

MONTHLY PROGRESS REPORT
For month ending October 31st, 2016

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

11/10/16

Tasks Completed:

- A. Groundwater Monitoring Plan
 - In preparation of the 2016 Annual Report, continued the evaluation of data collected during 2016.

- 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 100.00% of the time and pumped 13,115,200 gallons (an average of 313.3 gpm). There was one outage:
 - o Due to the electrician troubleshooting on 10/20 for 2 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 98.53% of the time and pumped 2,202,900 gallons (an average of 52.5 gpm). There were four outages:
 - o For the electrician to change the relay on 10/6 for 3 hours and 50 minutes,
 - Incorrect Coil
 - o For the electrician to change the coil on 10/10 for 43 minutes,
 - Incorrect Coil
 - o For the electrician to change the coil on 10/20 for 5 hours and 20 minutes,
 - o For a Tank Exchange on 10/31 for 25 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 October 10th and October 31st.
- Replaced the pretreatment filter for the Chromium Exchange tanks on October 10th and October 24th.
- 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.

G. Other

- Ordered filters from Evoqua for the Chromium tank pretreatment filter.

Tasks Planned:

H. Groundwater Monitoring Plan

- Execute the 4Q2016 Water-Level and Water-Quality Monitoring Event
- Data for the 4Q2016 Water-Level and Water-Quality Monitoring will be compiled and reviewed.

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 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 November 21st.
- The pretreatment filter will be replaced on November 7th and November 21st.



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)



Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 10 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)		
3 rd	10:30	ON	NO	26.0	30.0	16.0	493,919,600	19.19	312.8	1/3 rd in	450	21.4	8 1/4	23.03	JD
10 th	10:00	ON	NO	26.0	31.0	16.5	497,073,700	19.19	312.8	1/3 rd in	300	21.4	8 1/8		JD
17 th	9:15	ON	NO	26.0	30.0	16.5	220,600	19.07	314.6	1/3 rd in	165/450	19.3	8 1/8		JD
24 th	13:45	ON	NO	26.0	31.0	16.5	3,455,200	19.06	314.6	1/3 rd in	300	21.4	8 1/8		JD
31 st	10:05	ON	NO	25.0	31.0	16.5	6,558,200	19.22	312.7	1/3 rd in	155/400	20.7	7 2/3		JD
1 st	11:15	ON	NO	26.0	30.0	16.0	7,034,800	19.00	314.9	1/3 rd in	430	20.0	7 1/3	22.97	JD

Discharge = 6000 / (Sec / 100 gal) = 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
10/3	10:45	11.4
10/17	9:15	21.7
10/31	10:10	22.4

1 inch = 1.71875 gallons of Aqua Mag

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

Collected Samples		
Type	Date	Time
Monthly Metals	10/3	11:00

Sparton Technology Inc, CW-1 Operation and Maintenance Log

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 10 th		YEAR: 2016																
Date	Time	AIR STRIPPERS									INFILTRATION			AQUA-MAG			Tech Initials	
		System Status On/Off	Stripper Alarms	Blower Pressure (H2O)	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		
3 rd	9:00	ON	NO	24.5	44.0	34.0	66,786,200	59.28	50.6	1/8"/min	39.57	25,920,700	31,800,800	395	7.0	3 3/4	JD	
6 th	10:57	ON	NO	24.5	42.0	32.0	66,808,100	59.32	52.3	1/8"/min	39.47	26,158,800		360	11.66	3 3/4	JD	
10 th	7:10	ON	NO	24.5	41.0	32.5	66,802,000	56.09	53.5	1/8"/min	39.47	26,423,900		310	12.5	3 3/4	JD	
10 th	9:30	ON	NO	26.0	41.0	31.0	66,808,900	56.66	53.9	1/8"/min	38.96	26,484,400		309	/	3 3/4	JD	
10 th	11:25	ON	NO	25.0	40.0	31.0	66,813,400	57.25	52.4	1/8"/min	39.00	26,439,100		308	/	3 3/4	JD	
12 th	15:00	ON	NO	24.0	40.0	31.0	66,829,600	55.50	54.05	1/8"/min	39.47	26,595,600		285	12.5	3 3/4	JD	
19 th	9:00	ON	NO	24.5	41.0	31.0	67,342,000	55.06	54.5	1/8"/min	39.12	26,958,500		230	11.0	3 3/4	JD	
19 th	9:20	ON	NO	25.5	41.0	31.0	67,495,800	56.21	53.4	1/8"/min	39.12	27,109,800		210	10.0	3 3/4	JD	
20 th	1:35	ON	NO	24.5	42.0	33.5	67,569,200	56.06	53.5	1/8"/min	38.05	27,181,800		200	10.0	3 3/4	JD	
24 th	8:30	ON	NO	25.0	42.0	34.0	67,856,700	56.35	53.4	1/8"/min	38.40	27,464,600		155	11.25	3 3/4	JD	
24 th	9:30	ON	NO	25.0	38.0	29.0	67,860,500	55.29	54.3	1/8"/min	40.10	27,468,100		450	/	3 1/2	JD	
27 th	9:10	ON	NO	24.5	38.0	29.0	68,093,200	56.09	53.5	1/8"/min	40.32	27,616,800		420	10.0	3 1/2	JD	
31 st	7:30	ON	NO	25.0	38.0	29.0	68,399,800	56.41	53.2	1/8"/min	39.96	27,998,100		370	12.5	3 1/2	JD	
1 st	12:00	ON	NO	25.0	38.0	28.5	68,489,100	56.44	53.2	1/8"/min	39.96	28,055,700		360	10.0	3 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

Chromium Tank Exchange		
Date	Time	Left/Right
10/10/16	9:00	Right
10/31/16	9:20	Left

Aqua Mag Top Off		
Date	Time	Gallons of AM
10/24	9:15	12,095

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
10/10/16	8:55
10/24/16	9:00

Collected Samples		
Type	Date	Time
Monthly Metals	2 nd	1:10
Chromium Exchange	10 th	4:10

1 inch = 1.71875 gallons of Aqua Mag



Dillon Cottingham
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November 10th, 2016

Mr. Charles Palmer
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PE: Permit RG-69659, RG-73531T

Below is the meter report for the month of October 2016. A total of 13,115,200 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 2,202,900 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
10/03/2016	493,919,600	13,822,000	66,286,200	2,167,500
11/01/2016	507,034,800	13,115,200	68,489,100	2,202,900
Total		131,546,900		21,843,500

Thank You,
Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE