

January 16, 2015

VIA EMAIL

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 2014 Monthly Progress Report

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), attached is the December 2014 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

Rusty Kestle, EPA CC: Kelsey Helton, FDEP John Mousa, 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

December 2014 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: 2.1 gallons of NAPL were removed from Upper Hawthorn wells during the past month (2 recovery events). A total of 583 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 26 temporary injection points (TIPs) installed in the Former Process Area as part of the In-Situ Geochemical Stabilization (ISGS) program (Table 2). This is a pilot demonstration for full scale design. Three NAPL recovery events were conducted during the month, resulting in a total of 161.7 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 27.5 gallons removed.
- A total of 4,476,222 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 100.3 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 672,877gallons
 - Former North Lagoon Drain: 491,980 gallons
 - Former Drip Track Drain: 519,300 gallons
 - Former Process Area Drain: 512,080 gallons
 - Former South Lagoon Drain: 514,140 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 45,023 gallons
 - FW-21B: 141,624 gallons
 - FW-31BE: 1,041,350 gallons
 - FW-32BE: 537,848 gallons

Approximately 349.7 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 3,884,000 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 8 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) Dec 18, 2014.
- 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).
- Cleaned/repaired plant sump pump.
- Cleaned EW-16 pump and flow meter.
- Irrigation Breakthrough sampling on Dec 8, 2014.
- Fourth quarter sampling Dec 1 5, 2014.
- 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.
- Routine inspection, operation, maintenance, and monitoring.
- First quarter sampling event: Feb 16 20, 2014.

5. Schedule Status:

- The current remedial design schedule is attached.
- No significant delays were encountered during the reporting period.

6. Plan/Schedule Modifications:

• The schedule has been updated to reflect minor schedule changes.

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.

Well ID	Total Last Month (gal) (2 events)	DNAPL Volume (gal)	DNAPL Volume (gal)	Total This Month (gal)
	November 2014	12/11/2014	12/24/2014	December 2014
HG-9S	0	Stain	ND	0
HG-10S	0	Stain	Stain	0
HG-10D	0	Stain	Stain	0
HG-11S	0.75	0.3	0.3	0.6
HG-12S	0.6	0.4	0.4	0.8
HG-12D	0	ND	ND	0
HG-15S	0.45	0.4	0.3	0.7
HG-16S	0	Stain	Stain	0
HG-16D	0	Stain	Stain	0
MW-22B	0	Stain	ND	0
Total	1.8	1.1	1	2.1
Cumulative Total	580.46			582.56

Table 1. DNAPL Recovery - Hawthorn Group Monitoring Wells

ND - No DNAPL Detected

Table 2. DNAPL Recovery Temporary Injection Points (TIPs)

Well ID	Total Last Month (gal) (2 events) November 2014	DNAPL Volume (gal) 12/3/2014	DNAPL Volume (gal) 12/17/2014	DNAPL Volume (gal) 12/30/2014	Total This Month (gal) December 2014
220N 180E	4.5	2.3	2.3	2.1	6.7
280N 380E	6.3	3.1	3.3	3.3	9.7
300N 180E	9.5	4.6	4.5	4.6	13.7
300N 420E	7	3.4	3.5	3.3	10.2
320N 220E	7.1	2.8	2.8	2.8	8.4
320N 300E	6.5	3.1	3.2	2.9	9.2
340N 340E	11.5	5.5	5.3	5.1	15.9
360N 280E	7.3	3.7	3.8	3.5	11
380N 340E	11	6.1	5.2	5.4	16.7
400N 380E	2.7	1.4	1.3	1.4	4.1
460N 340E	2.9	1.6	1.4	1.2	4.2
420N 340E *	8.4	3.8	3.8	3.5	11.1
220N 340E	2	0.9	0.8	1	2.7
240N 380E	3	1.5	1.5	1.2	4.2
340N 180E	1.7	0.7	0.8	0.8	2.3
320N 140E	1.2	0.5	0.6	0.7	1.8
300N 260E	2	1.1	1.1	1	3.2
360N 140E	0.55	0.3	0.2	0.2	0.7
400N 140E	0.4	0.1	0.1	0.2	0.4
200N 220E	1.55	0.9	0.8	0.9	2.6
280N 220E	2.2	1.0	1	1.1	3.1
360N 220E	2.9	1.3	1.4	1.3	4
280N 300E	2.9	1.5	1.5	1.4	4.4
360N 380E	6.7	3.5	3.3	3.2	10
507N 260E	1	0.2	0.1	0.1	0.4
Drip Track	1.3	0.5	0.2	0.3	1
Total	114.1				161.7

