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**Sparton Technology Inc.
Former Coors Road Plant
Groundwater Monitoring
Program Plan**

**Semi-Annual Progress Report
Third and Fourth Quarter 2012**

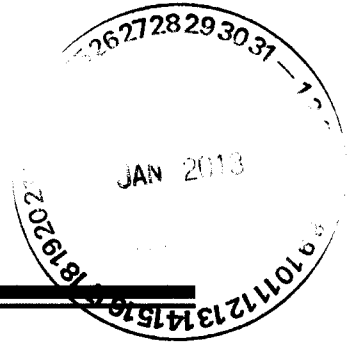


S.S. PAPADOPULOS & ASSOCIATES, INC.
Environmental & Water-Resource Consultants

January 24, 2013

7944 Wisconsin Avenue, Bethesda, Maryland 20814-3620 • (301) 718-8900

ENTERED



**Sparton Technology Inc.
Former Coors Road Plant
Groundwater Monitoring
Program Plan**

**Semi-Annual Progress Report
Third and Fourth Quarters 2012**

Prepared for:

**Sparton Technology, Inc.
Schaumburg, Illinois**

Prepared by:



**S.S. PAPADOPULOS & ASSOCIATES, INC.
Environmental & Water-Resource Consultants**

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S.S. PAPADOPULOS & ASSOCIATES, INC.
ENVIRONMENTAL & WATER-RESOURCE CONSULTANTS

January 24, 2013

Mr. Chuck Hendrickson, Project Coordinator
U. S. Environmental Protection Agency
Multimedia Planning and Permitting Division
Federal Facilities Section (6PD-F)
1445 Ross Avenue
Dallas, Texas 75202-2733

Mr. John Kieling, Program Manager
Hazardous Waste Bureau
2905 Rodeo Park Drive, Building 1
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Santa Fe, NM 87505

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P.O. Box 26110
Santa Fe, NM 87502-0110

Mr. Bart Faris
NMED - District 1
5500 San Antonio, NE
Albuquerque, NM 87109

Subject: Sparton Technology Inc. Former Coors Road Plant
Groundwater Monitoring Program Plan
Semi-Annual Progress Report - Third and Fourth Quarter 2012

Gentlemen:

On behalf of Sparton Technology, Inc., S.S. Papadopoulos & Associates, Inc. is pleased to submit the subject report that presents water-level and water-quality data collected from monitoring wells during the third and fourth quarters of 2012.

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of either the person or persons who manage the system and/or the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify, to the best of my knowledge and belief, that this document is consistent with the applicable requirements of the Consent Decree entered among the New Mexico Environment Department, the U.S. Environmental Protection Agency, Sparton Technology, Inc., and others in connection with Civil Action No. CIV 97 0206 LH/JHG, United States District Court for the District of New Mexico. I am aware that there are significant



U. S. Environmental Protection Agency
New Mexico Environmental Department
January 24, 2013
Page 2

penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions concerning the report, please contact us.

Sincerely,

S.S. PAPANOPULOS & ASSOCIATES, INC.

Stavros S. Papadopoulos, PhD, PE, NAE
Founder & Senior Principal

cc: Secretary, Sparton Technology, Inc., c/o Ernesto Martinez
Ernesto Martinez
Charles Coffman
James B. Harris
Anthony Hurst (2 copies)

REPORT



SPARTON TECHNOLOGY, INC. FORMER COORS ROAD PLANT GROUNDWATER MONITORING PROGRAM PLAN SEMI-ANNUAL PROGRESS REPORT THIRD AND FOURTH QUARTERS, 2012

Introduction

This Semi-Annual Progress Report presents the data collected during the Third and Fourth Quarter groundwater monitoring events conducted in 2012 under the Groundwater Monitoring Program Plan, hereafter “Monitoring Plan” (Attachment A to the Consent Decree entered on March 3, 2000¹) and under the requirements of the State of New Mexico Groundwater Discharge Permit DP-1184, hereafter “Discharge Permit.” The Third Quarter 2012 monitoring event was conducted from August 14, 2012 through August 23, 2012. The Fourth Quarter 2012 monitoring event was conducted from November 6, 2012 through December 4, 2012.

