



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

September 29, 2015

REPLY TO THE ATTENTION OF:

LU-9J

**Via E-mail and Certified Mail 7009 1680 0000 7671 2194**  
**Return Receipt Requested**

Mike Slenska  
Three Rivers Management for  
Beazer East, Inc.  
Manor Oak One, Suite 200  
1910 Cochran Rd.  
Pittsburgh, PA 15220

Re: Proposed New Well, Piezometer,  
SW Gauge Locations; Soil Sampling of  
Soil Borings  
Former Koppers Company Wood-  
Treating Site, Carbondale, IL  
U.S. EPA ID NO. ILD 000 819 946

Dear Mr. Slenska:

Per our discussion of September 10, 2015, Dave Bessinpas of ARCADIS U.S., Inc., provided EPA with emailed documents on September 17, 2015 (enclosed) pertaining to near-term modifications of the Koppers Site groundwater monitoring well network. EPA approves the modifications of 1) the proposed installation of the new wells, piezometers, and surface water gauges, and 2) the abandonment of the specifically identified wells in the hydrologic C-Unit. The locations of the wells are identified on the figure attached to the email. EPA noted a small error in the email. It appears that the second bullet which lists the A-Unit wells should include OW-212A and not OW-210B (the figure correctly shows OW-212A as a new monitoring well).

During installation of the wells and piezometers, soils in the borings will be sampled and analyzed for dioxin/furan concentrations. The sampling table attached to the email identified the proposed depth intervals of soil samples; the borings to be sampled are from three A-unit installations. EPA approves these locations and sampling intervals. However, in addition, one sample from the mid-point of the B-unit must also be sampled during the drilling of OW-210B and OW-211B.

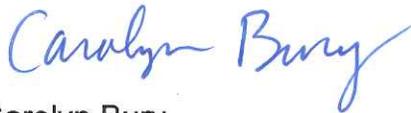
Beazer must evaluate the boring cores for all the new installations and observe the installations of the surface water gauges and report any evidence of NAPL in the field notes, which must be provided to EPA with the network modification report.

The groundwater monitoring well network modification work is proposed for the fall

of 2015. As discussed, please provide EPA with advance notice of the drilling schedule. Please provide EPA with the groundwater monitoring well network modification report within four weeks of receiving the validated soil sampling data.

Please contact me at 312-886-3020 if you have any questions about this letter.

Sincerely,



Carolyn Bury  
Project Manager

Enclosure

cc: Jim Moore, IEPA  
e-cc: Dave Bessingpas, ARCADIS  
Jeff Holden, ARCADIS

## Bury, Carolyn

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**From:** Bessingpas, David <David.Bessingpas@arcadis.com>  
**Sent:** Thursday, September 17, 2015 9:27 AM  
**To:** Bury, Carolyn  
**Cc:** 'Slenska, Mike (Pittsburgh) USA'; Holden, Jeff; Anderson, Paul; White, Keith  
**Subject:** Carbondale Site - Well Network Modifications and Dioxin/Furan Soil Sampling SOW  
**Attachments:** CARBONDALE SITE (proposed new well locations).pdf; c'dale - dioxin soil sampling SOW.pdf

Hi Carolyn,

As discussed during our conference call last Thursday (9/10) regarding the Former Koppers Wood-Treating Site in Carbondale, IL, on behalf of Beazer East, Inc., the following are attached for USEPA's review and approval:

- A site plan showing the locations of existing and proposed monitoring wells, piezometers and surface water gauges. This figure is consistent with the figure originally submitted with the October 2008 Groundwater Monitoring Plan, as revised to address modifications agreed to during conference calls on November 24, 2014, June 30, 2015, and July 14, 2015. In particular, the figure shows the locations of the following:
  - Seven C-Unit wells to be abandoned: OW-17C, OW-23C, OW-27C, OW-35C, OW-36C, R-13C and R-14C.
  - Five new A-Unit wells to be installed: OW-208A, OW-209A, OW-210A, OW-211A, and OW-210B.
  - Six new B-Unit wells to be installed: OW-207B, OW-208B, OW-209B, OW-210B, OW-211B, and OW-212B.
  - Three new A-Unit piezometers to be installed: P-9A, P-10A, and P-11A.
  - Three new surface water gauges to be installed: GC-3, GC-4, and GC-5.

These changes represent our understanding of the agreed-upon monitoring network modifications. Pending USEPA's final approval and driller availability, we would like to implement these modifications this fall.

- A table summarizing the proposed scope of work for the collection of soil samples for dioxin/furan analysis from selected soil boring locations along the southern property boundary. Pending USEPA's approval, these samples will be collected in conjunction with the well installation field work.

Please let us know if you have any questions or comments, or reply with your approval.

Thanks, Dave

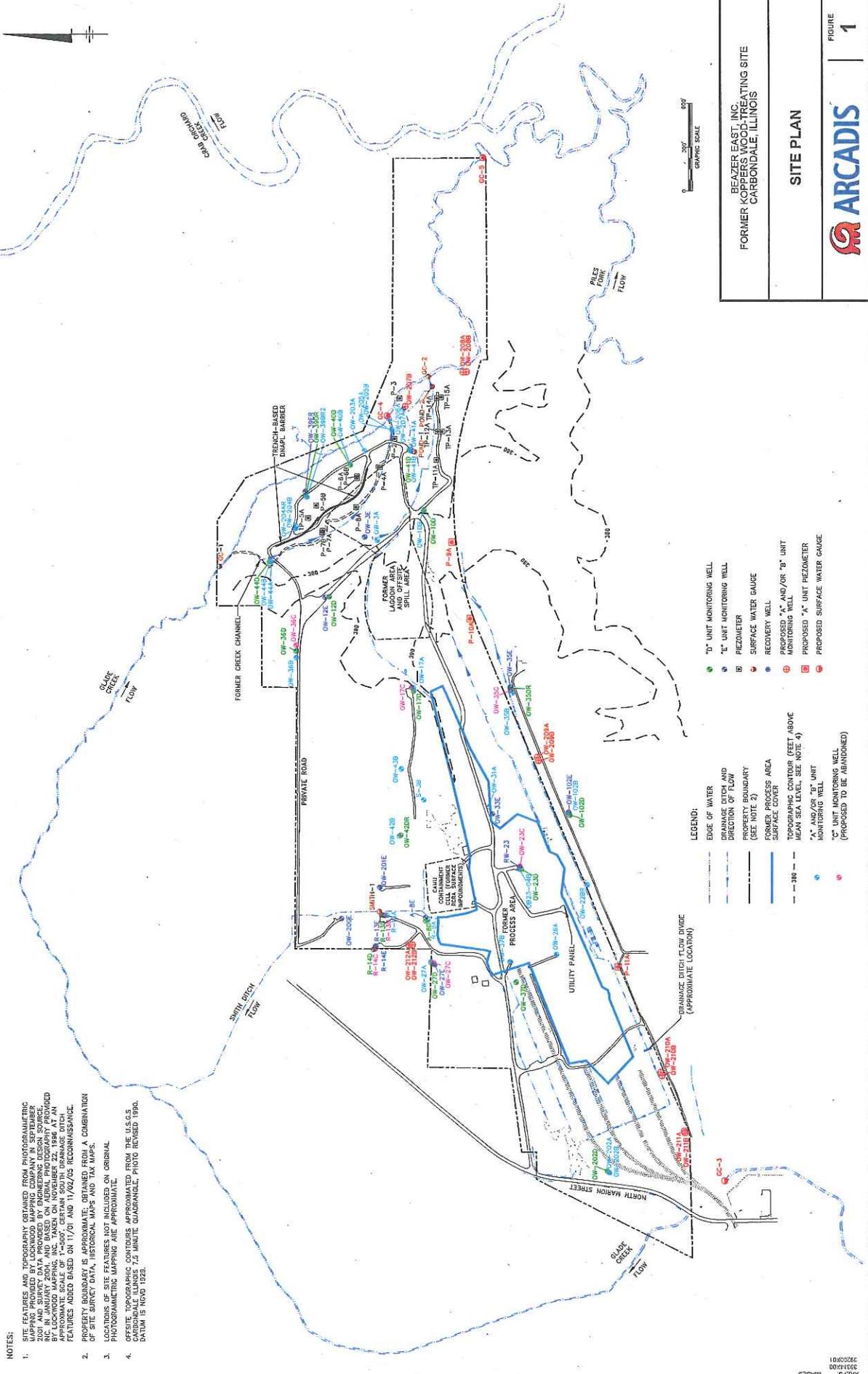
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- NOTES:**
1. SITE FEATURES AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRIC MAPPING PROVIDED BY LOCKWOOD MAPPING COMPANY IN SEPTEMBER AND NOVEMBER 2001. DATE AND TIME OF PHOTOGRAPHS PROVIDED BY LOCKWOOD MAPPING, INC. TAKEN ON NOVEMBER 22, 1996 AT AN ALTITUDE OF 1100 FEET. TOPOGRAPHIC DATA AND MONITORING WELL FEATURES ADDED BASED ON 11/01 AND 11/02/03 RECONNAISSANCE.
  2. PROPERTY BOUNDARY IS APPROXIMATE, OBTAINED FROM A COMBINATION OF SITE SURVEY DATA, HISTORICAL MAPS AND TAX MAPS.
  3. LOCATIONS OF SITE FEATURES NOT INCLUDED ON ORIGINAL PHOTOGRAMMETRIC MAPPING ARE APPROXIMATE.
  4. OFFSITE TOPOGRAPHIC CONTOURS APPROXIMATED FROM THE U.S.G.S. CARBONDALE 15-MINUTE QUADRANGLE, PHOTO REVISED 1990. DATUM IS ROAD 1922.

- LEGEND:**
- EDGE OF WATER
  - DRAINAGE DITCH AND DIRECTION OF FLOW
  - PROPERTY BOUNDARY (SEE NOTE 2)
  - FORMER ACCESS AREA
  - SURFACE COVER
  - TOPOGRAPHIC CONTOUR (FEET ABOVE MEAN SEA LEVEL, SEE NOTE 4)
  - "A" AND/OR "B" UNIT MONITORING WELL
  - "C" UNIT MONITORING WELL (PROPOSED TO BE ABANDONED)
  - "D" UNIT MONITORING WELL
  - "E" UNIT MONITORING WELL
  - PIEZOMETER
  - SURFACE WATER GAUGE
  - RECOVERY WELL
  - PROPOSED "A" AND/OR "B" UNIT MONITORING WELL
  - PROPOSED "A" UNIT PIEZOMETER
  - PROPOSED SURFACE WATER GAUGE

Former Koppers Wood-Treating Site  
Carbondale, Illinois

Proposed Scope of Work for Dioxin/Furan Soil Sampling

Soil Boring	Depth Intervals (feet below ground surface)	Laboratory Analysis
P-11A	0-2 2-4 4-6 6-8 8-10	Dioxins/Furans (Method 8290)
OW-210A	0-2 2-4 4-6 6-8 8-10	Dioxins/Furans (Method 8290)
OW-211A	0-2 2-4 4-6 6-8 8-10	Dioxins/Furans (Method 8290)

