

January 23, 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

Subject: December 2017 Monthly Progress Report

Dear Mr. Miller:

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

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 Brourman, 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

# DECEMBER 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. Two 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 3,704,066 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 88.7 gallons per minute (gpm). The recovery for each component is listed below.
  - Surficial Aquifer
    - Perimeter Extraction Wells: 471,828 gallons
    - Former North Lagoon Drain: 393,840 gallons
    - Former Drip Track Drain: 479,060 gallons
    - Former Process Area Drain: 460,850 gallons
    - Former South Lagoon Drain: 466,890 gallons
  - Upper Floridan Extraction Wells
    - FW-6: 41,501 gallons
    - FW-21B: 162,095 gallons
    - FW-31BE: 795,860 gallons
    - FW-32BE: 432,142 gallons

Approximately 430.1 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 2,356,000 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. The system was shut down for 48 hrs from Dec 6 to 8 for the carbon change out.

## 3. Plans, Reports, Deliverables and Procedures Completed:

- Submitted Phase III ISGS Spot Treatment Injections and Phase IV Performance Evaluation Confirmation Boring and Aquifer Tests for the Former Process Area, Cabot/Koppers Superfund Site, Alachua County, Florida, on Dec 28, 2017.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) December 19, 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 chemical pumps, flushed lines, and repaired plant transfer pump.
- Fourth quarter sampling event December 4-7, 2017
- Irrigation breakthrough sampling December 28, 2017.
- Stormwater Sampling December 7, 2017.
- TSE Sampling December 28, 2017.
- Cleaned EW-15 and EW-16 flow meters.
- Repaired KIFCO tire and supply hose.
- Road repairs and grading.
- On-property irrigation using treated groundwater from FW-21B, FW-31BE, and FW-32BE.
- Shipped 54 drums drilling mud, and 5 drums PPE on December 11, 2017

# 4. Upcoming Actions:

- First quarter sampling event February 12- 23, 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.

### 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: Dec 2017

Date	Well	Volume (gal)				
	HG-10S	Stain				
	HG-10D	Stain				
	HG-12S	0.4				
12/7/2017	HG-12D	ND				
	HG-16S	Stain				
	HG-16D	Stain				
	MW-22B	Stain				
	HG-10S	Stain				
	HG-10D	Stain				
	HG-12S	0.5				
12/21/2017	HG-12D	ND				
	HG-16S	Stain				
	HG-16D	Stain				
	MW-22B	Stain				
12/12/2017	Drip Track	0.3				
12/27/2017	Drip Track	0.7				

