

MONTHLY PROGRESS REPORT
For month ending January 31st, 2017

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

02/10/2017

Tasks Completed:

A. Groundwater Monitoring Plan

- Prepared the 2016 Annual Monitoring Report for Discharge Permit DP-1184 as required by the permit and transmitted to the New Mexico Environmental Department (NMED) on January 24th, 2017.
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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 12,796,900 gallons (an average of 307.4 gpm). There were no outages.
- 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 99.73% of the time and pumped 2,088,900 gallons (an average of 50.5 gpm). There were four outages:
 - o On 1/4 due to a Tank Exchange for 11 minutes.
 - o On 1/6 due to a meeting for the upgraded monitoring system for 55 minutes.
 - o On 1/9 due to a meeting for the upgraded monitoring system for 35 minutes.
 - o On 1/23 due to a Tank Exchange for 11 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 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 of the chromium removal unit on January 4th and January 23rd.
- Replaced the pretreatment filter for the Chromium Exchange Tanks on January 4th and January 23rd.
- Collected chromium samples of (a) the influent to the building; (b) the effluent from the first tank; (c) the effluent from the second tank; and (d) the effluent from the air-stripper on tank exchange day.

G. Other

- The components for the monitoring system were all ordered and delivered to DRB Electric for installation in February.

Tasks Planned:

H. Groundwater Monitoring Plan

- The First Quarter 2017 Water Level and Water Quality Monitoring will begin on February 1st, 2017. As requested by the agencies, samples collected from all groundwater monitoring wells scheduled to be sampled in the First Quarter and both treatment systems influent and effluent will be analyzed for the presence of 1,4 – Dioxane using EPA method 8270 (SIM).

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 required discharge report will be filed with the Office of the State Engineer.
- The upgrade monitoring system will be installed and put into operation.

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 February 13th.
- The pretreatment filter will be replaced on February 13th as well.
- The upgrade monitoring system will be installed and put into operation.

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)

Spartan Technology Inc, CW-1 Operation and Maintenance Log

Date		AIR STRIPPERS										AQUA-MAG			P/G Roll (load #)	Tech Initials
Start	Stop	Stripper Status On/Off	Stripper Alarm	Blower Pressure (psig)	PW Inlet Pressure (psig)	PW Outlet Pressure (psig)	Water/Water Accumulation	Pump Rate (gpm/100gpd)	Pump Flow Rate (gpm)	Discharge Rate (inches)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)			
3 rd	9:25	ON	NO	26.0	34.0	20.0	30,292,100	19.59	306.3	1/8 inch	150/150	20.0	6 1/4	2199	TD	
4 th	9:30	ON	NO	26.0	34.0	20.0	30,326,900	19.50	307.7	1/8 inch	430	20.0	5 3/4		TD	
5 th	8:30	ON	NO	25.5	33.5	19.5	31,461,300	19.44	307.1	1/8 inch	410	20.0	5 3/4		TD	
6 th	8:36	ON	NO	26.0	34.0	20.0	31,605,200	19.59	306.3	1/8 inch	390	20.0	5 3/4		TD	
9 th	9:55	ON	NO	26.0	34.0	19.5	32,957,600	19.49	306.2	1/8 inch	325	21.7	5 3/4		TD	
10 th	7:52	ON	NO	26.0	34.0	19.5	33,362,300	19.66	305.2	1/8 inch	305	20.0	5 3/4		TD	
11 th	8:50	ON	NO	25.5	34.0	19.5	33,822,600	19.86	306.7	1/8 inch	385	20.0	5 3/4		TD	
16 th	9:22	ON	NO	26.0	34.0	19.5	36,046,300	19.34	310.2	1/8 inch	185	20.0	5 3/4		TD	
17 th	8:50	ON	NO	26.0	34.0	19.5	36,479,000	19.50	307.7	1/8 inch	165	20.0	5 3/4		TD	
18 th	8:02	ON	NO	26.0	34.0	19.5	36,911,100	19.59	306.3	1/8 inch	145	20.0	5 3/4		TD	
19 th	7:22	ON	NO	26.0	34.0	19.5	37,337,300	19.40	307.1	1/8 inch	125	20.0	5 3/4		TD	
20 th	7:25	ON	NO	26.0	34.0	19.5	37,778,500	19.44	308.6	1/8 inch	105/1450	20.0	5 3/4		TD	
23 rd	9:48	ON	NO	25.5	34.0	19.5	39,125,800	19.41	308.1	1/2 inch	390	20.0	5 3/4		TD	

