



April 11, 2017

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: **March 2017 Monthly Progress Report**

Dear Mr. Kestle:

On behalf of Beazer East, Inc. (Beazer), attached is the March 2017 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, 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

MARCH 2017
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. Three NAPL recovery events were conducted during the month for the monitoring wells and two were conducted for the TIPs. No recovery took place in the Former Process Area (or the Former Drip Track) during or immediately after recent ISGS injections.
- Table 1 provides DNAPL collection data for wells at the Former North Lagoon. There are no monitored TIPs outside the Former Process Area and Former South Lagoon. Process Area and South Lagoon recovery data will be included in forthcoming performance monitoring submittals.
- A total of 3,824,534 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 85.7 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 338,611 gallons
 - Former North Lagoon Drain: 459,110 gallons
 - Former Drip Track Drain: 465,270 gallons
 - Former Process Area Drain: 491,040 gallons *
 - Former South Lagoon Drain: 478,080 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 24,192 gallons
 - FW-21B: 148,394 gallons
 - FW-31BE: 957,020 gallons
 - FW-32BE: 462,817 gallons

* The Former Process Area Drain flow meter was reading (347,150) low due to an error with the flow meter. By monitoring the plant influent meter the flow from the well was estimated at 11 gpm or approximately 491,040 gallons for the month.

Approximately 409.9 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 2,331,000 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 7 hours to pump and clean clarifiers and to treat backwash water. The pump in well FW-6 was replaced on March 19, 2017.

Perimeter wells EW-10 and EW-14 are down due to low water levels.

3. Plans, Reports, Deliverables and Procedures Completed:

- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) March 15, 2017.
- 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). Flushed chemical lines. Calibrated plant flow meter. Replaced caustic line.
- Irrigation breakthrough sampling March 28, 2017.
- Effluent TOC Sampling March 13, 2017.
- FW-6 pump replaced on March 19, 2017. FW-6 flow meter cleaned and is scheduled to be replaced.
- Maintenance completed on FW-6 compressor.
- On-property irrigation using treated groundwater from FW-21B, FW-31BE, and FW-32BE.
- Supplemental ISGS treatment injections in the Process Area conducted February 15 - March 4, 2017.

4. Upcoming Actions:

- 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.
- Replace flow meter at FW-6.
- Second quarter sampling event May 8 – May 12, 2017.

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: March 2017

Date	Well	Volume (gal)
3/6/2017	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
3/19/2017	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.3
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
3/30/2017	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	0.4
	HG-16D	Stain
	MW-22B	Stain

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2012		2013		2014		2015		2016		2017		2018		2019		2020		H1
								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	201																			
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	164,95																			
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	
								H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2			
54	4.6.6	Final Design and RAWP	19.6 wks		Fri 2/21/14	Tue 7/8/14																			
55	4.6.6.1	Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks		Fri 2/21/14	Fri 2/21/14	56																		
56	4.6.6.2	Final Design and RAWP Approval: Blocks G-H	1 wk	55	Fri 2/21/14	Thu 2/27/14																			
57	4.6.6.3	Submit Pre-Final Designs & RAWP: Blocks E&F	0 wks		Fri 3/7/14	Fri 3/7/14	58																		
58	4.6.6.4	Final Design and RAWP Approval: Blocks E&F	1 day	57	Fri 3/7/14	Fri 3/7/14																			
59	4.6.6.5	Submit Pre-Final Designs & RAWP: Block D	0 wks		Thu 4/3/14	Thu 4/3/14	60,61FF+4 wks																		
60	4.6.6.6	Final Design and RAWP Approval: Block D	2 days	59	Thu 4/3/14	Fri 4/4/14																			
61	4.6.6.7	Submit Pre-Final Designs & RAWP: Block C	0 wks	59FF+4 wks	Wed 4/30/14	Wed 4/30/14	62,63FF+3.1 wks																		
62	4.6.6.8	Final Design and RAWP Approval: Block C	0 wks	61	Wed 4/30/14	Wed 4/30/14																			
63	4.6.6.9	Submit Pre-Final Designs & RAWP: Block B	0 wks	61FF+3.1 wk	Thu 5/22/14	Thu 5/22/14	64,65FF+3 wks																		
64	6.6.10	Final Design and RAWP Approval: Block B	0.6 wks	63	Thu 5/22/14	Tue 5/27/14																			
65	6.6.11	Submit Pre-Final Designs & RAWP: Block A	0 wks	63FF+3 wks	Thu 6/12/14	Thu 6/12/14	66,67FF+3.5 wks																		
66	6.6.12	Final Design and RAWP Approval: Block A	0.6 wks	65	Thu 6/12/14	Tue 6/17/14																			
67	6.6.13	Submit Pre-Final Designs & RAWP: Block I	0 wks	65FF+3.5 wk	Mon 7/7/14	Mon 7/7/14	68																		
68	6.6.14	Final Design and RAWP Approval: Block I	0.2 wks	67	Tue 7/8/14	Tue 7/8/14																			
69	4.7	Sampling for Refinement of Remediation Parcels (Feb 2014)	24.8 wks		Wed 2/19/14	Tue 8/12/14																			
70	4.7.1	Beazer & EPA Sampling	0.2 wks		Wed 2/19/14	Wed 2/19/14	71																		
71	4.7.2	Analysis and Validation	7.2 wks	70	Thu 2/20/14	Thu 4/10/14	72																		
72	4.7.3	Data Summary Report Addendum	16 wks	71	Fri 4/11/14	Thu 7/31/14	73																		
73	4.7.4	Beazer Submit Report Addendum	0 wks	72	Thu 7/31/14	Thu 7/31/14	74																		
74	4.7.5	Call to discuss Report Addendum	0 wks	73	Tue 8/12/14	Tue 8/12/14																			
75	4.8	Blocks J & K Remediation Design	12.2 wks		Mon 6/2/14	Mon 8/25/14																			
76	4.8.1	Access Agreements for Design	2 wks		Mon 6/2/14	Fri 6/13/14	77																		