									AL DESIGN							
ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2012 H2	2013 H1 H2	2014 H1 H2	2015 H1 H2	2016 H1 H2	2017 H1 H2	2018 H1 H2	2019 H1 H2	2020 H1 H2	202 H1
1	1	Consent Decree for RD/RA	23.8 wks		Thu 2/7/13	Wed 7/24/1	3	-								
2	1.1	3	0 days		Thu 2/7/13			•								
	1.2	Public Comment on Consent Decree	4.6 wks		Wed 2/13/13	Fri 3/15/1	3									
-	1.3		0 days		Fri 2/15/13	Fri 2/15/1	3	<b>•</b>								
_		Contractor, Quality Management Plan	0.1		T 7/0/40	T 7/0/4										
5	1.4		0 days		Tue 7/9/13			•								
6	1.5	EPA Issues Authorization to Proceed with Remedial Design	0 days		Wed 7/24/13	Wed //24/1	3	$\uparrow$								
7																
3		Remedial Design Work Plan (RDWP)	22.3 wks	_	Wed 7/24/13											
9	2.1	•	43 days		Wed 7/24/13											
0	2.2		0 wks		Fri 9/20/13											
1	2.3		6.8 wks		Mon 9/23/13											
2	2.4	<u>'</u>	4.3 wks			Mon 12/9/1										
3	2.5	·	0 wks		Mon 12/9/13											
4	2.6		2.6 wks		Mon 12/9/13				_							
5	2.7	EPA Approval RDWP	0 wks	14	Thu 12/26/13	Thu 12/26/1	3						+			
6																
7		Supporting Plans for RD/RA	100.8 wks			Thu 8/27/1										
8	3.5	•	0 wks		Fri 9/20/13				↓							
9	3.2		5 wks		Tue 4/1/14				<b>—</b>							
.0	3.6	Stormwater Management Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/1	4									
21	3.7	Noise and Dust Control Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/1	4									
2	3.5	Equipment Decontamination Plan	5 wks	19FF	Tue 4/1/14	Mon 5/5/1	4									
3	3.6	Beazer update QAPP	33.8 wks		Mon 1/5/15	Thu 8/27/1	5									
4	3.7	Beazer Submit Revised QAPP	0 wks	23	Thu 8/27/15	Thu 8/27/1	5			•						
5																
6	4	Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	121.4 wks		Tue 4/30/13	Thu 8/27/1	5			-						
27	4.1	Initial Identification of Remediation & Evaluation Parcels	0 wks		Tue 4/30/13	Tue 4/30/1	3	•								
28	4.2	Obtain Access Agreements for Surveys & Sampling	23 wks		Thu 5/2/13	Wed 10/9/1	3									
29	4.3	Community Information Session	0 wks		Thu 5/30/13	Thu 5/30/1	3	<b>•</b>								
0	4.4	Sampling for Refinement of Remediation Parcels (July 2013)	18.8 wks		Fri 7/19/13	Wed 11/27/1	3	-								
1	4.4.1	,	0 wks		Fri 7/19/13	Fri 7/19/1	3									
2	4.4.2		0 wks		Mon 7/22/13			I								
3	4.4.3		2 days		Tue 7/30/13			Ţ								
	4.4.4	'	6.2 wks	33		Thu 9/12/1		<u> </u>								
5	4.4.5	·	10.8 wks			Wed 11/27/1										
6	4.4.6	·			Wed 11/27/13											
7	4.4.0		10.3 wks		Thu 9/26/13											
		·	1.8 wks		Thu 9/26/13			1								
_	4.5.1		3 wks		Wed 10/9/13											
9	4.5.2		2 wks		Thu 10/10/13											
0	4.5.3	, ,			Thu 10/10/13 Thu 10/24/13											
1	4.5.4	, ,	2 wks													
2	4.5.5		6 wks		Thu 9/26/13											
3	4.5.6		0 wks		Wed 11/6/13											
4	4.5.7		1 wk		Thu 11/7/13											
5	4.5.8		0 wks		Wed 11/13/13											
3	4.5.9	-	2 wks		Thu 10/31/13											
	4.5.10		3.3 wks	*	Thu 11/14/13											
3	4.6		42.4 wks		Mon 9/16/13			-								
9	4.6.1	-	12.4 wks		Thu 11/28/13				<u> </u>							
0	4.6.2		0 wks		Fri 2/21/14				•							
1	4.6.3		0.8 wks		Mon 2/24/14				ľ							
2	4.6.4		34 wks		Mon 9/16/13											
3	4.6.5	Parcel Designs & Remediation Agreements	28 wks		Mon 12/2/13	Fri 6/13/1	4									
	ie 1/2		used for curr	ent tasks	Task		Milest	. •	Summary •	-						

