



September 11, 2017

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: **August 2017 Monthly Progress Report**

Dear Mr. Miller:

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

AUGUST 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.
- 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 3,916,469 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 701 hours). The average recovery rate for the month was approximately 93.1 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 526,728 gallons
 - Former North Lagoon Drain: 441,090 gallons
 - Former Drip Track Drain: 477,400 gallons
 - Former Process Area Drain: 493,180 gallons
 - Former South Lagoon Drain: 404,570 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 55,035 gallons
 - FW-21B: 152,034 gallons
 - FW-31BE: 924,520 gallons
 - FW-32BE: 441,912 gallons

Approximately 420.7 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 2,357,000 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 5 hours to pump and clean clarifiers and to treat backwash water.

System was down from August 16, 2017 to August 18, 2017 for carbon change out.

The flow meter at FW-6 was replaced on August 24, 2017. Flow from August 1 to August 24 was estimated at 1.3 to 1.4 gpm.

3. Plans, Reports, Deliverables and Procedures Completed:

- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) August 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). Repaired caustic pump, replaced transfer pump, repaired effluent pump, cleaned poly lines, repaired chemical pumps, replace tank float switch replace plant sump discharge pump, replace faulty plant gauges, reprogrammed VFD, investigated feed pump control circuit and calibrated flow meter.
- Irrigation breakthrough sampling August 30, 2017.
- Third quarter sampling event August 2 - 15, 2017.
- Repaired FW-6 compressor.
- Replaced FW-6 flow meter.
- Cleaned EW-16 flow meter.
- Inspected FW-32 pump.
- On-property irrigation using treated groundwater from FW-21B, FW-31BE, and FW-32BE.
- A proposal for ISGS confirmation borings at the Former Process Area was sent on August 11, 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.
- Fourth quarter sampling event December 11-15, 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: Aug 2017

Date	Well	Volume (gal)
8/3/2017	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
8/17/2017	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
8/31/2017	HG-10S	Stain
	HG-10D	Stain
	HG-12S	0.4
	HG-12D	ND
	HG-16S	Stain
	HG-16D	Stain
	MW-22B	Stain
8/8/2017	Drip Track	0.5
8/22/2017	Drip Track	0.4

