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SPARTON

SPARTON TECHNOLOGY

EXPRESS MAIL

March 6, 1998

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

Re: Fourth Quarter 1997 AGMP Report

Dear Mr. Garcia:

Enclosed is Sparton Technology's Ground Water Report for the 1st Quarter 1998 as required by the Alternate Ground Water Monitoring Program. Included in the report is a copy of AEN lab report number 801360.

MW-15 was not sampled as the well was dry. Ground water samples for AGMP wells were collected by Sparton Technology, Inc. and Metric Corp. personnel on January 22, 1998.

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

Sincerely,
SPARTON TECHNOLOGY, INC.

R D Mico

Richard D. Mico
Vice President and General Manager

enclosures:

cc: (without enclosures)
Jan Appel
John Wakefield

007740

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

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 1998

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: 1/22/98 LABORATORY SAMPLE I.D. #: 801360-04

TIME SAMPLED: 1220 DATE RECEIVED BY LAB: 1/22/98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4972.91	1/22/98
Well Casing Volume	--------	gal.	1.17	1/22/98
Pump Rate	--------	gal./min.	0.06	1/22/98
Pump Period	72004	min.	63	1/22/98
Volume Evacuated	73675	gal.	3.5	1/22/98
Well Sampling Method	84077	--------	BLDRP	1/22/98
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.	7.9	N/A	1/23/98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	620	1	1/29/98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	760	50	1/27/98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	2	1	1/30/98	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

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: 3-6-98

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	31	0.2	N/A	1/27/98	EPA 8021
Trichloroethene	UG/L	410	6	N/A	1/28/98	EPA 8021
1,1,1 Trichloroethane	UG/L	<1.0	1.0	N/A	1/27/98	EPA 8021
Tetrachloroethene	UG/L	2.3	0.5	N/A	1/27/98	EPA 8021
Chloroform	UG/L	2.2	0.5	N/A	1/27/98	EPA 8021
1,1 Dichloroethane	UG/L	2.1	0.3	N/A	1/27/98	EPA 8021
Methylene Chloride	UG/L	200	40	N/A	1/28/98	EPA 8021

N/A = Not Applicable

007744

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. FIRST QUARTER 1998

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: 1/22/98 LABORATORY SAMPLE I.D. #: 801360-03

TIME SAMPLED: 1250 DATE RECEIVED BY LAB: 1/22/98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.22	1/22/98
Well Casing Volume	--------	gal.	0.20	1/22/98
Pump Rate	--------	gal./min.	0.01	1/22/98
Pump Period	72004	min.	63	1/22/98
Volume Evacuated	73675	gal.	0.63	1/22/98
Well Sampling Method	84077	--------	BLDRP	1/22/98
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	N/A	1/23/98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	670	1	1/29/98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	2000	250	1/28/98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1	1	1/30/98	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

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: 3-6-98

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	20	0.2	N/A	1/27/98	EPA 8021
Trichloroethene	UG/L	390	6	N/A	1/28/98	EPA 8021
1,1,1 Trichloroethane	UG/L	5.5	1.0	N/A	1/27/98	EPA 8021
Tetrachloroethene	UG/L	1.6	0.5	N/A	1/27/98	EPA 8021
Chloroform	UG/L	1.9	0.5	N/A	1/27/98	EPA 8021
1,1 Dichloroethane	UG/L	0.4	0.3	N/A	1/27/98	EPA 8021
1,1,2 Trichloroethane	UG/L	0.8	0.2	N/A	1/27/98	EPA 8021

N/A = Not Applicable

007748

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. FIRST QUARTER 1998

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.	DRY	1/22/98
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

GROUND WATER QUALITY PARAMETERS

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: 3-6-98

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = 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. FIRST QUARTER 1998

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: 1/22/98 LABORATORY SAMPLE I.D. #: 801360-06

TIME SAMPLED: 1435 DATE RECEIVED BY LAB: 1/22/98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.36	1/22/98
Well Casing Volume	--------	gal.	0.39	1/22/98
Pump Rate	--------	gal./min.	0.01	1/22/98
Pump Period	72004	min.	78	1/22/98
Volume Evacuated	73675	gal.	1.18	1/22/98
Well Sampling Method	84077	--------	BLDRP	1/22/98
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	1/23/98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	930	1	1/29/98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	9800	50	1/29/98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1	1	1/30/98	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

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: 3-6-98

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	73	0.2	N/A	1/28/98	EPA 8021
Trichloroethene	UG/L	4100	30	N/A	1/28/98	EPA 8021
1,1,1 Trichloroethane	UG/L	800	100	N/A	1/28/98	EPA 8021
Tetrachloroethene	UG/L	51	0.5	N/A	1/28/98	EPA 8021
Chloroform	UG/L	3.3	0.5	N/A	1/28/98	EPA 8021
1,1 Dichloroethane	UG/L	2.0	0.3	N/A	1/28/98	EPA 8021
Methylene Chloride	UG/L	3.5	2.0	N/A	1/28/98	EPA 8021
1,1,2 Trichloroethane	UG/L	6.9	0.2	N/A	1/28/98	EPA 8021
cis-1,2-Dichloroethene	UG/L	0.2	0.2	N/A	1/28/98	EPA 8021

