



MONTHLY PROGRESS REPORT For month ending May 31st, 2016

CV-97-0206 (D.N.M) Albuquerque v. Sparton Technology, Inc.

06/08/16

Tasks Completed:

- A. Groundwater Monitoring Plan
 - The 2nd Quarter Sampling event was begun and completed during the first two weeks of May.
 - Continued to evaluate Monitoring Wells replacement needs.

- B. Public Involvement Plan
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- C. Deep Flow Zone System
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- D. Assessment of Aquifer Restoration
 - In preparation of the 2015 Annual Report, continued the evaluation of data collected during 2015.
 - Compiled and reviewed data from the 2nd Quarter 2016 water-level and water-quality monitoring.

- E. Offsite-Containment System
 - The system ran 95.70 % of the time and pumped 12,572,500 gallons (an average of 290.4 gpm). There was one outage for 31 hours from May 8th to May 9th due to alarm condition at the infiltration gallery.
 - Collected the monthly influent and effluent samples, and measured the water level in the infiltration gallery.
 - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-69659.

- F. Source Containment System
 - The system ran 99.90 % of the time and pumped 2,190,100 gallons (an average of 50.5 gpm). There were two outages
 - o For a broken pressure gauge on 5/5 for 21 minutes.
 - o For a chromium tank exchange on 5/16 for 23 minutes.
 - Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-73531.



- Collected the monthly influent and effluent samples from the treatment system.
- Operated the chromium removal unit during the entire month. Continued to route 70% (35 gpm) of the pumped water through the unit and blend it with the remainder of the pumped water to meet the New Mexico Water Quality Control Commission (NMWQCC) chromium standard of 0.050 mg/L in the effluent discharged into the ponds.
- Replaced the first tank from the chromium removal unit on May 16th.
- Replaced the pretreatment filter for the Chromium Exchange tanks on May 2nd, May 9th, and May 23rd.
- Collected chromium samples of (a) the influent to the building; (b) the effluent from the second tank; and (c) the effluent from the air-stripper on tank exchange day; May 16th.

G. Other

Tasks Planned:

H. Groundwater Monitoring Plan

- Continue to evaluate Monitoring Wells replacement needs.

I. Public Involvement Plan

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J. Deep Flow Zone System

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K. Assessment of Aquifer Restoration

- Completion of the CY2015 annual report and submission to the agencies.
- Work on addressing agencies' comments on RCRA Post-Closure Permit Renewal Application.

L. Offsite-Containment System

- The monthly influent and effluent samples will be collected, and the water level will be measured in the infiltration gallery piezometer.
- The monitoring system will continue to be repaired and upgraded.
- The required discharge report will be filed with the Office of the State Engineer.

M. Source Containment System

- The monthly influent and effluent samples will be collected.
- The required discharge report will be filed with the Office of the State Engineer; and
- Tank Exchange chromium sampling of (a) the influent; (b) the effluent from the second tank; and (c) the effluent from the air-stripper will continue.
- The first tank of the chromium removal unit will be replaced on June 6th and June 27th.
- The pretreatment filter will be replaced on June 6th and June 20th.



N. Other

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O. Problems Encountered or Anticipated:

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By:

Dillon Cottingham, EIT
Sparton

Charles Easterling, PE
Project Coordinator for Sparton.

Cc: By fax to Mr. Chuck Hendrickson (EPA: 214-665-7263)
Mr. Dave Cobrain (NMED: 505-476-6030)



Dillon Cottingham, EIT
6100 Seagull Street NE
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June 8th, 2016

Mr. Charles Palmer
Office of State Engineer
5550 San Antonio Dr. NE
Albuquerque, New Mexico
Dist1.meterreadings@state.nm.us

PE: Permit RG-69659, RG-73531T

Below is the meter report for the month of May 2016. A total of 12,572,500 gallons were treated by the air stripper at CW-1 and discharged via underground pipeline to the infiltration Gallery located in the Calabacillas Arroyo. A total of 2,190,100 gallons were treated by the air stripper at CW-2 and discharged into rapid infiltration pond 2 located northwest of the CW-2 Stripper building.

Date	CW-1		CW-2	
	Meter Reading	Discharge	Meter Reading	Discharge
12/30/2015	375,487,900		46,645,600	
02/01/2016	389,780,400	14,292,500	48,748,400	2,102,800
03/01/2016	402,374,700	12,594,300	50,882,800	2,134,400
04/01/2016	415,508,400	13,133,700	53,194,700	2,311,900
05/02/2016	428,995,900	13,487,500	55,432,800	2,238,100
06/01/2016	441,568,400	12,572,500	57,622,900	2,190,100
Total		66,080,500		10,977,300