NP - Not Pumped

* Inside ISGS Pilot Test Area

Well ID M-38BE M-39BE M-40BE	Total Last Month (gal) (2 events)	DNAPL Volume (gal)	DNAPL Volume (gal)	Total This Month (gal)
	November 2014	12/10/2014	12/23/2014	December 2014
M-38BE	0	NR	NR	0
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 *	2.5	1.3	1.3	2.6
HG-37SE	4.9	2.3	2.1	4.4
HG-38SE	10.1	5.2	4.6	9.8
HG-39SE	5.7	2.8	2.8	5.6
HG-40SE	5.6	2.6	2.5	5.1
Total	28.8			27.5

Table 3. DNAPL ISGS Recovery Data - DNAPL Recovery Wells

NR - No Recovery

* Inside ISGS Pilot Test Area

	0 -			2	GAINESVILL			N			1						
D WB	IS T	ask Name	Duration Predecessors	Start	Finish	Qtr 1 C	2013 Qtr 2 Qtr 3	Qtr 4	20 Qtr 1 Qtr 2	014 Qtr 3 Qtr 4	Qtr 1 Qt	2015 r 2 Qtr 3 Qtr	4 Qtr 1 Qtr	2016 2 Qtr 3 Qtr 4	2017 Qtr 1 Qtr 2 Qtr 3	2 Qtr 4 Qtr 1 Qtr 2	2018 2 Qt
1		onsent Decree for RD/RA	23.8 wks	Thu 2/7/13		-											
		US DOJ Lodges Donsent Decree with Court	0 days	Thu 2/7/13		•											
3 1		Public Comment on Consent Decree	4.6 wks	Wed 2/13/13													
		Beazer Submittal: Project Coordinators, Supervising Contractor, Quality Management Plan	0 days	Fri 2/15/13		•											
-		Court Enters Consent Decree Final	0 days	Tue 7/9/13			•]										
i 1	1.5	EPA Issues Authorization to Proceed with Remedial Design	0 days	Wed 7/24/13	Wed 7/24/13												
3	2 R	emedial Design Work Plan (RDWP)	22.3 wks	Wed 7/24/13	Thu 12/26/13												
) 2	2.1	Prepare RDWP	43 days 6	Wed 7/24/13	Fri 9/20/13			Ь									
) 2	2.2	Beazer Submit RDWP	0 wks 9	Fri 9/20/13	Fri 9/20/13												
1 2	2.3	EPA Review and Comment RDWP	6.8 wks 10	Mon 9/23/13	Thu 11/7/13			–									
2 2	2.4	Beazer Respond to Comments	4.3 wks 11	Fri 11/8/13	Mon 12/9/13												
3 2	2.5	Beazer Submit Responses and RDWP Version 2	0 wks 12	Mon 12/9/13	Mon 12/9/13			1									
4 2	2.6	EPA Review	2.6 wks 13	Mon 12/9/13	Thu 12/26/13												
5 2	2.7	EPA Approval RDWP	0 wks 14	Thu 12/26/13	Thu 12/26/13			-)							
6																	
7		upporting Plans for RD/RA	72 wks	Fri 9/20/13	I I		1				₩₩						
		Beazer Submit Health & Safety Plan	0 wks 10	Fri 9/20/13			•	+	\downarrow								
		Materials Management Plan	5 wks 10	Tue 4/1/14													
0 3	3.6	Stormwater Management Plan	5 wks 19FF	Tue 4/1/14	I I												
:1 3	3.7	Noise and Dust Control Plan	5 wks 19FF	Tue 4/1/14													
2 3	3.5	Equipment Decontamination Plan	5 wks 19FF	Tue 4/1/14	I I												
