SPARTON

SPARTON TECHNOLOGY

Site

CERTIFIED MAIL RETURN RECEIPT REQUESTED

December 31, 1997

Mr. Benito Garcia
Bureau Chief
Hazardous And Radioactive Materials Bureau
New Mexico Environment Department
PO Box 26110
Santa Fe, New Mexico 87505

JAN 1998

Re: 1996 Annual Ground-Water Report

Dear Mr. Garcia:

Enclosed is Sparton Technology's Inc. 1997 Annual Ground-Water Report for our Coors Rd. Facility. This report is prepared in response to HWMR-5, Part IV, Section 265.94(a)(2)(ii) and (iii), and is compiled on forms provided by your office.

The Monitoring Well Identification Report Form has been modified to include the surveyed Measuring Point Elevation (MPE). This surveyed elevation is located on the wellhead vault or outer protective casing. The MPE is the reference point for all elevation data presented in this report.

If you have any questions please contact me at (505) 892-5300. Thank you for your attention to this matter.

Sincerely,
SPARTON TECHNOLOGY, INC.

Richard D. Mico

Richard D. Mico
Vice President and General Manager

enclosure:

cc: (without enclosure)
Mr. J. Appel
Mr. J. Wakefield

005194

Sparton Technology, Inc. □ *4901 Rockaway Blvd., SE* □ *Rio Rancho, NM 87124-4469* □ *(505) 892-5300* □ *FAX (505) 892-5515*

SPARTON TECHNOLOGY, INC.

1997

ALTERNATE GROUNDWATER MONITORING PROGRAM

ANNUAL DATA SUMMARY

FACILITY ADDRESS

SPARTON TECHNOLOGY, INC.
9621 COORS RD. NW
ALBUQUERQUE, NM 87114

MAILING ADDRESS

SPARTON TECHNOLOGY, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124-4469

005195

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SECTION 1

MW-9

ANNUAL SUMMARY AND QUARTERLY REPORTS

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

COUNTY BERNALILLO

WELL NUMBER MW-9

WELL LOCATION (LONGITUDE) 106° 39' 42.2" *1

WELL LOCATION (LATITUDE) 35° 11' 18.5" *1

AQUIFER NAME RIO GRANDE ALLUVIAL

AQUIFER CONFINED _____ UNCONFINED X

WELL INSTALLATION DATE 11/13/83

DRILLING METHOD HLWAG/HYDRT

INNER CASING DIAMETER 2.0

BOREHOLE DIAMETER 7.0

CASING MATERIAL PVC

METHOD OF DEVELOPMENT COMPR

ELEV BOTTOM OF BOREHOLE 4958.26

ELEV BOTTOM OF WELL CASING 4965.76

ELEV BOTTOM OF SCREENED INT 4970.76

ELEV OF TOP OF SCREENED INT. 4975.76

SURVEYED ELEV OF CASING TOP 5043.55 *2

SURVEYED MEASURING PT. ELEV. 5044.11 *3

DATE OF REPORT: 12-22-97 **SIGNATURE:** John M. Wakefield

NAME (TYPED) John M.Wakefield

*1 Scaled from USGS 15' quad.
*2 Not surveyed, measured from Surveyed Measuring Point Elevation.
*3 Surveyed Datum on well vault or outer protective casing.

b:wellid/bass

ANNUAL SUMMARY OF MONITOR WELL DATA FOR ASSESSMENT MONITORING

This form is for annual presentation of data by all facilities operating under interim status. [HWMR-5, Part VI, Section 265.93(f) and 265.4(b)].

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-09

SAMPLE DATES

02-04-97	4-24-97	08-20-97	10-23-97

PARAMETERS	UNITS	VALUE			
Elev. of G.Water	ft.	4973.16	4973.24	4973.33	4973.58
pH (Avg)	S.U.	7.5	7.7	7.7	7.5
Spec Cond (Avg)	umhos/cm	690	680	660	640
T.O.X. (Avg)	ug/1	570	450	540	430
T.O.C. (Avg)	mg/1	1.0	2.0	2.0	2.0
Chloride	mg/1			6	
Iron	ug/1				
Manganese	ug/1			20	
Phenols	ug/1				
Sodium	mg/1			64	
Sulfate	mg/1			100	
Turbidity	NTU				

APPENDIX IX PARAMETERS
MW-09

		SAMPLE DATES			
		02-04-97	4-24-97	08-20-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
1,1-Dichloroethene	ug/l	32	99	32	41
Trichloroethene	ug/l	550	580	390	500
1,1,1-Trichloroethane	ug/l	48	100	36	43
Tetrachloroethene	ug/l	2.0	2.5		2.3
Chloroform	ug/l	2.0	2.3		
1,1 Dichloroethane	ug/l	1.6	2.2		1.3
Methylene Chloride	ug/l	52	110 J	93	190
1,1,2-Trichloroethane	ug/l	0.8	0.8		0.2
Chromium, total	mg/L			<0.01	
Chromium, hexavalent	mg/L			<0.02	
Chromium, trivalent	mg/L			<0.02	
Boron	mg/L			1.4	
Nickel	mg/L			<0.02	
Nitrite-Nitrate Nitrogen	mg/L			<0.1	
Total Kjeldahl Nitrogen	mg/L			0.8	
Nitrate Nitrogen	mg/L			<0.1	
Nitrite Nitrogen	mg/L			<0.1	

DATE OF REPORT: 12/30/97

SIGNATURE: John M Wakefield

NAME (TYPED): John M. Wakefield

J = Compound of interest is present but below detection limits.

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FIRST QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-9 SAMPLE COLLECTION BY: DON R. BRIGGS

WELL DEPTH: 78.35 LABORATORY NAME: AEN

DATE SAMPLED: 2/4/97 LABORATORY SAMPLE I.D. #: 702307-02

TIME SAMPLED: 0859 DATE RECEIVED BY LAB: 2/4/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4973.16	2-4-97
Well Casing Volume	-------	gal.	1.21	2-4-97
Pump Rate	-------	gal./min.	0.06	2-4-97
Pump Period	72004	min.	61	2-4-97
Volume Evacuated	73675	gal.	3.60	2-4-97
Well Sampling Method	84077	--------	BLDRP	2-4-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.5	NA	2-5-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	690	1	2-7-97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	570	10	2-14-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1.0	2-10-97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 4-14-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-9

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	32	0.2	NA	2/5/97	8010
Trichloroethene	UG/L	550	0.3	NA	2/6/97	8010
1,1,1 Trichloroethane	UG/L	48	5.0	NA	2/5/97	8010
Tetrachloroethene	UG/L	2.0	0.5	NA	2/5/97	8010
Chloroform	UG/L	2.0	0.5	NA	2/4/97	8010
1,1 Dichloroethane	UG/L	1.6	0.3	NA	2/6/97	8010
1,1,2-Trichloroethane	UG/L	0.8	5.0	NA	2/5/97	8010
Methylene Chloride	UG/L	52	2.0	NA	2/5/97	

ND = Not Detected
NA = Not Applicable

005204

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. SECOND QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-9 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 78.35 LABORATORY NAME: AEN

DATE SAMPLED: 4/24/97 LABORATORY SAMPLE I.D. #: 704386-04

TIME SAMPLED: 1016 DATE RECEIVED BY LAB: 4/24/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4973.24	4-24-97
Well Casing Volume	--------	gal.	1.22	4-24-97
Pump Rate	--------	gal./min.	0.09	4-24-97
Pump Period	72004	min.	44	4-24-97
Volume Evacuated	73675	gal.	3.7	4-24-97
Well Sampling Method	84077	--------	BLDRP	4-24-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.67	NA	4-25-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	680	1	5-6-97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	450	10	5-20-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1.0	5-7-97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-16-97

SIGNATURE: John M Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-9

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	99	0.2	NA	4/28/97	8010
Trichloroethene	UG/L	580	0.3	NA	4/29/97	8010
1,1,1 Trichloroethane	UG/L	100	1.0	NA	4/28/97	8010
Tetrachloroethene	UG/L	2.5	0.5	NA	4/27/97	8010
Chloroform	UG/L	2.3	0.5	NA	4/27/97	8010
1,1 Dichloroethane	UG/L	2.2	0.3	NA	4/29/97	8010
1,1,2-Trichloroethane	UG/L	0.8	0.2	NA	4/27/97	8010
Methylene Chloride	UG/L	110 J	2.0	NA	4/29/97	8010

ND = Not Detected
NA = Not Applicable

J = Compound of interest is present but below detection limit of 200 ug/L at an 1:100 dilution.

005208

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-9 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 78.35 LABORATORY NAME: AEN

DATE SAMPLED: 8-20-97 LABORATORY SAMPLE I.D. #: 708371-05

TIME SAMPLED: 1525 DATE RECEIVED BY LAB: 8-20-97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4973.33	8-20-97
Well Casing Volume	--------	gal.	1.23	8-20-97
Pump Rate	--------	gal./min.	0.08	8-20-97
Pump Period	72004	min.	50	8-20-97
Volume Evacuated	73675	gal.	3.7	8-20-97
Well Sampling Method	84077	--------	BLDRP	8-20-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.7	NA	8-21-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	660	1	8-29-97	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	540	10	8-27-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1.0	8-28-97	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	6	1	8-26-97	325.3
Iron	01045	ug/l				
Manganese	71883	ug/l	20	10	9-8-97	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	64	0.2	9-8-97	200.7
Sulfate	00945	mg/l	100	50	8-27-97	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 10-8-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

005211

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-9

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	32	5.0	NA	8-21-97	8240
Trichloroethene	UG/L	390	5.0	NA	8-21-97	8240
1,1,1 Trichloroethane	UG/L	36	5.0	NA	8-21-97	8240
Methylene Chloride	UG/L	93	5.0	NA	8-21-97	8240
Chromium, total	mg/L	<0.01	0.01	NA	9-8-97	200.7
Chromium, hexavalent	mg/L	<0.02	0.02	NA	8-20-97	SM 3500 CR D
Chromium, trivalent	mg/L	<0.02	0.02	NA	9-8-97	
Boron	mg/L	1.4	0.09	NA	9-8-97	200.7
Nickel	mg/L	<0.02	0.02	NA	9-8-97	200.7
Nitrate Nitrogen	mg/L	<0.1	0.1	NA	8-27-97	353.2-354.1
Total Kjeldahl Nitrogen	mg/L	0.8	0.5	NA	8-29-97	351.2
Nitrite-Nitrate Nitrogen	mg/L	<0.1	0.1	NA	8-27-97	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	8-21-97	354.1

ND = Not Detected
NA = Not Applicable

005212

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FOURTH QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-9 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 78.35 LABORATORY NAME: AEN

DATE SAMPLED: 10/23/97 LABORATORY SAMPLE I.D. #: 710410-04

TIME SAMPLED: 1025 DATE RECEIVED BY LAB: 10/23/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4973.58	10/23/97
Well Casing Volume	--------	gal.	1.28	10/23/97
Pump Rate	--------	gal./min.	0.09	10/23/97
Pump Period	72004	min.	47	10/23/97
Volume Evacuated	73675	gal.	4.0	10/23/97
Well Sampling Method	84077	--------	BLDRP	10/23/97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.5	N/A	10/24/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	640	1	11/4/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	430	10	10/31/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1.0	11/4/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

005214

GROUND WATER QUALITY PARAMETERS MW-9

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	N/A			
Iron	01045	ug/l	N/A			
Manganese	71883	ug/l	N/A			
Phenols	32730	ug/l	N/A			
Sodium	00929	mg/l	N/A			
Sulfate	00945	mg/l	N/A			
Turbidity		NTU	N/A			

DATE OF THIS REPORT: 12-12-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-9

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	41	0.2	N/A	11/4/97	8010
Trichloroethene	UG/L	500	0.3	N/A	11/5/97	8010
1,1,1 Trichloroethane	UG/L	43	1.0	N/A	11/4/97	8010
Tetrachloroethene	UG/L	2.3	0.5	N/A	11/4/97	8010
Chloroform	UG/L	2.2	0.5	N/A	11/4/97	8010
1,1 Dichloroethane	UG/L	1.3	0.3	N/A	11/4/97	8010
1,1,2-Trichloroethane	UG/L	0.2	0.2	N/A	11/4/97	8010
Methylene Chloride	UG/L	190	2.0	N/A	11/5/97	8010

N/D = Not Detected
N/A = Not Applicable

SECTION 2

MW-14

ANNUAL SUMMARY AND QUARTERLY REPORTS

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

COUNTY BERNALILLO

WELL NUMBER MW-14

WELL LOCATION (LONGITUDE) 106° 39' 45.8" *1

WELL LOCATION (LATITUDE) 35° 11' 20.1" *1

AQUIFER NAME RIO GRANDE ALLUVIAL

AQUIFER CONFINED _____ UNCONFINED X

WELL INSTALLATION DATE 08/24/84

DRILLING METHOD HYDRT

INNER CASING DIAMETER 2.0

BOREHOLE DIAMETER 8.0

CASING MATERIAL PVC

METHOD OF DEVELOPMENT COMPR

ELEV BOTTOM OF BOREHOLE 4910.24

ELEV BOTTOM OF WELL CASING 4969.74 *2

ELEV BOTTOM OF SCREENED INT 4969.74 *2

ELEV OF TOP OF SCREENED INT. 4979.24

SURVEYED ELEV OF CASING TOP 5041.86 *3

SURVEYED MEASURING PT. ELEV. 5043.04 *4

DATE OF REPORT: 12-22-97 **SIGNATURE:** John M. Wakefield

NAME (TYPED) John M.Wakefield

*1 Scaled from USGS 15' quad.
*2 Plugged back to this depth on 1/14/88.
*3 Not surveyed, measured from Surveyed Measuring Point Elevation.
*4 Surveyed Datum on well vault or outer protective casing.

b:wellid/bass

ANNUAL SUMMARY OF MONITOR WELL DATA FOR ASSESSMENT MONITORING

This form is for annual presentation of data by all facilities operating under interim status. [HWMR-5, Part VI, Section 265.93(f) and 265.4(b)].

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-14

SAMPLE DATES

		02-04-97	04-24-97	08-21-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
Elev. of G.Water	ft.	4971.69	4971.97	4971.64	4972.06
pH (Avg)	S.U.	8.3	8.2	8.4	8.0
Spec Cond (Avg)	umhos/cm	630	730	740	780
T.O.X. (Avg)	ug/1	200	780	7800	470
T.O.C. (Avg)	mg/1	2.0	2.0	2.0	1.0
Chloride	mg/1			32	
Iron	ug/1				
Manganese	ug/1			<10	
Phenols	ug/1				
Sodium	mg/1			56	
Sulfate	mg/1			150	
Turbidity	NTU				

APPENDIX IX PARAMETERS
MW-14

SAMPLE DATES

		02-04-97	04-24-97	08-21-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
1,1-Dichloroethene	ug/l	12	33	29	34
Trichloroethene	ug/l	260	570	530	860
1,1,1-Trichloroethane	ug/l	3.9	8.1	6.6	9.1
Tetrachloroethene	ug/l	1.1	1.9		1.7
Chloroform	ug/l	1.0	2.7		3.5
cis-1,2-Dichloroethene	ug/l	0.3			
1,1,2-Trichloroethane	ug/l	0.5	0.9		0.6
Chromium, total	mg/L			0.68	
Chromium, hexavalent	mg/L			0.6	
Chromium, trivalent	mg/L			0.08	
Boron	mg/L			0.91	
Nickel	mg/L			<0.02	
Nitrite-Nitrate Nitrogen	mg/L			2.4	
Total Kjeldahl Nitrogen	mg/L			<0.5	
Nitrate Nitrogen	mg/L			2.4	
Nitrite Nitrogen	mg/L			<0.1	

DATE OF REPORT: 12/30/97

SIGNATURE: John M. Wakefield

NAME (TYPED): John M. Wakefield

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FIRST QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW- 14 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 73.08 LABORATORY NAME: AEN

DATE SAMPLED: 2/4/97 LABORATORY SAMPLE I.D. #: 702307-01

TIME SAMPLED: 0838 DATE RECEIVED BY LAB: 2/4/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.69	2/4/97
Well Casing Volume	------	gal.	0.28	2/4/97
Pump Rate	------	gal./min.	0.03	2/4/97
Pump Period	72004	min.	34	2/4/97
Volume Evacuated	73675	gal.	1.0	2/4/97
Well Sampling Method	84077	------	BLDRP	2/4/97
Sampler Material	------	------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005221

INDICATOR PARAMETERS

MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.3	NA	2/5/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	630	1	2/7/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	200	10	2/14/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1.0	2/10/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 4-14-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-14

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	12	0.2	NA	2/5/97	8010
Trichloroethene	UG/L	260	0.3	NA	2/6/97	8010
1,1,1 Trichloroethane	UG/L	3.9	1.0	NA	2/5/97	8010
Tetrachloroethene	UG/L	1.1	0.5	NA	2/5/97	8010
Chloroform	UG/L	1.0	0.5	NA	2/5/97	8010
1,1,2-Trichloroethane	UG/L	0.5	0.2	NA	2/5/97	8010
Cis-1,2-DCE	UG/L	0.3	0.2	NA	2/5/97	8010

ND = Not Detected
NA = Not Applicable

005224

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. SECOND QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-14 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 73.08 LABORATORY NAME: AEN

DATE SAMPLED: 4/24/97 LABORATORY SAMPLE I.D. #: 704386-03

TIME SAMPLED: 1042 DATE RECEIVED BY LAB: 4/24/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.97	4-24-97
Well Casing Volume	--------	gal.	0.33	4-24-97
Pump Rate	--------	gal./min.	0.03	4-24-97
Pump Period	72004	min.	38	4-24-97
Volume Evacuated	73675	gal.	1.0	4-24-97
Well Sampling Method	84077	--------	BLDRP	4-24-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.22	NA	4-25-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	730	1	5-6-97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	780	10	5-20-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1.0	5-7-97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-17-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-14

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	33	0.2	NA	5/2/97	8010
Trichloroethene	UG/L	570	0.3	NA	5/5/97	8010
1,1,1 Trichloroethane	UG/L	8.1	1.0	NA	4/29/97	8010
Tetrachloroethene	UG/L	1.9	0.3	NA	4/29/97	8010
Chloroform	UG/L	2.7	0.5	NA	4/26/97	8010
1,1,2-Trichloroethane	UG/L	0.9	0.2	NA	4/29/97	8010

ND -- Not Detected
NA - Not Applicable

005228

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-14 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 73.08 LABORATORY NAME: AEN

DATE SAMPLED: 8-21-97 LABORATORY SAMPLE I.D. #: 708376-01

TIME SAMPLED: 1500 DATE RECEIVED BY LAB: 8-21-97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.64	8-21-97
Well Casing Volume	--------	gal.	0.27	8-21-97
Pump Rate	--------	gal./min.	0.03	8-21-97
Pump Period	72004	min.	33	8-21-97
Volume Evacuated	73675	gal.	0.9	8-21-97
Well Sampling Method	84077	--------	BLDRP	8-21-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.4	NA	8-22-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	740	1	8-29-97	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	7800	10000	9-5-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1	9-3-97	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	32	1	8-26-97	325.3
Iron	01045	ug/l				
Manganese	71883	ug/l	<10	10	9-8-97	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	56	0.2	9-9-97	200.7
Sulfate	00945	mg/l	150	50	8-27-97	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 10-8-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-14

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	29	1.0	NA	8-26-97	8240
Trichloroethene	UG/L	530	1.0	NA	8-26-97	8240
1,1,1 Trichloroethane	UG/L	6.6	1.0	NA	8-26-97	8240
Chromium, total	mg/L	0.68	0.01	NA	9-4-97	200.7
Chromium, hexavalent	mg/L	0.6	0.02	NA	8-22-97	SM 3500 CR D
Chromium, trivalent	mg/L	0.08	0.02	NA	9-4-97	
Boron	mg/L	0.91	0.09	NA	9-8-97	200.7
Nickel	mg/L	<0.02	0.02	NA	9-8-97	200.7
Nitrate Nitrogen	mg/L	2.4	0.1	NA	8-27-97	353.2-354.1
Total Kjeldahl Nitrogen	mg/L	<0.5	0.5	NA	8-29-97	351.2
Nitrite-Nitrate Nitrogen	mg/L	2.4	0.1	NA	8-27-97	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	8-22-97	354.1

ND = Not Detected
NA = Not Applicable

005232

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FOURTH QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-14 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 73.08 LABORATORY NAME: AEN

DATE SAMPLED: 10/23/97 LABORATORY SAMPLE I.D. #: 710410-03

TIME SAMPLED: 1043 DATE RECEIVED BY LAB: 10/23/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.06	10/23/97
Well Casing Volume	--------	gal.	0.34	10/23/97
Pump Rate	--------	gal./min.	0.02	10/23/97
Pump Period	72004	min.	62	10/23/97
Volume Evacuated	73675	gal.	1.1	10/23/97
Well Sampling Method	84077	--------	BLDRP	10/23/97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.0	N/A	10/24/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	780	1	11/4/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	470	10	10/31/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1.0	11/4/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-14

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	N/A			
Iron	01045	ug/l	N/A			
Manganese	71883	ug/l	N/A			
Phenols	32730	ug/l	N/A			
Sodium	00929	mg/l	N/A			
Sulfate	00945	mg/l	N/A			
Turbidity		NTU	N/A			

DATE OF THIS REPORT: 12-12-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-14

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	34	0.2	N/A	11/4/97	8010
Trichloroethene	UG/L	860	0.3	N/A	11/4/97	8010
1,1,1 Trichloroethane	UG/L	9.1	1.0	N/A	11/4/97	8010
Tetrachloroethene	UG/L	1.7	0.5	N/A	11/4/97	8010
Chloroform	UG/L	3.5	0.5	N/A	11/4/97	8010
1,1,2-Trichloroethane	UG/L	0.6	0.2	N/A	11/4/97	8010

N/D = Not Detected
N/A = Not Applicable

005236

SECTION 3

MW-15

ANNUAL SUMMARY AND QUARTERLY REPORTS

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

COUNTY BERNALILLO

WELL NUMBER MW-15

WELL LOCATION (LONGITUDE) 106° 39' 42.6" *1

WELL LOCATION (LATITUDE) 35° 11' 23.0" *1

AQUIFER NAME RIO GRANDE ALLUVIAL

AQUIFER CONFINED _____ UNCONFINED X

WELL INSTALLATION DATE 08/23/84

DRILLING METHOD HYDRT

INNER CASING DIAMETER 2.0

BOREHOLE DIAMETER 8.0

CASING MATERIAL PVC

METHOD OF DEVELOPMENT COMPR

ELEV BOTTOM OF BOREHOLE 4908.32

ELEV BOTTOM OF WELL CASING 4974.32 *2

ELEV BOTTOM OF SCREENED INT 4974.32 *2

ELEV OF TOP OF SCREENED INT. 4984.32

SURVEYED ELEV OF CASING TOP 5047.15 *3

SURVEYED MEASURING PT. ELEV. 5047.49 *4

DATE OF REPORT: 12-22-97 **SIGNATURE:** John M. Wakefield

NAME (TYPED) John M.Wakefield

*1 Scaled from USGS 15' quad.
*2 Plugged back to this depth on 1/15/88.
*3 Not surveyed, measured from Surveyed Measuring Point Elevation.
*4 Surveyed Datum on well vault or outer protective casing.

b:wellid/bass

ANNUAL SUMMARY OF MONITOR WELL DATA FOR ASSESSMENT MONITORING

This form is for annual presentation of data by all facilities operating under interim status. [HWMR-5, Part VI, Section 265.93(f) and 265.4(b)].

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-15

SAMPLE DATES

02-04-97	04-24-97	08-25-97	10-23-97

PARAMETERS	UNITS	VALUE			
Elev. of G.Water	ft.	No H_2O	No H_2O	No H_2O	No H_2O
pH (Avg)	S.U.				
Spec Cond (Avg)	umhos/cm				
T.O.X. (Avg)	ug/1				
T.O.C. (Avg)	mg/1				
Chloride	mg/1				
Iron	ug/1				
Manganese	ug/1				
Phenols	ug/1				
Sodium	mg/1				
Sulfate	mg/1				
Turbidity	NTU				

APPENDIX IX PARAMETERS
MW-15

SAMPLE DATES

02-04-97	04-24-97	08-21-97	10-23-97

PARAMETERS	**UNITS**	**VALUE**			
1,1-Dichloroethene	ug/l	No H_2O	No H_2O	No H_2O	No H_2O
Trichloroethene	ug/l				
1,1,1-Trichloroethane	ug/l				
Tetrachloroethene	ug/l				
Chloroform	ug/l				
cis-1,2-Dichloroethene	ug/l				
1,1,2-Trichloroethane	ug/l				
Chromium, total	mg/L				
Chromium, hexavalent	mg/L				
Chromium, trivalent	mg/L				
Boron	mg/L				
Nickel	mg/L				
Nitrite-Nitrate Nitrogen	mg/L				
Total Kjeldahl Nitrogen	mg/L				
Nitrate Nitrogen	mg/L				
Nitrite Nitrogen	mg/L				

DATE OF REPORT: 12/30/97

SIGNATURE: John M. Wakefield

NAME (TYPED): John M. Wakefield

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FIRST QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-15 SAMPLE COLLECTION BY: NA

WELL DEPTH: 73.17 LABORATORY NAME: NA

DATE SAMPLED: 2/4/97 LABORATORY SAMPLE I.D. #: NA

TIME SAMPLED: NA DATE RECEIVED BY LAB: NA

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	No H_2O	2//4/97
Well Casing Volume	-------	gal.	1.40	NA
Pump Rate	-------	gal./min.	0.12	NA
Pump Period	72004	min.	38	NA
Volume Evacuated	73675	gal.	4.2	NA
Well Sampling Method	84077	-------	BLDRP	NA
Sampler Material	-------	-------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

GROUND WATER QUALITY PARAMETERS MW-15

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 4-14-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. SECOND QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-15 SAMPLE COLLECTION BY: N/A

WELL DEPTH: 73.17 LABORATORY NAME: AEN

DATE SAMPLED: N/A LABORATORY SAMPLE I.D. #: N/A

TIME SAMPLED: N/A DATE RECEIVED BY LAB: N/A

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	No H_2O	4-24-97
Well Casing Volume	-------	gal.	N/A	4-24-97
Pump Rate	-------	gal./min.	N/A	4-24-97
Pump Period	72004	min.	N/A	4-24-97
Volume Evacuated	73675	gal.	N/A	4-24-97
Well Sampling Method	84077	-------	BLDRP	4-24-97
Sampler Material	-------	-------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005243

GROUND WATER QUALITY PARAMETERS

MW-15

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-17-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-15 SAMPLE COLLECTION BY: N/A

WELL DEPTH: 73.17 LABORATORY NAME: N/A

DATE SAMPLED: 8-25-97 LABORATORY SAMPLE I.D. #: N/A

TIME SAMPLED: N/A DATE RECEIVED BY LAB: N/A

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	DRY	8-25-97
Well Casing Volume	--------	gal.		
Pump Rate	--------	gal./min.		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.		
Well Sampling Method	84077	--------	BLDRP	
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

GROUND WATER QUALITY PARAMETERS MW-15

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
			WELL IS DRY.			
Chloride	00940	mg/l	N/A			
Iron	01045	ug/l				
Manganese	71883	ug/l	N/A			
Phenols	32730	ug/l				
Sodium	00929	mg/l	N/A			
Sulfate	00945	mg/l	N/A			
Turbidity		NTU				

DATE OF THIS REPORT: 10-8-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FOURTH QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-15 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 73.17 LABORATORY NAME: AEN

DATE SAMPLED: 10/23/97 LABORATORY SAMPLE I.D. #: N/A

TIME SAMPLED: 1115 DATE RECEIVED BY LAB: N/A

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	No H_2O	10/23/97
Well Casing Volume	--------	gal.	N/A	N/A
Pump Rate	--------	gal./min.	N/A	N/A
Pump Period	72004	min.	N/A	N/A
Volume Evacuated	73675	gal.	N/A	N/A
Well Sampling Method	84077	--------	BLDRP	N/A
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

N/A = Not Applicable

GROUND WATER QUALITY PARAMETERS MW-15

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	N/A			
Iron	01045	ug/l	N/A			
Manganese	71883	ug/l	N/A			
Phenols	32730	ug/l	N/A			
Sodium	00929	mg/l	N/A			
Sulfate	00945	mg/l	N/A			
Turbidity		NTU	N/A			

DATE OF THIS REPORT: 12-12-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = Not Applicable

SECTION 4

MW-16

ANNUAL SUMMARY AND QUARTERLY REPORTS

005249

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

COUNTY BERNALILLO

WELL NUMBER MW-16

WELL LOCATION (LONGITUDE) 106° 39' 38.2" *1

WELL LOCATION (LATITUDE) 35° 11' 21.6" *1

AQUIFER NAME RIO GRANDE ALLUVIAL

AQUIFER CONFINED _____ UNCONFINED X

WELL INSTALLATION DATE 11/16/84

DRILLING METHOD HLWAG

INNER CASING DIAMETER 2.0

BOREHOLE DIAMETER 7.0

CASING MATERIAL PVC

METHOD OF DEVELOPMENT BAILD

ELEV BOTTOM OF BOREHOLE 4975.98

ELEV BOTTOM OF WELL CASING 4975.98

ELEV BOTTOM OF SCREENED INT 4975.98

ELEV OF TOP OF SCREENED INT. 4980.98

SURVEYED ELEV OF CASING TOP 5047.21 *2

SURVEYED MEASURING PT. ELEV. 5047.50 *3

DATE OF REPORT: 12-22-97 **SIGNATURE:** John M. Wakefield

NAME (TYPED) John M.Wakefield

*1 Scaled from USGS 15' quad.
*2 Not surveyed, measured from Surveyed Measuring Point Elevation.
*3 Surveyed Datum on well vault or outer protective casing.

b:wellid/bass

ANNUAL SUMMARY OF MONITOR WELL DATA FOR ASSESSMENT MONITORING

This form is for annual presentation of data by all facilities operating under interim status. [HWMR-5, Part VI, Section 265.93(f) and 265.4(b)].

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-16

SAMPLE DATES

2-4-97	4-24-97	8-21-97	10-23-97

PARAMETERS	UNITS	VALUE			
Elev. of G.Water	ft.	4978.03	4978.62	4978.61	4979.03
pH (Avg)	S.U.	7.8	7.98	8.1	8.0
Spec Cond (Avg)	umhos/cm	1200	1000	970	930
T.O.X. (Avg)	ug/1	110	3600	24000	1300
T.O.C. (Avg)	mg/1	1.0	2.0	2	1.0
Chloride	mg/1			28	
Iron	ug/1				
Manganese	ug/1			130	
Phenols	ug/1				
Sodium	mg/1			52	
Sulfate	mg/1			100	
Turbidity	NTU				

APPENDIX IX PARAMETERS
MW-16

		SAMPLE DATES			
		2-4-97	4-24-97	8-21-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
1,1-Dichloroethene	ug/l	130	82	<100	64
Trichloroethene	ug/l	6000	5300	3000	3900
1,1,1-Trichloroethane	ug/l	1400	1200	520	700
Tetrachloroethene	ug/l	74	90		44
Chloroform	ug/l	4.6	3.0		2.7
1,1 Dichloroethane	ug/l	2.6	2.1		0.7
Chlorobenzene	ug/l	19			
cis-1,2-Dichloroethene	ug/l	0.3	0.2		
1,1,2-Trichloroethane	ug/l	8.6			4.6
Chromium, total	mg/L			0.26	
Chromium, hexavalent	mg/L			0.30	
Chromium, trivalent	mg/L			<0.02	
Boron	mg/L			0.28	
Nickel	mg/L			<0.02	
Nitrite-Nitrate Nitrogen	mg/L			<0.1	
Total Kjeldahl Nitrogen	mg/L			55	
Nitrate Nitrogen	mg/L			<0.1	
Nitrite Nitrogen	mg/L			0.1	
Calcium	mg/L			18	
Potassium	mg/L			16	
Magnesium	mg/L			0.13	
Total Dissolved Solids	mg/L			410	
Alkalinity Total	mg/L			310	
Bicarbonate $CaCO_3$	mg/L			310	
Carbonate $CaCO_3$	mg/L			4	
CO_2 Free as $CaCO_3$	mg/L			5	
Hydroxide as $CaCO_3$	mg/L			<1	
Calcium Hardness	mg/L			45	
Magnesium Hardness	mg/L			8.0	
Total Hardness	mg/L			53	

DATE OF REPORT: 12/23/97

SIGNATURE: John M. Wakefield

NAME (TYPED): John M. Wakefield

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FIRST QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-16 SAMPLE COLLECTION BY: DON R. BRIGGS

WELL DEPTH: 71.52 LABORATORY NAME: AEN

DATE SAMPLED: 2/4/97 LABORATORY SAMPLE I.D. #: 702307-05

TIME SAMPLED: 1054 DATE RECEIVED BY LAB: 2/4/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.03	2/4/97
Well Casing Volume	--------	gal.	0.33	2/4/97
Pump Rate	--------	gal./min.	0.04	2/4/97
Pump Period	72004	min.	36	2/4/97
Volume Evacuated	73675	gal.	1.0	2/4/97
Well Sampling Method	84077	--------	BLDRP	2/4/97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005253

INDICATOR PARAMETERS MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.8	NA	2/5/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	1200	1	2/7/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	110	10	2/18/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1.0	2/11/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 4-14-97

SIGNATURE: John M Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-16

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	130	20	NA	2/5/97	8010
Trichloroethene	UG/L	6000	0.3	NA	2/6/97	8010
1,1,1 Trichloroethane	UG/L	1400	1.0	NA	2/5/97	8010
Tetrachloroethene	UG/L	74	0.5	NA	2/5/97	8010
Chlorobenzene	UG/L	19	0.5	NA	2/5/97	8010
Chloroform	UG/L	4.6	0.5	NA	2/5/97	8010
1,1 Dichloroethane	UG/L	2.6	0.3	NA	2/6/97	8010
1,1,2-Trichloroethane	UG/L	8.6	0.2	NA	2/5/97	8010
Cis-1,2-DCE	UG/L	0.3	0.2	NA	2/5/97	8010

ND = Not Detected
NA = Not Applicable

005256

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. SECOND QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-16 SAMPLE COLLECTION BY: JOHN M. WAKEFIELD

WELL DEPTH: 71.52 LABORATORY NAME: AEN

DATE SAMPLED: 4/24/97 LABORATORY SAMPLE I.D. #: 704386-07

TIME SAMPLED: 1522 DATE RECEIVED BY LAB: 4/24/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.62	4-24-97
Well Casing Volume	--------	gal.	0.43	4-24-97
Pump Rate	--------	gal./min.	0.01	4-24-97
Pump Period	72004	min.	132	4-24-97
Volume Evacuated	73675	gal.	1.30	4-24-97
Well Sampling Method	84077	--------	BLDRP	4-24-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.98	NA	4-25-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	1000	1	5-6-97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	3600	10	5-21-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1.0	5-7-97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-17-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-16

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	82	0.2	NA	5/2/97	8010
Trichloroethene	UG/L	5300	0.3	NA	5/7/97	8010
1,1,1 Trichloroethane	UG/L	1200	1.0	NA	5/2/97	8010
Tetrachloroethene	UG/L	90	0.5	NA	5/2/97	8010
Chloroform	UG/L	3.0	0.5	NA	4/29/97	8010
1,1 Dichloroethane	UG/L	2.1	0.3	NA	4/29/97	8010
cis - 1,2 - Dichloroethene	UG/L	0.2	0.2	NA	4/29/97	8010

ND = Not Detected
NA = Not Applicable

005260

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-16 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 71.52 LABORATORY NAME: AEN

DATE SAMPLED: 8-21-97 LABORATORY SAMPLE I.D. #: 708375-05

TIME SAMPLED: 1336 DATE RECEIVED BY LAB: 8-21-97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.61	8-21-97
Well Casing Volume	--------	gal.	0.43	8-21-97
Pump Rate	--------	gal./min.	0.01	8-21-97
Pump Period	72004	min.	104	8-21-97
Volume Evacuated	73675	gal.	1.4	8-21-97
Well Sampling Method	84077	--------	BLDRP	8-21-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.1	NA	8-26-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	970	1	8-29-97	
	00095	umhos/cm				120.1/2510E
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	24,000	10,000	9-5-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1	9-3-97	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE
* pH analysis out of hold time.

