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October 31, 2017

Mr. James R. Carroll
Program Administrator
Land Restoration Program
Land Management Administration
Maryland Department of the Environment
1800 Washington Boulevard, Suite 625
Baltimore, Maryland 21230

Subject: Building C Air Sampling due to Recent Flooding
Sampling and Analysis Summary
Middle River Complex, Middle River, Maryland

Dear Mr. Carroll:

Tetra Tech, Inc. (Tetra Tech) is submitting this letter to summarize the activz(e)6(c)6(t wd)-eumc Building C basement. On Friday July 14, 2017 at approximately 5:00 p.m., Mr. Justin Tetlow (Middle River Aircraft Systems [MRAS]) contacted Mr. Tony Apanavage (Tetra Tech) by text message stating that with the volume of rain that fell in the Middle River, Maryland area earlie that afternoon, storm water had come up through the floor in Building C basement at column M9

TestAmerica Laboratories, Inc. (TestAmerica) an

validation. There were no exceedances of the risk-based screening criteria for any chemical detected. Trichloroethene (TCE) or other chlorinated compounds such as tetrachloroethene, *cis*- or *trans*-1,2-dichloroethenes, or vinyl chloride were not detected in any of the six samples.

Historically, wood-block shop flooring has been treated with creosote or coal tar products. Based upon the observed creosote-type odor, naphthalene was expected to be present; however, naphthalene was detected in only two samples (IA-WA-C-1 and IA-SL-C-1) at low concentrations (2.7 micrograms per meters cubed (µg/m^3) and 2.4 µg/m^3, respectively).

Benzene, toluene, xylenes, and ethylbenzene (BTEX) compounds and trimethylbenzene compounds are often associated with oil, creosote, and coal tar. Oil could have also been used to preserve the wood-block flooring at the site, and all BTEX components were detected during sampling. Total xylenes were detected in all six samples at concentrations rand0(l),2-20((4u)6(r)5(e)6(

cc: (via email without enclosure)

FIGURES

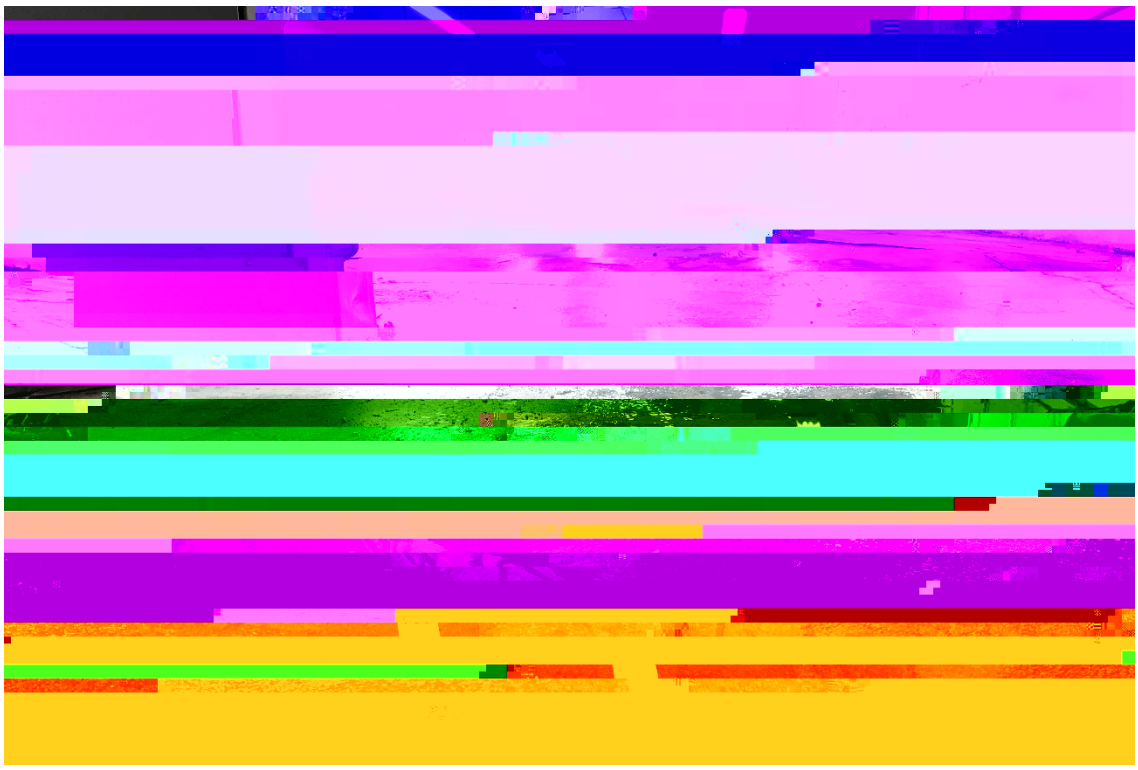
TABLES

Table 1
Analytical Summary
Building C Basement Flooding Air Sampling
Middle River Complex
Middle River, Maryland

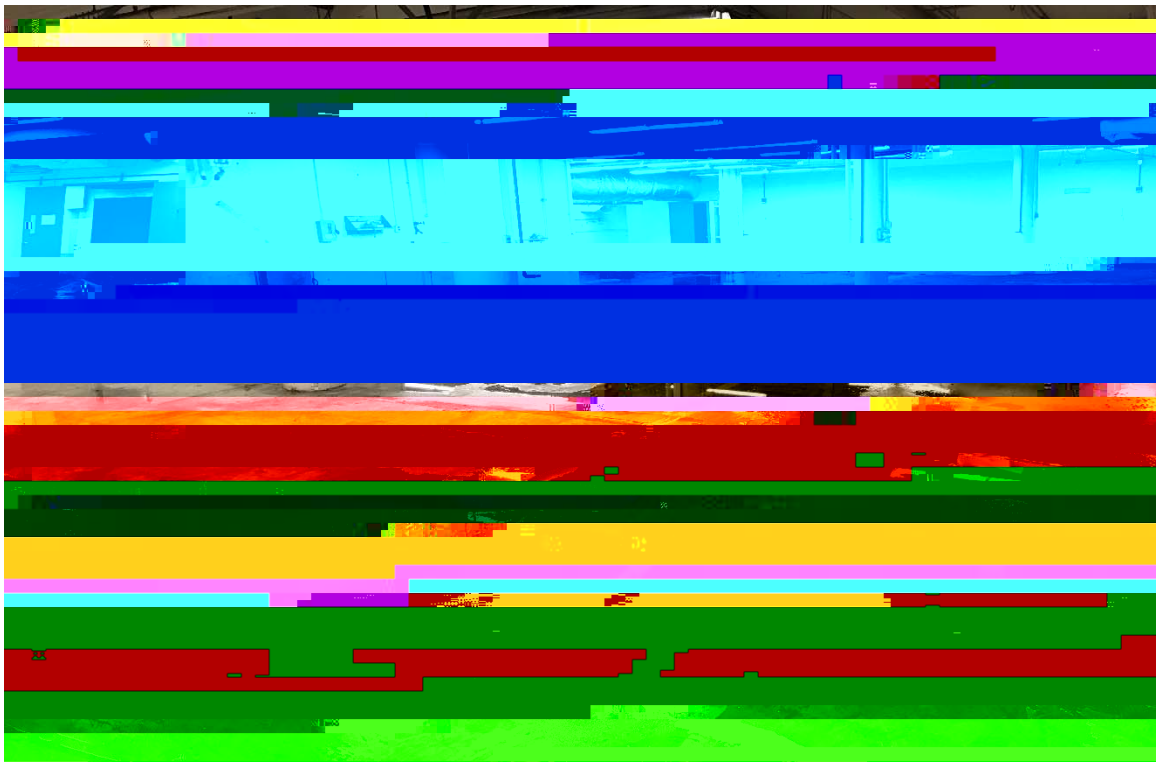
SAMPLE_ID LAB ID SAMPLE DATE	Industrial Air Screening Level ($\mu g/m^3$)	OSHA PEL ($\mu g/m^3$)						
OV-M3 ($\mu G/M^3$)								
1,1,1-TRICHLOROETHANE	22,000	1,900,000	0.33 U	1.5 U	0.33 U	0.33 U	0.33 U	0.41 U
1,1,2-TRICHLOROETHANE	0.88	45,000	0.57 U	2.6 U	0.57 U	0.57 U	0.57 U	0.72 U
1,1-DICHLOROETHANE	77	400,000	0.2 U	0.92 U	0.2 U	0.2 U	0.2 U	0.25 U
1,1-DICHLOROETHENE	880	--	0.28 U	1.3 U	0.28 U	0.28 U	0.28 U	0.35 U
1,2,3-TRIMETHYLBENZENE	260	123,000[N]	1.3 J	3.8 U	0.84 U	0.84 U	1.1 J	1 U

PHOTOGRAPHIC LOG

Vacant room between columns M9/10 and K9/10 showing cracked floor



Ground level view of vacant room showing uplift of floor



Flooding in northern portion of Building C basement

Flooding down hallway in northern portion of Building C basement

Flooding in northern portion of Building C basement