



July 8, 2016

Rusty Kestle
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: June 2016 Monthly Progress Report

Dear Mr. Kestle :

On behalf of Beazer East, Inc. (Beazer), attached is the June 2016 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
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
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

JUNE 2016
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.
- NAPL recovery was restarted in the Process Area in November following ISGS injections. The data are currently being analyzed and will be transmitted separately.
- A total of 3,476,302 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 673.5 hours). The average recovery rate for the month was approximately 86.0 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 499,175 gallons
 - Former North Lagoon Drain: 330,850 gallons
 - Former Drip Track Drain: 402,780 gallons
 - Former Process Area Drain: 379,620 gallons
 - Former South Lagoon Drain: 404,870 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 13,504 gallons
 - FW-21B: 131,111 gallons
 - FW-31BE: 875,490 gallons
 - FW-32BE: 438,902 gallons

Approximately 390.1 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 1,972,000 gallons. A portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former South Lagoon groundwater drain pumps were turned off for approximately 8.5 hours to pump and clean clarifiers and to treat backwash water.

3. Plans, Reports, Deliverables and Procedures Completed:

- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) June 21, 2016.
- 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). This included work on the transfer pump, filter press pump, caustic transfer pump and carbon absorber.
- Irrigation Breakthrough sampling on June 23, 2016.

- Stormwater Sampling on June 6 and June 7, 2016.
- TSE Sampling for metals June 23, 2016.
- Replaced Drip Track Trench pump.
- Repaired FW-6 compressor and shocked FW-6 well.
- Replaced polymer line from trench.
- On-property irrigation using treated groundwater from FW-6, FW-21B, FW-31BE, and FW-32BE.

4. Upcoming Actions:

- NAPL collection at Upper Hawthorn monitoring wells: bi-weekly.
- NAPL collection at temporary Upper Hawthorn ISGS injection points: bi-weekly.
- NAPL collection in Process Area: bi-weekly.
- Routine inspection, operation, maintenance, and monitoring.
- Third quarter sampling event: August 15-26, 2016.

5. Schedule Status:

- Minor modifications were made to the project schedule.

6. Community Involvement:

- Future community involvement activities will be coordinated with EPA.

