

MONTHLY PROGRESS REPORT
For month ending August 31st, 2017

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

09/10/2017

Tasks Completed:

- A. Groundwater Monitoring Plan
- The 3Q2017 Ground Water Sampling event was successfully completed.
- B. Public Involvement Plan
-
- C. Deep Flow Zone System
-
- D. Assessment of Aquifer Restoration
-
- E. Offsite-Containment System
- The system ran 100.00% of the time and pumped 13,532,070 gallons (an average of 303.1 gpm). There were 0 outages.
 - Collected the monthly influent and effluent samples, and measured the water level in the infiltration gallery piezometer.
 - 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 99.95% of the time and pumped 2,064,669 gallons (an average of 46.3 gpm). There was 1 outage:
 - o On 8/21 for 22 minutes due to a Tank Exchange and Filter Change.
 - 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.
 - o Continued to operate the chromium removal unit during the entire month.
 - o Prior to August 21st, 35 gpm of the pumped water was diverted through the unit and was blended 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.

- Upon review of influent and effluent chromium concentration data in 2017, the operation of the chromium treatment unit was modified such that, starting with the replacement of the first tank on August 21st, tank exchanges occur every 4 weeks, from the currently scheduled 3 weeks, and the flow rate diverted to the chromium treatment unit is 27 gpm.
- Replaced the pretreatment filter for the Chromium Exchange Tanks on August 14th and August 21st.
- Prior to each Tank Exchange 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

-

I. Public Involvement Plan

-

J. Deep Flow Zone System

-

K. Assessment of Aquifer Restoration

-

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 September 18th, following a 4-week tank exchange schedule, with 27 gpm of the pumped water diverted to the chromium treatment unit.
- The pretreatment filter will be replaced on September 11th.



N. Other

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O. Problems Encountered or Anticipated:

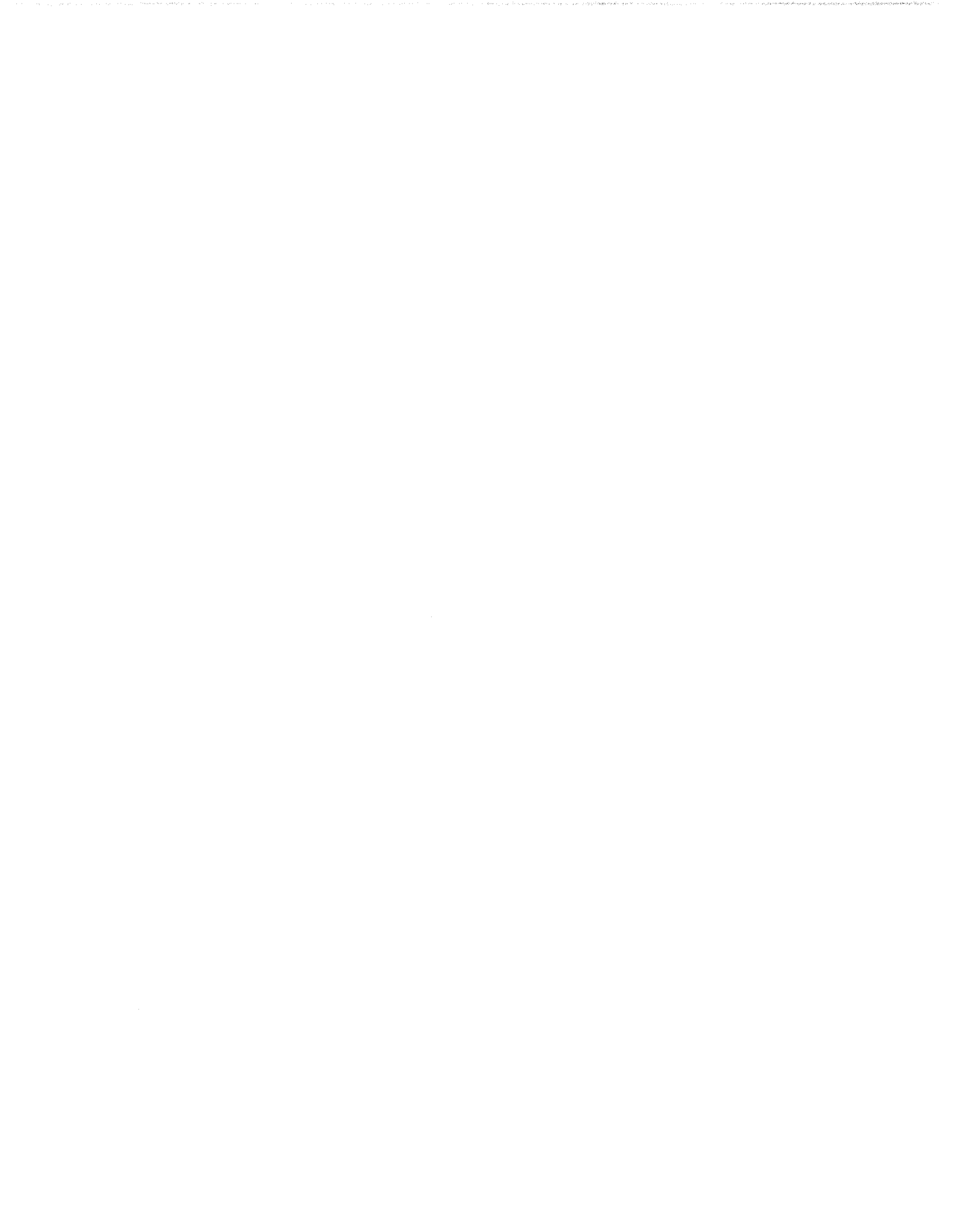
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By:

