



November 14, 2018

Scott Miller
Remedial Project Manager
Superfund Remedial Branch, Section C
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street SW
Atlanta, GA 30303-8909

VIA EMAIL

Subject: **October 2018 Monthly Progress Report**

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), attached is the October 2018 Monthly Progress Report for the Koppers portion of the Cabot/Koppers Superfund Site in Gainesville, Florida. If you have any questions or comments, please contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Gregory W. Council'.

Gregory W. Council, P.E.
Principal Engineer

cc: Tracie Vaught, FDEP
Rusty Kestle, USEPA
Robin Hallbourg, ACEPD
Agustin (Gus) Olmos, ACEPD
Kristie Williams, City of Gainesville
Yvette Carter, City of Gainesville
Rick Hutton, GRU
Carrie McCoy, Black & Veatch
John Herbert, GeoHydro Consultants
Patricia Cline, Community Technical Advisor
Linda Paul, Koppers, Inc.
Mitchell Brouman, TRMI
Mike Slenska, TRMI
Donna Kopach, TRMI
Jim Erickson, Tetra Tech
Wayne Reiber, Cabot Corporation
Steve Clark, FTS
John Helton, FTS
Bryan Cotter, Water and Air Research, Community Technical Advisor
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TETRA TECH

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**OCTOBER 2018
MONTHLY PROGRESS REPORT
Cabot/Koppers Superfund Site
Gainesville, Florida**

1. Compliance Actions:

- Beazer's Operation and Maintenance (O&M) Contractor performed routine treatment plant O&M services for the groundwater extraction and pretreatment system.
- Remedial Design and Remedial Action activities are presently being conducted.

2. Sampling/Test Results and Data:

- Instantaneous flow rates and totalizer volumes were measured in each extraction well.
- The bi-weekly passive NAPL recovery program continues at Upper Hawthorn monitoring wells and temporary injection points (TIPs) installed as part of the In-Situ Geochemical Stabilization (ISGS) program. Two NAPL recovery events were conducted during the month for the monitoring wells and three were conducted for the TIPs.
- Table 1 provides DNAPL collection data for wells at the Former North Lagoon and Drip Track. The only monitored TIP outside the Former Process Area and Former South Lagoon is at the Drip Track (Table 1). Process Area and South Lagoon recovery data will be included in forthcoming performance monitoring submittals.
- A total of 4,140,884 gallons of groundwater were recovered by the Surficial Aquifer drains and extraction well system (both Surficial Aquifer and UFA) during the past month (system run time of 744 hours). The average recovery rate for the month was approximately 92.8 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 565,246 gallons
 - Former North Lagoon Drain: 502,210 gallons
 - Former Drip Track Drain: 519,640 gallons
 - Former Process Area Drain: 506,950 gallons
 - Former South Lagoon Drain: 520,290 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 23,045 gallons
 - FW-21B: 191,815 gallons
 - FW-31BE: 793,710 gallons
 - FW-32BE: 517,978 gallons

Approximately 453.2 million gallons have been recovered from the Surficial Aquifer extraction wells and four drains since the start of the Surficial Aquifer containment system in January 1995.

For the month, the total volume of water treated and discharged to the GRU wastewater system was measured to be 2,642,000 gallons. A portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former Process Area groundwater drain pump was turned off for approximately 9 hours to pump and clean clarifiers and to treat backwash water.

3. Plans, Reports, Deliverables and Procedures Completed:

- Submitted *Former North Lagoon and Drip Track Preliminary Design and Design Investigation Workplan* on October 29, 2018.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) October 16, 2018.
- Periodic maintenance checks and inspections.
- Treatment-plant component maintenance and repair as needed (caustic pump, carbon vessel gaskets and gauges, sludge pump diverter valve, bag filter vessel). Jetted clarifier effluent line, pressure washed clarifier, cleaned oil from sump, installed and calibrated process flow meters, and installed chemical pump output channels.
- Sampled irrigation breakthrough water October 30, 2018.
- Sampled stormwater rinsate water on October 1, 2018.
- Investigated FW-31 VFD and installed a new one.
- Repaired/rebuilt KIFCO cart (part of irrigation system).
- Repaired FW-6 compressor.
- Repaired EW-14 pump and flow meter.
- Cleaned EW-14 pump head.
- Installed new modem at weather station.
- On-property irrigation using treated groundwater from FW-21B, FW-31BE, and FW-32BE.

4. Upcoming Actions:

- Fourth quarter sampling event December 17-18, 2018.
- NAPL collection at Upper Hawthorn monitoring wells: bi-weekly.
- NAPL collection at temporary Upper Hawthorn ISGS injection points: bi-weekly.
- Routine inspection, operation, maintenance, and monitoring.

5. Schedule Status:

- Minor modifications were made to the project schedule.

6. Community Involvement:

- Future community involvement activities will be coordinated with EPA.

