



December 16, 2014

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: **November 2014 Monthly Progress Report**

Dear Mr. Miller:

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

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

**November 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: 1.8 gallons of NAPL were removed from Upper Hawthorn wells during the past month (2 recovery events). A total of 580 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. One new location was added to the list, 507N 260E. Two NAPL recovery events were conducted during the month, resulting in a total of 114.1 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 28.8 gallons removed.
- A total of 3,848,854 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 89.0 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 612,354 gallons
 - Former North Lagoon Drain: 399,510 gallons
 - Former Drip Track Drain: 451,930 gallons
 - Former Process Area Drain: 417,740 gallons
 - Former South Lagoon Drain: 453,450 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 40,115 gallons
 - FW-21B: 106,153 gallons
 - FW-31BE: 896,860 gallons
 - FW-32BE: 470,742 gallons

Approximately 346.98 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 3,610,500 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 6 hours to pump and clean clarifiers and to treat backwash water.

3. Plans, Reports, Deliverables and Procedures Completed:

- Completion of Off-Property soil replacement at Blocks A-K of the Stephen Foster Neighborhood.
- Pre-final inspection of Off-Property soil replacement on Nov 18, 2014.
- Remedial Design/Remedial Action Status Update Meeting (EPA/Beazer) Nov 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).
- Replaced plant sump pump.
- Cleaned EW-16 three times.
- Irrigation Breakthrough sampling on Nov 3, 2014.
- TSE (As, Cr, Cu) sampling event Nov 20, 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.
- Fourth quarter sampling event: Dec 1 - 5, 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 based on recent discussions.

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) (3 events) October 2014	DNAPL Volume (gal) 11/13/2014	DNAPL Volume (gal) 11/26/2014	Total This Month (gal) November 2014
HG-9S	0	Stain	Stain	0
HG-10S	0	Stain	Stain	0
HG-10D	0	Stain	Stain	0
HG-11S	0.9	0.35	0.4	0.75
HG-12S	0.95	0.3	0.3	0.6
HG-12D	0	ND	ND	0
HG-15S	0.7	0.25	0.2	0.45
HG-16S	0.25	Stain	Stain	0
HG-16D	0	Stain	Stain	0
MW-22B	0	Stain	Stain	0
Total	2.8	0.9	0.9	1.8
Cumulative Total	578.66			580.46

ND - No DNAPL Detected

Table 2. DNAPL Recovery Temporary Injection Points (TIPs)

Well ID	Total Last Month (gal) (2 events)	DNAPL Volume (gal)		Total This Month (gal)
	October 2014	11/5/2014	11/19/2014	November 2014
220N 180E	4.8	2.3	2.2	4.5
280N 380E	6.4	3.1	3.2	6.3
300N 180E	9.9	4.6	4.9	9.5
300N 420E	7	3.4	3.6	7
320N 220E	6.1	4.1	3	7.1
320N 300E	5.8	3.2	3.3	6.5
340N 340E	11.1	5.8	5.7	11.5
360N 280E	7	3.6	3.7	7.3
380N 340E	11.1	5.5	5.5	11
400N 380E	2.6	1.4	1.3	2.7
460N 340E	2.9	1.4	1.5	2.9
420N 340E *	8.4	4.9	3.5	8.4
220N 340E	2.2	1.0	1	2
240N 380E	2.9	1.5	1.5	3
340N 180E	3.3	0.8	0.9	1.7
320N 140E	1.3	0.7	0.5	1.2
300N 260E	2	1.0	1	2
360N 140E	0.55	0.3	0.25	0.55
400N 140E	0.4	0.2	0.2	0.4
200N 220E	1.55	0.8	0.75	1.55
280N 220E	2	1.1	1.1	2.2
360N 220E	2.7	1.4	1.5	2.9
280N 300E	2.8	1.4	1.5	2.9
360N 380E	6.8	3.4	3.3	6.7
507N 260E	NP	0.5	0.5	1
Drip Track	0.8	0.7	0.6	1.3
Total	110.2			114.1

