



July 8, 2015

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: June 2015 Monthly Progress Report**

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), attached is the June 2015 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: Rusty Kestle, EPA  
Kelsey Helton, FDEP  
John Mousa, ACEPD  
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

**June 2015**  
**MONTHLY PROGRESS REPORT**  
**Cabot/Koppers Superfund Site**  
**Gainesville, Florida**

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**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: 2.75 gallons of NAPL were removed from Upper Hawthorn wells during the past month (2 recovery events). A total of 596.41 gallons have been removed since the start of the NAPL recovery program on June 19, 2004. Table 1 provides details of the NAPL recovery volumes by well and date.
- In addition, NAPL was removed from 25 temporary injection points (TIPs) installed in the Former Process Area as part of the In-Situ Geochemical Stabilization (ISGS) program (Table 2). Two NAPL recovery events were conducted during the month, resulting in a total of 99.1 gallons removed.
- NAPL was removed from five Upper Hawthorn recovery wells installed in the Former Process Area as part of the ISGS program (Table 3). Two NAPL recovery events were conducted during the month, resulting in 25.7 gallons removed.
- A total of 3,609,948 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 720 hours). The average recovery rate for the month was approximately 83.56 gallons per minute (gpm). The recovery for each component is listed below.
  - Surficial Aquifer
    - Perimeter Extraction Wells: 570,444 gallons
    - Former North Lagoon Drain: 459,760 gallons
    - Former Drip Track Drain: 74,980 gallons
    - Former Process Area Drain: 458,830 gallons
    - Former South Lagoon Drain: 419,460 gallons
  - Upper Floridan Extraction Wells
    - FW-6: 29,526 gallons
    - FW-21B: 205,480 gallons
    - FW-31BE: 931,710 gallons
    - FW-32BE: 459,758 gallons

Approximately 362.85 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 2,475,000 gallons. The remaining portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former South Lagoon and Former Process groundwater drain pumps were turned off for approximately 7 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 8, 2015.
- Five-Year Review Site Kickoff Meeting June 9, 2015.
- 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).
- At drip track replaced tubing, cleaned pump and replaced flow meter.
- Cleaned EW-16 flow meter and flushed lines.
- Rebuilt plant transfer and former process area pumps.
- Replaced EW-14 pump and foot valve.
- Replaced FW-6 compressor belt and check valve.
- Replaced EW-10 fittings.
- Repaired KIFCO reel.
- Irrigation Breakthrough sampling on June 2, 2015.
- TSE Sampling on June 2, 2015.
- Carbon A/C Sampling on June 23, 2015.
- Stormwater Sampling on June 23, 2015.
- On-property irrigation using treated groundwater from FW-6, FW-21B, FW-31BE, and FW-32BE.

### **4. Upcoming Actions:**

- Full-Scale ISGS injections starting July 8.
- 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.
- Third quarter sampling event: August 16 - 21, 2015.

### **5. Schedule Status:**

- The current remedial design schedule is attached.

### **6. Plan/Schedule Modifications:**

- Minor modifications were made to the project schedule.

### **7. Community Involvement:**

- Tetra Tech's Community Coordinator has been in touch with many residents and property owners in the Stephen Foster neighborhood, and has been working closely with the city's community coordinators for the Stephen Foster soil replacement work.
- Future community involvement activities will be coordinated with EPA.

**Table 1. DNAPL Recovery - Hawthorn Group Monitoring Wells**

Well ID	Total Last Month (gal) (2 events) May 2015	DNAPL Volume (gal) 6/11/2015	DNAPL Volume (gal) 6/26/2015	Total This Month (gal) June 2015
HG-9S	0	Stain	ND	0
HG-10S	0	Stain	Stain	0
HG-10D	0	Stain	Stain	0
HG-11S	0.7	0.5	0.5	1
HG-12S	0.6	0.5	0.4	0.9
HG-12D	0	ND	ND	0
HG-15S	0.5	0.3	0.25	0.55
HG-16S	0	0.2	0.1	0.3
HG-16D	0	Stain	Stain	0
MW-22B	0	Stain	ND	0
Total	1.8	1.5	1.25	2.75
Cumulative Total	593.66			596.41

