



November 9, 2016

Rusty Kestle
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: October 2016 Monthly Progress Report

Dear Mr. Kestle:

On behalf of Beazer East, Inc. (Beazer), attached is the September 2016 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
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

**OCTOBER 2016
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. NAPL was removed from temporary injection points (TIPs) installed in the Former Process Area as part of the In-Situ Geochemical Stabilization (ISGS) program. Two NAPL recovery events were conducted during the month.
- Table 1 provides DNAPL collection data for wells outside the Former Process Area for November 2015 through October 2016. Similarly Table 2 provides DNAPL collection data for the TIP outside of the Process Area for the same time period. Process Area recovery data will be included in performance monitoring submittals.
- A total of 3,961,013 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 88.7 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 540,261 gallons
 - Former North Lagoon Drain: 460,260 gallons
 - Former Drip Track Drain: 477,350 gallons
 - Former Process Area Drain: 431,500 gallons
 - Former South Lagoon Drain: 471,740 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 10,355 gallons
 - FW-21B: 145,744 gallons
 - FW-31BE: 956,830 gallons
 - FW-32BE: 466,973 gallons

Approximately 399.6 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 2,330,000 gallons. A portion of the water, from Upper Floridan Aquifer wells, was treated and used for on-Property irrigation.

The Former South Lagoon 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) October 18, 2016.

- 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). Flushed and cleaned polymer lines.
- Irrigation Breakthrough sampling on October 27, 2016.
- Stormwater rinsate sampling on October 11, 2016.
- Carbon breakthrough sampling October 27, 2016.
- Repaired FW-6 compressor and replaced FW-6 motor capacitor.
- Replaced Former Process Area groundwater collection drain pump and repaired flowmeter.
- Replaced EW-10 pump.
- Repaired Kifco sprinkler.
- Investigated public supply water main leak under slab of main office.
- Shipped 4 drums PPE, 24 drums treatment sludge, 4 drums DNAPL and 2 drums of drilling mud on October 27, 2016.
- 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 5-9, 2016.

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 monitoring wells: November 2015 - October 2016

Date	Hawthorn Group Wells								Total
	HG-9S	HG-10S	HG-10D	HG-12S	HG-12D	HG-16S	HG-16D	MW-22B	
12-Nov-15	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
25-Nov-15	STAIN	STAIN	STAIN	0.25	ND		STAIN	STAIN	0.25
10-Dec-15	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
24-Dec-15	ND	STAIN	ND	0.3	ND	STAIN	STAIN	ND	0.3
7-Jan-16	STAIN	STAIN	STAIN	0.25	ND	0.2	STAIN	STAIN	0.45
21-Jan-16	STAIN	STAIN	STAIN	0.2	ND	STAIN	STAIN	STAIN	0.2
3-Feb-16	STAIN	STAIN	STAIN	0.25	ND	STAIN	STAIN	STAIN	0.25
18-Feb-16	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
3-Mar-16	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
16-Mar-16	STAIN	STAIN	STAIN	0.25	ND	STAIN	STAIN	STAIN	0.25
14-Apr-16	STAIN	STAIN	STAIN	0.4	ND	STAIN	STAIN	STAIN	0.4
28-Apr-16	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
12-May-16	STAIN	STAIN	STAIN	0.3	ND	0.3	STAIN	STAIN	0.6
26-May-16	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
9-Jun-16	STAIN	STAIN	STAIN	0.45	ND	0.15	STAIN	STAIN	0.6
23-Jun-16	STAIN	STAIN	STAIN	0.4	ND	STAIN	STAIN	STAIN	0.4
7-Jul-16	STAIN	STAIN	STAIN	0.4	ND	STAIN	STAIN	STAIN	0.4
21-Jul-16	STAIN	STAIN	STAIN	0.4	ND	STAIN	STAIN	STAIN	0.4
4-Aug-16	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
18-Aug-16	STAIN	STAIN	STAIN	0.5	ND	STAIN	STAIN	STAIN	0.5
1-Sep-16	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
15-Sep-16	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
29-Sep-16	STAIN	STAIN	STAIN	0.3	ND	STAIN	STAIN	STAIN	0.3
13-Oct-16	STAIN	STAIN	STAIN	0.25	ND	STAIN	STAIN	STAIN	0.25
27-Oct-16	STAIN	ND	STAIN	0.4	ND	STAIN	STAIN	STAIN	0.4

Note: Does not include data from wells in the Process Area. Those data will be included in performance monitoring submittals.

