



September 10, 2013

W. Russell Kestle, Jr. PG
Remedial Project Manager
Superfund Division, Region 4
U. S. Environmental Protection Agency
61 Forsyth Street SW
Atlanta GA 30303-8909

VIA EMAIL

Subject: **August 2013 Monthly Progress Report**

Dear Mr. Kestle:

On behalf of Beazer East, Inc. (Beazer), attached is the August 2013 Monthly Progress Report for 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 'Greg W. Council'.

Gregory W. Council, P.E.
Principal Engineer

cc: Scott Miller, EPA
Kelsey Helton, FDEP
John Mousa, ACEPD
Rick Hutton, GRU
Carrie McCoy, Black & Veatch
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
Kim O'Day, Tetra Tech

August 2013
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 (RD/RA) activities are presently being planned and scheduled.

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: 1.2 gallons of NAPL were removed from Upper Hawthorn wells during the past month (1 recovery event). A total of 546.41 gallons have been bailed or pumped since the start of the NAPL recovery program on June 19, 2004. The attached table provides details of the NAPL recovery volumes by well and date.
- In addition, NAPL was removed from 11 temporary injection points installed in the Former Process Area as part of the In-Situ Geochemical Stabilization (ISGS) program. This is a pilot demonstration for full scale design. Three NAPL recovery events were conducted during the month, resulting in 181 gallons removed.
- Also in addition, NAPL was removed from six newly-installed recovery wells installed in the Former Process Area as part of the ISGS program (one in the surficial aquifer and five in the Upper Hawthorn). Two NAPL recovery events were conducted during the month, resulting in 61.3 gallons removed.
- A total of 4,023,573 gallons of groundwater were recovered by the Surficial Aquifer drains and extraction well system during the past month (system run time of 675 hours). The average recovery rate for the month was approximately 99.3 gallons per minute (gpm). The recovery for each component is listed below.
 - Surficial Aquifer
 - Perimeter Extraction Wells: 688,963 gallons
 - Former North Lagoon Drain: 405,640 gallons
 - Former Drip Track Drain: 487,730 gallons
 - Former Process Area Drain: 427,930 gallons
 - Former South Lagoon Drain: 421,190 gallons
 - Upper Floridan Extraction Wells
 - FW-6: 21,620 gallons
 - FW-21B: 119,683 gallons
 - FW-31BE: 943,220 gallons
 - FW-32BE: 507,597 gallons

Approximately 328 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 2,431,453 gallons. The remaining portion of the water, from Upper Floridan Aquifer wells, was treated and used for irrigation.

The Former South Lagoon and Former Process Area groundwater drain pumps were turned off for approximately 10.5 hours to pump and clean clarifiers and to treat backwash water. All drain pumps are set at the lowest possible positions in sumps.

3. Plans, Reports, Deliverables and Procedures Completed:

- Institutional Control Implementation and Assessment Plan (ICIAP) submitted August 23, 2013.
- Periodic maintenance checks and inspections.
- Treatment-plant component maintenance and repair as needed.
- Irrigation-system carbon breakthrough sample collection for VOCs and SVOCs.
- Third quarter groundwater sampling event was completed August 5-17, 2013.
- Treatment system influent/effluent sampling was performed August 20, 2013.
- Rebuilt EW-8 and EW-10 pumps and flow meters.
- Repaired irrigation pump wiring.
- 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.
- Surveying of off-Property (Stephen Foster neighborhood) properties is scheduled to begin on September 16, 2013.
- A Remedial Design Work Plan will be submitted by September 22, 2013.
- Fourth quarter groundwater sampling event planned for December 1-4, 2013.
- Routine inspection, operation, maintenance, and monitoring.
- Coordination with EPA and others for access agreements at nearby properties in need of surveying or soil sampling.

5. Schedule Status:

- Remedial design and remedial action planning activities are underway. A schedule is being developed as part of the Remedial Design Work Plan.
- No delays were encountered during the reporting period.

6. Plan/Schedule Modifications:

- None this reporting period.

7. Community Involvement:

- Mitchell Brouman presented at the Gainesville City Commission meeting September 5, 2013.
- Future community involvement activities will be coordinated with EPA.

Hawthorn Group Passive NAPL Recovery (Page 5 of 5)

Well	HG-9S		HG-10S		HG-10D		HG-11S		HG-12S		HG-12D		HG-15S		HG-16S		HG-16D		FW-6		Total Vol. removed (gal)
	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	Thickness (ft)	Vol. Removed (gal)	
11/8/2012	stain	0	1.5	0.3	stain	0	1.82	0.35	2.33	0.4	ND	0	4.44	0.75	1.23	0.15	stain	0	NM	0	1.95
11/21/2012	stain	0	1.58	0.4	stain	0	1.77	0.3	2.25	0.3	ND	0	3.88	0.6	1.03	0.1	stain	0	NM	0	1.7
12/5/2012	stain	0	1.47	0.3	stain	0	1.84	0.35	2.22	0.3	ND	0	3.96	0.65	1.12	0.1	stain	0	NM	0	1.7
12/18/2012	stain	0	1.53	0.4	stain	0	1.76	0.4	2.3	0.25	ND	0	4.04	0.6	1.09	0.2	stain	0	NM	0	1.85
1/2/2013	stain	0	1.61	0.3	stain	0	1.87	0.3	2.36	0.3	ND	0	4.23	0.5	1.12	0.1	stain	0	NM	0	1.5
1/16/2013	stain	0	1.6	0.5	stain	0	1.85	0.4	2.36	0.4	ND	0	4.08	0.5	1.07	0.25	stain	0	NM	0	2.05
1/30/2013	stain	0	1.53	0.35	stain	0	1.78	0.4	2.23	0.4	ND	0	4.31	0.5	0.96	0.2	stain	0	NM	0	1.85
2/14/2013	stain	0	1.53	0.35	stain	0	1.8	0.35	2.49	0.4	ND	0	4.17	0.5	0.94	0.1	stain	0	NM	0	1.7
2/27/2013	stain	0	1.3	0.2	stain	0	1.74	0.25	1.85	0.3	ND	0	3.95	0.45	0.83	0.1	stain	0	NM	0	1.3
3/13/2013	stain	0	1.48	0.4	stain	0	1.81	0.4	1.99	0.3	ND	0	3.84	0.6	0.73	0.1	stain	0	NM	0	1.8
3/27/2013	stain	0	1.48	0.45	stain	0	1.82	0.35	1.6	0.4	ND	0	3.95	0.45	0.83	0.15	stain	0	NM	0	1.8
4/10/2013	stain	0	stain	0	stain	0	1.47	0.35	1.63	0.3	ND	0	3.54	0.45	0.77	0.15	stain	0	NM	0	1.25
4/24/2013	stain	0	stain	0	stain	0	1.77	0.35	1.86	0.4	ND	0	3.92	0.5	stain	0	stain	0	NM	0	1.25
5/8/2013	stain	0	stain	0	stain	0	1.7	0.35	1.83	0.4	ND	0	3.78	0.45	stain	0	stain	0	NM	0	1.2
5/22/2013	stain	0	stain	0	stain	0	1.64	0.35	1.83	0.4	ND	0	3.51	0.4	stain	0	stain	0	NM	0	1.15
6/5/2013	stain	0	stain	0	stain	0	1.81	0.4	1.85	0.3	ND	0	3.57	0.4	1.02	0.2	stain	0	NM	0	1.3
6/18/2013	stain	0	stain	0	stain	0	1.47	0.3	1.58	0.3	ND	0	3.43	0.4	stain	0	stain	0	NM	0	1
7/4/2013	stain	0	stain	0	stain	0	1.77	0.4	1.76	0.3	ND	0	3.57	0.5	stain	0	stain	0	NM	0	1.2
7/17/2013	stain	0	stain	0	stain	0	1.67	0.3	1.78	0.3	ND	0	3.19	0.4	0.94	0.15	stain	0	NM	0	1.15
7/31/2013	stain	0	stain	0	stain	0	1.04	0.25	1.65	0.25	ND	0	2.88	0.5	stain	0	stain	0	NM	0	1
8/15/2013	stain	0	stain	0	stain	0	1.72	0.4	1.48	0.3	ND	0	3.58	0.5	stain	0	stain	0	NM	0	1.2
Total Removed		0.1		74.15		0.0		122.10		92.05		0.0		150.91		62.55		0.0		0.0	546.41

Notes:
 6/19/04 measured with bailer
 7/07/04 measured with weighted cotton string
 Other dates used Bailer & Interface Probe
 ND indicates NAPL not detected
 NM indicates measurement not taken
 Stain indicates that NAPL stained measurement probe, but thickness was unmeasurable
 Blank indicated no measured DNAPL removal
 10/25/05 began two-week schedule
 5/17/06 used low-flow pump (as opposed to the bailer)
 7/10/07 RH performed bailing
 11/13/07 New Heron Oil/Water Interface Probe (H01L/SM01L) now in use
 3/4/08 through 8/25/08 Key Environmental pumping well running 8 ft away from HG-10S and HG-10D
 12/23/08 Michael Toundas performed DNAPL recovery
 2/3/2009 difficulties with obtaining DNAPL/water interface with new tape
 3/18/09 - only performed DNAPL recovery at HG-15S
 starting on 8/20/09 - used peristaltic pump at HG-11S & HG-15S; stain observed at HG-16D and M-22B
 10/21/2009 - FW-6 no longer measured due to Upper Floridan IRM