

MONTHLY PROGRESS REPORT
For month ending June 30th, 2017

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

07/10/2017

Tasks Completed:

- A. Groundwater Monitoring Plan
- In response to the agencies' request in their November 29, 2016 "Approval with Conditions" letter concerning the 2015 Annual Report and addressed to Mr. Ernesto Martinez of Sparton Technology, Inc. (Sparton), a letter was submitted to the agencies on June 20, with a table summarizing the results of groundwater sampling for 1,4-dioxane for samples collected during the First (February) and Second (May) Quarter sampling events of 2017 and influent and effluent samples collected at the beginning of February and May, 2017.
- B. Public Involvement Plan
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- C. Deep Flow Zone System
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- D. Assessment of Aquifer Restoration
- Completed the CY2016 Annual Report and submitted it to the agencies on June 23. The report was filed in the Public Records of Taylor Ranch Public Library.
- E. Offsite-Containment System
- The system ran 93.56% of the time and pumped 12,031,745 gallons (an average of 282.6 gpm). There were 3 outages:
 - o On 6/11 for 32 hours and 39 minutes due to a loss of PNM power,
 - o On 6/19 for 7 minutes, due to an operator error,
 - o On 6/23 for 12 hours and 58 minutes due to a loss of PNM power.
 - 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 95.00% of the time and pumped 1,964,125 gallons (an average of 46.0 gpm). There were 3 outages:
 - o On 6/10 for 33 hours and 13 minutes due to a loss of PNM power,
 - o On 6/14 for 33 minutes in order to troubleshoot the camera system with the manufacturer,
 - o On 6/19 for 1 hour and 48 minutes due to a tank exchange, filter exchange, and influent line flush.
- 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 June 19th.
- Replaced the pretreatment filter for the Chromium Exchange Tanks on June 19th.
- 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

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Tasks Planned:

H. Groundwater Monitoring Plan

- The sampling plan for the 3Q2017 sampling event will be approved by SSP&A.
- The sampling kits for 3Q2017 will be ordered from H.E.A.L.

I. Public Involvement Plan

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J. Deep Flow Zone System

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K. Assessment of Aquifer Restoration

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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 July 10th and July 31st.
- The pretreatment filter will be replaced on July 10th and July 31st.

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

July 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 July 2017. A total of 12,031,745 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 1,964,125 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
04/03/2017	21,099,188	14,375,043	3,405,652	2,314,778
05/01/2017	33,119,830	12,020,642	5,217,323	1,811,671
06/01/2017	46,666,168	13,546,338	7,356,491	2,139,168
07/01/2017	58,697,913	12,031,745	9,320,616	1,964,125
Total		76,147,413		12,131,316

Thank You,
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 6		AIR STRIPPERS										AQUA-MAG			MOTORS		PE-D H ₂ O Level (ft)	Tech Initials
YEAR: 17		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)	Discharge Rate (min/in)	Chemical Tank Volume (gal)	Consumption (gal/day)	Stock (barrels)	Blower Motor Temperature °	Discharge Meter Temperature °				
6/1	10:20	ON	NO	24.5	37.0	19.9	46666,168	302.1	1/3 inch	155	19.0	1 2/3	106.1	135.2 ^R	22.8	LC		
6/5	8:45	ON	NO	24.5	36.0	17.5	48,376,726	301.8	1/3 inch	371	19.75	1 1/3	109.3	136.1 ^R		C.C		
6/12	8:15	Off	Yes	0	0	/	59,821,836	/	/	255	16.57	1 1/3	76.8	73.8 ^{NR}		LC		
6/12	8:25	ON	NO	24.0	38.0	18.5	50,821,836	303.8	1/3 inch	255	16.57	1 1/3	83.3	86.2		C.C		
6/19	10:25	ON	NO	24.0	36.0	17.5	53,903,451	301.2	1/3 inch	119	19.42	1 1/3	114.2	147.8 ^R		C.C.		
6/24	8:33	ON	NO	22.5	37.5	18.5	55,814,46	304.2	1/3 inch	383	13.4	2/3	87.0	82.3 ^{NR}		C.C		
6/26	8:30	ON	NO	24.0	36.0	18.5	54,866,71	304.1	1/3 inch	343	20.0	2/3	109.0	141.0 ^R		C.C		
7/5	9:35	ON	NO	24.0	36.0	17.5	60,638,772	302.6	1/3 inch	169	17.4	2/3	115.2	140.4 ^R	22.97	LC		

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 On			
Date	Time	Gallons of A-M	Inches of A-M
6-1-17	12:50	29.5	13.08
6-19-17	10:40	25.1	14.63

1 Inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: June																		
YEAR: 17		AIR STRIPPERS							INFILTRATION				AQUA-MAG			MOTORS		
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 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)	Stack Barrels	Blower Motor Temperature °F	Discharge Motor Temperature °F	Tech initials
6/1	8:50	ON	NO	25.0	20	16.5	7,356,491	50.6	1/2 inch	34.45	7,284,091	175	429	10.5	1 2/3	93.8	112.8 ^R	CC
6/5	9:05	ON	NO	24.8	20	17.0	7,640,552	50.6	3/4 inch	35.04	7,563,630	175	380	12.25	1 2/3	94.8	123.1 ^R	CC
6/12	8:55	NO	Yes	—	—	—	8,034,842	—	—	—	7,951,925	175	315	—	1 2/3	—	—	CC
6/17	9:00	ON	NO	24.0	19.0	17.0	8,035,192	50.6	1/2 inch	34.92	7,952,162	175	315	9.28	1 2/3	85.7	87.1 ^R	CC
6/14	13:40	ON	NO	24.0	21.0	19.0	8,118,043	50.6	1/2 inch	36.83	8,102,741	175	290	—	1 2/3	—	—	CC
6/14	14:17	ON	NO	24.0	20.0	18.0	8,188,181	50.6	1/2 inch	35.04	8,103,336	175	290	—	1 2/3	—	—	CC
6/19	7:20	ON	NO	24.0	22.0	22.0	8,514,354	50.6	3/4 inch	36.00	8,421,779	175	245	10.0	1 2/3	99.9	118.5 ^R	CC
6/19	9:26	ON	NO	24.5	21.0	19.0	8,517,722	50.6	3/4 inch	35.04	8,427,416	175	226	—	1 2/3	102.6	107.8 ^R	CC
6/26	7:15	ON	NO	24.5	24.0	22.0	8,922,897	50.6	3/4 inch	35.28	8,893,553	175	157	9.85	1 2/3	92.9	111.9 ^R	CC
7/5	7:30	ON	NO	24.5	21.0	19.0	9,622,438	48.75	1/2 inch	35.04	9,525,968	175	354	9.6	1 2/3	96.7	110.5 ^R	CC

Discharge = Accumulation Difference * 60 / 32 = 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
6/19/17	9:00	Left

Aqua Mag Top Off		
Date	Time	Gallons/inches of Aqua Mag
6/26	7:40	28.5 12.01 - 6.98

ALARMS	
A-1	Blow/Wall 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
6-19-17	8:05

Collected Samples		
Type	Date	Time
Monthly Metals	6-17	9:15
Chromium Exchange		
Chromium Exchange		

1 inch = 1.71875 gallons of Aqua Mag

