

From: [Scott Miller](#)
To: [Kevin Koporec](#); [Pat Cline](#); [John Mousa](#); [Hutton, Richard H](#); [Helton, Kelsey](#); [Pearson, Stewart E.](#)
Subject: Fw: Summary of June 2012 Contingent Sampling Results, Cabot Carbon/Koppers Superfund Site
Date: Friday, August 17, 2012 12:12:27 PM

Greetings, Folks,
 Here is information on the latest offsite soil sampling nearby the former Koppers facility.
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 ----- Forwarded by Scott Miller/R4/USEPA/US on 08/17/2012 12:00 PM -----

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 Date: 08/17/2012 11:32 AM
 Subject: Summary of June 2012 Contingent Sampling Results, Cabot Carbon/Koppers Superfund Site

Dear Scott,

The table below summarizes the results for the nine "contingent" off-Site locations at which samples were collected in June 2012 from the vicinity of the Cabot Carbon/Koppers Site (Site). Data validation was completed for these data on August 14.

The first column presents the sample identification number of the original January 2012 sample that exceeded an FDEP default residential delineation goal, the second and third columns list the constituent that exceeded the default delineation goal and the concentration units respectively, the fourth column presents the January 2012 constituent concentration, the fifth column presents the sample identification number of the contingent sample and the sixth column presents the June 2012 constituent concentration in the contingent sample. The seventh column indicates whether a duplicate sample was taken at a particular location, the eighth column presents the results of the duplicate, and the last column the average of the duplicates.

Summary of Contingent Sampling Results								
June 2012								
Cabot Carbon / Koppers Superfund Site								
Original Sample ID	Constituent	Units	Concentration	Contingent Sample ID	Concentration	Duplicate	Concentration	Average
SS350AA	Arsenic	ppm	3.9	SS351AA	4.21	NA	NA	NA
SS274AA	BaP TE	ppb	356	SS275AA	82	NA	NA	NA
SS277AA	BaP TE	ppb	392	SS278AA	176	NA	NA	NA
SS350AA	BaP TE	ppb	383	SS351AA	989	NA	NA	NA
SS352AA	BaP TE	ppb	237	SS353AA	4705	DUP 31	5034	4870
SS279AA	TCDD TEQ	ppt	8.51	SS280AA	5.29	NA	NA	NA
SS281AA	TCDD TEQ	ppt	29.6	SS282AA	7.86	DUP 30	7.61	7.73
SS360AA	TCDD TEQ	ppt	12.1	SS361AA	7.76	NA	NA	NA
SS362AA	TCDD TEQ	ppt	19.2	SS363AA	9.30	NA	NA	NA
Compounds not detected were included in the BaP TE and TCDD TEQ calculations at 1/2 the detection limit.								

The BaP-TE concentration at contingent sampling location SS275 was less than the default residential delineation criterion of 100 ppb. The TCDD-TEQ concentration at location SS280 was less than the default residential delineation criterion on 7 ppt. Delineation has been achieved at these locations.

The TCDD-TEQ concentration at locations SS282 and SS361 were within 11% of the default residential delineation criterion of 7 ppt and the concentration at location SS362 was about 30% higher than the default residential criterion. All three of these locations show a marked reduction in TCDD-TEQ concentration from the original to the contingent location suggesting the sampling locations are in the immediate vicinity of

concentrations that are equal to or below the default delineation criterion. Further, location SS282 is adjacent to NW 6 Street. The TCDD-TEQ concentration at that location (7.86 ppt) is within the range of background TCDD-TEQ concentrations detected along busy residential streets of Gainesville and, thus, may be representative of background, in which case delineation has been achieved.

The arsenic and BaP-TE concentrations at location SS351 and the BaP-TE concentration at SS353 exceed their respective residential default delineation criterion. However, the concentration trend along the streets from which these samples were collected is inconsistent with the Site being the source. In particular, concentrations of both arsenic and BaP-TE initially decrease with distance from the Site but then begin to increase. The increase in BaP-TE concentrations from the original sample to the contingent sample is especially large: the concentration at contingent sample SS351 is nearly three times higher than the original sample (SS350) and the concentration at contingent sample SS353 is about 20 times higher than the original sample (SS352). These large increases in concentration as you move farther from the Site are inconsistent with the Site being the source.

Moreover, the fluoranthene/pyrene ratio at all of the contingent sampling locations where BaP-TE was detected above the default residential delineation criterion was greater than 1.0 (1.4 at SS278, 1.3 at SS351 and 1.4 at SS353) while virtually all on-Site samples had a ratio of less than 1.0 (with a mean of 0.9, Table 2-3, Off-Site Data Summary and Fingerprinting Evaluation, April 6, 2011). These findings provide strong indication that the Site is not responsible for the arsenic and BaP-TE detected in the contingent sampling locations and that additional delineation of these two constituents to identify the limits of Site influence is not necessary.

Please call if you need additional information or have questions about the June 2012 contingent sample results.

Best regards,

Paul

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