GROUND WATER QUALITY PARAMETERS

MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	28	1	8-26-97	325.3
Iron	01045	ug/l				
Manganese	71883	ug/l	130	10	9-8-97	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	52	0.2	9-9-97	200.7
Sulfate	00945	mg/l	100	50	8-27-97	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 10-8-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-16

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	<100	100	NA	8-26-97	8240
Trichloroethene	UG/L	3000	100	NA	8-26-97	8240
1,1,1 Trichloroethane	UG/L	520	100	NA	8-26-97	8240
Chromium, total	mg/L	0.26	0.01	NA	9-4-97	200.7
Chromium, hexavalent	mg/L	0.30	0.02	NA	8-22-97	SM 3500 CR D
Chromium, trivalent	mg/L	<0.02	0.02	NA	9-4-97	N/A
Boron	mg/L	0.28	0.09	NA	9-8-97	200.7
Nickel	mg/L	<0.02	0.02	NA	9-8-97	200.7
Nitrate Nitrogen	mg/L	<0.1	0.1	NA	8-27-97	353.2 - 354.1
Total Kjeldahl Nitrogen	mg/L	55	2.5	NA	8-29-97	351.2
Nitrite-Nitrate Nitrogen	mg/L	<0.1	0.1	NA	8-27-97	353.2
Nitrite Nitrogen	mg/L	0.1	0.1	NA	8-22-97	354.1

ND = Not Detected
NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-16

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
Calcium	mg/L	18	12	NA	9-8-97	200.7
Potassium	mg/L	16	0.8	NA	9-8-97	200.7
Magnesium	mg/L	0.13	0.01	NA	9-8-97	200.7
Total Dissolved Solids	mg/L	410	5	NA	8-26-97	160.1
Alkalinity Total	mg/L	310	1	NA	8-27-97	2320 B
Bicarbonate $CaCO_3$	mg/L	310	1	NA	8-27-97	2330 B
Carbonate $CaCO_3$	mg/L	4	1	NA	8-27-97	2330 B
CO_2 Free as $CaCO_3$	mg/L	5	1	NA	8-27-97	NA
Hydroxide as $CaCO_3$	mg/L	<1	1	NA	8-27-97	2330 B
Calcium Hardness	mg/L	45	2	NA	9-8-97	200.7
Magnesium Hardness	mg/L	8.0	0.8	NA	9-8-97	200.7
Total Hardness	mg/L	53	NA	NA	9-8-97	NA

ND = Not Detected
NA = Not Applicable

005265

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FOURTH QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-16 SAMPLE COLLECTION BY: JOHN M. WAKEFIELD

WELL DEPTH: 71.52 LABORATORY NAME: AEN

DATE SAMPLED: 10/23/97 LABORATORY SAMPLE I.D. #: 710410-08

TIME SAMPLED: 1235 DATE RECEIVED BY LAB: 10/23/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4979.03	10/23/97
Well Casing Volume	--------	gal.	0.50	10/23/97
Pump Rate	--------	gal./min.	0.03	10/23/97
Pump Period	72004	min.	74	10/23/97
Volume Evacuated	73675	gal.	1.5	10/23/97
Well Sampling Method	84077	--------	BLDRP	10/23/97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.0	N/A	10/24/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	930	1	11/4/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	1300	10	11/4/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1.0	11/4/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

005267

GROUND WATER QUALITY PARAMETERS

MW-16

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	N/A			
Iron	01045	ug/l	N/A			
Manganese	71883	ug/l	N/A			
Phenols	32730	ug/l	N/A			
Sodium	00929	mg/l	N/A			
Sulfate	00945	mg/l	N/A			
Turbidity		NTU	N/A			

DATE OF THIS REPORT: 12-12-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-16

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	64	0.2	N/A	11/5/97	8010
Trichloroethene	UG/L	3900	0.3	N/A	11/5/97	8010
1,1,1 Trichloroethane	UG/L	700	1.0	N/A	11/5/97	8010
Tetrachloroethene	UG/L	44	0.5	N/A	11/4/97	8010
Chloroform	UG/L	2.7	0.5	N/A	11/4/97	8010
1,1 Dichloroethane	UG/L	0.7	0.3	N/A	11/4/97	8010
1,1,2-Trichloroethane	UG/L	4.6	0.2	N/A	11/4/97	8010

N/D = Not Detected
N/A = Not Applicable

005269

SECTION 5

MW-19

ANNUAL SUMMARY AND QUARTERLY REPORTS

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

COUNTY BERNALILLO

WELL NUMBER MW-19

WELL LOCATION (LONGITUDE) 106° 39' 42.4" *1

WELL LOCATION (LATITUDE) 35° 11' 20.5" *1

AQUIFER NAME RIO GRANDE ALLUVIAL

AQUIFER CONFINED _____ UNCONFINED X

WELL INSTALLATION DATE 09/24/86

DRILLING METHOD HYDRT

INNER CASING DIAMETER 4.0

BOREHOLE DIAMETER 7.9

CASING MATERIAL PVC

METHOD OF DEVELOPMENT COMPR

ELEV BOTTOM OF BOREHOLE 4932.32

ELEV BOTTOM OF WELL CASING 4934.82

ELEV BOTTOM OF SCREENED INT 4934.82

ELEV OF TOP OF SCREENED INT. 4944.82

SURVEYED ELEV OF CASING TOP 5045.48 *2

SURVEYED MEASURING PT. ELEV. 5046.25 *3

DATE OF REPORT: 12-22-97 **SIGNATURE:** John M. Wakefield

NAME (TYPED) John M.Wakefield

*1 Scaled from USGS 15' quad.
*2 Not surveyed, measured from Surveyed Measuring Point Elevation.
*3 Surveyed Datum on well vault or outer protective casing.

b:wellid/bass

ANNUAL SUMMARY OF MONITOR WELL DATA FOR ASSESSMENT MONITORING

This form is for annual presentation of data by all facilities operating under interim status. [HWMR-5, Part VI, Section 265.93(f) and 265.4(b)].

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-19

SAMPLE DATES

		02-04-97	04-24-97	08-20-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
Elev. of G.Water	ft.	4972.33	4972.33	4972.24	4972.58
pH (Avg)	S.U.	7.4	7.6	7.6	8.0
Spec Cond (Avg)	umhos/cm	740	740	750	730
T.O.X. (Avg)	ug/1	190	10.0	30	10
T.O.C. (Avg)	mg/1	1.0	1.0	<1.0	1.0
Chloride	mg/1			19	
Iron	ug/1				
Manganese	ug/1			10	
Phenols	ug/1				
Sodium	mg/1			52	
Sulfate	mg/1			120	
Turbidity	NTU				

APPENDIX IX PARAMETERS
MW-19

SAMPLE DATES

		02-04-97	04-24-97	08-20-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
1,1-Dichloroethene	ug/l	<0.2	0.6	1.0	0.8
Trichloroethene	ug/l	6.4	9.4	13	16
1 ,1,1-Trichloroethane	ug/l			<1.0	
Chromium, total	mg/L			<0.01	
Chromium, hexavalent	mg/L			<0.02	
Chromium, trivalent	mg/L			<0.02	
Boron	mg/L			0.13	
Nickel	mg/L			<0.02	
Nitrite-Nitrate Nitrogen	mg/L			<0.5	
Total Kjeldahl Nitrogen	mg/L			3.7	
Nitrate Nitrogen	mg/L			3.7	
Nitrite Nitrogen	mg/L			<0.1	

DATE OF REPORT: 12/30/97

SIGNATURE: John M. Wakefield

NAME (TYPED): John M. Wakefield

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FIRST QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-19 SAMPLE COLLECTION BY: DON R. BRIGGS

WELL DEPTH: 111.43 LABORATORY NAME: AEN

DATE SAMPLED: 2/4/97 LABORATORY SAMPLE I.D. #: 702307-06

TIME SAMPLED: 1317 DATE RECEIVED BY LAB: 2/4/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.33	2/4/97
Well Casing Volume	-------	gal.	24.50	2/4/97
Pump Rate	-------	gal./min.	0.70	2/4/97
Pump Period	72004	min.	109	2/4/97
Volume Evacuated	73675	gal.	76	2/4/97
Well Sampling Method	84077	-------	BLDRP	2/4/97
Sampler Material	-------	-------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005274

INDICATOR PARAMETERS

MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.4	NA	2/5/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	740	1	2/7/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	190	10	2/18/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	ND	1.0	2/11/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 4-14-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-19

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	<0.2	0.2	NA	2/5/97	8010
Trichloroethene	UG/L	6.4	0.3	NA	2/5/97	8010

ND = Not Detected
NA = Not Applicable

0052777

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. SECOND QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-19 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 111.43 LABORATORY NAME: AEN

DATE SAMPLED: 4/24/97 LABORATORY SAMPLE I.D. #: 704386-01

TIME SAMPLED: 0918 DATE RECEIVED BY LAB: 4/24/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.33	4-24-97
Well Casing Volume	--------	gal.	24.49	4-24-97
Pump Rate	--------	gal./min.	0.82	4-24-97
Pump Period	72004	min.	100	4-24-97
Volume Evacuated	73675	gal.	76.5	4-24-97
Well Sampling Method	84077	--------	BLDRP	4-24-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005278

INDICATOR PARAMETERS

MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Ph	00400	S.U.	7.57	NA	4-25-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	740	1	5-6-97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	10.0	10	5-20-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1.0	5-7-97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-17-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-19

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	0.6	0.2	NA	4/26/97	8010
Trichloroethene	UG/L	9.4	0.3	NA	4/26/97	8010

ND = Not Detected
NA = Not Applicable

005281

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-19 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 111.43 LABORATORY NAME: AEN

DATE SAMPLED: 8-20-97 LABORATORY SAMPLE I.D. #: 708371-01

TIME SAMPLED: 1417 DATE RECEIVED BY LAB: 8-20-97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.24	8-20-97
Well Casing Volume	--------	gal.	24.43	8-20-97
Pump Rate	--------	gal./min.	0.78	8-20-97
Pump Period	72004	min.	106	8-20-97
Volume Evacuated	73675	gal.	78.0	8-20-97
Well Sampling Method	84077	--------	BLDRP	8-20-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005282

INDICATOR PARAMETERS MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.6	NA	8-21-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	750	1	8-29-97	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	30	10	8-27-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	ND	1	8-28-97	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	19	1	8-26-97	325.3
Iron	01045	ug/l				
Manganese	71883	ug/l	10	10	9-8-97	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	52	0.2	9-8-97	200.7
Sulfate	00945	mg/l	120	50	8-27-97	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 10-8-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-19

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	1.0	1.0	NA	8-25-97	8240
Trichloroethene	UG/L	13	1.0	NA	8-25-97	8240
1,1,1 Trichloroethane	UG/L	<1.0	1.0	NA	8-25-97	8240
Chromium, total	mg/L	<0.01	0.01	NA	9-8-97	200.7
Chromium, hexavalent	mg/L	<0.02	0.02	NA	8-20-97	SM 3500 CR D
Chromium, trivalent	mg/L	<0.02	0.02	NA	9-8-97	
Boron	mg/L	0.13	0.09	NA	9-8-97	200.7
Nickel	mg/L	<0.02	0.02	NA	9-8-97	200.7
Nitrate as Nitrogen	mg/L	3.7	0.1	NA	8-27-97	353.2 - 354.1
Total Kjeldahl Nitrogen	mg/L	<0.5	0.5	NA	8-29-97	351.2
Nitrite-Nitrate Nitrogen	mg/L	3.7	0.1	NA	8-27-97	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	8-21-97	354.1

ND = Not Detected
NA = Not Applicable

005285

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FOURTH QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-19 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 111.43 LABORATORY NAME: AEN

DATE SAMPLED: 10/23/97 LABORATORY SAMPLE I.D. #: 710410-01

TIME SAMPLED: 0916 DATE RECEIVED BY LAB: 10/23/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.58	10/23/97
Well Casing Volume	--------	gal.	24.6	10/23/97
Pump Rate	--------	gal./min.	0.63	10/23/97
Pump Period	72004	min.	120	10/23/97
Volume Evacuated	73675	gal.	75	10/23/97
Well Sampling Method	84077	--------	BLDRP	10/23/97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005286

INDICATOR PARAMETERS MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Ph	00400	S.U.	8.0	N/A	10/24/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	730	1	11/4/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	10.0	10	10/30/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1.0	11/4/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

005287

GROUND WATER QUALITY PARAMETERS MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 12-12-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-19

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	0.8	0.2	N/A	11/4/97	8010
Trichloroethene	UG/L	16	0.3	N/A	11/4/97	8010

N/D = Not Detected
N/A = Not Applicable

005289

SECTION 6

MW-20

ANNUAL SUMMARY AND QUARTERLY REPORTS

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

COUNTY BERNALILLO

WELL NUMBER MW-20

WELL LOCATION (LONGITUDE) 106° 39' 42.7" *1

WELL LOCATION (LATITUDE) 35° 11' 20.6" *1

AQUIFER NAME RIO GRANDE ALLUVIAL

AQUIFER CONFINED _____ UNCONFINED X

WELL INSTALLATION DATE 09/27/86

DRILLING METHOD HYDRT

INNER CASING DIAMETER 4.0

BOREHOLE DIAMETER 7.9

CASING MATERIAL PVC

METHOD OF DEVELOPMENT COMPR

ELEV BOTTOM OF BOREHOLE 4906.49

ELEV BOTTOM OF WELL CASING 4906.79

ELEV BOTTOM OF SCREENED INT 4906.79

ELEV OF TOP OF SCREENED INT. 4919.79

SURVEYED ELEV OF CASING TOP 5045.06 *2

SURVEYED MEASURING PT. ELEV. 5045.79 *3

DATE OF REPORT: 12-22-97 **SIGNATURE:** John M. Wakefield

NAME (TYPED) John M. Wakefield

*1 Scaled from USGS 15' quad.
*2 Not surveyed, measured from Surveyed Measuring Point Elevation.
*3 Surveyed Datum on well vault or outer protective casing.

b:wellid/bass

ANNUAL SUMMARY OF MONITOR WELL DATA FOR ASSESSMENT MONITORING

This form is for annual presentation of data by all facilities operating under interim status. [HWMR-5, Part VI, Section 265.93(f) and 265.4(b)].

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-20

SAMPLE DATES

02-04-97	04-24-97	08-20-97	10-23-97

PARAMETERS	UNITS	VALUE			
Elev. of G.Water	ft.	4971.90	4972.07	4971.90	4972.15
pH (Avg)	S.U.	7.6	7.7	7.8	7.7
Spec Cond (Avg)	umhos/cm	610	610	640	620
T.O.X. (Avg)	ug/1	310	<10	10	10
T.O.C. (Avg)	mg/1	1.0	2.0	2.0	2.0
Chloride	mg/1			18	
Iron	ug/1				
Manganese	ug/1			830	
Phenols	ug/1				
Sodium	mg/1			42	
Sulfate	mg/1			86	
Turbidity	NTU				

APPENDIX IX PARAMETERS
MW-20

		SAMPLE DATES			
		02-04-97	04-24-97	08-20-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
1,1-Dichloroethene	ug/l	<0.2	<0.2	<1.0	<0.2
Trichloroethene	ug/l	<0.3	<0.3	1.1	<0.3
1,1,1-Trichloroethane	ug/l	<1.0	<1.0	<1.0	<1.0
Chromium, total	mg/L			<0.01	
Chromium, hexavalent	mg/L			<0.02	
Chromium, trivalent	mg/L			<0.02	
Boron	mg/L			<0.09	
Nickel	mg/L			<0.02	
Nitrite-Nitrate Nitrogen	mg/L			0.3	
Total Kjeldahl Nitrogen	mg/L			<0.5	
Nitrate Nitrogen	mg/L			0.3	
Nitrite Nitrogen	mg/L			<0.1	

DATE OF REPORT: 12/30/97

SIGNATURE: John M. Wakefield

NAME (TYPED): John M. Wakefield

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FIRST QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-20 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 139.00 LABORATORY NAME: AEN

DATE SAMPLED: 2/4/97 LABORATORY SAMPLE I.D. #: 702307-07

TIME SAMPLED: 1325 DATE RECEIVED BY LAB: 2/4/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.90	2/4/97
Well Casing Volume	-------	gal.	42.50	2/4/97
Pump Rate	-------	gal./min.	1.08	2/4/97
Pump Period	72004	min.	121	2/4/97
Volume Evacuated	73675	gal.	129	2/4/97
Well Sampling Method	84077	-------	BLDRP	2/4/97
Sampler Material	-------	-------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005294

INDICATOR PARAMETERS MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.6	NA	2/5/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	610	1	2/7/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	310	10	2/14/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1.0	2/10/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 4-14-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-20

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	<0.2	0.2	NA	2-5-97	8010
Trichloroethene	UG/L	<0.3	0.3	NA	2-5-97	8010

ND = Not Detected
NA = Not Applicable

005297

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. SECOND QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-20 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 139.00 LABORATORY NAME: AEN

DATE SAMPLED: 4/24/97 LABORATORY SAMPLE I.D. #: 704386-02

TIME SAMPLED: 0930 DATE RECEIVED BY LAB: 4/24/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.07	4-24-97
Well Casing Volume	--------	gal.	42.61	4-24-97
Pump Rate	--------	gal./min.	1.27	4-24-97
Pump Period	72004	min.	108	4-24-97
Volume Evacuated	73675	gal.	131	4-24-97
Well Sampling Method	84077	--------	BLDRP	4-24-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005298

INDICATOR PARAMETERS MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Ph	00400	S.U.	7.73	NA	4-25-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	610	1	5-6-97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	ND	10	5-20-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1.0	5-7-97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-17-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-20

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	<0.2	0.2	NA	4/26/97	8010
Trichloroethene	UG/L	<0.3	0.3	NA	4/26/97	8010

ND = Not Detected
NA = Not Applicable

005301

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-20 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 139.00 LABORATORY NAME: AEN

DATE SAMPLED: 8-20-97 LABORATORY SAMPLE I.D. #: 708371-02

TIME SAMPLED: 1504 DATE RECEIVED BY LAB: 8-20-97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.90	8-20-97
Well Casing Volume	--------	gal.	42.50	8-20-97
Pump Rate	--------	gal./min.	1.15	8-20-97
Pump Period	72004	min.	113	8-20-97
Volume Evacuated	73675	gal.	129.0	8-20-97
Well Sampling Method	84077	--------	BLDRP	8-20-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.8	NA	8-21-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	640	1	8-29-97	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	10	10	8-27-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1	8-28-97	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	18	1	8-26-97	325.3
Iron	01045	ug/l				
Manganese	71883	ug/l	830	10	9-8-97	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	42	0.2	9-8-97	200.7
Sulfate	00945	mg/l	86	50	8-27-97	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 10-8-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

005304

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-20

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	<1.0	1.0	NA	8-21-97	8240
Trichloroethene	UG/L	1.1	1.0	NA	8-21-97	8240
1,1,1 Trichloroethane	UG/L	<1.0	5.0	NA	8-21-97	8240
Chromium, total	mg/L	<0.01	0.01	NA	9-8-97	200.7
Chromium, hexavalent	mg/L	<0.02	0.05	NA	8-20-97	SM 3500 CR D
Chromium, trivalent	mg/L	<0.02	0.02	NA	9-8-97	
Boron	mg/L	<0.09	0.09	NA	9-8-97	200.7
Nickel	mg/L	<0.02	0.02	NA	9-8-97	200.7
Nitrate as Nitrogen	mg/L	0.3	0.1	NA	8-27-97	353.2-354.1
Total Kjeldahl Nitrogen	mg/L	<0.5	0.5	NA	8-29-97	351.2
Nitrite-Nitrate Nitrogen	mg/L	0.3	0.1	NA	8-27-97	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	8-21-97	354.1

ND = Not Detected
NA = Not Applicable

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FOURTH QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-20 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 139.00 LABORATORY NAME: AEN

DATE SAMPLED: 10/23/97 LABORATORY SAMPLE I.D. #: 710410-02

TIME SAMPLED: 0912 DATE RECEIVED BY LAB: 10/23/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.15	10/23/97
Well Casing Volume	--------	gal.	42.67	10/23/97
Pump Rate	--------	gal./min.	0.99	10/23/97
Pump Period	72004	min.	132	10/23/97
Volume Evacuated	73675	gal.	130.0	10/23/87
Well Sampling Method	84077	--------	BLDRP	10/23/97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Ph	00400	S.U.	7.7	N/A	10/24/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	620	1	11/4/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	10	10	10/31/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1.0	11/4/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-20

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 12-13-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-20

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	ND	0.2	N/A	11/4/97	8010
Trichloroethene	UG/L	ND	0.3	N/A	11/4/97	8010

N/D = Not Detected
N/A = Not Applicable

005309

SECTION 7

MW-21

ANNUAL SUMMARY AND QUARTERLY REPORTS

005310

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

COUNTY BERNALILLO

WELL NUMBER MW-21

WELL LOCATION (LONGITUDE) 106° 39' 40.2" *1

WELL LOCATION (LATITUDE) 35° 11' 22.4" *1

AQUIFER NAME RIO GRANDE ALLUVIAL

AQUIFER CONFINED _____ UNCONFINED X

WELL INSTALLATION DATE 08/06/86

DRILLING METHOD HLWAG

INNER CASING DIAMETER 2.0

BOREHOLE DIAMETER 7.5

CASING MATERIAL PVC

METHOD OF DEVELOPMENT BAILD

ELEV BOTTOM OF BOREHOLE 4977.80

ELEV BOTTOM OF WELL CASING 4977.80

ELEV BOTTOM OF SCREENED INT 4977.80

ELEV OF TOP OF SCREENED INT. 4982.80

SURVEYED ELEV OF CASING TOP 5047.72 *2

SURVEYED MEASURING P'T. ELEV. 5048.36 *3

DATE OF REPORT: 12-22-97 **SIGNATURE:** John M. Wakefield

NAME (TYPED) John M.Wakefield

*1 Scaled from USGS 15' quad.
*2 Not surveyed, measured from Surveyed Measuring Point Elevation.
*3 Surveyed Datum on well vault or outer protective casing.

b:wellid/bass

ANNUAL SUMMARY OF MONITOR WELL DATA FOR ASSESSMENT MONITORING

This form is for annual presentation of data by all facilities operating under interim status. [HWMR-5, Part VI, Section 265.93(f) and 265.4(b)].

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-21

SAMPLE DATES

02-04-97	04-24-97	08-21-97	10-23-97

PARAMETERS	UNITS	VALUE			
Elev. of G.Water	ft.	4978.68	4978.56	4978.59	4979.01
pH (Avg)	S.U.	7.7	7.9	8.0	7.7
Spec Cond (Avg)	umhos/cm	590	590	600	620
T.O.X. (Avg)	ug/1	710	100	26000	100
T.O.C. (Avg)	mg/1	<1.0	2.0	<1.0	<1.0
Chloride	mg/1			16	
Iron	ug/1				
Manganese	ug/1			30	
Phenols	ug/1				
Sodium	mg/1			42	
Sulfate	mg/1			73	
Turbidity	NTU				

APPENDIX IX PARAMETERS
MW-21

		SAMPLE DATES			
		02-04-97	04-24-97	08-21-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
1,1-Dichloroethene	ug/l	3.9	2.8	2.6	3.3
Trichloroethene	ug/l	97	99	61	130
1,1,1-Trichloroethane	ug/l	33	34	21	37
Tetrachloroethene	ug/l	0.8			0.7
Chromium, total	mg/L			<0.01	
Chromium, hexavalent	mg/L			<0.02	
Chromium, trivalent	mg/L			<0.02	
Boron	mg/L			0.14	
Nickel	mg/L			<0.02	
Nitrite-Nitrate Nitrogen	mg/L			2.6	
Total Kjeldahl Nitrogen	mg/L			<0.05	
Nitrate Nitrogen	mg/L			2.6	
Nitrite Nitrogen	mg/L			<0.1	

DATE OF REPORT: 12/30/97

SIGNATURE: John M. Wakefield

NAME (TYPED): John M. Wakefield

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FIRST QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-21 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 70.56 LABORATORY NAME: AEN

DATE SAMPLED: 2/4/97 LABORATORY SAMPLE I.D. #: 702307-04

TIME SAMPLED: 1018 DATE RECEIVED BY LAB: 2/4/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.68	2/4/97
Well Casing Volume	-------	gal.	0.14	2/4/97
Pump Rate	-------	gal./min.	0.02	2/4/97
Pump Period	72004	min.	48	2/4/97
Volume Evacuated	73675	gal.	0.50	2/4/97
Well Sampling Method	84077	-------	BLDRP	2/4/97
Sampler Material	-------	-------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.7	NA	2/5/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	590	1	2/7/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	710	10	2/14/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	ND	1.0	2/10/97	
	00680	mg/l				415.2
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	ND			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 4-14-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-21

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	3.9	0.2	NA	2/5/97	8010
Trichloroethene	UG/L	97	0.3	NA	2/5/97	8010
1,1,1 Trichloroethane	UG/L	33	1.0	NA	2/5/97	8010
Tetrachloroethene	UG/L	0.8	0.5	NA	2/5/97	8010

ND = Not Detected
NA = Not Applicable

005317

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. SECOND QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-21 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 70.56 LABORATORY NAME: AEN

DATE SAMPLED: 4/24/97 LABORATORY SAMPLE I.D. #: 704386-06

TIME SAMPLED: 1125 DATE RECEIVED BY LAB: 4/24/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.56	4-24-97
Well Casing Volume	--------	gal.	0.12	4-24-97
Pump Rate	--------	gal./min.	0.01	4-24-97
Pump Period	72004	min.	47	4-24-97
Volume Evacuated	73675	gal.	0.37	4-24-97
Well Sampling Method	84077	--------	BLDRP	4-24-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005318

INDICATOR PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Ph	00400	S.U.	7.89	NA	4-25-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	590	1	5-6-97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	100	10	5-21-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2.0	1.0	5-7-97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-17-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-21

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	2.8	0.2	NA	4/29/97	8010
Trichloroethene	UG/L	99	0.3	NA	4/29/97	8010
1,1,1 Trichloroethane	UG/L	34	1.0	NA	4/29/97	8010

ND = Not Detected
NA = Not Applicable

005321

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-21 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 70.56 LABORATORY NAME: AEN

DATE SAMPLED: 8-21-97 LABORATORY SAMPLE I.D. #: 708376-02

TIME SAMPLED: 1218 DATE RECEIVED BY LAB: 8-21-97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.59	8-21-97
Well Casing Volume	--------	gal.	0.13	8-21-97
Pump Rate	--------	gal./min.	0.02	8-21-97
Pump Period	72004	min.	28	8-21-97
Volume Evacuated	73675	gal.	0.45	8-21-97
Well Sampling Method	84077	--------	BLDRP	8-21-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005322

INDICATOR PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.0	NA	8-22-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	600	1	8-29-97	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	26000	10000	9-5-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	<1	1	9-3-97	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	16	1	8-26-97	325.3
Iron	01045	ug/l				
Manganese	71883	ug/l	30	10	9-8-97	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	42	0.2	9-9-97	200.7
Sulfate	00945	mg/l	73	2.0	8-27-97	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 10-8-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-21

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	2.6	1.0	NA	8-26-97	8240
Trichloroethene	UG/L	61	1.0	NA	8-26-97	8240
1,1,1 Trichloroethane	UG/L	21	1.0	NA	8-26-97	8240
Chromium, total	mg/L	<0.01	0.01	NA	9-4-97	200.7
Chromium, hexavalent	mg/L	<0.02	0.02	NA	8-22-97	SM 3500 CR D
Chromium, trivalent	mg/L	<0.02	0.02	NA	9-4-97	
Boron	mg/L	0.14	0.09	NA	9-8-97	200.7
Nickel	mg/L	<0.02	0.02	NA	9-8-97	200.7
Nitrate Nitrogen	mg/L	2.6	0.1	NA	8-27-97	353.2 - 354.1
Total Kjeldahl Nitrogen	mg/L	<0.5	0.5	NA	8-29-97	351.2
Nitrite-Nitrate Nitrogen	mg/L	2.6	0.1	NA	8-27-97	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	8-22-97	354.1

ND = Not Detected
NA = Not Applicable

005325

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FOURTH QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-21 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 70.56 LABORATORY NAME: AEN

DATE SAMPLED: 10/23/97 LABORATORY SAMPLE I.D. #: 710410-05

TIME SAMPLED: 1120 DATE RECEIVED BY LAB: 10/23/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4979.01	10/23/97
Well Casing Volume	--------	gal.	0.20	10/23/97
Pump Rate	--------	gal./min.	0.04	10/23/97
Pump Period	72004	min.	21	10/23/97
Volume Evacuated	73675	gal.	0.7	10/23/97
Well Sampling Method	84077	--------	BLDRP	10/23/97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005320

INDICATOR PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Ph	00400	S.U.	7.7	N/A	10/24/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	620	1	11/4/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	100	10	10/31/9797	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	N/D	1.0	11/4/97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE
N/D = NOT DETECTED

GROUND WATER QUALITY PARAMETERS MW-21

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 12-12-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-21

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	3.3	0.2	N/A	11/4/97	8010
Trichloroethene	UG/L	130	0.3	N/A	11/5/97	8010
1,1,1 Trichloroethane	UG/L	37	1.0	N/A	11/4/97	8010
Tetrachloroethene	UG/L	0.7	0.5	N/A	11/4/97	8010

N/D = Not Detected
N/A = Not Applicable

005329

SECTION 8

MW-22

ANNUAL SUMMARY AND QUARTERLY REPORTS

MONITORING WELL IDENTIFICATION REPORT

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

COUNTY BERNALILLO

WELL NUMBER MW-22

WELL LOCATION (LONGITUDE) 106° 39' 35.8" *1

WELL LOCATION (LATITUDE) 35° 11' 20.6" *1

AQUIFER NAME RIO GRANDE ALLUVIAL

AQUIFER CONFINED _____ UNCONFINED X

WELL INSTALLATION DATE 08/08/86

DRILLING METHOD HLWAG

INNER CASING DIAMETER 2.0

BOREHOLE DIAMETER 7.5

CASING MATERIAL PVC

METHOD OF DEVELOPMENT BAILD

ELEV BOTTOM OF BOREHOLE 4970.51

ELEV BOTTOM OF WELL CASING 4972.01

ELEV BOTTOM OF SCREENED INT 4972.01

ELEV OF TOP OF SCREENED INT. 4977.01

SURVEYED ELEV OF CASING TOP 5047.41 *2

SURVEYED MEASURING PT. ELEV. 5048.06 *3

DATE OF REPORT: 12-22-97 **SIGNATURE:** John M. Wakefield

NAME (TYPED) John M.Wakefield

*1 Scaled from USGS 15' quad.
*2 Not surveyed, measured from Surveyed Measuring Point Elevation.
*3 Surveyed Datum on well vault or outer protective casing.

b:wellid/bass

ANNUAL SUMMARY OF MONITOR WELL DATA FOR ASSESSMENT MONITORING

This form is for annual presentation of data by all facilities operating under interim status. [HWMR-5, Part VI, Section 265.93(f) and 265.4(b)].

NEW MEXICO ENVIRONMENTAL DEPARTMENT
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P.O. BOX 26110
525 CAMINO DE LOS MARQUEZ
SANTA FE, NEW MEXICO 87502

FACILITY NAME SPARTON TECHNOLOGY, INC.

