UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
Boston, MA 02109-3912

October 7, 2011

Superfund Records Center
SITE: Wells G&H
BREAK: 8.1
OTHER: 494356

Craig Ziady, Esq.
Cumming Properties
c/o: Anderson Estates LLC
200 West Cumming Park
Woburn, MA 01801

Dear Mr. Ziady:

EPA has received and initially reviewed the first round of indoor air and sub-slab soil gas validated data collected from the building on your property south of 369 Washington Street, Woburn, MA. Our preliminary review focused only on contaminants in indoor air that may be entering your building via vapor intrusion. Our preliminary review of the first round of validated data in March/April 2011 indicates that vapor intrusion does not pose a health threat inside the building. It is important to note, however, that EPA's final review will be based on evaluation of the validated data from two rounds of indoor air sampling, one round conducted during heating conditions in March/April, as has already been done, and one round conducted during non-heating conditions in June 2011, as well as groundwater and sub-slab data.

Vapor intrusion is the movement of volatile contaminants from groundwater into a structure. Our preliminary review does not consider those contaminants that may be present in indoor air from unrelated sources such as those released from cleaning products, building materials, personal care products or from the storage of solvents and fuels.

Please find attached a figure illustrating the locations where the first round of indoor air samples were collected within the building on your property in March/April 2011, and a table summarizing the first round of validated data collected. Please note that the following descriptions apply to the attached table: indoor air samples are denoted as "IA"; sub-slab soil gas samples are denoted as "SS"; blind duplicates/field duplicates for sub-slab soil gas samples "260407-17-SS1" and "260407-19-SS1" are denoted as "BD03" and "BD04", respectively; and outdoor air samples are denoted as "OA".

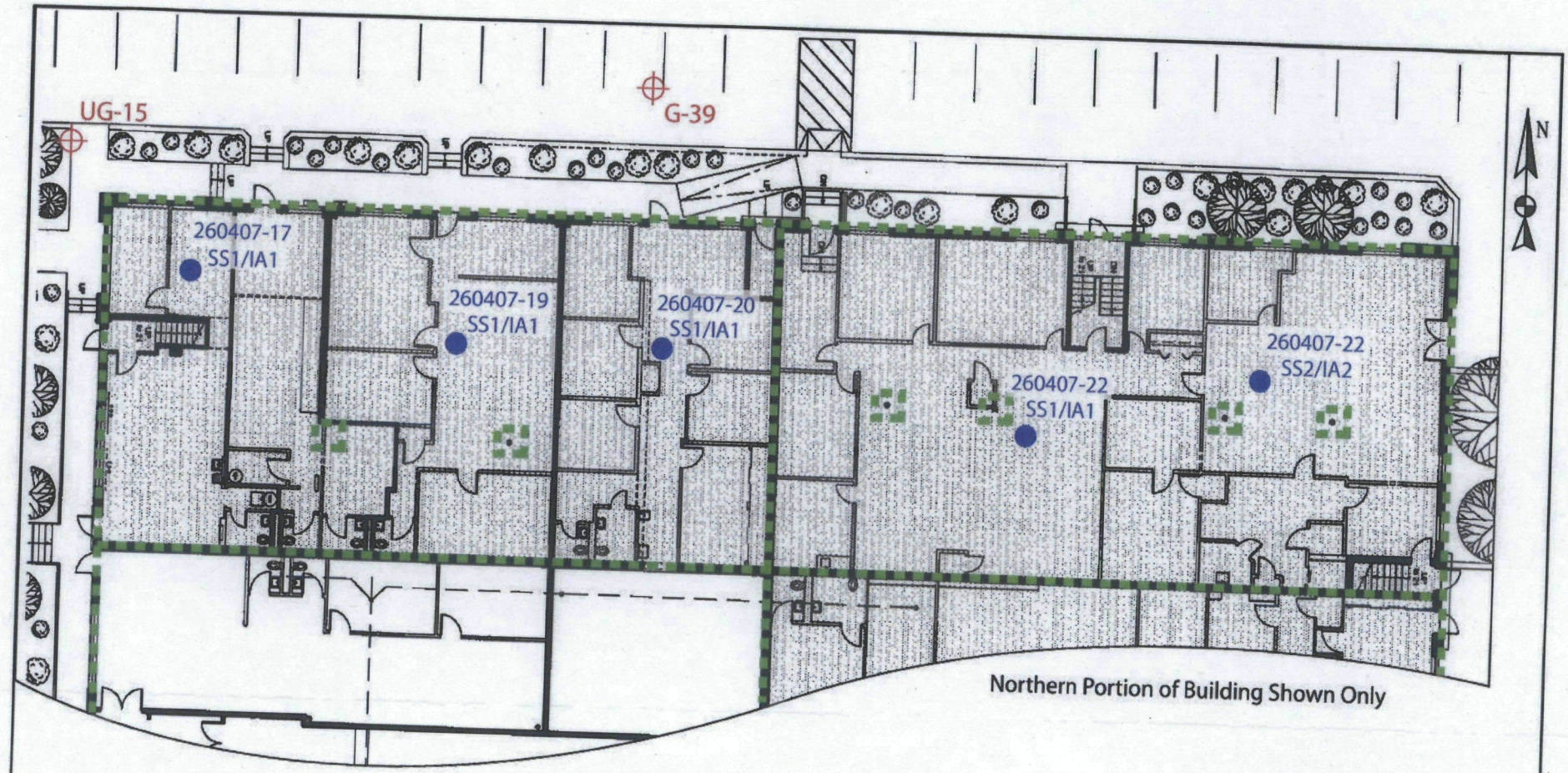
EPA anticipates completing its comprehensive evaluation of both rounds of validated data and providing you with further information regarding the overall results in November 2011.

SDMS DocID 494356

If you have any questions regarding this letter, or would like to meet and discuss the first round results, please contact me at (617) 918-1323.

Sincerely,

Joseph F. LeMay, P.E.
Office of Site Remediation and Restoration



Monitoring Well

Co-located sub-slab soil gas and indoor air sampling location

Load-bearing structure with sub-surface footer

0 5' 10' 25'

Northern Portion of Basement Floor Plan
and Indoor Sampling Locations
Commercial Building

Wells G&H Superfund Site
Woburn, Massachusetts

Geosyntec consultants

ACTON, MASSACHUSETTS | FEBRUARY 2011

Figure 1

Air-Phase Laboratory Data
Wells G and H Superfund Site
Woburn, Massachusetts

Method Group	Parameter	Units	Indoor Air					Outdoor Air	
			260407-17-IA1-3/31/2011	260407-19-IA1-3/31/2011	260407-20-IA1-3/31/2011	260407-22-IA1-3/31/2011	260407-22-IA2-3/31/2011	260407-OA1-3/31/2011	260407-OA2-3/31/2011
ΔPH									
	Adjusted C5-C8 Aliphatics	µg/m3	2,200	130	1,000	160	180	<12	<12
	Adjusted C9-C12 Aliphatics	µg/m3	460	120	99	140	200	<14	<14
	Aromatics C9-C10	µg/m3	14	14	15	10J	<10	<10	<10
	Benzene	µg/m3	<2	<2	<2	<2	<2	<2	<2
	Butadiene	µg/m3	<2	<2	<2	<2	<2	<2	<2
	Ethyl benzene	µg/m3	<2	<2	<2	<2	<2	<2	<2
	m&p-Xylene	µg/m3	<4	<4	5.2	5.1	4.5	<4	<4
	Methyl tert-butyl ether (MTBE)	µg/m3	<2	<2	<2	<2	<2	<2	<2
	Naphthalene	µg/m3	<2	<2	<2	<2	<2	<2	<2
	o-Xylene	µg/m3	<2	<2	<2	<2	<2	<2	<2
	Toluene	µg/m3	71	11	56	23	23	<2	<2
Volatile Organic Compounds									
	1,1,1-Trichloroethane	µg/m3	0.153	<0.109	0.174	<0.109	<0.109	<0.109	<0.109
	1,1,2-Trichloroethane	µg/m3	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109
	1,1-Dichloroethane	µg/m3	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
	1,1-Dichloroethene	µg/m3	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
	1,2,4-Trimethylbenzene	µg/m3	0.866	1.94	1	1.16	1.1	0.138	0.113
	1,2-Dichloroethane	µg/m3	0.406	0.214	9.82	0.489	0.437	<0.081	<0.081
	1,2-Dichloropropane	µg/m3	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092
	1,3-Dichlorobenzene	µg/m3	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
	1,4-Dichlorobenzene	µg/m3	<0.12	1.15	<0.12	<0.12	<0.12	<0.12	<0.12
	Acetone	µg/m3	3,460	55.5J	89.8	128	1,050	6	4.96
	Benzene	µg/m3	0.769	0.935	0.938	0.718	0.766	0.582	0.46
	Bromodichloromethane	µg/m3	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134
	Bromoform	µg/m3	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206
	Butadiene	µg/m3	0.115	0.21	0.126	<0.044	<0.044	0.077	0.044
	Carbon tetrachloride	µg/m3	0.647	0.478	0.515	0.484	0.471	0.497	0.471
	Chlorobenzene	µg/m3	<0.092	0.202	<0.092	<0.092	0.097	<0.092	<0.092
	Chloroform	µg/m3	0.337	0.165	0.829	1.1	63.2	<0.098	<0.098
	cis-1,2-Dichloroethene	µg/m3	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
	Dichloromethane (Methylene chloride)	µg/m3	<1.74	<1.74	<1.74	<1.74	<1.74	1.96	<1.74
	Ethyl acetate	µg/m3	367	4.94	22.2	10.5	9.24	<1.8	<1.8
	Ethyl benzene	µg/m3	0.928	1.23	1.46	1.34	1.24	0.13	0.1
	Ethylene dibromide	µg/m3	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154
	Isopropylbenzene	µg/m3	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46
	Methyl tert-butyl ether (MTBE)	µg/m3	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072
	Naphthalene	µg/m3	<0.32	<0.581	<0.445	<0.382	<0.393	<0.131	<0.131
	Tetrachloroethene	µg/m3	0.352	0.149	0.488	0.454	0.63	<0.136	<0.136
	Toluene	µg/m3	64.5	10	53.5	21.5	21.7	0.757	0.621
	trans-1,2-Dichloroethene	µg/m3	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
	trans-1,3-Dichloropropene	µg/m3	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
	Trichloroethene	µg/m3	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107
	Vinyl Chloride	µg/m3	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
	Xylenes (Total)	µg/m3	4.24	4.95	6.94	6.76	6.17	0.499	0.369

Notes: < = Not detected, less than laboratory reporting limit.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Air-Phase Laboratory Data
Wells G and H Superfund Site
Woburn, Massachusetts

Method Group	Parameter	Units	Sub-Slab Soil Gas						
			260407-17-SS1-3/31/2011	260407-19-SS1-4/1/2011	260407-20-SS1-3/31/2011	260407-22-SS1-4/1/2011	260407-22-SS2-4/1/2011	BD03-3/31/2011	BD04-4/1/2011
APH									
	Adjusted C5-C8 Aliphatics	µg/m3	200	230J	90	140	<56	190	300J
	Adjusted C9-C12 Aliphatics	µg/m3	18	310J	120	1,300	<14	20	420J
	Aromatics C9-C10	µg/m3	<10	13J	19	14	<10	<10	18J
	Benzene	µg/m3	<2	<2	<2	<2	<2	<2	<2
	Butadiene	µg/m3	<2	<2	<2	<2	<2	<2	<2
	Ethyl benzene	µg/m3	<2	2.8	36	<2	2.8	<2	3
	m&p-Xylene	µg/m3	<4	13	180	<4	14	<4	15
	Methyl tert-butyl ether (MTBE)	µg/m3	<2	<2	<2	<2	<2	<2	<2
	Naphthalene	µg/m3	<2	2.5J	<2	<2	<2	<2	3.3J
	o-Xylene	µg/m3	<2	4.6	140	<2	14	<2	5.8
	Toluene	µg/m3	3.1	<2	3	<2	<2	3.4	<2
Volatile Organic Compounds									
	1,1,1-Trichloroethane	µg/m3	0.365	3.97	4.18	0.469	1.48	0.365	5.08
	1,1,2-Trichloroethane	µg/m3	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109
	1,1-Dichloroethane	µg/m3	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
	1,1-Dichloroethene	µg/m3	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
	1,2,4-Trimethylbenzene	µg/m3	0.246	1.53J	3.46	0.55	0.265	0.255	1.98J
	1,2-Dichloroethane	µg/m3	<0.081	<0.081	0.271	<0.081	<0.081	<0.081	<0.081
	1,2-Dichloropropene	µg/m3	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092
	1,3-Dichlorobenzene	µg/m3	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
	1,4-Dichlorobenzene	µg/m3	<0.12	0.45	0.222	0.12	<0.12	<0.12	0.559
	Acetone	µg/m3	1,070	76	167	95.6	140	1,360	90.4
	Benzene	µg/m3	<0.223	0.421	0.677	0.348	<0.223	<0.223	0.453
	Bromodichloromethane	µg/m3	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134
	Bromoform	µg/m3	<0.206	<0.206	<0.206	<0.206	<0.206	0.32J	<0.206
	Butadiene	µg/m3	<0.044	0.046	0.214	<0.044	<0.044	<0.044	0.049
	Carbon tetrachloride	µg/m3	0.408	0.176J	0.163	0.295	0.308	0.415	<0.126
	Chlorobenzene	µg/m3	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092
	Chloroform	µg/m3	0.22	1.46	1.91	<0.098	0.161	0.22	1.66
	cis-1,2-Dichloroethene	µg/m3	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
	Dichloromethane (Methylene chloride)	µg/m3	<1.74	14.4J	4.46	17	10.3	<1.74	<1.74
	Ethyl acetate	µg/m3	<1.8	<1.8	<1.8	<1.8	<1.8	2.31J	<1.8
	Ethyl benzene	µg/m3	0.104	2.38	35	0.178	2.7	0.126	2.98
	Ethylene dibromide	µg/m3	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154
	Isopropylbenzene	µg/m3	<2.46	<2.46	4.33	<2.46	<2.46	<2.46	<2.46
	Methyl tert-butyl ether (MTBE)	µg/m3	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072
	Naphthalene	µg/m3	<0.498	2.03J	1.2J	<0.733	<0.215	<0.592	2.7J
	Tetrachloroethene	µg/m3	4.45	12.9J	19.2	80	2,310	5.54	16.7J
	Toluene	µg/m3	2.59	1.16	2.68	0.493	0.554	2.75	1.46
	trans-1,2-Dichloroethene	µg/m3	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
	trans-1,3-Dichloropropene	µg/m3	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
	Trichloroethene	µg/m3	<0.107	0.15	0.113	0.177	3.83	<0.107	0.177
	Vinyl Chloride	µg/m3	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
	Xylenes (Total)	µg/m3	0.547	17	321	1.06	27.8	0.564	21.2

Notes: < = Not detected, less than laboratory reporting limit.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
BD04-4/1/2011 is a blind duplicate of sample 260407-20-SS1
BD03-3/31/2011 is a blind duplicate of sample 260407-17-SS1