77	4.8.2	Surveying & Interviews	5 wks	76	Mon 6/16/14	Fri 7/18/14	78SS+1 wk																		
78	4.8.3	Preliminary Design	5 wks	77SS+1 wk	Mon 6/23/14	Fri 7/25/14	79SS+1 wk																		
79	4.8.4	Pre-Final Design and Access	7 wks	78SS+1 wk	Mon 6/30/14	Fri 8/15/14	82																		
80	4.8.5	RAWP: Block J	0 wks		Fri 7/25/14	Fri 7/25/14	81																		
81	4.8.6	Final Design & RAWP Approval: Block J	1 wk	80	Fri 7/25/14	Thu 7/31/14																			
82	4.8.7	RAWP: Block K	0 days	79	Wed 8/20/14	Wed 8/20/14	83																		
83	4.8.8	Final Design and RAWP Approval: Block K	4 days	82	Wed 8/20/14	Mon 8/25/14																			
84	4.9	Community Meetings	16.4 wks		Fri 10/25/13	Tue 2/18/14																			
85	4.9.1	Community Meeting: Landscaping Workshop - City (Oct 2013)	2 days		Fri 10/25/13	Mon 10/28/13																			
86	4.9.2	Community Meeting (Jan 18 2014)	2 days		Fri 1/17/14	Mon 1/20/14																			
87	4.9.3	Community Meeting (Feb 18 2014)	0 wks		Tue 2/18/14	Tue 2/18/14																			
88	4.10	Implementation of Remedial Action	39 wks		Mon 2/17/14	Fri 11/14/14	89,90																		
89	4.11	Pre-Final Inspection	0 wks	88	Tue 11/18/14	Tue 11/18/14																			
90	4.12	Prepare Implementation Report	36.4 wks	88	Mon 11/17/14	Tue 7/28/15	91																		
91	4.13	Submit Implementation Report	0 wks	90	Tue 7/28/15	Tue 7/28/15																			
92	4.14	EPA Approval of Implementation Report	0 wks		Thu 8/27/15	Thu 8/27/15																			
93																									
94	5	Cutoff Wall and Stormwater Controls: DESIGN TRACK #2	144.9 wks		Wed 12/17/14	Tue 9/26/17																			
95	5.1	Pre-Design Work Plan	21.2 wks	15	Wed 12/17/14	Wed 5/13/15	96																		
96	5.2	Submit Pre-Design Work Plan	0 wks	95	Wed 5/13/15	Wed 5/13/15	97																		
97	5.3	Review and Comment	10 wks	96	Thu 5/14/15	Wed 7/22/15	98FS+5.2 wks																		
98	5.4	Submit Response to Comments and Revised Plan	0 wks	97FS+5.2 wk	Thu 8/27/15	Thu 8/27/15	99FS+0.2 wks																		
99	5.5	EPA Approval of Pre-Design Work Plan	0 wks	98FS+0.2 wk	Fri 8/28/15	Fri 8/28/15	101																		
100	5.6	Pre-Design Investigation	38 wks		Mon 8/31/15	Fri 5/20/16																			
101	5.6.1	Planning & Preparation	4 wks	99	Mon 8/31/15	Fri 9/25/15	102																		
102	5.6.2	Field Work	11 wks	101	Mon 9/28/15	Fri 12/11/15	103FS-3 wks																		
103	5.6.3	Lab Work	26 wks	102FS-3 wks	Mon 11/23/15	Fri 5/20/16	104FS-2 wks																		
104	5.7	Preliminary Design	8.3 wks	103FS-2 wks	Mon 5/9/16	Tue 7/5/16	105																		
105	5.8	Submit Preliminary Design	0 wks	104	Tue 7/5/16	Tue 7/5/16	106																		
106	5.9	Review and Comment	24 wks	105	Tue 7/5/16	Tue 12/20/16	107																		

