SPARTON

SPARTON TECHNOLOGY

File

RECEIVED
HAZARDOUS WASTE
PROGRAM

January 5, 1994

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Dear Mr. Alexander:

Enclosed is Sparton Technology's Inc. Assessment Quarterly Report for the Fourth Quarter 1993 as required by the Alternate Ground Water Monitoring Program. Included in the report are copies of the lab data sheets. Attached to the back of the report is a supplemental ATI report which corrects the units for Total Organic Halide erroneously reported as mg/l in the original ATI report No. 310316. Ground water samples were collected by Sparton Technology, Inc. at the Coors Road Facility on October 6, 1993.

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

Sincerely,
SPARTON TECHNOLOGY, INC.

Richard D. Mico
Vice President and General Manager

Enclosure:

cc: Mr. J. Appel (wo./encl.)
Mr. P. Chandler
Mr. G. Richardson
Mr. J. Wakefield

006169

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).]

**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. Fourth Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-9 SAMPLE COLLECTION BY Peter H. Metzner

WELL DEPTH* 78.35 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 10/06/93 LABORATORY SAMPLE I.D. # 310316-06

TIME SAMPLED 1335 DATE RECEIVED BY LAB. 10/06/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4976.22 | 10/06/93 |
| Well Casing Volume | ----- | gal. | 1.70 | 10/06/93 |
| Pump Rate | ----- | gal/min | 0.12 | 10/06/93 |
| Pump Period | 74004 | min. | 45 | 10/06/93 |
| Volume Evacuated | 73675 | gal. | 5.3 | 10/06/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 10/06/93 |
| Sampler Material | | --- | TEFLN | N/A |
| Well Sampling Method: | | | BLDRP | |

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



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INDICATOR PARAMETERS
MW-9
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.37 | N/A | 10/07/93 | |
| | 00400 | S.U. | | | | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 934 | 1 | 10/13/93 | |
| | 00095 | umhos/cm | | | | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 700 | 20 | 10/20/93 | |
| | 70354 | ug/1 | | | | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | 1.0 | 1.0 | 10/21/93 | |
| | 00680 | mg/1 | | | | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-9
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | N/A | | | |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | N/A | | | |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | N/A | | | |
| Sulfate | 00945 | mg/1 | N/A | | | |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 1/3/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

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

006173

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

Under assessment monitoring as per HWMP-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 | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 35 | 0.2 | N/A | 10/07/93 | 8010 |
| TRICHLOROETHENE | | UG/L | 680 | 10 | N/A | 10/08/93 | 8010 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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**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. Fourth Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-14 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 71.95 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 10/06/93 LABORATORY SAMPLE I.D. # 310316-05

TIME SAMPLED 1303 DATE RECEIVED BY LAB. 10/06/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4974.26 | 10/06/93 |
| Well Casing Volume | ----- | gal. | 0.70 | 10/06/93 |
| Pump Rate | ----- | gal/min | 0.22 | 10/06/93 |
| Pump Period | 74004 | min. | 13 | 10/06/93 |
| Volume Evacuated | 73675 | gal. | 2.4 | 10/06/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 10/06/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



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INDICATOR PARAMETERS
MW-14
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 8.10 | N/A | 10/07/93 | |
| | 00400 | S.U. | | | | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 746 | 1 | 10/13/93 | |
| | 00095 | umhos/cm | | | | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 530 | 20 | 10/20/93 | |
| | 70354 | ug/1 | | | | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 10/21/93 | |
| | 00680 | mg/1 | | | | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-14
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | N/A | | | |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | N/A | | | |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | N/A | | | |
| Sulfate | 00945 | mg/1 | N/A | | | |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 1/3/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

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

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

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 | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 31 | 0.2 | N/A | 10/07/93 | 8010 |
| TRICHLOROETHENE | | UG/L | 700 | 10 | N/A | 10/08/93 | 8010 |

N/A = NOT APPLICABLE

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## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

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**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. Fourth Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-15 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 73.17 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 10/06/93 LABORATORY SAMPLE I.D. # 310316-01

TIME SAMPLED 0907 DATE RECEIVED BY LAB. 10/06/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4976.18 | 10/06/93 |
| Well Casing Volume | ----- | gal. | 0.30 | 10/06/93 |
| Pump Rate | ----- | gal/min | 0.14 | 10/06/93 |
| Pump Period | 74004 | min. | 15 | 10/06/93 |
| Volume Evacuated | 73675 | gal. | 2.0 | 10/06/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 10/06/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



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INDICATOR PARAMETERS
MW-15
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.8 | N/A | 10/13/93 | |
| | 00400 | S.U. | | | | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 642 | 1 | 10/13/93 | |
| | 00095 | umhos/cm | | | | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 50 | 20 | 10/20/93 | |
| | 70354 | ug/1 | | | | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 10/21/93 | |
| | 00680 | mg/1 | | | | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-15
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | N/A | | | |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | N/A | | | |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | N/A | | | |
| Sulfate | 00945 | mg/1 | N/A | | | |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 1/3/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

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

006181

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

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 | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 2.7 | 0.2 | N/A | 10/07/93 | 8010 |
| TRICHLOROETHENE | | UG/L | 44 | 0.2 | N/A | 10/07/93 | 8010 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

## ASSESSMENT QUARTERLY REPORT AND ANNUAL SUMMARY

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**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. Fourth Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-16 SAMPLE COLLECTION BY Peter H. Metzner

