

MONTHLY PROGRESS REPORT
For month ending February 28th, 2017

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

03/10/2017

Tasks Completed:

- A. Groundwater Monitoring Plan
 - 1Q2017 GWMP was completed on February 16th. In addition to the samples that are normally collected from the monitoring wells during the 1st quarter, samples were also collected for 1,4 – dioxane analyses.

- B. Public Involvement Plan
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- C. Deep Flow Zone System
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- D. Assessment of Aquifer Restoration
 - Stated review and analysis of the monitoring data in preparation of the CY2016 Annual Report.

- E. Offsite-Containment System
 - The system ran 93.19% of the time and pumped 11,376,475 gallons (an average of 282.2 gpm). There were 6 outages:
 - o On 2/2 for 8 hours and 46 minutes due to PNM power failure;
 - o On 2/8 for 27 hours and 10 minutes due to installation of the new monitoring system;
 - o On 2/10 for 78 minutes due to installation of the new monitoring system;
 - o On 2/13 for 46 minutes due to new meters being installed;
 - o On 2/15 for 7 hours and 38 minutes due to installation of the new monitoring system;
 - o On 2/23 for 8 minutes due to D.R.B. Electric checking electrical connections in the main cabinet.
 - 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.



- The new monitoring system was implemented and completed during the month of February. The system is 100% operational and remote viewable.
 - o The IP address for the system is 63.227.108.27
 - o The User Name for the system is spartoncw1 (all lower case)
 - o The Password for the system is 63.227.108.27
- F. Source Containment System
- The system ran 91.36% of the time and pumped 1,812,674 gallons (an average of 45.0 gpm). There were eight outages:
 - o On 2/2 for 7 hours and 49 minutes due to PNM power failure;
 - o On 2/7 for 28 hours and 19 minutes due to installation of the new monitoring system;
 - o On 2/10 for 6 hours and 23 minutes due to installation of the new monitoring system;
 - o On 2/13 for 7 hours and 15 minutes due to installation of the new monitoring system, a tank exchange, filter change, and installation of the new meters;
 - o On 2/14 for 4 hours and 33 minutes due to installation of the new monitoring system;
 - o On 2/21 for 1 hour and 40 minutes due to Century Link troubleshooting the existing CAT5 communication lines;
 - o On 2/22 for 2 hours and 5 minutes due to DRB doing final electrical checks.
- 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 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 chromium standard of 0.050 mg/L in the effluent discharged into the ponds.
- Replaced the first tank of the chromium removal unit on February 13th.
- Replaced the pretreatment filter for the Chromium Exchange Tanks on February 7th.
- 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.
- The monitoring system is up and operational with the exception of the Chromium System Flow meter and the internet connection provided by Century Link.
- Century link internet service is not active at CW-2 currently.
 - o Century Link was contacted several times in the last year to ensure that the lines were capable of high speed internet.
 - o After implementation of the monitoring system and after assurance by Century Link that the line was operational, Century Link has informed OEI that the line is severed and not operational.
 - o Furthermore, Century Link informed OEI that the line is illegal installed and Century Link is not responsible for correcting the installation.

G. Other



Tasks Planned:

H. Groundwater Monitoring Plan

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I. Public Involvement Plan

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J. Deep Flow Zone System

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K. Assessment of Aquifer Restoration

- Continue the 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 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 March 6th and March 27th.
- The pretreatment filter will be replaced on March 1st, March 13th and March 27th.
 - o This schedule is subject to change due to heavy concentrations of manganese and iron growth coming through the system. If flow is reduced prior to a scheduled event, the filter will be changed out prematurely.
- The 2016 Air Emissions Report will be prepared and submitted to the Air Quality Division, Environmental Health Department, and the City of Albuquerque.
- Investigations will continue to explore all options to supply CW-2 with an internet connection and allow the monitoring system to be fully implemented.

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
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March 10th, 2017

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 February 2017. A total of 11,376,745 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 1,812,674 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
01/03/2017	530,292,100		73,153,900	
02/01/2017	543,089,000	12,796,900	75,242,800	2,088,900
02/13/2017	547,741,600	4,652,600	75,964,600	721,800
02/13/2017	0	New Meter	0	New Meter
03/01/2017	6,724,145	11,376,745	1,090,874	1,812,674
Total		24,173,645		3,901,574