N/A = 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. FIRST QUARTER 1998

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: 1/22/98 LABORATORY SAMPLE I.D. #: 801360-01

TIME SAMPLED: 1103 DATE RECEIVED BY LAB: 1/22/98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.66	1/22/98
Well Casing Volume	--------	gal.	24.05	1/22/98
Pump Rate	--------	gal./min.	0.69	1/22/98
Pump Period	72004	min.	108	1/22/98
Volume Evacuated	73675	gal.	74	1/22/98
Well Sampling Method	84077	--------	BLDRP	1/22/98
Sampler Material	--------	--------	TEFLN	N/A

WELL SAMPLING METHOD: BLDRP

INDICATOR PARAMETERS MW-19

PARAMETERS	STORET CODE	UNITS	VALUE	DETECTION LIMIT	DATE ANALYZED	METHOD USED
pH	00400	S.U.	8.2	N/A	1/23/98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	740	1	1/29/98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	90	10	1/27/98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	3	1	1/30/98	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

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: 3-6-98

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = 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	1.1	0.2	N/A	1/27/98	EPA 8021
Trichloroethene	UG/L	12	0.3	N/A	1/27/98	EPA 8021
1,1,1 Trichloroethane	UG/L	<1.0	1.0	N/A	1/27/98	EPA 8021

N/A = Not Applicable

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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. FIRST QUARTER 1998

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: 1/22/98 LABORATORY SAMPLE I.D. #: 801360-02

TIME SAMPLED: 1121 DATE RECEIVED BY LAB: 1/22/98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4971.32	1/22/98
Well Casing Volume	--------	gal.	42.13	1/22/98
Pump Rate	--------	gal./min.	1.15	1/22/98
Pump Period	72004	min.	112	1/22/98
Volume Evacuated	73675	gal.	129	1/22/98
Well Sampling Method	84077	--------	BLDRP	1/22/98
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.	8.4	N/A	1/23/98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	600	1	1/29/98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	10	10	1/27/98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1	1	1/30/98	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

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: 3-6-98

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = 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	N/A	1/27/98	EPA 8021
Trichloroethene	UG/L	<0.3	0.3	N/A	1/27/98	EPA 8021
1,1,1 Trichloroethane	UG/L	<1.0	1.0	N/A	1/27/98	EPA 8021

N/A = Not Applicable

007762

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. FIRST QUARTER 1998

EPA I.D. NUMBER: NMD 083212332

WELL NUMBER: MW-21 SAMPLE COLLECTION BY: JOHN M. WAKEFIELD

WELL DEPTH: 70.56 LABORATORY NAME: AEN

DATE SAMPLED: 1/22/98 LABORATORY SAMPLE I.D. #: 801360-05

TIME SAMPLED: 1335 DATE RECEIVED BY LAB: 1/22/98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4978.59	1/22/98
Well Casing Volume	--------	gal.	0.13	1/22/98
Pump Rate	--------	gal./min.	0.02	1/22/98
Pump Period	72004	min.	25	1/22/98
Volume Evacuated	73675	gal.	0.46	1/22/98
Well Sampling Method	84077	--------	BLDRP	1/22/98
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.	8.0	N/A	1/23/98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	620	1	1/29/98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	60	10	1/27/98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	1	1	1/30/98	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

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: 3-6-98

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = 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	N/A	1/27/98	EPA 8021
Trichloroethene	UG/L	66	0.3	N/A	1/27/98	EPA 8021
1,1,1 Trichloroethane	UG/L	18	1.0	N/A	1/27/98	EPA 8021
Tetrachloroethene	UG/L	0.8	0.3	N/A	1/27/98	EPA 8021

N/A = 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. FIRST QUARTER 1998

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: 1/22/98 LABORATORY SAMPLE I.D. #: 801360-07

TIME SAMPLED: 1425 DATE RECEIVED BY LAB: 1/22/98

PARAMETERS	STORET CODE	UNITS	VALUE	DATE ANALYZED
Elevation of G. Water	71993	ft.	4977.47	1/22/98
Well Casing Volume	--------	gal.	0.89	1/22/98
Pump Rate	--------	gal./min.	0.10	1/22/98
Pump Period	72004	min.	29	1/22/98
Volume Evacuated	73675	gal.	2.7	1/22/98
Well Sampling Method	84077	--------	BLDRP	1/22/98
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.	7.8	N/A	1/23/98	
	00400	S.U.				150.1
	00400	S.U.				
	00400	S.U.				
Specific Conductivity	00095	umhos/cm	690	1	1/29/98	
	00095	umhos/cm				120.1/2510B
	00095	umhos/cm				
	00095	umhos/cm				
T.O.X.	70354	ug/l	120	10	1/28/98	
	70354	ug/l				9020
	70354	ug/l				
	70354	ug/l				
T.O.C.	00680	mg/l	<1	1	1/30/98	
	00680	mg/l				415.1
	00680	mg/l				
	00680	mg/l				

N/A = NOT APPLICABLE

GROUND WATER QUALITY PARAMETERS

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: 3-6-98

SIGNATURE: John M. Wakefield

NAME (PRINTED: JOHN M. WAKEFIELD

N/A = 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	8.8	0.2	N/A	1/28/98	EPA 8021
Trichloroethene	UG/L	65	0.3	N/A	1/28/98	EPA 8021
1,1,1 Trichloroethane	UG/L	31	5	N/A	1/28/98	EPA 8021
Tetrachloroethene	UG/L	1.4	0.5	N/A	1/28/98	EPA 8021

N/A = Not Applicable

007770

American Environmental Network, Inc.