GAINESVILLE REMEDIAL DESIGN

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

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	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
54	4.6.6	Final Design and RAWP	19.6 wks		Fri 2/21/14																				
55	4.6.6.1	Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks		Fri 2/21/14																				
56	4.6.6.2	Final Design and RAWP Approval: Blocks G-H	1 wk	55	Fri 2/21/14																				
57	4.6.6.3	Submit Pre-Final Designs & RAWP: Blocks E&F	0 wks		Fri 3/7/14																				
58	4.6.6.4	Final Design and RAWP Approval: Blocks E&F	1 day	57	Fri 3/7/14																				
59	4.6.6.5	Submit Pre-Final Designs & RAWP: Block D	0 wks		Thu 4/3/14																				
60	4.6.6.6	Final Design and RAWP Approval: Block D	2 days	59	Thu 4/3/14																				
61	4.6.6.7	Submit Pre-Final Designs & RAWP: Block C	0 wks	59FF+4 wks	Wed 4/30/14																				
62	4.6.6.8	Final Design and RAWP Approval: Block C	0 wks	61	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																				
64	4.6.6.10	Final Design and RAWP Approval: Block B	0.6 wks	63	Thu 5/22/14																				
65	4.6.6.11	Submit Pre-Final Designs & RAWP: Block A	0 wks	63FF+3 wks	Thu 6/12/14																				
66	4.6.6.12	Final Design and RAWP Approval: Block A	0.6 wks	65	Thu 6/12/14																				
67	4.6.6.13	Submit Pre-Final Designs & RAWP: Block I	0 wks	65FF+3.5 wk	Mon 7/7/14																				
68	4.6.6.14	Final Design and RAWP Approval: Block I	0.2 wks	67	Tue 7/8/14																				
69	4.7	Sampling for Refinement of Remediation Parcels (Feb 2014)	24.8 wks		Wed 2/19/14																				
70	4.7.1	Beazer & EPA Sampling	0.2 wks		Wed 2/19/14																				
71	4.7.2	Analysis and Validation	7.2 wks	70	Thu 2/20/14																				
72	4.7.3	Data Summary Report Addendum	16 wks	71	Fri 4/11/14																				
73	4.7.4	Beazer Submit Report Addendum	0 wks	72	Thu 7/31/14																				
74	4.7.5	Call to discuss Report Addendum	0 wks	73	Tue 8/12/14																				
75	4.8	Blocks J & K Remediation Design	12.2 wks		Mon 6/2/14																				
76	4.8.1	Access Agreements for Design	2 wks		Mon 6/2/14																				
77	4.8.2	Surveying & Interviews	5 wks	76	Mon 6/16/14																				
78	4.8.3	Preliminary Design	5 wks	77SS+1 wk	Mon 6/23/14																				
79	4.8.4	Pre-Final Design and Access	7 wks	78SS+1 wk	Mon 6/30/14																				
80	4.8.5	RAWP: Block J	0 wks		Fri 7/25/14																				
81	4.8.6	Final Design & RAWP Approval: Block J	1 wk	80	Fri 7/25/14																				
82	4.8.7	RAWP: Block K	0 days	79	Wed 8/20/14																				
83	4.8.8	Final Design and RAWP Approval: Block K	4 days	82	Wed 8/20/14																				
84	4.9	Community Meetings	16.4 wks		Fri 10/25/13																				
85	4.9.1	Community Meeting: Landscaping Workshop - City (Oct)	2 days		Fri 10/25/13																				
86	4.9.2	Community Meeting (Jan 18 2014)	2 days		Fri 1/17/14																				
87	4.9.3	Community Meeting (Feb 18 2014)	0 wks		Tue 2/18/14																				
88	4.10	Implementation of Remedial Action	39 wks		Mon 2/17/14																				
89	4.11	Pre-Final Inspection	0 wks	88	Tue 11/18/14																				
90	4.12	Prepare Implementation Report	36.4 wks	88	Mon 11/17/14																				
91	4.13	Submit Implementation Report	0 wks	90	Tue 7/28/15																				
92	4.14	EPA Approval of Implementation Report	0 wks		Thu 8/27/15																				
93																									
94	5	Cutoff Wall and Stormwater Controls: DESIGN TRACK #2	157.6 wks		Wed 12/17/14																				
95	5.1	Pre-Design Work Plan	21.2 wks	15	Wed 12/17/14																				
96	5.2	Submit Pre-Design Work Plan	0 wks	95	Wed 5/13/15																				
97	5.3	Review and Comment	10 wks	96	Thu 5/14/15																				
98	5.4	Submit Response to Comments and Revised Plan	0 wks	97FS+5.2 wk	Thu 8/27/15																				
99	5.5	EPA Approval of Pre-Design Work Plan	0 wks	98FS+0.2 wk	Fri 8/28/15																				
100	5.6	Pre-Design Investigation	38 wks		Mon 8/31/15																				
101	5.6.1	Planning & Preparation	4 wks	99	Mon 8/31/15																				
102	5.6.2	Field Work	11 wks	101	Mon 9/28/15																				
103	5.6.3	Lab Work	26 wks	102FS-3 wks	Mon 11/23/15																				
104	5.7	Preliminary Design	8.3 wks	103FS-2 wks	Mon 5/9/16																				
105	5.8	Submit Preliminary Design	0 wks	104	Tue 7/5/16																				
106	5.9	Review and Comment	24 wks	105	Tue 7/5/16																				