3 3	3.6	Beazer update QAPP	5 wks	Mon 1/5/15	1 1												
4 3	3.7	Beazer Submit Revised QAPP	0 wks 23	Fri 2/6/15	Fri 2/6/15												
5																	
6		ff-Property Soil Replacement (OU-5): DESIGN TRACK #1	93.8 wks	Tue 4/30/13	Fri 2/13/15												
7 4		Initial Identification of Remediation & Evaluation Parcels	0 wks	Tue 4/30/13			•										
8 4	4.2	Obtain Access Agreements for Surveys & Sampling	23 wks	Thu 5/2/13													
	4.3 4.4	Community Information Session Sampling for Refinement of Remediation Parcels (July 2013)	0 wks 18.8 wks	Thu 5/30/13 Fri 7/19/13	Thu 5/30/13 Wed 11/27/13		•										
31 4.4	4.1	Proposal for Sampling (July 2013)	0 wks	Fri 7/19/13													
	4.1	EPA Approval of Sampling	0 wks	Mon 7/22/13													
	4.3	Sample Collection	2 days	Tue 7/30/13													
4 4.4		Analysis and Validation	6.2 wks 33	Thu 8/1/13													
	4.5	Data Summary Report	10.8 wks 34		Wed 11/27/13		_										
	4.6	Beazer Submit Data Summary and Fingerprinting Report	0 wks 35		Wed 11/27/13												
	4.5	Pilot Home Soil Replacement	10.3 wks	Thu 9/26/13													
	5.1	Survey	1.8 wks	Thu 9/26/13													
	5.2	Design & Interview	3 wks 38	Wed 10/9/13													
	5.3	Borrow Sampling	2 wks		Wed 10/23/13												
	5.4	Sample Analysis	2 wks 40	Thu 10/24/13													
	5.5	Pilot Plan	6 wks	Thu 9/26/13													
3 4.5	5.6	Submit Pilot Plan	0 wks 42,41	Wed 11/6/13	Wed 11/6/13												
4.5	5.7	Review	1 wk 43	Thu 11/7/13	Wed 11/13/13			N									
	5.8	EPA Approval of Pilot Plan	0 wks 44		Wed 11/13/13												
	5.9	Permitting	2 wks 45FF	Thu 10/31/13	Wed 11/13/13												
7 4.5.	.10	Pilot Implementation	3.3 wks 46,45	Thu 11/14/13													
3 4	4.6	Blocks A-I Remediation Design	42.4 wks	Mon 9/16/13						•							
	6.1	Remedial Design Details	12.4 wks 35	Thu 11/28/13													
	6.2	Submit RD Details	0 wks 49	Fri 2/21/14	I I				▲								
	6.3	Review and Comment	0.8 wks 50	Mon 2/24/14					I T								
2 4.6		Surveying & Interviews	34 wks	Mon 9/16/13	I I												
3 4.6	6.5	Parcel Designs & Remediation Agreements	28 wks	Mon 12/2/13	Fri 6/13/14												
bject File: te: Fri 1/16 ge 1 of 4		Schedule 20150116 Red text used for current	tasks Task		Milestone ♦		Sum	mary 🛡									

Project File: RD Schedule 20150116
Date: Fri 1/16/15
Project File: RD Schedule 20150116 Date: Fri 1/16/15 Page 1 of 4