AEN I.D. 801360

February 5, 1998

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

Project Name AGMP-1Q98
Project Number 012298-A

Attention: JOHN M. WAKEFIELD

On 1/22/98 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.

Conductivity was analyzed per client request. EPA method 8021 purgable halocarbons was also analyzed per client request.

EPA method 8021 and pH were analyzed 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

007771

Enclosure

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

American Environmental Network, Inc.

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 801360
PROJECT #	: 012298-A	DATE RECEIVED	: 1/22/98
PROJECT NAME	: AGMP-1Q98	REPORT DATE	: 2/5/98

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-19	AQ	1/22/98
02	MW-20	AQ	1/22/98
03	MW-14	AQ	1/22/98
04	MW-9	AQ	1/22/98
05	MW-21	AQ	1/22/98
06	MW-16	AQ	1/22/98
07	MW-22	AQ	1/22/98
08	PZ-2	AQ	1/22/98
09	TRIP BLANK	AQ	1/12/98

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 801360
PROJECT #	: 012298-A	DATE RECEIVED	: 1/22/98
PROJECT NAME	: AGMP-1Q98		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	MW-19	AQUEOUS	1/22/98	1/23/98
02	MW-20	AQUEOUS	1/22/98	1/23/98
03	MW-14	AQUEOUS	1/22/98	1/23/98

PARAMETER	UNITS	01	02	03
PH (150.1)	UNITS	8.2	8.4	8.4

CHEMIST NOTES:
N/A

007773

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 801360
PROJECT #	: 012298-A	DATE RECEIVED	: 1/22/98
PROJECT NAME	: AGMP-1Q98		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
04	MW-9	AQUEOUS	1/22/98	1/23/98
05	MW-21	AQUEOUS	1/22/98	1/23/98
06	MW-16	AQUEOUS	1/22/98	1/23/98

PARAMETER	UNITS	04	05	06
PH (150.1)	UNITS	7.9	8.0	8.0

CHEMIST NOTES:
N/A

007774

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 801360
PROJECT #	: 012298-A	DATE RECEIVED	: 1/22/98
PROJECT NAME	: AGMP-1Q98		

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
07	MW-22	AQUEOUS	1/22/98	1/23/98
08	PZ-2	AQUEOUS	1/22/98	1/23/98
09	TRIP BLANK	AQUEOUS	1/12/98	1/23/98

PARAMETER	UNITS	07	08	09
PH (150.1)	UNITS	7.8	7.1	7.2

CHEMIST NOTES:
N/A

007775

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: SPARTON TECHNOLOGIES, INC.	AEN I.D.	: 801360
PROJECT #	: 012298-A	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: AGMP-1Q98		

PARAMETER	UNITS	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH	UNITS	801360-01	8.24	8.16	1

CHEMIST NOTES:
N/A

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

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

007776

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8021 HALO)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 801360
PROJECT # : 012298-A
PROJECT NAME : AGMP-1Q98

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-19	AQUEOUS	1/22/98	NA	1/27/98	1
02	MW-20	AQUEOUS	1/22/98	NA	1/27/98	1
03	MW-14	AQUEOUS	1/22/98	NA	1/27/98	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	**1.9**
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5
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	**0.4**
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**1.1**	< 0.2	**20**
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	0.5	UG/L	< 0.5	< 0.5	< 0.5
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
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	**1.6**
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	< 1.0	< 1.0	**5.5**
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	< 0.2	< 0.2	**0.8**
TRICHLOROETHENE	0.3	**UG/L**	**12**	< 0.3	**390 (D20)**
TRICHLOROFLUOROMETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			101	100	97
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D20) 20X DILUTION, ANALYZED 1-28-98.

007777

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8021 HALO)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 801360
PROJECT # : 012298-A
PROJECT NAME : AGMP-1Q98

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	MW-9	AQUEOUS	1/22/98	NA	1/27/98	1
05	MW-21	AQUEOUS	1/22/98	NA	1/27/98	1
06	MW-16	AQUEOUS	1/22/98	NA	1/28/98	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	**3.3**
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5
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	**2.0**
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	0.2	**UG/L**	**31**	**2.8**	**73**
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	0.5	UG/L	< 0.5	< 0.5	< 0.5
trans-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2
METHYLENE CHLORIDE	2.0	**UG/L**	**200 (D20)**	< 2.0	**3.5**
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE	0.5	**UG/L**	**2.3**	**0.8**	**51**
1,1,1-TRICHLOROETHANE	1.0	**UG/L**	< 1.0	**18**	**800 (D100)**
1,1,2-TRICHLOROETHANE	0.2	**UG/L**	< 0.2	< 0.2	**6.9**
TRICHLOROETHENE	0.3	**UG/L**	**410 (D20)**	**66**	**4100 (D100)**
TRICHLOROFLUOROMETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			100	95	104
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D20) 20X DILUTION, ANALYZED 1-28-98.
(D100) 100X DILUTION, ANALYZED 1-28-98.

