Furuseth, Arlene (MPCA)

From: Grape, Tim [tim.grape@AECOM.com]
Sent: Friday, December 11, 2009 5:20 PM
To: Furuseth, Arlene (MPCA)
Cc: Stock, Paul (MPCA)
Subject: Alex Exhaust Vapor Results
Attachments: Table 20 - Vapor.xls

Arlene,

The results of the permanent soil vapor point sampling (VP-1P) for Alex Exhaust are summarized on the attached Table 20 along with the historic soil vapor probe results from the initial vapor intrusion assessment (VIA) in 2007.

The recent sampling results at VP-1P indicate the presence of numerous compounds at concentrations well above the Acute intrusion screening values (ISVs) and/or 100 times the ISVs. The compounds detected in 2009 were similar to those detected in the original soil vapor sampling conducted at this location in 2007. They include the BTEX compounds as well as light hydrocarbons Cyclohexane and n-Hexane. 1,2,4 and 1,3,5 Trimethylbenzene were detected above 100 x their respective ISVs in the 2007 event but were non-detect due to a higher detection limit in the 2009 sample. Acetone also showed up in the 2009 event above the calibration range but was non-detect in the 2007 event.

Vapor monitoring conducted inside the building in 2009 did not indicate the presence of elevated (> 1) PID or LEL readings inside the structure.

The building is still being utilized on a part time basis for auto repair work and there are a significant amount of potential vapor sources present within the building associated with the site usage.

There is no question that there is the potential for vapor migration to the structure above the ISVs based on the concentrations observed in VP-1P. The big questions are, if we sample inside the building and concentrations are detected above the ISVs; 1) How do we distinguish the source(s) and 2) Will corrective action for the release remedy the ISV vapor exceedances?

If additional vapor assessment is warranted we would first conduct a sub-slab sample prior to any indoor air sampling. However; before we make a decision regarding any additional vapor intrusion work, I would like to discuss this with you and Paul based on the recent analytical results and vapor monitoring.

Please call me whenever you have a chance to discuss.

Thanks and Have a Great Weekend.

Tim

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Table 20
Results of Soil Gas Sampling for Vapor Intrusion Screening
Results and ISV Standards are Reported in µg/m^3

Sample ID	VP-1		VP-1P		VP-2 (Worst Case)		VP-3		VP-4		Field Blank		*Acute Intrusion Screening Value*	*100x Intrusion Screening Value*
Date	2/8/2007		11/10/2009		2/8/2007		2/8/2007		2/8/2007		2/8/2007			
Depth (feet)	3		3		8		3		3		Ambient			
PID (PID units)	>2,000		129		>2,000		<1		136					
COMPOUNDS	Result	Report Limit	Result	Report Limit	Result	Report Limit	Result	Report Limit	Result	Report Limit	Result	Report Limit		
Acetone	ND	312	**6,220,000**^{E}	12,300	ND	300	**48.6**	3.6	**48.4**	3.1	**5.7**	0.6	*60,000*	*40,000*
Benzene	**15,700**	422	**213,000**	16,600	**33,500**	406	**29.1**	0.98	**21.9**	4.2	ND	0.81	*1,000*	*450*
2-Butanone (MEK)	ND	390	ND	15,400	ND	375	**11**	0.91	ND	3.9	**1.7**	0.75	*10,000*	*500,000*
Carbon Disulfide	ND	410	ND	16,100	ND	394	**3.7**	0.95	**6.8**	4.1	ND	0.79	*6,000*	*70,000*
Chloromethane	ND	273	ND	10800	ND	262	ND	0.63	ND	2.7	**0.83**	0.52	*1,000*	*9,000*
Cyclohexane	**1,080,000**	4420	**10,100,000**^{E}	17,400	**918,000**	4250	**98.5**	1.0	**27**	4.4	ND	0.85	*NA*	*600,000*
Dichlorodifluoromethane	ND	650	ND	25,600	ND	625	**29.7**	1.5	ND	6.5	**2.2**	1.2	*NA*	*20,000*
Ethylbenzene	**18,400**	572	**33,800**	22,500	**18,000**	550	**15**	1.3	**7.2**	5.7	ND	1.1	*10,000*	*100,000*
4-Ethyltoluene	**4,050**	1620	ND	64,000	**5,100**	1560	**11**	3.8	ND	16.2	ND	3.1	*NA*	*NA*
n-Heptane	**288,000**	5400	**1,730,000**	21,200	ND	519	**36.2**	1.3	**21.1**	5.4	ND	1.0	*NA*	*NA*
n-Hexane	**540,000**	4680	**4,950,000**^{E}	18,400	**829,000**	4500	**42.1**	1.1	**32.5**	4.7	ND	0.9	*NA*	*200,000*
Methylene Chloride	ND	462	ND	18,200	ND	444	**2.1**	1.1	ND	4.6	ND	0.89	*10,000*	*2,000*
Naphthalene	ND	1760	ND	69,100	ND	1690	**4.3**	4.1	ND	17.6	ND	3.4	*NA*	*900*
Propylene	ND	228	ND	8,960	ND	219	**167**	2.6	**267**	2.3	ND	0.44	*NA*	*300,000*
Styrene	ND	556	ND	22,300	ND	544	**2.9**	1.3	ND	5.7	ND	1.1	*21,000*	*100,000*
Tetrachloroethene	ND	910	ND	35,800	ND	875	**3.2**	2.1	ND	9.1	ND	1.8	*20,000*	*2,000*
Toluene	**4,100**	500	**94,000**	19,700	**3,740**	481	**39.1**	1.2	**25**	5.0	ND	0.96	*37,000*	*500,000*
1,2,4-Trimethylbenzene	**5,930**	1620	ND	64,000	**6,970**	1560	**31.3**	3.8	ND	16.2	ND	3.1	*NA*	*700*
1,3,5-Trimethylbenzene	**2,370**	1620	ND	64,000	**4,190**	1560	**8.9**	3.8	ND	16.2	ND	3.1	*NA*	*600*
Xylenes (Total-m,o,p)	**36,380**	1712	**62,000**	67,600	**31,360**	1650	**48.6**	4.0	**14.1**	17.1	ND	3.3	*43,000*	*10,000*