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-22

SAMPLE DATES

		02-04-97	04-24-97	08-21-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
Elev. of G.Water	ft.	4977.81	4978.06	4977.97	4978.47
pH (Avg)	S.U.	7.4	7.6	7.8	7.5
Spec Cond (Avg)	umhos/cm	710	690	690	690
T.O.X. (Avg)	ug/1	60	80	60000	110
T.O.C. (Avg)	mg/1	<1	1.0	<1	<1
Chloride	mg/1			17	
Iron	ug/1				
Manganese	ug/1			40	
Phenols	ug/1				
Sodium	mg/1			46	
Sulfate	mg/1			78	
Turbidity	NTU				

APPENDIX IX PARAMETERS
MW-22

		SAMPLE DATES			
		02-04-97	04-24-97	08-21-97	10-23-97
PARAMETERS	**UNITS**	**VALUE**			
1,1-Dichloroethene	ug/l	6.8	11	6.2	9.3
Trichloroethene	ug/l	40	74	44	54
1,1,1-Trichloroethane	ug/l	41	37	21	27
Tetrachloroethene	ug/l	0.5	1.1		3.8
Chloroform	ug/l		0.5		
Chromium, total	mg/L			<0.01	
Chromium, hexavalent	mg/L			<0.02	
Chromium, trivalent	mg/L			<0.02	
Boron	mg/L			0.18	
Nickel	mg/L			<0.02	
Nitrite-Nitrate Nitrogen	mg/L			7.0	
Total Kjeldahl Nitrogen	mg/L			<0.05	
Nitrate Nitrogen	mg/L			7.0	
Nitrite Nitrogen	mg/L			<0.1	

DATE OF REPORT: 12/30/97

SIGNATURE: John M. Wakefield

NAME (TYPED): John M. Wakefield

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FIRST QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-22 SAMPLE COLLECTION BY: DON R.BRIGGS

WELL DEPTH: 76.05 LABORATORY NAME: AEN

DATE SAMPLED: 2/4/97 LABORATORY SAMPLE I.D. #: 702307-03

TIME SAMPLED: 0957 DATE RECEIVED BY LAB: 2/4/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4977.81	2/4/97
Well Casing Volume	-------	gal.	0.95	2/4/97
Pump Rate	-------	gal./min.	0.09	2/4/97
Pump Period	72004	min.	31	2/4/97
Volume Evacuated	73675	gal.	2.80	2/4/97
Well Sampling Method	84077	-------	BLDRP	2/4/97
Sampler Material	-------	-------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005334

INDICATOR PARAMETERS MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.4	NA	2/5/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	710	1	2/7/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	60	10	2/14/97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	ND	1.0	2/10/97	
	00680	mg/l				415.2
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	ND			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	ND			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 4-14-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-22

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	6.8	0.2	NA	2/5/97	8010
Trichloroethene	UG/L	40	0.3	NA	2/5/97	8010
1,1,1 Trichloroethane	UG/L	41	1.0	NA	2/5/97	8010
Tetrachloroethene	UG/L	0.5	0.5	NA	2/5/97	8010

ND = Not Detected
NA = Not Applicable

005337

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. SECOND QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-22 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 76.05 LABORATORY NAME: AEN

DATE SAMPLED: 4/24/97 LABORATORY SAMPLE I.D. #: 704386-05

TIME SAMPLED: 1153 DATE RECEIVED BY LAB: 4/24/97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.06	4-24-97
Well Casing Volume	--------	gal.	0.99	4-24-97
Pump Rate	--------	gal./min.	0.10	4-24-97
Pump Period	72004	min.	33	4-24-97
Volume Evacuated	73675	gal.	3.2	4-24-97
Well Sampling Method	84077	--------	BLDRP	4-24-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.58	NA	4-25-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	690	1	5-6-97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	80.0	10	5-21-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1.0	1.0	5-7-97	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 7-17-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-22

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	11	0.2	NA	4/27/97	8010
Trichloroethene	UG/L	74	0.3	NA	4/29/97	8010
1,1,1 Trichloroethane	UG/L	37	1.0	NA	4/29/97	8010
Tetrachloroethene	UG/L	1.1	0.5	NA	4/27/97	8010
Chloroform	UG/L	0.5	0.5	NA	4/27/97	8010

ND = Not Detected
NA = Not Applicable

005341

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. 3rd QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-22 SAMPLE COLLECTION BY: PETER H. METZNER

WELL DEPTH: 76.05 LABORATORY NAME: AEN

DATE SAMPLED: 8-21-97 LABORATORY SAMPLE I.D. #: 708376-03

TIME SAMPLED: 1358 DATE RECEIVED BY LAB: 8-21-97

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4977.97	8-21-97
Well Casing Volume	--------	gal.	0.97	8-21-97
Pump Rate	--------	gal./min.	0.14	8-21-97
Pump Period	72004	min.	36	8-21-97
Volume Evacuated	73675	gal.	4.5	8-21-97
Well Sampling Method	84077	--------	BLDRP	8-21-97
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

005342

INDICATOR PARAMETERS MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	7.8	NA	8-22-97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	690	1	8-29-97	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	60000	10000	9-5-97	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	<1	1	9-3-97	
	00680	mg/l				415.1/EPA 600
	00680	mg/l				
	00680	mg/l				

NA = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	17	1	8-26-97	325.3
Iron	01045	ug/l				
Manganese	71883	ug/l	40	10	9-8-97	200.7
Phenols	32730	ug/l				
Sodium	00929	mg/l	46	0.2	9-9-97	200.7
Sulfate	00945	mg/l	78	50	8-27-97	375.4
Turbidity		NTU				

DATE OF THIS REPORT: 10-8-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

005344

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-22

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	6.2	1.0	NA	8-26-97	8240
Trichloroethene	UG/L	44	1.0	NA	8-26-97	8240
1,1,1 Trichloroethane	UG/L	21	1.0	NA	8-26-97	8240
Chromium, total	mg/L	<0.01	0.01	NA	9-4-97	200.7
Chromium, hexavalent	mg/L	<0.02	0.02	NA	8-22-97	SM 3500 CR D
Chromium, trivalent	mg/L	<0.02	0.02	NA	9-4-97	
Boron	mg/L	0.18	0.09	NA	9-8-97	200.7
Nickel	mg/L	<0.02	0.02	NA	9-8-97	200.7
Nitrate Nitrogen	mg/L	7.0	0.1	NA	8-27-97	353.2 - 354.1
Total Kjeldahl Nitrogen	mg/L	<0.5	0.5	NA	8-29-97	351.2
Nitrite-Nitrate Nitrogen	mg/L	7.0	0.2	NA	8-27-97	353.2
Nitrite Nitrogen	mg/L	<0.1	0.1	NA	8-22-97	354.1

ND = Not Detected
NA = Not Applicable

INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

This set of data sheets is for use by all facilities in assessment monitoring. [HWMR-5, Part VI, Section 265.93(d) (4), (5) and (7) (e) and (f), and Section 265.94(b).]

ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
1190 ST. FRANCIS DR./HAROLD RUNNELS BLDG.
SANTA FE, NEW MEXICO 87503

FACILITY NAME: SPARTON TECHNOLOGY, INC. FOURTH QUARTER 1997

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-22 SAMPLE COLLECTION BY: DON A. GUTIERREZ

WELL DEPTH: 76.05 LABORATORY NAME: AEN

DATE SAMPLED: 10/23/97 LABORATORY SAMPLE I.D. #: 710410-06

TIME SAMPLED: 1235 DATE RECEIVED BY LAB: 10/23/97

RAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
ation of G. Water	71993	ft.	4973.47	10/23/97
Casing Volume	--------	gal.	1.05	10/23/97
Rate	--------	gal./min.	0.10	10/23/97
Period	72004	min.	29	10/23/97
Evacuated	73675	gal.	3.0	10/23/97
npling Method	84077	--------	BLDRP	10/23/97
Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS

MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHO USED
pH	00400	S.U.	7.5	N/A	10/24/97	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	690	1	11/4/97	
	00095	umhos/cm				120.1
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	110.0	10	10/31/97	
	70354	ug/l				907
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	N/D	1.0	11/4/97	
	00680	mg/l				
	00680	mg/l				
	00680	mg/l				

N/D = NOT DETECTABLE
N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS MW-22

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
Chloride	00940	mg/l	NA			
Iron	01045	ug/l	NA			
Manganese	71883	ug/l	NA			
Phenols	32730	ug/l	NA			
Sodium	00929	mg/l	NA			
Sulfate	00945	mg/l	NA			
Turbidity		NTU	NA			

DATE OF THIS REPORT: 12-12-97

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

NA = Not Applicable

MONITORING WELL APPENDIX VI OR IX FOR FACILITIES IN ASSESSMENT

MW-22

Under assessment monitoring as per HWMR-5 Part VI Section 265.93(d) (4), (5) and (7) and 42 Federal Register, 25942 (July 9, 1987), please list values for the Appendix VII or IX parameters which were found in your Appendix IX scan.

PARAMETER	UNITS	VALUE	DETECTION LIMIT	DATE EXTRACTED	DATE ANALYZED	METHOD USED
1,1, - Dichloroethene	UG/L	9.3	0.2	N/A	11/4/97	8010
Trichloroethene	UG/L	54	0.3	N/A	11/4/97	8010
1,1,1 Trichloroethane	UG/L	27	1.0	N/A	11/4/97	8010
Tetrachloroethene	UG/L	3.8	0.5	N/A	11/4/97	8010

N/D = Not Detected
N/A = Not Applicable

005349

SECTION 9

FIRST QUARTER, 1997

LABORATORY REPORT

American Environmental Network, Inc.

1Q 1997 AGMP
MW-9, 14, 22, 21, 16, 19, 20, FB
PZ-2 = Field Blank

AEN I.D. 702307

March 27, 1997

SPARTON TECHNOLOGIES
9621 COORS RD., NW
ALBUQUERQUE, NM 87114

Project Name AGMP-1Q97
Project Number 20497

Attention: JOHN M. WAKEFIELD

On 2/4/97 American Environmental Network (NM), 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 8010 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

All other analyses were performed by American Environmental Network (FL) Inc., 11 East Olive Road, Pensacola, FL.

This report is being reissued in full to correct a log-in error. We apologize for the delay in reissuing this report; however we needed to confirm that all analyses for the three wells in question were involved. We apologize for any inconvenience this may have caused.

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

005351

Enclosure

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES	AEN I.D.	: 702307
PROJECT #	: 20497	DATE RECEIVED	: 2/4/97
PROJECT NAME	: AGMP-1Q97	REPORT DATE	: 3/27/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-14	AQUEOUS	2/4/97
02	MW-9	AQUEOUS	2/4/97
03	MW-22	AQUEOUS	2/4/97
04	MW-21	AQUEOUS	2/4/97
05	MW-16	AQUEOUS	2/4/97
06	MW-19	AQUEOUS	2/4/97
07	MW-20	AQUEOUS	2/4/97
08	PZ-2	AQUEOUS	2/4/97
09	TRIP BLANK	AQUEOUS	1/27/97

American Environmental Network, Inc.

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 702307-01			Lab ID: 001		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	630	1	CDW004	
PH (150.1)	UNITS	8.3	NA	PHW024	
Comments:					
Client ID: 702307-02			Lab ID: 002		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	690	1	CDW004	
PH (150.1)	UNITS	7.5	NA	PHW024	
Comments:					
Client ID: 702307-03			Lab ID: 003		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	710	1	CDW004	
PH (150.1)	UNITS	7.4	NA	PHW024	
Comments:					
Client ID: 702307-04			Lab ID: 004		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	590	1	CDW004	
PH (150.1)	UNITS	7.7	NA	PHW024	
Comments:					
Client ID: MW-20			Lab ID: 005		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	610	1	CDW004	
PH (150.1)	UNITS	7.6	NA	PHW024	
Comments:					
Client ID: MW-16			Lab ID: 006		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	1200	1	CDW004	
PH (150.1)	UNITS	7.8	NA	PHW024	
Comments:					

American Environmental Network, Inc.

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: MW-19			Lab ID: 007		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	740	1	CDW004	
PH (150.1)	UNITS	7.4	NA	PHW024	
Comments:					
Client ID: 702307-08			Lab ID: 008		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	1	1	CDW004	
PH (150.1)	UNITS	5.7	NA	PHW024	
Comments:					
Client ID: 702307-09			Lab ID: 009		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	1	1	CDW004	
PH (150.1)	UNITS	6.0	NA	PHW024	
Comments:					

American Environmental Network, Inc.

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
702307-01	001	WATER	04-FEB-97 0838	05-FEB-97
702307-02	002	WATER	04-FEB-97 0859	05-FEB-97
702307-03	003	WATER	04-FEB-97 0957	05-FEB-97
702307-04	004	WATER	04-FEB-97 1018	05-FEB-97
MW-20	005	WATER	04-FEB-97 1054	05-FEB-97
MW-16	006	WATER	04-FEB-97 1317	05-FEB-97
MW-19	007	WATER	04-FEB-97 1325	05-FEB-97
702307-08	008	WATER	04-FEB-97 1242	05-FEB-97
702307-09	009	WATER	04-FEB-97 0930	05-FEB-97

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
702307-01	CONDUCTIVITY (120.1/2510 B)	UMH/CM	630
	PH (150.1)	UNITS	8.3
702307-02	CONDUCTIVITY (120.1/2510 B)	UMH/CM	690
	PH (150.1)	UNITS	7.5
702307-03	CONDUCTIVITY (120.1/2510 B)	UMH/CM	710
	PH (150.1)	UNITS	7.4
702307-04	CONDUCTIVITY (120.1/2510 B)	UMH/CM	590
	PH (150.1)	UNITS	7.7
MW-20	CONDUCTIVITY (120.1/2510 B)	UMH/CM	610
	PH (150.1)	UNITS	7.6
MW-16	CONDUCTIVITY (120.1/2510 B)	UMH/CM	1200
	PH (150.1)	UNITS	7.8
MW-19	CONDUCTIVITY (120.1/2510 B)	UMH/CM	740
	PH (150.1)	UNITS	7.4
702307-08	CONDUCTIVITY (120.1/2510 B)	UMH/CM	1
	PH (150.1)	UNITS	5.7
702307-09	CONDUCTIVITY (120.1/2510 B)	UMH/CM	1
	PH (150.1)	UNITS	6.0

American Environmental Network, Inc.

"WetChem Quality Control Report"

Parameter:	CONDUCT'Y	PH
Batch Id:	CDW004	PHW024
Blank Result:	<1	N/A
Anal. Method:	120.1	150.1
Prep. Method:	N/A	N/A
Analysis Date:	07-FEB-97	05-FEB-97
Prep. Date:	05-FEB-97	05-FEB-97

Sample Duplication

Sample Dup:	702049-3	702063-1
Rept Limit:	<1	N/A
Sample Result:	714	8.42
Dup Result:	712	8.43
Sample RPD:	0	0.01
Max RPD:	4	0.12
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	N/A	N/A
Rept Limit:	N/A	N/A
Sample Result:		
Spiked Result:		
Spike Added:		
% Recovery:		
% Rec Limits:		
Dry Weight%		

ICV

ICV Result:	10.05
True Result:	10.00
% Recovery:	101
% Rec Limits:	90-110

LCS

LCS Result:	6.90
True Result:	6.87
% Recovery:	100
% Rec Limits:	97-103

American Environmental Network, Inc.

"Quality Control Comments"

Batch Id:	Comments:
CDW004	702090-1 WAS ADDED TO BATCH ON 2/7/97.

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.
METHOD FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	AB = ANDY BROTHERTON
JL = JAN LECLEAR	NSB = NANCY S. BUTLER	MM = MIKE MCKENZIE
MB = MICHELLE BOTTS	ED = ESTHER DANTIN	
PLD = PAULA L. DOUGHTY	RH = RICKY HAGENDORFER	

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020, March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	001	Sample Date/Time:	04-FEB-97 0838
Client Sample Id:	702307-01	Received Date:	05-FEB-97
Batch: TOW007		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	10-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	LP		

Comments:

005360

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020, March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	002	Sample Date/Time:	04-FEB-97 0859
Client Sample Id:	702307-02	Received Date:	05-FEB-97
Batch: TOW007		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	10-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	1	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020, March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	003	Sample Date/Time:	04-FEB-97 0957
Client Sample Id:	702307-03	Received Date:	05-FEB-97
Batch: TOW007		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	10-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020, March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	004	Sample Date/Time:	04-FEB-97 1018
Client Sample Id:	702307-04	Received Date:	05-FEB-97
Batch: TOW007		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	10-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 005
Client Sample Id: MW-20

Sample Date/Time: 04-FEB-97 1054
Received Date: 05-FEB-97

Batch: TOW007
Blank: B

Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 10-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	1	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020, March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	006	Sample Date/Time:	04-FEB-97 1317
Client Sample Id:	MW-16	Received Date:	05-FEB-97
Batch: TOW007		Extraction Date:	N/A
Blank: C	Dry Weight %: N/A	Analysis Date:	11-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	1	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 007
Client Sample Id: MW-19

Sample Date/Time: 04-FEB-97 1325
Received Date: 05-FEB-97

Batch: TOW007
Blank: C

Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 11-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020, March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	008	Sample Date/Time:	04-FEB-97 1242
Client Sample Id:	702307-08	Received Date:	05-FEB-97
Batch: TOW007		Extraction Date:	N/A
Blank: C	Dry Weight %: N/A	Analysis Date:	11-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020, March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	009	Sample Date/Time:	04-FEB-97 0930
Client Sample Id:	702307-09	Received Date:	05-FEB-97
Batch: TOW007		Extraction Date:	N/A
Blank: C	Dry Weight %: N/A	Analysis Date:	11-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
702307-01	TOTAL ORGANIC CARBON	MG/L	2
702307-02	TOTAL ORGANIC CARBON	MG/L	1
MW-20	TOTAL ORGANIC CARBON	MG/L	1
MW-16	TOTAL ORGANIC CARBON	MG/L	1

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TOW007
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 10-FEB-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	LP	

Comments:

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TOW007
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

Blank Id: B Date Analyzed: 10-FEB-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	LP	

Comments:

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TOW007
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

Blank Id: C Date Analyzed: 11-FEB-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	LP	

Comments:

American Environmental Network, Inc.

"QC Report"

Title: Water Reagent
Batch: TOW007
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

RS Date Analyzed: 10-FEB-97 RS Date Extracted: N/A
RSD Date Analyzed: 10-FEB-97 RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	6.3	94	6.0	90	4	30	71-127

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

American Environmental Network, Inc.

"QC Report"

Title: Water Matrix
Batch: TOW007
Analysis Method: 415.1/EPA-600/4-79-020, March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 702049-1

MS Date Analyzed: 10-FEB-97
MSD Date Analyzed: 10-FEB-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	6.4	96	6.8	101	5	30	51-135

Surrogates:

Comments:

Notes:
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MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
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American Environmental Network, Inc.

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N/S = NOT SUBMITTED
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D = DILUTED OUT
UG = MICROGRAMS
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/M3 = MILLIGRAM PER CUBIC METER.
PPMV = PART PER MILLION BY VOLUME.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

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AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

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PL = PAUL LESCHENSKY
RW = ROBERT WOLFE
S = KENDALL SMITH
K = KERRY LEMONT
P = ROB PEREZ
JBT = JENNIFER TORRANCE
LP = LAVERNE PETERSON
LD = PAULA DOUGHTY

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	001	Sample Date/Time:	04-FEB-97 0838
Client Sample Id:	702307-01	Received Date:	05-FEB-97
Batch: TXW003		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	14-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.2	0.01	
ANALYST	INITIALS	PLD		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	002	Sample Date/Time:	04-FEB-97 0859
Client Sample Id:	702307-02	Received Date:	05-FEB-97
Batch: TXW003		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	14-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.57	0.01	
ANALYST	INITIALS	PLD		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: B

Lab Id: 003
Client Sample Id: 702307-03

Sample Date/Time: 04-FEB-97 0957
Received Date: 05-FEB-97

Batch: TXW003
Blank: A

Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 14-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.06	0.01	
ANALYST	INITIALS	PLD		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	004		Sample Date/Time:	04-FEB-97 1018
Client Sample Id:	702307-04		Received Date:	05-FEB-97
Batch: TXW003			Extraction Date:	N/A
Blank: A	Dry Weight %:	N/A	Analysis Date:	14-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.71	0.1	
ANALYST	INITIALS	PLD		

Comments:

005379

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: B

Lab Id: 005
Client Sample Id: MW-20

Sample Date/Time: 04-FEB-97 1054
Received Date: 05-FEB-97

Batch: TXW003
Blank: A

Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 14-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.31	0.1	
ANALYST	INITIALS	PLD		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: B

Lab Id: 006 Sample Date/Time: 04-FEB-97 1317
Client Sample Id: MW-16 Received Date: 05-FEB-97

Batch: TXW003 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 18-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.11	0.01	
ANALYST	INITIALS	PLD		

Comments:

005381

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	007	Sample Date/Time:	04-FEB-97 1325
Client Sample Id:	MW-19	Received Date:	05-FEB-97
Batch: TXW003		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	18-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.19	0.01	
ANALYST	INITIALS	PLD		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001
American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: B

Lab Id: 008 Sample Date/Time: 04-FEB-97 1242
Client Sample Id: 702307-08 Received Date: 05-FEB-97

Batch: TXW003 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 18-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.02	0.01	
ANALYST	INITIALS	PLD		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	702062
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	702307
Project Name:	SPARTON
Project Location:	A6MP
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	009	Sample Date/Time:	04-FEB-97 0930
Client Sample Id:	702307-09	Received Date:	05-FEB-97
Batch: TXW003		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	18-FEB-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.02	0.01	
ANALYST	INITIALS	PLD		

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 702062
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 702307
Project Name: SPARTON
Project Location: A6MP
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
702307-01	TOTAL ORGANIC HALIDES	MG/L	0.2
702307-02	TOTAL ORGANIC HALIDES	MG/L	0.57
702307-03	TOTAL ORGANIC HALIDES	MG/L	0.06
702307-04	TOTAL ORGANIC HALIDES	MG/L	0.71
MW-20	TOTAL ORGANIC HALIDES	MG/L	0.31
MW-16	TOTAL ORGANIC HALIDES	MG/L	0.11
MW-19	TOTAL ORGANIC HALIDES	MG/L	0.19
702307-08	TOTAL ORGANIC HALIDES	MG/L	0.02
702307-09	TOTAL ORGANIC HALIDES	MG/L	0.02

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TXW003
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 14-FEB-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	PLD	

Comments:
NOT ENOUGH SAMPLE SUBMITTED TO ANALYZE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TXW003
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: B Date Analyzed: 18-FEB-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	PLD	

Comments:
NOT ENOUGH SAMPLE SUBMITTED TO ANALYZE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

American Environmental Network, Inc.

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UG/KG = PARTS PER BILLION.
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PPMV = PART PER MILLION BY VOLUME.
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AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

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RP = ROB PEREZ
JBT = JENNIFER TORRANCE
LP = LAVERNE PETERSON
PLD = PAULA DOUGHTY

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702307
PROJECT # : 20497
PROJECT NAME : AGMP-1Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-14	AQUEOUS	2/4/97	NA	2/5/97	1
02	MW-9	AQUEOUS	2/4/97	NA	2/5/97	1
03	MW-22	AQUEOUS	2/4/97	NA	2/5/97	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	**1.0**	**2.0**	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	**UG/L**	< 0.3	**1.6 D(1)**	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**12**	**32 D(10)**	**6.8**
cis-1,2-DICHLOROETHENE	0.2	**UG/L**	**0.3**	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	**UG/L**	< 2.0	**52 D(10)**	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	**1.1**	**2.0**	**0.5**
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	**3.9**	**48 D(10)**	**41 D(10)**
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	**0.5**	**0.8**	< 0.2
TRICHLOROETHENE	0.3	**UG/L**	**260 D(50)**	**550 D(50)**	**40 D(10)**
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			97	89	95
SURROGATE LIMITS	(73 - 117)				

005389

CHEMIST NOTES:
D(50)=DILUTED 50X, ANALYZED 2/6/97. D(1)=ANALYZED 2/6/97. D(10)=DILUTED 10X, ANALYZED 2/5/97.

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702307
PROJECT # : 20497
PROJECT NAME : AGMP-1Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	MW-21	AQUEOUS	2/4/97	NA	2/5/97	1
05	MW-16	AQUEOUS	2/4/97	NA	2/5/97	1
06	MW-19	AQUEOUS	2/4/97	NA	2/5/97	1

PARAMETER	DET. LIMIT	UNITS	04	05	06
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	**UG/L**	< 0.5	**19**	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	< 0.5	**4.6**	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	**UG/L**	< 0.3	**2.6 D(1)**	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**3.9**	**130 D(10)**	< 0.2
cis-1,2-DICHLOROETHENE	0.2	**UG/L**	< 0.2	**0.3**	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	**0.8**	**74 D(10)**	< 0.5
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	**33 D(10)**	**1400 D(10**	< 1.0
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	< 0.2	**8.6**	< 0.2
TRICHLOROETHENE	0.3	**UG/L**	**97 D(10)**	**6000 D(500)**	**6.4**
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			91	87	91
SURROGATE LIMITS	(73 - 117)				

005330

CHEMIST NOTES:
D(1)= ANALYZED 2/6/97. D(10)= DILUTED 10X, ANALYZED 2/5/97. D(100)= DILUTED 100X, ANALYZED 2/6/97.
D(500)= DILUTED 500X, ANALYZED 2/6/97.

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702307
PROJECT # : 20497
PROJECT NAME : AGMP-1Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	MW-20	AQUEOUS	2/4/97	NA	2/5/97	1
08	PZ-2	AQUEOUS	2/4/97	NA	2/5/97	1
09	TRIP BLANK	AQUEOUS	1/27/97	NA	2/5/97	1

PARAMETER	DET. LIMIT	UNITS	07	08	09
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
TRICHLOROETHENE	0.3	**UG/L**	< 0.3	**2.1**	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		97	87	78
SURROGATE LIMITS	(73 - 117)			

CHEMIST NOTES:
N/A

005391

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 020597	AEN I.D.	: 702307
CLIENT	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: NA
PROJECT #	: 20497	DATE ANALYZED	: 2/5/97
PROJECT NAME	: AGMP-1Q97	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:
BROMOCHLOROMETHANE (%) 101
SURROGATE LIMITS (73 - 117)

CHEMIST NOTES:
N/A

005392

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 020697	AEN I.D.	: 702307
CLIENT	: SPARTON TECHNOLOGIES	DATE EXTRACTED	: NA
PROJECT #	: 20497	DATE ANALYZED	: 2/6/97
PROJECT NAME	: AGMP-1Q97	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5
SURROGATE:		
BROMOCHLOROMETHANE (%)		98
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

005393

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY - QUALITY CONTROL
MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8010)		
MSMSD #	: 702307-05	AEN I.D.	: 702307
CLIENT	: SPARTON TECHNOLOGIES	DATE EXRACTED	: NA
PROJECT #	: 20497	DATE ANALYZED	: 2/6/97
PROJECT NAME	: AGMP-1Q97	SAMPLE MATRIX	: AQUEOUS
		UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	8.9	89	9.4	94	5	(87 - 124)	20
1,1-DICHLOROETHENE	<0.2	10.0	9.4	94	9.8	98	4	(40 - 120)	20
TRICHLOROETHENE	<0.3	10.0	11.7	117	12.2	122	4	(89 - 127)	20

CHEMIST NOTES:
N/A

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

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

005394

SECTION 10

SECOND QUARTER, 1997

LABORATORY REPORT

American Environmental Network, Inc.

AGMP 2Q 1997
MW-19, 20, 14, 9, 22, 21, 16
Field Blank = PZ-2
MW-15 Dry

AEN I.D. 704386

May 27, 1997

SPARTON TECHNOLOGY, INC.
9621 COORS RD., NW
ALBURQUERQUE, NM 87114

Project Name 2Q97-AGMP
Project Number 42497

Attention: JOHN M. WAKEFIELD

On 4/24/97 American Environmental Network (NM), 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 methods 150.1 and 8010 were performed by American Environmental Network (NM), Inc., Albuquerque, NM.

All other analyses were performed by American Environmental Network (FL) Inc., 11 East Olive Road, Pensacola, FL.

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

005396

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGY, INC.	AEN I.D.	: 704386
PROJECT #	: 42497	DATE RECEIVED	: 4/24/97
PROJECT NAME	: 2Q97-AGMP	REPORT DATE	: 5/27/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-19	AQ	4/24/97
02	MW-20	AQ	4/24/97
03	MW-14	AQ	4/24/97
.04	MW-9	AQ	4/24/97
05	MW-22	AQ	4/24/97
06	MW-21	AQ	4/24/97
07	MW-16	AQ	4/24/97
08	PZ-2	AQ	4/24/97
09	TRIP BLANK	AQ	4/17/97

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGY, INC.	AEN I.D.	: 704386
PROJECT #	: 42497	DATE RECEIVED	: 4/24/97
PROJECT NAME	: 2Q97-AGMP		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	MW-19	AQUEOUS	4/24/97	4/25/97
02	MW-20	AQUEOUS	4/24/97	4/25/97
03	MW-14	AQUEOUS	4/24/97	4/25/97

PARAMETER	UNITS	01	02	03
PH (150.1)	UNITS	7.57	7.73	8.22

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGY, INC.	AEN I.D.	: 704386
PROJECT #	: 42497	DATE RECEIVED	: 4/24/97
PROJECT NAME	: 2Q97-AGMP		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
04	MW-9	AQUEOUS	4/24/97	4/25/97
05	MW-22	AQUEOUS	4/24/97	4/25/97
06	MW-21	AQUEOUS	4/24/97	4/25/97

PARAMETER	UNITS	04	05	06
PH (150.1)	UNITS	7.67	7.58	7.89

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGY, INC.	AEN I.D.	: 704386
PROJECT #	: 42497	DATE RECEIVED	: 4/24/97
PROJECT NAME	: 2Q97-AGMP		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
07	MW-16	AQUEOUS	4/24/97	4/25/97
08	PZ-2	AQUEOUS	4/24/97	4/25/97
09	TRIP BLANK	AQUEOUS	4/17/97	4/25/97

PARAMETER	UNITS	07	08	09
PH (150.1)	UNITS	7.98	8.06	6.85

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: SPARTON TECHNOLOGY, INC.	AEN I.D.	: 704386
PROJECT #	: 42497	SAMPLE MATRIX	:
PROJECT NAME	: 2Q97-AGMP		

PARAMETER	UNITS	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	704386-04	7.67	7.75	1

CHEMIST NOTES:
N/A

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

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

American Environmental Network, Inc.

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 704386-01			Lab ID: 001		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	740	1	CDW012	
Comments:					
Client ID: 704386-02			Lab ID: 002		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	610	1	CDW012	
Comments:					
Client ID: 704386-03			Lab ID: 003		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	730	1	CDW012	
Comments:					
Client ID: 704386-04			Lab ID: 004		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	680	1	CDW012	
Comments:					
Client ID: 704386-05			Lab ID: 005		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	690	1	CDW012	
Comments:					
Client ID: 704386-06			Lab ID: 006		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	590	1	CDW012	
Comments:					
Client ID: 704386-07			Lab ID: 007		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	1000	1	CDW012	
Comments:					

American Environmental Network, Inc.

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 704386-08			Lab ID: 008		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	3	1	CDW012	
Comments:					
Client ID: 704386-09			Lab ID: 009		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	2	1	CDW012	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
704386-01	001	WATER	24-APR-97 0918	26-APR-97
704386-02	002	WATER	24-APR-97 0930	26-APR-97
704386-03	003	WATER	24-APR-97 1042	26-APR-97
704386-04	004	WATER	24-APR-97 1016	26-APR-97
704386-05	005	WATER	24-APR-97 1153	26-APR-97
704386-06	006	WATER	24-APR-97 1125	26-APR-97
704386-07	007	WATER	24-APR-97 1522	26-APR-97
704386-08	008	WATER	24-APR-97 0900	26-APR-97
704386-09	009	WATER	17-APR-97 1520	26-APR-97

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
704386-01	CONDUCTIVITY (120.1/2510 B)	UMH/CM	740
704386-02	CONDUCTIVITY (120.1/2510 B)	UMH/CM	610
704386-03	CONDUCTIVITY (120.1/2510 B)	UMH/CM	730
704386-04	CONDUCTIVITY (120.1/2510 B)	UMH/CM	680
704386-05	CONDUCTIVITY (120.1/2510 B)	UMH/CM	690
704386-06	CONDUCTIVITY (120.1/2510 B)	UMH/CM	590
704386-07	CONDUCTIVITY (120.1/2510 B)	UMH/CM	1000
704386-08	CONDUCTIVITY (120.1/2510 B)	UMH/CM	3
704386-09	CONDUCTIVITY (120.1/2510 B)	UMH/CM	2

American Environmental Network, Inc.

"WetChem Quality Control Report"

Parameter:	CONDUCT'Y
Batch Id:	CDW012
Blank Result:	<1
Anal. Method:	120.1
Prep. Method:	N/A
Analysis Date:	06-MAY-97
Prep. Date:	06-MAY-97

Sample Duplication

Sample Dup:	704461-1
Rept Limit:	<1
Sample Result:	744
Dup Result:	743
Sample RPD:	0
Max RPD:	2
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	N/A
Rept Limit:	N/A
Sample Result:	
Spiked Result:	
Spike Added:	
% Recovery:	
% Rec Limits:	
Dry Weight%	

ICV

ICV Result:	1420
True Result:	1412
% Recovery:	101
% Rec Limits:	98-102

LCS

LCS Result:	
True Result:	
% Recovery:	
% Rec Limits:	

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	AB = ANDY BROTHERTON
JL = JAN LECLEAR	NSB = NANCY S. BUTLER	MM = MIKE MCKENZIE
ED = ESTHER DANTIN	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
PLD = PAULA L. DOUGHTY	RH = RICKY HAGENDORFER	

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	001	Sample Date/Time:	24-APR-97 0918
Client Sample Id:	704386-01	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	1	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	002	Sample Date/Time:	24-APR-97 0930
Client Sample Id:	704386-02	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	003	Sample Date/Time:	24-APR-97 1042
Client Sample Id:	704386-03	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	004	Sample Date/Time:	24-APR-97 1016
Client Sample Id:	704386-04	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	LP		

Comments:

005411

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	005	Sample Date/Time:	24-APR-97 1153
Client Sample Id:	704386-05	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	1	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	006	Sample Date/Time:	24-APR-97 1125
Client Sample Id:	704386-06	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	007	Sample Date/Time:	24-APR-97 1522
Client Sample Id:	704386-07	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	LP		

Comments:

005414

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	008	Sample Date/Time:	24-APR-97 0900
Client Sample Id:	704386-08	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	LP		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	009	Sample Date/Time:	17-APR-97 1520
Client Sample Id:	704386-09	Received Date:	26-APR-97
Batch: TOW046		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	07-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	LP		

Comments:

005416

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
704386-01	TOTAL ORGANIC CARBON	MG/L	1
704386-02	TOTAL ORGANIC CARBON	MG/L	2
704386-03	TOTAL ORGANIC CARBON	MG/L	2
704386-04	TOTAL ORGANIC CARBON	MG/L	2
704386-05	TOTAL ORGANIC CARBON	MG/L	1
704386-06	TOTAL ORGANIC CARBON	MG/L	2
704386-07	TOTAL ORGANIC CARBON	MG/L	2

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TOW046
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 07-MAY-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	LP	

Comments:

American Environmental Network, Inc.