007778

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 8021 HALO)
CLIENT : SPARTON TECHNOLOGIES, INC. AEN I.D.: 801360
PROJECT # : 012298-A
PROJECT NAME : AGMP-1Q98

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	MW-22	AQUEOUS	1/22/98	NA	1/28/98	1
08	PZ-2	AQUEOUS	1/22/98	NA	1/28/98	1
09	TRIP BLANK	AQUEOUS	1/12/98	NA	1/28/98	1

PARAMETER	DET. LIMIT	UNITS	07	08	09
BROMODICHLORMETHANE	0.2	**UG/L**	< 0.2	**0.9**	< 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	0.5	**UG/L**	< 0.5	**0.7**	< 0.5
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5
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	**8.8**	< 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	0.5	UG/L	< 0.5	< 0.5	< 0.5
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	**1.4**	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	1.0	UG/L	**31 (D5)**	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2
TRICHLOROETHENE	0.3	UG/L	**65**	< 0.3	< 0.3
TRICHLOROFLUOROMETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5
SURROGATE:					
BROMOCHLOROMETHANE (%)			99	99	100
SURROGATE LIMITS	(73 - 117)				

CHEMIST NOTES:
(D5) 5X DILUTION, ANALYZED 1-29-98.

007779

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
BLANK I.D.	: 012798B	AEN I.D.	: 801360
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 012298-A	DATE ANALYZED	: 1/27/98
PROJECT NAME	: AGMP-1Q98	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	<0.5
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5
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	<0.5
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	<0.5
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

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

CHEMIST NOTES:
N/A

007780

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
BLANK I.D.	: 012898	AEN I.D.	: 801360
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 012298-A	DATE ANALYZED	: 1/28/98
PROJECT NAME	: AGMP-1Q98	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	<0.5
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5
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	<0.5
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	<0.5
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		94
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

007781

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS
REAGENT BLANK

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
BLANK I.D.	: 012998	AEN I.D.	: 801360
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 012298-A	DATE ANALYZED	: 1/29/98
PROJECT NAME	: AGMP-1Q98	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	<0.5
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5
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	<0.5
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	<0.5
VINYL CHLORIDE	UG/L	<0.5

SURROGATE:

BROMOCHLOROMETHANE (%)		102
SURROGATE LIMITS	(73 - 117)	

CHEMIST NOTES:
N/A

007782

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY - QUALITY CONTROL
MSMSD

TEST	: PURGEABLE HALOCARBONS (EPA 8021 HALO)		
MSMSD #	: 801360-08	AEN I.D.	: 801360
CLIENT	: SPARTON TECHNOLOGIES, INC.	DATE EXTRACTED	: N/A
PROJECT #	: 012298-A	DATE ANALYZED	: 1/28/98
PROJECT NAME	: AGMP-1Q98	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	10.8	108	11.3	113	5	(87 - 124)	20
1,1-DICHLOROETHENE	<0.2	10.0	8.9	89	9.3	93	4	(44 - 99)	20
TRICHLOROETHENE	<0.3	10.0	11.4	114	12.4	124	8	(89 - 127)	20

CHEMIST NOTES:
N/A

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

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

007783

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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:	801360
Project Location:	AGMP-1Q98
Accession Number:	801576
Project Manager:	KIMBERKY D. MCNEILL
Sampled By:	N/S

American Environmental Network

11 East Olive Road • Pensacola • Florida • 32514 • Phone (904) 474-1001 • Fax (904) 478-2671

CASE NARRATIVE

LABORATORY NAME: American Environmental Network of Florida
PROJECT NAME: Sparton
PROJECT NUMBER: 801360

Client Sample ID	AEN Accession Number
801360-01	801576-001
801360-02	801576-002
801360-03	801576-003
801360-04	801576-004
801360-05	801576-005
801360-06	801576-006
801360-07	801576-007
801360-08	801576-008
801360-09	801576-009

The listed samples were received in good condition on January 24, 1998.

METHOD 9020

The samples listed above were received in a 250ml glass amber bottle. This method requires a one liter glass amber bottle preserved with sulfuric acid (H2SO4) in order to perform a duplicate and a matrix spike matrix spike duplicate.

Sample 801360-05 (AEN accession number 801576-005) had an insufficient sample amount to run a duplicate.

A matrix spike and matrix spike duplicate was not performed due to an insufficient amount of sample.

No other problems were associated with the analysis of this sample.