Thank You,
Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 2 nd		Part 1																
YEAR: 2017		AIR STRIPPERS								INFILTRATION			AQUA-MAG			Tech Initials		
Date	Time	System Status: On/Off	Stripper Alarms	Blower Pressure (HzO)	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	
9 th	6:48	ON	NO	25.0	38.0	28.0	75,242,800	61.22	49.00	1/8" inch	35.43	34,688,700	31,800,800	320	10.0	3	JD	
2 nd	8:58	ON	NO	25.0	38.0	28.0	75,288,100	59.50	50.42	1/8" inch	35.67	34,953,000		310	10.0	3	JD	
7 th	9:00	ON	NO	25.0	46.0	28.0	75,647,600	65.66	46.1	1/2" inch	32.56	35,012,700		260	10.0	3	JD	
8 th	11:20	ON	NO	24.0	39.0	29.5	75,647,700	60.83	49.6	1/8" inch	35.31	35,093,000		260		3	JD	
10 th	8:19	ON	NO				75,774,400										JD	
10 th	2:45	ON	NO	24.0	39.0	29.5	75,774,500	61.38	48.9	1/8" inch	35.90	35,216,600		240	10.0	3	JD	
13 th	7:08	ON	NO	25.0	38.0	29.0	75,962,100	60.47	49.6	1/8" inch	36.50	35,379,000		210	10.0	3	JD	
13 th		Last Reading on old meter					75,964,600					35,401,700	31,800,800					JD
13 th	11:15	ON	NO	25.0	35.0	33.0	650		50.6	1/8" inch	35.90	199	175	210		3	JD	
13 th	2:30 pm						101147											JD
13 th	6:42 pm						10,147	50.7	50.7		36.14							JD
14 th	7:04	ON	NO	25.0	39.0	33.0	47,688	50.6	50.6	1/8" inch	36.26	46,929		200	10.0	3	JD	
14 th	7:46						49,398	50.6										JD
14 th	12:45	ON	NO	25.0	39.0	32.5	50,813		50.6	1/8" inch	35.55	49,709		200		3	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
2/13	8:52	Left

Aqua Mag Top Off		
Date	Time	Gallons of AM

ALARMS	
A-1	Bldg/Wall Pit/Aqua-Mag Bump
A-2	Air stripper Bump
A-3	Pond #6
A-4	Pump Off
A-5	Blower Pressure Low

Influent Filter	
Date	Time
2/13/16	9:00

Collected Samples		
Type	Date	Time
Monthly Metals	2/11	9:00
Chromium Exchange	2/13	2:20

1 inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MOON 2nd
 YEAR: 2017

		AIR STRIPPERS							AQUA-MAG						
Date	Time	System Status On/Off	Stripper Alarms	Blower Pressure (psi)	FW Inlet Pressure (psi)	FW Outlet Pressure (psi)	Water Meter Accumulation	Pump Rate (gpm/200gpm)	Pump Flow Rate (gpm)	Discharge Rate (inches)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (gallons)	PE-G H2O Level (in)	Tech Initials
2 nd	7:15	ON	NO	26.0	34.0	19.5	43,089,000	305.2	1663	1/2 inch	210	20.0	5 3/4		TD
2 nd	9:55	ON	NO	26.0	35.0	20.5	43,419,500	19.19		1/2 inch	190	20.0	5 3/4		TD
7 th	10:39	ON	NO	25.5	34.0	19.0	45,684,500	19.75		1/2 inch	90/450	20.0	5 3/4		TD
9 th	11:18	ON	NO	25.5	34.5	20.0	46,064,300	19.22		1/2 inch	150	—	5		TD
10 th	11:24	ON	NO	25.5	34.5	20.0	46,535,600	19.20		1/2 inch	410	—	5		TD
13 th	11:25	ON	NO	25.5	34.0	20.0	47,740,200	19.53		1/2 inch	350	20.0	5		TD
13 th	11:28	Last reading on old meter 47,741,600													
13 th	12:25	ON	NO	25.5	39.0	21.0	3,349		302.2	1/2 inch	—	—	—		TD
15 th	3:40	ON	NO	25.5	37.0	21.0	778,393	—	310.3	1/2 inch	318	—	4 3/4		TD
16 th	7:17	ON	NO	26.0	36.0	20.0	1,063,829	—	303.7	1/2 inch	303	20.0	4 3/4		TD
3/1	7:10	ON	NO	26.0	36.0	19.5	6,724,145	—	302.2	—	47/450	21.3	4 3/4		TD

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

Collected Samples		
Type	Date	Time
Monthly Metals	2/1	7:20

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
2/7	12:40	29.4 / 15.9"
3/1	7:25	30.6 / 17.8"

1 inch = 1.71875 gallons of Aqua Mag