WELL DEPTH* 71.52 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 10/06/93 LABORATORY SAMPLE I.D. # 310316-08

TIME SAMPLED 1450 DATE RECEIVED BY LAB. 10/06/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4980.86 | 10/06/93 |
| Well Casing Volume | ----- | gal. | 0.80 | 10/06/93 |
| Pump Rate | ----- | gal/min | 0.17 | 10/06/93 |
| Pump Period | 74004 | min. | 19 | 10/06/93 |
| Volume Evacuated | 73675 | gal. | 3.0 | 10/06/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 10/06/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



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INDICATOR PARAMETERS
MW-16
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.40 | N/A | 10/07/93 | |
| | 00400 | S.U. | | | | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 1660 | 1 | 10/13/93 | |
| | 00095 | umhos/cm | | | | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 13200 | 20 | 10/20/93 | |
| | 70354 | ug/1 | | | | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | 3 | 1.0 | 10/21/93 | |
| | 00680 | mg/1 | | | | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-16
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | N/A | | | |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | N/A | | | |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | N/A | | | |
| Sulfate | 00945 | mg/1 | N/A | | | |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 1/3/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

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

006185

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

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 | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 360 | 10 | N/A | 10/08/93 | 8010 |
| TRICHLOROETHENE | | UG/L | 13000 | 200 | N/A | 10/11/93 | 8010 |

N/A = NOT APPLICABLE

## INTERIM STATUS MONITORING WELL SAMPLING AND DATA SHEETS

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**P.O. BOX 26110**
**525 CAMINO DE LOS MARQUEZ**
**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Fourth Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-19 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 111.43 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 10/06/93 LABORATORY SAMPLE I.D. # 310316-02

TIME SAMPLED 1209 DATE RECEIVED BY LAB. 10/06/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4974.86 | 10/06/93 |
| Well Casing Volume | ----- | gal. | 26.14 | 10/06/93 |
| Pump Rate | ----- | gal/min | 0.94 | 10/06/93 |
| Pump Period | 74004 | min. | 93 | 10/06/93 |
| Volume Evacuated | 73675 | gal. | 80.5 | 10/06/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 10/06/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.

INDICATOR PARAMETERS
MW-19
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 6.96 | N/A | 10/07/93 | |
| | 00400 | S.U. | | | | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 687 | 1 | 10/13/93 | |
| | 00095 | umhos/cm | | | | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 40 | 20 | 10/20/93 | |
| | 70354 | ug/1 | | | | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 10/21/93 | |
| | 00680 | mg/1 | | | | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-19
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | N/A | | | |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | N/A | | | |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | N/A | | | |
| Sulfate | 00945 | mg/1 | N/A | | | |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 1/3/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

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

006189

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

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 | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 2.6 | 0.2 | N/A | 10/07/93 | 8010 |
| TRICHLOROETHENE | | UG/L | 45 | 0.2 | N/A | 10/07/93 | 8010 |

N/A = NOT APPLICABLE

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**SANTA FE, NEW MEXICO 87502**

FACILITY NAME SPARTON TECHNOLOGY, INC. Fourth Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-20 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 139.00 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 10/06/93 LABORATORY SAMPLE I.D. # 310316-03

TIME SAMPLED 1219 DATE RECEIVED BY LAB. 10/06/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4974.62 | 10/06/93 |
| Well Casing Volume | ----- | gal. | 44.43 | 10/06/93 |
| Pump Rate | ----- | gal/min | 1.14 | 10/06/93 |
| Pump Period | 74004 | min. | 121 | 10/06/93 |
| Volume Evacuated | 73675 | gal. | 135.5 | 10/06/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 10/06/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



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INDICATOR PARAMETERS
MW-20
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.34 | N/A | 10/07/93 | |
| | 00400 | S.U. | | | | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 618 | 1 | 10/13/93 | |
| | 00095 | umhos/cm | | | | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 30 | 20 | 10/20/93 | |
| | 70354 | ug/1 | | | | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 10/21/93 | |
| | 00680 | mg/1 | | | | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-20
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | N/A | | | |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | N/A | | | |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | N/A | | | |
| Sulfate | 00945 | mg/1 | N/A | | | |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 1/3/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

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

006193

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

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 | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 1.1 | 0.2 | N/A | 10/07/93 | 8010 |
| TRICHLOROETHENE | | UG/L | 23 | 0.2 | N/A | 10/07/93 | 8010 |

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).]

**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. Fourth Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-21 SAMPLE COLLECTION BY Peter H. Metzner

WELL DEPTH* 70.56 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 10/06/93 LABORATORY SAMPLE I.D. # 310316-04

TIME SAMPLED 1005 DATE RECEIVED BY LAB. 10/06/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4980.28 | 10/06/93 |
| Well Casing Volume | ----- | gal. | 0.40 | 10/06/93 |
| Pump Rate | ----- | gal/min | 0.08 | 10/06/93 |
| Pump Period | 74004 | min. | 20 | 10/06/93 |
| Volume Evacuated | 73675 | gal. | 1.25 | 10/06/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 10/06/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



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INDICATOR PARAMETERS
MW-21
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.47 | N/A | 10/07/93 | |
| | 00400 | S.U. | | | | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 673 | 1 | 10/13/93 | |
| | 00095 | umhos/cm | | | | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 570 | 20 | 10/20/93 | |
| | 70354 | ug/1 | | | | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 10/21/93 | |
| | 00680 | mg/1 | | | | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-21
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | N/A | | | |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | N/A | | | |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | N/A | | | |
| Sulfate | 00945 | mg/1 | N/A | | | |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 1/3/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

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

006197

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

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 | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 30 | 0.2 | N/A | 10/07/93 | 8010 |
| TRICHLOROETHENE | | UG/L | 480 | 4 | N/A | 10/08/93 | 8010 |

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).]

**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. Fourth Quarter 1993

EPA I.D. NUMBER NMD083212332

WELL NUMBER MW-22 SAMPLE COLLECTION BY John M. Wakefield

WELL DEPTH* 76.05 LABORATORY NAME Analytical Tech. Inc.

DATE SAMPLED 10/06/93 LABORATORY SAMPLE I.D. # 310316-07

TIME SAMPLED 1413 DATE RECEIVED BY LAB. 10/06/93

| PARAMETERS | STORET CODE | UNITS | VALUE | DATE ANALYZED |
|---|---|---|---|---|
| Elevation of G. Water | 71993 | ft. | 4980.31 | 10/06/93 |
| Well Casing Volume | ----- | gal. | 1.35 | 10/06/93 |
| Pump Rate | ----- | gal/min | 0.14 | 10/06/93 |
| Pump Period | 74004 | min. | 40 | 10/06/93 |
| Volume Evacuated | 73675 | gal. | 5.5 | 10/06/93 |
| Well Sampling Method | 84077 | --- | BRDLP | 10/06/93 |
| Sampler Material | | --- | TEFLN | N/A |

Well Sampling Method: BLDRP

* Well Depth = Total Depth Elevation subtracted from Surveyed Elevation on the Outer Protective Casing.



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INDICATOR PARAMETERS
MW-22
PAGE 2

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| pH | 00400 | S.U. | 7.59 | N/A | 10/07/93 | |
| | 00400 | S.U. | | | | 150.1 |
| | 00400 | S.U. | | | | |
| | 00400 | S.U. | | | | |
| Specific Conductivity | 00095 | umhos/cm | 716 | 1 | 10/13/93 | |
| | 00095 | umhos/cm | | | | 120.1 |
| | 00095 | umhos/cm | | | | |
| | 00095 | umhos/cm | | | | |
| T.O.X. | 70354 | ug/1 | 90 | 20 | 10/20/93 | |
| | 70354 | ug/1 | | | | 9020M |
| | 70354 | ug/1 | | | | |
| | 70354 | ug/1 | | | | |
| T.O.C. | 00680 | mg/1 | <1.0 | 1.0 | 10/21/93 | |
| | 00680 | mg/1 | | | | 415.2 |
| | 00680 | mg/1 | | | | |
| | 00680 | mg/1 | | | | |

GROUND WATER QUALITY PARAMETERS
MW-22
PAGE 3

| PARAMETERS | STORET CODE | UNITS | VALUE | DETECTION LIMIT | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|
| Chloride | 00940 | mg/1 | N/A | | | |
| Iron | 01045 | ug/1 | N/A | | | |
| Manganese | 71883 | ug/1 | N/A | | | |
| Phenols | 32730 | ug/1 | N/A | | | |
| Sodium | 00929 | mg/1 | N/A | | | |
| Sulfate | 00945 | mg/1 | N/A | | | |
| Turbidity | | NTU | N/A | | | |

DATE OF THIS REPORT: 1/3/93

SIGNATURE: John M. Wakefield

NAME (PRINTED): JOHN M. WAKEFIELD

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

MONITORING WELL APPENDIX VI OR IX DATA FOR FACILITIES IN ASSESSMENT

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 | STORET CODE | UNIT | VALUE | DETECTION LIMIT | DATE EXTRACTED | DATE ANALYZED | METHOD USED |
|---|---|---|---|---|---|---|---|
| 1,1,-DICHLOROETHENE | | UG/L | 22 | 0.2 | N/A | 10/08/93 | 8010 |
| TRICHLOROETHENE | | UG/L | 41 | 0.2 | N/A | 10/08/93 | 8010 |

N/A = NOT APPLICABLE

006201

MW-13, 15, 20, 21, 14, 9, 22, 16

Analytical Technologies, Inc.

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

ATI I.D. **310316**

October 26, 1993

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

Project Name/Number: CRFGW-MON. 4Q93SW-D1

Attention: John Wakefield

On **10/06/93**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Total Organic Halide and Total Organic Carbon analyses were performed by Analytical Technologies, Inc., 225 Commerce Drive, Fort Collins, CO.

All conductivity analyses and the pH analysis for sample MW-15 were performed by Analytical Technologies, Inc., 9830 S. 51st Street, Suite B-113, Phoenix, AZ.

All other analyses were performed by Analytical Technologies, Inc., Albuquerque, NM.

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

Letitia Krakowski

Adela M. Cantu
Senior Organic Chemist

Letitia Krakowski
Acting Laboratory Manager

LAK:jd

Enclosure

Analytical Technologies, Inc.