Linda Lofton

Linda Lofton
Project Manager

February 3, 1998

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	801576
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801360
Project Name:	SPARTON
Project Location:	AGMP-1Q98
Department:	WET CHEM

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 801360-01 MW-19			Lab ID: 001		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	740	1	CDW002	
Comments:					
Client ID: 801360-02 MW-20			Lab ID: 002		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	600	1	CDW002	
Comments:					
Client ID: 801360-03 MW-14			Lab ID: 003		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	670	1	CDW002	
Comments:					
Client ID: 801360-04 MW-9			Lab ID: 004		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	620	1	CDW002	
Comments:					
Client ID: 801360-05 MW-21			Lab ID: 005		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	620	1	CDW002	
Comments:					
Client ID: 801360-06 MW-16			Lab ID: 006		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	930	1	CDW002	
Comments:					
Client ID: 801360-07 MW-22			Lab ID: 007		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	690	1	CDW002	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 801360-08 PZ-2			Lab ID: 008		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	3	1	CDW002	
Comments:					
Client ID: 801360-09 TRIP BLANK			Lab ID: 009		
CONDUCTIVITY (120.1/2510 B)	UMH/CM	2	1	CDW002	
Comments:					

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: Group of Single Wetchem

Client ID:		Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
801360-01	MW-19	001	WATER	22-JAN-98 1103	24-JAN-98
801360-02	MW-20	002	WATER	22-JAN-98 1121	24-JAN-98
801360-03	MW-14	003	WATER	22-JAN-98 1250	24-JAN-98
801360-04	MW-9	004	WATER	22-JAN-98 1220	24-JAN-98
801360-05	MW-21	005	WATER	22-JAN-98 1335	24-JAN-98
801360-06	MW-16	006	WATER	22-JAN-98 1435	24-JAN-98
801360-07	MW-22	007	WATER	22-JAN-98 1425	24-JAN-98
801360-08	PZ-2	008	WATER	22-JAN-98 1411	24-JAN-98
801360-09	TRIP BLANK	009	WATER	12-JAN-98 1600	24-JAN-98

"Method Report Summary"

Accession Number: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: Group of Single Wetchem

Client Sample Id:		Parameter:	Unit:	Result:
801360-01	MW-19	CONDUCTIVITY (120.1/2510 B)	UMH/CM	740
801360-02	MW-20	CONDUCTIVITY (120.1/2510 B)	UMH/CM	600
801360-03	MW-14	CONDUCTIVITY (120.1/2510 B)	UMH/CM	670
801360-04	MW-9	CONDUCTIVITY (120.1/2510 B)	UMH/CM	620
801360-05	MW-21	CONDUCTIVITY (120.1/2510 B)	UMH/CM	620
801360-06	MW-16	CONDUCTIVITY (120.1/2510 B)	UMH/CM	930
801360-07	MW-22	CONDUCTIVITY (120.1/2510 B)	UMH/CM	690
801360-08	PZ-2	CONDUCTIVITY (120.1/2510 B)	UMH/CM	3
801360-09	TRIP BLANK	CONDUCTIVITY (120.1/2510 B)	UMH/CM	2

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL ORGANIC CARBON

Accession:	801576
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801360
Project Name:	SPARTON
Project Location:	AGMP-1Q98
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.
Matrix: WATER
QC Level: II

Lab Id: 001 Sample Date/Time: 22-JAN-98 1103
Client Sample Id: 801360-01 MW-19 Received Date: 24-JAN-98

Batch: TOW007 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 30-JAN-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC CARBON	MG/L	3	1	
ANALYST	INITIALS	LP		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.
Matrix: WATER
QC Level: II

Lab Id: 002 Sample Date/Time: 22-JAN-98 1121
Client Sample Id: 801360-02 MW-20 Received Date: 24-JAN-98

Batch: TOW007 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 30-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.
Matrix: WATER
QC Level: II

Lab Id: 003 Sample Date/Time: 22-JAN-98 1250
Client Sample Id: 801360-03 MW-14 Received Date: 24-JAN-98

Batch: TOW007 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 30-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.
Matrix: WATER
QC Level: II

Lab Id: 004 Sample Date/Time: 22-JAN-98 1220
Client Sample Id: 801360-04 MW-9 Received Date: 24-JAN-98

Batch: TOW007 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 30-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession:	801576
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801360
Project Name:	SPARTON
Project Location:	AGMP-1Q98
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-202, March 1983.
Extraction Method:	415.1/EPA-600/4-79-202, March 1983.
Matrix:	WATER
QC Level:	II

Lab Id:	005	Sample Date/Time:	22-JAN-98 1335
Client Sample Id:	801360-05 MW-21	Received Date:	24-JAN-98
Batch: TOW007		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	30-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.
Matrix: WATER
QC Level: II

Lab Id: 006 Sample Date/Time: 22-JAN-98 1435
Client Sample Id: 801360-06 MW-16 Received Date: 24-JAN-98

