

Ms. Christine Matlock
Hazardous Waste Section
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Subject:

Quarterly Progress Report – 1st Quarter 2019
RACER Lansing Plants 2, 3, and 6 Industrial Land
USEPA I.D.s MID980700827 and MID005356928
2801 West Saginaw St., 2800 West Saginaw St., and 401 Verlinden St.
Lansing, Michigan

Environment

Dear Ms. Matlock:

Date:

April 15, 2019

Arcadis of Michigan, LLC (Arcadis) is submitting this Quarterly Progress Report on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for Lansing Plants 2, 3, and 6, Industrial Land, in Lansing, Michigan (the Sites). Please note that to the extent possible quarterly progress report submittals have been in the form of project update presentations that RACER has shared with the Michigan Department of Environment Quality (MDEQ) during update meetings. However, no such meeting was held during the first quarter 2019 so this written progress report has been prepared. Future progress reports will be in the form of project update presentations whenever possible.

Contact:

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This Quarterly Progress Report covers the period of January 1, 2019 through March 31, 2019. The following briefly summarizes the work performed during the first quarter of 2019 and a brief schedule of activities anticipated to be completed later in 2019.

Our ref:

B0064479.2018

Work Performed

- The biosparge pre-design study was ongoing from January 1, through March 31, 2019. During this period routine operations, maintenance and monitoring (OMM) and performance monitoring was completed. Routine performance monitoring and OMM included:
 - Routine OMM on the system was completed on the same schedule as performance monitoring. Routine OMM included general equipment inspections; a check of propane levels; inspection of the desiccant dryer; inspection of the in-line filters and collection of (propane) Lower Explosive Level (LEL) readings at select wells;

- A total of 4 groundwater samples were collected and analyzed for 1,4-dioxane and propane during the 1Q groundwater sampling event between February 26 and March 3, 2019;
- Temperature logging related to the natural source zone depletion (NSZD) evaluation was ongoing from January 1, 2019 through March 31, 2019.
- Fourth Quarter 2018 Progress Report was submitted to MDEQ on January 15, 2019.
- RACER Lansing Plant 3 Storm Sewer Modification Work Plan Construction Completion Report was submitted to the MDEQ on January 25, 2019.
- On January 26, 2019 five storm sewer structures at Plant 3 were sampled for per- and polyfluoroalkyl substances (PFAS).
- RACER Lansing Plant 2 PFAS Storm Sewer Sampling Summary Report was submitted to the MDEQ and the various stakeholders on January 29, 2019.
- RACER Lansing Plant 6 PFAS Investigation Phase I Summary Report was submitted to the MDEQ and various stakeholders on January 29, 2019.
- A meeting between RACER and MDEQ to discuss Plant 2 & 6 PFAS investigation results was held via a conference call on February 1, 2019.
- On February 4 and 5, 2019 a total of seven light non-aqueous phase liquid (LNAPL) samples were collected at Plant 2 for PFAS analysis.
- RACER Lansing Biosparge System Initial Installation memorandum was submitted to the MDEQ on February 6, 2019.
- RACER Lansing Plant 6 PFAS Investigation – Phase 2 Scope of Work was submitted to the MDEQ on February 18, 2019.
- RACER Lansing Bedrock Monitoring Well Work Plan was submitted to MDEQ on March 1, 2019. This work plan was submitted to LBWL on March 4, 2019.
- Between February 26 and March 3, 2019, the first quarter groundwater monitoring event was completed. This event included:
 - Gauging of 36 groundwater monitoring wells;
 - Gauging of 24 LNAPL monitoring wells;
 - Sampling of 25 groundwater monitoring wells. Of these a total of 3 monitoring wells were analyzed for 1,4-dioxane, 13 were analyzed for PFAS and 9 were sampled as part of the ongoing biosparge performance monitoring.
- On March 8, 2019 a survey was completed of the 19 new monitoring wells related to PFAS characterization at and in the vicinity of Plant 3.
- On March 26 and 27, 2019 18 storm sewer structures at Plant 2 were sampled and the samples analyzed for PFAS.

Work in Progress and Near-Term Milestones Anticipated During the 2nd Quarter 2019

| Activity | Schedule |
|--|-------------------|
| Continue with the biosparge pre-design pilot study | April 2019 |
| Installation of monitoring wells at Plant 3 for PFAS characterization | April 2019 |
| Attend MDEQ Public Meeting on the Interim Measures Biosparging Plan for the Lower 1,4-Dioxane Plume | April 23, 2019 |
| Disconnect and relocate biosparge building to Plant 3 | April – May 2019 |
| Complete the Plant 6 PFAS Phase 2 Investigation | April – May 2019 |
| Installation of Plant 3 biosparge points | April – May 2019 |
| Sample Plant 6 storm water structures and analyze samples for PFAS | April – May 2019 |
| Continue with NSZD data collection and data summary | April - June 2019 |
| Submit 2018 Annual Groundwater Monitoring Report | May 2019 |
| Plant 3 biosparge unit start-up | June 2019 |

If you have any questions or comments regarding the information presented above, please contact Randy Christensen at Randy.Christensen@Arcadis.com or at 810.225.1940 or Dave Favero with RACER at dfavero@racertrust.org or at 734-879-9525.

Sincerely,
Arcadis of Michigan, LLC



Randy Christensen
Project Manager

- Copies:
- Joe Rogers (MDEQ)
 - John McCabe (MDEQ)
 - Al Taylor (MDEQ)
 - Randy Seida (West Side Water)
 - Alec Melvetis (City of Lansing)
 - Sam Schultz (Lansing Township)
 - Cheryl Loudon (LWBL)
 - David Love (Ingham County Drain Commission)
 - Dave Favero (RACER Trust)