Groundwater Monitoring Activities

Water levels during the Third and Fourth Quarter of 2012 were measured in all existing wells listed in Table 3-1 of the Monitoring Plan, or their replacements or deepened versions, in well MW-79 which was installed in 2006 and well MW-80 which was installed in 2010, and in the infiltration gallery and infiltration pond monitoring wells. The Third Quarter water-level measurement round was conducted on August 14 & 15, 2012, and the Fourth Quarter round on November 6, 7 & 8, 2012. Measured depths to water and calculated water-level elevations for these two water-level measurement rounds are presented on Table 1 and 2. As shown on these tables, water levels could not be measured in wells that were dry, and the measured water level is questionable in some wells because it is below the reported bottom of the screen for that well.

The Third Quarter sampling event occurred between August 16 & 23, 2012 and the Fourth Quarter sampling event occurred between November 12, 2012 and December 4, 2012, except for wells MW-47R, MW-57D, and MW-65 which were sampled on November 7, 2012. Existing wells designated in Table 3-1 of the Monitoring Plan as requiring quarterly sampling, or their replacements or deepened versions, well MW-80, and the infiltration gallery and infiltration pond monitoring wells were sampled during both the Third and Fourth Quarter. Wells designated as requiring semi-annual sampling, including well MW-79, were sampled during the Fourth Quarter.

¹ Consent Decree. 2000. City of Albuquerque and the Board of County Commissioners of the County of Bernalillo v. Sparton Technology, Inc. U.S. District Court for the District of New Mexico. CIV 97 0206. March 3.



Samples were analyzed for volatile organic compounds (EPA Method 8260) and total chromium. In addition, as required by the Discharge Permit, samples from the infiltration gallery and infiltration pond monitoring wells were also analyzed for iron and manganese.

Analytical Results

The analytical results from these two sampling events are summarized on Tables 3 and 4. Historical data from all monitoring wells, including the results from these last two sampling events, are presented in APPENDIX A.

TABLES

TABLE 1
SPARTON TECHNOLOGY, INC.
GROUNDWATER MONITORING PROGRAM WATER LEVEL ELEVATIONS
THIRD QUARTER 2012 MONITORING, August 14-15, 2012

Well #	MPE	SR Feet	WLE
PZ-1	5147.36	196.50	4950.86
MW-7	5043.48	69.84	4973.64
MW-9	5042.46	73.09	4969.37
MW-12	5042.41	74.50	4967.91
MW-14R	5040.92	75.15	4965.77
MW-16	5047.50	66.60	4980.90
MW-17	5049.28	68.65	4980.63
MW-18	5043.38	76.33	4967.05
MW-19	5043.30	76.45	4966.85
MW-20	5043.20	77.01	4966.19
MW-21	5045.78	64.71	4981.07
MW-22	5044.73	69.18	4975.55
MW-23	5045.74	73.08	4972.66
MW-24	5048.70	67.98	4980.72
MW-25	5046.17	65.30	4980.87
MW-26	5045.37	75.75	4969.62
MW-27	5046.04	65.85	4980.19
MW-29	5041.88	72.62	4969.26
MW-30	5042.12	74.77	4967.35
MW-31	5041.38	75.48	4965.90
MW-32	5045.29	79.64	4965.65
MW-34	5034.33	64.58	4969.75
MW-37R	5093.15	130.86	4962.29
MW-38	5041.70	72.96	4968.74
MW-39	5042.30	74.53	4967.77
MW-40	5041.44	75.49	4965.95
MW-41	5044.56	78.55	4966.01
MW-42	5057.33	91.30	4966.03
MW-43	5057.74	91.96	4965.78
MW-44	5058.63	93.95	4964.68
MW-45	5089.50	126.85	4962.65
MW-46	5118.86	157.53	4961.33
MW-47R	5117.15	154.38	4962.77
MW-49	5041.44	75.46	4965.98

Well #	MPE	SR Feet	WLE
MW-51	5060.34	79.69	4980.65
MW-52R	5156.37	201.45	4954.92
MW-53D	5148.62	191.02	4957.60
MW-54	5097.69	135.91	4961.78
MW-55	5143.45	185.16	4958.29
MW-56	5141.45	181.60	4959.85
MW-57D	5103.62	143.47	4960.15
MW-58	5146.40	P&A	P&A
MW-59	5060.65	95.82	4964.83
MW-60	5134.40	174.78	4959.62
MW-61	5134.74	P&A	P&A
MW-62	5073.69	111.75	4961.94
MW-63	5063.10	94.32	4968.78
MW-64	5097.84	137.21	4960.63
MW-65	5156.45	201.40	4955.05
MW-66	5103.19	144.48	4958.71
MW-67	5142.21	190.18	4952.03
MW-68	5168.54	213.26	4955.28
MW-69	5167.79	212.61	4955.18
MW-70	5046.74	81.58	4965.16
MW-71R	5134.12	182.13	4951.99
MW-72	5056.25	90.12	4966.13
MW-73	5051.08	85.83	4965.25
MW-74	5094.80	136.51	4958.29
MW-75	5113.74	149.17	4964.57
MW-76	5108.32	141.86	4966.46
MW-77	5045.64	70.38	4975.26
MW-78	5052.91	80.55	4972.36
MW-79	5168.50	218.50	4950.00
MW-80	5203.31	250.71	4952.60
CW-1	5168.02	247.96	4920.06
CW-2	5045.61	94.31	4951.30
OB-1	5169.10	217.52	4951.58
OB-2	5165.22	212.28	4952.94
PZG-1	5090.90	23.22	5067.68

