



June 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: **May 2018 Monthly Progress Report**

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), attached is the May 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, appearing to read 'Gregory W. Council'.

Gregory W. Council, P.E.
Principal Engineer

cc: Kelsey Helton, FDEP
Brandie Stringer, 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
Josh Hayes, J.M. Waller
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
Mark Taylor, Weston Solutions

TETRA TECH

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MAY 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 3,732,058 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 743 hours). The average recovery rate for the month was approximately 83.7 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 596,466 gallons
 - Former North Lagoon Drain: 474,280 gallons
 - Former Drip Track Drain: 483,660 gallons
 - Former Process Area Drain: 530,270 gallons
 - Former South Lagoon Drain: 62,580 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 32,153 gallons
 - FW-21B: 155,734 gallons
 - FW-31BE: 940,290 gallons
 - FW-32BE: 456,625 gallons

Approximately 441.5 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 2,172,000 gallons. A portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former South Lagoon and Process Area groundwater drain pumps were turned off for approximately 6 hours to pump and clean clarifiers and to treat backwash water, in addition to one hour for plant repairs.

3. Plans, Reports, Deliverables and Procedures Completed:

- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) May 15, 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). Replaced plant valves, installed new air supply, repaired plant transfer pumps and hoses, repaired chemical pump wiring, repaired filter press hydraulic valve, repaired caustic leak, flushed chemical lines and filters, repaired plant feed pump and repaired plant plumbing and effluent piping.
- Irrigation breakthrough sampling May 31, 2018.
- Extraction well house and pump electrical repairs to EW-17, EW-16, EW-13, EW-09, EW-11, EW-05, EW-08
- On-property irrigation using treated groundwater from FW-21B, FW-31BE, and FW-32BE.
- South Lagoon ISGS treatment continuing.

4. Upcoming Actions:

- Second quarter sampling event June 18- 22, 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.
- South Lagoon ISGS treatment in June.

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: May 2018

Date	Well	Volume (gal)
5/10/2018	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
5/24/2018	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.3
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
5/1/2018	Drip Track	0.1
5/15/2018	Drip Track	0.1
5/29/2018	Drip Track	0.1