Table 1. DNAPL recovery volume (gal) at wells and at Drip Track TIP: October 2018

Date	Well	Volume (gal)
10/11/2018	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
10/25/2018	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.5
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
10/2/2018	Drip Track	0.4
10/16/2018	Drip Track	0.5
10/30/2018	Drip Track	0.6

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		H1
							H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2				
184	7.1	Pre-Design Investigation Workplan	8 wks	15	Tue 9/4/18	Mon 10/29/18																					
185	7.2	Beazer Submit Pre-Design Investigation WP	0 wks	184	Mon 10/29/18	Mon 10/29/18																					
186	7.3	Review and Approval	3 wks	185	Tue 10/30/18	Mon 11/19/18																					
187	7.4	Conduct Pre-Design Investigation	11 wks	186	Tue 11/20/18	Mon 2/4/19																					
188	7.5	Pilot Test Workplan	17.5 wks	187	Tue 2/5/19	Thu 6/6/19																					
189	7.6	Beazer Submit Pilot Test Workplan	0 wks	188	Thu 6/6/19	Thu 6/6/19																					
190	7.7	Review and Approval	8 wks	189	Thu 6/6/19	Thu 8/1/19																					
191	7.8	Conduct Pilot Test	28 wks	190	Thu 8/1/19	Thu 2/13/20																					
192	7.9	Preliminary Design	12 wks	191	Thu 2/13/20	Thu 5/7/20																					
193	7.10	Submit Preliminary Design	0 wks	192	Thu 5/7/20	Thu 5/7/20																					
194	7.11	Review and Comment	10 wks	193	Thu 5/7/20	Thu 7/16/20																					
195	7.12	Pre-Final Design	12 wks	194	Thu 7/16/20	Thu 10/8/20																					
196	7.13	Review and Comment	9 wks	195	Thu 10/8/20	Thu 12/10/20																					
197	7.14	Final Design	6 wks	196	Thu 12/10/20	Thu 1/21/21																					
198	7.15	Review and Approval	4 wks	197	Thu 1/21/21	Thu 2/18/21																					
199	7.16	EPA Approval of Final Design	0 wks	198	Thu 2/18/21	Thu 2/18/21																					
200	7.17	Prepare RAWP	8 wks	199	Thu 2/18/21	Thu 4/15/21																					
201	7.18	Submit RAWP	0 wks	200	Thu 4/15/21	Thu 4/15/21																					
202																											
203		8 Other Engineered Components: DESIGN TRACK #5	57 wks		Mon 1/7/19	Fri 2/7/20																					
204	8.1	Pre-Design Work Plan	5 wks		Mon 1/7/19	Fri 2/8/19																					
205	8.2	Submit Pre-Design Work Plan	0 wks	204	Fri 2/8/19	Fri 2/8/19																					
206	8.3	Review and Approval	6 wks	205	Mon 2/11/19	Fri 3/22/19																					
207	8.4	EPA Approval of Pre-Design Work Plan	0 wks	206	Fri 3/22/19	Fri 3/22/19																					
208	8.5	Pre-Design Investigation	13 wks	207	Mon 3/25/19	Fri 6/21/19																					
209	8.6	Preliminary Design	6 wks	208	Mon 6/24/19	Fri 8/2/19																					
210	8.7	Submit Preliminary Design	0 wks	209	Fri 8/2/19	Fri 8/2/19																					
211	8.8	Review and Comment	5 wks	210	Mon 8/5/19	Fri 9/6/19																					
212	8.9	Pre-Final Design	7 wks	211	Mon 9/9/19	Fri 10/25/19																					
213	8.10	Review and Comment	3 wks	212	Mon 10/28/19	Fri 11/15/19																					
214	8.11	Final Design	3 wks	213	Mon 11/18/19	Fri 12/6/19																					
215	8.12	Review	1 wk	214	Mon 12/9/19	Fri 12/13/19																					
216	8.13	EPA Approval of Final Design	0 wks	215	Fri 12/13/19	Fri 12/13/19																					
217	8.14	Prepare RAWP	8 wks	216	Mon 12/16/19	Fri 2/7/20																					
218	8.15	Submit RAWP	0 wks	217	Fri 2/7/20	Fri 2/7/20																					
219																											
220		9 Institutional Control	333.8 wks		Tue 7/9/13	Thu 11/28/19																					
221	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13	Fri 8/23/13																					
222	9.2	Submit ICIAP	0 wks	221	Fri 8/23/13	Fri 8/23/13																					
223	9.3	Review	12.5 wks	222	Mon 8/26/13	Wed 11/20/13																					
224	9.4	Beazer Respond to Comments	9 wks	223	Fri 10/12/18	Thu 12/13/18																					
225	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	224	Thu 12/13/18	Thu 12/13/18																					
226	9.6	Review	3 wks	225	Fri 12/14/18	Thu 1/3/19																					
227	9.7	EPA and FDEP Approval of ICIAP	0 wks	226	Thu 1/3/19	Thu 1/3/19																					
228	9.8	Implement Beazer-Property Restrictive Covenant	47 wks		Fri 1/4/19	Thu 11/28/19																					
229	9.8.1	Draft Proprietary Controls Package	13 wks	227	Fri 1/4/19	Thu 4/4/19																					
230	9.8.2	Submit Draft Proprietary Controls Package	0 wks	229	Thu 4/4/19	Thu 4/4/19																					
231	9.8.3	Review and Updating	8 wks	230	Fri 4/5/19	Thu 5/30/19																					
232	9.8.4	Update Title Search and Prepare Public Notice	8 wks	231	Fri 5/31/19	Thu 7/25/19																					
233	9.8.5	Beazer Publish Public Notice	0 wks	232	Thu 7/25/19	Thu 7/25/19																					
234	9.8.6	Public Comment Period	4.4 wks	233	Fri 7/26/19	Mon 8/26/19																					
235	9.8.7	Address Comments and Execute Restrictive Covenant	5 wks	234	Tue 8/27/19	Mon 9/30/19																					
236	9.8.8	Record Restrictive Covenant at Alachua County Clerk of C	0 wks	235	Mon 9/30/19	Mon 9/30/19																					
237	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	236	Tue 10/1/19	Thu 11/28/19																					
238	9.8.10	Submit Final Proprietary Controls Package	0 wks	237	Thu 11/28/19	Thu 11/28/19																					