

MONTHLY PROGRESS REPORT
For month ending August 31st, 2016

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

09/10/16

Tasks Completed:

- A. Groundwater Monitoring Plan
 - Compiled and reviewed data from the 3rd Quarter 2016 water-level and water-quality monitoring.
 - 3rd quarter sampling event was successfully completed.

- B. Public Involvement Plan
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- C. Deep Flow Zone System
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- D. Assessment of Aquifer Restoration
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- E. Offsite-Containment System
 - The system ran 97.76% of the time and pumped 13,597,300 gallons (an average of 317.5 gpm). There was one outage:
 - o Due to PNM power from 8/7 to 8/8 for a total of 16 hours.
 - 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 98.23% of the time and pumped 2,120,000 gallons (an average of 48.0 gpm). There were three outages:
 - o Due to PNM power from 8/7-8/8 for 11 hours and 53 minutes.
 - o For a Tank Exchange on 8/8 for 16 minutes.
 - o For the Influent line flush on 8/17 for a total down time of 55 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 August 8th and 29th.
- Replaced the pretreatment filter for the Chromium Exchange tanks on August 2nd, 15th, and 29th.
- 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; August 8th and 29th.
- Purged the Influent line of iron and manganese growth to allow system to be operated at the required 50 gpm.

G. Other

- Ordered two pH/Temp/Cond meters for quarterly sampling. Meters have been checked and are properly calibrated and ready for the upcoming 4th quarter sampling event.
- Ordered a replacement box of well bailers, all were used in the 3Q2016 sampling event.

Tasks Planned:

H. Groundwater Monitoring Plan

- Continue to prepare equipment and consumables for the 4Q2016 sampling event.

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 September 19th.
- The pretreatment filter will be replaced on September 12th and September 26th.
- Will continue to evaluate and plan for a deep cleansing of the Influent line.

N. Other

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O. Problems Encountered or Anticipated:

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By:

Dillon Cottingham, EI
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)



Dillon Cottingham
 6100 Seagull Street NE
 Albuquerque, NM 87109

September 10th, 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 August 2016. A total of 13,597,300 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 2,120,000 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
08/01/2016	466,500,300	13,756,400	61,998,700	2,221,300
09/01/2016	480,097,600	13,597,300	64,118,700	2,120,000
Total		104,609,700		17,473,100

Thank You,
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 8 th		AIR STRIPPERS										AQUA-MAG			P2-G H2O Level (ft)	Tech Initials
YEAR: 2016		System Status: On/Off	Stripper Alarms	Blower Pressure (H2O)	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	3:20	ON	NO	28.5	30.0	15.0	466,500,300	19.19	312.9	1/5/2	315	18.75	6	22.95	JP	
8 th	11:55	ON	NO	25.0	31.5	16.0	469,294,000	18.88	317.8	1/3/2	200/450	16.4	10		JP	
15 th	9:30	ON	NO	26.0	30.0	16.0	472,415,300	19.00	315.8	1/6/2	330	17.1	10		JP	
22 nd	10:45	ON	NO	26.0	31.0	16.0	475,605,400	19.16	312.8	1/3/2	205	17.9	9 1/2		JP	
24 th	11:35	ON	NO	26.0	30.0	16.0	476,525,700	19.12	312.9	1/3/2	165/450	20.0	9 1/2		JP	
29 th	10:30	ON	NO	26.0	30.0	16.0	478,764,200	19.00	315.8	1/3/2	350	20.0	9 1/2		JP	
2 nd	9:00	ON	NO	26.0	30.0	16.0	480,097,600	19.10	312.9	1/3/2	285	16.25	9 1/2	23.07	C	

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	8/1	3:30

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

Aqua Mag Top Off		
Date	Time	Gallons of A-M
8 th	12:00	19
24 th	11:45	21.7

1 Inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 8 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	
1 st	5:50	ON	NO	24.0	32.0	23.0	61,998,700	61.38	48.9	1/8 in	36.38	21,765,700	31,800,800	125	11.25	4 1/5	JP
2 nd	9:20	ON	NO	24.0	33.0	23.0	62,054,300	59.28	50.6	1/8 in	35.55	21,960,200		115/450	10.0	4	JP
8 th	7:40	ON	NO	24.0	32.0	22.0	62,437,800	59.54	50.4	1/8 in	35.43	22,135,000		390	10.0	4	JP
8 th	11:00	ON	NO	24.5	32.0	24.0	62,446,800	59.37	50.5	1/8 in	36.50	22,143,800		390	—	4	JP
15 th	7:45	ON	NO	24.0	32.0	24.0	62,928,300	60.85	49.3	1/8 in	38.64	22,612,900		320	10.0	4	JP
15 th	9:05	ON	NO	24.0	30.0	22.0	62,930,100	61.53	48.8	1/8 in	35.19	22,614,500		320	—	4	JP
17 th	12:20	ON	NO	24.0	38.0	28.0	63,079,700	58.72	51.1	1/8 in	35.78	22,761,500		220	N/A	4	JP
18 th	15:10	ON	NO	24.0	38.0	30.0	63,158,100	60.01	50.0	1/8 in	35.67	22,859,100		210	10.0	4	JP
22 nd	7:30	ON	NO	24.0	36.0	26.0	63,418,500	60.02	50.0	1/8 in	36.62	23,076,700		170/480	10.0	4	JP
24 th	11:25	ON	NO	24.0	38.0	28.0	63,575,000	59.97	50.1	1/8 in	35.31	23,250,800		450	10.0	4	JP
29 th	7:40	ON	NO	24.0	36.0	25.5	63,905,000	59.13	50.7	1/8 in	35.06	23,576,000		405	9.0	4	JP
29 th	9:10	ON	NO	24.0	36.0	27.0	63,908,500	60.12		1/8 in	36.50	23,579,400		400	—	4	JP
														365		4	JP
9/1	8:00	ON	NO	24.0	39.5	25.5	64,118,700	59.90	50.2	1/8 in	37.08	23,786,400	31,800,800	365	8.75	4	JP

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
8/16/16	10:40	Left

Aqua Mag Top Off		
Date	Time	Gallons of AM
8/2	9:30	13.7
8/15	9:00	
8/22	8:00	11.5

ALARMS	
A-1	Bldg/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
8/2	9:15
8/15	9:00
8/29	7:30

Collected Samples		
Type	Date	Time
Monthly Metals	8/1/16	8:00
Chromium Exchange	8/16/16	8:00

→ 8/10/16 8:00

1 inch = 1.71875 gallons of Aqua Mag