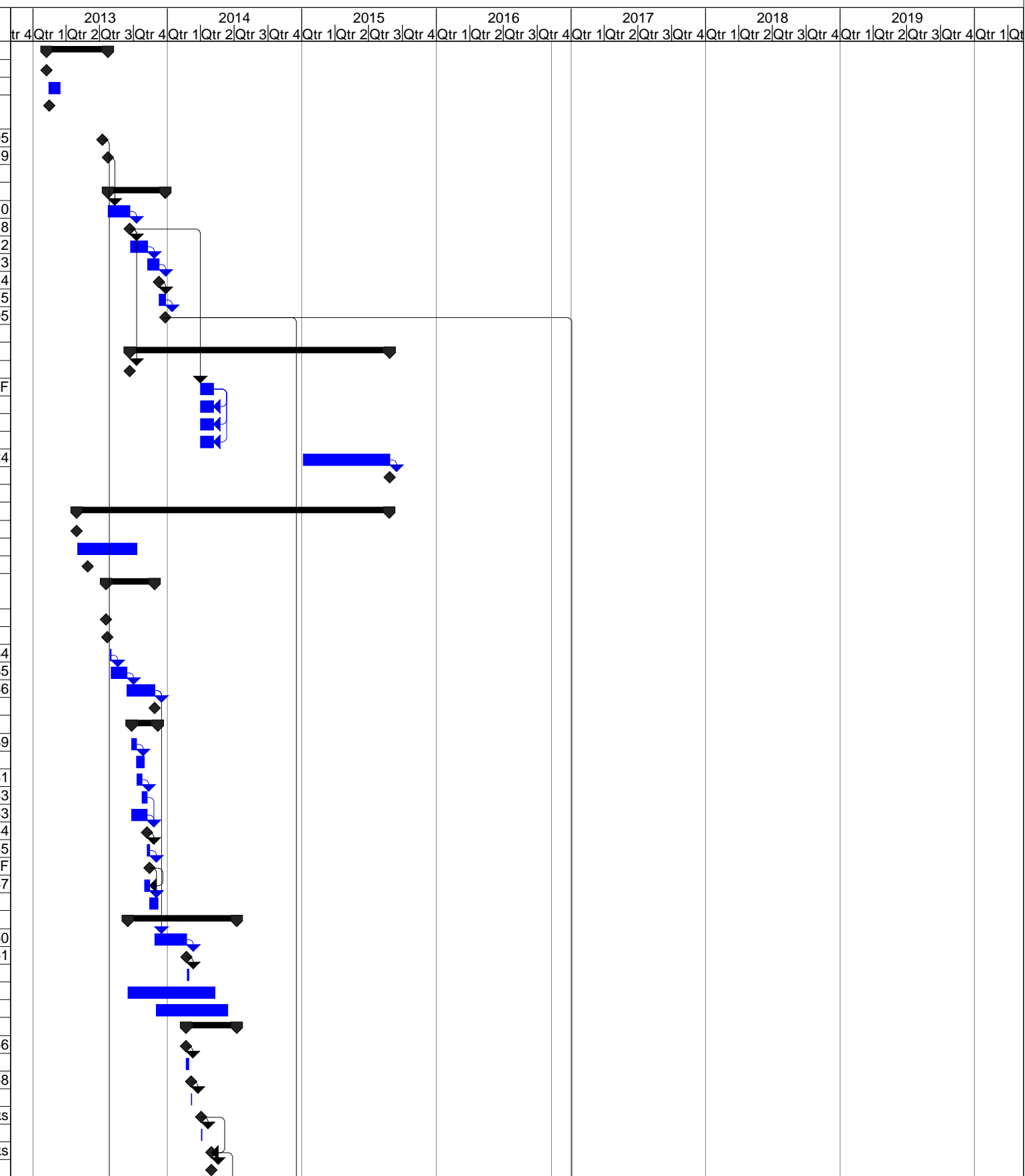
Table 2. DNAPL recovery volume (gal) at Drip Track TIP: November 2015 - October 2016

