

MONTHLY PROGRESS REPORT For month ending June 30th, 2016

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

07/08/16

Tasks Completed:

- A. Groundwater Monitoring Plan
 - Worked on addressing agencies' comments on RCRA Post-Closure Permit Renewal Application
- B. Public Involvement Plan
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- C. Deep Flow Zone System
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- D. Assessment of Aquifer Restoration
 - Completed CY2015 annual report and submitted it to the agencies on June 24th, 2016
- E. Offsite-Containment System
 - The system ran 83.88% of the time and pumped 11,175,500 gallons (an average of 258.5 gpm). There was one outage
 - o Due to an unknown reason from 6/8 to 6/13 for a total of 6,970 minutes.
 - 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 99.67% of the time and pumped 2,154,500 gallons (an average of 49.9 gpm). There were three outages
 - o For a chromium tank exchange on 6/6 for 14 minutes.
 - o Due to PNM power outage on 6/8 for 117 minutes.
 - o For a chromium tank exchange on 6/27 for 10 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 June 6th and 27th.
- Replaced the pretreatment filter for the Chromium Exchange tanks on June 6th and June 22nd.
- 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; June 6th and 27th.

G. Other

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Tasks Planned:

H. Groundwater Monitoring Plan

- Update RCRA Post-Closure Permit Renewal Application, addressing comments from the agencies, and resubmit for approval.

I. Public Involvement Plan

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J. Deep Flow Zone System

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K. Assessment of Aquifer Restoration

- Review and analyses of monitoring data in preparation of the CY2016 annual report.

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 July 18th.
- The pretreatment filter will be replaced on July 5th and July 18th.

N. Other

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O. Problems Encountered or Anticipated:

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By:

Dillon Cottingham, EIT
Engineering Technician for Sparton

Charles Easterling, PE
Project Coordinator for Sparton.

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

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 6 th		YEAR: 2016		AIR STRIPPERS							INFILTRATION			AQUA-MAG			Tech Initials
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	
2 nd	10:20	ON	NO	24.0	36.0	27.0	57,622,900	59.81	50.1	1/8 in	37.57	17,430,600	31,800,800	430	10.0	2 1/2	JD
6 th	7:20	ON	NO	24.0	37.0	27.0	57,979,700	58.81	51.0	1/8 in	37.57	17,779,600		365	13.0	2 1/2	JD
6 th	9:15	ON	NO	25.0	30.0	20.5	57,984,800	58.00	51.7	1/8 in	37.08	17,785,400		365	—	2 1/2	JD
8 th	7:12	ON	NO	24.0	34.0	26.5	58,141,600	58.06	51.7	1/8 in	37.69	17,937,700		340	—	2 1/2	JD
13 th	9:40	ON	NO	24.0	34.0	27.0	58,487,100	59.41	50.5	1/8 in	37.45	18,277,100		285	11.0	2 1/2	JD
15 th	7:50	ON	NO	24.0	36.0	28.5	58,635,500	60.00	50.0	1/8 in	36.50	18,419,900		265	10.0	2 1/2	JD
27 th	7:55	ON	NO	24.0	37.0	29.5	59,139,900	61.97	48.4	1/8 in	36.50	18,912,200		185	11.4	2 1/2	JD
27 th	7:43	ON	NO	24.0	40.0	33.0	59,487,900	61.90	48.5	1/8 in	37.35	19,252,300		130	11.0	2 1/2	JD
27 th	9:20	ON	NO	25.0	36.0	27.5	59,492,500	58.66	51.1	1/8 in	36.50	19,256,600		130	—	2 1/2	JD
1 st	9:10	ON	NO	24.0	38.5	28.5	59,777,400	59.94	50.1	1/8 in	36.50	19,534,900	31,800,800	90/150	10.0	2 1/2	JD

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

LCR

Chromium Tank Exchange		
Date	Time	Left/Right
6/6/16	8:53	RIGHT
6/29/16	9:00	LEFT

Aqua Mag Top Off		
Date	Time	Gallons of AM
7/1/16	9:25	14.76

ALARMS	
A-1	Blgd/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
6/6/16	8:53
6/22/16	7:45

Collected Samples		
Type	Date	Time
Monthly Metals	6/1/16	10:30
Chromium Exchange	6/6/16	8:00
Chromium	6/29/16	8:00

1 inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 6 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)		
1 st	9:50	ON	NO	27.0	35.0	19.0	441,568,400	19.63	305.7	1/3 in	410	20.0	1 1/4	22.99	CP
6 th	9:45	ON	NO	26.5	35.0	19.0	443,758,500	19.84	302.4	1/3 in	310/150	20.0	1 1/4		CP
13 th	8:50	System Down No Alarms													
13 th	8:40	ON	NO	26.5	36.0	19.0	444,682,100	19.59	306.3	1/3 in	420	—	1		CP
15 th	7:30	ON	NO	26.5	35.0	19.0	445,539,600	19.35	310.1	1/3 in	380	20.0	1		CP
22 nd	8:20	ON	NO	26.0	33.0	17.0	448,666,700	19.28	311.2	1/3 in	250/150	18.6	1		CP
27 th	9:53	ON	NO	26.5	31.0	16.0	450,935,800	19.31	310.7	1/3 in	365	17.0	2/3		CP
1 st	10:15	ON	NO	26.0	31.0	16.0	452,743,900	19.30	310.7	1/3 in	290	18.75	2/3	23.00	CP

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

Collected Samples		
Type	Date	Time
Monthly Metals	6/1/16	10:50

7/1 10:20

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

Aqua Mag Top Off		
Date	Time	Gallons of A-M
6/6/16	9:55	10.6
6/22	8:30	15.2

1 inch = 1.71875 gallons of Aqua Mag



Dillon Cottingham
6100 Seagull Street NE
Albuquerque, NM 87109

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 June 2016. A total of 11,175,500 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 2,154,800 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
07/01/2016	452,743,900	11,175,500	59,777,400	2,154,500
Total		77,256,000		13,131,800

Thank You,
Sincerely,

Dillon Cottingham, EIT

cc: Charles M. Easterling, PE