ID 🗀							EDIAL DESIGN				I	1	1	1
	WBS T	ask Name	Duration Predecessors	Start	Finish	2013 H2 H1 H2	2014 H1 H2	2015 H1 H2	2016 H1 H2	2017 H1 H2	2018 H1 H2	2019 H1 H2	2020 H1 H2	H1
	4.6.6	Final Design and RAWP	19.6 wks	Fri 2/21/14			-							
_	.6.6.1	Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks	Fri 2/21/14			•							
	.6.6.2	Final Design and RAWP Approval: Blocks G-H	1 wk 55		Thu 2/27/14		ľ							
	.6.6.3	Submit Pre-Final Designs & RAWP: Blocks E&F	0 wks	Fri 3/7/14			•							
	.6.6.4	Final Design and RAWP Approval: Blocks E&F	1 day 57	Fri 3/7/14			l l							
	.6.6.5	Submit Pre-Final Designs & RAWP: Block D	0 wks	Thu 4/3/14			<b>\$</b>							
	.6.6.6	Final Design and RAWP Approval: Block D	2 days 59	Thu 4/3/14			l l'							
	.6.6.7	Submit Pre-Final Designs & RAWP: Block C		Wed 4/30/14			-							
	.6.6.8	Final Design and RAWP Approval: Block C	0 wks 61		Wed 4/30/14		•							
	.6.6.9	Submit Pre-Final Designs & RAWP: Block B	0 wks 61FF+3.1 wk				₹							
64 .6	6.6.10	Final Design and RAWP Approval: Block B	0.6 wks 63		Tue 5/27/14		l l							
65 .6	6.6.11	Submit Pre-Final Designs & RAWP: Block A	0 wks 63FF+3 wks		Thu 6/12/14		<b>4</b>							
66 .6	6.6.12	Final Design and RAWP Approval: Block A	0.6 wks 65		Tue 6/17/14		l <sup>*</sup>							
67 .6	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 .6	6.6.14	Final Design and RAWP Approval: Block I	0.2 wks 67	Tue 7/8/14	Tue 7/8/14		The state of the s							
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		Ь							
	4.7.2	Analysis and Validation	7.2 wks 70	Thu 2/20/14	Thu 4/10/14									
72	4.7.3	Data Summary Report Addendum	16 wks 71		Thu 7/31/14									
73	4.7.4	Beazer Submit Report Addendum	0 wks 72	Thu 7/31/14	Thu 7/31/14									
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 8/25/14		<b>—</b>							
	4.8.1	Access Agreements for Design	2 wks	Mon 6/2/14			<b>b</b> .							
	4.8.2	Surveying & Interviews	5 wks 76	Mon 6/16/14										
	4.8.3	Preliminary Design	5 wks 77SS+1 wk	Mon 6/23/14										
	4.8.4	Pre-Final Design and Access	7 wks 78SS+1 wk	Mon 6/30/14										
	4.8.5	RAWP: Block J	0 wks	Fri 7/25/14			<b>•</b>							
	4.8.6	Final Design & RAWP Approval: Block J	1 wk 80		Thu 7/31/14		<b>*</b>							
	4.8.7	RAWP: Block K	0 days 79		Wed 8/20/14									
33	4.8.8	Final Design and RAWP Approval: Block K	4 days 82		Mon 8/25/14		<b>*</b>							
84	4.9	Community Meetings	16.4 wks		Tue 2/18/14		· ·							
35	4.9.1	Community Meeting: Landscaping Workshop - City (Oct			Mon 10/28/13		•							
86	4.9.2	Community Meeting (Jan 18 2014)	2 days		Mon 1/20/14	·   •	1							
87	4.9.3	Community Meeting (Feb 18 2014)	0 wks		Tue 2/18/14		•							
88	4.10	Implementation of Remedial Action	39 wks		Fri 11/14/14		_							
89	4.11	Pre-Final Inspection	0 wks 88	Tue 11/18/14										
90	4.12	Prepare Implementation Report		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			56	3/2//10	5,21,10			_						
94	5 (	Cutoff Wall and Stormwater Controls: DESIGN TRACK #2	193 wks	Wed 12/17/14	Mon 8/27/19									
95	5.1	Pre-Design Work Plan			Wed 5/13/15		-	1						
96	5.2	Submit Pre-Design Work Plan	0 wks 95		Wed 5/13/15 Wed 5/13/15									
97	5.3	Review and Comment	10 wks 96		Wed 3/13/13 Wed 7/22/15			<b>—</b>						
98	5.4	Submit Response to Comments and Revised Plan	0 wks 97FS+5.2 wk											
	5.5	EPA Approval of Pre-Design Work Plan	0 wks 97FS+5.2 wk 0 wks 98FS+0.2 wk	Fri 8/28/15				<b>&gt;</b>						
99		.,,												
	<b>5.6</b>	Pre-Design Investigation	<b>38 wks</b> 4 wks 99		Fri 5/20/16			4	-					
	5.6.1	Planning & Preparation		Mon 8/31/15				<u></u>						
	5.6.2	Field Work	11 wks 101		Fri 12/11/15									
	5.6.3	Lab Work	26 wks 102FS-3 wks					_	<u> </u>					
04	5.7	Preliminary Design	8.3 wks 103FS-2 wks											
05	5.8	Submit Preliminary Design	0 wks 104		Tue 7/5/16				•					
06	5.9	Review and Comment	24 wks 105	Tue 7/5/16	Tue 12/20/16									