"QC Report"

Title: Water Reagent
Batch: TOW046
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

RS Date Analyzed: 07-MAY-97
RSD Date Analyzed: 07-MAY-97

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	6.4	96	6.5	97	1	30	71-127

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

American Environmental Network, Inc.

"QC Report"

Title: Water Matrix
Batch: TOW046
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 704587-1

MS Date Analyzed: 09-MAY-97
MSD Date Analyzed: 09-MAY-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	1	8.3	109	8.5	112	3	30	51-135

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

American Environmental Network, Inc.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG = MICROGRAMS
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/M3 = MILLIGRAM PER CUBIC METER.
PPMV = PART PER MILLION BY VOLUME.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
PL = PAUL LESCHENSKY
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
RP = ROB PEREZ
JBT = JENNIFER TORRANCE
LP = LAVERNE PETERSON
PLD = PAULA DOUGHTY

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	001	Sample Date/Time:	24-APR-97 0918
Client Sample Id:	704386-01	Received Date:	26-APR-97
Batch: TXW022		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	20-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.01	0.01	
ANALYST	INITIALS	KL		

Comments:

005422

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	002	Sample Date/Time:	24-APR-97 0930
Client Sample Id:	704386-02	Received Date:	26-APR-97
Batch: TXW022		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	20-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	KL		

Comments:

005423

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: B

Lab Id: 003
Client Sample Id: 704386-03

Sample Date/Time: 24-APR-97 1042
Received Date: 26-APR-97

Batch: TXW022
Blank: A
Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 20-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.78	0.01	
ANALYST	INITIALS	KL		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	004	Sample Date/Time:	24-APR-97 1016
Client Sample Id:	704386-04	Received Date:	26-APR-97
Batch: TXW022		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	20-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.45	0.01	
ANALYST	INITIALS	KL		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: B

Lab Id: 005
Client Sample Id: 704386-05
Sample Date/Time: 24-APR-97 1153
Received Date: 26-APR-97

Batch: TXW022
Blank: B
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 21-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.08	0.01	
ANALYST	INITIALS	KL		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: B

Lab Id: 006
Client Sample Id: 704386-06

Sample Date/Time: 24-APR-97 1125
Received Date: 26-APR-97

Batch: TXW022
Blank: B Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 21-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.10	0.01	
ANALYST	INITIALS	KL		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	007	Sample Date/Time:	24-APR-97 1522
Client Sample Id:	704386-07	Received Date:	26-APR-97
Batch: TXW022		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	21-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	3.6	0.01	
ANALYST	INITIALS	KL		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	008	Sample Date/Time:	24-APR-97 0900
Client Sample Id:	704386-08	Received Date:	26-APR-97
Batch: TXW022		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	21-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	KL		

Comments:

American Environmental Network, Inc.

"FINAL REPORT FORMAT - SINGLE"

Accession:	704461
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	704386
Project Name:	SPARTON
Project Location:	N/S
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	B

Lab Id:	009	Sample Date/Time:	17-APR-97 1520
Client Sample Id:	704386-09	Received Date:	26-APR-97
Batch: TXW022		Extraction Date:	N/A
Blank: C	Dry Weight %: N/A	Analysis Date:	22-MAY-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	KL		

Comments:

American Environmental Network, Inc.

"Method Report Summary"

Accession Number: 704461
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 704386
Project Name: SPARTON
Project Location: N/S
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
704386-01	TOTAL ORGANIC HALIDES	MG/L	0.01
704386-03	TOTAL ORGANIC HALIDES	MG/L	0.78
704386-04	TOTAL ORGANIC HALIDES	MG/L	0.45
704386-05	TOTAL ORGANIC HALIDES	MG/L	0.08
704386-06	TOTAL ORGANIC HALIDES	MG/L	0.10
704386-07	TOTAL ORGANIC HALIDES	MG/L	3.6

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TXW022
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 20-MAY-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	KL	

Comments:
NOT ENOUGH SAMPLE SUBMITTED TO EXTRACT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TXW022
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: B Date Analyzed: 21-MAY-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	KL	

Comments:
NOT ENOUGH SAMPLE SUBMITTED TO EXTRACT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

American Environmental Network, Inc.

"QC Report"

Title: Water Blank
Batch: TXW022
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: C Date Analyzed: 22-MAY-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	KL	

Comments:
NOT ENOUGH SAMPLE SUBMITTED TO EXTRACT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

American Environmental Network, Inc.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG = MICROGRAMS
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/M3 = MILLIGRAM PER CUBIC METER.
PPMV = PART PER MILLION BY VOLUME.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
PL = PAUL LESCHENSKY
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
RP = ROB PEREZ
JBT = JENNIFER TORRANCE
LP = LAVERNE PETERSON
PLD = PAULA DOUGHTY

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGY, INC. AEN I.D.: 704386
PROJECT # : 42497
PROJECT NAME : 2Q97-AGMP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-19	AQUEOUS	2/24/97	NA	4/26/97	1
02	MW-20	AQUEOUS	4/24/97	NA	4/26/97	1
03	MW-14	AQUEOUS	4/24/97	NA	4/26/97	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	< 0.5	< 0.5	**2.7**
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	**UG/L**	< 0.3	< 0.3	< 0.5 (D1)
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**0.6**	< 0.2	**33 (D5)**
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	< 0.5	< 0.5	**1.9 (D1)**
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	< 1.0	< 1.0	**8.1 (D1)**
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	< 0.2	< 0.2	**0.9 (D1)**
TRICHLOROETHENE	0.3	**UG/L**	**9.4**	< 0.3	**570 (D100)**
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			102	107	99
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D1) 1X ANALYZED 4/29/97
(D5) 5X ANALYZED 5/2/97
(D100) 100X ANALYZED 5/5/97

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGY, INC. AEN I.D.: 704386
PROJECT # : 42497
PROJECT NAME : 2Q97-AGMP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	MW-9	AQUEOUS	4/24/97	NA	4/27/97	1
05	MW-22	AQUEOUS	4/24/97	NA	4/27/97	1
06	MW-21	AQUEOUS	4/24/97	NA	4/29/97	5

PARAMETER	DET. LIMIT	UNITS	04	05	06
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 1.0
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 2.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 5.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 1.0
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 2.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 2.5
CHLOROFORM	0.5	UG/L	2.3	0.5	< 2.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 5.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 1.0
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 1.0
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 2.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 2.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 2.5
1,1-DICHLOROETHANE	0.3	UG/L	2.2 (D1)	< 0.3	< 1.5
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 2.5
1,1-DICHLOROETHENE	0.2	UG/L	99 (D10)	11	2.8
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 1.0
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 5.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 1.0
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 1.0
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 1.0
METHYLENE CHLORIDE	2.0	UG/L	110 J D(100)	< 2.0	< 10.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 2.5
TETRACHLOROETHENE	0.5	UG/L	2.5	1.1	< 2.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	100 (D10)	37 (D5)	34 (D5)
1,1,2-TRICHLOROETHANE	0.2	UG/L	0.8	< 0.2	< 1.0
TRICHLOROETHENE	0.3	UG/L	580 (D100)	74 (D5)	99 (D5)
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 1.0
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 2.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			109	105	109
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D10) 10X ANALYZED 4/28/97
(D100) 100X ANALYZED 4/29/96
(D5) ANALYZED 4/29/97
(D1) 1X ANALYZED 4/29/97

J = COMPOUND OF INTEREST IS PRESENT BUT BELOW DETECTION LIMIT

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGY, INC. AEN I.D.: 704386
PROJECT # : 42497
PROJECT NAME : 2Q97-AGMP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	MW-16	AQUEOUS	4/24/97	NA	4/29/97	1
08	PZ-2	AQUEOUS	4/24/97	NA	5/2/97	1
09	TRIP BLANK	AQUEOUS	4/17/97	NA	4/29/97	1

PARAMETER	DET. LIMIT	UNITS	07	08	09
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	UG/L	3.0	4.2	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	2.1	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	UG/L	82(D100)	< 0.2	< 0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	UG/L	90 (D100)	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	1200 (D100)	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	5300(D1000)	19 (D10)	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			89	107	108
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D10) 10X ANALYZED 4/29/97
(D100) 100X ANALYZED 5/2/97
(D1000) 1000X ANALYZED 5/7/97

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 042697	AEN I.D.	: 704386
CLIENT	: SPARTON TECHNOLOGY, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 42497	DATE ANALYZED	: 4/26/97
PROJECT NAME	: 2Q97-AGMP	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		101
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 042697B	AEN I.D.	: 704386
CLIENT	: SPARTON TECHNOLOGY, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 42497	DATE ANALYZED	: 4/26/97
PROJECT NAME	: 2Q97-AGMP	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5
SURROGATE:		
BROMOCHLOROMETHANE (%)		99
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 042897	AEN I.D.	: 704386
CLIENT	: SPARTON TECHNOLOGY, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 42497	DATE ANALYZED	: 4/28/97
PROJECT NAME	: 2Q97-AGMP	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		105
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A
N/A

American Environmental Network, Inc.

REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 042997	AEN I.D.	: 704386
CLIENT	: SPARTON TECHNOLOGY, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 42497	DATE ANALYZED	: 4/29/97
PROJECT NAME	: 2Q97-AGMP	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		111
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:

N/A

American Environmental Network, Inc.

REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 050297B	AEN I.D.	: 704386
CLIENT	: SPARTON TECHNOLOGY, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 42497	DATE ANALYZED	: 5/2/97
PROJECT NAME	: 2Q97-AGMP	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		103
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:

N/A

American Environmental Network, Inc.

REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 050597	AEN I.D.	: 704386
CLIENT	: SPARTON TECHNOLOGY, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 42497	DATE ANALYZED	: 5/5/97
PROJECT NAME	: 2Q97-AGMP	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		112
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:

N/A

American Environmental Network, Inc.

REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 050797	AEN I.D.	: 704386
CLIENT	: SPARTON TECHNOLOGY, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 42497	DATE ANALYZED	: 5/7/97
PROJECT NAME	: 2Q97-AGMP	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		110
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:

N/A

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY - QUALITY CONTROL
MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8010)		
MSMSD #	: 704386-02	AEN I.D.	: 704386
CLIENT	: SPARTON TECHNOLOGY, INC.	DATE EXRACTED	: 4/28/97
PROJECT #	: 42497	DATE ANALYZED	: 4/28/97
PROJECT NAME	: 2Q97-AGMP	SAMPLE MATRIX	: AQUEOUS
		UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	12.3	123	12.0	120	2	(87 - 124)	20
1,1-DICHLOROETHENE	<0.2	10.0	9.0	90	9.6	96	6	(44 - 99)	20
TRICHLOROETHENE	<0.3	10.0	11.1	111	11.4	114	3	(89 - 127)	20

CHEMIST NOTES:
N/A

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

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

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

CHAIN OF CUSTODY

DATE: 4-24-97 PAGE: 1 OF 1

AEN LAB ID: 704386

SHADED AREAS ARE FOR AEN USE ONLY

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TEHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	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)	TOX	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	TOC	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	pH	General Chemistry: Specific Conductance	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	
MW-19	4-24-97	0918	H_2O	-01								X	X					X				X	X						
MW-20	"	0930	"	-02								X	X					X				X	X						
MW-14	"	1042	"	-03								X	X					X				X	X						
MW-9	"	1016	"	-04								X	X					X				X	X						
MW-22	"	1153	"	-05								X	X					X				X	X						
MW-21	"	~~1016~~ 1125	"	-06								X	X					X				X	X						
MW-16	"	1522	"	-07								X	X					X				X	X						
PZ-2	4-24-97	0900	"	-08								X	X					X				X	X						
Trip Blank	4-17-97	1520	"	-09								X	X					X				X	X						
~~Trip Blank~~		~~1016~~																											

→ This space Blank ←

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION

PROJ. NO.: 042497
PROJ. NAME: 2Q97-AGMP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒
CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER
METHANOL PRESERVATION ☐
COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From field

RELINQUISHED BY: 1
Signature: [signature] Time: 1536
Printed Name: John Wakefield Date: 4-24-97
Company: S.T.I. 892-5300

RELINQUISHED BY: 2
Signature: [signature] Time: 1650
Printed Name: Don A. Gutierrez Date: 4-24-97
Company: STI

RECEIVED BY:
Signature: [signature] Time: 1536
Printed Name: Don Gutierrez Date: 4-24-97
Company: STI

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 04-25-97 PAGE: ___ OF ___

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

704461

CLIENT PROJECT MANAGER: Kim McNeill

005448

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)			TOX	TOC	Gen Chemistry	Conductance		Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
704386 - 01	4/24/97	9:18	AQ								X	X		X																			
-02		9:30									X	X		X																			
-03		1042									X	X		X																			
-04		1016									X	X		X																			
-05		1153									X	X		X																			
-06		1125									X	X		X																			
-07		1522									X	X		X																			
-09		0900									X	X		X																			
-09	04/17/97	1520									X	X		X																			

PROJECT INFORMATION	
PROJECT NUMBER:	704386
PROJECT NAME:	Sparton
QC LEVEL:	(STD.) IV
QC REQUIRED:	MS MSD BLANK
TAT	(STANDARD) RUSH

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

SAMPLES SENT TO:	
SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

DUE DATE: 04-05-07-97
RUSH SURCHARGE: _____
CLIENT DISCOUNT: _____
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1700	Signature: Time
Printed Name: Brian Price Date: 04-25-97	Printed Name: Date
Albuquerque NM	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Linda Kilt Time: 1000	Signature: Time:
Printed Name: Linda Kilt Date: 4/26/97	Printed Name: Date:
Company: AEN/71	Company:

American Environmental Network of Florida

PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 704461 Date Received: 26-APR-97

1. Was there a Chain of Custody? (Yes) No♣
2. Was Chain of Custody properly filled out and relinquished? (Yes) No♣
3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) (Yes) No♣ N/A
4. Were all samples properly labeled and identified? (Yes) No♣
5. Did samples require splitting? Yes♦ (No)
   Req By: PM Client Other♦
6. Were samples received in proper containers for analysis requested? (Yes) No♣
7. Were all sample containers received intact? (Yes) No♣
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+ (Yes) No♣ N/A
9. Is there sufficient volume for analysis requested? (Yes) No♣
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) (Yes) No♣
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes♣ No (N/A)
12. If sent, were matrix spike bottles returned? Yes No♣ (N/A)
13. Was Project Manager notified of problems? (initials:_____) Yes No♣ (N/A)

Airbill Number(s): _____

Shipped By: Fedex

Cooler Number(s): _____

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 4°C

CCK 3

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: L. Kitt Date 26-APR-97 Logged By: L. Kitt Date 26-APR-97

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

♦ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

SECTION 11

THIRD QUARTER, 1997

LABORATORY REPORT

005450

American Environmental Network, Inc.

Received 10-29-97
Add. tra to 708371

October 25, 1997

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

John,

Per your memo and our phone conversation, we have addressed and/or corrected various items on Accession #'s: 708371; 708376; and 708375. The corrections are attached.

708371

1. The inspection form is corrected by striking the reference to hexavalent chrome. These samples were shipped to a different lab (in hold-time) so the data is complete and in compliance.

2. In the Pensacola format, the extraction dates can be determined by cross referencing the batch number to its QC and noting the date(s).

3. As discussed on the phone, nitrate is determined by subtracting nitrite from the total value (nitrate-nitrite). Pensacola reports out all three values.

708376

1. Addressed above (708371/ Q2 & Q3).

2. Corrected report has been sent separately.

708375

1. Addressed above (708371/ Q2).

005451

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

2. A case narrative will be added indicating pH analysis was delayed unnecessarily by inter-lab miscommunication. Basically, Albuquerque ← Not true performed pH on all samples that had an isolated bottle for pH on August 21, 1997. MW-16 requested pH and conductivity from the same vial. It was indicated by Albuquerque on the InterLab Chain-of-Custody that the unpreserved bottle sent to Pensacola for nitrate should also have been analyzed for pH. This was missed by Pensacola and the pH analysis was performed when the conductivity sample arrived on August 26. We apologize for this miscommunication and would have performed the additional pH in Albuquerque in retrospect.

We appreciate you as our client and will take every measure to assure you that your project(s) is given our highest priority. If you have any other questions or further concerns, please do not hesiate to contact Kim or me.

Thanks for your patience and understanding.

Sincerely,

Mitch Rubenstein

Mitch Rubenstein, Ph.D.
General Manager

Seperate sample bottles for Elec Cond + pH on MW-16 were sent, see CofC for - 708375

American Environmental Network, Inc.

AGMP - 3Q 1997
Annual Parameters.
MW-19, 20, TB PZ-2 = Field Blank
MW-9 Rec 9-22-97

AEN I.D. 708371

September 12, 1997

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124

Project Name AGMP-3Q97-AP
Project Number 082097-A

Attention: JOHN M. WAKEFIELD

On 8/20/97 American Environmental Network (NM), 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 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

Hexavalent Chromium was performed by American Environmental Network (AZ) Inc., Phoenix, AZ.

All other parameters were performed by American Environmental Network (FL) Inc., Pensacola, FL.

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

005453

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708371
PROJECT #	: 082097-A	DATE RECEIVED	: 8/20/97
PROJECT NAME	: AGMP-3Q97-AP	REPORT DATE	: 9/12/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-19	AQ	8/20/97
02	MW-20	AQ	8/20/97
03	TRIP BLANK	AQ	8/7/97
04	PZ-2	AQ	8/20/97
05	MW-9	AQ	8/20/97

005454

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-01	MW-19	AQUEOUS	8/20/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	**1.0**	**ug/L**
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**13**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-01	MW-19	AQUEOUS	8/20/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	106	(76 - 114)
Toluene-d8	96	(88 - 110)
Bromofluorobenzene	100	(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-02	MW-20	AQUEOUS	8/20/97	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**1.1**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-02	MW-20	AQUEOUS	8/20/97	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	106 (76 - 114)
Toluene-d8	95 (88 - 110)
Bromofluorobenzene	102 (86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-03	TRIP BLANK	AQUEOUS	8/7/97	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	**2.0**	**ug/L**
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-03	TRIP BLANK	AQUEOUS	8/7/97	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	103 (76 - 114)
Toluene-d8	91 (88 - 110)
Bromofluorobenzene	110 (86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-04	PZ-2	AQUEOUS	8/20/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	**1.4**	**ug/L**
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	**1.1**	**ug/L**
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-04	PZ-2	AQUEOUS	8/20/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	101 (76 - 114)
Toluene-d8	97 (88 - 110)
Bromofluorobenzene	96 (86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-05	MW-9	AQUEOUS	8/20/97	N/A	08/21/97	5

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 5.0	ug/L
Chloromethane	1.0	< 5.0	ug/L
Vinyl Chloride	1.0	< 5.0	ug/L
Bromomethane	1.0	< 5.0	ug/L
Chloroethane	1.0	< 5.0	ug/L
Trichlorofluoromethane	1.0	< 5.0	ug/L
Acetone	10	< 50	ug/L
1,1-Dichloroethene	1.0	**32**	**ug/L**
Iodomethane	1.0	< 5.0	ug/L
Methylene Chloride	1.0	**93**	**ug/L**
cis-1,2-Dichloroethene	1.0	< 5.0	ug/L
1,1-Dichloroethane	1.0	< 5.0	ug/L
trans-1,2-Dichloroethene	1.0	< 5.0	ug/L
2-Butanone	10	< 50	ug/L
Carbon Disulfide	1.0	< 5.0	ug/L
Chloroform	1.0	< 5.0	ug/L
1,2-Dichloroethane	1.0	< 5.0	ug/L
Vinyl Acetate	1.0	< 5.0	ug/L
1,1,1-Trichloroethane	1.0	**36**	**ug/L**
Carbon Tetrachloride	1.0	< 5.0	ug/L
Benzene	1.0	< 5.0	ug/L
1,2-Dichloropropane	1.0	< 5.0	ug/L
Trichloroethene	1.0	**390**	**ug/L**
Bromodichloromethane	1.0	< 5.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 50	ug/L
cis-1,3-Dichloropropene	1.0	< 5.0	ug/L
trans-1,3-Dichloropropene	1.0	< 5.0	ug/L
1,1,2-Trichloroethane	1.0	< 5.0	ug/L
Toluene	1.0	< 5.0	ug/L
1,2-Dibromoethane	1.0	< 5.0	ug/L
4-Methyl-2-Pentanone	10	< 50	ug/L
2-Hexanone	10	< 50	ug/L
Dibromochloromethane	1.0	< 5.0	ug/L
Tetrachloroethene	1.0	< 5.0	ug/L
Chlorobenzene	1.0	< 5.0	ug/L
Ethylbenzene	1.0	< 5.0	ug/L
m&p Xylenes	1.0	< 5.0	ug/L
o-Xylene	1.0	< 5.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-05	MW-9	AQUEOUS	8/20/97	N/A	08/21/97	5

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 5.0	ug/L
Bromoform	1.0	< 5.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 5.0	ug/L
1,3-Dichlorobenzene	1.0	< 5.0	ug/L
1,4-Dichlorobenzene	1.0	< 5.0	ug/L
1,2-Dichlorobenzene	1.0	< 5.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	114	(76 - 114)
Toluene-d8	88	(88 - 110)
Bromofluorobenzene	100	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-06	REF BLANK	AQUEOUS	8/7/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichioroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A	DATE RECEIVED :	8/20/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708371-06	REF BLANK	AQUEOUS	8/7/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT	UNITS

REFRIGERATOR BLANK RUN IN LIEU OF A TRIP BLANK. TRIP BLANK WAS NOT REVEIVED BY LABORATORY, BUT REFRIGERATOR BLANK MADE AT SAME TIME.

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	104
	(76 - 114)
Toluene-d8	93
	(88 - 110)
Bromofluorobenzene	91
	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082197	AQUEOUS	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082197	AQUEOUS	N/A	08/21/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	98	(76 - 114)
Toluene-d8	106	(88 - 110)
Bromofluorobenzene	96	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082597	AQUEOUS	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082597	AQUEOUS	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	105	(76 - 114)
Toluene-d8	88	(88 - 110)
Bromofluorobenzene	111	(86 - 115)

American Environmental Network, Inc.

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\8260822.M (RTE Integrator)
Title : AEN New Mexico GC/MS
Last Update : Wed Aug 27 08:03:24 1997
Response via : Initial Calibration

Non-Spiked Sample: 082697B1.D

	Spike Sample	Spike Duplicate Sample
File ID :	082697S1.D	082697S2.D
Sample :	BS	BS
Acq Time:	26 Aug 97 3:49 pm	26 Aug 97 4:23 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	48	49	97	99	2	14	61-145
Benzene	0.1	50	49	50	97	101	3	11	76-127
Trichloroethene	0.0	50	50	53	100	106	6	14	71-120
Toluene	0.2	50	53	47	106	93	13	13	76-125
Chlorobenzene	0.1	50	51	52	103	104	2	13	75-130

- Fails Limit Check

8260822.M Wed Aug 27 08:13:57 1997

American Environmental Network, Inc.

AEN I.D. 708348

August 26, 1997

American Environmental Network-NM
2709-D Pan American Frwy, Ne
Albuquerque, NM 87107

Project Name/Number: AGMP-3097-AP/082097-A

Attention: Kimberly D. McNeill

On 08/20/97, American Environmental Network (Arizona), Inc., received a request to analyze aqueous sample(s). The sample(s) 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 (602) 496-4400.

Linda Eshelman
Project Manager
LE/acc
Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

American Environmental Network, Inc.

CLIENT : AMERICAN ENV. NETWORK OF NM, INC. DATE RECEIVED : 08/20/97
PROJECT # : 708371
PROJECT NAME : AGMP-3097-AP REPORT DATE : 08/26/97
ATI I.D. : 708348

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	708371-01	AQUEOUS	08/20/97
02	708371-02	AQUEOUS	08/20/97
03	708371-03	AQUEOUS	08/20/97
04	708371-04	AQUEOUS	08/20/97
05	708371-05	AQUEOUS	08/20/97

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	5

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 our sample control department before the scheduled disposal date.

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 708348

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708371
PROJECT NAME : AGMP-3097-AP

DATE RECEIVED : 08/20/97
REPORT DATE : 08/26/97

PARAMETER	UNITS	01	02	03	04	05
CHROMIUM HEXAVALENT (SM 3500	MG/L	<0.02	<0.02	<0.02	<0.02	<0.02

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708371
PROJECT NAME : AGMP-3097-AP ATI I.D. : 708348

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM HEXAVALENT	MG/L	70834801	<0.02	<0.02	NA	0.15	0.15	100

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

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

American Environmental Network, Inc.

DATE OF ANALYSIS REPORT

AEN ID: 708348

26-Aug-97

METHOD	SAMPLE #	DATE	ANALYST
CHROMIUM HEXAVALENT (SM 3500 CR D)	01	08/20/97	CARLENE MCCUTCHEON
	02	08/20/97	CARLENE MCCUTCHEON
	03	08/20/97	CARLENE MCCUTCHEON
	04	08/20/97	CARLENE MCCUTCHEON
	05	08/20/97	CARLENE MCCUTCHEON

Standard Methods for the Examination of Water and Wastewater, 1989, 17th Ed.

005476

AEN NO. 100570

American Environmental Network (NM), Inc.

Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-20-97 PAGE: 1 OF 1

AEN LAB I.D. 708357

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd, NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX 1	(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)	Nitrate as N 2	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS 3	Volatile Organics (8260) GC/MS	TKN 1	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec. Cond. Cl, SO4 1	General Chemistry:	pH 1	Cr+6 1	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3	TOC	NO. OF CONTAINERS
MW-19	8-20-97	1417	H_2O	01			X							X			X		X				X		X	X					X	X	5
MW-20	"	1504	"	02			X							X			X		X				X		X	X					X	X	5
Trip Blank	8-7-97	11:55	H_2O	03			X							X			X		X				X		X	X					X	X	2
PZ-2	8-20-97	1355	H_2O	04			X							X			X		X				X		X	X					X	X	5
MW-9	"	1525	"	05			X							X			X		X				X		X	X			005477		X	X	5

PROJECT INFORMATION

PROJ. NO.: AGMP-082097-A
PROJ. NAME: AGMP-3097-AP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT
NO. OF CONTAINERS
GOOD CONDITION
RECEIVED INTACT
BLUE ICE/ICE 8

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler
Recived By
Corrina L Dewey 1840
Corrina L Dewey 8/20/97
From Field Direct

RELINQUISHED BY: 1.
Signature: [signature] Time: 1355
Printed Name: John Wakefield Date: 8-20-97
Company: S.T.I. 892-5300

RECEIVED BY:
Signature: [signature] Time: 1555
Printed Name: Peter H Metzler Date: 8-20-97
Company: METRIC

RELINQUISHED BY: 2.
Signature: [signature] Time: 1627
Printed Name: Peter H Metzler Date: 8-20-97
Company: METRIC

RECEIVED BY:

4/1/96 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107

DISTRIBUTION: White, Canary - AEN Pink - ORIGINATOR

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE 8-20-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)			TOX	TOC	Gen Chemistry	Hexavalent Cr	Cr+2	Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta			005478	NUMBER OF CONTAINERS
708371-01	8-20-97	1417	AQ												X																		
-02		1504													X																		
-03	8-7-97	11:55													X																		
-04	8-20-97	1355													X																		
-05		1525													X																		

PROJECT INFORMATION

PROJECT NUMBER: 708371-01
Sparkler tech

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS
CHAIN OF CUSTODY SEALS

SPECIAL INSTRUCTIONS: YES NO

SAMPLES SENT TO:

SAN DIEGO
Paragon

RELINQUISHED BY: 1.

Signature: Time: 1700
Printed Name: Date: 8-20-97

RELINQUISHED BY: 2.

Signature Time
Printed Name Date

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	708371
Project Location:	AGMP-3Q97-AP
Accession Number:	708344
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708344
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708371-01			Lab ID: 001		
PH (150.1)	UNITS	7.6	NA	PHW174	
Comments:					
Client ID: 708371-02			Lab ID: 002		
PH (150.1)	UNITS	7.8	NA	PHW174	
Comments:					
Client ID: 708371-03			Lab ID: 003		
PH (150.1)	UNITS	5.8	NA	PHW174	
Comments:					
Client ID: 708371-04			Lab ID: 004		
PH (150.1)	UNITS	5.8	NA	PHW174	
Comments:					
Client ID: 708371-05			Lab ID: 005		
PH (150.1)	UNITS	7.7	NA	PHW174	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client ID:	Lab Matrix: ID:	Date/Time Sampled:	Date Received:
708371-01	001 WATER	20-AUG-97 1417	21-AUG-97
708371-02	002 WATER	20-AUG-97 1504	21-AUG-97
708371-03	003 WATER	20-AUG-97 1155	21-AUG-97
708371-04	004 WATER	20-AUG-97 1355	21-AUG-97
708371-05	005 WATER	20-AUG-97 1525	21-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	PH (150.1)	UNITS	7.6
708371-02	PH (150.1)	UNITS	7.8
708371-03	PH (150.1)	UNITS	5.8
708371-04	PH (150.1)	UNITS	5.8
708371-05	PH (150.1)	UNITS	7.7

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708344
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708371-01			Lab ID: 001		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.7	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	3.7	0.1	NONE	
Comments:					
Client ID: 708371-02			Lab ID: 002		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.3	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.3	0.1	NONE	
Comments:					
Client ID: 708371-03			Lab ID: 003		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					
Client ID: 708371-04			Lab ID: 004		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.1	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.1	0.1	NONE	
Comments:					
Client ID: 708371-05			Lab ID: 005		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W096	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50A	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client ID:	Lab Matrix: ID:	Date/Time Sampled:	Date Received:
708371-01	001 WATER	20-AUG-97 1417	21-AUG-97
708371-02	002 WATER	20-AUG-97 1504	21-AUG-97
708371-03	003 WATER	20-AUG-97 1155	21-AUG-97
708371-04	004 WATER	20-AUG-97 1355	21-AUG-97
708371-05	005 WATER	20-AUG-97 1525	21-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708344
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.7
	NITRATE, NITROGEN (353.2-354.1)	MG/L	3.7
708371-02	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.3
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.3
708371-04	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.1
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.1

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708344
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

American Environmental Network, Inc.

Preliminary Results
Final report will be issued following data review

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

Preliminary Results
Final report will be issued following data review

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708371
PROJECT #	: 082097-A		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	92	(76 - 114)
Toluene-d8	98	(88 - 110)
Bromofluorobenzene	90	(86 - 115)

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	PH
Batch Id:	PHW174
Blank Result:	N/A
Anal. Method:	150.1
Prep. Method:	N/A
Analysis Date:	21-AUG-97
Prep. Date:	21-AUG-97

Sample Duplication

Sample Dup:	708344-1
Rept Limit:	N/A
Sample Result:	7.59
Dup Result:	7.59
Sample RPD:	0
Max RPD:	0.12
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	N/A
Rept Limit:	N/A
Sample Result:	
Spiked Result:	
Spike Added:	
% Recovery:	
% Rec Limits:	
Dry Weight%	

ICV

ICV Result:	10.04
True Result:	10.00
% Recovery:	100
% Rec Limits:	90-110

LCS

LCS Result:	7.01
True Result:	6.87
% Recovery:	102
% Rec Limits:	96-104

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708344
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 29-Aug-97

"WetChem Quality Control Report"

Parameter:	NO2	NO2NO3
Batch Id:	N2W096	N3W50A
Blank Result:	<0.1	<0.1
Anal. Method:	354.1	353.2
Prep. Method:	N/A	N/A
Analysis Date:	21-AUG-97	27-AUG-97
Prep. Date:	21-AUG-97	27-AUG-97

Sample Duplication

Sample Dup:	708344-4	708302-1
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	<0.1
Dup Result:	<0.1	<0.1
Sample RPD:	N/C	N/C
Max RPD:	0.1	0.1
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	708344-4	708302-1
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	<0.1
Spiked Result:	0.21	1.05
Spike Added:	0.20	1.00
% Recovery:	105	105
% Rec Limits:	85-117	70-127
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.20	2.01
True Result:	0.20	2.00
% Recovery:	100	101
% Rec Limits:	90-110	90-110

LCS

LCS Result:		
True Result:		
% Recovery:		
% Rec Limits:		

----- Common Footnotes WetChem -----

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METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
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RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708344 Date Received: 21-Aug-97

1. Was there a Chain of Custody? (Yes) No*
2. Was Chain of Custody properly filled out and relinquished? (Yes) No*
3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) (Yes) No* N/A
4. Were all samples properly labeled and identified? (Yes) No*
5. Did samples require splitting? Yes* (No) Req By: PM Client Other*
6. Were samples received in proper containers for analysis requested? (Yes) No*
7. Were all sample containers received intact? (Yes) No*
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+ (Yes) No* N/A
9. Is there sufficient volume for analysis requested? (Yes) No*
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) (Yes) No*
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No (N/A)
12. If sent, were matrix spike bottles returned? Yes No* (N/A)
13. Was Project Manager notified of problems? (initials:_____) Yes No* (N/A)

Airbill Number(s): 291 8404 456

Shipped By: FEDEX

Cooler Number(s): N/S Client Cooler

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 3°C - CCK4

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PJC Date: 8/21/97 Logged By: PJC Date: 8/21/97

* *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

◆ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	708371
Project Location:	AGMP-3Q97-AP
Accession Number:	708383
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708371-01			Lab ID: 001		
CHLORIDE (325.3)	MG/L	19	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	750	1	CDW018	
SULFATE (375.4)	MG/L	120	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708371-02			Lab ID: 002		
CHLORIDE (325.3)	MG/L	18	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	640	1	CDW018	
SULFATE (375.4)	MG/L	86	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708371-03			Lab ID: 003		
CHLORIDE (325.3)	MG/L	2	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	4	1	CDW018	
SULFATE (375.4)	MG/L	ND	10	SEW069	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708371-04			Lab ID: 004		
CHLORIDE (325.3)	MG/L	2	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	3	1	CDW018	
SULFATE (375.4)	MG/L	ND	10	SEW069	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708371-05			Lab ID: 005		
CHLORIDE (325.3)	MG/L	6	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	660	1	CDW018	
SULFATE (375.4)	MG/L	100	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	0.8	0.5	TAW41D	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client ID:	Lab Matrix: ID:	Date/Time Sampled:	Date Received:
708371-01	001 WATER	20-AUG-97 1417	22-AUG-97
708371-02	002 WATER	20-AUG-97 1504	22-AUG-97
708371-03	003 WATER	20-AUG-97 1155	22-AUG-97
708371-04	004 WATER	20-AUG-97 1355	22-AUG-97
708371-05	005 WATER	20-AUG-97 1525	22-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	CHLORIDE (325.3)	MG/L	19
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	750
	SULFATE (375.4)	MG/L	120
708371-02	CHLORIDE (325.3)	MG/L	18
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	640
	SULFATE (375.4)	MG/L	86
708371-03	CHLORIDE (325.3)	MG/L	2
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	4
708371-04	CHLORIDE (325.3)	MG/L	2
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	3
708371-05	CHLORIDE (325.3)	MG/L	6
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	660
	SULFATE (375.4)	MG/L	100
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	0.8

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708371-01			Lab ID:001		
BORON (200.7)	MG/L	0.13	0.09	O0W214	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W214	
MANGANESE (200.7)	MG/L	0.01	0.01	G0W214	
SODIUM (200.7)	MG/L	52	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					
Client ID: 708371-02			Lab ID:002		
BORON (200.7)	MG/L	ND	0.09	O0W214	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W214	
MANGANESE (200.7)	MG/L	0.83	0.01	G0W214	
SODIUM (200.7)	MG/L	42	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					
Client ID: 708371-03			Lab ID:003		
BORON (200.7)	MG/L	ND	0.09	O0W214	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W214	
MANGANESE (200.7)	MG/L	ND	0.01	G0W214	
SODIUM (200.7)	MG/L	ND	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					
Client ID: 708371-04			Lab ID:004		
BORON (200.7)	MG/L	ND	0.09	O0W214	
CHROMIUM (200.7)	MG/L	0.03	0.01	H0W214	
MANGANESE (200.7)	MG/L	ND	0.01	G0W214	
SODIUM (200.7)	MG/L	ND	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					
Client ID: 708371-05			Lab ID:005		
BORON (200.7)	MG/L	1.4	0.09	O0W214	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W214	
MANGANESE (200.7)	MG/L	0.02	0.01	G0W214	
SODIUM (200.7)	MG/L	64	0.2	10W214	
NICKEL (200.7)	MG/L	ND	0.02	E0W214	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
708371-01	001	WATER	20-AUG-97 1417	22-AUG-97
708371-02	002	WATER	20-AUG-97 1504	22-AUG-97
708371-03	003	WATER	20-AUG-97 1155	22-AUG-97
708371-04	004	WATER	20-AUG-97 1355	22-AUG-97
708371-05	005	WATER	20-AUG-97 1525	22-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	BORON (200.7)	MG/L	0.13
	MANGANESE (200.7)	MG/L	0.01
	SODIUM (200.7)	MG/L	52
708371-02	MANGANESE (200.7)	MG/L	0.83
	SODIUM (200.7)	MG/L	42
708371-04	CHROMIUM (200.7)	MG/L	0.03
708371-05	BORON (200.7)	MG/L	1.4
	MANGANESE (200.7)	MG/L	0.02
	SODIUM (200.7)	MG/L	64

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	001	Sample Date/Time:	20-AUG-97 1417
Client Sample Id:	708371-01	Received Date:	22-AUG-97
Batch: TOW079		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	28-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	002	Sample Date/Time:	20-AUG-97 1504
Client Sample Id:	708371-02	Received Date:	22-AUG-97
Batch: TOW079		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	28-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 003 Sample Date/Time: 20-AUG-97 1155
Client Sample Id: 708371-03 Received Date: 22-AUG-97

Batch: TOW079 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 28-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 004
Client Sample Id: 708371-04
Sample Date/Time: 20-AUG-97 1355
Received Date: 22-AUG-97

Batch: TOW079
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 28-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

AUG 25 '97 08:06AM AEN NEW MEXICO

American Environmental Network (NM), Inc.

Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376 / 708383

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX	(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)	Nitrate as N	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	TKN	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec Cond, Cl, SO4	General Chemistry:	pH	Cr+6	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+6	TOC	NUMBER OF CONTAINERS
MW-14	8-21-97	1500	H2O	-01			X							X			X		X				X		X	X					X	X	12
MW-21	"	1218	"	-02			X							X			X		X				X		X	X					X	X	12
MW-22	"	1358	"	-03			X							X			X		X				X		X	X					X	X	12

PROJECT INFORMATION

PROJ. NO.: 082197 - A2
PROJ. NAME: AGMP-3097-A2
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT
NO. CONTAINERS
CUSTODY SEALS
RECEIVED INTACT
BLUE ICE/ICE

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 ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.
Signature: [signature] Time: 4:31
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 4:31
Printed Name: [signature] Date: 8-21-97
American Environmental Network (NM), Inc.

American Environmental Network (NM), Inc.

Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-20-97 PAGE: 1 OF 1

AEN LAB I.D. 708383

SHADED AREAS ARE FOR AEN USE ONLY

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd, NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515 708383

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX 1	(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)	Nitrate as N 2	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS 3	Volatile Organics (8260) GC/MS	TKN 1	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Elec. Cond., Cl, SO4 1	General Chemistry:	pH 1	Cr+6 1	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3	TOC	NUMBER OF CONTAINERS
MW-19	8-20-97	1417	H2O	01			X							X			X		X				X		X	X					X	X	5
MW-20	"	1504	"	02			X							X			X		X				X		X	X					X	X	5
Trip Blank	8-7-97	11:55	H2O	03			X							X			X		X				X		X	X					X	X	5
PZ-2	8-20-97	1355	H2O	04			X							X			X		X				X		X	X					X	X	5
MW-9	"	1525	"	05			X							X			X		X				X		X	X					X	X	5

005512

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION

PROJ. NO.: AGMP-082097-A
PROJ. NAME: AGMP-3097-AP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field Direct

RELINQUISHED BY: 1

Signature: [signature] Time: 1355
Printed Name: John Wakefield Date: 8-20-97
Company: S.T.I. 892-5300

RECEIVED BY:

Signature: [signature] Time: 1555
Printed Name: Peter H Metzner Date: 8-20-97
Company: METRIC

RELINQUISHED BY: 2

Signature: [signature] Time: 1627
Printed Name: Peter H Metzner Date: 8-20-97
Company: METRIC

RECEIVED BY:

Signature: [signature]
Printed Name: [illegible]
Company: [illegible]

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-25 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

708383

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Ba, Ni, Na, Total Cr		TOX	TOC	Gen Chemistry: TKN, cond, chlor			Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta		005513		NUMBER OF CONTAINERS
708376-01	8-21	1500	AQ						X		X	X	X																				
-02		1214							X		X	X	X																				
-03		1358							X		X	X	X																				

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NUMBER:	~~Sparta~~ 708376	TOTAL NUMBER OF CONTAINERS	
PROJECT NAME:	Spartan technology	CHAIN OF CUSTODY SEALS	
QC LEVEL:	(BID) IV	INTACT?	
QC REQUIRED	MS MSD BLANK	RECEIVED GOOD COND/COLD	
TAT	(STANDARD) RUSH	LAB NUMBER	

DUE DATE: 9-3.
RUSH SURCHARGE:
CLIENT DISCOUNT:
CERTIFICATION REQUIRED: YES NO

Cr = Total cr

SAMPLES SENT TO:

SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.
Signature: Time: 1700
Printed Name: Brian Price Date: 8-25-97
Company: Albuquerque NM

RECEIVED BY: 1.
Signature: Time: 0800
Printed Name: Linda L. Kitt Date: 8/25/97
Company: AEN/71

RELINQUISHED BY: 2
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Time:
Printed Name: Date:
Company:

AUG 25 '97 08:07AM AEN NEW MEXICO P.7

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

708383

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Mn, Ni, Na, Cr^{+3}		TOX	TOC	Gen Chemistry: Conductivity, Cl, SO_4	TKN		Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta	005514			NUMBER OF CONTAINERS
708371-01	8-20	1417	AQ	1					X		X	X	X	X																			
-02		1504		2					X		X	X	X	X																			
-03		11:55		3					X		X	X	X	X																			
-04		1355		4					X		X	X	X	X																			
-05		1525		5					X		X	X	X	X																			

PROJECT INFORMATION	
PROJECT NUMBER:	708371
PROJECT NAME:	~~Sparton~~ Sparton
QC LEVEL:	(STD) IV
QC REQUIRED	MS MSD BLANK
TAT	(STANDARD) RUSH!

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

SAMPLES SENT TO:	
SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.
Signature: [signature] Time: 1700
Printed Name: Brian Price Date: 8-21-97
Albuquerque NM

RELINQUISHED BY: 2.
Signature: [signature] Time: 8/22/97
Printed Name: [signature] Date:
Company:

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 0823
Printed Name: R. ELSPERMAN Date: 8/22/97
Company: AEN FL

DUE DATE: 9-2-97
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

American Environmental Network (NM), Inc.

Albuquerque • Lubbock • Farmington • Roswell

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PLEASE FILL THIS FORM IN COMPLETELY.

COMPANY: SPARTON TECHNOLOGY, I
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons	(MOD.8015) Diesel/Diesel	TOX, TOC	(M8015) Gas/Purge &	Gasoline/BTEX & MTBE	BTXE/MTBE (8020)	BTEX & Chlorinated	BTEX/MTBE/EDC & EDB	Chlorinated Hydrocarbons	Nitrate plus	504 EDB	Polynuclear Aromatics	Volatile Organics (624)	Volatile Organics (E	TKN	Pesticides/PCB (608)	Herbicides (615/8151)	Base/Neutral/Acid Comp	pH Flex Cap	General Chemistry	Hardness, Ca	Carbonate, C	Priority Pollutant M	Target Analyte List	RCRA Metals (8)	RCRA Metals by T	Metals: B, Mn	Cr+6	NUMBER OF CONT.
MW-67	8-21-97	0928	H2O	-01										X			X							X	X	X							
MW-65	"	0928	"	-02										X			X							X	X	X							
MW-51	"	1128	"	-03										X			X							X	X	X							
MW-32	"	1111	"	-04										X			X							X	X	X							
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X					X	X	
Trip Blank	8-7-97	1205	"	-06													X																

PROJECT INFORMATION
PROJ. NO.: 082197-SEP
PROJ. NAME: SGMP-3097-EP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

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 ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.
Signature: Time: 4:30
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Time: 4:30
Printed Name: Brian Brown Date: 8-21-97
American Environmental Network (NM), Inc.

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr 72		TOX	TOC	Gen Chemistry			Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta	005516		NUMBER OF CONTAINERS
708375-05	8-21	1336	AQ	1					X																							

PROJECT INFORMATION
PROJECT NUMBER: 708375

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS
CUSTODY SEALS
COLD
708371

SAMPLES SENT TO:
SAN DIEGO
Paragon

RELINQUISHED BY: 1.
Signature: Time: 1700
Printed Name: Brian Pace Date: 8-21-97
Albuquerque NM

RECEIVED BY: 1.
Signature: Time:
Date:

RELINQUISHED BY: 2.
Signature Time
Printed Name: Date
Company

RECEIVED BY: (LAB) 2.
Time 1940
Corrina L Dewey
8-21-97
Corrina L Dewey
Company:

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708383 Date Received: 22-Aug-97

1. Was there a Chain of Custody? (Yes) No*
2. Was Chain of Custody properly filled out and relinquished? (Yes) No*
3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) (Yes) No* N/A
4. Were all samples properly labeled and identified? (Yes) No*
5. Did samples require splitting? Yes* (No)
   Req By: PM Client Other*
6. Were samples received in proper containers for analysis requested? (Yes) No*
7. Were all sample containers received intact? Yes (No*)
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+ (Yes) No* N/A
9. Is there sufficient volume for analysis requested? (Yes) No*
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) Yes (No*)
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No (N/A)
12. If sent, were matrix spike bottles returned? Yes No* (N/A)
13. Was Project Manager notified of problems? (initials:_____) Yes No* (N/A)

Airbill Number(s): 2949975691/2949975813

Shipped By: FEDEX

Cooler Number(s): N/S
Client Coolers

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 3°C-CCK3, 3°C-CCK6
(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

7. Sample 708371-01 was received with a broken cap, enough remained for analysis.
10. HXCR for all samples was received out of hold time.

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PHE Date: 8/22/97 Logged By: PHE Date: 8/22/97

- ♠ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*
- ♦ *Note who requested the splitting of samples on the Comment Section of this form.*
- \+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*
- * *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

Common Notation for Organic Reporting

I/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMV = PART PER MILLION BY VOLUME
MG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

"QC Report"

Title: Water Matrix
Batch: TXW042
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708464-1

MS Date Analyzed: 05-SEP-97
MSD Date Analyzed: 05-SEP-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.050	43.231	43.252	42*	43.251	40*	5	20	75-125

Surrogates:

Comments:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE HAD RECOVERY(S) AND/OR RPD(S) OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 05-Sep-97

"QC Report"

Title: Water Blank
Batch: TXW042
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 26-AUG-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	KL	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG = MICROGRAMS
JG/L = PARTS PER BILLION.
JG/KG = PARTS PER BILLION.
MG/M3 = MILLIGRAM PER CUBIC METER.
PPMV = PART PER MILLION BY VOLUME.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
< = LESS THAN.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TOW079
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708383-4

MS Date Analyzed: 28-AUG-97
MSD Date Analyzed: 28-AUG-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	7.0	104	7.0	104	0	30	51-135

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Reagent
Batch: TOW079
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

RS Date Analyzed: 28-AUG-97
RSD Date Analyzed: 28-AUG-97

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	7.1	106	7.0	104	2	30	71-127

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 29-Aug-97

"QC Report"

Title: Water Blank
Batch: TOW079
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 28-AUG-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	KL	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM ANALYSIS REPORT:
REPT LMTS = REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
REPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS. (NOT ADJUSTED FOR DRY WEIGHT).

SW-846, 3rd Edition, latest revision.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 4th Edition.
Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992.
Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JR = JOHN REED
LV = LASSANDRA VON APPEN

"Quality Control Comments"

Batch Id:	Comments:
O0W214	ANALYST: JLH
O0W214	The results reported under "Sample Duplication" are the MS/MSD.
H0W214	ANALYST: JLH
H0W214	The results reported under "Sample Duplication" are the MS/MSD.
G0W214	ANALYST: JLH
G0W214	The results reported under "Sample Duplication" are the MS/MSD.
G0W214	-
10W214	ANALYST: JLH
10W214	The results reported under "Sample Duplication" are the MS/MSD.
10W214	---
E0W214	ANALYST: JLH
E0W214	The results reported under "Sample Duplication" are the MS/MSD.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	BORON	CHROMIUM	MANGANESE	SODIUM	NICKEL
Batch Id:	O0W214	H0W214	G0W214	10W214	E0W214
Blank Result:	<0.09	<0.01	<0.01	<0.2	<0.02
Anal. Method:	200.7	200.7	200.7	200.7	200.7
Prep. Method:	200.7	200.7	200.7	200.7	200.7
Analysis Date:	08-SEP-97	08-SEP-97	08-SEP-97	08-SEP-97	08-SEP-97
Prep. Date:	29-AUG-97	29-AUG-97	29-AUG-97	28-AUG-97	29-AUG-97
Sample Duplication					
Sample Dup:	708383-2	708383-2	708383-2	708383-3	708383-2
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	2.1	2.0	2.8	61	1.9
Dup Result:	2.0	2.0	2.8	61	1.9
Sample RPD:	5	0	0	0	0
Max RPD:	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	708383-2	708383-2	708383-2	708383-3	708383-2
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	<0.09	<0.01	0.83	42	0.02
Spiked Result:	2.1	2.0	2.8	61	1.9
Spike Added:	2.0	2.0	2.0	20	2.0
% Recovery:	105	100	99	95	94
% Rec Limits:	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A
ICV					
ICV Result:	5.0	5.0	4.9	25	4.8
True Result:	5.0	5.0	5.0	25	5.0
% Recovery:	100	100	98	100	96
% Rec Limits:	90-110	90-110	90-110	90-110	90-110
LCS					
LCS Result:	1.9	2.0	2.0	20	1.9
True Result:	2.0	2.0	2.0	20	2.0
% Recovery:	95	100	100	100	95
% Rec Limits:	80-120	80-120	80-120	80-120	80-120

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	METALS

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

"Quality Control Comments"

Batch Id:	Comments:
CIW081	708438-1; 708457-2,5,6,10 WERE ADDED TO BATCH ON 27-AUG-97
SEW069	708440-1,2,3,4,5; 708437-1,2,3 WERE ADDED TO BATCH ON 28-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	CHLORIDE	CONDUCT'Y	SULFATE	TKN AUTO
Batch Id:	CIW081	CDW018	SEW069	TAW41D
Blank Result:	<1	<1	<10	<0.5
Anal. Method:	325.3	120.1	375.4	351.2
Prep. Method:	N/A	N/A	N/A	N/A
Analysis Date:	26-AUG-97	29-AUG-97	27-AUG-97	29-AUG-97
Prep. Date:	26-AUG-97	29-AUG-97	27-AUG-97	25-AUG-97
Sample Duplication				
Sample Dup:	708383-1	708383-3	708383-1	708383-1
Rept Limit:	<1	<1	<50+	<0.5
Sample Result:	18.7	4.4	116.5	<0.5
Dup Result:	18.9	4.4	115.5	<0.5
Sample RPD:	1	0G	1G	N/C
Max RPD:	6	1	50	0.5
Dry Weight%	N/A	N/A	N/A	N/A
Matrix Spike				
Sample Spiked:	708383-1	N/A	708383-1	708383-1
Rept Limit:	<1	N/A	<100+	<0.5
Sample Result:	18.7		116.5	<0.5
Spiked Result:	76.5		296.0	4.41
Spike Added:	55.0		200.0	4.00
% Recovery:	105		90	110
% Rec Limits:	88-113		64-150	64-122
Dry Weight%	N/A		N/A	N/A
ICV				
ICV Result:	93.5	1433	21.3	10.37
True Result:	100	1412	20.0	10.00
% Recovery:	94	101	107	104
% Rec Limits:	90-110	90-110	90-110	90-110
LCS				
LCS Result:				8.86
True Result:				10.00
% Recovery:				89
% Rec Limits:				67-114

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

"Method Report Summary"

Accession Number: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
708371-01	TOTAL ORGANIC HALIDES	MG/L	0.03
708371-02	TOTAL ORGANIC HALIDES	MG/L	0.01
708371-05	TOTAL ORGANIC HALIDES	MG/L	0.54

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 005
Client Sample Id: 708371-05
Sample Date/Time: 20-AUG-97 1525
Received Date: 22-AUG-97

Batch: TXW042
Blank: B
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 27-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.54	0.01	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 004
Client Sample Id: 708371-04
Sample Date/Time: 20-AUG-97 1355
Received Date: 22-AUG-97

Batch: TXW042
Blank: B
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 27-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 003 Sample Date/Time: 20-AUG-97 1155
Client Sample Id: 708371-03 Received Date: 22-AUG-97

Batch: TXW042 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 27-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 002 Sample Date/Time: 20-AUG-97 1504
Client Sample Id: 708371-02 Received Date: 22-AUG-97

Batch: TXW042 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 27-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.01	0.01	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 001
Client Sample Id: 708371-01
Sample Date/Time: 20-AUG-97 1417
Received Date: 22-AUG-97

Batch: TXW042
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 26-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.03	0.01	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708383
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708371
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
708371-02	TOTAL ORGANIC CARBON	MG/L	2
708371-05	TOTAL ORGANIC CARBON	MG/L	2

"FINAL REPORT FORMAT - SINGLE"

Accession: 708383
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708371
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 005
Client Sample Id: 708371-05
Sample Date/Time: 20-AUG-97 1525
Received Date: 22-AUG-97

Batch: TOW079
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 28-AUG-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	KL		

Comments:

American Environmental Network, Inc.

Received 10-29-97

AEN I.D. 708375

October 25, 1997

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124

Project Name SGMP-3Q-97-EP
Project Number 082197-SEP

Attention: JOHN M. WAKEFIELD

On 8/21/97 American Environmental Network (NM), 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.

Hexavalent Chromium analyses were performed by American Environmental Network (AZ) Inc., Phoenix, AZ.

EPA methods 8240 and 150.1 were performed by American Environmental Network (NM) Inc., Albuquerque, NM.

All other parameters were performed by American Environmental Network (FL) Inc., Pensacola, FL.

Due to a laboratory error, pH was measured three days after sampling. EPA specific guidelines indicate the hold-time as immediate. The quality of the data generated by the Pensacola lab must be compared to historical values. It should be noted that samples -1 through -4 compare favorably with the data generated by Albuquerque.

005544

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

Total dissolved residue is equivalent to total dissolved solids.

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

American Environmental Network, Inc.

Extra Parameters 3Q 1997
MW-67, 65, 51, 32, 16, TB
Rec 9-22-97

AEN I.D. 708375

September 18, 1997

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124

Project Name SGMP-3Q-97-EP
Project Number 082197-SEP

Attention: JOHN M. WAKEFIELD

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EPA methods 8240 and 150.1 were performed by American Environmental Network (NM) Inc., Albuquerque, NM.

All other parameters were performed by American Environmental Network (FL) Inc., Pensacola, FL.

Total dissolved residue is equivalent to total dissolved solids.

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

005546

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708375
PROJECT #	: 082197-SEP	DATE RECEIVED	: 8/21/97
PROJECT NAME	: SGMP-3Q-97-EP	REPORT DATE	: 9/18/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-67	AQ	8/21/97
02	MW-65	AQ	8/21/97
03	MW-51	AQ	8/21/97
04	MW-32	AQ	8/21/97
05	MW-16	AQ	8/21/97
06	TRIP BLANK	AQ	8/7/97

005547

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708375
PROJECT #	: 082197-SEP	DATE RECEIVED	: 8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	MW-67	AQUEOUS	8/21/97	8/22/97
02	MW-65	AQUEOUS	8/21/97	8/22/97
03	MW-51	AQUEOUS	8/21/97	8/22/97

PARAMETER	UNITS	01	02	03
PH (150.1)	**UNITS**	**8.7**	**7.8**	**7.7**

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708375
PROJECT #	: 082197-SEP	DATE RECEIVED	: 8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
04	MW-32	AQUEOUS	8/21/97	8/22/97

PARAMETER	UNITS	04
PH (150.1)	**UNITS**	**7.5**

CHEMIST NOTES:
N/A

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708375
PROJECT #	: 082197-SEP	SAMPLE MATRIX	: AQ
PROJECT NAME	: SGMP-3Q-97-EP		

PARAMETER	UNITS	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	708375-02	7.77	7.75	0

CHEMIST NOTES:
N/A

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

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

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-01	MW-67	AQUEOUS	8/21/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	**61**	**ug/L**
Carbon Disulfide	1.0	**1.7**	**ug/L**
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-01	MW-67	AQUEOUS	8/21/97	N/A	08/25/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		106 (76 - 114)
Toluene-d8		98 (88 - 110)
Bromofluorobenzene		99 (86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-02	MW-65	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**15**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-02	MW-65	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		84
		(76 - 114)
Toluene-d8		93
		(88 - 110)
Bromofluorobenzene		89
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-03	MW-51	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-03	MW-51	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		90
		(76 - 114)
Toluene-d8		94
		(88 - 110)
Bromofluorobenzene		112
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-04	MW-32	AQUEOUS	8/21/97	N/A	08/26/97	5

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 5.0	ug/L
Chloromethane	1.0	< 5.0	ug/L
Vinyl Chloride	1.0	< 5.0	ug/L
Bromomethane	1.0	< 5.0	ug/L
Chloroethane	1.0	< 5.0	ug/L
Trichlorofluoromethane	1.0	< 5.0	ug/L
Acetone	10	< 50	ug/L
1,1-Dichloroethene	1.0	**110**	**ug/L**
Iodomethane	1.0	< 5.0	ug/L
Methylene Chloride	1.0	< 5.0	ug/L
cis-1,2-Dichloroethene	1.0	< 5.0	ug/L
1,1-Dichloroethane	1.0	< 5.0	ug/L
trans-1,2-Dichloroethene	1.0	< 5.0	ug/L
2-Butanone	10	< 50	ug/L
Carbon Disulfide	1.0	< 5.0	ug/L
Chloroform	1.0	< 5.0	ug/L
1,2-Dichloroethane	1.0	< 5.0	ug/L
Vinyl Acetate	1.0	< 5.0	ug/L
1,1,1-Trichloroethane	1.0	**34**	**ug/L**
Carbon Tetrachloride	1.0	< 5.0	ug/L
Benzene	1.0	< 5.0	ug/L
1,2-Dichloropropane	1.0	< 5.0	ug/L
Trichloroethene	1.0	**550**	**ug/L**
Bromodichloromethane	1.0	< 5.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 50	ug/L
cis-1,3-Dichloropropene	1.0	< 5.0	ug/L
trans-1,3-Dichloropropene	1.0	< 5.0	ug/L
1,1,2-Trichloroethane	1.0	< 5.0	ug/L
Toluene	1.0	< 5.0	ug/L
1,2-Dibromoethane	1.0	< 5.0	ug/L
4-Methyl-2-Pentanone	10	< 50	ug/L
2-Hexanone	10	< 50	ug/L
Dibromochloromethane	1.0	< 5.0	ug/L
Tetrachloroethene	1.0	**8.2**	**ug/L**
Chlorobenzene	1.0	< 5.0	ug/L
Ethylbenzene	1.0	< 5.0	ug/L
m&p Xylenes	1.0	< 5.0	ug/L
o-Xylene	1.0	< 5.0	ug/L
Styrene	1.0	< 5.0	ug/L
Bromoform	1.0	< 5.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 5.0	ug/L
1,3-Dichlorobenzene	1.0	< 5.0	ug/L
1,4-Dichlorobenzene	1.0	< 5.0	ug/L
1,2-Dichlorobenzene	1.0	< 5.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-04	MW-32	AQUEOUS	8/21/97	N/A	08/26/97	5

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		109
		(76 - 114)
Toluene-d8		108
		(88 - 110)
Bromofluorobenzene		88
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-05	MW-16	AQUEOUS	8/21/97	N/A	08/26/97	100

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 100	ug/L
Chloromethane	1.0	< 100	ug/L
Vinyl Chloride	1.0	< 100	ug/L
Bromomethane	1.0	< 100	ug/L
Chloroethane	1.0	< 100	ug/L
Trichlorofluoromethane	1.0	< 100	ug/L
Acetone	10	< 1000	ug/L
1,1-Dichloroethene	1.0	< 100	ug/L
Iodomethane	1.0	< 100	ug/L
Methylene Chloride	1.0	< 100	ug/L
cis-1,2-Dichloroethene	1.0	< 100	ug/L
1,1-Dichloroethane	1.0	< 100	ug/L
trans-1,2-Dichloroethene	1.0	< 100	ug/L
2-Butanone	10	< 1000	ug/L
Carbon Disulfide	1.0	< 100	ug/L
Chloroform	1.0	< 100	ug/L
1,2-Dichloroethane	1.0	< 100	ug/L
Vinyl Acetate	1.0	< 100	ug/L
1,1,1-Trichloroethane	1.0	**520**	**ug/L**
Carbon Tetrachloride	1.0	< 100	ug/L
Benzene	1.0	< 100	ug/L
1,2-Dichloropropane	1.0	< 100	ug/L
Trichloroethene	1.0	**3000**	**ug/L**
Bromodichloromethane	1.0	< 100	ug/L
2-Chloroethyl Vinyl Ether	10	< 1000	ug/L
cis-1,3-Dichloropropene	1.0	< 100	ug/L
trans-1,3-Dichloropropene	1.0	< 100	ug/L
1,1,2-Trichloroethane	1.0	< 100	ug/L
Toluene	1.0	< 100	ug/L
1,2-Dibromoethane	1.0	< 100	ug/L
4-Methyl-2-Pentanone	10	< 1000	ug/L
2-Hexanone	10	< 1000	ug/L
Dibromochloromethane	1.0	< 100	ug/L
Tetrachloroethene	1.0	< 100	ug/L
Chlorobenzene	1.0	< 100	ug/L
Ethylbenzene	1.0	< 100	ug/L
m&p Xylenes	1.0	< 100	ug/L
o-Xylene	1.0	< 100	ug/L
Styrene	1.0	< 100	ug/L
Bromoform	1.0	< 100	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 100	ug/L
1,3-Dichlorobenzene	1.0	< 100	ug/L
1,4-Dichlorobenzene	1.0	< 100	ug/L
1,2-Dichlorobenzene	1.0	< 100	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-05	MW-16	AQUEOUS	8/21/97	N/A	08/26/97	100

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		105
		(76 - 114)
Toluene-d8		95
		(88 - 110)
Bromofluorobenzene		100
		(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST : VOLATILE ORGANICS EPA METHOD 8240
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D. : 708375
PROJECT # : 082197-SEP DATE RECEIVED : 8/21/97
PROJECT NAME : SGMP-3Q-97-EP

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-06	TRIP BLANK	AQUEOUS	8/7/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP	DATE RECEIVED :	8/21/97
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708375-06	TRIP BLANK	AQUEOUS	8/7/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		103
		(76 - 114)
Toluene-d8		95
		(88 - 110)
Bromofluorobenzene		100
		(86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP		
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082597	AQUEOUS	N/A	08/25/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	METALS

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ALKALINITY

Client Sample Id:	Parameter:	Unit:	Result:
708375-01	ALKALINITY, TOTAL (2320B)	MG/L	90
	PH (150.1)	UNITS	8.5
	BICARBONATE, CACO3 (2330B)	MG/L	87
	CARBONATE, CACO3 (2330B)	MG/L	3
	CARBON DIOXIDE, FREE AS CACO3	MG/L	1
708375-02	ALKALINITY, TOTAL (2320B)	MG/L	130
	PH (150.1)	UNITS	7.9
	BICARBONATE, CACO3 (2330B)	MG/L	130
	CARBONATE, CACO3 (2330B)	MG/L	11
	CARBON DIOXIDE, FREE AS CACO3	MG/L	3
708375-03	ALKALINITY, TOTAL (2320B)	MG/L	180
	PH (150.1)	UNITS	7.9
	BICARBONATE, CACO3 (2330B)	MG/L	180
	CARBONATE, CACO3 (2330B)	MG/L	1
	CARBON DIOXIDE, FREE AS CACO3	MG/L	4
708375-04	ALKALINITY, TOTAL (2320B)	MG/L	220
	PH (150.1)	UNITS	7.7
	BICARBONATE, CACO3 (2330B)	MG/L	220
	CARBONATE, CACO3 (2330B)	MG/L	1
	CARBON DIOXIDE, FREE AS CACO3	MG/L	9
708375-05	ALKALINITY, TOTAL (2320B)	MG/L	310
	PH (150.1)	UNITS	8.1
	BICARBONATE, CACO3 (2330B)	MG/L	310
	CARBONATE, CACO3 (2330B)	MG/L	4
	CARBON DIOXIDE, FREE AS CACO3	MG/L	5

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ALKALINITY

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1020	26-AUG-97
708375-02	002	WATER	21-AUG-97 0928	26-AUG-97
708375-03	003	WATER	21-AUG-97 1128	26-AUG-97
708375-04	004	WATER	21-AUG-97 1111	26-AUG-97
708375-05	005	WATER	21-AUG-97 1336	26-AUG-97

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ALKALINITY
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-04			Lab ID: 004		
ALKALINITY, TOTAL (2320B)	MG/L	220	1	ASW029	
PH (150.1)	UNITS	7.7	NA	PHW178	
BICARBONATE, CACO3 (2330B)	MG/L	220	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	1	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	9	1	NONE	
HYDROXIDE (2330B) AS CACO3	MG/L	ND	1	NONE	

Comments:

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-05			Lab ID: 005		
ALKALINITY, TOTAL (2320B)	MG/L	310	1	ASW029	
PH (150.1)	UNITS	8.1	NA	PHW177	R
BICARBONATE, CACO3 (2330B)	MG/L	310	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	4	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	5	1	NONE	
HYDROXIDE (2330B) AS CACO3	MG/L	ND	1	NONE	

Comments:
R = SAMPLE RECEIVED OUT OF HOLD TIME FOR PH ANALYSIS.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ALKALINITY
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID: 001		
ALKALINITY, TOTAL (2320B)	MG/L	90	1	ASW029	
PH (150.1)	UNITS	8.5	NA	PHW178	
BICARBONATE, CACO3 (2330B)	MG/L	87	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	3	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	1	1	NONE	
HYDROXIDE (233OB) AS CACO3	MG/L	ND	1	NONE	
Comments:					
Client ID: 708375-02			Lab ID: 002		
ALKALINITY, TOTAL (2320B)	MG/L	130	1	ASW029	
PH (150.1)	UNITS	7.9	NA	PHW178	
BICARBONATE, CACO3 (2330B)	MG/L	130	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	11	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	3	1	NONE	
HYDROXIDE (233OB) AS CACO3	MG/L	ND	1	NONE	
Comments:					
Client ID: 708375-03			Lab ID: 003		
ALKALINITY, TOTAL (2320B)	MG/L	180	1	ASW029	
PH (150.1)	UNITS	7.9	NA	PHW178	
BICARBONATE, CACO3 (2330B)	MG/L	180	1	NONE	
CARBONATE, CACO3 (2330B)	MG/L	1	1	NONE	
CARBON DIOXIDE, FREE AS CACO3	MG/L	4	1	NONE	
HYDROXIDE (233OB) AS CACO3	MG/L	ND	1	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ALKALINITY

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708375-01	CHLORIDE (325.3)	MG/L	10
	SULFATE (375.4)	MG/L	34
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	300
708375-02	CHLORIDE (325.3)	MG/L	18
	SULFATE (375.4)	MG/L	81
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	290
708375-03	CHLORIDE (325.3)	MG/L	17
	SULFATE (375.4)	MG/L	77
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	330
708375-04	CHLORIDE (325.3)	MG/L	33
	SULFATE (375.4)	MG/L	110
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	490
708375-05	CHLORIDE (325.3)	MG/L	28
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	970
	SULFATE (375.4)	MG/L	100
	TOTAL DISSOLVED SOLIDS (160.1)	MG/L	410
	TOTAL KJELDAHL NITROGEN (351.2)	MG/L	55

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1020	26-AUG-97
708375-02	002	WATER	21-AUG-97 0928	26-AUG-97
708375-03	003	WATER	21-AUG-97 1128	26-AUG-97
708375-04	004	WATER	21-AUG-97 1111	26-AUG-97
708375-05	005	WATER	21-AUG-97 1336	26-AUG-97

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID: 001		
CHLORIDE (325.3)	MG/L	10	1	CIW081	
SULFATE (375.4)	MG/L	34	10	SEW069	
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	300	5	TDW050	
Comments:					
Client ID: 708375-02			Lab ID: 002		
CHLORIDE (325.3)	MG/L	18	1	CIW081	
SULFATE (375.4)	MG/L	81	50	SEW069	+
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	290	5	TDW050	
Comments:					
Client ID: 708375-03			Lab ID: 003		
CHLORIDE (325.3)	MG/L	17	1	CIW081	
SULFATE (375.4)	MG/L	77	20	SEW069	+
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	330	5	TDW050	
Comments:					
Client ID: 708375-04			Lab ID: 004		
CHLORIDE (325.3)	MG/L	33	1	CIW081	
SULFATE (375.4)	MG/L	110	50	SEW069	+
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	490	5	TDW050	
Comments:					
Client ID: 708375-05			Lab ID: 005		
CHLORIDE (325.3)	MG/L	28	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	970	1	CDW018	
SULFATE (375.4)	MG/L	100	50	SEW069	+
TOTAL DISSOLVED SOLIDS (160.1)	MG/L	410	5	TDW050	
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	55	2.5	TAW41D	+
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	WET CHEM

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Rolton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTAN TECH.
Project Number:	708375
Project Location:	SGMP-3Q-97-EP
Accession Number:	708440
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

American Environmental Network (NM), Inc.