Notes:

NA = No Toxicity Data Available
ND = Not Detected
NE = Not Established

=Concentration exceeds 100 times the ISV
= Concentration exceeds the Acute ISV

Bold = Concentration detected above laboratory reporting limit
ISV standards based on MPCA ISVs for Vapor Intrusion Table, October, 2008 Version
E = Analyte concentration exceeded the calibration range. The reported result is estimated.


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PETROLEUM TANK RELEASE SITE FILE CLOSURE


02-01-2011

Minnesota Pollution Control Agency
Detroit Lakes Office

February 1, 2011

Mr. Ben Zacher
901 Highway 29 North
Alexandria, MN 56308

RE: Petroleum Tank Release Site File Closure
Site: Alex Exhaust, 905 Third Avenue East, Alexandria, MN 56308
Site ID#: LEAK 15656

Dear Mr. Zacher:

The Minnesota Pollution Control Agency (MPCA) staff has determined that the investigation has adequately addressed the petroleum tank release at the site listed above. Based on the information provided by MPCA contractor, AECOM, MPCA staff has closed the petroleum tank release site file.

Closure of the file means that the MPCA staff believes that additional investigation and/or cleanup work is not necessary at this time or in the foreseeable future. File closure does not necessarily mean that all petroleum contamination has been removed from this site. However, the MPCA staff has concluded that any remaining contamination, if present, does not appear to pose a threat to public health or the environment. The MPCA may reopen this file if new information or changing regulatory requirements make additional work necessary.

This letter does not release any party from liability for the petroleum contamination under Minn. Stat. ch. 115C (2002) or any other applicable state or federal law. In addition, this letter does not release any party from liability for nonpetroleum contamination, if present, under Minn. Stat. ch. 115B (2002), the Minnesota Superfund Law.

If future development of this property or the surrounding area is planned, it should be assumed that petroleum contamination may still be present. If petroleum contamination is encountered during future development work, the MPCA staff should be notified immediately.

For specific information regarding petroleum contamination that may remain at this leak site, please call the MPCA File Request Program at 651-757-2799 or 651-757-2309. The "Leak/Spill and Underground Storage Tank File Request Form" (Fact Sheet #36) must be completed prior to arranging a time for file review.

If you have any questions please call me at 218-846-8111. If you are calling long distance, you may reach the MPCA by calling 1-800-657-3864.

Sincerely,

Arlene Furuseth

Arlene Furuseth
Project Leader
Detroit Lakes Office
Remediation Division

AF:gd

cc: Tim Grape, AECOM, Minneapolis
Jim Taddei, City Clerk, Alexandria
Jeff Karrow, Fire Chief, Alexandria
Kayla Fisher, Environmental Coordinator, Douglas County