ACCESSION #: 310316

| PARAMETER | METHOD | DETECTION LIMITS | DATE ANALYZED | ANALYST |
|---|---|---|---|---|
| pH | 150.1 | NA | 10/13/93 | T. Kehler |
| pH | 150.1 | NA | 10/07/93 | C. Froechlich |
| TOC | 415.2 | <1.0 mg/L | 10/21/93 | S. Hall |
| TOX | 9020 M | <20 mg/L | 10/20/93 | S. Hall |
| Electrical Conductivity | 120.1 | NA | 10/13/93 | T. Kehler |

Reference(s): Methods for Chemical Analysis of Water and Wastes, March, 1983 EPA-600 4-79-020.

Analytical Technologies, Inc.

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME : CRFGW-MON

DATE RECEIVED : 10/06/9
REPORT DATE : 10/26/9

ATI I.D. : 310316

| ATI # | CLIENT DESCRIPTION | MATRIX | DATE COLLECTED |
|---|---|---|---|
| 01 | MW-15 | AQUEOUS | 10/06/93 |
| 02 | MW-19 | AQUEOUS | 10/06/93 |
| 03 | MW-20 | AQUEOUS | 10/06/93 |
| 04 | MW-21 | AQUEOUS | 10/06/93 |
| 05 | MW-14 | AQUEOUS | 10/06/93 |
| 06 | MW-9 | AQUEOUS | 10/06/93 |
| 07 | MW-22 | AQUEOUS | 10/06/93 |
| 08 | MW-16 | AQUEOUS | 10/06/93 |
| 09 | FIELD BLANK | AQUEOUS | 10/06/93 |
| 10 | TRIP BLANK | AQUEOUS | 09/15/93 |

----- TOTALS -----

| MATRIX | # SAMPLES |
|---|---|
| AQUEOUS | 10 |

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.

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

ATI I.D. : 310316

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME : CRFGW-MON

DATE RECEIVED : 10/06/9
REPORT DATE : 10/26/9

| PARAMETER | UNITS | 01 | 02 | 03 | 04 | 05 |
|---|---|---|---|---|---|---|
| CONDUCTIVITY, (UMHOS/CM) | | 642 | 687 | 618 | 673 | 746 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

ATI I.D. : 310316

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME : CRFGW-MON

DATE RECEIVED : 10/06/9
REPORT DATE : 10/26/9

| PARAMETER | UNITS | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|
| CONDUCTIVITY, (UMHOS/CM) | | 934 | 716 | 1660 | 1.22 | 0.939 |

Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME : CRFGW-MON ATI I.D. : 310316

| PARAMETER | UNITS | ATI I.D. | SAMPLE RESULT | DUP. RESULT | RPD | SPIKED SAMPLE | SPIKE CONC | % REC |
|---|---|---|---|---|---|---|---|---|
| CONDUCTIVITY | (UMHOS/CM) | 31031602 | 687 | 682 | 0.7 | NA | NA | NA |

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

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

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

ATI I.D. : 310316
DATE RECEIVED: 10/06/93
REPORT DATE : 10/26/93

| PARAMETER | UNITS | 01 | 02 | 03 | 04 |
|---|---|---|---|---|---|
| PH (150.1) | UNITS | 7.8 | 6.96 | 7.34 | 7.47 |
| TOTAL ORGANIC CARBON (415.2) | MG/L | <1.0 | <1.0 | <1.0 | <1.0 |
| TOTAL ORGANIC HALIDE (9020M) | MG/L | 50 | 40 | 30 | 570 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

ATI I.D. : 310316
DATE RECEIVED: 10/06/93
REPORT DATE : 10/26/93

| PARAMETER | UNITS | 05 | 06 | 07 | 08 |
|---|---|---|---|---|---|
| PH (150.1) | UNITS | 8.10 | 7.37 | 7.59 | 7.40 |
| TOTAL ORGANIC CARBON (415.2) | | <1.0 | 1 | <1.0 | 3 |
| TOTA ORGANIC HALIDE (9020M) | | 530 | 700 | 90 | 13200 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

ATI I.D. : 310316
DATE RECEIVED: 10/06/93
REPORT DATE : 10/26/93

| PARAMETER | UNITS | 09 | 10 |
|---|---|---|---|
| PH (150.1) | UNITS | 8.38 | 8.15 |
| TOTAL ORGANIC CARBON (415.2) | | <1.0 | <1.0 |
| TOTAL ORGANIC HALIDE (9020M) | | 30 | <20 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1 ATI I.D.: 310316
PROJECT NAME: CRFGW-MON.

| PARAMETER | UNITS | ATI I.D. | SAMPLE RESULT | DUP. RESULT | RPD | SPIKED SAMPLE | SPIKE CONC | % REC |
|---|---|---|---|---|---|---|---|---|
| PH | UNITS | 31031606 | 7.37 | 7.61 | 3 | NA | NA | NA |
| PH | UNITS | 31031901 | 10.25 | 10.25 | 0 | NA | NA | NA |
| PH | UNITS | 31055401 | 7.8 | 7.8 | 0 | NA | NA | NA |
| TOC | MG/L | 31031601 | <1.0 | <1.0 | NA | NA | NA | NA |
| TOC | MG/L | 31031608 | 3 | 3 | 0 | NA | NA | NA |
| TOX | MG/L | 930926501 | <20 | NA | NA | 200 | 200 | 100 |