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
20 th	7:30	26.2/15.8

Collected Samples		
Type	Date	Time
Monthly Metals		

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

1 inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH		Part 2														
YEAR		AIR STRIPPERS										AQUA-MAG				
Date	Time	System Status (On/Off)	Stripper Alarms	Blower Pressure (psi)	PEW Inlet Pressure (psi)	PEW Outlet Pressure (psi)	Water/Water Accumulation	Pump Rate (gpm/200gpd)	Pump Flow Rate (gpm)	Discharge Rate (inches)	Chemical Tank Volume (gal)	Consumption (gpd/day)	Stock (gallons)	PE-G-400 Level (ft)	Test Results	
24 th	7:54	ON	NO	25.5	34.0	19.5	39,580,500	19.50	307.7	1/8 inch	390	20.0	5 3/4		TD	
25 th	9:23	ON	NO	26.0	34.0	20.0	40,030,400	19.50	307.7	1/8 inch	350	20.0	5 3/4		TD	
26 th	9:46	ON	NO	26.0	34.0	20.0	40,479,900	19.69	307.7	1/8 inch	330	20.0	5 3/4		TD	
27 th	8:05	ON	NO	26.0	34.0	20.0	40,891,500	19.56	306.2	1/8 inch	310	20.0	5 3/4		TD	
30 th	3:00	ON	NO	26.0	33.5	19.5	42,340,000	19.50	307.7	1/8 inch	240	23.3	5 3/4		TD	
31 st	9:19	ON	NO	26.0	34.0	19.5	42,685,100	19.47	308.2	1/8 inch	230	20.0	5 3/4		TD	
1 st	7:15	ON	NO	26.0	34.0	19.5	43,089,000	19.63	305.7	1/8 inch	210	20.0	5 3/4		TD	

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		

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

1 inch = 1.71875 gallons of Aqua Mag

Spartan Technology Inc, CW-2 Operation and Maintenance Log

YEAR: 12
2027

Part 1

Date	Time	AIR STRIPPERS										INFILTRATION			AQUA-MAG			Tech Initials
		Startup Status (On/Off)	Stripper Alarm	Blower Pressure (psf)	PIW Inlet Pressure (psf)	PIW Outlet Pressure (psf)	Water Meter Accumulation	Pump Rate (gpm/20gal)	Pump Flow Rate (gpm)	Discharge Rate (inches)	Chemical Tank Flow Rate (gpm)	Pond #1 Accumulation	Pond #2 Accumulation	Chemical Tank Volume (gal)	Consumption (gal/Mg)	Stash Inventory		
5 th	8:40	ON	NO	25.0	45.0	37.0	73,153,900	59.95	50.2	1/2 in	35.55	34,659,000	3600,000	280	11.0	3	TD	
9 th	8:22	ON	NO	25.0	45.0	37.0	73,222,900	60.90	49.3	1/2 in	35.43	34,726,900		265	15.0	3	TD	
4 th	8:45	ON	NO	25.0	42.0	32.0	73,224,900	60.75	49.9	1/2 in	35.06	34,728,300		265	-	3	TD	
5 th	8:59	ON	NO	25.0	41.0	32.0	73,226,100	59.22	50.7	1/2 in	35.31	34,729,200		255	10.0	3	TD	
1 st	8:30	ON	NO	25.0	42.0	33.0	73,367,600	58.85	51.0	1/2 in	35.90	34,867,200		285	10.0	3	TD	
6 th	9:54	ON	NO	25.0	42.0	33.0	73,368,100	59.88	50.1	1/2 in	35.90	34,868,500		285	-	3	TD	
9 th	9:28	ON	NO	25.0	42.0	33.0	73,576,300	59.78	50.2	1/2 in	36.26	34,876,200		210	16.9	3	TD	
9 th	9:28	ON	NO	25.0	42.0	33.0	73,578,400	59.43	50.5	1/2 in	36.26	34,875,000		210	-	3	TD	
10 th	8:00	ON	NO	25.0	42.0	33.0	73,646,600	60.12	49.9	1/2 in	36.38	34,892,900		190	10.0	3	TD	
11 th	8:05	ON	NO	25.0	40.0	32.0	73,718,700	59.91	50.2	1/2 in	35.43	34,924,100		190	10.0	3	TD	
12 th	8:20	ON	NO	25.0	40.0	31.5	73,771,100	61.81	48.5	1/2 in	35.65	34,929,800		180	10.0	3	TD	
16 th	8:10	ON	NO	25.0	38.0	27.5	74,084,700	58.50	51.3	1/2 in	35.55	34,988,700		135	11.25	3	TD	
17 th	8:20	ON	NO	25.0	37.0	28.0	74,158,900	58.10	51.6	1/2 in	35.67	34,940,700		125	10.0	3	TD	
18 th	8:22	ON	NO	25.0	37.0	28.0	74,231,600	57.63		1/2 in	35.67	34,942,200	34,900,000	115	10.0	3	TD	