D WBS	Task Name	Duration Predecessors	Start	Finish	2013	2014	2015	2016 r 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4	2017	2018
4.6.6	Final Design and RAWP	19.6 wks	Fri 2/21/14	Tue 7/8/14	4 Qtr 1 Qtr 2 Qtr 3 Qtr 4		Qtr 1 Qtr 2 Qtr 3 Qt	r 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4	4 Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3
5 4.6.6.1	U	0 wks	Fri 2/21/14	Fri 2/21/14						
4.6.6.2		1 wk 55	Fri 2/21/14	Thu 2/27/14						
4.6.6.3	Submit Pre-Final Designs & RAWP: Blocks E&F	0 wks	Fri 3/7/14	Fri 3/7/14						
4.6.6.4	Final Design and RAWP Approval: Blocks E&F	1 day 57	Fri 3/7/14	Fri 3/7/14		I ↓				
4.6.6.5	Submit Pre-Final Designs & RAWP: Block D	0 wks	Thu 4/3/14	Thu 4/3/14		↓				
4.6.6.6	Final Design and RAWP Approval: Block D	2 days 59	Thu 4/3/14	Fri 4/4/14						
4.6.6.7	Submit Pre-Final Designs & RAWP: Block C	0 wks 59FF+4 wks	Wed 4/30/14	Wed 4/30/14						
4.6.6.8	Final Design and RAWP Approval: Block C	0 wks 61	Wed 4/30/14	Wed 4/30/14		♦ ♦				
4.6.6.9	Submit Pre-Final Designs & RAWP: Block B	0 wks 61FF+3.1 wks	Thu 5/22/14	Thu 5/22/14						
4.6.6.10	Final Design and RAWP Approval: Block B	0.6 wks 63	Thu 5/22/14	Tue 5/27/14						
4.6.6.11	Submit Pre-Final Designs & RAWP: Block A	0 wks 63FF+3 wks	Thu 6/12/14	Thu 6/12/14						
4.6.6.12	Final Design and RAWP Approval: Block A	0.6 wks 65	Thu 6/12/14	Tue 6/17/14						
4.6.6.13	Submit Pre-Final Designs & RAWP: Block I	0 wks 65FF+3.5 wks	Mon 7/7/14	Mon 7/7/14		▲				
4.6.6.14	Final Design and RAWP Approval: Block I	0.2 wks 67	Tue 7/8/14	Tue 7/8/14						
4.7	Sampling for Refinement of Remediation Parcels (Feb 2014)	24.8 wks	Wed 2/19/14	Tue 8/12/14		~				
4.7.1		0.2 wks	Wed 2/19/14	Wed 2/19/14		↓				
4.7.2		7.2 wks 70	Thu 2/20/14	Thu 4/10/14						
4.7.3		16 wks 71	Fri 4/11/14	Thu 7/31/14						
		0 wks 72	Thu 7/31/14	Thu 7/31/14						
4.7.5		0 wks 73	Tue 8/12/14	Tue 8/12/14		•				
4.8	0	12.2 wks	Mon 6/2/14 Mon 6/2/14	Mon 8/25/14 Fri 6/13/14						
4.8.1			Mon 6/2/14 Mon 6/16/14	Fri 7/18/14						
4.8.2		5 wks 76 5 wks 77SS+1 wk	Mon 6/23/14	Fri 7/25/14						
4.8.4		7 wks 78SS+1 wk	Mon 6/30/14	Fri 8/15/14						
4.8.5		0 wks	Fri 7/25/14	Fri 7/25/14						
4.8.6		1 wk 80	Fri 7/25/14	Thu 7/31/14						
4.8.7	- · · ·	0 days 79	Wed 8/20/14	Wed 8/20/14						
4.8.8		4 days 82	Wed 8/20/14	Mon 8/25/14						
4.9		16.4 wks	Fri 10/25/13	Tue 2/18/14						
4.9.1	, , , , , , , , , , , , , , , , , , , ,	2 days	Fri 10/25/13			•				
4.9.2		2 days	Fri 1/17/14	Mon 1/20/14	·					
4.9.3		0 wks	Tue 2/18/14			•				
4.10		39 wks	Mon 2/17/14	Fri 11/14/14						
9 4.11		0 wks 88	Tue 11/18/14							
4.12		13 wks 88	Mon 11/17/14	Fri 2/13/15						
4.13	Submit Implementation Report	0 wks 90	Fri 2/13/15	Fri 2/13/15						
2										
3 5	Cutoff Wall and Stormwater Controls: DESIGN TRACK #2	61 wks	Wed 12/17/14	Tue 2/16/16						
5.1	Pre-Design Work Plan	10 wks 15	Wed 12/17/14	Tue 2/24/15						
5.2	Submit Pre-Design Work Plan	0 wks 94	Tue 2/24/15	Tue 2/24/15						
5.3	Review and Approval	3 wks 95	Wed 2/25/15	Tue 3/17/15						
5 .4	EPA Approval of Pre-Design Work Plan	0 wks 96	Tue 3/17/15	Tue 3/17/15						
	Pre-Design Investigation	13 wks 97	Wed 3/18/15							
) 5.6	, 0	5 wks 98	Wed 6/17/15	Tue 7/21/15						
0 5.7	, , ,	0 wks 99	Tue 7/21/15							
1 5.8		4 wks 100	Wed 7/22/15							
2 5.9		5 wks 101	Wed 8/19/15							
3 5.10		5 wks 102	Wed 9/23/15					•		
4 5.11	-	5 wks 103	Wed 10/28/15							
5 5.12		3 wks 104	Wed 12/2/15							
5.13		0 wks 105	Tue 12/22/15							
7 5.14	Prepare RAWP	8 wks 106	Wed 12/23/15	Tue 2/16/16						

				GAINESV	/ILLE	REMEDIAL DE	SIGN						
ID	WBS Task Name	Duration P	redecessors Start	Finish	tr 4	201	3 Otr 3 Otr 4	2014 Otr 1 Otr 2 Otr 3 Otr	4 Qtr 1	2015 Otr 2 Otr 3 Otr 4	2016 Otr 1 Otr 2 Otr 3 O	2017 tr 4 Qtr 1 Qtr 2 Qtr 3 Qtr	2018 4 Otr 1 Otr 2 Otr 3
108	5.15 Submit RAWP	0 wks 10	07 Tue 2/16/16	Tue 2/16/16							•		
109 110	6 In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3	161.6 wks	Thu 2/7/13	Mon 3/14/16									
111		113.8 wks	Thu 2/7/13	Tue 4/14/15	4					-	•		
112	6.1.1 EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks	Thu 2/7/13	Thu 2/7/13		•				ľ			
113	6.1.2 Preliminary Design (included in Demonstration Work Plan)	0 wks	Thu 2/7/13	Thu 2/7/13		•							
114	6.1.3 Characterization and DNAPL Recovery (began 2012)	32 wks	Thu 2/7/13	Wed 9/18/13									
115	6.1.4 Characterization Report and Pilot Test Plan	11.8 wks 1		Tue 12/10/13									
116	6.1.5 Submit Characterization Report and Pilot Test Plan	0 wks 1			4		•						
117	6.1.6 Review and Approval of Pilot Test Plan	10 wks 1											
118	6.1.7 Technical Working Group Meeting	0 wks			4								
119	6.1.8 Pilot Injection Testing	15 wks 1 ² 1 wk	17 Mon 3/17/14 Mon 3/17/14	Fri 6/27/14	4								
120 121	6.1.8.1 Pre-Pilot Testing & Chemical Delivery 6.1.8.2 Pilot Injections	3 wks 12		Fri 3/21/14 Fri 4/11/14									
	6.1.8.3 Borings in Injection Area		20 Mon 3/24/14 21FS+10 wks Mon 6/23/14	Fri 6/27/14									
122	6.1.9 Technical Working Group Meeting	0 wks	Thu 7/10/14	Thu 7/10/14									
123	6.1.10 Pre-Final Design	40.4 wks 12		Tue 1/20/15									
125	6.1.11 Submit Pre-Final Design	0 wks 12		Tue 1/20/15	5								
126	6.1.12 Review and Comment	5 wks 12		Tue 2/24/15									
127	6.1.13 Final Design and RAWP	3 wks 12		Tue 3/17/15									
128	6.1.14 Submit Final Design and RAWP	0 wks 12		Tue 3/17/15	4					<u>×</u>			
129	6.1.15 Review	4 wks 12	28 Wed 3/18/15	Tue 4/14/15						*			
130	6.1.16 EPA Approval of Final Design and RAWP	0 wks 12	29 Tue 4/14/15	Tue 4/14/15									
131	6.2 South Lagoon	80 wks	Tue 9/2/14	Mon 3/14/16									
132	6.2.1 Preliminary Design & Design Investigation Work Plan	24 wks	Tue 9/2/14	Mon 2/16/15									
133	6.2.2 Submit Preliminary Design & Design Investigation Work Plan	0 wks 13		Mon 2/16/15	4					-			
134	6.2.3 Review and Approval Preliminary Design & Design Investigation Work Plan	3 wks 13	33 Tue 2/17/15	Mon 3/9/15									
135	6.2.4 Installation of Borings and DNAPL Recovery Wells	8 wks 13		Mon 5/4/15									
136	6.2.5 Collection of Baseline Data	20 wks 13		Mon 9/21/15	-								
137	6.2.6 Pre-Final Design	6 wks 13		Mon 11/2/15	4								
138 139	6.2.7 Submit Pre-Final Design 6.2.8 Review and Comment	0 wks 13 6 wks 13											
140	6.2.9 Final Design	4 wks 1		Mon 1/11/16	-								
141	6.2.10 Submit Final Design	0 wks 14			4								
142	6.2.11 Review	4 wks 14		Mon 2/8/16									
143	6.2.12 EPA Approval of Final Design	0 wks 14	42 Mon 2/8/16	Mon 2/8/16									
144	6.2.13 Prepare RAWP	5 wks 14	43 Tue 2/9/16	Mon 3/14/16									
145	6.2.14 Submit RAWP	0 wks 14	44 Mon 3/14/16	Mon 3/14/16							•		
146										<u> </u>			
147	7 In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4	152 wks	Mon 4/6/15	Fri 3/2/18						¥			
148 149	7.1 Pre-Design Investigation & Treatability Test Workplan 7.2 Beazer Submit Pre-Design Investigation & Treatability Test WP	13 wks 1		Fri 7/3/15 Fri 7/3/15									
149	7.2 Beazer Submit Pre-Design Investigation & Treatability Test WP 7.3 Review and Approval	0 wks 14 8 wks 14		Fri 8/28/15						*			
150	7.4 Conduct Pre-Design Investigation & Treatability Test	34 wks 14		Fri 4/22/16	4								
152	7.5 Pilot Test Workplan	12 wks 1		Fri 7/15/16									
152	7.6 Beazer Submit Pilot Test Workplan	0 wks 1		Fri 7/15/16	4								
154	7.7 Review and Approval	8 wks 1		Fri 9/9/16									
155	7.8 Conduct Pilot Test	13 wks 1		Fri 12/9/16	4								
156	7.9 Preliminary Design	13 wks 1		Fri 3/10/17									
157	7.10 Submit Preliminary Design	0 wks 1	56 Fri 3/10/17	Fri 3/10/17									
158	7.11 Review and Comment	10 wks 1		Fri 5/19/17	-								
159	7.12 Pre-Final Design	13 wks 1		Fri 8/18/17									
160	7.13 Review and Comment	10 wks 1		Fri 10/27/17	4								
161	7.14 Final Design	6 wks 10	60 Mon 10/30/17	Fri 12/8/17	1								h
Project Date: F Page 3	t File: RD Schedule 20150116 Red text used for current ta Fri 1/16/15 3 of 4	asks Tas	k	Milestone 🔶		S	Summary 🛡						

						GAINESV	SVILLE REMEDIAL DESIGN						
ID	WBS T	ask Name	Duration	Predecessors	Start	Finish		2013		2014	2015		
162	7.15	Review and Approval	4 wks	161	Mon 12/11/17	Fri 1/5/18	tr 4 Qt	1 Qtr 2 Q	<u>tr 3 Qtr 4</u>	Qtr 1 Qtr 2 Qtr 3 Qtr 4	<u>Qtr 1 Qtr 2 Qtr 3 Qtr 4</u>	Qtr	
163	7.16	EPA Approval of Final Design	0 wks		Fri 1/5/18	Fri 1/5/18							
164	7.17	Prepare RAWP	8 wks		Mon 1/8/18	Fri 3/2/18							
165	7.18	Submit RAWP	0 wks		Fri 3/2/18	Fri 3/2/18							
166													
167	80	Other Engineered Components: DESIGN TRACK #5	87 wks		Mon 1/4/16	Fri 9/1/17						<u></u>	
168	8.1	Pre-Design Work Plan	6 wks		Mon 1/4/16	Fri 2/12/16							
169	8.2	Submit Pre-Design Work Plan	0 wks	168	Fri 2/12/16	Fri 2/12/16							
170	8.3	Review and Approval	6 wks	169	Mon 2/15/16	Fri 3/25/16							
171	8.4	EPA Approval of Pre-Design Work Plan	0 wks	170	Fri 3/25/16	Fri 3/25/16							
172	8.5	Pre-Design Investigation	26 wks	171	Mon 3/28/16	Fri 9/23/16							
173	8.6	Preliminary Design	6 wks	172	Mon 9/26/16	Fri 11/4/16							
174	8.7	Submit Preliminary Design	0 wks	173	Fri 11/4/16	Fri 11/4/16							
175	8.8	Review and Comment	6 wks	174	Mon 11/7/16	Fri 12/16/16							
176	8.9	Pre-Final Design	13 wks	175	Mon 12/19/16	Fri 3/17/17							
177	8.10	Review and Comment	6 wks	176	Mon 3/20/17	Fri 4/28/17							
178	8.11	Final Design	6 wks	177	Mon 5/1/17	Fri 6/9/17							
179	8.12	Review	4 wks	178	Mon 6/12/17	Fri 7/7/17							
180	8.13	EPA Approval of Final Design	0 wks	179	Fri 7/7/17	Fri 7/7/17							
181	8.14	Prepare RAWP	8 wks	180	Mon 7/10/17	Fri 9/1/17							
182	8.15	Submit RAWP	0 wks	181	Fri 9/1/17	Fri 9/1/17							
183													
184	9 li	nstitutional Control	138.8 wks		Tue 7/9/13	Fri 3/4/16		-	_			-	
185	9.1	Prepare Institutional Control Implementation and Assurance Plan (ICIAP)	6.8 wks	5	Tue 7/9/13	Fri 8/23/13			٦				
186	9.2	Submit ICIAP	0 wks	185	Fri 8/23/13	Fri 8/23/13			*				
187	9.3	Review	12.5 wks	186	Mon 8/26/13	Wed 11/20/13							
188	9.4	Beazer Respond to Comments	8 wks	187	Mon 1/26/15	Fri 3/20/15							
189	9.5	Beazer Submit Responses & ICIAP Version 2	0 wks	188	Fri 3/20/15	Fri 3/20/15							
190	9.6	Review	3 wks	189	Mon 3/23/15	Fri 4/10/15							
191	9.7	EPA and FDEP Approval of ICIAP	0 wks	190	Fri 4/10/15	Fri 4/10/15							
192	9.8	Implement Beazer-Property Restrictive Covenant	47 wks		Mon 4/13/15	Fri 3/4/16						-	
193	9.8.1	Draft Proprietary Controls Package	13 wks	191	Mon 4/13/15	Fri 7/10/15							
194	9.8.2	Submit Draft Proprietary Controls Package	0 wks	193	Fri 7/10/15	Fri 7/10/15							
195	9.8.3	Review and Updating	8 wks	194	Mon 7/13/15	Fri 9/4/15							
196	9.8.4	Update Title Search and Prepare Public Notice	8 wks	195	Mon 9/7/15	Fri 10/30/15							
197	9.8.5	Beazer Publish Public Notice	0 wks		Fri 10/30/15	Fri 10/30/15							
198	9.8.6	Public Comment Period	4.4 wks	197	Mon 11/2/15	Tue 12/1/15							
199	9.8.7	Address Comments and Exectute Restrictive Covenant	5 wks	198	Wed 12/2/15	Tue 1/5/16							
200	9.8.8	Record Restrictive Covenant at Alacha County Clerk of Court	0 wks	199	Tue 1/5/16	Tue 1/5/16							
201	9.8.9	Prepare Final Proprietary Controls Package	8.6 wks	200	Wed 1/6/16	Fri 3/4/16							
202	9.8.10	Submit Final Proprietary Controls Package	0 wks	201	Fri 3/4/16	Fri 3/4/16							