 Measured water level is at or below bottom of screen.

TABLE 2
SPARTON TECHNOLOGY, INC.
GROUNDWATER MONITORING PROGRAM WATER LEVEL ELEVATIONS
FOURTH QUARTER 2012 MONITORING, November 6-8, 2012

Well #	MPE	SR Feet	WLE
PZ-1	5147.36	196.50	4950.86
MW-7	5043.48	70.14	4973.34
MW-9	5042.46	73.18	4969.28
MW-12	5042.41	74.77	4967.64
MW-14R	5040.92	75.47	4965.45
MW-16	5047.50	66.64	4980.86
MW-17	5049.28	69.20	4980.08
MW-18	5043.38	76.82	4966.56
MW-19	5043.30	76.76	4966.54
MW-20	5043.20	77.11	4966.09
MW-21	5045.78	64.77	4981.01
MW-22	5044.73	69.92	4974.81
MW-23	5045.74	73.57	4972.17
MW-24	5048.70	68.20	4980.50
MW-25	5046.17	65.29	4980.88
MW-26	5045.37	74.26	4971.11
MW-27	5046.04	65.74	4980.30
MW-29	5041.88	72.86	4969.02
MW-30	5042.12	74.95	4967.17
MW-31	5041.38	75.79	4965.59
MW-32	5045.29	80.08	4965.21
MW-34	5034.33	64.33	4970.00
MW-37R	5093.15	131.06	4962.09
MW-38	5041.70	72.76	4968.94
MW-39	5042.30	74.86	4967.44
MW-40	5041.44	75.76	4965.68
MW-41	5044.56	78.95	4965.61
MW-42	5057.33	91.57	4965.76
MW-43	5057.74	92.23	4965.51
MW-44	5058.63	94.29	4964.34
MW-45	5089.50	127.14	4962.36
MW-46	5118.86	157.71	4961.15
MW-47R	5117.15	154.96	4962.19
MW-49	5041.44	75.65	4965.79

Well #	MPE	SR Feet	WLE
MW-51	5060.34	79.83	4980.51
MW-52R	5156.37	201.77	4954.60
MW-53D	5148.62	191.47	4957.15
MW-54	5097.69	136.32	4961.37
MW-55	5143.45	185.48	4957.97
MW-56	5141.45	182.07	4959.38
MW-57D	5103.62	143.56	4960.06
MW-58	5146.40	P&A	P&A
MW-59	5060.65	95.85	4964.80
MW-60	5134.40	175.10	4959.30
MW-61	5134.74	P&A	P&A
MW-62	5073.69	112.04	4961.65
MW-63	5063.10	94.77	4968.33
MW-64	5097.84	137.48	4960.36
MW-65	5156.45	201.76	4954.69
MW-66	5103.19	144.66	4958.53
MW-67	5142.21	189.97	4952.24
MW-68	5168.54	213.65	4954.89
MW-69	5167.79	212.49	4955.30
MW-70	5046.74	81.94	4964.80
MW-71R	5134.12	181.62	4952.50
MW-72	5056.25	90.45	4965.80
MW-73	5051.08	86.23	4964.85
MW-74	5094.80	136.82	4957.98
MW-75	5113.74	149.45	4964.29
MW-76	5108.32	142.75	4965.57
MW-77	5045.64	70.77	4974.87
MW-78	5052.91	81.23	4971.68
MW-79	5168.50	217.83	4950.67
MW-80	5203.31	250.70	4952.61
CW-1	5168.02	248.35	4919.67
CW-2	5045.61	96.83	4948.78
OB-1	5169.10	217.78	4951.32
OB-2	5165.22	212.56	4952.66
PZG-1	5090.90	22.99	5067.91

Measured water level is at or below bottom of screen.