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021	
								H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2			
1	1	Consent Decree for RD/RA	23.8 wks		Thu 2/7/13	Wed 7/24/13																					
2	1.1	US DOJ Lodges Donsent Decree with Court	0 days		Thu 2/7/13	Thu 2/7/13																					
3	1.2	Public Comment on Consent Decree	4.6 wks		Wed 2/13/13	Fri 3/15/13																					
4	1.3	Beazer Submittal: Project Coordinators, Supervising Contractor, Quality Management Plan	0 days		Fri 2/15/13	Fri 2/15/13																					
5	1.4	Court Enters Consent Decree Final	0 days		Tue 7/9/13	Tue 7/9/13	220																				
6	1.5	EPA Issues Authorization to Proceed with Remedial Design	0 days		Wed 7/24/13	Wed 7/24/13	9																				
7																											
8	2	Remedial Design Work Plan (RDWP)	22.3 wks		Wed 7/24/13	Thu 12/26/13																					
9	2.1	Prepare RDWP	43 days	6	Wed 7/24/13	Fri 9/20/13	10																				
10	2.2	Beazer Submit RDWP	0 wks	9	Fri 9/20/13	Fri 9/20/13	11,19,18																				
11	2.3	EPA Review and Comment RDWP	6.8 wks	10	Mon 9/23/13	Thu 11/7/13	12																				
12	2.4	Beazer Respond to Comments	4.3 wks	11	Fri 11/8/13	Mon 12/9/13	13																				
13	2.5	Beazer Submit Responses and RDWP Version 2	0 wks	12	Mon 12/9/13	Mon 12/9/13	14																				
14	2.6	EPA Review	2.6 wks	13	Mon 12/9/13	Thu 12/26/13	15																				
15	2.7	EPA Approval RDWP	0 wks	14	Thu 12/26/13	Thu 12/26/13	183,95																				
16																											
17	3	Supporting Plans for RD/RA	100.8 wks		Fri 9/20/13	Thu 8/27/15																					
18	3.5	Beazer Submit Health & Safety Plan	0 wks	10	Fri 9/20/13	Fri 9/20/13																					
19	3.2	Materials Management Plan	5 wks	10	Tue 4/1/14	Mon 5/5/14	20FF,21FF,22FF																				
20	3.6	Stormwater Management Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14																					
21	3.7	Noise and Dust Control Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14																					
22	3.5	Equipment Decontamination Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/14																					
23	3.6	Beazer update QAPP	33.8 wks		Mon 1/5/15	Thu 8/27/15	24																				
24	3.7	Beazer Submit Revised QAPP	0 wks	23	Thu 8/27/15	Thu 8/27/15																					
25																											
26	4	Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	121.4 wks		Tue 4/30/13	Thu 8/27/15																					
27	4.1	Initial Identification of Remediation & Evaluation Parcels	0 wks		Tue 4/30/13	Tue 4/30/13																					
28	4.2	Obtain Access Agreements for Surveys & Sampling	23 wks		Thu 5/2/13	Wed 10/9/13																					
29	4.3	Community Information Session	0 wks		Thu 5/30/13	Thu 5/30/13																					
30	4.4	Sampling for Refinement of Remediation Parcels (July 2013)	18.8 wks		Fri 7/19/13	Wed 11/27/13																					
31	4.4.1	Proposal for Sampling (July 2013)	0 wks		Fri 7/19/13	Fri 7/19/13																					
32	4.4.2	EPA Approval of Sampling	0 wks		Mon 7/22/13	Mon 7/22/13																					
33	4.4.3	Sample Collection	2 days		Tue 7/30/13	Wed 7/31/13	34																				
34	4.4.4	Analysis and Validation	6.2 wks	33	Thu 8/1/13	Thu 9/12/13	35																				
35	4.4.5	Data Summary Report	10.8 wks	34	Fri 9/13/13	Wed 11/27/13	49,36																				
36	4.4.6	Beazer Submit Data Summary and Fingerprinting Report	0 wks	35	Wed 11/27/13	Wed 11/27/13																					
37	4.5	Pilot Home Soil Replacement	10.3 wks		Thu 9/26/13	Fri 12/6/13																					
38	4.5.1	Survey	1.8 wks		Thu 9/26/13	Tue 10/8/13	39																				
39	4.5.2	Design & Interview	3 wks	38	Wed 10/9/13	Tue 10/29/13																					
40	4.5.3	Borrow Sampling	2 wks		Thu 10/10/13	Wed 10/23/13	41																				
41	4.5.4	Sample Analysis	2 wks	40	Thu 10/24/13	Wed 11/6/13	43																				
42	4.5.5	Pilot Plan	6 wks		Thu 9/26/13	Wed 11/6/13	43																				
43	4.5.6	Submit Pilot Plan	0 wks	42,41	Wed 11/6/13	Wed 11/6/13	44																				
44	4.5.7	Review	1 wk	43	Thu 11/7/13	Wed 11/13/13	45																				
45	4.5.8	EPA Approval of Pilot Plan	0 wks	44	Wed 11/13/13	Wed 11/13/13	47,46FF																				
46	4.5.9	Permitting	2 wks	45FF	Thu 10/31/13	Wed 11/13/13	47																				
47	4.5.10	Pilot Implementation	3.3 wks	46,45	Thu 11/14/13	Fri 12/6/13																					
48	4.6	Blocks A-I Remediation Design	42.4 wks		Mon 9/16/13	Tue 7/8/14																					
49	4.6.1	Remedial Design Details	12.4 wks	35	Thu 11/28/13	Fri 2/21/14	50																				
50	4.6.2	Submit RD Details	0 wks	49	Fri 2/21/14	Fri 2/21/14	51																				
51	4.6.3	Review and Comment	0.8 wks	50	Mon 2/24/14	Thu 2/27/14																					
52	4.6.4	Surveying & Interviews	34 wks		Mon 9/16/13	Fri 5/9/14																					
53	4.6.5	Parcel Designs & Remediation Agreements	28 wks		Mon 12/2/13	Fri 6/13/14																					