ND - No DNAPL Detected

**Table 2. DNAPL Recovery Temporary Injection Points (TIPs)**

Well ID	Total Last Month (gal) (2 events) May 2015	DNAPL Volume (gal) 6/3/2015	DNAPL Volume (gal) 6/19/2015	Total This Month (gal) May 2015
220N 180E	3.9	1.9	2.2	4.1
280N 380E	6.3	2.4	2.6	5
300N 180E	8.8	4.5	4.5	9
300N 420E	6.5	3.2	3.6	6.8
320N 220E	5.3	2.7	2.7	5.4
320N 300E	5.8	2.8	3	5.8
340N 340E	10.1	5.3	5.2	10.5
360N 280E	7.1	3.4	3.4	6.8
380N 340E	9.8	4.6	4.8	9.4
400N 380E	3.2	1.6	1.1	2.7
460N 340E	3.3	1.6	1.6	3.2
420N 340E *	5.9	2.8	2	4.8
220N 340E	2.1	1.0	1.1	2.1
240N 380E	3	1.5	1.6	3.1
340N 180E	1.3	0.7	0.7	1.4
320N 140E	1.1	0.4	0.6	1
300N 260E	2.1	1.1	1.3	2.4
360N 140E	0.5	0.2	0.2	0.4
400N 140E	0.6	0.3	0.2	0.5
200N 220E	1.4	0.7	0.3	1
280N 220E	2	0.9	0.6	1.5
360N 220E	2.6	1.3	0.9	2.2
280N 300E	2.9	1.5	1.5	3
360N 380E	6.5	3.3	3.1	6.4
507N 260E	0	Trace	Trace	0
Drip Track	0.9	0.3	0.3	0.6
Total	103			99.1

NP - Not Pumped

\* Inside ISGS Pilot Test Area

**Table 3. DNAPL ISGS Recovery Data - DNAPL Recovery Wells**

Well ID	Total Last Month (gal) (2 events) May 2015	DNAPL Volume (gal) 6/10/2015	DNAPL Volume (gal) 6/24/2015	Total This Month (gal) May 2015
M-38BE	NR	NR	NR	NR
M-39BE	NR	NR	NR	NR
M-40BE	NR	NR	NR	NR
M-41BE	NR	NR	NR	NR
M-42BE	NR	NR	NR	NR
HG-36SE *	3.2	1.5	1.4	2.9
HG-37SE	3.7	1.7	1.8	3.5
HG-38SE	9.4	4.7	4.6	9.3
HG-39SE	5.6	2.7	2.6	5.3
HG-40SE	4.5	2.4	2.3	4.7
Total	26.4			25.7

NR - No Recovery

\* Inside ISGS Pilot Test Area







GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2013				2014				2015				2016				2017				2018							
							tr 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	Qtr 1	Qtr 2	Qtr 3	Qtr 4			
128	6.1.14	Submit Final Design and RAWP	0 wks	127	Mon 4/20/15	Mon 4/20/15																												
129	6.1.15	Review	0.4 wks	128	Tue 4/21/15	Wed 4/22/15																												
130	6.1.16	EPA Approval of Final Design and RAWP	0 wks	129	Wed 4/22/15	Wed 4/22/15																												
131	6.1.17	Implementation of Process-Area ISGS Injections	12 wks	130FS+7 wks	Tue 7/7/15	Mon 9/28/15																												
132	6.1.18	Prepare Implementation Report	12 wks	131	Tue 9/29/15	Mon 12/21/15																												
133	6.1.19	Submit Implementation Report	0 wks	132	Mon 12/21/15	Mon 12/21/15																												
134	6.1.20	Post-Injection Effectiveness Monitoring	52 wks	131	Tue 9/29/15	Mon 9/26/16																												
135	6.2	<b>South Lagoon</b>	<b>88.2 wks</b>		<b>Mon 9/8/14</b>	<b>Mon 5/16/16</b>	Summary																											
136	6.2.1	Preliminary Design & Design Investigation Work Plan	32.2 wks		Mon 9/8/14	Mon 4/20/15																												
137	6.2.2	Submit Preliminary Design & Design Investigation Work Plan	0 wks	136	Mon 4/20/15	Mon 4/20/15																												
138	6.2.3	Review and Approval Preliminary Design & Design Investigation Work Plan	14 wks	137	Tue 4/21/15	Mon 7/27/15																												
139	6.2.4	Installation of Borings and DNAPL Recovery Wells	20 wks	138	Tue 7/28/15	Mon 12/14/15																												
140	6.2.5	Collection of Baseline Data	17 wks	139	Tue 12/15/15	Mon 4/11/16																												
141	6.2.6	Pre-Final Design	12 wks	139	Tue 12/15/15	Mon 3/7/16																												
142	6.2.7	Submit Pre-Final Design	0 wks	141	Mon 3/7/16	Mon 3/7/16																												
143	6.2.8	Review and Comment	3 wks	142	Tue 3/8/16	Mon 3/28/16																												
144	6.2.9	Final Design and RAWP	4 wks	143	Tue 3/29/16	Mon 4/25/16																												
145	6.2.10	Submit Final Design and RAWP	0 wks	144	Mon 4/25/16	Mon 4/25/16																												
146	6.2.11	Review	3 wks	145	Tue 4/26/16	Mon 5/16/16																												
147	6.2.12	EPA Approval of Final Design and RAWP	0 wks	146	Mon 5/16/16	Mon 5/16/16																												
148																																		
149	7	<b>In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4</b>	<b>152 wks</b>		<b>Mon 8/31/15</b>	<b>Fri 7/27/18</b>	Summary																											
150	7.1	Pre-Design Investigation & Treatability Test Workplan	13 wks	15	Mon 8/31/15	Fri 11/27/15																												
151	7.2	Beazer Submit Pre-Design Investigation & Treatability Test WP	0 wks	150	Fri 11/27/15	Fri 11/27/15																												
152	7.3	Review and Approval	8 wks	151	Mon 11/30/15	Fri 1/22/16																												
153	7.4	Conduct Pre-Design Investigation & Treatability Test	34 wks	152	Mon 1/25/16	Fri 9/16/16																												
154	7.5	Pilot Test Workplan	12 wks	153	Mon 9/19/16	Fri 12/9/16																												
155	7.6	Beazer Submit Pilot Test Workplan	0 wks	154	Fri 12/9/16	Fri 12/9/16																												
156	7.7	Review and Approval	8 wks	155	Mon 12/12/16	Fri 2/3/17																												
157	7.8	Conduct Pilot Test	13 wks	156	Mon 2/6/17	Fri 5/5/17																												
158	7.9	Preliminary Design	13 wks	157	Mon 5/8/17	Fri 8/4/17																												
159	7.10	Submit Preliminary Design	0 wks	158	Fri 8/4/17	Fri 8/4/17																												
160	7.11	Review and Comment	10 wks	159	Mon 8/7/17	Fri 10/13/17																												
161	7.12	Pre-Final Design	13 wks	160	Mon 10/16/17	Fri 1/12/18																												
162	7.13	Review and Comment	10 wks	161	Mon 1/15/18	Fri 3/23/18																												
163	7.14	Final Design	6 wks	162	Mon 3/26/18	Fri 5/4/18																												
164	7.15	Review and Approval	4 wks	163	Mon 5/7/18	Fri 6/1/18																												
165	7.16	EPA Approval of Final Design	0 wks	164	Fri 6/1/18	Fri 6/1/18																												
166	7.17	Prepare RAWP	8 wks	165	Mon 6/4/18	Fri 7/27/18																												
167	7.18	Submit RAWP	0 wks	166	Fri 7/27/18	Fri 7/27/18																												
168																																		
169	8	<b>Other Engineered Components: DESIGN TRACK #5</b>	<b>87 wks</b>		<b>Mon 1/4/16</b>	<b>Fri 9/1/17</b>	Summary																											
170	8.1	Pre-Design Work Plan	6 wks		Mon 1/4/16	Fri 2/12/16																												
171	8.2	Submit Pre-Design Work Plan	0 wks	170	Fri 2/12/16	Fri 2/12/16																												
172	8.3	Review and Approval	6 wks	171	Mon 2/15/16	Fri 3/25/16																												
173	8.4	EPA Approval of Pre-Design Work Plan	0 wks	172	Fri 3/25/16	Fri 3/25/16																												
174	8.5	Pre-Design Investigation	26 wks	173	Mon 3/28/16	Fri 9/23/16																												
175	8.6	Preliminary Design	6 wks	174	Mon 9/26/16	Fri 11/4/16																												
176	8.7	Submit Preliminary Design	0 wks	175	Fri 11/4/16	Fri 11/4/16																												
177	8.8	Review and Comment	6 wks	176	Mon 11/7/16	Fri 12/16/16																												
178	8.9	Pre-Final Design	13 wks	177	Mon 12/19/16	Fri 3/17/17																												
179	8.10	Review and Comment	6 wks	178	Mon 3/20/17	Fri 4/28/17																												
180	8.11	Final Design	6 wks	179	Mon 5/1/17	Fri 6/9/17																												
181	8.12	Review	4 wks	180	Mon 6/12/17	Fri 7/7/17																												
182	8.13	EPA Approval of Final Design	0 wks	181	Fri 7/7/17	Fri 7/7/17																												
183	8.14	Prepare RAWP	8 wks	182	Mon 7/10/17	Fri 9/1/17																												
184	8.15	Submit RAWP	0 wks	183	Fri 9/1/17	Fri 9/1/17																												
185																																		
186	9	<b>Institutional Control</b>	<b>158.8 wks</b>		<b>Tue 7/9/13</b>	<b>Fri 7/22/16</b>	Summary																											
187	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13	Fri 8/23/13																												
188	9.2	Submit ICIAP	0 wks	187	Fri 8/23/13	Fri 8/23/13																												
189	9.3	Review	12.5 wks	188	Mon 8/26/13	Wed 11/20/13																												
190	9.4	Beazer Respond to Comments	18 wks	189	Mon 4/6/15	Fri 8/7/15																												