Albuquerque • Lubbock • Farmington • Roswell

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

005575

COMPANY:	SPARTON TECHNOLOGY, I
ADDRESS:	9621 Coors Rd., NW
	Albuquerque, NM 87114
PHONE:	(505) 892-5300
FAX:	(505) 892-5515
BILL TO:	John M. Wakefield
COMPANY:	SPARTON TECHNOLOGY, INC.
ADDRESS:	4901 Rockaway Blvd., NE
	Rio Rancho, NM 87124

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarb	(MOD.8015) Diesel/Die	TOX, TOC	(M8015) Gas/Purge &	Gasoline/BTEX & MT	BTXE/MTBE (8020)	BTEX & Chlorinated	BTEX/MTBE/EDC & E	Chlorinated Hydrocarb	Nitrate plus	504 EDB	Polynuclear Aromatic	Volatile Organics (E	Volatile Organics (E	TKN	Pesticides/PCB (6C	Herbicides (615/81	Base/Neutral/Acid Com	pH Elec Cond	General Chemistry	Hardness, Br	Carbonate, C	Priority Pollutant M	Target Analyte List	RCRA Metals (8)	RCRA Metals by T	Metals: Ba, Mn	Cr+6	NUMBER OF CONT
		10:00 AM																															
MW-67	8-21-97	0928	H2O	-01										X			X							X	X	X							
MW-65	"	0928	"	-02										X			X							X	X	X							
MW-51	"	1128	"	-03										X			X							X	X	X							
MW-32	"	1111	"	-04										X			X							X	X	X							
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X					X	X	
Trip Blank	8-7-97	12:05	"	-06													X																

PROJECT INFORMATION	PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJ. NO.: 082197-SEP	(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) X	Signature: Time: 4:30	Signature: Time:
PROJ. NAME: SGMP-3097-EP	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER	Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
P.O. NO.: 50650-02-06	METHANOL PRESERVATION ☐	Company: S.T.I. 892-5300	Company:
SHIPPED VIA: Delivered	COMMENTS: FIXED FEE ☐	RECEIVED BY: 1.	RECEIVED BY: (LAB) 2.
SAMPLE RECEIPT	C of C Seals on cooler	Signature: Time:	Signature: Time: 4:30
NO. CONTAINERS: 32		Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
CUSTODY SEALS: Yes		Company:	American Environmental Network (NM), Inc.
RECEIVED INTACT: Yes			
COOL RANGE: 4-16	From Field		

4/1/96 AEN Inc.: American Environmental Network (NM), Inc. • 2709 D Pan American Freeway, NE • Albuquerque, New Mexico 87107

DISTRIBUTION: White, Canary - AEN Pink - ORIGINATOR

AUG 2 2 2 2 PM AEN NEW MEXICO

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr Tc		TOX	TOC	Gen Chemistry			Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta	005576			NUMBER OF CONTAINERS
708375-05	8-21	1336	AQ	1					X																								

PROJECT INFORMATION
PROJECT NUMBER: 708375

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS
CUSTODY SEALS
COLD
708371

SAMPLES SENT TO:
SAN DIEGO
Paragon

RELINQUISHED BY: 1.
Signature: Time: 1700
Printed Name: Brian Pace Date: 8-21-97
Albuquerque NM

RECEIVED BY: 1.
Signature: Time:
Date:

RELINQUISHED BY: 2.
Signature Time
Printed Name Date
Company

RECEIVED BY: (LAB) 2.
Corrina L Dewey 8-21-97
Corrina L Dewey
Company

American Environmental Network, Inc.

DATE OF ANALYSIS REPORT

AEN ID: 708371

08-Sep-97

METHOD	SAMPLE #	DATE	ANALYST
CHROMIUM HEXAVALENT (SM 3500 CR D)	01	08/22/97	CARLENE MCCUTCHEON

Standard Methods for the Examination of Water and Wastewater, 1989, 17th Ed.

005577

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708375
PROJECT NAME : SPARTON TECH ATI I.D. : 708371

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM HEXAVALENT	MG/L	70836101	0.6	0.6	0	2.1	1.5	100

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

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

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 708371

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708375
PROJECT NAME : SPARTON TECH

DATE RECEIVED : 08/21/97
REPORT DATE : 09/08/97

PARAMETER	UNITS	01
CHROMIUM HEXAVALENT (SM 3500	MG/L	0.30

American Environmental Network, Inc.

CLIENT : AMERICAN ENV. NETWORK OF NM, INC. DATE RECEIVED : 08/21/97
PROJECT # : 708375
PROJECT NAME : SPARTON TECH REPORT DATE : 09/08/97
ATI I.D. : 708371

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	708375-05	AQUEOUS	08/21/97

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	1

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 our sample control department before the scheduled disposal date.

American Environmental Network, Inc.

AEN I.D. 708371

September 8, 1997

American Environmental Network-NM
2709-D Pan American Frwy, NE
Albuquerque, NM 87107

Project Name/Number: Sparton Tech/708375

Attention: Kimberly D. McNeill

On 08/21/97, American Environmental Network (Arizona), Inc., received a request to analyze aqueous sample(s). The sample(s) 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 (602) 496-4400.

Linda Eshelman
Project Manager
LE/acc
Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\8260822.M (RTE Integrator)
Title : AEN New Mexico GC/MS
Last Update : Wed Aug 27 08:03:24 1997
Response via : Initial Calibration

Non-Spiked Sample: 082697B1.D

	Spike Sample	Spike Duplicate Sample
File ID :	082697S3.D	082697S4.D
Sample :	BS	BS
Acq Time:	26 Aug 97 6:56 pm	26 Aug 97 7:29 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	49	49	98	97	1	14	61-145
Benzene	0.1	50	51	51	101	103	2	11	76-127
Trichloroethene	0.0	50	54	54	108	107	1	14	71-120
Toluene	0.2	50	51	51	102	101	2	13	76-125
Chlorobenzene	0.1	50	51	51	103	103	0	13	75-130

- Fails Limit Check

8260822.M Wed Aug 27 08:11:30 1997

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP		
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		92
		(76 - 114)
Toluene-d8		98
		(88 - 110)
Bromofluorobenzene		90
		(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP		
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708375
PROJECT #	: 082197-SEP		
PROJECT NAME	: SGMP-3Q-97-EP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082597	AQUEOUS	N/A	08/25/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		105
		(76 - 114)
Toluene-d8		88
		(88 - 110)
Bromofluorobenzene		111
		(86 - 115)

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Metals
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID:001		
CALCIUM (200.7)	MG/L	19	1	I0W215	
POTASSIUM (200.7)	MG/L	26	2	X0W215	
MAGNESIUM (200.7)	MG/L	5.3	0.2	J0W215	
SODIUM (200.7)	MG/L	37	0.2	10W215	
Comments:					
Client ID: 708375-02			Lab ID:002		
CALCIUM (200.7)	MG/L	55	1	I0W215	
POTASSIUM (200.7)	MG/L	6	2	X0W215	
MAGNESIUM (200.7)	MG/L	9.6	0.2	J0W215	
SODIUM (200.7)	MG/L	26	0.2	10W215	
Comments:					
Client ID: 708375-03			Lab ID:003		
CALCIUM (200.7)	MG/L	71	1	I0W215	
POTASSIUM (200.7)	MG/L	4	2	X0W215	
MAGNESIUM (200.7)	MG/L	9	0.2	J0W215	
SODIUM (200.7)	MG/L	41	0.2	10W215	
Comments:					
Client ID: 708375-04			Lab ID:004		
CALCIUM (200.7)	MG/L	87	1	I0W215	
POTASSIUM (200.7)	MG/L	4	2	X0W215	
MAGNESIUM (200.7)	MG/L	13	0.2	J0W215	
SODIUM (200.7)	MG/L	46	0.2	10W215	
Comments:					
Client ID: 708375-05			Lab ID:005		
BORON (200.7)	MG/L	0.28	0.09	O0W215	
CALCIUM (200.7)	MG/L	18	1	I0W215	
CHROMIUM (200.7)	MG/L	0.26	0.01	H0W215	
POTASSIUM (200.7)	MG/L	16	2	X0W215	
MAGNESIUM (200.7)	MG/L	1.9	0.2	J0W215	
MANGANESE (200.7)	MG/L	0.13	0.01	G0W215	
SODIUM (200.7)	MG/L	52	0.2	10W215	
NICKEL (200.7)	MG/L	ND	0.02	E0W215	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Metals

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1020	26-AUG-97
708375-02	002	WATER	21-AUG-97 0928	26-AUG-97
708375-03	003	WATER	21-AUG-97 1128	26-AUG-97
708375-04	004	WATER	21-AUG-97 1111	26-AUG-97
708375-05	005	WATER	21-AUG-97 1336	26-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
708375-01	CALCIUM (200.7)	MG/L	19
	POTASSIUM (200.7)	MG/L	26
	MAGNESIUM (200.7)	MG/L	5.3
	SODIUM (200.7)	MG/L	37
708375-02	CALCIUM (200.7)	MG/L	55
	POTASSIUM (200.7)	MG/L	6
	MAGNESIUM (200.7)	MG/L	9.6
	SODIUM (200.7)	MG/L	26
708375-03	CALCIUM (200.7)	MG/L	71
	POTASSIUM (200.7)	MG/L	4
	MAGNESIUM (200.7)	MG/L	9
	SODIUM (200.7)	MG/L	41
708375-04	CALCIUM (200.7)	MG/L	87
	POTASSIUM (200.7)	MG/L	4
	MAGNESIUM (200.7)	MG/L	13
	SODIUM (200.7)	MG/L	46
708375-05	BORON (200.7)	MG/L	0.28
	CALCIUM (200.7)	MG/L	18
	CHROMIUM (200.7)	MG/L	0.26
	POTASSIUM (200.7)	MG/L	16
	MAGNESIUM (200.7)	MG/L	1.9
	MANGANESE (200.7)	MG/L	0.13
	SODIUM (200.7)	MG/L	52

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: HARDNESS

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: HARDNESS
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID:001		
CALCIUM, HARDNESS (200.7)	MG/L	48	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	22	0.8	J0W215	
TOTAL HARDNESS	MG/L	70	NA	NONE	
Comments:					
Client ID: 708375-02			Lab ID:002		
CALCIUM, HARDNESS (200.7)	MG/L	140	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	39	0.8	J0W215	
TOTAL HARDNESS	MG/L	180	NA	NONE	
Comments:					
Client ID: 708375-03			Lab ID:003		
CALCIUM, HARDNESS (200.7)	MG/L	180	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	37	0.8	J0W215	
TOTAL HARDNESS	MG/L	220	NA	NONE	
Comments:					
Client ID: 708375-04			Lab ID:004		
CALCIUM, HARDNESS (200.7)	MG/L	220	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	53	0.8	J0W215	
TOTAL HARDNESS	MG/L	270	NA	NONE	
Comments:					
Client ID: 708375-05			Lab ID:005		
CALCIUM, HARDNESS (200.7)	MG/L	45	2	I0W215	
MAGNESIUM, HARDNESS (200.7)	MG/L	8.0	0.8	J0W215	
TOTAL HARDNESS	MG/L	53	NA	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: HARDNESS

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1020	26-AUG-97
708375-02	002	WATER	21-AUG-97 0928	26-AUG-97
708375-03	003	WATER	21-AUG-97 1128	26-AUG-97
708375-04	004	WATER	21-AUG-97 1111	26-AUG-97
708375-05	005	WATER	21-AUG-97 1336	26-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: HARDNESS

Client Sample Id:	Parameter:	Unit:	Result:
708375-01	CALCIUM, HARDNESS (200.7)	MG/L	48
	MAGNESIUM, HARDNESS (200.7)	MG/L	22
	TOTAL HARDNESS	MG/L	70
708375-02	CALCIUM, HARDNESS (200.7)	MG/L	140
	MAGNESIUM, HARDNESS (200.7)	MG/L	39
	TOTAL HARDNESS	MG/L	180
708375-03	CALCIUM, HARDNESS (200.7)	MG/L	180
	MAGNESIUM, HARDNESS (200.7)	MG/L	37
	TOTAL HARDNESS	MG/L	220
708375-04	CALCIUM, HARDNESS (200.7)	MG/L	220
	MAGNESIUM, HARDNESS (200.7)	MG/L	53
	TOTAL HARDNESS	MG/L	270
708375-05	CALCIUM, HARDNESS (200.7)	MG/L	45
	MAGNESIUM, HARDNESS (200.7)	MG/L	8.0
	TOTAL HARDNESS	MG/L	53

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 005 Sample Date/Time: 21-AUG-97 1336
Client Sample Id: 708375-05 Received Date: 26-AUG-97

Batch: TOW080 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
708375-05	TOTAL ORGANIC CARBON	MG/L	2

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 005
Client Sample Id: 708375-05
Sample Date/Time: 21-AUG-97 1336
Received Date: 26-AUG-97

Batch: TXW042
Blank: E
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	24	10	
ANALYST	INITIALS	KS		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708440
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTAN TECH.
Project Location: SGMP-3Q-97-EP
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
708375-05	TOTAL ORGANIC HALIDES	MG/L	24

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	CHLORIDE	SULFATE	TDS	CONDUCT'Y	TKN AUTO
Batch Id:	CIW081	SEW069	TDW050	CDW018	TAW41D
Blank Result:	<1	<10	<5	<1	<0.5
Anal. Method:	325.3	375.4	160.1	120.1	351.2
Prep. Method:	N/A	N/A	N/A	N/A	N/A
Analysis Date:	26-AUG-97	27-AUG-97	26-AUG-97	29-AUG-97	29-AUG-97
Prep. Date:	26-AUG-97	27-AUG-97	25-AUG-97	29-AUG-97	25-AUG-97
Sample Duplication					
Sample Dup:	708383-1	708383-1	708299-10	708383-3	708383-1
Rept Limit:	<1	<50+	<5	<1	<0.5
Sample Result:	18.7	116.5	48	4.4	<0.5
Dup Result:	18.9	115.5	42	4.4	<0.5
Sample RPD:	1	1G	13	0G	N/C
Max RPD:	6	50	15	1	0.5
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	708383-1	708383-1	N/A	N/A	708383-1
Rept Limit:	<1	<100+	N/A	N/A	<0.5
Sample Result:	18.7	116.5			<0.5
Spiked Result:	76.5	296.0			4.41
Spike Added:	55.0	200.0			4.00
% Recovery:	105	90			110
% Rec Limits:	88-113	64-150			64-122
Dry Weight%	N/A	N/A			N/A
ICV					
ICV Result:	93.5	21.3		1433	10.37
True Result:	100	20.0		1412	10.00
% Recovery:	94	107		101	104
% Rec Limits:	90-110	90-110		90-110	90-110
LCS					
LCS Result:			304		8.86
True Result:			293		10.00
% Recovery:			104		89
% Rec Limits:			77-122		67-114

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:	Comments:
CIW081	708438-1; 708457-2,5,6,10 WERE ADDED TO BATCH ON 27-AUG-97
SEW069	708440-1,2,3,4,5; 708437-1,2,3 WERE ADDED TO BATCH ON 28-AUG-97
TDW050	708436-1; 708440-1,2,3,4,5; 708442-1; WERE ADDED TO BATCH ON 27-AUG-97
TAW41D	708427-1; 708437-1,2,3; WERE ADDED TO BATCH ON 26-AUG-97
TAW41D	708448-1,2,3,; 708440-5 WERE ADDED TO BATCH ON 27-AUG-97

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ALKALINITY

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	ALKALINITY	PH	PH
Batch Id:	ASW029	PHW178	PHW177
Blank Result:	<1	N/A	N/A
Anal. Method:	2320B	150.1	150.1
Prep. Method:	N/A	N/A	N/A
Analysis Date:	27-AUG-97	27-AUG-97	26-AUG-97
Prep. Date:	27-AUG-97	27-AUG-97	26-AUG-97

Sample Duplication

Sample Dup:	708440-2	708457-2	708442-1
Rept Limit:	<1	N/A	N/A
Sample Result:	130	6.26	8.15
Dup Result:	129	6.32	8.19
Sample RPD:	1	0.06	0.04
Max RPD:	4	0.12	0.12
Dry Weight%	N/A	N/A	N/A

Matrix Spike

Sample Spiked:	708440-2	N/A	N/A
Rept Limit:	<1	N/A	N/A
Sample Result:	130		
Spiked Result:	151		
Spike Added:	25		
% Recovery:	84		
% Rec Limits:	75-125		
Dry Weight%	N/A		

ICV

ICV Result:	233	10.10	10.07
True Result:	250	10.00	10.00
% Recovery:	93	101	101
% Rec Limits:	90-110	90-110	90-110

LCS

LCS Result:		6.63	7.02
True Result:		6.87	6.87
% Recovery:		97	102
% Rec Limits:		96-104	96-104

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:		Comments:
ASW029	708457-2,5,6,10	WERE ADDED TO BATCH ON 28-AUG-97

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
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N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
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NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
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(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
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AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

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RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
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RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	CALCIUM	POTASSIUM	MAGNESIUM	SODIUM	BORON	CHROMIUM
Batch Id:	I0W215	X0W215	J0W215	10W215	O0W215	H0W215
Blank Result:	<1	<2	<0.2	<0.2	<0.09	<0.01
Anal. Method:	200.7	200.7	200.7	200.7	200.7	200.7
Prep. Method:	200.7	200.7	200.7	200.7	200.7	200.7
Analysis Date:	08-SEP-97	08-SEP-97	08-SEP-97	09-SEP-97	08-SEP-97	04-SEP-97
Prep. Date:	29-AUG-97	29-AUG-97	29-AUG-97	29-AUG-97	29-AUG-97	29-AUG-97
Sample Duplication						
Sample Dup:	708437-1	708437-1	708437-1	708437-1	708437-1	708437-1
Rept Limit:	<1	<2	<0.2	<0.2	<0.09	<0.01
Sample Result:	96	26	30	76	2.9	2.7
Dup Result:	97	27	30	76	2.9	2.7
Sample RPD:	1	4	0	0	0	0
Max RPD:	20	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spike						
Sample Spiked:	708437-1	708437-1	708437-1	708437-1	708437-1	708437-1
Rept Limit:	<1	<2	<0.2	<0.2	<0.09	<0.01
Sample Result:	76	4	10	56	0.91	0.68
Spiked Result:	96	26	30	76	2.9	2.7
Spike Added:	20	20	20	20	2.0	2.0
% Recovery:	100	110	100	100	100	101
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	24	24	24	25	5.0	5.0
True Result:	25	25	25	25	5.0	5.0
% Recovery:	96	96	96	100	100	100
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	90-110
LCS						
LCS Result:	20	22	20	20	2.0	20
True Result:	20	20	20	20	2.0	20
% Recovery:	100	110	100	100	100	100
% Rec Limits:	80-120	80-120	80-120	80-120	80-120	80-120

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	MANGANESE	NICKEL
Batch Id:	G0W215	E0W215
Blank Result:	<0.01	<0.02
Anal. Method:	200.7	200.7
Prep. Method:	200.7	200.7
Analysis Date:	08-SEP-97	08-SEP-97
Prep. Date:	29-AUG-97	28-AUG-97
Sample Duplication		
Sample Dup:	708437-1	708437-1
Rept Limit:	<0.01	<0.02
Sample Result:	2.0	2.0
Dup Result:	2.0	2.0
Sample RPD:	0	0
Max RPD:	20	20
Dry Weight%	N/A	N/A
Matrix Spike		
Sample Spiked:	708437-1	708437-1
Rept Limit:	<0.01	<0.02
Sample Result:	<0.01	<0.02
Spiked Result:	2.0	2.0
Spike Added:	2.0	2.0
% Recovery:	100	100
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A
ICV		
ICV Result:	4.9	4.8
True Result:	5.0	5.0
% Recovery:	98	96
% Rec Limits:	90-110	90-110
LCS		
LCS Result:	2.1	2.1
True Result:	2.0	2.0
% Recovery:	105	105
% Rec Limits:	80-120	80-120

"Quality Control Comments"

Batch Id:	Comments:
I0W215	ANALYST: JLH
I0W215	The results reported under "Sample Duplication" are the MS/MSD.
X0W215	ANALYST: JLH
X0W215	The results reported under "Sample Duplication" are the MS/MSD.
J0W215	ANALYST: JLH
J0W215	The results reported under "Sample Duplication" are the MS/MSD.
10W215	ANALYST: JLH
10W215	The results reported under "Sample Duplication" are the MS/MSD.
O0W215	ANALYST: JR
O0W215	The results reported under "Sample Duplication" are the MS/MSD.
H0W215	ANALYST: JLH
H0W215	The results reported under "Sample Duplication" are the MS/MSD.
G0W215	ANALYST: JLH
G0W215	The results reported under "Sample Duplication" are the MS/MSD.
E0W215	ANALYST: JLH
E0W215	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM ANALYSIS REPORT:
REPT LMTS = REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
REPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS. (NOT ADJUSTED FOR DRY WEIGHT).

SW-846, 3rd Edition, latest revision.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 4th Edition.
Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992.
Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JR = JOHN REED
LV = LASSANDRA VON APPEN

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: HARDNESS

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	CALCIUM	MAGNESIUM
Batch Id:	I0W215	J0W215
Blank Result:	<1	<0.2
Anal. Method:	200.7	200.7
Prep. Method:	200.7	200.7
Analysis Date:	08-SEP-97	08-SEP-97
Prep. Date:	29-AUG-97	29-AUG-97

Sample Duplication

Sample Dup:	708437-1	708437-1
Rept Limit:	<1	<0.2
Sample Result:	96	30
Dup Result:	97	30
Sample RPD:	1	0
Max RPD:	20	20
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	708437-1	708437-1
Rept Limit:	<1	<0.2
Sample Result:	76	10
Spiked Result:	96	30
Spike Added:	20	20
% Recovery:	100	100
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A

ICV

ICV Result:	24	24
True Result:	25	25
% Recovery:	96	96
% Rec Limits:	90-110	90-110

LCS

LCS Result:	20	20
True Result:	20	20
% Recovery:	100	100
% Rec Limits:	80-120	80-120

"Quality Control Comments"

Batch Id:	Comments:
I0W215	ANALYST: JLH
I0W215	The results reported under "Sample Duplication" are the MS/MSD.
J0W215	ANALYST: JLH
J0W215	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM ANALYSIS REPORT:
REPT LMTS = REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
REPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS. (NOT ADJUSTED FOR DRY WEIGHT).

SW-846, 3rd Edition, latest revision.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 4th Edition.
Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992.
Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

GJ = GARY JACOBS
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LV = LASSANDRA VON APPEN

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 03-SEP-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	KL	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Reagent
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

RS Date Analyzed: 03-SEP-97 RS Date Extracted: N/A
RSD Date Analyzed: 03-SEP-97 RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	6.2	93	6.5	97	4	30	71-127

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708437-2

MS Date Analyzed: 03-SEP-97
MSD Date Analyzed: 03-SEP-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	7.2	107	7.2	107	0	30	51-135

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

J/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG = MICROGRAMS
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/M3 = MILLIGRAM PER CUBIC METER.
PPMV = PART PER MILLION BY VOLUME.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
< = LESS THAN.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708440
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTAN TECH.
Project Location:	SGMP-3Q-97-EP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 05-Sep-97

"QC Report"

Title: Water Blank
Batch: TXW042
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: E Date Analyzed: 05-SEP-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	KL	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TXW042
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708464-1

MS Date Analyzed: 05-SEP-97
MSD Date Analyzed: 05-SEP-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.050	43.231	43.252	42*	43.251	40*	5	20	75-125

Surrogates:

Comments:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE HAD RECOVERY(S) AND/OR RPD(S) OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.

Notes:
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Common Notation for Organic Reporting

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N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMV = PART PER MILLION BY VOLUME
MG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

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AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

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SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

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LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708440 Date Received: 26-Aug-97

1. Was there a Chain of Custody? Yes No*
2. Was Chain of Custody properly filled out and relinquished? Yes No*
3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) Yes No* N/A
4. Were all samples properly labeled and identified? Yes No*
5. Did samples require splitting? Yes* No
   Req By: PM Client Other*
6. Were samples received in proper containers for analysis requested? Yes No*
7. Were all sample containers received intact? Yes No*
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+ Yes No* N/A
9. Is there sufficient volume for analysis requested? Yes No*
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) Yes No*
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No N/A
12. If sent, were matrix spike bottles returned? Yes No* N/A
13. Was Project Manager notified of problems? (initials:_____) Yes No* N/A

Airbill Number(s): 2914179046

Shipped By: Fedx

Cooler Number(s): N/A

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): 3°C
CCK6
(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

PH for 708375-05 Received out of hold time - Per Mitch Rubenstein still run PH. 8/26 @ 1350

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: L. Kitt Date: 26-Aug-97 Logged By: L. Kitt Date: 26-Aug-97

* *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

◆ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-22 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

708440

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	metals: B, Mn, Ni, Cr+3	Ca, Mg, K, Na	TOX	TOC	Gen Chemistry: Cl, SO4, Hardness	NH3	Elect Cond.	Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)	AIK CRP (Bicarb, Carb) TDR	TC-14	Gross Alpha/Beta	005626	NUMBER OF CONTAINERS
708375 -01	8-21	~~1000~~ 1020	AQ							X			X													X				
-02		0928								X			X													X				
-03		1128								X			X													X				
-04		1111								X			X													X				
-05		1336							X	X	X	X	X	X	X											X				

PROJECT INFORMATION	
PROJECT NUMBER:	708375
PROJECT NAME:	Sloanton tech.
QC LEVEL:	(STD) IV
QC REQUIRED	MS MSD BLANK
TAT	(STANDARD) RUSH

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND./COLD	
LAB NUMBER	

DUE DATE: 9-3-97
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

SAMPLES SENT TO:	
SAN DIEGO	
Paragon	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [signature] Time: 1700	Signature: Time
Printed Name: Brian Price Date: 8-25	Printed Name: Date
Albuquerque NM	Company
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: [signature] Time: 0840	Signature: Time:
Printed Name: Linda Kitt Date: 8/26/97	Printed Name: Date:
Company: AEN/71	Company:

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

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708375 708440

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515
BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX, TOC (2)	(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)	Nitrate plus Nitrite (2)	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS (3)	Volatile Organics (8260) GC/MS	TKN (1)	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	pH, Elec. Cond. (2)	General Chemistry: Ca, Mg, K, Na (4) Hardness, Bicarbonate (TDR) Carbonate, Cl, SO4	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Se, Cr+3 (1) Cr+6 (1)	NUMBER OF CONTAINERS
MW-67	8-21-97	0928	H2O	-01										X			X							X	X	X					6
MW-65	"	0928	"	-02										X			X							X	X	X					6
MW-51	"	1128	"	-03										X			X							X	X	X					6
MW-32	"	1111	"	-04										X			X							X	X	X					6
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X			X	X	3
Trip Blank	8-7-97	1205	"	-06													X														1

1000 ml

005627

Final 8-28

PROJECT INFORMATION
PROJ. NO.: 082197-SEP
PROJ. NAME: SGMP-3Q97-EP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT
NO. CONTAINERS: 42
CUSTODY SEALS: Y/N/NA
RECEIVED INTACT: Y/N
BLUE ICE/ICE: 16

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒
CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER
METHANOL PRESERVATION ☐
COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 4:30	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 4:30
Printed Name: Date:	Printed Name: Brian Date: 8-21-97
Company:	American Environmental Network (NM), Inc.

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	708375
Project Location:	SGMP-3Q-97-AP
Accession Number:	708390
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708390
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTON
Project Location:	SGMP-3Q-97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708390
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTON
Project Location: SGMP-3Q-97-AP
Test: NITRATE, NITROGEN (353.2-354.1)
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708375-01			Lab ID: 001		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					
Client ID: 708375-02			Lab ID: 002		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.6	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	0.6	0.1	NONE	
Comments:					
Client ID: 708375-03			Lab ID: 003		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.8	0.2	N3W50B	@
NITRATE, NITROGEN (353.2-354.1)	MG/L	3.8	0.1	NONE	
Comments:					
Client ID: 708375-04			Lab ID: 004		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					
Client ID: 708375-05			Lab ID: 005		
NITRITE, NITROGEN (354.1)	MG/L	0.1	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	ND	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	ND	0.1	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708390
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTON
Project Location: SGMP-3Q-97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708375-01	001	WATER	21-AUG-97 1000	22-AUG-97
708375-02	002	WATER	21-AUG-97 0928	22-AUG-97
708375-03	003	WATER	21-AUG-97 1129	22-AUG-97
708375-04	004	WATER	21-AUG-97 1111	22-AUG-97
708375-05	005	WATER	21-AUG-97 1326	22-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708390
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708375
Project Name: SPARTON
Project Location: SGMP-3Q-97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client Sample Id:	Parameter:	Unit:	Result:
708375-02	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	0.6
	NITRATE, NITROGEN (353.2-354.1)	MG/L	0.6
708375-03	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	3.8
	NITRATE, NITROGEN (353.2-354.1)	MG/L	3.8
708375-05	NITRITE, NITROGEN (354.1)	MG/L	0.1

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708390
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708375
Project Name:	SPARTON
Project Location:	SGMP-3Q-97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	NO2	NO2NO3
Batch Id:	N2W097	N3W50B
Blank Result:	<0.1	<0.1
Anal. Method:	354.1	353.2
Prep. Method:	N/A	N/A
Analysis Date:	22-AUG-97	27-AUG-97
Prep. Date:	22-AUG-97	27-AUG-97

Sample Duplication

Sample Dup:	708387-1	708358-10
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.11
Dup Result:	<0.1	0.11
Sample RPD:	N/C	0G
Max RPD:	0.1	0.1
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	708387-1	708358-10
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.11
Spiked Result:	0.20	0.81
Spike Added:	0.20	1.00
% Recovery:	100	70
% Rec Limits:	85-117	70-127
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.20	1.97
True Result:	0.20	2.00
% Recovery:	100	99
% Rec Limits:	90-110	90-110

LCS

LCS Result:		
True Result:		
% Recovery:		
% Rec Limits:		

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708390 Date Received: 22-aug-97

1. Was there a Chain of Custody? (Yes) No*
2. Was Chain of Custody properly filled out and relinquished? (Yes) No*
3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) (Yes) No* N/A
4. Were all samples properly labeled and identified? (Yes) No*
5. Did samples require splitting? Req By: PM Client Other* Yes* (No)
6. Were samples received in proper containers for analysis requested? (Yes) No*
7. Were all sample containers received intact? Yes No*
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+ (Yes) No* N/A
9. Is there sufficient volume for analysis requested? (Yes) No*
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) Yes No*
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No (N/A)
12. If sent, were matrix spike bottles returned? Yes No* (N/A)
13. Was Project Manager notified of problems? (initials:_____) Yes No* (N/A)

Airbill Number(s): 2949975691/2949975813 Shipped By: FEDEX

Cooler Number(s): N/S Client Coolers Shipping Charges: N/A

Cooler Weight(s): N/A Cooler Temp(s) (°C): 3°C-CCK3, 3°C-CCK6

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PFE Date: 8/22/97 Logged By: PFE Date: 8/22/97

* *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

\+ *Note who requested the splitting of samples on the Comment Section of this form.*

All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

005636

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21-97 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

708390

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	NO3	NO2	TOX	TOC	Gen Chemistry	pH		Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (815/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta		005637		NUMBER OF CONTAINERS
708375-01	~~8-20~~ 8-21	10:00	AQ	1					X	X																							
-02	DP	0928		2					X	X																							
-03		1129		3					X	X																							
-04		1111		4					X	X																							
-05		1326		5					X	X				X																			

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT NUMBER:	708375-01	TOTAL NUMBER OF CONTAINERS		SAN DIEGO	
PROJECT NAME:	Sparton	CHAIN OF CUSTODY SEALS		Paragon	
QC LEVEL: STD. IV		INTACT?		RENTON	
QC REQUIRED: MS MSD BLANK		RECEIVED GOOD COND./COLD		PENSACOLA	X
TAT: STANDARD RUSH!		LAB NUMBER		PORTLAND	
				PHOENIX	

DUE DATE: 9-3-97
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1700	Signature: Time: 8/22/9
Printed Name: Brian Price Date: 8-20-97	Printed Name: Date:
Albuquerque NM	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 0823
Printed Name: Date:	Printed Name: R. ELSPERMAN Date: 8/22/97
Company:	Company: AENEL

American Environmental Network (NM), Inc.

Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708375

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114

PHONE: (505) 892-5300
FAX: (505) 892-5515 708390

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX, TOC (1)	(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)	Nitrate plus Nitrite (2)	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS (3)	Volatile Organics (8260) GC/MS	TKN (4)	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	pH, Elec. Cond. (5)	General Chemistry: Ca, Mg, K, Na, Hardness, Bicarbonate, Cl, SO4 (STOP)	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Se, Cr+3 (1) Cr+6 (1)	NUMBER OF CONTAINERS
MW-67	8-21-97	0928	H2O	-01										X			X							X	X	X					
MW-65	"	0928	"	-02										X			X							X	X	X					
MW-51	"	1128	"	-03										X			X							X	X	X					
MW-32	"	1111	"	-04										X			X							X	X	X					
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X		005638		X	X	
Trip Blank	8-7-97	1205	"	-06													X														

PROJECT INFORMATION

PROJ. NO.: 082197-SEP
PROJ. NAME: SGMP-3097-EP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT

NO. CONTAINERS: 14
CUSTODY SEALS: Intact
RECEIVED INTACT: Yes
COOL/ICE/AMB: Yes

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 4:30	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 4:30
Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
Company:	American Environmental Network (NM), Inc.

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

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708375

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114

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

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX, TOC (2)	(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)	Nitrate plus Nitrite (2)	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS (3)	Volatile Organics (8260) GC/MS	TKN (1)	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	pH, Elec Cond (2)	General Chemistry: Ca, Mg, K, Na (2)	Hardness, Bicarbonate, Cl, SO4 (TDS)	Carbonate	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Se, Cr+3 (1) Cr+6 total (1)	NUMBER OF CONTAINERS
MW-67	8-21-97	~~0928~~ 1000	H2O	-01										X			X							X	X	X						3
MW-65	"	0928	"	-02										X			X							X	X	X			005639			3
MW-51	"	1128	"	-03										X			X							X	X	X						3
MW-32	"	1111	"	-04										X			X							X	X	X						3
MW-16	"	1336	"	-05			X							X			X		X				X	X	X	X				X	X	3
Trip Blank	8-7-97	1205	"	-06													X															1

TMW 8-21-97

PROJECT INFORMATION

PROJ. NO.: 082197-SEP
PROJ. NAME: SGMP-3097-EP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT

NO. CONTAINERS	42
CUSTODY SEALS	Y/N/NA
RECEIVED INTACT	yes
BLUE ICE/ICE	16

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.
Signature: Time: 4:30
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Time: 4:30
Printed Name: Brian Price Date: 8-21-97
American Enviromental Network (NM), Inc.

American Environmental Network, Inc.

Received 10-29-97

AEN I.D. 708376

October 28, 1997

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124

Project Name AGMP-3Q97-AP
Project Number 082197-A2

Attention: JOHN M. WAKEFIELD

On 8/21/97 American Environmental Network (NM), 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.

This report is being revised in part to correct two laboratory reporting errors. The first reporting error was corrected on September 29, 1997 regarding detection limits for the metals analyses. A second correction is being issued to correct TOX reports that were issued below the reporting limits. The values have been corrected.

EPA method 8240 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

Hexavalent Chromium analyses were performed by American Environmental Network (AZ) Inc., Phoenix, AZ.

All other analyses were performed by American Environmental Network (FL) Inc., Pensacola, FL.

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

005640

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

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708376
PROJECT #	: 082197-A2	DATE RECEIVED	: 8/21/97
PROJECT NAME	: AGMP-3Q97-AP	REPORT DATE	: 10/28/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-14	AQ	8/21/97
02	MW-21	AQ	8/21/97
03	MW-22	AQ	8/21/97

005641

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: M Patrick
AEN Project Manager

Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
ALBUQUERQUE, NEW MEXICO

Project Name: SPARTAN TECHNOLOGY
Project Number: 708376
Project Location: AGMP-3Q97-AP
Accession Number: 708437

Project Manager: KIMBERLY D. MCNEILL
Sampled By: N/S

THIS IS A REVISED REPORT: October 14, 1997

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 001
Client Sample Id: 708376-01
Sample Date/Time: 21-AUG-97 1500
Received Date: 26-AUG-97

Batch: TXW043
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	10	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 002 Sample Date/Time: 21-AUG-97 1218
Client Sample Id: 708376-02 Received Date: 26-AUG-97

Batch: TXW043 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	26	10	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 003 Sample Date/Time: 21-AUG-97 1358
Client Sample Id: 708376-03 Received Date: 26-AUG-97

Batch: TXW043 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	60	10	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
708376-02	TOTAL ORGANIC HALIDES	MG/L	26
708376-03	TOTAL ORGANIC HALIDES	MG/L	60

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 14-Oct-97

"QC Report"

Title: Water Blank
Batch: TXW043
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 05-SEP-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	KL	

Comments:

"QC Report"

Title: Water Matrix
Batch: TXW043
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708437-1

MS Date Analyzed: 05-SEP-97
MSD Date Analyzed: 05-SEP-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.050	7.84	7.92	160*	7.90	120	29*	20	75-125

Surrogates:

Comments:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE HAD RECOVERY(S) AND/OR RPD(S) OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common Notation for Organic Reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

American Environmental Network, Inc.

~~Arsenic~~ As, ~~Cr~~ Effluent
~~Dissolved~~. ~~Sampled~~ JMW
10-3-97

AEN I.D. 708376

Revised

AGMP - 3Q 97 Rec. 10-3-97
MW-14, 21, 22 Sampled 8-21-97
Annual Parameters.

September 29, 1997

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124

Project Name AGMP-3Q97-AP
Project Number 082197-A2

Attention: JOHN M. WAKEFIELD

On 8/21/97 American Environmental Network (NM), 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.

This report is being revised in part to correct a laboratory error.

EPA method 8240 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

Hexavalent Chromium analyses were performed by American Environmental Network (AZ) Inc., Phoenix, AZ.

All other analyses were performed by American Environmental Network (FL) Inc., Pensacola, FL.

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

005652

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

American Environmental Network, Inc.

AGMP 3Q97 8-21-97
Annual Parameters for -
MW-14, 21, 22 Rec. 9-17-97

AEN I.D. 708376

September 12, 1997

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124

Project Name AGMP-3Q97-AP
Project Number 082197-A2

Attention: JOHN M. WAKEFIELD

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EPA method 8240 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

Hexavalent Chromium analyses were performed by American Environmental Network (AZ) Inc., Phoenix, AZ.

All other analyses were performed by American Environmental Network (FL) Inc., Pensacola, FL.

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

005653

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 708376
PROJECT #	: 082197-A2	DATE RECEIVED	: 8/21/97
PROJECT NAME	: AGMP-3Q97-AP	REPORT DATE	: 9/12/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-14	AQ	8/21/97
02	MW-21	AQ	8/21/97
03	MW-22	AQ	8/21/97

005654

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-01	MW-14	AQUEOUS	8/21/97	N/A	08/26/97	5

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 5.0	ug/L
Chloromethane	1.0	< 5.0	ug/L
Vinyl Chloride	1.0	< 5.0	ug/L
Bromomethane	1.0	< 5.0	ug/L
Chloroethane	1.0	< 5.0	ug/L
Trichlorofluoromethane	1.0	< 5.0	ug/L
Acetone	10	< 50	ug/L
1,1-Dichloroethene	1.0	**29**	**ug/L**
Iodomethane	1.0	< 5.0	ug/L
Methylene Chloride	1.0	< 5.0	ug/L
cis-1,2-Dichloroethene	1.0	< 5.0	ug/L
1,1-Dichloroethane	1.0	< 5.0	ug/L
trans-1,2-Dichloroethene	1.0	< 5.0	ug/L
2-Butanone	10	< 50	ug/L
Carbon Disulfide	1.0	< 5.0	ug/L
Chloroform	1.0	< 5.0	ug/L
1,2-Dichloroethane	1.0	< 5.0	ug/L
Vinyl Acetate	1.0	< 5.0	ug/L
1,1,1-Trichloroethane	1.0	**6.6**	**ug/L**
Carbon Tetrachloride	1.0	< 5.0	ug/L
Benzene	1.0	< 5.0	ug/L
1,2-Dichloropropane	1.0	< 5.0	ug/L
Trichloroethene	1.0	**530**	**ug/L**
Bromodichloromethane	1.0	< 5.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 50	ug/L
cis-1,3-Dichloropropene	1.0	< 5.0	ug/L
trans-1,3-Dichloropropene	1.0	< 5.0	ug/L
1,1,2-Trichloroethane	1.0	< 5.0	ug/L
Toluene	1.0	< 5.0	ug/L
1,2-Dibromoethane	1.0	< 5.0	ug/L
4-Methyl-2-Pentanone	10	< 50	ug/L
2-Hexanone	10	< 50	ug/L
Dibromochloromethane	1.0	< 5.0	ug/L
Tetrachloroethene	1.0	< 5.0	ug/L
Chlorobenzene	1.0	< 5.0	ug/L
Ethylbenzene	1.0	< 5.0	ug/L
m&p Xylenes	1.0	< 5.0	ug/L
o-Xylene	1.0	< 5.0	ug/L
Styrene	1.0	< 5.0	ug/L
Bromoform	1.0	< 5.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 5.0	ug/L
1,3-Dichlorobenzene	1.0	< 5.0	ug/L
1,4-Dichlorobenzene	1.0	< 5.0	ug/L
1,2-Dichlorobenzene	1.0	< 5.0	ug/L

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-01	MW-14	AQUEOUS	8/21/97	N/A	08/26/97	5

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		111 (76 - 114)
Toluene-d8		94 (88 - 110)
Bromofluorobenzene		91 (86 - 115)

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-02	MW-21	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	**2.6**	**ug/L**
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	**21**	**ug/L**
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**61**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-02	MW-21	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		109
		(76 - 114)
Toluene-d8		91
		(88 - 110)
Bromofluorobenzene		110
		(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-03	MW-22	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	**6.2**	**ug/L**
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	**21**	**ug/L**
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	**44**	**ug/L**
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	PH
Batch Id:	PHW175
Blank Result:	N/A
Anal. Method:	150.1
Prep. Method:	N/A
Analysis Date:	22-AUG-97
Prep. Date:	22-AUG-97

Sample Duplication

Sample Dup:	708369-1
Rept Limit:	N/A
Sample Result:	7.83
Dup Result:	7.80
Sample RPD:	0.03
Max RPD:	0.12
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	N/A
Rept Limit:	N/A
Sample Result:	
Spiked Result:	
Spike Added:	
% Recovery:	
% Rec Limits:	
Dry Weight%	

ICV

ICV Result:	10.07
True Result:	10.00
% Recovery:	101
% Rec Limits:	90-110

LCS

LCS Result:	7.00
True Result:	6.87
% Recovery:	102
% Rec Limits:	96-104

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708387
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

"Method Report Summary"

Accession Number: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	2.4
	NITRATE, NITROGEN (353.2-354.1)	MG/L	2.4
708376-02	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	2.6
	NITRATE, NITROGEN (353.2-354.1)	MG/L	2.6
708376-03	NITRITE-NITRATE, NITROGEN (353.2)	MG/L	7.0
	NITRATE, NITROGEN (353.2-354.1)	MG/L	7.0

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
708376-01	001	WATER	21-AUG-97 1500	22-AUG-97
708376-02	002	WATER	21-AUG-97 1218	22-AUG-97
708376-03	003	WATER	21-AUG-97 1358	22-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: NITRATE, NITROGEN (353.2-354.1)
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708376-01			Lab ID: 001		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	2.4	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	2.4	0.1	NONE	
Comments:					
Client ID: 708376-02			Lab ID: 002		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	2.6	0.1	N3W50B	
NITRATE, NITROGEN (353.2-354.1)	MG/L	2.6	0.1	NONE	
Comments:					
Client ID: 708376-03			Lab ID: 003		
NITRITE, NITROGEN (354.1)	MG/L	ND	0.1	N2W097	
NITRITE-NITRATE, NITROGEN (353.2)	MG/L	7.0	0.2	N3W50B	+
NITRATE, NITROGEN (353.2-354.1)	MG/L	7.0	0.1	NONE	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708387
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	PH (150.1)	UNITS	8.4
708376-02	PH (150.1)	UNITS	8.0
708376-03	PH (150.1)	UNITS	7.8

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client ID:	Lab Matrix: ID:	Date/Time Sampled:	Date Received:
708376-01	001 WATER	21-AUG-97 1500	22-AUG-97
708376-02	002 WATER	21-AUG-97 1218	22-AUG-97
708376-03	003 WATER	21-AUG-97 1358	22-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708387
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTON
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708376-01			Lab ID: 001		
PH (150.1)	UNITS	8.4	NA	PHW175	
Comments:					
Client ID: 708376-02			Lab ID: 002		
PH (150.1)	UNITS	8.0	NA	PHW175	
Comments:					
Client ID: 708376-03			Lab ID: 003		
PH (150.1)	UNITS	7.8	NA	PHW175	
Comments:					

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Analysis Report

Analysis: Group of Single Wetchem

Accession:	708387
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Department:	WET CHEM

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	708376
Project Location:	AGMP-3Q97-AP
Accession Number:	708387
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

American Environmental Network, Inc.

DATE OF ANALYSIS REPORT

AEN ID: 708361

08-Sep-97

METHOD	SAMPLE #	DATE	ANALYST
CHROMIUM HEXAVALENT (SM 3500 CR D)	01	08/22/97	CARLENE MCCUTCHEON
	02	08/22/97	CARLENE MCCUTCHEON
	03	08/22/97	CARLENE MCCUTCHEON

Standard Methods for the Examination of Water and Wastewater, 1989, 17th Ed.

005671

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708376
PROJECT NAME : SPARTON TECH ATI I.D. : 708361

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHROMIUM HEXAVALENT	MG/L	70836101	0.6	0.6	0	2.1	1.5	100

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

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

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 708361

CLIENT : AMERICAN ENV. NETWORK OF NM, INC.
PROJECT # : 708376
PROJECT NAME : SPARTON TECH

DATE RECEIVED : 08/21/97
REPORT DATE : 09/08/9

PARAMETER	UNITS	01	02	03
CHROMIUM HEXAVALENT (SM 3500	MG/L	0.6	<0.02	<0.02

American Environmental Network, Inc.

CLIENT : AMERICAN ENV. NETWORK OF NM, INC. DATE RECEIVED : 08/21/97
PROJECT # : 708376
PROJECT NAME : SPARTON TECH REPORT DATE : 09/08/97
ATI I.D. : 708361

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	708376-01	AQUEOUS	08/21/97
02	708376-02	AQUEOUS	08/21/97
03	708376-03	AQUEOUS	08/21/97

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	3

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 our sample control department before the scheduled disposal date.

American Environmental Network, Inc.

AEN I.D. 708361

September 8, 1997

American Environmental Network-NM
2709-D Pan American Frwy, NE
Albuquerque, NM 87107

Project Name/Number: Sparton Tech/708376

Attention: Kimberly D. McNeill

On 08/21/97, American Environmental Network (Arizona), Inc., received a request to analyze aqueous sample(s). The sample(s) 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 (602) 496-4400.

Linda Eshelman
Project Manager
LE/acc
Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\8260822.M (RTE Integrator)
Title : AEN New Mexico GC/MS
Last Update : Wed Aug 27 08:03:24 1997
Response via : Initial Calibration

Non-Spiked Sample: 082697B1.D

	Spike Sample	Spike Duplicate Sample
File ID :	082697S3.D	082697S4.D
Sample :	BS	BS
Acq Time:	26 Aug 97 6:56 pm	26 Aug 97 7:29 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	49	49	98	97	1	14	61-145
Benzene	0.1	50	51	51	101	103	2	11	76-127
Trichloroethene	0.0	50	54	54	108	107	1	14	71-120
Toluene	0.2	50	51	51	102	101	2	13	76-125
Chlorobenzene	0.1	50	51	51	103	103	0	13	75-130

- Fails Limit Check

8260822.M Wed Aug 27 08:11:30 1997

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		92
		(76 - 114)
Toluene-d8		98
		(88 - 110)
Bromofluorobenzene		90
		(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2		
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	082697	AQUEOUS	N/A	08/26/97	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8240		
CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D. :	708376
PROJECT #	: 082197-A2	DATE RECEIVED :	8/21/97
PROJECT NAME	: AGMP-3Q97-AP		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
708376-03	MW-22	AQUEOUS	8/21/97	N/A	08/26/97	1

PARAMETER	DET. LIMIT	UNITS
SURROGATE % RECOVERY		
1,2-Dichloroethane-d4		102
		(76 - 114)
Toluene-d8		95
		(88 - 110)
Bromofluorobenzene		102
		(86 - 115)

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
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METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: NITRATE, NITROGEN (353.2-354.1)

Accession:	708387
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTON
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 29-Aug-97

"WetChem Quality Control Report"

Parameter:	NO2	NO2NO3
Batch Id:	N2W097	N3W50B
Blank Result:	<0.1	<0.1
Anal. Method:	354.1	353.2
Prep. Method:	N/A	N/A
Analysis Date:	22-AUG-97	27-AUG-97
Prep. Date:	22-AUG-97	27-AUG-97

Sample Duplication

Sample Dup:	708387-1	708358-10
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.11
Dup Result:	<0.1	0.11
Sample RPD:	N/C	0G
Max RPD:	0.1	0.1
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	708387-1	708358-10
Rept Limit:	<0.1	<0.1
Sample Result:	<0.1	0.11
Spiked Result:	0.20	0.81
Spike Added:	0.20	1.00
% Recovery:	100	70
% Rec Limits:	85-117	70-127
Dry Weight%	N/A	N/A

ICV

ICV Result:	0.20	1.97
True Result:	0.20	2.00
% Recovery:	100	99
% Rec Limits:	90-110	90-110

LCS

LCS Result:		
True Result:		
% Recovery:		
% Rec Limits:		

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RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708387 Date Received: 22-Aug-97

1. Was there a Chain of Custody? (Yes) No*
2. Was Chain of Custody properly filled out and relinquished? (Yes) No*
3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) (Yes) No* N/A
4. Were all samples properly labeled and identified? (Yes) No*
5. Did samples require splitting? Yes* (No)
   Req By: PM Client Other+
6. Were samples received in proper containers for analysis requested? (Yes) No*
7. Were all sample containers received intact? (Yes) No*
8. Were samples checked for preservative? (Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)+ (Yes) No* N/A
9. Is there sufficient volume for analysis requested? (Yes) No*
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) (Yes) No*
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No (N/A)
12. If sent, were matrix spike bottles returned? Yes No* (N/A)
13. Was Project Manager notified of problems? (initials:_____) Yes No* (N/A)

Airbill Number(s): 2949975691/2949975813 Shipped By: FEDEX

Cooler Number(s): N/S Client Coolers Shipping Charges: N/A

Cooler Weight(s): N/A Cooler Temp(s) (°C): 3°C-CCK3, 3°C-CCK6

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: PHC Date: 8/22/97 Logged By: PHC Date: 8/22/97

* *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

\+ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE 8-21 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

708387

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	NO_3	NO_2	TOX	TOC	Gen Chemistry	pH		Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (815/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta	005685			NUMBER OF CONTAINERS
708376 -01	8-21	1500	AQ	1					X	X				X																			
-02		1218		2					X	X				X																			
-03		1388		3					X	X				X																			

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT NUMBER:	708376-	TOTAL NUMBER OF CONTAINERS		SAN DIEGO	
PROJECT NAME:	Sparton	CHAIN OF CUSTODY SEALS		Paragon	
QC LEVEL:	STD IV	INTACT?		RENTON	
QC REQUIRED:	MS MSD BLANK	RECEIVED GOOD COND./COLD		PENSACOLA	X
TAT:	STANDARD RUSH	LAB NUMBER		PORTLAND	
				PHOENIX	

DUE DATE: 9-3
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: YES NO

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1700	Signature: Time: 8/22/97
Printed Name: Brian Price Date: 8-21-97	Printed Name: Date:
Albuquerque NM	Company: AEN
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 0823
Printed Name: Date:	Printed Name: R. ELSPERMAN Date: 8/22/97
Company:	Company: AENFL

AUG 22 '97 08:59AM AEN NEW MEXICO P.2

AUG 22 '97 08:40AM AEN NEW MEXICO

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

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515 708387

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX	(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)	Nitrate as N	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	TKN	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	General Chemistry: Elec. Cond., Cl, SO4	pH	Cr+6	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3	TOC	NUMBER OF CONTAINERS
MW-14	8-21-97	1500	H2O	-01			X							X			X		X				X	X	X					X	X	12
MW-21	"	1218	"	-02			X							X			X		X				X	X	X					X	X	12
MW-22	"	1358	"	-03			X							X			X		X				X	X	X					X	X	12

005686

PROJECT INFORMATION

PROJ. NO.: 082197 - A2
PROJ. NAME: AGMP-3Q97-AP
P.O. NO.: 50650-02-06
SHIPPED VIA: Delivered

SAMPLE RECEIPT
NO. CONTAINERS: 36
CUSTODY SEALS: [illegible]
RECEIVED INTACT: [illegible]
BLUE ICE/ICE: [illegible]

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [signature] Time: 4:31	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: [signature] Time: 4:31
Printed Name: Date:	Printed Name: [signature] Date: 8-21-97
Company:	American Environmental Network (NM), Inc.

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTAN TECHNOLOGY
Project Number:	708376
Project Location:	AGMP-3Q97-AP
Accession Number:	708437
Project Manager:	KIMBERLY D. MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708376-01			Lab ID: 001		
CHLORIDE (325.3)	MG/L	32	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	740	1	CDW018	
SULFATE (375.4)	MG/L	150	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708376-02			Lab ID: 002		
CHLORIDE (325.3)	MG/L	16	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	600	1	CDW018	
SULFATE (375.4)	MG/L	73	20	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					
Client ID: 708376-03			Lab ID: 003		
CHLORIDE (325.3)	MG/L	17	1	CIW081	
CONDUCTIVITY (120.1/2510 B)	UMH/CM	690	1	CDW018	
SULFATE (375.4)	MG/L	78	50	SEW069	+
TOTAL KJELDAHL NITROGEN (351.2)	MG/L	ND	0.5	TAW41D	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client ID:	Lab Matrix: ID:	Date/Time Sampled:	Date Received:
708376-01	001 WATER	21-AUG-97 1500	26-AUG-97
708376-02	002 WATER	21-AUG-97 1218	26-AUG-97
708376-03	003 WATER	21-AUG-97 1358	26-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	CHLORIDE (325.3)	MG/L	32
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	740
	SULFATE (375.4)	MG/L	150
708376-02	CHLORIDE (325.3)	MG/L	16
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	600
	SULFATE (375.4)	MG/L	73
708376-03	CHLORIDE (325.3)	MG/L	17
	CONDUCTIVITY (120.1/2510 B)	UMH/CM	690
	SULFATE (375.4)	MG/L	78

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Metals

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
708376-01	001	WATER	21-AUG-97 1500	26-AUG-97
708376-02	002	WATER	21-AUG-97 1218	26-AUG-97
708376-03	003	WATER	21-AUG-97 1358	26-AUG-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708376-01			Lab ID:001		
BORON (200.7)	MG/L	0.91	0.09	O0W215	
CHROMIUM (200.7)	MG/L	0.68	0.01	H0W215	
MANGANESE (200.7)	MG/L	ND	0.01	G0W215	
SODIUM (200.7)	MG/L	56	0.2	10W215	
NICKEL (200.7)	MG/L	ND	0.02	E0W215	
Comments:					
Client ID: 708376-02			Lab ID:002		
BORON (200.7)	MG/L	0.14	0.09	O0W215	
CHROMIUM (200.7)	MG/L	ND	0.01	H0W215	
MANGANESE (200.7)	MG/L	0.03	0.01	G0W215	
SODIUM (200.7)	MG/L	42	0.2	10W215	
NICKEL (200.7)	MG/L	ND	0.02	E0W215	
Comments:					
Client ID: 708376-03			Lab ID:003		
CHROMIUM (200.7)	MG/L	ND	0.01	H0W215	
BORON (200.7)	MG/L	0.18	0.09	O0W215	
MANGANESE (200.7)	MG/L	0.04	0.01	G0W215	
SODIUM (200.7)	MG/L	46	0.2	10W215	
NICKEL (200.7)	MG/L	ND	0.02	E0W215	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: Group of Single Metals

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	BORON (200.7)	MG/L	0.91
	CHROMIUM (200.7)	MG/L	068
	SODIUM (200.7)	MG/L	56
708376-02	BORON (200.7)	MG/L	0.14
	MANGANESE (200.7)	MG/L	0.03
	SODIUM (200.7)	MG/L	42
708376-03	BORON (200.7)	MG/L	0.18
	MANGANESE (200.7)	MG/L	0.04
	SODIUM (200.7)	MG/L	46

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 001 Sample Date/Time: 21-AUG-97 1500
Client Sample Id: 708376-01 Received Date: 26-AUG-97

Batch: TOW080 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	002	Sample Date/Time:	21-AUG-97 1218
Client Sample Id:	708376-02	Received Date:	26-AUG-97
Batch: TOW080		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	03-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 003 Sample Date/Time: 21-AUG-97 1358
Client Sample Id: 708376-03 Received Date: 26-AUG-97

Batch: TOW080 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 03-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	TOTAL ORGANIC CARBON	MG/L	2

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-100

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 001 Sample Date/Time: 21-AUG-97 1500
Client Sample Id: 708376-01 Received Date: 26-AUG-97

Batch: TXW043 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	7.8	10	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 002 Sample Date/Time: 21-AUG-97 1218
Client Sample Id: 708376-02 Received Date: 26-AUG-97

Batch: TXW043 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	26	10	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 003 Sample Date/Time: 21-AUG-97 1358
Client Sample Id: 708376-03 Received Date: 26-AUG-97

Batch: TXW043 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 05-SEP-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	60	10	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 708437
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708376
Project Name: SPARTAN TECHNOLOGY
Project Location: AGMP-3Q97-AP
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
708376-01	TOTAL ORGANIC HALIDES	MG/L	7.8
708376-02	TOTAL ORGANIC HALIDES	MG/L	26
708376-03	TOTAL ORGANIC HALIDES	MG/L	60

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 03-Sep-97

"WetChem Quality Control Report"

Parameter:	CHLORIDE	CONDUCT'Y	SULFATE	TKN AUTO
Batch Id:	CIW081	CDW018	SEW069	TAW41D
Blank Result:	<1	<1	<10	<0.5
Anal. Method:	325.3	120.1	375.4	351.2
Prep. Method:	N/A	N/A	N/A	N/A
Analysis Date:	26-AUG-97	29-AUG-97	27-AUG-97	29-AUG-97
Prep. Date:	26-AUG-97	29-AUG-97	27-AUG-97	25-AUG-97
Sample Duplication				
Sample Dup:	708383-1	708383-3	708383-1	708383-1
Rept Limit:	<1	<1	<50+	<0.5
Sample Result:	18.7	4.4	116.5	<0.5
Dup Result:	18.9	4.4	115.5	<0.5
Sample RPD:	1	0G	1G	N/C
Max RPD:	6	1	50	0.5
Dry Weight%	N/A	N/A	N/A	N/A
Matrix Spike				
Sample Spiked:	708383-1	N/A	708383-1	708383-1
Rept Limit:	<1	N/A	<100+	<0.5
Sample Result:	18.7		116.5	<0.5
Spiked Result:	76.5		296.0	4.41
Spike Added:	55.0		200.0	4.00
% Recovery:	105		90	110
% Rec Limits:	88-113		64-150	64-122
Dry Weight%	N/A		N/A	N/A
ICV				
ICV Result:	93.5	1433	21.3	10.37
True Result:	100	1412	20.0	10.00
% Recovery:	94	101	107	104
% Rec Limits:	90-110	90-110	90-110	90-110
LCS				
LCS Result:				8.86
True Result:				10.00
% Recovery:				89
% Rec Limits:				67-114

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:	Comments:
CIW081	708438-1; 708457-2,5,6,10 WERE ADDED TO BATCH ON 27-AUG-97
SEW069	708440-1,2,3,4,5; 708437-1,2,3 WERE ADDED TO BATCH ON 28-AUG-97
TAW41D	708427-1; 708437-1,2,3; WERE ADDED TO BATCH ON 26-AUG-97
TAW41D	708448-1,2,3,; 708440-5 WERE ADDED TO BATCH ON 27-AUG-97

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Metals

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	METALS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	BORON	CHROMIUM	MANGANESE	SODIUM	NICKEL
Batch Id:	O0W215	H0W215	G0W215	10W215	E0W215
Blank Result:	<0.09	<0.01	<0.01	<0.2	<0.02
Anal. Method:	200.7	200.7	200.7	200.7	200.7
Prep. Method:	200.7	200.7	200.7	200.7	200.7
Analysis Date:	08-SEP-97	04-SEP-97	08-SEP-97	09-SEP-97	08-SEP-97
Prep. Date:	29-AUG-97	29-AUG-97	29-AUG-97	29-AUG-97	28-AUG-97
Sample Duplication					
Sample Dup:	708437-1	708437-1	708437-1	708437-1	708437-1
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	2.9	2.7	2.0	76	2.0
Dup Result:	2.9	2.7	2.0	76	2.0
Sample RPD:	0	0	0	0	0
Max RPD:	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A
Matrix Spike					
Sample Spiked:	708437-1	708437-1	708437-1	708437-1	708437-1
Rept Limit:	<0.09	<0.01	<0.01	<0.2	<0.02
Sample Result:	0.91	0.68	<0.01	56	<0.02
Spiked Result:	2.9	2.7	2.0	76	2.0
Spike Added:	2.0	2.0	2.0	20	2.0
% Recovery:	100	101	100	100	100
% Rec Limits:	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A
ICV					
ICV Result:	5.0	5.0	4.9	25	4.8
True Result:	5.0	5.0	5.0	25	5.0
% Recovery:	100	100	98	100	96
% Rec Limits:	90-110	90-110	90-110	90-110	90-110
LCS					
LCS Result:	2.0	20	2.1	20	2.1
True Result:	2.0	20	2.0	20	2.0
% Recovery:	100	100	105	100	105
% Rec Limits:	80-120	80-120	80-120	80-120	80-120

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Quality Control Comments"

Batch Id:	Comments:
O0W215	ANALYST: JR
O0W215	The results reported under "Sample Duplication" are the MS/MSD.
H0W215	ANALYST: JLH
H0W215	The results reported under "Sample Duplication" are the MS/MSD.
G0W215	ANALYST: JLH
G0W215	The results reported under "Sample Duplication" are the MS/MSD.
10W215	ANALYST: JLH
10W215	The results reported under "Sample Duplication" are the MS/MSD.
E0W215	ANALYST: JLH
E0W215	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM ANALYSIS REPORT:
REPT LMTS = REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
REPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS. (NOT ADJUSTED FOR DRY WEIGHT).

SW-846, 3rd Edition, latest revision.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 4th Edition.
Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992.
Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994.

GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JR = JOHN REED
LV = LASSANDRA VON APPEN

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Blank Id: A Date Analyzed: 03-SEP-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	KL	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TOW080
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708437-2

MS Date Analyzed: 03-SEP-97
MSD Date Analyzed: 03-SEP-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	7.2	107	7.2	107	0	30	51-135

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG = MICROGRAMS
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/M3 = MILLIGRAM PER CUBIC METER.
PPMV = PART PER MILLION BY VOLUME.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
< = LESS THAN.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
Y = IMPROPER PRESERVATION, NO PRESERVATIVE PRESENT IN SAMPLE UPON RECEIPT.

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	708437
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708376
Project Name:	SPARTAN TECHNOLOGY
Project Location:	AGMP-3Q97-AP
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 08-Sep-97

"QC Report"

Title: Water Blank
Batch: TXW043
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 05-SEP-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	KL	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TXW043
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 708437-1

MS Date Analyzed: 05-SEP-97
MSD Date Analyzed: 05-SEP-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.050	7.84	7.92	160*	7.90	120	29*	20	75-125

Surrogates:

Comments:
MATRIX SPIKE/MATRIX SPIKE DUPLICATE HAD RECOVERY(S) AND/OR RPD(S) OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common Notation for Organic Reporting

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PPMG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

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SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

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PLD = PAULA DOUGHTY

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708437 Date Received: 26-Aug-97

1. Was there a Chain of Custody? (Yes) No*
2. Was Chain of Custody properly filled out and relinquished? (Yes) No*
3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) (Yes) No* N/A
4. Were all samples properly labeled and identified? (Yes) No*
5. Did samples require splitting? Yes* (No)
   Req By: PM Client Other*
6. Were samples received in proper containers for analysis requested? (Yes) No*
7. Were all sample containers received intact? (Yes) No*
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+ (Yes) No* N/A
9. Is there sufficient volume for analysis requested? (Yes) No*
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) (Yes) No*
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No (N/A)
12. If sent, were matrix spike bottles returned? Yes No* (N/A)
13. Was Project Manager notified of problems? (initials:_____) (Yes) No* ~~(N/A)~~ LK 8/2.
    Red folder

Airbill Number(s): 2950482403 Shipped By: Fedx

Cooler Number(s): N/S Shipping Charges: N/A

Cooler Weight(s): N/A Cooler Temp(s) (°C): 10 C

CCK5

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

ALL ME PH's < 2 LK 8/26/97

COC request HXCR, but per L. Lofton this Analysis is being Performed @ AEN/~~ALBQ~~ AZ. LK 8/26/97

(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: L. Kitt Date 26-Aug-97 Logged By: L. Kitt Date 26-Aug-97

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

◆ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Caroline, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE 8-26 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

708437

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Metals: B, Mn, Ni; Na, Cr+3		TOX	TOC	Gen Chemistry: TKN, cond, cl, so4			Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta		0057723		NUMBER OF CONTAINERS
708376-01	8-21	1500	AQ						X		X	X	X																				
-02		1218							X		X	X	X																				
-03		1358							X		X	X	X																				

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT NUMBER	~~Short~~ 708376	TOTAL NUMBER OF CONTAINERS		SAN DIEGO	
PROJECT NAME	Spartan technology	CHAIN OF CUSTODY SEALS		Paragon	
QC LEVEL	810 IV	INTACT?		RENTON	
QC REQUIRED	MS MSD BLANK	RECEIVED GOOD COND./COLD		PENSACOLA	X
TAT	STANDARD RUSH	LAB NUMBER		PORTLAND	
				PHOENIX	

DUE DATE: 9-3
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: YES NO

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1700	Signature Time
Printed Name: Brian Price Date: 8-25-97	Printed Name: Date
Albuquerque NM	Company
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Linda Kitt Time: 0840	Signature: Time:
Printed Name: Linda Kitt Date: 8/26/97	Printed Name: Date:
Company: AEN/71	Company:

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

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX 1	(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)	Nitrate as N 2	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS 3	Volatile Organics (8260) GC/MS	TKN 1	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec. Cond., Cl, SO4 1	General Chemistry:	pH 1	Cr+6 1	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3 (6)	TOC 1	NUMBER OF CONTAINERS 12
MW-14	8-21-97	1300	H_2O	-01			X							X			X		X				X		X	X					X	X	X
MW-21	"	1218	"	-02			X							X			X		X				X		X	X					X	X	X
MW-22	"	1358	"	-03			X							X			X		X				X		X	X					X	X	X

005724

PROJECT INFORMATION	
PROJ. NO.: 082197-A2	
PROJ. NAME: AGMP-3Q97-AP	
P.O. NO.: 50650-02-06	
SHIPPED VIA: Delivered	
SAMPLE RECEIPT	
NO. CONTAINERS	36
CUSTODY SEALS	Y/N/NA
RECEIVED INTACT	yes
BLUE ICE/ICE	ice

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [signature] Time: 4:31	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: [signature] Time: 4:31
Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
Company:	American Enviromental Network (NM), Inc.