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2012		2013		2014		2015		2016		2017		2018		2019		2020	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
107	5.10	Pre-Final Design	28 wks	106	Tue 12/20/16	Tue 7/4/17	108																		
108	5.11	Review and Comment	5 wks	107	Tue 7/4/17	Tue 8/8/17	109																		
109	5.12	Final Design	4 wks	108	Tue 8/8/17	Tue 9/5/17	110																		
110	5.13	Review	3 wks	109	Tue 9/5/17	Tue 9/26/17	111																		
111	5.14	EPA Approval of Final Design	0 wks	110	Tue 9/26/17	Tue 9/26/17	112FS-4 wks																		
112	5.15	Prepare RAWP	4 wks	111FS-4 wks	Tue 8/29/17	Tue 9/26/17	113																		
113	5.16	Submit RAWP	0 wks	112	Tue 9/26/17	Tue 9/26/17																			
114																									
115		6 In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3	240.3 wks		Thu 2/7/13	Fri 9/15/17																			
116	6.1	Process Area	213.4 wks		Thu 2/7/13	Fri 3/10/17																			
117	6.1.1	EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks		Thu 2/7/13	Thu 2/7/13																			
118	6.1.2	Preliminary Design (included in Demonstration Work Plan)	0 wks		Thu 2/7/13	Thu 2/7/13																			
119	6.1.3	Characterization and DNAPL Recovery (began 2012)	32 wks		Thu 2/7/13	Wed 9/18/13	120																		
120	6.1.4	Characterization Report and Pilot Test Plan	11.8 wks	119	Thu 9/19/13	Tue 12/10/13	121																		
121	6.1.5	Submit Characterization Report and Pilot Test Plan	0 wks	120	Tue 12/10/13	Tue 12/10/13	122																		
122	6.1.6	Review and Approval of Pilot Test Plan	10 wks	121	Wed 12/11/13	Tue 2/18/14	124																		
123	6.1.7	Technical Working Group Meeting	0 wks		Wed 12/18/13	Wed 12/18/13																			
124	6.1.8	Pilot Injection Testing	15 wks	122	Mon 3/17/14	Fri 6/27/14																			
125	6.1.8.1	Pre-Pilot Testing & Chemical Delivery	1 wk		Mon 3/17/14	Fri 3/21/14	126																		
126	6.1.8.2	Pilot Injections	3 wks	125	Mon 3/24/14	Fri 4/11/14	129,127FS+10 wks																		
127	6.1.8.3	Borings in Injection Area	1 wk	126FS+10 wks	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	6.1.21	Submit Phase II Performance Monitoring Report	0 wks		Mon 8/1/16	Mon 8/1/16	141																		
141	6.1.22	Review	20.4 wks	140	Mon 8/1/16	Tue 12/20/16	142																		
142	6.1.23	Submit Revised Phase II Performance Monitoring Report	0 wks	141	Tue 12/20/16	Tue 12/20/16	143																		
143	6.1.24	Review	7.6 wks	142	Wed 12/21/16	Fri 2/10/17	144																		
144	6.1.25	EPA Approval of Phase II Monitoring Report and Additional Treatment	0 wks	143	Fri 2/10/17	Fri 2/10/17	145																		
145	6.1.26	Follow-Up ISGS Injections	4 wks	144	Mon 2/13/17	Fri 3/10/17																			
146																									
147	6.2	South Lagoon	157.9 wks		Mon 9/8/14	Fri 9/15/17																			
148	6.2.1	Preliminary Design & Design Investigation Work Plan	32.2 wks		Mon 9/8/14	Mon 4/20/15	149																		
149	6.2.2	Submit Preliminary Design & Design Investigation Work Plan	0 wks	148	Mon 4/20/15	Mon 4/20/15	150																		
150	6.2.3	Review of Preliminary Design & Design Investigation Work Plan	45 wks	149	Tue 4/21/15	Mon 2/29/16	151																		
151	6.2.4	Prepare Revised Preliminary Design & Design Investigation Work Plan	3.1 wks	150	Tue 3/1/16	Tue 3/22/16	152																		
152	6.2.5	Review and Approval of Work Plan	24.6 wks	151	Tue 3/22/16	Fri 9/9/16	153																		
153	6.2.6	Installation of Borings and DNAPL Recovery Wells	37 wks	152	Fri 9/9/16	Fri 5/26/17	154,155																		
154	6.2.7	Collection of Baseline Data	13 wks	153	Fri 5/26/17	Fri 8/25/17																			
155	6.2.8	Pre-Final Design	6 wks	153	Fri 5/26/17	Fri 7/7/17	156																		
156	6.2.9	Submit Pre-Final Design	0 wks	155	Fri 7/7/17	Fri 7/7/17	157																		
157	6.2.10	Review and Comment	3 wks	156	Fri 7/7/17	Fri 7/28/17	158																		