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2013		2014				2015				2016				2017				2018				2019			
								Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4		
126	5.1.8.2	Pilot Injections	3 wks	125	Mon 3/24/14	Fri 4/11/14	129,127FS+10 wks																										
127	5.1.8.3	Borings in Injection Area	1 wk	126FS+10 wk	Mon 6/23/14	Fri 6/27/14																											
128	6.1.9	Technical Working Group Meeting	0 wks		Thu 7/10/14	Thu 7/10/14																											
129	6.1.10	Pre-Final Design	44 wks	126	Mon 4/14/14	Fri 2/13/15	130																										
130	6.1.11	Submit Pre-Final Design	0 wks	129	Fri 2/13/15	Fri 2/13/15	131																										
131	6.1.12	Review and Comment	6 wks	130	Mon 2/16/15	Fri 3/27/15	132																										
132	6.1.13	Final Design and RAWP	3.2 wks	131	Mon 3/30/15	Mon 4/20/15	133																										
133	6.1.14	Submit Final Design and RAWP	0 wks	132	Mon 4/20/15	Mon 4/20/15	134																										
134	6.1.15	Review	0.4 wks	133	Tue 4/21/15	Wed 4/22/15	135																										
135	6.1.16	EPA Approval of Final Design and RAWP	0 wks	134	Wed 4/22/15	Wed 4/22/15	136FS+7 wks																										
136	6.1.17	Implementation of Process-Area ISGS Injections	12 wks	135FS+7 wks	Tue 7/7/15	Mon 9/28/15	137,139																										
137	6.1.18	Prepare Implementation Report	26.1 wks	136	Tue 9/29/15	Tue 3/29/16	138																										
138	6.1.19	Submit Implementation Report	0 wks	137	Tue 3/29/16	Tue 3/29/16																											
139	6.1.20	Post-Injection Effectiveness Monitoring	52 wks	136	Tue 9/29/15	Mon 9/26/16																											
140	6.2	South Lagoon	131.3 wks		Mon 9/8/14	Tue 3/14/17																											
141	6.2.1	Preliminary Design & Design Investigation Work Plan	32.2 wks		Mon 9/8/14	Mon 4/20/15	142																										
142	6.2.2	Submit Preliminary Design & Design Investigation Work Plan	0 wks	141	Mon 4/20/15	Mon 4/20/15	143																										
143	6.2.3	Review of Preliminary Design & Design Investigation Work Plan	45 wks	142	Tue 4/21/15	Mon 2/29/16	144																										
144	6.2.4	Prepare Revised Preliminary Design & Design Investigation Work Plan	3.1 wks	143	Tue 3/1/16	Tue 3/22/16	145																										
145	6.2.5	Review and Approval of Work Plan	17 wks	144	Tue 3/22/16	Tue 7/19/16	146																										
146	6.2.6	Installation of Borings and DNAPL Recovery Wells	17 wks	145	Tue 7/19/16	Tue 11/15/16	147,148																										
147	6.2.7	Collection of Baseline Data	17 wks	146	Tue 11/15/16	Tue 3/14/17																											
148	6.2.8	Pre-Final Design	6 wks	146	Tue 11/15/16	Tue 12/27/16	149																										
149	6.2.9	Submit Pre-Final Design	0 wks	148	Tue 12/27/16	Tue 12/27/16	150																										
150	6.2.10	Review and Comment	3 wks	149	Tue 12/27/16	Tue 1/17/17	151																										
151	6.2.11	Final Design and RAWP	4 wks	150	Tue 1/17/17	Tue 2/14/17	152																										
152	6.2.12	Submit Final Design and RAWP	0 wks	151	Tue 2/14/17	Tue 2/14/17	153																										
153	6.2.13	Review	3 wks	152	Tue 2/14/17	Tue 3/7/17	154																										
154	6.2.14	EPA Approval of Final Design and RAWP	0 wks	153	Tue 3/7/17	Tue 3/7/17																											
155																																	
156	7	In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	148 wks		Mon 5/30/16	Fri 3/29/19																											
157	7.1	Pre-Design Investigation & Treatability Test Workplan	9 wks	15	Mon 5/30/16	Fri 7/29/16	158																										
158	7.2	Beazer Submit Pre-Design Investigation & Treatability Test WP	0 wks	157	Fri 7/29/16	Fri 7/29/16	159																										
159	7.3	Review and Approval	8 wks	158	Mon 8/1/16	Fri 9/23/16	160																										
160	7.4	Conduct Pre-Design Investigation & Treatability Test	34 wks	159	Mon 9/26/16	Fri 5/19/17	161																										
161	7.5	Pilot Test Workplan	12 wks	160	Mon 5/22/17	Fri 8/11/17	162																										
162	7.6	Beazer Submit Pilot Test Workplan	0 wks	161	Fri 8/11/17	Fri 8/11/17	163																										
163	7.7	Review and Approval	8 wks	162	Mon 8/14/17	Fri 10/6/17	164																										
164	7.8	Conduct Pilot Test	13 wks	163	Mon 10/9/17	Fri 1/5/18	165																										
165	7.9	Preliminary Design	13 wks	164	Mon 1/8/18	Fri 4/6/18	166																										
166	7.10	Submit Preliminary Design	0 wks	165	Fri 4/6/18	Fri 4/6/18	167																										
167	7.11	Review and Comment	10 wks	166	Mon 4/9/18	Fri 6/15/18	168																										
168	7.12	Pre-Final Design	13 wks	167	Mon 6/18/18	Fri 9/14/18	169																										
169	7.13	Review and Comment	10 wks	168	Mon 9/17/18	Fri 11/23/18	170																										
170	7.14	Final Design	6 wks	169	Mon 11/26/18	Fri 1/4/19	171																										
171	7.15	Review and Approval	4 wks	170	Mon 1/7/19	Fri 2/1/19	172																										
172	7.16	EPA Approval of Final Design	0 wks	171	Fri 2/1/19	Fri 2/1/19	173																										
173	7.17	Prepare RAWP	8 wks	172	Mon 2/4/19	Fri 3/29/19	174																										
174	7.18	Submit RAWP	0 wks	173	Fri 3/29/19	Fri 3/29/19																											
175																																	
176	8	Other Engineered Components: DESIGN TRACK #5	87 wks		Mon 4/18/16	Fri 12/15/17																											
177	8.1	Pre-Design Work Plan	6 wks		Mon 4/18/16	Fri 5/27/16	178																										
178	8.2	Submit Pre-Design Work Plan	0 wks	177	Fri 5/27/16	Fri 5/27/16	179																										
179	8.3	Review and Approval	6 wks	178	Mon 5/30/16	Fri 7/8/16	180																										
180	8.4	EPA Approval of Pre-Design Work Plan	0 wks	179	Fri 7/8/16	Fri 7/8/16	181																										
181	8.5	Pre-Design Investigation	26 wks	180	Mon 7/11/16	Fri 1/6/17	182																										
182	8.6	Preliminary Design	6 wks	181	Mon 1/9/17	Fri 2/17/17	183																										
183	8.7	Submit Preliminary Design	0 wks	182	Fri 2/17/17	Fri 2/17/17	184																										
184	8.8	Review and Comment	6 wks	183	Mon 2/20/17	Fri 3/31/17	185																										
185	8.9	Pre-Final Design	13 wks	184	Mon 4/3/17	Fri 6/30/17	186																										
186	8.10	Review and Comment	6 wks	185	Mon 7/3/17	Fri 8/11/17	187																										
187	8.11	Final Design	6 wks	186	Mon 8/14/17	Fri 9/22/17	188																										
188	8.12	Review	4 wks	187	Mon 9/25/17	Fri 10/20/17	189																										

Red text used for current tasks

Task  Milestone 

Summary 

