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Sparton

FAX

To: Dave Cobrain 505 476 6030

From: Tony Hurst: (303 388 8613)

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

Date	No of Pages	Month
1/10/14	(4 total)	Attached is the December 2013 Monthly Report
2/7/14	(3 total)	Attached is the January 2014 Monthly Report
3/7/14	(3 total)	Attached is the February 2014 Monthly Report
4/8/14	(total)	Attached is the March 2014 Monthly Report
5/9/14	(4 total)	Attached is the April 2014 Monthly Report
6/9/14	(total)	Attached is the May 2014 Monthly Report
7/9/14	(3 total)	Attached is the June 2014 Monthly Report
8/6/14	(4 total)	Attached is the July 2014 Monthly Report
9/6/14	(4 total)	Attached is the August 2014 Monthly Report
10/8/14	(4 total)	Attached is the September 2014 Monthly Report
11/5/14	(4 total)	Attached is the October 2014 Monthly Report
12/7/14	(5 total)	Attached is the November 2014 Monthly Report
	(total)	Attached is the December 2014 Monthly Report

Please call me at 719-649-1944 if you have any questions

Thanks

Tony Hurst



Project Coordinator for Sparton Technology, Inc.

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MONTHLY PROGRESS REPORT
For month ending November 30th, 2014**CV-97-0206 (D.N.M)**
Albuquerque v. Sparton Technology, Inc.

12/07/14

Tasks Completed:**A. Groundwater Monitoring Plan**

- Continued to evaluate Monitoring Wells replacement needs.
- Measured the water level in the infiltration gallery piezometer.
- The 4th Quarter GWMP of water-level and water-quality monitoring was conducted between November 3-5 and November 5-29, respectively.

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 monthly influent and effluent samples were collected from both the off-site and source containment systems.
- The system ran 96.66% of the time and pumped 12,758,200 gallons (an average of 294.7 gpm). There was two outages totaling 24 hours and 6 minutes.
 - o On 11/02 through 11/03 for 23 hours, 50 minutes as a result of high stripper water level.
 - o On 11/17 for 16 minutes to allow a water meter installation.
- The meter on the air-stripper blower was replaced.
- Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-69659.
- Finalized the revision of the maintenance schedule and the operation manual for the system.

F. Source Containment System

- See Offsite-Containment reporting for common activities.
- Collected the monthly influent and effluent samples from the treatment system.
- Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG- 73531.
- The system ran 99.84% of the time and pumped 2,255,200 gallons (an average of 52.2 gpm). There was two outages totaling 70 minutes.

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- On 11/17 for 60 minutes to allow a tank/filter exchange.
- On 11/29 for 10 minutes to allow a filter exchange.
- The meter on the air-stripper blower was replaced.
- Operated the chromium removal unit during the entire month; 70% (35 gpm) of the pumped water was routed through the unit and 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.
- Continued the weekly sampling for chromium of the influent and effluent of the chromium unit.
- Replaced the first tank from the chromium removal unit on November 17 and replaced the pretreatment filter.
- The pretreatment filter was replaced again on November 29.
- Exceedance of the New Mexico Water Quality Control Commission chromium standard of 0.050 mg/L in the effluent discharged into the ponds were observed on November 3 (0.076 mg/L). However, chromium concentration in an effluent sample collected about an hour earlier was 0.044 mg/L. The exceedance was therefore considered to be an outlier or a possible laboratory error. Nevertheless, sampling mid-tank and from the effluent from the second tank of the chromium removal system was initiated to evaluate the operation of the system as part of the weekly sampling schedule. The absence of chromium in the effluent from the second tank during the weekly sampling event of November 10 suggested that the chromium removal system is operating as expected and air-stripper effluent concentrations should meet the New Mexico standard. However, another exceedance was observed on November 17 (0.072 mg/L) just before the scheduled tank exchange, therefore suggesting potential breakthrough through the chromium treatment system. New Mexico Environment Department was notified of this exceedance on Friday, November 21, within 24 hours of receipt of the laboratory report. The next weekly sample of November 24 showed absence of chromium in the effluent from the second tank and a concentration of 0.040 mg/L in the air-stripper effluent. Weekly chromium sampling of (a) the influent to the first tank of the chromium removal system; (b) mid-tank; (c) the effluent from the second tank; and (d) the effluent from the air-stripper will continue and adjustments to the percentage of chromium-treated flow or to the frequency of tank exchanges will be made as necessary to eliminate or minimize the occurrence of exceedances.
- Exceedance of the New Mexico Water Quality Control Commission chromium standard of 0.050 mg/L in the effluent discharged into the ponds were observed on November 3 (0.076 mg/L). However, chromium concentration in an effluent sample collected about an hour earlier was 0.044 mg/L. The exceedance was therefore considered to be an outlier or a possible laboratory error. Nevertheless, sampling mid-tank and from the effluent from the second tank of the chromium removal system was initiated to evaluate the operation of the system as part of the weekly sampling schedule. The absence of chromium in the effluent from the second tank during the weekly sampling event of November 10 suggested that the chromium removal system is operating as expected and air-stripper effluent concentrations should meet the New Mexico standard. However, another exceedance was observed on November 17 (0.072 mg/L) just before the scheduled tank exchange, therefore suggesting potential