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2012		2013		2014		2015		2016		2017		2018		2019		2020		H1
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
158	6.2.11	Final Design and RAWP	4 wks	157	Fri 7/28/17	Fri 8/25/17	159																			
159	6.2.12	Submit Final Design and RAWP	0 wks	158	Fri 8/25/17	Fri 8/25/17	160																			
160	6.2.13	Review	3 wks	159	Fri 8/25/17	Fri 9/15/17	161																			
161	6.2.14	EPA Approval of Final Design and RAWP	0 wks	160	Fri 9/15/17	Fri 9/15/17																				
162																										
163		7 In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	147 wks		Fri 5/5/17	Thu 2/27/20																				
164	7.1	Pre-Design Investigation & Treatability Test Workplan	8 wks	15	Fri 5/5/17	Thu 6/29/17	165																			
165	7.2	Beazer Submit Pre-Design Investigation & Treatability Test	0 wks	164	Thu 6/29/17	Thu 6/29/17	166																			
166	7.3	Review and Approval	8 wks	165	Fri 6/30/17	Thu 8/24/17	167																			
167	7.4	Conduct Pre-Design Investigation & Treatability Test	34 wks	166	Fri 8/25/17	Thu 4/19/18	168																			
168	7.5	Pilot Test Workplan	12 wks	167	Fri 4/20/18	Thu 7/12/18	169																			
169	7.6	Beazer Submit Pilot Test Workplan	0 wks	168	Thu 7/12/18	Thu 7/12/18	170																			
170	7.7	Review and Approval	8 wks	169	Fri 7/13/18	Thu 9/6/18	171																			
171	7.8	Conduct Pilot Test	13 wks	170	Fri 9/7/18	Thu 12/6/18	172																			
172	7.9	Preliminary Design	13 wks	171	Fri 12/7/18	Thu 3/7/19	173																			
173	7.10	Submit Preliminary Design	0 wks	172	Thu 3/7/19	Thu 3/7/19	174																			
174	7.11	Review and Comment	10 wks	173	Fri 3/8/19	Thu 5/16/19	175																			
175	7.12	Pre-Final Design	13 wks	174	Fri 5/17/19	Thu 8/15/19	176																			
176	7.13	Review and Comment	10 wks	175	Fri 8/16/19	Thu 10/24/19	177																			
177	7.14	Final Design	6 wks	176	Fri 10/25/19	Thu 12/5/19	178																			
178	7.15	Review and Approval	4 wks	177	Fri 12/6/19	Thu 1/2/20	179																			
179	7.16	EPA Approval of Final Design	0 wks	178	Thu 1/2/20	Thu 1/2/20	180																			
180	7.17	Prepare RAWP	8 wks	179	Fri 1/3/20	Thu 2/27/20	181																			
181	7.18	Submit RAWP	0 wks	180	Thu 2/27/20	Thu 2/27/20																				
182																										
183		8 Other Engineered Components: DESIGN TRACK #5	87 wks		Fri 5/5/17	Thu 1/3/19																				
184	8.1	Pre-Design Work Plan	6 wks		Fri 5/5/17	Thu 6/15/17	185																			
185	8.2	Submit Pre-Design Work Plan	0 wks	184	Thu 6/15/17	Thu 6/15/17	186																			
186	8.3	Review and Approval	6 wks	185	Fri 6/16/17	Thu 7/27/17	187																			
187	8.4	EPA Approval of Pre-Design Work Plan	0 wks	186	Thu 7/27/17	Thu 7/27/17	188																			
188	8.5	Pre-Design Investigation	26 wks	187	Fri 7/28/17	Thu 1/25/18	189																			
189	8.6	Preliminary Design	6 wks	188	Fri 1/26/18	Thu 3/8/18	190																			
190	8.7	Submit Preliminary Design	0 wks	189	Thu 3/8/18	Thu 3/8/18	191																			
191	8.8	Review and Comment	6 wks	190	Fri 3/9/18	Thu 4/19/18	192																			
192	8.9	Pre-Final Design	13 wks	191	Fri 4/20/18	Thu 7/19/18	193																			
193	8.10	Review and Comment	6 wks	192	Fri 7/20/18	Thu 8/30/18	194																			
194	8.11	Final Design	6 wks	193	Fri 8/31/18	Thu 10/11/18	195																			
195	8.12	Review	4 wks	194	Fri 10/12/18	Thu 11/8/18	196																			
196	8.13	EPA Approval of Final Design	0 wks	195	Thu 11/8/18	Thu 11/8/18	197																			
197	8.14	Prepare RAWP	8 wks	196	Fri 11/9/18	Thu 1/3/19	198																			
198	8.15	Submit RAWP	0 wks	197	Thu 1/3/19	Thu 1/3/19																				
199																										
200		9 Institutional Control	250.8 wks		Tue 7/9/13	Fri 4/27/18																				
201	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13	Fri 8/23/13	202																			
202	9.2	Submit ICIAP	0 wks	201	Fri 8/23/13	Fri 8/23/13	203																			
203	9.3	Review	12.5 wks	202	Mon 8/26/13	Wed 11/20/13	204																			
204	9.4	Beazer Respond to Comments	110 wks	203	Mon 4/6/15	Fri 5/12/17	205																			
205	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	204	Fri 5/12/17	Fri 5/12/17	206																			
206	9.6	Review	3 wks	205	Mon 5/15/17	Fri 6/2/17	207																			
207	9.7	EPA and FDEP Approval of ICIAP	0 wks	206	Fri 6/2/17	Fri 6/2/17	209																			
208	9.8	Implement Beazer-Property Restrictive Covenant	47 wks		Mon 6/5/17	Fri 4/27/18																				
209	9.8.1	Draft Proprietary Controls Package	13 wks	207	Mon 6/5/17	Fri 9/1/17	210																			
210	9.8.2	Submit Draft Proprietary Controls Package	0 wks	209	Fri 9/1/17	Fri 9/1/17	211																			

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2012		2013		2014		2015		2016		2017		2018		2019		2020	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
211	9.8.3	Review and Updating	8 wks	210	Mon 9/4/17	Fri 10/27/17	212																		
212	9.8.4	Update Title Search and Prepare Public Notice	8 wks	211	Mon 10/30/17	Fri 12/22/17	213																		
213	9.8.5	Beazer Publish Public Notice	0 wks	212	Fri 12/22/17	Fri 12/22/17	214																		
214	9.8.6	Public Comment Period	4.4 wks	213	Mon 12/25/17	Tue 1/23/18	215																		
215	9.8.7	Address Comments and Execute Restrictive Covenant	5 wks	214	Wed 1/24/18	Tue 2/27/18	216																		
216	9.8.8	Record Restrictive Covenant at Alacha County Clerk of C	0 wks	215	Tue 2/27/18	Tue 2/27/18	217																		
217	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	216	Wed 2/28/18	Fri 4/27/18	218																		
218	9.8.10	Submit Final Proprietary Controls Package	0 wks	217	Fri 4/27/18	Fri 4/27/18																			