Batch: TOW007 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 30-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession:	801576
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801360
Project Name:	SPARTON
Project Location:	AGMP-1Q98
Test:	TOTAL ORGANIC CARBON
Analysis Method:	415.1/EPA-600/4-79-202, March 1983.
Extraction Method:	415.1/EPA-600/4-79-202, March 1983.
Matrix:	WATER
QC Level:	II

Lab Id:	007	Sample Date/Time:	22-JAN-98 1425
Client Sample Id:	801360-07 MW-22	Received Date:	24-JAN-98
Batch: TOW007		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	30-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.
Matrix: WATER
QC Level: II

Lab Id: 008
Client Sample Id: 801360-08 PZ-2
Sample Date/Time: 22-JAN-98 1411
Received Date: 24-JAN-98

Batch: TOW007
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 30-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC CARBON
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.
Matrix: WATER
QC Level: II

Lab Id: 009 Sample Date/Time: 12-JAN-98 1600
Client Sample Id: 801360-09 TRIP BLANK Received Date: 24-JAN-98

Batch: TOW007 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 30-JAN-98

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC CARBON

Client Sample Id:	Parameter:	Unit:	Result:
801360-01 MW-19	TOTAL ORGANIC CARBON	MG/L	3
801360-02 MW-20	TOTAL ORGANIC CARBON	MG/L	1
801360-03 MW-14	TOTAL ORGANIC CARBON	MG/L	1
801360-04 MW-9	TOTAL ORGANIC CARBON	MG/L	2
801360-05 MW-21	TOTAL ORGANIC CARBON	MG/L	1
801360-06 MW-16	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:	801576
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801360
Project Name:	SPARTON
Project Location:	AGMP-1Q98
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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: 22-JAN-98 1103
Client Sample Id: 801360-01 MW-19 Received Date: 24-JAN-98

Batch: TXW002 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 27-JAN-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.09	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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: 22-JAN-98 1121
Client Sample Id: 801360-02 MW-20 Received Date: 24-JAN-98

Batch: TXW002 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 27-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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: 801360-03 MW-14
Sample Date/Time: 22-JAN-98 1250
Received Date: 24-JAN-98

Batch: TXW002
Blank: B
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 28-JAN-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	2.0	0.25	
ANALYST	INITIALS	PLD		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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
Client Sample Id: 801360-04 MW-9
Sample Date/Time: 22-JAN-98 1220
Received Date: 24-JAN-98

Batch: TXW002
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 27-JAN-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.76	0.05	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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 Sample Date/Time: 22-JAN-98 1335
Client Sample Id: 801360-05 MW-21 Received Date: 24-JAN-98

Batch: TXW002 Extraction Date: N/A
Blank: A Dry Weight %: N/A Analysis Date: 27-JAN-98

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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: 22-JAN-98 1435
Client Sample Id: 801360-06 MW-16 Received Date: 24-JAN-98

Batch: TXW002 Extraction Date: N/A
Blank: C Dry Weight %: N/A Analysis Date: 29-JAN-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	9.8	0.5	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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: 22-JAN-98 1425
Client Sample Id: 801360-07 MW-22 Received Date: 24-JAN-98

Batch: TXW002 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 28-JAN-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL ORGANIC HALIDES	MG/L	0.12	0.01	
ANALYST	INITIALS	PLD		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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: 22-JAN-98 1411
Client Sample Id: 801360-08 PZ-2 Received Date: 24-JAN-98

Batch: TXW002 Extraction Date: N/A
Blank: B Dry Weight %: N/A Analysis Date: 28-JAN-98

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

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
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
Client Sample Id: 801360-09 TRIP BLANK
Sample Date/Time: 12-JAN-98 1600
Received Date: 24-JAN-98

Batch: TXW002
Blank: B
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 28-JAN-98

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: 801576
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801360
Project Name: SPARTON
Project Location: AGMP-1Q98
Test: TOTAL ORGANIC HALIDES IN WATER

Client Sample Id:	Parameter:	Unit:	Result:
801360-01 MW-19	TOTAL ORGANIC HALIDES	MG/L	0.09
801360-02 MW-20	TOTAL ORGANIC HALIDES	MG/L	0.01
801360-03 MW-14	TOTAL ORGANIC HALIDES	MG/L	2.0
801360-04 MW-9	TOTAL ORGANIC HALIDES	MG/L	0.76
801360-05 MW-21	TOTAL ORGANIC HALIDES	MG/L	0.06
801360-06 MW-16	TOTAL ORGANIC HALIDES	MG/L	9.8
801360-07 MW-22	TOTAL ORGANIC HALIDES	MG/L	0.12

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:	801576
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801360
Project Name:	SPARTON
Project Location:	AGMP-1Q98
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	CONDUCT'Y
Batch Id:	CDW002
Blank Result:	<1
Anal. Method:	120.1
Prep. Method:	N/A
Analysis Date:	29-JAN-98
Prep. Date:	29-JAN-98

Sample Duplication

Sample Dup:	801576-3
Rept Limit:	<1
Sample Result:	670
Dup Result:	668
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:	
True Result:	
% Recovery:	
% Rec Limits:	

LCS

LCS Result:	1422
True Result:	1412
% Recovery:	101
% Rec Limits:	98-102

----- 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
NK = NIKKI KILBURN		

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC CARBON

Accession:	801576
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801360
Project Name:	SPARTON
Project Location:	AGMP-1Q98
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TOW007
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.