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

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

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 601)
CLIENT : SPARTON TECH., INC. ATI I.D.: 310316
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

| SAMPLE I.D. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|---|---|---|---|---|---|---|
| 01 | MW-15 | AQUEOUS | 10/06/93 | NA | 10/07/93 | 1 |
| 02 | MW-19 | AQUEOUS | 10/06/93 | NA | 10/07/93 | 1 |
| 03 | MW-20 | AQUEOUS | 10/06/93 | NA | 10/07/93 | 1 |
| 04 | MW-21 | AQUEOUS | 10/06/93 | NA | 10/07/93 | 1 |

| PARAMETER | UNITS | 01 | 02 | 03 | 04 |
|---|---|---|---|---|---|
| 1,1-DICHLOROETHENE | UG/L | 2.7 | 2.6 | 1.1 | 30 |
| TRICHLOROETHENE | UG/L | 44 | 45 | 23 | 480 D |
| SURROGATES: | | | | | |
| BROMOCHLOROMETHANE (%) | | 94 | 85 | 95 | 99 |

D=DILUTED 20X, ANALYZED 10/08/93

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 601)
CLIENT : SPARTON TECH., INC. ATI I.D.: 310316
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

| SAMPLE I.D. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|---|---|---|---|---|---|---|
| 05 | MW-14 | AQUEOUS | 10/06/93 | NA | 10/07/93 | 1 |
| 06 | MW-9 | AQUEOUS | 10/06/93 | NA | 10/07/93 | 1 |
| 07 | MW-22 | AQUEOUS | 10/06/93 | NA | 10/08/93 | 1 |
| 08 | MW-16 | AQUEOUS | 10/06/93 | NA | 10/08/93 | 50 |

| PARAMETER | UNITS | 05 | 06 | 07 | 08 |
|---|---|---|---|---|---|
| 1,1-DICHLOROETHENE | UG/L | 31 | 35 | 22 | 360 |
| TRICHLOROETHENE | UG/L | 700 D | 680 D | 41 | 13000 D1 |
| SURROGATES: | | | | | |
| BROMOCHLOROMETHANE (%) | | 98 | 92 | 93 | 93 |

D=DILUTED 50X, ANALYZED 10/08/93
D1=DILUTED 1000X, ANALYZED 10/11/93

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS (EPA 601)
CLIENT : SPARTON TECH., INC. ATI I.D.: 310316
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

| SAMPLE I.D. # | CLIENT I.D. | MATRIX | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED | DIL. FACTOR |
|---|---|---|---|---|---|---|
| 09 | FIELD BLANK | AQUEOUS | 10/06/93 | NA | 10/07/93 | 1 |
| 10 | TRIP BLANK | AQUEOUS | 09/15/93 | NA | 10/07/93 | 1 |

| PARAMETER | UNITS | 09 | 10 |
|---|---|---|---|
| 1,1-DICHLOROETHENE | UG/L | <0.2 | <0.2 |
| TRICHLOROETHENE | UG/L | 1.9 | <0.2 |
| SURROGATES: | | | |
| BROMOCHLOROMETHANE (%) | | 94 | 110 |

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY - QUALITY CONTROL

## REAGENT BLANK

| | | | |
|---|---|---|---|
| TEST : | PURGEABLE HALOCARBONS (EPA 601) | ATI I.D. : | 310316 |
| BLANK I.D. : | 10/07/93 | DATE EXTRACTED: | NA |
| CLIENT : | SPARTON TECH., INC. | DATE ANALYZED : | 10/07/93 |
| PROJECT # : | 4Q93SW-D1 | DIL. FACTOR : | 1 |
| PROJECT NAME: | CRFGW-MON. | | |

| PARAMETER | UNITS | |
|---|---|---|
| 1,1-DICHLOROETHENE | UG/L | <0.2 |
| TRICHLOROETHENE | UG/L | <0.2 |
| SURROGATES: | | |
| BROMOCHLOROMETHANE (%) | | 98 |

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY - QUALITY CONTROL

## REAGENT BLANK

| | | | |
|---|---|---|---|
| TEST : | PURGEABLE HALOCARBONS (EPA 601) | ATI I.D. : | 310316 |
| BLANK I.D. : | 100793 | DATE EXTRACTED: | NA |
| CLIENT : | SPARTON TECH., INC. | DATE ANALYZED : | 10/07/93 |
| PROJECT # : | 4Q93SW-D1 | DIL. FACTOR : | 1 |
| PROJECT NAME: | CRFGW-MON. | | |

| PARAMETER | UNITS | |
|---|---|---|
| 1,1-DICHLOROETHENE | UG/L | <0.2 |
| TRICHLOROETHENE | UG/L | <0.2 |
| SURROGATES: | | |
| BROMOCHLOROMETHANE (%) | | 99 |

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY - QUALITY CONTROL

## REAGENT BLANK

| | | | |
|---|---|---|---|
| TEST : | PURGEABLE HALOCARBONS (EPA 601) | ATI I.D. : | 310316 |
| BLANK I.D. : | 100893 | DATE EXTRACTED: | NA |
| CLIENT : | SPARTON TECH., INC. | DATE ANALYZED : | 10/08/93 |
| PROJECT # : | 4Q93SW-D1 | DIL. FACTOR : | 1 |
| PROJECT NAME: | CRFGW-MON. | | |

| PARAMETER | UNITS | |
|---|---|---|
| 1,1-DICHLOROETHENE | UG/L | <0.2 |
| TRICHLOROETHENE | UG/L | <0.2 |
| SURROGATES: | | |
| BROMOCHLOROMETHANE (%) | | 102 |