					GA	INESVILLE	REMED	IAL DESIGN							
ID WB	SS Task Name	Duration Predecessors	Start	Finish	2012 H2	201 H1	3 H2	2014 H1 H2	2015 H1 H2	2016 H1 H2	2017 H1 H2	2018 H1 H2	2019 H1 H2	2020 H1 H2	2021 H1 H
107 <b>5</b> .	10 Pre-Final Design	43.6 wks 106	Fri 5/5/17	Mon 3/5/18		111	112	111 112	111   112	111 112	1112		111 112	111 112	
108 5.10	0.1 Supplemental Design Investigation Work Plan	0 wks	Fri 5/5/17	Fri 5/5/17	7						<b>•</b>				
109 5.10	D.2 Review and Approval	3.1 wks 108	Fri 5/5/17	Fri 5/26/17	7										
110 5.10		5 wks 109	Mon 5/29/17		_						<u> </u>				
111 5.10		28 wks 110	Wed 8/23/17												
	11 Review and Comment	3 wks 107		Mon 3/26/18											
	12 Final Design	8 wks 112		Mon 5/21/18											
	13 Review	4 wks 113		Mon 6/18/18											
	14 EPA Approval of Final Design	0 wks 114		Mon 6/18/18	_										
	<ul><li>15 Prepare RAWP</li><li>16 Submit RAWP</li></ul>	10 wks 115		Mon 8/27/18											
117 5. 118	16 Submit RAWP	0 wks 116	IVIO11 6/21/16	Mon 8/27/18											
119	6 In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK	334.4	Thu 2/7/13	Thu 7/4/19											
119	#3	wks	111u <i>2/1/</i> 13	111u 1/4/13											
120	-	334.4 wks	Thu 2/7/13	Thu 7/4/19	9	-							•		
121 6.1	1.1 EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks	Thu 2/7/13	Thu 2/7/13	3	•									
122 6.1	, ,		Thu 2/7/13			•									
123 6.1	, , ,	32 wks		Wed 9/18/13											
124 6.1	·	11.8 wks 123		Tue 12/10/13	_										
125 6.1		0 wks 124	Tue 12/10/13												
126 6.1			Wed 12/11/13		_										
127 6.1			Wed 12/18/13		_		•	<b>↓</b>							
128 6.1		15 wks 126	Mon 3/17/14					<u> </u>							
129 6.1.8	-	1 wk	Mon 3/17/14 Mon 3/24/14					<b>\</b>							
130 6.1.8 131 6.1.8		3 wks 129 1 wk 130FS+10 wł			_			<b>•</b>							
132 6.1		0 wks	Thu 7/10/14		_										
133 6.1.		44 wks 130	Mon 4/14/14		_										
134 6.1.		0 wks 133	Fri 2/13/15						<b>*</b>						
135 6.1.	_	6 wks 134	Mon 2/16/15												
136 6.1.		3.2 wks 135		Mon 4/20/15	_				📆						
137 6.1.	•	0 wks 136		Mon 4/20/15											
138 6.1.	-	0.4 wks 137	Tue 4/21/15	Wed 4/22/15	5				K						
139 6.1.	16 EPA Approval of Final Design and RAWP	0 wks 138	Wed 4/22/15	Wed 4/22/15	5										
140 6.1.	17 Implementation of Process-Area ISGS Injections	12 wks 139FS+7 wks	Tue 7/7/15	Mon 9/28/15	5										
141 6.1.	18 Prepare Implementation Report	26.1 wks 140,177	Fri 7/6/18	Fri 1/4/19	9										
142 6.1.	19 Submit Implementation Report	0 wks 141	Fri 1/4/19	Fri 1/4/19	9								•		
143 6.1.		52 wks 140,177	Fri 7/6/18	Thu 7/4/19	9										
144 6.1.		0 wks		Mon 8/1/16						•					
145 6.1.		20.4 wks 144		Tue 12/20/16	_						<u> </u>				
146 6.1.		0 wks 145	Tue 12/20/16	Tue 12/20/16	6					<b>-</b>					
147 6.1.	Report 24 Review	7.6 wks 146	Wed 12/21/16	Fri 2/10/17	7						<u>*</u> _				
148 6.1.		0 wks 147	Fri 2/10/17												
	Additional Treatment														
149 6.1.		4 wks 148	Mon 2/13/17		_						Ĭ				
150 6.1.	-	0 wks	Fri 8/18/17								•				
151 6.1.		2.8 wks 150		Wed 9/6/17	_						<u> </u>				
152 6.1.	-	0 wks 151		Wed 9/6/17	_						•				
153 6.1.		11 wks 152		Wed 11/22/17											
154 6.1.	· · · · · · · · · · · · · · · · · · ·	5.2 wks 153	Thu 11/23/17		_						-	<del> </del>			
155 6.1. 156	32 Submit Evaluation Report	0 wks 154	Thu 12/28/17	111u 12/28/1/							1				
	6.2 South Lagoon	225 wks	Mon 9/8/14	Thu 12/27/18	3										
157 6.2		32.2 wks		Mon 4/20/15	_										
100 0.2	Tremminary Design & Design investigation work Plan	OZ.Z WNO	IVIUII 3/0/14	IVIOI 1 4/20/13	<b>'</b>										
Project File Date: Tue 1 Page 3 of 5	/23/18	sed for current tasks	Task		Milestor	ne 🔷		Summary -	<b></b>						

						G	SAINESVILLE	REMED	DIAL DESIGN							
ID \	WBS	Task Name	Duration Predecessors	Start	Finish	2012 H2	201 H1	3 H2	2014 H1 H2	2015 H1 H2	2016 H1 H2	2017 H1 H2	2018 H1 H:	2019 2 H1 H2	2020 H1 H2	2021 H1
159	6.2.2	Submit Preliminary Design & Design Investigation Work	0 wks 158	Mon 4/20/15	Mon 4/20/15		111	112	111 112	1112	111 112	111   112		2 111 112	111   112	111
160	6.2.3	Review of Preliminary Design & Design Investigation Work Plan	45 wks 159	Tue 4/21/15	Mon 2/29/16	6										
161	6.2.4	Prepare Revised Preliminary Design & Design Investigation Work Plan	3.1 wks 160	Tue 3/1/16	Tue 3/22/16	6										
162	6.2.5	9	24.6 wks 161	Tue 3/22/16	Fri 9/9/16	6										
163	6.2.6	Installation of Borings and DNAPL Recovery Wells	15.4 wks 162	Thu 4/13/17	Fri 7/28/17	7										
164 6	6.2.6.1	Phase I Results and Plan for Additional Borings	0 wks	Thu 4/13/17	Thu 4/13/17	7						•				
165 6	5.2.6.2	Review and Comment	4.8 wks 164	Thu 4/13/17	Tue 5/16/17	7										
	3.2.6.3	Revised Plan for Additional Borings	1.6 wks 165	Wed 5/17/17	Fri 5/26/17	7						<u>K</u>				
167 6		Review and Approval	3.4 wks 166	Mon 5/29/17	Tue 6/20/17	7						<u> </u>				
	6.2.6.5	-	5.6 wks 167	Wed 6/21/17		_						<u> </u>				
	6.2.7	Collection of Baseline Data	23 wks 163	Mon 7/31/17		_										
	6.2.8	Pre-Final Design	11.6 wks 163	Mon 7/31/17												
	6.2.9	Submit Pre-Final Design		Wed 10/18/17								-				
	6.2.10		13.4 wks 171	Thu 10/19/17									<u> </u>			
	6.2.11	Final Design and RAWP	5 wks 172		Thu 2/22/18	_										
	6.2.12	Submit Final Design and RAWP	0 wks 173		Thu 2/22/18											
	6.2.13		3 wks 174		Thu 3/15/18	_										
	6.2.14 6.2.15	EPA Approval of Final Design and RAWP Implementation of Process-Area ISGS Injections	0 wks 175 16 wks 176		Thu 3/15/18 Thu 7/5/18	_										
	6.2.16		25 wks 140,177		Thu 12/27/18	_										
	6.2.17	Submit Implementation Report	0 wks 178	Thu 12/27/18		_										
180	0.2.17	Submit implementation Report	0 WKS 170	1110 12/27/10	111u 12/21/10	5								<b>T</b>		