Blank Id: A Date Analyzed: 30-JAN-98 Date Extracted: N/A

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

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water LCS
Batch: TOW007
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.

RS Date Analyzed: 30-JAN-98 RS Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	Rec Lmts
TOC	6.7	<1	6.7	100	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 Spike/Matrix Spike Duplicate
Batch: TOW007
Analysis Method: 415.1/EPA-600/4-79-202, March 1983.
Extraction Method: 415.1/EPA-600/4-79-202, March 1983.

Dry Weight %: N/A
Sample Spiked: 801476-1

MS Date Analyzed: 30-JAN-98
MSD Date Analyzed: 30-JAN-98

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	7.3	94	7.4	96	2	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
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.

RSK 175
SAMPLE PREPARATION AND CALCULATIONS FOR DISSOLVED GAS ANALYSIS IN WATER SAMPLES USING A GC HEADSPACE EQUILIBRATION TECHNIQUE, RSK SOP-175, ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY, USEPA, AUGUST 11, 1994.

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
RC = RON CALI

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL ORGANIC HALIDES IN WATER

Accession:	801576
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801360
Project Name:	SPARTON
Project Location:	AGMP-1Q98
Department:	SEMI-VOLATILE FUELS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: TXW002
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: A Date Analyzed: 27-JAN-98 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: TXW002
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: B Date Analyzed: 28-JAN-98 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: TXW002
Analysis Method: 9020/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: N/A

Blank Id: C Date Analyzed: 29-JAN-98 Date Extracted: N/A

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

Comments:

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.

RSK 175
SAMPLE PREPARATION AND CALCULATIONS FOR DISSOLVED GAS ANALYSIS IN WATER SAMPLES USING A GC HEADSPACE EQUILIBRATION TECHNIQUE, RSK SOP-175, ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY, USEPA, AUGUST 11, 1994.

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
RC = RON CALI

American Environmental Network of Florida

PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 801576 Date Received: 1/24/98

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): 340 0198 532 **Shipped By:** FEDEX

Cooler Number(s): Theirs **Shipping Charges:** N/A

Cooler Weight(s): 38# **Cooler Temp(s) (°C):** CCK3 4°C
CCK2 - 4° temp took on Mon. 1/26/98
(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)
Left over from Sat. 1/24/98

Out of Control Events and Inspection Comments:

(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: US **Date:** 1/24/98 **Logged By:** L. Kitt **Date:** 24-JAN-98

* *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).*

007827

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

Ken

DATE: 1-23-98 PAGE: 1 of ___

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

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

801576

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	Conductivity		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		007828		NUMBER OF CONTAINERS
801360-01	1-22-98	1103	AQ								X	X		X																			
-02		1121									X	X		X																			
-03		1250									X	X		X																			
-04		1220									X	X		X																			
-05		1335									X	X		X																			
-06		1435									X	X		X																			
-07		1425*									X	X		X																			
-08		1411									X	X		X																			
-09	1-22-98	1600									X	X		X																			

PROJECT INFORMATION	
PROJECT NUMBER:	801360
PROJECT NAME:	Sparton
QC LEVEL:	(STD) IV
QC REQUIRED:	MS MSD BLANK
TAT:	(STANDARD) RUSHI

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: 2-5-98
RUSH SURCHARGE:
CLIENT DISCOUNT:
SPECIAL CERTIFICATION REQUIRED: ☐YES ☐NO

* Time for ID-07 is supposed to be 1425 Not 1435 Bottles have correct time

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1700	Signature: Time:
Printed Name: Brian Price Date: 1-23-98	Printed Name: Date:
Albuquerque NM	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Linda Kitt Time: 0930	Signature: Time:
Printed Name: Linda Kitt Date: 1/24/98	Printed Name: Date:
Company: AEN/71	Company:

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

CHAIN OF CUSTODY

DATE: 1-22-98 PAGE: 1 OF 1

AEN LAB I.D. 801 300

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: Same
COMPANY:
ADDRESS: 4901 Rockaway Blvd.
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE I.D.	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)	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)		General Chemistry: pH + Conductivity		Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:		NUMBER OF CONTAINERS
MW-19	1-22-98	1103	H_2O	01							X		X					X					X									6
MW-20	"	1121	"	02							X		X					X					X									6
MW-14 * See below	"	1250	"	03							X		X					X					X									6
MW-9 ●	"	1220	"	04							X		X					X					X					007829				6
MW-21 *	"	1335	"	05							X		X					X					X									6
MW-16 *	"	1435	"	06							X		X					X					X									6
MW-22	"	~~1435~~ 1425 BP 1-23	"	07							X		X					X					X									
PZ-2	"	1411	"	08							X		X					X					X									
Trip Blank	1-12-98	1600	"	09							X		X					X					X								5	
* Trip Blank BP 1-22	1-22-	1540	AQ	10																												

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT INFORMATION

PROJ. NO.: A012298-A
PROJ. NAME: AGMP-1Q98
P.O. NO.:
SHIPPED VIA: Delivered

SAMPLE RECEIPT

NO. CONTAINERS: 58
CUSTODY SEALS: ON/NA
RECEIVED INTACT: Yes
BLUE ICE: Yes

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
*1 bottle for TOX and TOC
MW-14 *No trip Blank
MW-16 For 8010
MW-21
Direct from Field

RELINQUISHED BY: 1
Signature: [signature] Time: 1505
Printed Name: John Wakefield Date: 1-22-98
Company: S.T.I.