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breakthrough through the chromium treatment system. New Mexico Environment Department was notified of this exceedance on Friday, November 21, within 24 hours of receipt of the laboratory report. The next weekly sample of November 24 showed absence of chromium in the effluent from the second tank and a concentration of 0.040 mg/L in the air-stripper effluent. Weekly chromium sampling of (a) the influent to the first tank of the chromium removal system; (b) mid-tank; (c) the effluent from the second tank; and (d) the effluent from the air-stripper will continue and adjustments to the percentage of chromium-treated flow or to the frequency of tank exchanges will be made as necessary to eliminate or minimize the occurrence of exceedances.

- Conducted the monthly sampling of pond monitoring wells MW-17 and MW-78 for chromium. Concentration at MW-78 was below 0.050 mg/L and therefore it will be placed to quarterly sampling schedule. However, concentration at well MW-17 was 0.120 mg/L and, therefore, the well will continue to be monitored on a monthly frequency.
- The fence securing existing ponds 2 and 3 and former ponds 1 and 4 was moved to secure only the existing ponds.
- Finalized the revision of the maintenance schedule and the operation manual for the system.

G. Other

- Split sampling (with the EPA) of the influent/effluent from both the off-site and source containment systems and MW-80 for dioxane was conducted on November 3rd, the same day that the influent/effluent samples were collected from both systems.
- Monitored issues related to the construction by AMAFCA in the Calabacillas Arroyo adjacent to the infiltration gallery.

Tasks Planned:**H. Groundwater Monitoring Plan**

- Continue to evaluate Monitoring Wells replacement needs.
- The water level will be measured in the infiltration gallery piezometer.

I. Public Involvement Plan

- Upon approval by the agencies, the 2013 Fact Sheet will be distributed to residents above the plume and along the pipeline to the gallery.

J. Deep Flow Zone System

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K. Assessment of Aquifer Restoration

-

L. Offsite-Containment System

- The monthly influent and effluent samples will be collected.

M. Source Containment System

- The monthly influent and effluent samples will be collected.

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- Weekly chromium sampling of (a) the influent to the first tank of the chromium removal system; (b) mid-tank; (c) the effluent from the second tank; and (d) the effluent from the air-stripper will continue.
- The first tank of the chromium removal unit will be replaced twice this month. The first exchange will take place on December 8. If the December 8 sample of the air-stripper effluent indicates a chromium exceedance, an evaluation will be made to adjust either the tank exchange frequency or the percentage of flow treated for chromium.
- Monthly monitoring of chromium concentrations in pond monitoring well MW-17 will continue.
- In light of the November sampling results, a report summarizing the chromium data collected since installation of the chromium removal unit at the source containment system will be prepared and submitted to the Groundwater Quality Bureau of the NMED.

N. Other

- Copies of the updated maintenance schedule and operation manual for the system will be printed and filed at the treatment building for the system and with Easterling Consultants.
- The required discharge report will be filed with the Office of the State Engineer.
- Will continue to monitor issues related to the construction by AMAFCA in the Calabacillas Arroyo adjacent to the infiltration gallery.

O. Problems Encountered or Anticipated:

By:



Tony Hurst
Project Coordinator for Sparton.

Cc: By fax to Mr. Chuck Hendrickson (EPA: 214-665-7263)
Mr. Dave Cobrain (NMED: 505-476-6030)