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	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	H1	H2
159	6.2.2	Submit Preliminary Design & Design Investigation Work	0 wks	158	Mon 4/20/15	Mon 4/20/15	160																				
160	6.2.3	Review of Preliminary Design & Design Investigation Work Plan	45 wks	159	Tue 4/21/15	Mon 2/29/16	161																				
161	6.2.4	Prepare Revised Preliminary Design & Design Investigation Work Plan	3.1 wks	160	Tue 3/1/16	Tue 3/22/16	162																				
162	6.2.5	Review and Approval of Work Plan	24.6 wks	161	Tue 3/22/16	Fri 9/9/16	163																				
163	6.2.6	Installation of Borings and DNAPL Recovery Wells	15.4 wks	162	Thu 4/13/17	Fri 7/28/17	170,169																				
164	5.2.6.1	Phase I Results and Plan for Additional Borings	0 wks		Thu 4/13/17	Thu 4/13/17	165																				
165	5.2.6.2	Review and Comment	4.8 wks	164	Thu 4/13/17	Tue 5/16/17	166																				
166	5.2.6.3	Revised Plan for Additional Borings	1.6 wks	165	Wed 5/17/17	Fri 5/26/17	167																				
167	5.2.6.4	Review and Approval	3.4 wks	166	Mon 5/29/17	Tue 6/20/17	168																				
168	5.2.6.5	Installation of Additional Borings	5.6 wks	167	Wed 6/21/17	Fri 7/28/17																					
169	6.2.7	Collection of Baseline Data	23 wks	163	Mon 7/31/17	Thu 1/4/18																					
170	6.2.8	Pre-Final Design	11.6 wks	163	Mon 7/31/17	Wed 10/18/17	171																				
171	6.2.9	Submit Pre-Final Design	0 wks	170	Wed 10/18/17	Wed 10/18/17	172																				
172	6.2.10	Review and Comment	13.4 wks	171	Thu 10/19/17	Thu 1/18/18	173																				
173	6.2.11	Final Design and RAWP	5.4 wks	172	Fri 1/19/18	Mon 2/26/18	174																				
174	6.2.12	Submit Final Design and RAWP	0 wks	173	Mon 2/26/18	Mon 2/26/18	175																				
175	6.2.13	Review	1.8 wks	174	Tue 2/27/18	Fri 3/9/18	176																				
176	6.2.14	EPA Approval of Final Design and RAWP	0 wks	175	Fri 3/9/18	Fri 3/9/18	177																				
177	6.2.15	Prepare for ISGS Injections	7 wks	176	Mon 3/12/18	Fri 4/27/18	178																				
178	6.2.16	Implementation of Process-Area ISGS Injections	9.2 wks	177	Mon 4/30/18	Mon 7/2/18	141,143,179																				
179	6.2.17	Prepare Implementation Report	25 wks	140,178	Tue 7/3/18	Mon 12/24/18	180																				
180	6.2.18	Submit Implementation Report	0 wks	179	Mon 12/24/18	Mon 12/24/18																					
181																											
182	7	In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	126 wks		Mon 7/9/18	Fri 12/4/20																					
183	7.1	Pre-Design Investigation & Treatability Test Workplan	6 wks	15	Mon 7/9/18	Fri 8/17/18	184																				
184	7.2	Beazer Submit Pre-Design Investigation & Treatability Test	0 wks	183	Fri 8/17/18	Fri 8/17/18	185																				
185	7.3	Review and Approval	5 wks	184	Mon 8/20/18	Fri 9/21/18	186																				
186	7.4	Conduct Pre-Design Investigation & Treatability Test	26 wks	185	Mon 9/24/18	Fri 3/22/19	187																				
187	7.5	Pilot Test Workplan	8 wks	186	Mon 3/25/19	Fri 5/17/19	188																				
188	7.6	Beazer Submit Pilot Test Workplan	0 wks	187	Fri 5/17/19	Fri 5/17/19	189																				
189	7.7	Review and Approval	8 wks	188	Mon 5/20/19	Fri 7/12/19	190																				
190	7.8	Conduct Pilot Test	12 wks	189	Mon 7/15/19	Fri 10/4/19	191																				
191	7.9	Preliminary Design	12 wks	190	Mon 10/7/19	Fri 12/27/19	192																				
192	7.10	Submit Preliminary Design	0 wks	191	Fri 12/27/19	Fri 12/27/19	193																				
193	7.11	Review and Comment	10 wks	192	Mon 12/30/19	Fri 3/6/20	194																				
194	7.12	Pre-Final Design	12 wks	193	Mon 3/9/20	Fri 5/29/20	195																				
195	7.13	Review and Comment	9 wks	194	Mon 6/1/20	Fri 7/31/20	196																				
196	7.14	Final Design	6 wks	195	Mon 8/3/20	Fri 9/11/20	197																				
197	7.15	Review and Approval	4 wks	196	Mon 9/14/20	Fri 10/9/20	198																				
198	7.16	EPA Approval of Final Design	0 wks	197	Fri 10/9/20	Fri 10/9/20	199																				
199	7.17	Prepare RAWP	8 wks	198	Mon 10/12/20	Fri 12/4/20	200																				
200	7.18	Submit RAWP	0 wks	199	Fri 12/4/20	Fri 12/4/20																					
201																											
202	8	Other Engineered Components: DESIGN TRACK #5	57 wks		Mon 7/9/18	Fri 8/9/19																					
203	8.1	Pre-Design Work Plan	5 wks		Mon 7/9/18	Fri 8/10/18	204																				
204	8.2	Submit Pre-Design Work Plan	0 wks	203	Fri 8/10/18	Fri 8/10/18	205																				
205	8.3	Review and Approval	6 wks	204	Mon 8/13/18	Fri 9/21/18	206																				
206	8.4	EPA Approval of Pre-Design Work Plan	0 wks	205	Fri 9/21/18	Fri 9/21/18	207																				
207	8.5	Pre-Design Investigation	13 wks	206	Mon 9/24/18	Fri 12/21/18	208																				
208	8.6	Preliminary Design	6 wks	207	Mon 12/24/18	Fri 2/1/19	209																				
209	8.7	Submit Preliminary Design	0 wks	208	Fri 2/1/19	Fri 2/1/19	210																				
210	8.8	Review and Comment	5 wks	209	Mon 2/4/19	Fri 3/8/19	211																				