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY - QUALITY CONTROL

## MSMSD

| | | | |
|---|---|---|---|
| TEST : | PURGEABLE HALOCARBONS (EPA 601) | ATI I.D. : | 310316 |
| MSMSD # : | 31032001 | DATE EXTRACTED: | NA |
| CLIENT : | SPARTON TECH., INC. | DATE ANALYZED : | 10/07/93 |
| | | SAMPLE MATRIX : | AQUEOUS |
| PROJECT # : | 4Q93SW-D1 | REF. I.D. : | 31032001 |
| PROJECT NAME: | CRFGW-MON. | UNITS : | UG/L |

| PARAMETERS | SAMPLE RESULT | CONC. SPIKE | SPIKED SAMPLE | % REC | DUP SPIKE | DUP % REC | RPD |
|---|---|---|---|---|---|---|---|
| CHLOROBENZENE | <0.5 | 10 | 11 | 110 | 9.5 | 95 | 15 |
| 1,1-DICHLOROETHENE | <0.2 | 10 | 9.6 | 96 | 9.8 | 98 | 2 |
| TRICHLOROETHENE | <0.5 | 10 | 10 | 100 | 9.7 | 97 | 3 |

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

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

Analytical Technologies, Inc.

# GAS CHROMATOGRAPHY - QUALITY CONTROL

## MSMSD

| | | | |
|---|---|---|---|
| TEST : | PURGEABLE HALOCARBONS (EPA 601) | ATI I.D. : | 310316 |
| MSMSD # : | 100893 | DATE EXTRACTED: | NA |
| CLIENT : | SPARTON TECH., INC. | DATE ANALYZED : | 10/08/93 |
| | | SAMPLE MATRIX : | AQUEOUS |
| PROJECT # : | 4Q93SW-D1 | REF. I.D. : | 100893 |
| PROJECT NAME: | CRFGW-MON. | UNITS : | UG/L |

| PARAMETERS | SAMPLE RESULT | CONC. SPIKE | SPIKED SAMPLE | % REC | DUP SPIKE | DUP % REC | RPD |
|---|---|---|---|---|---|---|---|
| CHLOROBENZENE | <0.5 | 10 | 11 | 110 | 9.5 | 95 | 15 |
| 1,1-DICHLOROETHENE | <0.2 | 10 | 9.4 | 94 | 10 | 100 | 6 |
| TRICHLOROETHENE | <0.2 | 10 | 10 | 100 | 9.7 | 97 | 3 |

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

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

AnalyticalTechnologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

# CHAIN OF CUSTODY

DATE: 10-6-93 PAGE 1 OF 1

ATI LAB I.D. 310316

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

PROJECT MANAGER: John M. Wakefield

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

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

006219

ANALYSIS REQUEST

| SAMPLE ID | DATE | TIME | MATRIX | LAB ID | Petroleum Hydrocarbons (418.1) | (MOD 8015) Gas/Diesel | Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020) | BTXE/MTBE (8020) | pH, Elec. Cond. | TOX, TOC | Chlorinated Hydrocarbons (601/8010) | Aromatic Hydrocarbons (602/8020) | SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg. | TCE, 11DCE | Pesticides/PCB (608/8080) | Herbicides (615/8150) | Base/Neutral/Acid Compounds GC/MS (625/8270) | Volatile Organics GC/MS (624/8240) | Polynuclear Aromatics (610/8310) | SDWA Primary Standards - Arizona | SDWA Secondary Standards - Arizona | SDWA Primary Standards - Federal | SDWA Secondary Standards - Federal | The 13 Priority Pollutant Metals | RCRA Metals by Total Digestion | RCRA Metals by TCLP (1311) | NUMBER OF CONTAINERS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-15 | 10-6-93 | 0907 | HCl ~~H2SO4~~ | 1 | | | | | X | X | X | | | | | | | | | | | | | | | | 7 |
| MW-19 | " | 1209 | " | 2 | | | | | X | X | X | | | | | | | | | | | | | | | | 7 |
| MW-20 | " | 1219 | " | 3 | | | | | X | X | X | | | | | | | | | | | | | | | | 7 |
| MW-21 | " | 1005 | " | 4 | | | | | X | X | X | | | | | | | | | | | | | | | | 7 |
| MW-14 | " | 1303 | " | 5 | | | | | X | X | X | | | | | | | | | | | | | | | | 7 |
| MW-9 | " | 1335 | " | 6 | | | | | X | X | X | | | | | | | | | | | | | | | | 7 |
| MW-22 | " | 1413 | " | 7 | | | | | X | X | X | | | | | | | | | | | | | | | | 7 |
| MW-16 | " | 1450 | " | 8 | | | | | X | X | X | | | | | | | | | | | | | | | | 7 |
| Field Blank (Trip Blank) | " | 1458 | " | 9/10 | | | | | X | X | X | | | | | | | | | | | | | | | | 7/10 |

| PROJECT INFORMATION | | SAMPLE RECEIPT | |
|---|---|---|---|
| PROJ. NO.: | 4Q93SW-D1 | NO. CONTAINERS | ~~70~~ 69 |
| PROJ. NAME: | CRFGW-Mon. | CUSTODY SEALS | Y / N / NA |
| P.O. NO.: | | RECEIVED INTACT | Y |
| SHIPPED VIA: | Delivered | RECEIVED COLD | Y |