181	7	In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	130 wks	Mon 4/2/18	Fri 9/25/20	D							-		-	
182	7.1	Pre-Design Investigation & Treatability Test Workplan	6 wks 15	Mon 4/2/18	Fri 5/11/18	В										
83	7.2	Beazer Submit Pre-Design Investigation & Treatability Test	0 wks 182	Fri 5/11/18	Fri 5/11/18	В										
84	7.3	Review and Approval	5 wks 183	Mon 5/14/18	Fri 6/15/18	В										
185	7.4	Conduct Pre-Design Investigation & Treatability Test	26 wks 184	Mon 6/18/18	Fri 12/14/18	В										
86	7.5	•	9 wks 185	Mon 12/17/18												
87	7.6	•	0 wks 186	Fri 2/15/19		_								•		
188	7.7	• • • • • • • • • • • • • • • • • • • •	8 wks 187	Mon 2/18/19		_										
189	7.8		13 wks 188	Mon 4/15/19												
190	7.9	, ,	12 wks 189	Mon 7/15/19												
91		Submit Preliminary Design	0 wks 190		Fri 10/4/19									<u>*</u>		
92	7.11		10 wks 191	Mon 10/7/19										_		
93	7.12			Mon 12/16/19											<u></u>	
94 95	7.13 7.14		10 wks 193 6 wks 194	Mon 3/16/20 Mon 5/25/20												
195	7.14	<u> </u>	4 wks 195	Mon 7/6/20											<b>-</b>	
197	7.13	• • • • • • • • • • • • • • • • • • • •	0 wks 196	Fri 7/31/20		_										
198	7.17	•	8 wks 197	Mon 8/3/20											<b>Y</b>	
199	7.18	•	0 wks 198	Fri 9/25/20		_										
200	5	2-2	55 .00	0,20,20	0/20/20										_	
201	8	Other Engineered Components: DESIGN TRACK #5	57 wks	Mon 3/5/18	Fri 4/5/19	9										
202	8.1		5 wks	Mon 3/5/18										•		
203	8.2	•	0 wks 202	Fri 4/6/18												
204	8.3	•	6 wks 203	Mon 4/9/18												
205	8.4	EPA Approval of Pre-Design Work Plan	0 wks 204	Fri 5/18/18	Fri 5/18/18	В										
206	8.5	Pre-Design Investigation	13 wks 205	Mon 5/21/18	Fri 8/17/18	В										
207	8.6	Preliminary Design	6 wks 206	Mon 8/20/18									🕌	_		
208	8.7	Submit Preliminary Design	0 wks 207	Fri 9/28/18	Fri 9/28/18	В								X		
209	8.8		5 wks 208	Mon 10/1/18										<u> </u>		
210	8.9	Pre-Final Design	7 wks 209	Mon 11/5/18	Fri 12/21/18	В										
roject F ate: Tu age 4 d	ue 1/23	D Schedule 20180123.mpp Red text u 1/18	sed for current tasks	Task		Milesto	one •		Summary	<b>-</b>						