RECEIVED BY: 1
Signature: [signature] Time: 1505
Printed Name: Peter H. Molzen Date: 1-22-98
Company: Melvin Corp

RELINQUISHED BY: 2
Signature: [signature] Time: 1544
Printed Name: Peter H. Molzen Date: 1-22-98
Company: Melvin Corp.

RECEIVED BY (LAB): 2
Signature: [signature] Time: 1545
Printed Name: [illegible] Date: 1/22/98
Company: AMERICAN ENVIRONMENTAL NETWORK

DISTRIBUTION: White, Canary - AEN Pink - ORIGINATOR

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

CHAIN OF CUSTODY

DATE: 1-22-98 PAGE: 1 OF 1

AEN LAB ID:

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: Same
COMPANY:
ADDRESS: 4901 Rockaway Blvd.
Rio Rancho, NM 87124

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8020)	~~BTEX/MTBE/EDC & EDB (8020/8010 Short)~~	Chlorinated Hydrocarbons (601/8010) **	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)		General Chemistry:	pH Conductivity BP 1-23	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	
MW-19	1-22-98	1103	H_2O	01							X		X					X						X						
MW-20	"	1121	"	02							X		X					X						X						
MW-14 * See below	"	1250	"	03							X		X					X						X						
MW-9 ●	"	1220	"	04							X		X					X						X						
MW-21 *	"	1335	"	05							X		X					X						X						
MW-16 *	"	1435	"	06							X		X					X						X						
MW-22	"	~~1435~~ 1126 BP 1-23		07							X		X					X						X						
PZ-2	"	1411	"	08							X		X					X						X						
Trip Blank	1-12-98	1600	"	09							(X)		X					X						X						
* ~~Trip Blank~~ BP 1-23	1-22-	1540	AQ	10																										

PROJECT INFORMATION

PROJ. NO.: A012298-A
PROJ. NAME: AGMP-1Q98
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
*1 bottle for TOX and TOC
MW-14
MW-16
MW-21
Direct from Field
* ~~Not Trip Blank~~ For 8010
Trip Blank = -09
** should be 8010 only

RELINQUISHED BY:
Signature: Time: 1505
Printed Name: John Wakefield Date: 1-22-98
Company: S.T.I.

RECEIVED BY:
Signature: Time: 1505
Printed Name: Peter H. Metzner Date: 1-22-98
Company: Metrix Corp

RELINQUISHED BY:
Signature: Time: 1544
Printed Name: Peter H. Metzner Date: 1-22-98
Company: Metrix Corp.

RECEIVED BY:

PLEASE FILL THIS FORM IN COMPLETELY.

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

CHAIN OF CUSTODY

DATE: 1-22-98 PAGE: 1 OF 1

AEN LAB ID: [redacted]

SHADED AREAS ARE FOR LABORATORY 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: Same
COMPANY:
ADDRESS: 4901 Rockaway Blvd.
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)		General Chemistry: pH		Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	
MW-19	1-22-98	1103	H_2O	01							X		X					X					X							
MW-20	"	1121	"	02							X		X					X					X							
MW-14 * See below	"	1250	"	03							X		X					X					X							
MW-9 ●	"	1220	"	04							X		X					X					X							
MW-21 *	"	1335	"	05							X		X					X					X							
MW-16 *	"	1435	"	06							X		X					X					X							
MW-22	"	1435	"	07							X		X					X					X							
PZ-2	"	1411	"	08							X		X					X					X							
Trip Blank	1-12-98	1600	"	09							X		X					X					X							
* Trip Blank BP 1-22	1-22-	1540	AQ	10																										

PROJECT INFORMATION

PROJ. NO.: A012298-A
PROJ. NAME: AGMP-1Q98
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
*1 bottle for TOX and TOC
MW-14
MW-16
MW-21
Direct from Field
* Not trip Blank. For 8010 -05, 15

RELINQUISHED BY: 1
Signature: [signature] Time: 1505
Printed Name: John Wakefield Date: 1-22-98
Company: S.T.I.

RECEIVED BY:
Signature: [signature] Time: 1505
Printed Name: Peter H. Metzner Date: 1-22-98
Company: Metric Corp

RELINQUISHED BY: 2
Signature: [signature] Time: 1544
Printed Name: Peter H. Metzner Date: 1-22-98
Company: Metric Corp.

JMW 1-23-98