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

Comments: Cot C Seals on Ice Chest
Need Detection Limits, Date of Analysis, and Method. (Trip Blank enclosed) 10 Samples

| SAMPLED & RELINQUISHED BY: 1. | RELINQUISHED BY: 2. | RELINQUISHED BY: 3. |
|---|---|---|
| Signature: John M. Wakefield Time: 1523 | Signature: Time: 1604 | Signature: Time: |
| Printed Name: John M. Wakefield Date: 10-6-93 | Printed Name: Peter H Melzner Date: 10-6-93 | Printed Name: Date: |
| Company: STI Phone: 892-5300 | Company: Metric Corp. | Company: |

| RECEIVED BY: 1. | RECEIVED BY: 2. | RECEIVED BY: (LAB) 3. |
|---|---|---|
| Signature: Time: 1523 | Signature: Time: | Signature: Time: 1604 |
| Printed Name: Peter H Melzner Date: 10-6-93 | Printed Name: Date: | Printed Name: Terri Dittro Date: 10/6/93 |
| Company: Metric Corp | Company: | Analytical Technologies, Inc. |

ATI 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 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

AnalyticalTechnologies,Inc. Albuquerque, NM

# Chain of Custody

DATE 10/6/93 PAGE 1 OF 2

NETWORK PROJECT MANAGER: BETH PROFFITT

COMPANY: **Analytical Technologies, Inc.**

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

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

| SAMPLE ID | DATE | TIME | MATRIX | LAB ID | TOX | TOC | ORGANIC LEAD | SULFIDE | SURFACTANTS (MBAS) | EC | 632/632 MOD | 619/619 MOD | 610/8310 | | | 8240 (TCLP 1311) ZHE | | Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020) | Volatile Organics GC/MS (624/8240) | | NACE | ASBESTOS | | BOD | TOTAL COLIFORM | FECAL COLIFORM | | GROSS ALPHA/BETA | RADIUM 226/228 | | AIR - C2, CO2, METHANE | AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020) | NUMBER OF CONTAINERS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 310316-10 | 10/6 | 1400 | Ag | 10 | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT INFORMATION | |
|---|---|
| PROJECT NUMBER: | 310316 |
| PROJECT NAME: | SPARTON |
| QC LEVEL: | STD. IV |
| QC REQUIRED: | MS MSD BLANK |
| TAT: | STANDARD RUSH! |

| SAMPLE RECEIPT | |
|---|---|
| TOTAL NUMBER OF CONTAINERS | 1 |
| CHAIN OF CUSTODY SEALS | Not |
| INTACT? | Y |
| RECEIVED GOOD COND./COLD | Y |
| LAB NUMBER | 310316 |

DUE DATE: 10/20/93

RUSH SURCHARGE:

CLIENT DISCOUNT: 10 %

Work LK693

| SAMPLES SENT TO: | |
|---|---|
| SAN DIEGO | |
| FT. COLLINS | |
| RENTON | |
| PENSACOLA | |
| | |
| PHOENIX | X |
| BARRINGER | |
| FIBERQUANT | |

| RELINQUISHED BY: 1. | RELINQUISHED BY: 2. |
|---|---|
| Signature: Time: 16:45 | Signature: Time: |
| Printed Name: Date 10/6/93 | Printed Name: Date |
| Analytical Technologies, Inc. Albuquerque | Company: |
| **RECEIVED BY: (LAB) 1.** | **RECEIVED BY: (LAB) 2.** |
| Signature: Time: | Signature: Time: 1000 |
| Printed Name: Date: | Printed Name: Linda Esteban Date: 10/7/93 |
| Company: | Company: ATI |

006220

Analytical Technologies, Inc. Albuquerque, NM

# Chain of Custody

DATE 10/6/93 PAGE 1 OF 2

NETWORK PROJECT MANAGER: BETH PROFFITT

COMPANY: Analytical Technologies, Inc.

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

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

| SAMPLE ID | DATE | TIME | MATRIX | LAB ID | TOX | TOC | ORGANIC LEAD | SULFIDE | SURFACTANTS (MBAS) | OIL & GREASE | 632/632 MOD | 619/619 MOD | 610/8310 | TCLP | 8240 (TCLP 1311) ZHE | | Diesel/Gasoline/BTXE/MTBE/ (MOD 8015/8020) | Volatile Organics GC/MS (624/8240) | | NACE | ASBESTOS | | BOD | TOTAL COLIFORM | FECAL COLIFORM | | GROSS ALPHA/BETA | RADIUM 226/228 | | AIR - O2, CO2, METHANE | AIR/Diesel/Gasoline/BTXE/ (MOD 8015/8020) | NUMBER OF CONTAINERS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 310316 -01 | 10-6 | 907 | Aq | 1 | | | | | | X | | | | X | X | | | | | | | | | | | | | | | | | | 1 |
| -02 | | 1209 | | 2 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| -03 | | 1219 | | 3 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| -04 | | 1005 | | 4 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| -05 | | 1303 | | 5 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| -06 | | 1335 | | 6 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| -07 | | 1413 | | 7 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| -08 | | 1450 | | 8 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| -09 | | 1458 | | 9 | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |

| PROJECT INFORMATION | |
|---|---|
| PROJECT NUMBER: | 310316 |
| PROJECT NAME: | SPARTON |
| QC LEVEL: | STD IV |
| QC REQUIRED: | MS MSD BLANK |
| TAT: | STANDARD RUSH! |

| SAMPLE RECEIPT | |
|---|---|
| TOTAL NUMBER OF CONTAINERS | 9 |
| CHAIN OF CUSTODY SEALS | NA |
| INTACT? | Y |
| RECEIVED GOOD COND./COLD | Y |
| LAB NUMBER | 310316 |