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	tr 4	2013				2014				2015				2016				2017				2018			
								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
191	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	190	Fri 8/7/15	Fri 8/7/15																									
192	9.6	Review	3 wks	191	Mon 8/10/15	Fri 8/28/15																									
193	9.7	EPA and FDEP Approval of ICIAP	0 wks	192	Fri 8/28/15	Fri 8/28/15																									
194	<b>9.8</b>	<b>Implement Beazer-Property Restrictive Covenant</b>	<b>47 wks</b>		<b>Mon 8/31/15</b>	<b>Fri 7/22/16</b>																									
195	9.8.1	Draft Proprietary Controls Package	13 wks	193	Mon 8/31/15	Fri 11/27/15																									
196	9.8.2	Submit Draft Proprietary Controls Package	0 wks	195	Fri 11/27/15	Fri 11/27/15																									
197	9.8.3	Review and Updating	8 wks	196	Mon 11/30/15	Fri 1/22/16																									
198	9.8.4	Update Title Search and Prepare Public Notice	8 wks	197	Mon 1/25/16	Fri 3/18/16																									
199	9.8.5	Beazer Publish Public Notice	0 wks	198	Fri 3/18/16	Fri 3/18/16																									
200	9.8.6	Public Comment Period	4.4 wks	199	Mon 3/21/16	Tue 4/19/16																									
201	9.8.7	Address Comments and Execute Restrictive Covenant	5 wks	200	Wed 4/20/16	Tue 5/24/16																									
202	9.8.8	Record Restrictive Covenant at Alacha County Clerk of Court	0 wks	201	Tue 5/24/16	Tue 5/24/16																									
203	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	202	Wed 5/25/16	Fri 7/22/16																									
204	9.8.10	Submit Final Proprietary Controls Package	0 wks	203	Fri 7/22/16	Fri 7/22/16																									