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021	
								H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
211	8.9	Pre-Final Design	7 wks	210	Mon 3/11/19	Fri 4/26/19	212																				
212	8.10	Review and Comment	3 wks	211	Mon 4/29/19	Fri 5/17/19	213																				
213	8.11	Final Design	3 wks	212	Mon 5/20/19	Fri 6/7/19	214																				
214	8.12	Review	1 wk	213	Mon 6/10/19	Fri 6/14/19	215																				
215	8.13	EPA Approval of Final Design	0 wks	214	Fri 6/14/19	Fri 6/14/19	216																				
216	8.14	Prepare RAWP	8 wks	215	Mon 6/17/19	Fri 8/9/19	217																				
217	8.15	Submit RAWP	0 wks	216	Fri 8/9/19	Fri 8/9/19																					
218																											
219	9	Institutional Control	318 wks		Tue 7/9/13	Fri 8/9/19																					
220	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13	Fri 8/23/13	221																				
221	9.2	Submit ICIAP	0 wks	220	Fri 8/23/13	Fri 8/23/13	222																				
222	9.3	Review	12.5 wks	221	Mon 8/26/13	Wed 11/20/13	223																				
223	9.4	Beazer Respond to Comments	6 wks	222	Mon 7/16/18	Fri 8/24/18	224																				
224	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	223	Fri 8/24/18	Fri 8/24/18	225																				
225	9.6	Review	3 wks	224	Mon 8/27/18	Fri 9/14/18	226																				
226	9.7	EPA and FDEP Approval of ICIAP	0 wks	225	Fri 9/14/18	Fri 9/14/18	228																				
227	9.8	Implement Beazer-Property Restrictive Covenant	47 wks		Mon 9/17/18	Fri 8/9/19																					
228	9.8.1	Draft Proprietary Controls Package	13 wks	226	Mon 9/17/18	Fri 12/14/18	229																				
229	9.8.2	Submit Draft Proprietary Controls Package	0 wks	228	Fri 12/14/18	Fri 12/14/18	230																				
230	9.8.3	Review and Updating	8 wks	229	Mon 12/17/18	Fri 2/8/19	231																				
231	9.8.4	Update Title Search and Prepare Public Notice	8 wks	230	Mon 2/11/19	Fri 4/5/19	232																				
232	9.8.5	Beazer Publish Public Notice	0 wks	231	Fri 4/5/19	Fri 4/5/19	233																				
233	9.8.6	Public Comment Period	4.4 wks	232	Mon 4/8/19	Tue 5/7/19	234																				
234	9.8.7	Address Comments and Execute Restrictive Covenant	5 wks	233	Wed 5/8/19	Tue 6/11/19	235																				
235	9.8.8	Record Restrictive Covenant at Alacha County Clerk of C	0 wks	234	Tue 6/11/19	Tue 6/11/19	236																				
236	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	235	Wed 6/12/19	Fri 8/9/19	237																				
237	9.8.10	Submit Final Proprietary Controls Package	0 wks	236	Fri 8/9/19	Fri 8/9/19																					

Red text used for current tasks

Task  Milestone  Summary 