Date	TIP
	Drip Track
5-Nov-15	0.3
18-Nov-15	0.5
1-Dec-15	0.3
16-Dec-15	0.3
29-Dec-15	0.3
13-Jan-16	0.6
26-Jan-16	0.4
9-Feb-16	1.1
23-Feb-16	0.4
8-Mar-16	0.3
22-Mar-16	0.3
5-Apr-16	0.5
20-Apr-16	0.5
3-May-16	0.3
17-May-16	0.4
1-Jun-16	0.5
14-Jun-16	0.3
28-Jun-16	0.4
12-Jul-16	0.5
26-Jul-16	0.7
9-Aug-16	0.3
23-Aug-16	0.3
6-Sep-16	0.3
20-Sep-16	0.5
4-Oct-16	0.7
18-Oct-16	0.6

Note: Does not include data from TIPs in the Process Area. Those data will be included in performance monitoring submittals.

GAINESVILLE REMEDIAL DESIGN

ID	WBS	Task Name	Duration	Predecessors	Start	Finish	Successors	2013	2014	2015	2016	2017	2018	2019																	
								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		1 Consent Decree for RD/RA	23.8 wks		Thu 2/7/13	Wed 7/24/13																									
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	195																								
6	1.5	EPA Issues Authorization to Proceed with Remedial Design	0 days		Wed 7/24/13	Wed 7/24/13	9																								
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																								
10	2.2	Beazer Submit RDWP	0 wks	9	Fri 9/20/13	Fri 9/20/13	11,19,18																								
11	2.3	EPA Review and Comment RDWP	6.8 wks	10	Mon 9/23/13	Thu 11/7/13	12																								
12	2.4	Beazer Respond to Comments	4.3 wks	11	Fri 11/8/13	Mon 12/9/13	13																								
13	2.5	Beazer Submit Responses and RDWP Version 2	0 wks	12	Mon 12/9/13	Mon 12/9/13	14																								
14	2.6	EPA Review	2.6 wks	13	Mon 12/9/13	Thu 12/26/13	15																								
15	2.7	EPA Approval RDWP	0 wks	14	Thu 12/26/13	Thu 12/26/13	158,95																								
16																															
17		3 Supporting Plans for RD/RA	100.8 wks		Fri 9/20/13	Thu 8/27/15																									
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	20FF,21FF,22FF																								
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	33.8 wks		Mon 1/5/15	Thu 8/27/15	24																								
24	3.7	Beazer Submit Revised QAPP	0 wks	23	Thu 8/27/15	Thu 8/27/15																									
25																															
26		4 Off-Property Soil Replacement (OU-5): DESIGN TRACK #1	121.4 wks		Tue 4/30/13	Thu 8/27/15																									
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																								
34	4.4.4	Analysis and Validation	6.2 wks	33	Thu 8/1/13	Thu 9/12/13	35																								
35	4.4.5	Data Summary Report	10.8 wks	34	Fri 9/13/13	Wed 11/27/13	49,36																								
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																								
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																								
41	4.5.4	Sample Analysis	2 wks	40	Thu 10/24/13	Wed 11/6/13	43																								
42	4.5.5	Pilot Plan	6 wks		Thu 9/26/13	Wed 11/6/13	43																								
43	4.5.6	Submit Pilot Plan	0 wks	42,41	Wed 11/6/13	Wed 11/6/13	44																								
44	4.5.7	Review	1 wk	43	Thu 11/7/13	Wed 11/13/13	45																								
45	4.5.8	EPA Approval of Pilot Plan	0 wks	44	Wed 11/13/13	Wed 11/13/13	47,46FF																								
46	4.5.9	Permitting	2 wks	45FF	Thu 10/31/13	Wed 11/13/13	47																								
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																								
50	4.6.2	Submit RD Details	0 wks	49	Fri 2/21/14	Fri 2/21/14	51																								
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																									
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																								
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																								
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	60,61FF+4 wks																								
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	62,63FF+3.1 wks																								
62	4.6.6.8	Final Design and RAWP Approval: Block C	0 wks	61	Wed 4/30/14	Wed 4/30/14																									



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