NP - Not Pumped

* Inside ISGS Pilot Test Area

Table 3. DNAPL ISGS Recovery Data - DNAPL Recovery Wells

Well ID	Total Last Month (gal) (3 events) October 2014	DNAPL Volume (gal) 11/12/2014	DNAPL Volume (gal) 11/26/2014	Total This Month (gal) November 2014
M-38BE	NR	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 *	3.3	1.2	1.3	2.5
HG-37SE	7.3	2.5	2.4	4.9
HG-38SE	14.5	5.0	5.1	10.1
HG-39SE	8.4	2.8	2.9	5.7
HG-40SE	7.9	2.7	2.9	5.6
Total	41.4			28.8

NR - No Recovery

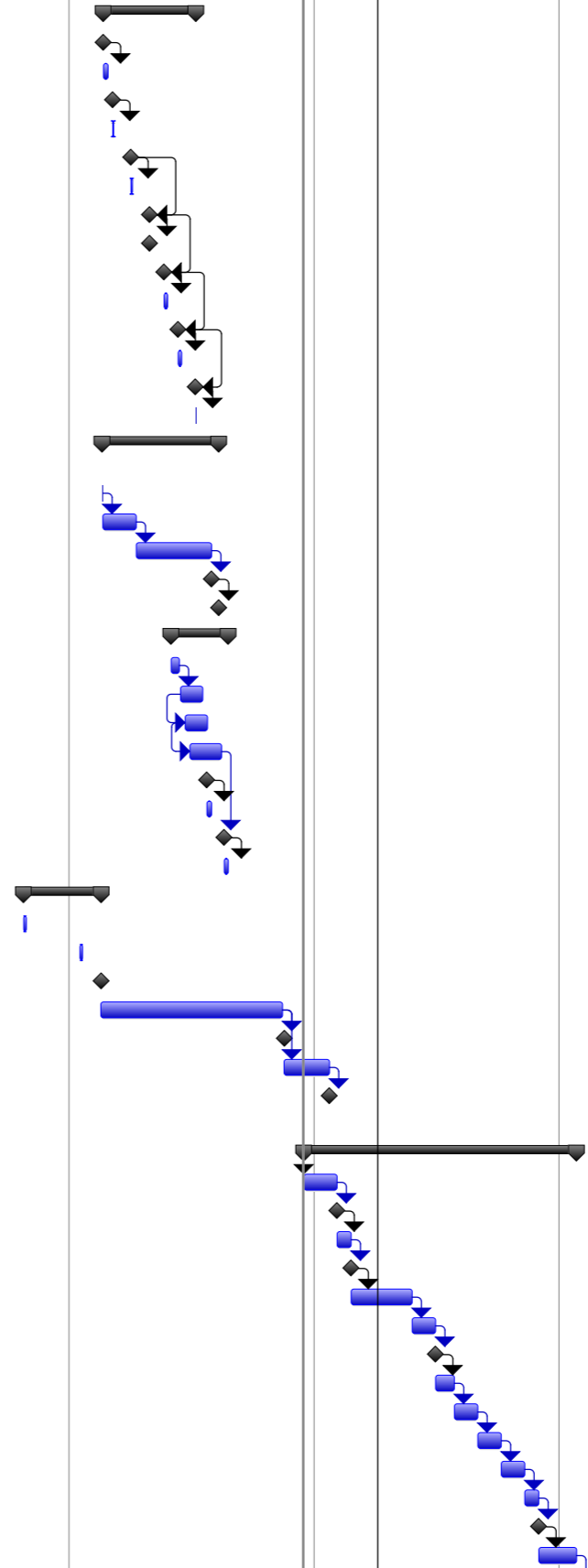
* Inside ISGS Pilot Test Area

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
1	1	Consent Decree for RD/RA	23.8 wks		Thu 2/7/13	Wed 7/24/13																								
2	1.1	US DOJ Lodges Consent 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	2	Remedial Design Work Plan (RDWP)	22.3 wks		Wed 7/24/13	Thu 12/26/13																								
9	2.1	Prepare RDWP	43 days	6	Wed 7/24/13	Fri 9/20/13																								
10	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	3	Supporting Plans for RD/RA	32.2 wks		Fri 9/20/13	Mon 5/5/14																								
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	Quality Assurance Project Plan (update)	4 wks		Mon 2/24/14	Fri 3/21/14																								
24	3.7	Data Management Plan	3 wks	23	Mon 3/24/14	Fri 4/11/14																								
25																														
26	4	Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	90.8 wks		Tue 4/30/13	Fri 1/23/15																								
27	4.1	Initial Identification of Remediation & Evaluation Parcels	0 wks		Tue 4/30/13	Tue 4/30/13																								
28	4.2	Obtain Access Agreements for Surveys & Sampling	23 wks		Thu 5/2/13	Wed 10/9/13																								
29	4.3	Community Information Session	0 wks		Thu 5/30/13	Thu 5/30/13																								
30	4.4	Sampling for Refinement of Remediation Parcels (July 2013)	18.8 wks		Fri 7/19/13	Wed 11/27/13																								
31	4.4.1	Proposal for Sampling (July 2013)	0 wks		Fri 7/19/13	Fri 7/19/13																								
32	4.4.2	EPA Approval of Sampling	0 wks		Mon 7/22/13	Mon 7/22/13																								
33	4.4.3	Sample Collection	2 days		Tue 7/30/13	Wed 7/31/13																								
34	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	Pilot Home Soil Replacement	10.3 wks		Thu 9/26/13	Fri 12/6/13																								
38	4.5.1	Survey	1.8 wks		Thu 9/26/13	Tue 10/8/13																								
39	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	Blocks A-I Remediation Design	42.4 wks		Mon 9/16/13	Tue 7/8/14																								
49	4.6.1	Remedial Design Details	12.4 wks	35	Thu 11/28/13	Fri 2/21/14																								
50	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	Final Design and RAWP	19.6 wks		Fri 2/21/14	Tue 7/8/14																								
55	4.6.6.1	Submit Pre-Final Designs & RAWP: Blocks G & H	0 wks		Fri 2/21/14	Fri 2/21/14																								
56	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	Sampling for Refinement of Remediation Parcels (Feb 2014)	24.8 wks		Wed 2/19/14	Tue 8/12/14																								
70	4.7.1	Beazer & EPA Sampling	0.2 wks		Wed 2/19/14	Wed 2/19/14																								
71	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	Blocks J & K Remediation Design	12.2 wks		Mon 6/2/14	Mon 8/25/14																								
76	4.8.1	Access Agreements for Design	2 wks		Mon 6/2/14	Fri 6/13/14																								
77	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	Community Meetings	16.4 wks		Fri 10/25/13	Tue 2/18/14																								
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	10 wks	88	Mon 11/17/14	Fri 1/23/15																								
91	4.13	Submit Implementation Report	0 wks	90	Fri 1/23/15	Fri 1/23/15																								
92																														
93	5	Cutoff Wall and Stormwater Controls: DESIGN TRACK #2	58 wks		Wed 12/17/14	Tue 1/26/16																								
94	5.1	Pre-Design Work Plan	7 wks	15	Wed 12/17/14	Tue 2/3/15																								
95	5.2	Submit Pre-Design Work Plan	0 wks	94	Tue 2/3/15	Tue 2/3/15																								
96	5.3	Review and Approval	3 wks	95	Wed 2/4/15	Tue 2/24/15																								
97	5.4	EPA Approval of Pre-Design Work Plan	0 wks	96	Tue 2/24/15	Tue 2/24/15																								
98	5.5	Pre-Design Investigation	13 wks	97	Wed 2/25/15	Tue 5/26/15																								
99	5.6	Preliminary Design	5 wks	98	Wed 5/27/15	Tue 6/30/15																								
100	5.7	Submit Preliminary Design	0 wks	99	Tue 6/30/15	Tue 6/30/15																								
101	5.8	Review and Comment	4 wks	100	Wed 7/1/15	Tue 7/28/15																								
102	5.9	Pre-Final Design	5 wks	101	Wed 7/29/15	Tue 9/1/15																								
103	5.10	Review and Comment	5 wks	102	Wed 9/2/15	Tue 10/6/15																								
104	5.11	Final Design	5 wks	103	Wed 10/7/15	Tue 11/10/15																								
105	5.12	Review	3 wks	104	Wed 11/11/15	Tue 12/1/15																								
106	5.13	EPA Approval of Final Design	0 wks	105	Tue 12/1/15	Tue 12/1/15																								
107	5.14	Prepare RAWP	8 wks	106	Wed 12/2/15	Tue 1/26/16																								



Red text used for current tasks

Task Milestone ◆ Summary ▬▬▬

