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

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HURST ENGINEERING SERVICES

1022 Monaco St Pkwy* Denver, CO 80220

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MONTHLY PROGRESS REPORT
For month ending March 31st, 2014

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

04/06/15

Tasks Completed:

- A. Groundwater Monitoring Plan
 - Continued to evaluate Monitoring Wells replacement needs.

- B. Public Involvement Plan
 -

- C. Deep Flow Zone System
 -

- D. Assessment of Aquifer Restoration
 -

- E. Offsite-Containment System
 - 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.
 - The system ran 100.00 % of the time and pumped 13,589,500 gallons (an average of 304.4 gpm). There was no outages.

- F. Source Containment System
 - The monthly discharge reports for both containment systems were filed with the Office of the State Engineer.
 - Collected the monthly influent and effluent samples from the treatment system
 - The system ran 94.82 % of the time and pumped 2,164,100 gallons (an average of 48.5 gpm). There was seven outages totaling 38 hours, 30 minutes.
 - o On 3/2/15 for 22 minutes for stripper maintenance.
 - o On 3/3/15 through to 3/4/15 for 24 hours 10 minutes for blower motor replacement.
 - o On 3/4/15 for 2 hours 2 minutes for stripper/tank leak maintenance.
 - o On 3/5/15 for 7 hours 32 minutes for stripper/tank leak maintenance.
 - o On 3/10/15 for 2 hours 50 minutes for stripper/tank leak maintenance.
 - o On 3/15/15 for 1 hour 7 minutes for a filter replacement.
 - o On 3/23/15 for 27 minutes for a filter tank exchange.
 - Replaced the first tank from the chromium removal unit on March 2nd and March 23rd
 - Replaced the pretreatment filter for the chromium removal unit on March 13th

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- Continued 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. All samples of the effluent from the air-stripper were below the NMWQCC chromium standard of 0.050 mg/L.
- Conducted the monthly sampling of pond monitoring well MW-17. To investigate whether well development would reduce or eliminate the effects of sediment in the well on total chromium concentrations, the well was developed using a bailer to remove as much of the sediment as possible from the bottom of the well. A second round of sampling was conducted in a manner similar to that used in February, that is, with samples collected under three different conditions using double check valve bailers lowered to the mid-point of the saturated screen interval: (a) a relatively "undisturbed" sample was collected prior to purging the well; (b) a second sample was collected after purging the well, and (c) a third sample was collected a day after the purging of the well. All samples were analyzed for total and dissolved chromium and the results from the three sampling methods were the following: (a) before purging the well: total chromium at 0.047 mg/L and dissolved chromium at 0.041 mg/L; (b) after purging the well: total chromium at 0.062 mg/L and dissolved chromium at 0.039 mg/L; and (c) a day after purging the well: total chromium at 0.046 mg/L and dissolved chromium at 0.038 mg/L. The results indicate that while well redevelopment somewhat reduces the difference between the total and dissolved chromium concentrations, this difference is not significant. Note however that dissolved chromium concentrations for all samples, those collected in February as well as those collected in March, were very similar under all sampling conditions, about 0.040 mg/L.
- A filter to be installed after the air stripper to eliminate occasional chromium exceedances in the effluent discharged into the ponds was purchased and will be delivered in early April.
- Filed the monthly discharge report with the Office of the State Engineer as required under Permit-RG-73531.

G. Other

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Tasks Planned:

H. Groundwater Monitoring Plan

- Continue to evaluate Monitoring Wells replacement needs.

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

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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.
- 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 on April 13th
- The pretreatment filter will be replaced on April 1st and 17th
- Installation of the filter after the air stripper for eliminating occasional chromium exceedances in the effluent discharged into the ponds will be completed.
- Monthly monitoring of chromium concentrations in pond monitoring well MW-17 will continue.
- Sparton will request the approval of the New Mexico Environment Department to revise the compliance standard for DP-1184 to dissolved rather than total chromium.

N. Other

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O. Problems Encountered or Anticipated:

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By:

Tony Hurst
Project Coordinator for Sparton.

Cc: By fax to Mr. Chuck Hendrickson (EPA: 214-665-7263)
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