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

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

(Gallons needed to fill tank +1.1 gallon Aqua Mag)/(100 gallon solution)=Gallons of Aqua Mag needed

Chemical Tank Exchange		
Date	Time	Left/Right
4 th	9:00	Left

Aqua Mag Top Off		
Date	Time	Gallons of AM

ALARMS	
A-1	Blow/Well Pt/Aqua-Mag Scump
A-2	Air Stripper Scump
A-3	Pond #2
A-4	Pump ON
A-5	Blower Pressure Low

Influent Filter	
Date	Time
4 th	9:00

Collected Samples		
Type	Date	Time
Monthly Metals	1/4	8:40
Chromium Exchange	1/4	8:40

1 inch = 1.73875 gallons of Aqua Mag

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: 1 st		YEAR: 2017		AIR STRIPPERS								INFILTRATION			AQUA-MAG			Tech Initials
Date	Time	System Status: On/Off	Stripper Alarms	Blower Pressure (PSI)	PW Inlet Pressure (psf)	PW Outlet Pressure (psf)	Water/Water Accumulation	Pump Rate (m ³ /day)	Pump Flow Rate (gpm)	Discharge Rate (m ³ /hr)	Chemicals Tank Flow Rate (gpm)	Pond #2 Accumulation	Pond #1 Accumulation	Chemical Tank Volume (gal)	Consumption (gpm)	Stock Level	Tech Initials	
17 th	7:30	ON	NO	25.0	37.0	28.0	71,307,000	54.37	51.4	1/2 in/h	35.78	33,781,000	31,500,000	105	10.0	3	JD	
20 th	7:45	ON	NO	25.0	37.0	28.0	71,305,900	60.91	49.7	1/2 in/h	35.98	33,853,000		95/150	10.0	3	JD	
28 th	8:03	ON	NO	25.0	38.0	28.5	71,594,800	59.00	50.8	1/2 in/h	35.67	34,065,900		420	10.0	3	JD	
28 th	9:15	ON	NO	25.0	38.0	28.0	71,594,800	60.00	50.0	1/2 in/h	35.58	34,065,700		420	-	3	JD	
29 th	8:20	ON	NO	25.0	38.0	28.0	71,667,100	60.34	49.7	1/2 in/h	36.26	34,159,000		410	10.0	3	JD	
25 th	7:03	ON	NO	25.0	38.0	28.0	71,741,600	60.50	49.6	1/2 in/h	35.90	34,208,900		400	10.0	3	JD	
26 th	7:36	ON	NO	25.0	38.0	28.0	71,816,000	60.75	49.8	1/2 in/h	35.67	34,282,500		390	10.0	3	JD	
27 th	8:27	ON	NO	26.0	38.0	28.0	71,885,500	59.68	50.3	1/2 in/h	35.78	34,350,000		380	10.0	3	JD	
30 th	7:53	ON	NO	26.0	38.0	27.0	71,910,500	60.65	49.5	1/2 in/h	35.67	34,581,500		340	13.5	3	JD	
31 st	8:37	ON	NO	28.0	38.0	27.0	71,946,000	60.63	49.5	1/2 in/h	35.67	34,633,700		330	10.0	3	JD	
1 st	6:48	ON	NO	25.0	38.0	28.0	71,942,800	61.22	49.00	1/2 in/h	35.43	34,698,700	31,500,000	320	10.0	3	JD	

Discharge=3800/(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

Chemicals Tank Exchange		
Date	Time	Left/Right
23	8:52	Left

Aqua Mag Top Off		
Date	Time	Gallons of AM
10 th	7:45	145 / 8.5"

ALARMS	
A-1	Wdy/Wed P2/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
23	8:52

Collected Samples		
Type	Date	Time
Monthly Metals	1/21/17	3:40
Chemicals Exchange	1/21/17	3:40

1 inch = 1.71875 gallons of Aqua Mag



Dillon Cottingham
6100 Seagull Street NE
Albuquerque, NM 87109

February 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 January 2017. A total of 12,796,900 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 2,088,900 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	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
Total		12,796,900		2,088,900

Thank You,
Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE