



February 10, 2015

Scott Miller  
Remedial Project Manager  
Superfund Remedial Branch, Section C  
U.S. Environmental Protection Agency, Region 4  
61 Forsyth Street SW  
Atlanta, GA 30303-8909

**VIA EMAIL**

**Subject: January 2015 Monthly Progress Report**

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), attached is the January 2015 Monthly Progress Report for the Koppers portion of the Cabot/Koppers Superfund Site in Gainesville, Florida. If you have any questions or comments, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Gregory W. Council'.

Gregory W. Council, P.E.  
Principal Engineer

cc: Rusty Kestle, EPA  
Kelsey Helton, FDEP  
John Mousa, ACEPD  
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

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

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**1. Compliance Actions:**

- Beazer's Operation and Maintenance (O&M) Contractor performed routine treatment plant O&M services for the groundwater extraction and pretreatment system.
- Remedial Design and Remedial Action activities are presently being conducted.

**2. Sampling/Test Results and Data:**

- Instantaneous flow rates and totalizer volumes were measured in each extraction well.
- The bi-weekly passive NAPL recovery program continues at Upper Hawthorn monitoring wells: 2.45 gallons of NAPL were removed from Upper Hawthorn wells during the past month (2 recovery events). A total of 585 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. Two NAPL recovery events were conducted during the month, resulting in a total of 109.1 gallons removed.
- NAPL was removed from five Upper Hawthorn recovery wells installed in the Former Process Area as part of the ISGS program (Table 3). Two NAPL recovery events were conducted during the month, resulting in 26.9 gallons removed.
- A total of 3,908,629 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 740 hours). The average recovery rate for the month was approximately 88.0 gallons per minute (gpm). The recovery for each component is listed below.
  - Surficial Aquifer
    - Perimeter Extraction Wells: 568,131 gallons
    - Former North Lagoon Drain: 414,250 gallons
    - Former Drip Track Drain: 462,510 gallons
    - Former Process Area Drain: 421,820 gallons
    - Former South Lagoon Drain: 423,760 gallons
  - Upper Floridan Extraction Wells
    - FW-6: 39,877 gallons
    - FW-21B: 161,684 gallons
    - FW-31BE: 940,650 gallons
    - FW-32BE: 475,947 gallons

Approximately 351.98 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 4,115,600 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 5 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) January 30, 2015.
- Periodic maintenance checks and inspections.
- Treatment-plant component maintenance and repair as needed (caustic pump, carbon vessel gaskets and gauges, sludge pump diverter valve, bag filter vessel).
- Cleaned/repared plant sump pump.
- Cleaned EW-16 flow meter.
- Repaired North Lagoon trench flow meter.
- Repaired 6" irrigation line.
- Irrigation Breakthrough sampling on Jan 5, 2015.
- Carbon A and C sampling Jan 27, 2015.
- Shipped 6 drums of PPE, 35 drums of treatment sludge, and 12 drums of DNAPL on Jan 21, 2015.
- 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.

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

Well ID	Total Last Month (gal) (2 events) December 2014	DNAPL Volume (gal) 1/8/2015	DNAPL Volume (gal) 1/22/2015	Total This Month (gal) January 2015
HG-9S	0	Stain	Stain	0
HG-10S	0	Stain	Stain	0
HG-10D	0	Stain	Stain	0
HG-11S	0.6	0.4	0.4	0.8
HG-12S	0.8	0.4	0.4	0.8
HG-12D	0	ND	ND	0
HG-15S	0.7	0.25	0.2	0.45
HG-16S	0	Stain	0.4	0.4
HG-16D	0	Stain	Stain	0
MW-22B	0	Stain	Stain	0
Total	2.1	1.05	1.4	2.45
Cumulative Total	582.56			585.01

ND - No DNAPL Detected

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

Well ID	Total Last Month (gal) (3 events) December 2014	DNAPL Volume (gal) 1/14/2015	DNAPL Volume (gal) 1/28/2015	Total This Month (gal) January 2015
220N 180E	6.7	2.2	2.1	4.3
280N 380E	9.7	3.5	3.7	7.2
300N 180E	13.7	4.7	4.4	9.1
300N 420E	10.2	3.6	3.5	7.1
320N 220E	8.4	3.0	2.9	5.9
320N 300E	9.2	3.0	2.8	5.8
340N 340E	15.9	5.2	5.2	10.4
360N 280E	11	3.7	3.5	7.2
380N 340E	16.7	5.3	5.5	10.8
400N 380E	4.1	1.5	1.5	3
460N 340E	4.2	1.3	1.5	2.8
420N 340E *	11.1	3.5	3.4	6.9
220N 340E	2.7	1.2	1	2.2
240N 380E	4.2	1.6	1	2.6
340N 180E	2.3	0.8	0.7	1.5
320N 140E	1.8	0.7	0.7	1.4
300N 260E	3.2	1.2	1.2	2.4
360N 140E	0.7	0.3	0.3	0.6
400N 140E	0.4	0.2	0.3	0.5
200N 220E	2.6	1.0	0.8	1.8
280N 220E	3.1	1.2	1	2.2
360N 220E	4	1.4	1.4	2.8
280N 300E	4.4	1.5	1.5	3
360N 380E	10	3.5	3.4	6.9
507N 260E	0.4	0	0	0
Drip Track	1	0.3	0.4	0.7
Total	114.1			109.1

NP - Not Pumped

\* Inside ISGS Pilot Test Area

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

Well ID	Total Last Month (gal) (2 events) December 2014	DNAPL Volume (gal) 1/7/2015	DNAPL Volume (gal) 1/21/2015	Total This Month (gal) January 2015
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 *	2.6	1.5	1.5	3.0
HG-37SE	4.4	2.1	2.1	4.2
HG-38SE	9.8	4.1	4.6	8.7
HG-39SE	5.6	2.9	2.9	5.8
HG-40SE	5.1	2.6	2.6	5.2
Total	27.5			26.9

NR - No Recovery

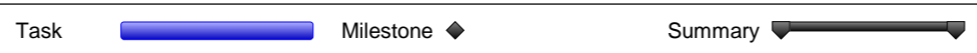
\* Inside ISGS Pilot Test Area

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2013				2014				2015				2016				2017				2018							
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4			
1		<b>1 Consent Decree for RD/RA</b>	<b>23.8 wks</b>		<b>Thu 2/7/13</b>	<b>Wed 7/24/13</b>																												
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																												
6	1.5	EPA Issues Authorization to Proceed with Remedial Design	0 days		Wed 7/24/13	Wed 7/24/13																												
7																																		
8		<b>2 Remedial Design Work Plan (RDWP)</b>	<b>22.3 wks</b>		<b>Wed 7/24/13</b>	<b>Thu 12/26/13</b>																												
9	2.1	Prepare RDWP	43 days	6	Wed 7/24/13	Fri 9/20/13																												
10	2.2	Beazer Submit RDWP	0 wks	9	Fri 9/20/13	Fri 9/20/13																												
11	2.3	EPA Review and Comment RDWP	6.8 wks	10	Mon 9/23/13	Thu 11/7/13																												
12	2.4	Beazer Respond to Comments	4.3 wks	11	Fri 11/8/13	Mon 12/9/13																												
13	2.5	Beazer Submit Responses and RDWP Version 2	0 wks	12	Mon 12/9/13	Mon 12/9/13																												
14	2.6	EPA Review	2.6 wks	13	Mon 12/9/13	Thu 12/26/13																												
15	2.7	EPA Approval RDWP	0 wks	14	Thu 12/26/13	Thu 12/26/13																												
16																																		
17		<b>3 Supporting Plans for RD/RA</b>	<b>75 wks</b>		<b>Fri 9/20/13</b>	<b>Fri 2/27/15</b>																												
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																												
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	8 wks		Mon 1/5/15	Fri 2/27/15																												
24	3.7	Beazer Submit Revised QAPP	0 wks	23	Fri 2/27/15	Fri 2/27/15																												
25																																		
26		<b>4 Off-Property Soil Replacement (OU-5): DESIGN TRACK #1</b>	<b>96.8 wks</b>		<b>Tue 4/30/13</b>	<b>Fri 3/6/15</b>																												
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	<b>4.4 Sampling for Refinement of Remediation Parcels (July 2013)</b>	<b>18.8 wks</b>		<b>Fri 7/19/13</b>	<b>Wed 11/27/13</b>																												
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	4.4.4	Analysis and Validation	6.2 wks	33	Thu 8/1/13	Thu 9/12/13																												
35	4.4.5	Data Summary Report	10.8 wks	34	Fri 9/13/13	Wed 11/27/13																												
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	<b>4.5 Pilot Home Soil Replacement</b>	<b>10.3 wks</b>		<b>Thu 9/26/13</b>	<b>Fri 12/6/13</b>																												
38	4.5.1	Survey	1.8 wks		Thu 9/26/13	Tue 10/8/13																												
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	4.5.4	Sample Analysis	2 wks	40	Thu 10/24/13	Wed 11/6/13																												
42	4.5.5	Pilot Plan	6 wks		Thu 9/26/13	Wed 11/6/13																												
43	4.5.6	Submit Pilot Plan	0 wks	42,41	Wed 11/6/13	Wed 11/6/13																												
44	4.5.7	Review	1 wk	43	Thu 11/7/13	Wed 11/13/13																												
45	4.5.8	EPA Approval of Pilot Plan	0 wks	44	Wed 11/13/13	Wed 11/13/13																												
46	4.5.9	Permitting	2 wks	45FF	Thu 10/31/13	Wed 11/13/13																												
47	4.5.10	Pilot Implementation	3.3 wks	46,45	Thu 11/14/13	Fri 12/6/13																												
48	4.6	<b>4.6 Blocks A-I Remediation Design</b>	<b>42.4 wks</b>		<b>Mon 9/16/13</b>	<b>Tue 7/8/14</b>																												
49	4.6.1	Remedial Design Details	12.4 wks	35	Thu 11/28/13	Fri 2/21/14																												
50	4.6.2	Submit RD Details	0 wks	49	Fri 2/21/14	Fri 2/21/14																												
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

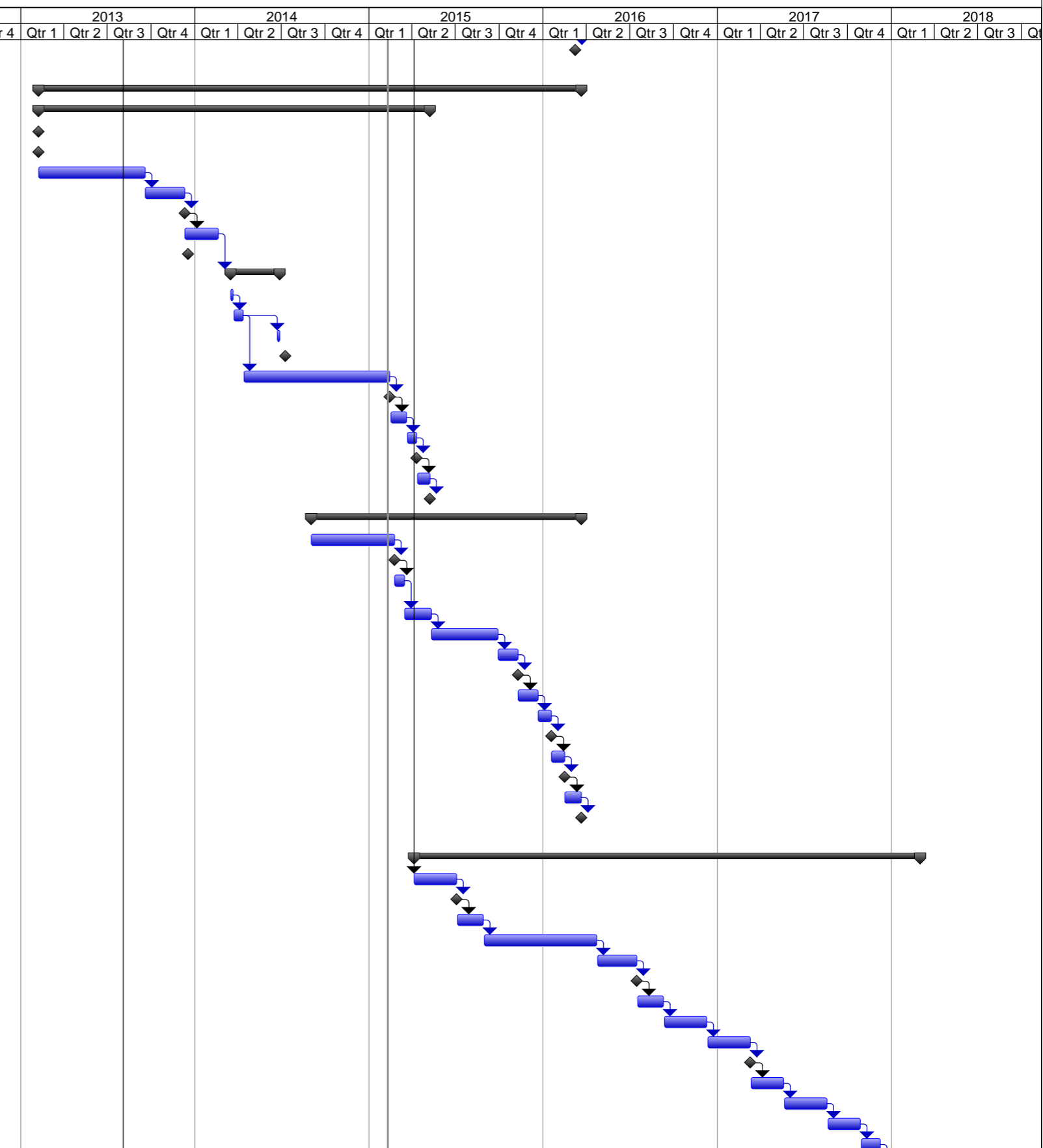
ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2013				2014				2015				2016				2017				2018			
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
54	4.6.6	<b>Final Design and RAWP</b>	<b>19.6 wks</b>		<b>Fri 2/21/14</b>	<b>Tue 7/8/14</b>																								
55	4.6.6.1	Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks		Fri 2/21/14	Fri 2/21/14																								
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	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	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	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 wks	Thu 5/22/14	Thu 5/22/14																								
64	4.6.6.10	Final Design and RAWP Approval: Block B	0.6 wks	63	Thu 5/22/14	Tue 5/27/14																								
65	4.6.6.11	Submit Pre-Final Designs & RAWP: Block A	0 wks	63FF+3 wks	Thu 6/12/14	Thu 6/12/14																								
66	4.6.6.12	Final Design and RAWP Approval: Block A	0.6 wks	65	Thu 6/12/14	Tue 6/17/14																								
67	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																								
68	4.6.6.14	Final Design and RAWP Approval: Block I	0.2 wks	67	Tue 7/8/14	Tue 7/8/14																								
69	4.7	<b>Sampling for Refinement of Remediation Parcels (Feb 2014)</b>	<b>24.8 wks</b>		<b>Wed 2/19/14</b>	<b>Tue 8/12/14</b>																								
70	4.7.1	Beazer & EPA Sampling	0.2 wks		Wed 2/19/14	Wed 2/19/14																								
71	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	Fri 4/11/14	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	<b>Blocks J &amp; K Remediation Design</b>	<b>12.2 wks</b>		<b>Mon 6/2/14</b>	<b>Mon 8/25/14</b>																								
76	4.8.1	Access Agreements for Design	2 wks		Mon 6/2/14	Fri 6/13/14																								
77	4.8.2	Surveying & Interviews	5 wks	76	Mon 6/16/14	Fri 7/18/14																								
78	4.8.3	Preliminary Design	5 wks	77SS+1 wk	Mon 6/23/14	Fri 7/25/14																								
79	4.8.4	Pre-Final Design and Access	7 wks	78SS+1 wk	Mon 6/30/14	Fri 8/15/14																								
80	4.8.5	RAWP: Block J	0 wks		Fri 7/25/14	Fri 7/25/14																								
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	4.8.8	Final Design and RAWP Approval: Block K	4 days	82	Wed 8/20/14	Mon 8/25/14																								
84	4.9	<b>Community Meetings</b>	<b>16.4 wks</b>		<b>Fri 10/25/13</b>	<b>Tue 2/18/14</b>																								
85	4.9.1	Community Meeting: Landscaping Workshop - City (Oct 26)	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	4.11	Pre-Final Inspection	0 wks	88	Tue 11/18/14	Tue 11/18/14																								
90	4.12	Prepare Implementation Report	16 wks	88	Mon 11/17/14	Fri 3/6/15																								
91	4.13	Submit Implementation Report	0 wks	90	Fri 3/6/15	Fri 3/6/15																								
92																														
93	5	<b>Cutoff Wall and Stormwater Controls: DESIGN TRACK #2</b>	<b>64 wks</b>		<b>Wed 12/17/14</b>	<b>Tue 3/8/16</b>																								
94	5.1	Pre-Design Work Plan	13 wks	15	Wed 12/17/14	Tue 3/17/15																								
95	5.2	Submit Pre-Design Work Plan	0 wks	94	Tue 3/17/15	Tue 3/17/15																								
96	5.3	Review and Approval	3 wks	95	Wed 3/18/15	Tue 4/7/15																								
97	5.4	EPA Approval of Pre-Design Work Plan	0 wks	96	Tue 4/7/15	Tue 4/7/15																								
98	5.5	Pre-Design Investigation	13 wks	97	Wed 4/8/15	Tue 7/7/15																								
99	5.6	Preliminary Design	5 wks	98	Wed 7/8/15	Tue 8/11/15																								
100	5.7	Submit Preliminary Design	0 wks	99	Tue 8/11/15	Tue 8/11/15																								
101	5.8	Review and Comment	4 wks	100	Wed 8/12/15	Tue 9/8/15																								
102	5.9	Pre-Final Design	5 wks	101	Wed 9/9/15	Tue 10/13/15																								
103	5.10	Review and Comment	5 wks	102	Wed 10/14/15	Tue 11/17/15																								
104	5.11	Final Design	5 wks	103	Wed 11/18/15	Tue 12/22/15																								
105	5.12	Review	3 wks	104	Wed 12/23/15	Tue 1/12/16																								
106	5.13	EPA Approval of Final Design	0 wks	105	Tue 1/12/16	Tue 1/12/16																								
107	5.14	Prepare RAWP	8 wks	106	Wed 1/13/16	Tue 3/8/16																								





GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	2013				2014				2015				2016				2017				2018										
							Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4						
108	5.15	Submit RAWP	0 wks	107	Tue 3/8/16	Tue 3/8/16																															
109																																					
110	<b>6</b>	<b>In-Situ Geochemical Stabilization (ISGS): DESIGN TRACK #3</b>	<b>162.6 wks</b>		<b>Thu 2/7/13</b>	<b>Mon 3/21/16</b>																															
111	<b>6.1</b>	<b>Process Area</b>	<b>117.4 wks</b>		<b>Thu 2/7/13</b>	<b>Fri 5/8/15</b>																															
112	6.1.1	EPA Approval of ISGS Demonstration Work Plan (2012)	0 wks		Thu 2/7/13	Thu 2/7/13																															
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	114	Thu 9/19/13	Tue 12/10/13																															
116	6.1.5	Submit Characterization Report and Pilot Test Plan	0 wks	115	Tue 12/10/13	Tue 12/10/13																															
117	6.1.6	Review and Approval of Pilot Test Plan	10 wks	116	Wed 12/11/13	Tue 2/18/14																															
118	6.1.7	Technical Working Group Meeting	0 wks		Wed 12/18/13	Wed 12/18/13																															
119	<b>6.1.8</b>	<b>Pilot Injection Testing</b>	<b>15 wks</b>	117	<b>Mon 3/17/14</b>	<b>Fri 6/27/14</b>																															
120	6.1.8.1	Pre-Pilot Testing & Chemical Delivery	1 wk		Mon 3/17/14	Fri 3/21/14																															
121	6.1.8.2	Pilot Injections	3 wks	120	Mon 3/24/14	Fri 4/11/14																															
122	6.1.8.3	Borings in Injection Area	1 wk	121FS+10 wks	Mon 6/23/14	Fri 6/27/14																															
123	6.1.9	Technical Working Group Meeting	0 wks		Thu 7/10/14	Thu 7/10/14																															
124	<b>6.1.10</b>	<b>Pre-Final Design</b>	<b>44 wks</b>	121	<b>Mon 4/14/14</b>	<b>Fri 2/13/15</b>																															
125	6.1.11	Submit Pre-Final Design	0 wks	124	Fri 2/13/15	Fri 2/13/15																															
126	6.1.12	Review and Comment	5 wks	125	Mon 2/16/15	Fri 3/20/15																															
127	6.1.13	Final Design and RAWP	3 wks	126	Mon 3/23/15	Fri 4/10/15																															
128	6.1.14	Submit Final Design and RAWP	0 wks	127	Fri 4/10/15	Fri 4/10/15																															
129	6.1.15	Review	4 wks	128	Mon 4/13/15	Fri 5/8/15																															
130	6.1.16	EPA Approval of Final Design and RAWP	0 wks	129	Fri 5/8/15	Fri 5/8/15																															
131	<b>6.2</b>	<b>South Lagoon</b>	<b>81 wks</b>		<b>Tue 9/2/14</b>	<b>Mon 3/21/16</b>																															
132	<b>6.2.1</b>	<b>Preliminary Design &amp; Design Investigation Work Plan</b>	<b>25 wks</b>		<b>Tue 9/2/14</b>	<b>Mon 2/23/15</b>																															
133	6.2.2	Submit Preliminary Design & Design Investigation Work Plan	0 wks	132	Mon 2/23/15	Mon 2/23/15																															
134	6.2.3	Review and Approval Preliminary Design & Design Investigation Work Plan	3 wks	133	Tue 2/24/15	Mon 3/16/15																															
135	6.2.4	Installation of Borings and DNAPL Recovery Wells	8 wks	134	Tue 3/17/15	Mon 5/11/15																															
136	6.2.5	Collection of Baseline Data	20 wks	135	Tue 5/12/15	Mon 9/28/15																															
137	6.2.6	Pre-Final Design	6 wks	136	Tue 9/29/15	Mon 11/9/15																															
138	6.2.7	Submit Pre-Final Design	0 wks	137	Mon 11/9/15	Mon 11/9/15																															
139	6.2.8	Review and Comment	6 wks	138	Tue 11/10/15	Mon 12/21/15																															
140	6.2.9	Final Design	4 wks	139	Tue 12/22/15	Mon 1/18/16																															
141	6.2.10	Submit Final Design	0 wks	140	Mon 1/18/16	Mon 1/18/16																															
142	6.2.11	Review	4 wks	141	Tue 1/19/16	Mon 2/15/16																															
143	6.2.12	EPA Approval of Final Design	0 wks	142	Mon 2/15/16	Mon 2/15/16																															
144	6.2.13	Prepare RAWP	5 wks	143	Tue 2/16/16	Mon 3/21/16																															
145	6.2.14	Submit RAWP	0 wks	144	Mon 3/21/16	Mon 3/21/16																															
146																																					
147	<b>7</b>	<b>In-Situ Solidification/Stabilization (ISS/S): DESIGN TRACK #4</b>	<b>152 wks</b>		<b>Mon 4/6/15</b>	<b>Fri 3/2/18</b>																															
148	7.1	Pre-Design Investigation & Treatability Test Workplan	13 wks	15	Mon 4/6/15	Fri 7/3/15																															
149	7.2	Beazer Submit Pre-Design Investigation & Treatability Test WP	0 wks	148	Fri 7/3/15	Fri 7/3/15																															
150	7.3	Review and Approval	8 wks	149	Mon 7/6/15	Fri 8/28/15																															
151	7.4	Conduct Pre-Design Investigation & Treatability Test	34 wks	150	Mon 8/31/15	Fri 4/22/16																															
152	7.5	Pilot Test Workplan	12 wks	151	Mon 4/25/16	Fri 7/15/16																															
153	7.6	Beazer Submit Pilot Test Workplan	0 wks	152	Fri 7/15/16	Fri 7/15/16																															
154	7.7	Review and Approval	8 wks	153	Mon 7/18/16	Fri 9/9/16																															
155	7.8	Conduct Pilot Test	13 wks	154	Mon 9/12/16	Fri 12/9/16																															
156	7.9	Preliminary Design	13 wks	155	Mon 12/12/16	Fri 3/10/17																															
157	7.10	Submit Preliminary Design	0 wks	156	Fri 3/10/17	Fri 3/10/17																															
158	7.11	Review and Comment	10 wks	157	Mon 3/13/17	Fri 5/19/17																															
159	7.12	Pre-Final Design	13 wks	158	Mon 5/22/17	Fri 8/18/17																															
160	7.13	Review and Comment	10 wks	159	Mon 8/21/17	Fri 10/27/17																															
161	7.14	Final Design	6 wks	160	Mon 10/30/17	Fri 12/8/17																															



Red text used for current tasks      Task  Milestone

Summary