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	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
107	5.10	Pre-Final Design	24.2 wks	106	Fri 5/5/17																				
108	5.10.1	Supplemental Design Investigation Work Plan	0 wks		Fri 5/5/17																				
109	5.10.2	Review and Approval	3.1 wks	108	Fri 5/5/17																				
110	5.10.3	Supplemental Design Borings	5 wks	109	Mon 5/29/17																				
111	5.10.4	Design Updates	16 wks	110	Mon 7/3/17																				
112	5.11	Review and Comment	3 wks	107	Mon 10/23/17																				
113	5.12	Final Design	3 wks	112	Mon 11/13/17																				
114	5.13	Review	3 wks	113	Mon 12/4/17																				
115	5.14	EPA Approval of Final Design	0 wks	114	Fri 12/22/17																				
116	5.15	Prepare RAWP	4 wks	115FS-4 wks	Mon 11/27/17																				
117	5.16	Submit RAWP	0 wks	116	Fri 12/22/17																				
118																									
119	6	In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3	253.4 wks		Thu 2/7/13																				
120	6.1	Process Area	249 wks		Thu 2/7/13																				
121	6.1.1	EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks		Thu 2/7/13																				
122	6.1.2	Preliminary Design (included in Demonstration Work Pla	0 wks		Thu 2/7/13																				
123	6.1.3	Characterization and DNAPL Recovery (began 2012)	32 wks		Thu 2/7/13																				
124	6.1.4	Characterization Report and Pilot Test Plan	11.8 wks	123	Thu 9/19/13																				
125	6.1.5	Submit Characterization Report and Pilot Test Plan	0 wks	124	Tue 12/10/13																				
126	6.1.6	Review and Approval of Pilot Test Plan	10 wks	125	Wed 12/11/13																				
127	6.1.7	Technical Working Group Meeting	0 wks		Wed 12/18/13																				
128	6.1.8	Pilot Injection Testing	15 wks	126	Mon 3/17/14																				
129	6.1.8.1	Pre-Pilot Testing & Chemical Delivery	1 wk		Mon 3/17/14																				
130	6.1.8.2	Pilot Injections	3 wks	129	Mon 3/24/14																				
131	6.1.8.3	Borings in Injection Area	1 wk	130FS+10 w	Mon 6/23/14																				
132	6.1.9	Technical Working Group Meeting	0 wks		Thu 7/10/14																				
133	6.1.10	Pre-Final Design	44 wks	130	Mon 4/14/14																				
134	6.1.11	Submit Pre-Final Design	0 wks	133	Fri 2/13/15																				
135	6.1.12	Review and Comment	6 wks	134	Mon 2/16/15																				
136	6.1.13	Final Design and RAWP	3.2 wks	135	Mon 3/30/15																				
137	6.1.14	Submit Final Design and RAWP	0 wks	136	Mon 4/20/15																				
138	6.1.15	Review	0.4 wks	137	Tue 4/21/15																				
139	6.1.16	EPA Approval of Final Design and RAWP	0 wks	138	Wed 4/22/15																				
140	6.1.17	Implementation of Process-Area ISGS Injections	12 wks	139FS+7 wks	Tue 7/7/15																				
141	6.1.18	Prepare Implementation Report	26.1 wks	140	Tue 9/29/15																				
142	6.1.19	Submit Implementation Report	0 wks	141	Tue 3/29/16																				
143	6.1.20	Post-Injection Effectiveness Monitoring	52 wks	140	Tue 9/29/15																				
144	6.1.21	Submit Phase II Performance Monitoring Report	0 wks		Mon 8/1/16																				
145	6.1.22	Review	20.4 wks	144	Mon 8/1/16																				
146	6.1.23	Submit Revised Phase II Performance Monitoring Report	0 wks	145	Tue 12/20/16																				
147	6.1.24	Review	7.6 wks	146	Wed 12/21/16																				
148	6.1.25	EPA Approval of Phase II Monitoring Report and Additional Treatment	0 wks	147	Fri 2/10/17																				
149	6.1.26	Follow-Up ISGS Injections	4 wks	148	Mon 2/13/17																				
150	6.1.27	Plan for Confirmation Borings	0 wks		Fri 8/18/17																				
151	6.1.28	Review and Comment	2.8 wks	150	Fri 8/18/17																				
152	6.1.29	Updated Plan for Confirmation Borings	0 wks	151	Wed 9/6/17																				
153	6.1.30	Conduct Follow-Up Borings/Testing	10 wks	152	Thu 9/7/17																				
154																									
155	6.2	South Lagoon	171 wks		Mon 9/8/14																				
156	6.2.1	Preliminary Design & Design Investigation Work Plan	32.2 wks		Mon 9/8/14																				
157	6.2.2	Submit Preliminary Design & Design Investigation Work	0 wks	156	Mon 4/20/15																				
158	6.2.3	Review of Preliminary Design & Design Investigation Work Plan	45 wks	157	Tue 4/21/15																				

Red text used for current tasks

Task  Milestone  Summary 

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	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	6.2.4	Prepare Revised Preliminary Design & Design Investigation Work Plan	3.1 wks	158	Tue 3/1/16																				
160	6.2.5	Review and Approval of Work Plan	24.6 wks	159	Tue 3/22/16																				
161	6.2.6	Installation of Borings and DNAPL Recovery Wells	15.4 wks	160	Thu 4/13/17																				
162	6.2.6.1	Phase I Results and Plan for Additional Borings	0 wks		Thu 4/13/17																				
163	6.2.6.2	Review and Comment	4.8 wks	162	Thu 4/13/17																				
164	6.2.6.3	Revised Plan for Additional Borings	1.6 wks	163	Wed 5/17/17																				
165	6.2.6.4	Review and Approval	3.4 wks	164	Mon 5/29/17																				
166	6.2.6.5	Installation of Additional Borings	5.6 wks	165	Wed 6/21/17																				
167	6.2.7	Collection of Baseline Data	13 wks	161	Mon 7/31/17																				
168	6.2.8	Pre-Final Design	10 wks	161	Mon 7/31/17																				
169	6.2.9	Submit Pre-Final Design	0 wks	168	Fri 10/6/17																				
170	6.2.10	Review and Comment	3 wks	169	Mon 10/9/17																				
171	6.2.11	Final Design and RAWP	4 wks	170	Mon 10/30/17																				
172	6.2.12	Submit Final Design and RAWP	0 wks	171	Fri 11/24/17																				
173	6.2.13	Review	3 wks	172	Mon 11/27/17																				
174	6.2.14	EPA Approval of Final Design and RAWP	0 wks	173	Fri 12/15/17																				
175																									
176	7	In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	142 wks		Mon 11/6/17																				
177	7.1	Pre-Design Investigation & Treatability Test Workplan	6 wks	15	Mon 11/6/17																				
178	7.2	Beazer Submit Pre-Design Investigation & Treatability Test	0 wks	177	Fri 12/15/17																				
179	7.3	Review and Approval	8 wks	178	Mon 12/18/17																				
180	7.4	Conduct Pre-Design Investigation & Treatability Test	33 wks	179	Mon 2/12/18																				
181	7.5	Pilot Test Workplan	11 wks	180	Mon 10/1/18																				
182	7.6	Beazer Submit Pilot Test Workplan	0 wks	181	Fri 12/14/18																				
183	7.7	Review and Approval	8 wks	182	Mon 12/17/18																				
184	7.8	Conduct Pilot Test	13 wks	183	Mon 2/11/19																				
185	7.9	Preliminary Design	12 wks	184	Mon 5/13/19																				
186	7.10	Submit Preliminary Design	0 wks	185	Fri 8/2/19																				
187	7.11	Review and Comment	10 wks	186	Mon 8/5/19																				
188	7.12	Pre-Final Design	13 wks	187	Mon 10/14/19																				
189	7.13	Review and Comment	10 wks	188	Mon 1/13/20																				
190	7.14	Final Design	6 wks	189	Mon 3/23/20																				
191	7.15	Review and Approval	4 wks	190	Mon 5/4/20																				
192	7.16	EPA Approval of Final Design	0 wks	191	Fri 5/29/20																				
193	7.17	Prepare RAWP	8 wks	192	Mon 6/1/20																				
194	7.18	Submit RAWP	0 wks	193	Fri 7/24/20																				
195																									
196	8	Other Engineered Components: DESIGN TRACK #5	63 wks		Mon 12/4/17																				
197	8.1	Pre-Design Work Plan	5 wks		Mon 12/4/17																				
198	8.2	Submit Pre-Design Work Plan	0 wks	197	Fri 1/5/18																				
199	8.3	Review and Approval	6 wks	198	Mon 1/8/18																				
200	8.4	EPA Approval of Pre-Design Work Plan	0 wks	199	Fri 2/16/18																				
201	8.5	Pre-Design Investigation	16 wks	200	Mon 2/19/18																				
202	8.6	Preliminary Design	6 wks	201	Mon 6/11/18																				
203	8.7	Submit Preliminary Design	0 wks	202	Fri 7/20/18																				
204	8.8	Review and Comment	5 wks	203	Mon 7/23/18																				
205	8.9	Pre-Final Design	10 wks	204	Mon 8/27/18																				
206	8.10	Review and Comment	3 wks	205	Mon 11/5/18																				
207	8.11	Final Design	3 wks	206	Mon 11/26/18																				
208	8.12	Review	1 wk	207	Mon 12/17/18																				
209	8.13	EPA Approval of Final Design	0 wks	208	Fri 12/21/18																				
210	8.14	Prepare RAWP	8 wks	209	Mon 12/24/18																				
211	8.15	Submit RAWP	0 wks	210	Fri 2/15/19																				

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021	
						H2	H1	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
212																									
213	9	Institutional Control	170.6 wks		Tue 7/9/13																				
214	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13																				
215	9.2	Submit ICIAP	0 wks	214	Fri 8/23/13																				
216	9.3	Review	12.5 wks	215	Mon 8/26/13																				
217	9.4	Beazer Respond to Comments	0 wks	216	Fri 10/30/15																				
218	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	217	Fri 10/30/15																				
219	9.6	Review	3 wks	218	Fri 10/30/15																				
220	9.7	EPA and FDEP Approval of ICIAP	0 wks	219	Thu 11/19/15																				
221	9.8	Implement Beazer-Property Restrictive Covenant	47 wks		Fri 11/20/15																				
222	9.8.1	Draft Proprietary Controls Package	13 wks	220	Fri 11/20/15																				
223	9.8.2	Submit Draft Proprietary Controls Package	0 wks	222	Thu 2/18/16																				
224	9.8.3	Review and Updating	8 wks	223	Fri 2/19/16																				
225	9.8.4	Update Title Search and Prepare Public Notice	8 wks	224	Fri 4/15/16																				
226	9.8.5	Beazer Publish Public Notice	0 wks	225	Thu 6/9/16																				
227	9.8.6	Public Comment Period	4.4 wks	226	Fri 6/10/16																				
228	9.8.7	Address Comments and Exectute Restrictive Covenant	5 wks	227	Tue 7/12/16																				
229	9.8.8	Record Restrictive Covenant at Alacha County Clerk of C	0 wks	228	Mon 8/15/16																				
230	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	229	Tue 8/16/16																				
231	9.8.10	Submit Final Proprietary Controls Package	0 wks	230	Thu 10/13/16																				