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, 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 August 2017. A total of 13,532,070 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 2,064,669 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
08/01/2017	72,242,397	13,544,484	11,415,960	2,095,344
09/01/2017	85,774,467	13,532,070	13,480,629	2,064,669
Total		103,223,967		16,291,329

Thank You,
 Sincerely,

Dillon Cottingham, EI

cc: Charles M. Easterling, PE

Sparton Technology Inc, CW-1 Operation and Maintenance Log

MONTH: 8

YEAR: 17

Date	Time	AIR STRIPPERS							AQUA-MAG			MOTORS		PZ-G H ₂ O Level (ft)	Tech Initials	
		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 Motor Temperature °
8/1	8:25	ON	NO	25.0	36.0	18.0	72424446	303.2	1/3 inch	287	18.0	9 3/4	112.2	140.3 ^R	23.0	CC
8/1	2:10	ON	NO	24.0	35.0	17.2	75,138,662	302.7	1/3 inch	169	19.6	9 3/4	117.9	146.0 ^R		CC
8/14	1:20	ON	NO	24.0	36.0	17.5	78,178,642	303.2	1/3 inch	320	18.5	9 1/2	116.9	146.4 ^R		CC
8/21	9:40	ON	NO	24.0	36.0	18.5	81,167,062	303.2	1/3 inch	188	18.8	9 1/2	107.3	127.9 ^R		CC
8/28	10:15	ON	NO	24.0	36.0	18.0	84,232,692	302.8	1/3 inch	394	18.6	9	110.6	140.5 ^R		CC
12 th	9:35	ON	NO	24.0	36.0	18.0	85,965,249	302.5	1/3 inch	315	20.0	9			23.01	W

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	Inches of A-M
8-7-17	2:15	281	12.42
8-25-17	12:24	331	25.15
			14.63

1 Inch = 1.71875 gallons of Aqua Mag

Sparton Technology Inc, CW-2 Operation and Maintenance Log

MONTH: Aug		AIR STRIPPERS															INFILTRATION			AQUA-MAG			MOTORS		Tech Initials
YEAR: 17		System Status: On/Off	Stripper Alarms	Blower Pressure (HzO)	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)	Stock barrels	Blower Motor Temperature °F	Discharge Motor Temperature °F								
8/1	12:00	ON	NO	24.5	21.0	18.0	11,449,392	46,403	3/4 inch	35.04	11,256,361	175	391	10	3	99.4	113.8 ^R	C.C.							
8/7	7:15	ON	NO	24.5	20.0	18.0	11,938,855	46,403	3/4 inch	35.04	11,664,302	175	325	11	3	96.6	117.8 ^{OR}	C.C.							
8/14	1:50	ON	NO	24.0	22.0	20.5	12,323,026	46,875	3/4 inch	35.04	12,133,465	175	247	11	3	109.2	119.4 ^R	C.C.							
8/21	7:30	ON	NO	24.5	17.0	14.0	12,559,029 12,761,733	46,875	3/4 inch	27.29 35.04	12,559,040	175	177	10	3	90.9	103.1 ^{OR}	C.C.							
8/21	9:20	ON	NO	25.0	17.0	16.0	12,765,771	46,875	3/4 inch	27.05	12,561,883	175	177	10	3	88.5	88.2 ^R	C.C.							
8/28	9:30	ON	NO	25.0	17.5	14.5	13,238,995	46,875	3/4 inch	27.17	13,017,910	175	415	11.6	2 1/2	96.4	110.6 ^R	C.C.							
9/1	9:06	ON	NO	25.0	17.0	13.0	13,506,290	46,875	1/2 inch	27.29	13,276,190	175	369	11.5	2 1/2			J.D.							

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
8-21	9:00	R

Aqua Mag Top Off		
Date	Time	Gallons/Inches of Aqua Mag
8-25-17	11:35	314 / 12.95

ALARMS	
A-1	Bldg/Well Pt/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
14 th	8:10
8-21	9:10

Collected Samples		
Type	Date	Time
Monthly Metals		
Chromium Exchange	8-21	7:50
Chromium Exchange		

1 inch = 1.71875 gallons of Aqua Mag