						GA	INESVILLE	REMED	IAL DESIGN							
ID	WBS T	ask Name	Duration Predecessors	Start	Finish	2012 H2	201: H1	3 H2	2014 H1 H2	2015 H1 H2	2016 H1 H2	2017 H1 H2	2018 H1 H2	2019 H1 H2	2020 H1 H2	2021 H1 H
211	8.10	Review and Comment	3 wks 210	Mon 12/24/18	Fri 1/11/19					, , , ,				<u> </u>		
212	8.11	Final Design	3 wks 211	Mon 1/14/19	Fri 2/1/19											
213	8.12	Review	1 wk 212	Mon 2/4/19	Fri 2/8/19									<u>K</u>		
214	8.13	EPA Approval of Final Design	0 wks 213	Fri 2/8/19	Fri 2/8/19											
215	8.14	Prepare RAWP	8 wks 214	Mon 2/11/19	Fri 4/5/19											
216	8.15	Submit RAWP	0 wks 215	Fri 4/5/19	Fri 4/5/19									•		
217																
218	9 I	nstitutional Control	297 wks	Tue 7/9/13	Fri 3/15/19		_							<del>-</del>		
219	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks 5	Tue 7/9/13	Fri 8/23/13											
220	9.2	Submit ICIAP	0 wks 219	Fri 8/23/13	Fri 8/23/13			•								
221	9.3	Review	12.5 wks 220	Mon 8/26/13	Wed 11/20/13								<b>L</b>			
222	9.4	Beazer Respond to Comments	8 wks 221	Mon 2/5/18	Fri 3/30/18											
223	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks 222	Fri 3/30/18	Fri 3/30/18								<u> </u>			
224	9.6	Review	3 wks 223	Mon 4/2/18	Fri 4/20/18								<u> </u>			
225	9.7	EPA and FDEP Approval of ICIAP	0 wks 224	Fri 4/20/18	Fri 4/20/18								<b>•</b>			
226	9.8	Implement Beazer-Property Restrictive Covenant	47 wks	Mon 4/23/18	Fri 3/15/19									_		
227	9.8.1	Draft Proprietary Controls Package	13 wks 225	Mon 4/23/18	Fri 7/20/18											
228	9.8.2	Submit Draft Proprietary Controls Package	0 wks 227	Fri 7/20/18	Fri 7/20/18								<u> </u>			
229	9.8.3	Review and Updating	8 wks 228	Mon 7/23/18	Fri 9/14/18											
230	9.8.4	Update Title Search and Prepare Public Notice	8 wks 229	Mon 9/17/18	Fri 11/9/18									•		
231	9.8.5	Beazer Publish Public Notice	0 wks 230	Fri 11/9/18	Fri 11/9/18								<u> </u>	-		
232	9.8.6	Public Comment Period	4.4 wks 231	Mon 11/12/18	Tue 12/11/18								Ĭ	_		
233	9.8.7	Address Comments and Exectute Restrictive Covenant	5 wks 232	Wed 12/12/18										<u> </u>		
234	9.8.8	Record Restrictive Covenant at Alacha County Clerk of (	0 wks 233	Tue 1/15/19										<b>S</b>		
235	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks 234	Wed 1/16/19	Fri 3/15/19											
236	9.8.10	Submit Final Proprietary Controls Package	0 wks 235	Fri 3/15/19	Fri 3/15/19									•		

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Task

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