DUE DATE: 20 OCT 93 WO#LK693

RUSH SURCHARGE:

CLIENT DISCOUNT: 10 %

SAMPLES SENT TO:
SAN DIEGO
FT. COLLINS
RENTON
PENSACOLA
PHOENIX X
BARRINGER
FIBERQUANT

RELINQUISHED BY: 1.
Signature: [illegible] Time: 445
Printed Name: L Krakowski Date 10/6/93
Analytical Technologies, Inc. Albuquerque

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date
Company:

RECEIVED BY: (LAB) 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Time: 1000
Printed Name: Linda Edelman Date: 10/7/93
Company: ATI

I22900

4Q 1993 State wells.
Supplemental Report
Received 1/3/92

Analytical Technologies, Inc.

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

ATI I.D. **310316**

December 27, 1993

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

Project Name/Number: CRFGW-MON. 4Q93SW-D1

Attention: John Wakefield

On **10/06/93**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Total Organic Halide and Total Organic Carbon analyses were performed by Analytical Technologies, Inc., 225 Commerce Drive, Fort Collins, CO.

All conductivity analyses and the pH analysis for sample MW-15 were performed by Analytical Technologies, Inc., 9830 S. 51st Street, Suite B-113, Phoenix, AZ.

All other analyses were performed by Analytical Technologies, Inc., Albuquerque, NM.

This report is being reissued in part to correct the units for Total Organic Halide and Total Organic Carbon.

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

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure

Analytical Technologies, Inc.

ACCESSION #: 310316

| PARAMETER | METHOD | DETECTION LIMITS | DATE ANALYZED | ANALYST |
|---|---|---|---|---|
| pH | 150.1 | NA | 10/13/93 | T. Kehler |
| pH | 150.1 | NA | 10/07/93 | C. Froechlich |
| TOC | 415.2 | <1.0 mg/L | 10/21/93 | S. Hall |
| TOX | 9020 M | <20 ug/L | 10/20/93 | S. Hall |
| Electrical Conductivity | 120.1 | NA | 10/13/93 | T. Kehler |

Reference(s): Methods for Chemical Analysis of Water and Wastes, March, 1983 EPA-600 4-79-020.

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

ATI I.D. : 310316
DATE RECEIVED: 10/06/93
REPORT DATE : 10/26/93

| PARAMETER | UNITS | 01 | 02 | 03 | 04 |
|---|---|---|---|---|---|
| PH (150.1) | UNITS | 7.8 | 6.96 | 7.34 | 7.47 |
| TOTAL ORGANIC CARBON (415.2) | MG/L | <1.0 | <1.0 | <1.0 | <1.0 |
| TOTAL ORGANIC HALIDE (9020M) | UG/L | 50 | 40 | 30 | 570 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

ATI I.D. : 310316
DATE RECEIVED: 10/06/93
REPORT DATE : 10/26/93

| PARAMETER | UNITS | 05 | 06 | 07 | 08 |
|---|---|---|---|---|---|
| PH (150.1) | UNITS | 8.10 | 7.37 | 7.59 | 7.40 |
| TOTAL ORGANIC CARBON (415.2) | MG/L | <1.0 | 1 | <1.0 | 3 |
| TOTA ORGANIC HALIDE (9020M) | UG/L | 530 | 700 | 90 | 13200 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY RESULTS

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1
PROJECT NAME: CRFGW-MON.

ATI I.D. : 310316
DATE RECEIVED: 10/06/93
REPORT DATE : 10/26/93

| PARAMETER | UNITS | 09 | 10 |
|---|---|---|---|
| PH (150.1) | UNITS | 8.38 | 8.15 |
| TOTAL ORGANIC CARBON (415.2) | MG/L | <1.0 | <1.0 |
| TOTAL ORGANIC HALIDE (9020M) | UG/L | 30 | <20 |

Analytical Technologies, Inc.

# GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : SPARTON TECH., INC.
PROJECT # : 4Q93SW-D1 ATI I.D.: 310316
PROJECT NAME: CRFGW-MON.

| PARAMETER | UNITS | ATI I.D. | SAMPLE RESULT | DUP. RESULT | RPD | SPIKED SAMPLE | SPIKE CONC | % REC |
|---|---|---|---|---|---|---|---|---|
| PH | UNITS | 31031606 | 7.37 | 7.61 | 3 | NA | NA | NA |
| PH | UNITS | 31031901 | 10.25 | 10.25 | 0 | NA | NA | NA |
| PH | UNITS | 31055401 | 7.8 | 7.8 | 0 | NA | NA | NA |
| TOC | MG/L | 31031601 | <1.0 | <1.0 | NA | NA | NA | NA |
| TOC | MG/L | 31031608 | 3 | 3 | 0 | NA | NA | NA |
| TOX | UG/L | 930926501 | <20 | NA | NA | 200 | 200 | 100 |

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

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