Thank You,
Sincerely,

Dillon Cottingham, EIT

cc: Charles M. Easterling, PE

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 5th		YEAR: 2016																		
		AIR STRIPPERS									INFILTRATION			AQUA-MAG						
Date	Time	System Status: On/Off	Stripper Alarms	Blower Pressure (H ₂ O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Rate (sec/50gal)	Pump Flow Rate (gpm)	Discharge Rate (min/in)	Chromium Tank Flow Rate (gpm)	Pond #2 Accumulation	Pond #3 Accumulation	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock barrels	Tech Initials			
2nd	7:40	ON	NO	24.5	43.0	36.0	55,432,800	58.47	51.3	1/2 in	38.40	15,293,200	31,800,800	370	13	3	CD			
2nd	8:05	ON	NO	24.0	44.0	37.0	55,484,100	59.66	50.3	1/3 in	35.19	15,241,200		370	—	3	CD			
5th	15:32	ON	NO	23.6	41.0	35.0	55,673,400	59.58	50.3	1/3 in	36.73	15,528,400		345	—	3	AS			
9th	7:38	ON	NO	24.0	41.5	36.0	55,957,700	59.97	50.0	1/3 in	36.02	15,786,200		295	10.7	3	CD			
9th	8:17	ON	NO	24.0	40.5	34.0	55,939,700	57.48	52.2	1/3 in	37.82	15,787,600		295	—	3	CD			
12th	13:37	ON	NO	24.0	40.5	34.5	56,169,800	59.88	50.1	1/3 in	38.05	16,012,500		250	—	3	AS			
16th	7:50	ON	NO	24.0	42.0	34.0	56,443,500	60.87	49.3	1/3 in	37.69	16,271,500		200	13.6	3	CD			
16th	9:25	ON	NO	24.0	40.0	33.0	56,447,300	59.06	50.8	1/3 in	36.14	16,253,000		450	—	2 3/4	CD			
19th	8:12	ON	NO	24.0	41.0	34.0	56,660,000	101.19	49.0	1/3 in	36.62	16,470,800		420	10.0	2 3/4	CD			
23rd	7:29	ON	NO	24.0	38.0	29.0	56,953,300	59.12	50.7	1/3 in	36.62	16,777,100		570	12.5	2 3/4	CD			
23rd	7:40	ON	NO	24.0	38.0	31.0	56,954,300	57.75	51.9	1/3 in	36.85	16,778,100		370	—	2 3/4	CD			
26th	8:45	ON	NO	24.0	38.0	31.0	57,175,300	60.03	50.0	1/3 in	37.45	16,993,800		330	13.33	2 3/4	CD			
30th	8:18	ON	NO	24.0	37.0	28.0	57,469,800	59.00	50.8	1/3 in	37.82	17,281,300		240/450	10.0	2 1/2	AS			
6/1	10:20	ON	NO	24.0	36.0	27.0	57,672,900	59.81	50.1	1/3 in	37.57	17,430,600	31,800,800	430	10.0	2 1/2	CD			

Discharge = 3000 / (Sec/50gal) = gpm

(Gallons between readings * 24 Hours) / (Hours between readings) = Chemical Consumption = 10 gallons/day

(Gallons needed to fill tank * 4.1 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Chromium Tank Exchange		
Date	Time	Left/Right
5/16/16	9:00	Left

Aqua Mag Top Off		
Date	Time	Gallons of AM
5/16/16	8:00	10.25
5/30/16	8:23	6.56

ALARMS	
A-1	Blow/Well Pit/Aqua-Mag Sump
A-2	Air stripper Sump
A-3	Pond #6
A-4	Pump Off
A-5	Blower Pressure Low

Influent Filter	
Date	Time
5/2/16	8:00
5/9/16	8:15
5/23/16	7:36

Collected Samples		
Type	Date	Time
Monthly Metals	5/16/16	8:00
Chromium Exchange	5/16/16	8:00

1 inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 5 th		AIR STRIPPERS									AQUA-MAG			PZ-G H ₂ O Level (ft)	Tech Initials
YEAR: 2016		System Status: On/Off	Stripper Alarms	Blower Pressure (H ₂ O)	PRV Inlet Pressure (psi)	PRV Outlet Pressure (psi)	Water Meter Accumulation	Pump Rate (sec/100gal)	Pump Flow Rate (gpm)	Discharge Rate (min/in)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)		
2 nd	8:15	ON	NO	28.0	35.0	20.0	428,995,900	19.84	302.4	1/3 in	450	19.1	2	22.96	W
9 th	11:11	OFF	A-1 A-3	Showered OP, System Down, 431,538,700											
9 th	11:14	ON	NO	26.5	36.5	20.5	31,538,700	19.12	313.8	1/3 in	340	—	2		W
12 th	12:47	ON	NO	27.0	35.0	19.0	432,879,000	19.69	304.7	1/3 in	280	—	2		JCS
16 th	9:44	ON	NO	27.0	35.0	19.5	434,571,000	19.69	304.7	1/3 in	210	18.6	2		W
19 th	7:36	ON	NO	27.0	35.0	19.5	435,842,300	19.68	304.7	1/3 in	390	20.0	2 2/3		W
23 rd	7:54	ON	NO	26.9	35.0	19.5	437,595,700	19.72	304.3	1/3 in	310/450	20.0	1 1/3		JCS
26 th	8:30	ON	NO	27.0	35.0	19.5	438,915,000	19.78	303.3	1/3 in	390	20.0	1 1/3		W
30 th	7:55	ON	NO	26.5	35.0	19.0	440,578,000	19.69	304.7	1/3 in	300/450	22.5	1 1/4		JCS
6/1	9:50	ON	NO	27.0	35.0	19.0	441,565,400	19.63	305.7	1/3 in	410	20.0	1 1/4	22.99	W

Discharge = 6000 / (Sec/100gal) = gpm

(Gallons between readings * 24 Hours) / (Hours between readings) = Chemical Consumption = 20 gallons/day

(Gallons needed to fill tank * 7.6 gallon Aqua Mag) / (100 gallon solution) = Gallons of Aqua Mag needed

Aqua Mag Top Off		
Date	Time	Gallons of A-M
2 nd	8:23	11.0
16 th	9:50	18.2
23 rd	8:00	10.6
30 th	7:59	11.4

1 inch = 1.71875 gallons of Aqua Mag

Collected Samples		
Type	Date	Time
Monthly Metals	5/2/16	8:30

ALARMS	
A-1	High Sump
A-2	Air stripper High Sump
A-3	Gallery High
A-4	Pump Off
A-5	Blower Pressure Low