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr (Hexavalent)		TOX	TOC	Gen Chemistry			Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta		005725		NUMBER OF CONTAINERS
708376-01	8-21	1500	AQ	1					X																								
-02		1218		2					X																								
-03		1358		3					X																								

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJECT NUMBER: 708376	TOTAL NUMBER OF CONTAINERS	SAN DIEGO	Signature: Time: 1700	Signature: Time
	CHAIN OF CUSTODY SEALS	Paragon	Printed Name: Date: 8-21-92	Printed Name: Date

708361

Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777

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

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX	(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 (801/8010)	Nitrate as N	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	TKN	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec. Cond., Cl, SO4	General Chemistry:	pH	Cr+6	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3	TOC	NUMBER OF CONTAINERS
							1							2			3		1				1		1	1					3	1	12
MW-14	8-21-97	1500	H2O	-01			X							X			X		X				X		X	X					X	X	12
MW-21	"	1218	"	-02			X							X			X		X				X		X	X					X	X	12
MW-22	"	1358	"	-03			X							X			X		X				X		X	X					X	X	12

PROJECT INFORMATION
PROJ. NO.: 082197 - A2

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒
CERTIFICATION REQUIRED: ☐ NPDES ☐ SDWA ☐ OTHER

cooler

RELINQUISHED BY: 1.
Signature: Time: 4:31
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:

RECEIVED BY: 2.
Signature: Time:
Printed Name: Date:
Company: American Environmental Network (NM), Inc.

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 8-21 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	Cr Pb (Hexavalent)		TOX	TOC	Gen Chemistry			Oil and Grease	BOD	COD	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)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
708376 -01	8-21	1500	AQ	1					X																								
-02		1218		2					X																								
-03		1358		3					X																								

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJECT NUMBER 708376	TOTAL NUMBER OF CONTAINERS	SAN DIEGO	Signature: Time: 1700	Signature Time
	CHAIN OF CUSTODY SEALS	Paragon	Printed Name: Date: 8/21/97	Printed Name Date

708361

Labs: San Diego (619) 458 9141 • Phoenix (602) 496-4400 • Seattle (206) 228 8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777

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

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
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)	Nitrate as N	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	TKN	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Elec. Cond., Cl, SO4	General Chemistry:	pH	Cr+6	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3	TOC	NUMBER OF CONTAINERS
							1						2			2		1				1		1	1					61	1	12
MW-14	8-21-97	1300	H2O	-01			X						X			X		X				X		X	X					X	X	5
MW-21	"	1218	"	-02			X						X			X		X				X		X	X					X	X	5
MW-22	"	1358	"	-03			X						X			X		X				X		X	X				005728	X	X	5

PROJECT INFORMATION
PROJ. NO.: 082197 - A2

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) X
CERTIFICATION REQUIRED: ☐ NPDES ☐ SDWA ☐ OTHER

cooler

RELINQUISHED BY: 1.
Signature: [illegible] Time: 4:31
Printed Name: John Wakefield Date: 8-21-97
Company: S.T.I. 892-5300

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:

RECEIVED BY: 2.
Signature: Time: 4:31
Printed Name: Date: 8-21-97
Company: American Environmental Network (NM), Inc.

PLEASE PRINT IN COMPLETELY.

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

CHAIN OF CUSTODY

DATE: 8-21-97 PAGE: 1 OF 1

AEN LAB I.D. 708376

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John M. Wakefield

COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 9621 Coors Rd., NW
Albuquerque, NM 87114
PHONE: (505) 892-5300
FAX: (505) 892-5515

BILL TO: John M. Wakefield
COMPANY: SPARTON TECHNOLOGY, INC.
ADDRESS: 4901 Rockaway Blvd., NE
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	TOX 1	(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)	Nitrate as N 3	504 EDB ☐ / DBCP ☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS 3	Volatile Organics (8260) GC/MS	TKN 1	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	General Chemistry: Elec. Cond., Cl, SO4 1	pH 1	Cr+6 1	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals: B, Mn, Ni, Na, Cr+3 (6)	TOC 1	NUMBER OF CONTAINERS
MW-14	8-21-97	1500	H2O	-01			X							X			X		X				X	X	X					X	X	12
MW-21	"	1218	"	-02			X							X			X		X				X	X	X					X	X	12
MW-22	"	1358	"	-03			X							X			X		X				X	X	X					X	X	12

00572 9

PROJECT INFORMATION	
PROJ. NO.:	082197-A2
PROJ. NAME:	AGMP-3Q97-AP
P.O. NO.:	50650-02-06
SHIPPED VIA:	Delivered

SAMPLE RECEIPT	
NO. CONTAINERS	36
CUSTODY SEALS	Y/N/NA
RECEIVED INTACT	yes
BLUE ICE/ICE	ice

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

C of C Seals on cooler

From Field

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: [signature] Time: 4:31	Signature: Time:
Printed Name: John Wakefield Date: 8-21-97	Printed Name: Date:
Company: S.T.I. 892-5300	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: [signature] Time: 4:31
Printed Name: Date:	Printed Name: Brian Price Date: 8-21-97
Company:	American Environmental Network (NM), Inc.

SECTION 12

FOURTH QUARTER, 1997

LABORATORY REPORT

005730

American Environmental Network, Inc.

4Q 1997 AGMP
PZ-2 = Field Blank

AEN I.D. 710410

November 13, 1997

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124

Project Name AGMP-4Q97
Project Number 102397-A

Attention: JOHN WAKEFIELD

On 10/23/97 American Environmental Network (NM), 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.

This report is being reissued in part to correct a typographical error. This report was originally submitted on 11/11/97. We apologize for any inconvenience this may have caused.

EPA method 8010 was performed by American Environmental Network (NM) Inc., Albuquerque, NM.

All other parameters were analyzed by American Environmental Network (FL) Inc., Pensacola, FL.

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

005731

Enclosure

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

American Environmental Network, Inc.

AEN I.D. 710410

November 11, 1997

SPARTON TECHNOLOGIES, INC.
4901 ROCKAWAY BLVD. SE
RIO RANCHO, NM 87124

Project Name AGMP-4Q97
Project Number 102397-A

Attention: JOHN WAKEFIELD

On 10/23/97 American Environmental Network (NM), 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.

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All other parameters were analyzed by American Environmental Network (FL) Inc., Pensacola, FL.

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

005732

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 710410
PROJECT #	: 102397-A	DATE RECEIVED	: 10/23/97
PROJECT NAME	: AGMP-4Q97	REPORT DATE	: 11/11/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-19	AQUEOUS	10/23/97
02	MW-20	AQUEOUS	10/23/97
03	MW-14	AQUEOUS	10/23/97
04	MW-9	AQUEOUS	10/23/97
05	MW-21	AQUEOUS	10/23/97
06	MW-22	AQUEOUS	10/23/97
07	PZ-2	AQUEOUS	10/23/97
08	MW-16	AQUEOUS	10/23/97
09	TRIP BLANK	AQUEOUS	10/15/97

005733

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 710410
PROJECT # : 102397-A
PROJECT NAME : AGMP-4Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-19	AQUEOUS	10/23/97	NA	11/4/97	1
02	MW-20	AQUEOUS	10/23/97	NA	11/4/97	1
03	MW-14	AQUEOUS	10/23/97	NA	11/4/97	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	< 0.5	< 0.5	**3.5**
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**0.8**	< 0.2	**34**
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	< 0.5	< 0.5	**1.7**
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	< 1.0	< 1.0	**9.1**
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	< 0.2	< 0.2	**0.6**
TRICHLOROETHENE	0.3	**UG/L**	**16**	< 0.3	**860 (D50)**
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			107	115	103
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D50) 50X DILUTION ANALYZED 11-4-97

005734

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 710410
PROJECT # : 102397-A
PROJECT NAME : AGMP-4Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	MW-9	AQUEOUS	10/23/97	NA	11/4/97	1
05	MW-21	AQUEOUS	10/23/97	NA	11/4/97	1
06	MW-22	AQUEOUS	10/23/97	NA	11/4/97	1

PARAMETER	DET. LIMIT	UNITS	04	05	06
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	**2.2**	< 0.5	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	**UG/L**	**1.3**	< 0.3	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**41**	**3.3**	**9.3**
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	**UG/L**	**190 (D50)**	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	**2.3**	**0.7**	**3.8**
1,1-TRICHLOROETHANE	1.0	**UG/L**	**43**	**37**	**27**
1,2-TRICHLOROETHANE	0.2	**UG/L**	**0.2**	< 0.2	< 0.2
TRICHLOROETHENE	0.3	**UG/L**	**500 (D50)**	**130 (D5)**	**54**
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			107	97	96
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D50) 50X DILUTION ANALYZED 11-5-97
(D5) 5X DILUTION ANALYZED 11-5-97

005735

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8010)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 710410
PROJECT # : 102397-A
PROJECT NAME : AGMP-4Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	PZ-2	AQUEOUS	10/23/97	NA	11/4/97	1
08	MW-16	AQUEOUS	10/23/97	NA	11/4/97	1
09	TRIP BLANK	AQUEOUS	10/15/97	NA	11/4/97	1

PARAMETER	DET. LIMIT	UNITS	07	08	09
BROMODICHLORMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
BROMOFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
CHLOROFORM	0.5	**UG/L**	**2.2**	**2.7**	< 0.5
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DIBROMOETHANE (EDB)	0.2	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	0.3	**UG/L**	< 0.3	**0.7**	< 0.3
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	< 0.2	**64 (D50)**	< 0.2
cis-1,2-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
cis-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	**UG/L**	**2.4**	< 2.0	< 2.0
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	< 0.5	**44**	< 0.5
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	< 1.0	**700 (D50)**	< 1.0
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	< 0.2	**4.6**	< 0.2
TRICHLOROETHENE	0.3	**UG/L**	**0.9**	**3900(D500)**	< 0.3
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			105	88	103
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D50) 50X DILUTION ANALYZED 11-5-97
(D500) 500X DILUTION ANALYZED 11-5-97

005736

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 110497	AEN I.D.	: 710410
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 102397-A	DATE ANALYZED	: 11/4/97
PROJECT NAME	: AGMP-4Q97	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		110
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

005737

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 110497B	AEN I.D.	: 710410
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 102397-A	DATE ANALYZED	: 11/4/97
PROJECT NAME	: AGMP-4Q97	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		111
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

005738

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8010		
BLANK I.D.	: 110597	AEN I.D.	: 710410
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 102397-A	DATE ANALYZED	: 11/5/97
PROJECT NAME	: AGMP-4Q97	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
BROMODICHLORMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
cis-1,2-DICHLOROETHENE	UG/L	<0.2
trans-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
cis-1,3-DICHLOROPROPENE	UG/L	<0.2
trans-1,3-DICHLOROPROPENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		109
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

005739

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GAS CHROMOTOGRAPHY - QUALITY CONTROL
MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8010)		
MSMSD #	: 710410-02	AEN I.D.	: 710410
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 102397-A	DATE ANALYZED	: 11/5/97
PROJECT NAME	: AGMP-4Q97	SAMPLE MATRIX	: AQUEOUS
		UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
CHLOROBENZENE	<0.5	10.0	9.4	94	10.1	101	7	(87 - 124)	20
1,1-DICHLOROETHENE	<0.2	10.0	6.0	60	6.2	62	3	(44 - 99)	20
TRICHLOROETHENE	<0.3	10.0	11.1	111	12.1	121	9	(89 - 127)	20

CHEMIST NOTES:
N/A

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

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

005740

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SIGNATURE PAGE

Reviewed by: Linda Lotton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC. ALBUQUERQUE, NEW MEXICO
Project Name:	SPARTON
Project Number:	710410
Project Location:	AGMP-4Q97
Accession Number:	710403
Project Manager:	KIM MCNEILL
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 710410-01			Lab ID: 001		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	730	1	CDW022	
PH (150.1)	UNITS	8.0	NA	PHW218	
Comments:					
Client ID: 710410-02			Lab ID: 002		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	620	1	CDW022	
PH (150.1)	UNITS	7.7	NA	PHW218	
Comments:					
Client ID: 710410-03			Lab ID: 003		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	780	1	CDW022	
PH (150.1)	UNITS	8.0	NA	PHW218	
Comments:					
Client ID: 710410-04			Lab ID: 004		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	640	1	CDW022	
PH (150.1)	UNITS	7.5	NA	PHW218	
Comments:					
Client ID: 710410-05			Lab ID: 005		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	620	1	CDW022	
PH (150.1)	UNITS	7.7	NA	PHW218	
Comments:					
Client ID: 710410-06			Lab ID: 006		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	690	1	CDW022	
PH (150.1)	UNITS	7.5	NA	PHW218	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 710410-07			Lab ID: 007		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	3	1	CDW022	
PH (150.1)	UNITS	5.9	NA	PHW218	
Comments:					
Client ID: 710410-08			Lab ID: 008		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	930	1	CDW022	
PH (150.1)	UNITS	8.0	NA	PHW218	
Comments:					
Client ID: 710410-09			Lab ID: 009		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	2	1	CDW022	
PH (150.1)	UNITS	5.7	NA	PHW218	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
710410-01	001	WATER	23-OCT-97 0916	24-OCT-97
710410-02	002	WATER	23-OCT-97 0912	24-OCT-97
710410-03	003	WATER	23-OCT-97 1043	24-OCT-97
710410-04	004	WATER	23-OCT-97 1025	24-OCT-97
710410-05	005	WATER	23-OCT-97 1120	24-OCT-97
710410-06	006	WATER	23-OCT-97 1235	24-OCT-97
710410-07	007	WATER	23-OCT-97 1250	24-OCT-97
710410-08	008	WATER	23-OCT-97 1235	24-OCT-97
710410-09	009	WATER	23-OCT-97 1500	24-OCT-97

"Method Report Summary"

Accession Number: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
710410-01	CONDUCTIVITY (120.1/2510 B)	UMH/CM	730
	PH (150.1)	UNITS	8.0
710410-02	CONDUCTIVITY (120.1/2510 B)	UMH/CM	620
	PH (150.1)	UNITS	7.7
710410-03	CONDUCTIVITY (120.1/2510 B)	UMH/CM	780
	PH (150.1)	UNITS	8.0
710410-04	CONDUCTIVITY (120.1/2510 B)	UMH/CM	640
	PH (150.1)	UNITS	7.5
710410-05	CONDUCTIVITY (120.1/2510 B)	UMH/CM	620
	PH (150.1)	UNITS	7.7
710410-06	CONDUCTIVITY (120.1/2510 B)	UMH/CM	690
	PH (150.1)	UNITS	7.5
710410-07	CONDUCTIVITY (120.1/2510 B)	UMH/CM	3
	PH (150.1)	UNITS	5.9
710410-08	CONDUCTIVITY (120.1/2510 B)	UMH/CM	930
	PH (150.1)	UNITS	8.0
710410-09	CONDUCTIVITY (120.1/2510 B)	UMH/CM	2
	PH (150.1)	UNITS	5.7

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	001	Sample Date/Time:	23-OCT-97 0916
Client Sample Id:	710410-01	Received Date:	24-OCT-97
Batch: TOW104		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	1	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	002	Sample Date/Time:	23-OCT-97 0912
Client Sample Id:	710410-02	Received Date:	24-OCT-97
Batch: TOW104		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	003	Sample Date/Time:	23-OCT-97 1043
Client Sample Id:	710410-03	Received Date:	24-OCT-97
Batch: TOW104		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	1	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 23-OCT-97 1025
Client Sample Id: 710410-04 Received Date: 24-OCT-97

Batch: TOW104 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	2	1	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 005 Sample Date/Time: 23-OCT-97 1120
Client Sample Id: 710410-05 Received Date: 24-OCT-97

Batch: TOW104 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-020,March 1983.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	II

Lab Id:	006	Sample Date/Time:	23-OCT-97 1235
Client Sample Id:	710410-06	Received Date:	24-OCT-97
Batch: TOW104		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 007
Client Sample Id: 710410-07

Sample Date/Time: 23-OCT-97 1250
Received Date: 24-OCT-97

Batch: TOW104
Blank: B Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 008 Sample Date/Time: 23-OCT-97 1235
Client Sample Id: 710410-08 Received Date: 24-OCT-97

Batch: TOW104 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	1	1	
ANALYST	INITIALS	KL		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A
Matrix: WATER
QC Level: II

Lab Id: 009
Client Sample Id: 710410-09

Sample Date/Time: 23-OCT-97 1500
Received Date: 24-OCT-97

Batch: TOW104
Blank: B Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	ND	1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
710410-01	TOTAL ORGANIC CARBON	MG/L	1
710410-02	TOTAL ORGANIC CARBON	MG/L	2
710410-03	TOTAL ORGANIC CARBON	MG/L	1
710410-04	TOTAL ORGANIC CARBON	MG/L	2
710410-08	TOTAL ORGANIC CARBON	MG/L	1

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 001 Sample Date/Time: 23-OCT-97 0916
Client Sample Id: 710410-01 Received Date: 24-OCT-97

Batch: TXW059 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 30-OCT-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.01	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 002
Client Sample Id: 710410-02

Sample Date/Time: 23-OCT-97 0912
Received Date: 24-OCT-97

Batch: TXW060
Blank: A Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 31-OCT-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.01	0.01	
ANALYST	INITIALS	PLD		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 003 Sample Date/Time: 23-OCT-97 1043
Client Sample Id: 710410-03 Received Date: 24-OCT-97

Batch: TXW060 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 31-OCT-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.47	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 004
Client Sample Id: 710410-04
Sample Date/Time: 23-OCT-97 1025
Received Date: 24-OCT-97

Batch: TXW060
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 31-OCT-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.43	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 005 Sample Date/Time: 23-OCT-97 1120
Client Sample Id: 710410-05 Received Date: 24-OCT-97

Batch: TXW060 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 31-OCT-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.10	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 006
Client Sample Id: 710410-06

Sample Date/Time: 23-OCT-97 1235
Received Date: 24-OCT-97

Batch: TXW060
Blank: A Dry Weight %: N/A

Extraction Date: N/A
Analysis Date: 31-OCT-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.11	0.01	
ANALYST	INITIALS	PLD		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 007 Sample Date/Time: 23-OCT-97 1250
Client Sample Id: 710410-07 Received Date: 24-OCT-97

Batch: TXW060 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 31-OCT-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.01	0.01	
ANALYST	INITIALS	PLD		

Comments:

AMERICAN ENVIRONMENTAL

"FINAL REPORT FORMAT - SINGLE"

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Test:	TOTAL ORGANIC HALIDES IN WATER
Analysis Method:	9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	N/A
Matrix:	WATER
QC Level:	IIM

Lab Id:	008	Sample Date/Time:	23-OCT-97 1235
Client Sample Id:	710410-08	Received Date:	24-OCT-97
Batch: TXW060		Extraction Date:	N/A
Blank: B	Dry Weight %: N/A	Analysis Date:	04-NOV-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	1.3	0.1	
ANALYST	INITIALS	KL		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A
Matrix: WATER
QC Level: IIM

Lab Id: 009 Sample Date/Time: 23-OCT-97 1500
Client Sample Id: 710410-09 Received Date: 24-OCT-97

Batch: TXW060 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 31-OCT-97

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01	
ANALYST	INITIALS	PLD		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 710403
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 710410
Project Name: SPARTON
Project Location: AGMP-4Q97
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
710410-01	TOTAL ORGANIC HALIDES	MG/L	0.01
710410-02	TOTAL ORGANIC HALIDES	MG/L	0.01
710410-03	TOTAL ORGANIC HALIDES	MG/L	0.47
710410-04	TOTAL ORGANIC HALIDES	MG/L	0.43
710410-05	TOTAL ORGANIC HALIDES	MG/L	0.10
710410-06	TOTAL ORGANIC HALIDES	MG/L	0.11
710410-07	TOTAL ORGANIC HALIDES	MG/L	0.01
710410-08	TOTAL ORGANIC HALIDES	MG/L	1.3

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Rd Pensacola, FL 32514 (850) 474-1001

Data Qualifiers for Final Report

AEN-Pensacola Inorganic/Organic

@	Adjusted reporting limit due to sample matrix (dilution prior to digestion and/or analysis)
+	Elevated reporting limit due to dilution into calibration range
*	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)
#	Elevated reporting limit due to insufficient sample size
D	Diluted out
J5	The reported value is quantitated as a TIC; therefore, it is estimated
ND = Not Detected	N/S = Not Submitted N/A = Not Applicable

Florida Projects Inorganic/Organic

Y1	Improper preservation, no preservative present in sample upon receipt
Y2	Improper preservation, incorrect preservative present in sample upon receipt
Y3	Improper preservation, sample temperature exceeded EPA temperature limits of 2-6°C upon receipt
Y (FL description)	The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
Q	Sample held beyond the accepted holding time
I	The reported value is < Laboratory RL and > laboratory MDL
U1	The reported value is ≤ Laboratory MDL (value for sample result is reported as the MDL)
U (FL description)	Indicates the compound was analyzed for but not detected.
T	The reported value is < Laboratory MDL (value shall not be used for statistical analysis)
V	The analyte was detected in both the sample and the associated method blank.
J1	Surrogate recovery limits have been exceeded
J2	The sample matrix interfered with the ability to make any accurate determinations
J3	The reported value failed to meet the established quality control criteria for either precision or accuracy
J (FL description)	Estimated value; not accurate.

AFCEE Projects (under QAPP) and All Other (AEN-PN) Projects/Sites for Inorganic/Organic Parameters

J4	(For positive results) Temperature limits exceeded (≤2°C or ≥ 6°C)
J (AFCEE description)	The analyte was positively identified, the quantitation is an estimation
R1	(For nondetects) Temperature limits exceeded (≤2°C or ≥ 6°C)
R2	Improper preservation, no preservative present in sample upon receipt
R3	Improper preservation, incorrect preservative present in sample upon receipt
R4	Holding time exceeded
R5	Collection requirements not met, improper container used for sample
R (AFCEE description)	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
F	< RL and > laboratory MDL
F (AFCEE description)	The analyte was positively identified but the associated numerical value is below the AFCEE or lab RL
U2	≤ Laboratory MDL (value for result will be the MDL, never below the MDL)
U (AFCEE description)	The analyte was analyzed for but not detected. The associated numerical value is at or below the MDL
B (AFCEE description)	The analyte was found in the associated blank, as well as in the sample

ICR Projects Inorganic/Organic

A	Acceptable
R6	Rejected

Examples: ICR Flags

R6 = Laboratory extracted the sample but the refrigerator malfunctioned so the extract became warm and client was notified

R6 = Sample arrived in laboratory in good condition; however, the laboratory did not analyze it within EPA's established holding time limit.

CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers

IDL = Laboratory Instrument Detection Limit
MDL = Laboratory Method Detection Limit
RL = Reporting Limit (AFCEE RLs are listed in the AFCEE QAPP)
CLP CRDL = CLP Contract Required Detection Limit (these limits are listed in the EPA CLP Statement of Work or SOW)
CLP CRQL = CLP Contract Required Quantitation Limit (these limits are listed in the EPA CLP Statement of Work or SOW)

Any time a sample arrives at the laboratory improperly preserved (at improper pH or temperature) or after holding time has expired or prepared or analyzed after holding time, client must be notified in writing (i.e. case narrative).

AEN-Pensacola uses the most current promulgated methods contained in the reference manuals.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 04-Nov-97

"WetChem Quality Control Report"

Parameter:	CONDUCT'Y	PH
Batch Id:	CDW022	PHW218
Blank Result:	<1	N/A
Anal. Method:	120.1	150.1
Prep. Method:	N/A	N/A
Analysis Date:	04-NOV-97	24-OCT-97
Prep. Date:	04-NOV-97	24-OCT-97

Sample Duplication

Sample Dup:	710403-9	710403-1
Rept Limit:	<1	N/A
Sample Result:	2.2	8.04
Dup Result:	2.2	8.06
Sample RPD:	0G	0.02
Max RPD:	1	0.12
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	N/A	N/A
Rept Limit:	N/A	N/A
Sample Result:		
Spiked Result:		
Spike Added:		
% Recovery:		
% Rec Limits:		
Dry Weight%		

ICV

ICV Result:	10.05
True Result:	10.00
% Recovery:	101
% Rec Limits:	90-110

LCS

LCS Result:	1427	6.87
True Result:	1412	6.87
% Recovery:	101	100
% Rec Limits:	98-102	96-104

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = REPORTING LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	JL = JANET LECLEAR
MM = MIKE MCKENZIE	ED = ESTHER DANTIN	CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER	MG = MARY GUTIERREZ	AB = AMY BRADLEY

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TOW104
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Blank Id: B Date Analyzed: 04-NOV-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC CARBON	MG/L	ND	1
ANALYST	INITIALS	KL	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Reagent
Batch: TOW104
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

RS Date Analyzed: 03-NOV-97
RSD Date Analyzed: 03-NOV-97

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	7.0	104	7.0	104	0	30	71-127

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TOW104
Analysis Method: 415.1/EPA-600/4-79-020,March 1983.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 710494-11

MS Date Analyzed: 04-NOV-97
MSD Date Analyzed: 04-NOV-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOC	6.7	<1	7.0	104	7.0	104	0	30	51-135

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common Notation for Organic Reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
JG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMV = PART PER MILLION BY VOLUME
MG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY
JL = JANET LECLEAR

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	710403
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	710410
Project Name:	SPARTON
Project Location:	AGMP-4Q97
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 05-Nov-97

"QC Report"

Title: Water Blank
Batch: TXW059
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: B Date Analyzed: 30-OCT-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	PLD	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TXW060
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 31-OCT-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	PLD	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TXW060
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: B Date Analyzed: 04-NOV-97 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOTAL ORGANIC HALIDES	MG/L	ND	0.01
ANALYST	INITIALS	KL	

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TXW059
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: N/A
Sample Spiked: 710243-2+

MS Date Analyzed: 30-OCT-97
MSD Date Analyzed: 30-OCT-97

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES	0.050	0.028	0.082	108	0.074	92	16	20	75-125

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix
Batch: TXW060
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Dry Weight %: MS Date Analyzed: MS Date Extracted:
Sample Spiked: MSD Date Analyzed: MSD Date Extracted:

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
TOTAL ORGANIC HALIDES								20	75-125

Surrogates:

Comments:
NOT ENOUGH SAMPLE SUBMITTED TO ANALYZE A MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/L = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common Notation for Organic Reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG = MICROGRAMS
UG/L = PARTS PER BILLION
UG/KG = PARTS PER BILLION
MG/M3 = MILLIGRAM PER CUBIC METER
PPMV = PART PER MILLION BY VOLUME
MG/KG = PARTS PER MILLION
MG/L = PARTS PER MILLION
< = LESS THAN
ND = NOT DETECTED

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

AEN/GC/FID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

AEN/GC/FIX
AEN GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

AEN/GC/FPD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

AEN/GC/PID
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

AEN/GC/TCD
AEN GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

SW-846 METHOD 9020
PARTICULATE MATTER IS REMOVED BY ALLOWING PARTICULATES TO SETTLE IN THE SAMPLE CONTAINER AND DECANTING THE SUPERNATANT LIQUID. EXCESSIVE PARTICULATES ARE REMOVED BY FILTRATION OF THE SUPERNATANT LIQUID.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

SW = STEVE WILHITE
RW = ROBERT WOLFE
KS = KENDALL SMITH
KL = KERRY LEMONT
JO = JENNIFER O'NEAL
LP = LEVERNE PETERSON
PLD = PAULA DOUGHTY
JL = JANET LECLEAR

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 710403 Date Received: 10/24/97

1. Was there a Chain of Custody? (Yes) No♣
2. Was Chain of Custody properly filled out and relinquished? (Yes) No♣
3. Were samples received cold? (Criteria: 2° - 6°C: AEN-SOP 1055) (Yes) No♣ N/A
4. Were all samples properly labeled and identified? (Yes) No♣
5. Did samples require splitting? Yes♦ (No)
   Req By: PM Client Other♦
6. Were samples received in proper containers for analysis requested? (Yes) No♣
7. Were all sample containers received intact? (Yes) No♣
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+ (Yes) No♣ N/A
9. Is there sufficient volume for analysis requested? (Yes) No♣
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) (Yes) No♣
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes♣ No (N/A)
12. If sent, were matrix spike bottles returned? Yes No♣ (N/A)
13. Was Project Manager notified of problems? (initials:_____) Yes (No♣) N/A

Airbill Number(s): 313 9044781 Shipped By: FEDEX

Cooler Number(s): THICS Shipping Charges: N/A

Cooler Weight(s): 49# Cooler Temp(s) (°C): CCKJ 4°C

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: WS Date: 10/24/97 Logged By: WS Date: 10/24/97

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

♦ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

005785

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE 10-23 PAGE 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER: Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)		pH + Electrical conductivity	TOX	TOC	Gen Chemistry			Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GCMS (625/8270)	Volatile Organics GCMS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TCLP	Gross Alpha/Beta	005786			NUMBER OF CONTAINERS
710 410 -01	10-23	0916	AQ							X	X	X																					
-02		0912								X	X	X																					
-03		1043								X	X	X																					
-04		1025								X	X	X																					
-05		1120								X	X	X																					
-06		1235								X	X	X																					
-07		1250								X	X	X																					
-08		1235								X	X	X																					
-09		1500								X	X	X																					

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT NUMBER	710 410	TOTAL NUMBER OF CONTAINERS		SAN DIEGO	
PROJECT NAME	Storton technology	CHAIN OF CUSTODY SEALS		Paragon	
DC LEVEL (STD) IV		INTACT?		RENTON	
MATRIX (CORRECTED) MS MSD BLANK		RECEIVED GOOD COND/COLD		PENSACOLA	X
TAT (STANDARD) RUSH		LAB NUMBER		PORTLAND	
				PHOENIX	

DUE DATE: 11-5-97
RUSH SURCHARGE:
CLIENT DISCOUNT
SPECIAL CERTIFICATION REQUIRED ☐ YES ☐ NO

RELINQUISHED BY: 1.	RELINQUISHED BY: 2
Signature: Time: 1700	Signature Time
Printed Name: Brian Price Date: 10-23-97	Printed Name Date
Company: Albuquerque NM	Company
RECEIVED BY: 1.	RECEIVED BY: (LAB) 2.
Signature: Time:	Signature: William Time: 0816
Printed Name: Date:	Printed Name: William Snyder Date: 10/24/97
Company:	Company: AEN

Labs San Diego (619) 458 9141 • Phoenix (602) 496 4400 • Seattle (206) 228 8335 • Pensacola (904) 474-1001 • Portland (503) 684 0447 • Albuquerque (505) 344-3777

Rechecked by: WS

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

CHAIN OF CUSTODY

DATE: 10-23-97 PAGE: 1 OF 1

AEN SAMPLE NO.

PROJECT MANAGER: John M. Wakefield

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

BILL TO:
COMPANY: 4901 Rockaway Blvd.
ADDRESS: Rio Rancho, NM 87124

ANALYSIS REQUIRED

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	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)	pH + Elec. Conductivity	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:	TOC	TOX	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	
MW-19	10-23-97	0916	H_2O	01									X	X											X	X						
MW-20	"	0912	"	02									X	X											X	X						
MW-14	"	1043	"	03									X	X											X	X						
MW-9	"	1025	"	04									X	X											X	X						
MW-21	"	1120	"	05									X	X											X	X						
MW-22	"	1235	"	06									X	X											X	X						
PZ-2	"	1250	"	07									X	X											X	X						
MW-16	"	1235	"	08									X	X											X	X						
Trip Blank	10-15-97	1500	"	09									X	X											X	X						

005787

PROJECT INFORMATION

PROJ. NO.: 102397-A
PROJ. NAME: ACMP-4Q97
P.O. NO.:
SHIPPED VIA: Delivered

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 ☐
'C of C seals on cooler

From Field

RELINQUISHED BY:
Signature: Time: 1405
Printed Name: John Wakefield Date: 10-23-97
Company: S.T.I.

RELINQUISHED BY:
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY:
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY:
Signature: Time:
Printed Name: Date:
Company:

PLEASE FILL THIS FORM IN COMPLETELY.

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

CHAIN OF CUSTODY

DATE: 10-23-97 PAGE: 1 OF 1

AEN LAB NO.

PROJECT MANAGER: John M. Wakefield

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

BILL TO:
COMPANY: 4901 Rockaway Blvd.
ADDRESS: Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	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)	pH + Elec. Conductivity	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:	TOC	TOX	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	
MW-19	10-23-97	0916	H_2O									X	X											X	X							
MW-20	"	0912	"									X	X											X	X							
MW-14	"	1043	"									X	X											X	X							
MW-9	"	1025	"									X	X											X	X							
MW-21	"	1120	"									X	X											X	X							
MW-22	"	1235	"									X	X											X	X							
PZ-2	"	1250	"									X	X											X	X							
MW-16	"	1235	"									X	X											X	X							
Trip Blank	10-15-97	1500	"									X	X											X	X							

005788

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION

PROJ. NO.: 102397-A
PROJ. NAME: AGMP-4Q97
P.O. NO.:
SHIPPED VIA: Delivered

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 ☐

C of C seals on cooler

From Field

RELINQUISHED BY:
Signature: Time: 1405
Printed Name: John Wakefield Date: 10-23-97
Company: S.T.I.

RELINQUISHED BY:
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY:
Signature: Time:
Printed Name: Date:
Company: