

# **2<sup>nd</sup> Revised Task I Supplemental Investigation Report**

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**Burlington Northern Livingston Shop Complex  
Livingston, Montana**

**Volume 1 of 8**

**BNSF Railway Company**

**1796021.16  
August 2017**

**Kennedy/Jenks Consultants**

**2<sup>nd</sup> Revised**  
**Task I Supplemental Investigation Report**  
**Burlington Northern Livingston Shop Complex**  
**Livingston, Montana**

**Volume 1 of 8**

**Prepared for**  
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**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	19	Commercial	Main Floor	10-AS-19 10-SS-19-1	Indoor Air	3/11/2010	0.21	J	ND	1.0	0.34	J	0.16	J
KJ	19	Commercial	Subslab	10-SS-19-1-FG (fixed gases only) 10-SS-19-1-RA (Radon only)	Soil Gas	3/11/2010	0.9	J	ND	2.0	2.2		3.0	
DEQ	19	Commercial	Subslab	DEQ-10-SS-19-1 10-SS-19-2 10-SS-19-2-RA (Radon only)	Soil Gas	3/11/2010	ND	0.80	ND	0.80	1.4		1.6	
KJ	19	Commercial	Subslab	10-SS-19-3 10-SS-19-3-RA (Radon only)	Soil Gas	3/11/2010	18		ND	1.0	3.0		4.9	
KJ	19	Commercial	Subslab	09-AS-19 09-AS-19-R1 (Radon only)	Soil Gas	3/11/2010	2.2		ND	1.0	2.5		4.9	
KJ	19	Commercial	Office area	09-AS-19-R1 (Radon only)	Indoor Air	3/18/2009	0.17	J	0.016	J	0.62		0.35	
KJ	19	Commercial	Subslab	09-SG-19	Soil Gas	3/18/2009	31		ND	5.0	ND	5.0	ND	5.0
KJ	20	Commercial	Main Floor	10-AS-20 10-SS-20-1 10-SS-20-1-FG (fixed gases only) 10-SS-20-1-RA (radon only)	Indoor Air	3/11/2010	0.47	J	ND	1.0	32		17	
KJ	20	Commercial	Subslab	10-SS-20-2 10-SS-20-2-RA (radon only)	Soil Gas	3/11/2010	510		ND	2.0	6.4		7.1	
KJ	20	Commercial	Subslab	10-SS-20-3 10-SS-20-3-RA (radon only)	Soil Gas	3/11/2010	880		ND	2.0	8.3		27	
KJ	20	Commercial	Subslab	09-AS-20 09-AS-20-R1 (Radon only)	Soil Gas	3/11/2010	100		ND	1.0	8.1		9.4	
KJ	20	Commercial	Main Floor	09-AS-20-DEQ	Indoor Air	3/19/2009	0.90		0.069		56		22	
DEQ	20	Commercial	Main Floor	09-SG-20	Indoor Air	3/19/2009	1.0		ND	0.018	73		38	
KJ	20	Commercial	Subslab	09-SG-20-DEQ	Soil Gas	3/19/2009	920		ND	5.0	8.8		7.3	
DEQ	20	Commercial	Subslab	09-SG-20-DEQ	Soil Gas	3/19/2009	1400		ND	3.1	3.8		3.8	
KJ	23	Residential	Main Living Area	08-AS-23	Indoor Air	2/26/2008	0.14	J	0.034		0.57		0.17	
KJ	23	Residential	Other	08-SG-23	Soil Gas	2/26/2008	23		6.5		ND	25	ND	25
KJ	23	Residential	Main Living Area	05-AS-23L	Indoor Air	12/15/2005	0.45		0.072					
KJ	23	Residential	Main Living Area	D1-AS-12-14-05 (Dup of 05-AS-23L)	Indoor Air	12/15/2005	0.30		0.077					
KJ	28	Commercial	Office	08-AS-28	Indoor Air	2/28/2008	0.24		0.028		0.58		0.37	
KJ	31	Residential	Living room	10-AS-31	Indoor Air	3/17/2010	0.065	J	1.2		2.4		0.82	J
KJ	31	Residential	Subslab	10-SS-31 10-SS-31-FG (fixed gases only) 10-SS-31-RA (Radon only)	Soil Gas	3/17/2010	4.4	j	0.6	J	2.7		2.9	
KJ	31	Residential	Subslab	D1-SS-03-17-10 (Dup of 10-SS-31)	Soil Gas	3/17/2010	14	j	0.9	J	2.4		2.9	
KJ	31	Residential	Living area	09-AS-31	Indoor Air	2/26/2009	0.069	J	0.41		7.3		1.9	
KJ	38	Residential	Main Floor	11-AS-38-M	Indoor Air	4/1/2011	0.30		0.045	J	0.40		0.12	J
KJ	38	Residential	Hallway	11-AS-38-B	Indoor Air	4/1/2011	0.069	J	0.092	J	0.30		0.092	J
KJ	38	Residential	Basement	11-SS-38-1	Soil Gas	4/1/2011	4.8		ND	1.0	7.7		2.6	
KJ	38	Residential	Subslab	11-SS-38-2	Soil Gas	4/1/2011	1.5		ND	1.0	2.0		2.4	
DEQ	38	Residential	Subslab	11-SS-38-2-DEQ	Soil Gas	4/1/2011	ND	2.0	ND	2.0	ND	2.0	2.8	
KJ	38	Residential	Subslab	11-SS-38-3	Soil Gas	4/1/2011	1.0		ND	1.0	0.95		3.5	
KJ	38	Residential	Northeastern room	10-AS-38L	Indoor Air	3/17/2010	0.024	J	0.022	J	0.42	J	0.16	J
KJ	38	Residential	Basement	10-AS-38B 10-SS-38-1 10-SS-38-1-FG (fixed gases only) 10-SS-38-1-RA (Radon only)	Indoor Air	3/17/2010	0.039	J	0.016	J	0.46	J	0.24	J
KJ	38	Residential	Subslab	10-SS-38-2 10-SS-38-2-RA (Radon only)	Soil Gas	3/17/2010	17		ND	1.0	15		3.8	
KJ	38	Residential	Subslab	10-SS-38-3 10-SS-38-3-RA (Radon only)	Soil Gas	3/17/2010	570		ND	1.0	5.3		1.7	
KJ	38	Residential	Subslab	10-SS-38-3-RA (Radon only)	Soil Gas	3/17/2010	58		ND	1.0	3.4		3.2	
KJ	39	Residential	Living Room	11-AS-39-M-1	Indoor Air	3/31/2011	0.94		0.041	J	0.54		0.42	
KJ	39	Residential	Laundry Room	11-AS-39-M-2	Indoor Air	3/31/2011	0.98		0.029	J	0.40		0.49	
KJ	39	Residential	Basement	11-AS-39-B	Indoor Air	3/31/2011	0.65		ND	0.15	0.20	J	0.12	
DEQ	39	Residential	Basement	11-AS-39-B-DEQ	Indoor Air	3/31/2011	1.2		ND	0.043	0.30		0.23	
KJ	39	Residential	Soil gas	11-SG-39-1	Soil Gas	3/31/2011	5.6		ND	0.50	15		4.2	
KJ	39	Residential	Subslab	11-SS-39-1	Soil Gas	3/31/2011	5.7		ND	0.50	6.7		3.7	
KJ	39	Residential	Subslab	11-SS-39-2	Soil Gas	3/31/2011	4.5		0.58		3.1		3.7	
KJ	39	Residential	Living room	10-AS-39L	Indoor Air	3/18/2010	1.3		0.032	J	3.3		0.52	J
KJ	39	Residential	Basement	10-AS-39B 10-SS-39-1 10-SS-39-1-FG (fixed gases only) 10-SS-39-1-RA (Radon only)	Indoor Air	3/18/2010	2.3		0.64	J	0.59	J	0.27	J
KJ	39	Residential	Subslab	10-SS-39-1-RA (Radon only)	Soil Gas	3/18/2010	4.1		ND	1.0	7.1		5.3	
KJ	39	Residential	Soil Gas (2 ft.)	10-SG-39-3	Soil Gas	3/18/2010	24		ND	1.0	11		4.7	
KJ	39	Residential	Soil Gas (5 ft.)	10-SG-39-2	Soil Gas	3/18/2010	11		ND	1.0	3.8		3.9	
KJ	39	Residential	Living Room	08-AS-39L	Indoor Air	2/27/2008	0.18		0.042		2.5		0.087	J
KJ	39	Residential	Basement	08-AS-39B	Indoor Air	2/27/2008	1.6		0.040		0.36		0.15	J
KJ	39	Residential	Subslab	08-SG-39	Soil Gas	2/27/2008	30		ND	5.0	ND	25	ND	25
KJ	42	Residential	Bedroom	09-AS-42	Indoor Air	2/23/2009	0.046	J	0.048		5.1		1.3	
DEQ	42	Residential	Bedroom	09-AS-42-DEQ	Indoor Air	2/23/2009	0.072		0.11		15		4.3	
KJ	42	Residential	Soil Gas (2 ft)	09-SG-42	Soil Gas	2/23/2009	ND	5.0	ND	5.0	6.3		ND	5.0
DEQ	42	Residential	Soil Gas (2 ft)	09-SG-42-DEQ	Soil Gas	2/23/2009	ND	3.0	ND	3.0	ND	3.0	ND	3.0
KJ	43	Residential	Rec. Room	05-AS-43L	Indoor Air	12/14/2005	ND	0.28	ND	0.033				



**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	44	Commercial	Office area	09-AS-44	Indoor Air	3/5/2009	0.16	J	0.087		0.41		0.098	J
KJ	44	Commercial	Other (mobile)	09-SG-44	Soil Gas	3/5/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	47	Residential	Bedroom	09-AS-47	Indoor Air	2/12/2009	0.057	J	ND	0.031	1.4		0.26	
DEQ	47	Residential	Bedroom	09-AS-47DEQ	Indoor Air	2/12/2009	0.090		ND	0.020	1.7		0.43	
KJ	47	Residential	Other (mobile)	09-SG-47	Soil Gas	2/12/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	47	Residential	Living Room	08-AS-47L	Indoor Air	2/25/2008	0.18	J	0.11		1.2		0.93	
KJ	47	Residential	Other	08-SG-47	Soil Gas	2/25/2008	52		20		ND	25	53	
KJ	69	Commercial	Main Floor	10-AS-69M	Indoor Air	3/24/2010	0.84	J	ND	1.0	2.4		1.6	
KJ	69	Commercial	Main Floor	08-AS-69M	Indoor Air	2/25/2008	0.76		0.085		8.0		2.7	
DEQ	78	Commercial	Lab Area	08-AS-78L-1S	Indoor Air	3/3/2008	ND	0.27	ND	0.22	0.71		0.24	
KJ	78	Commercial	Lab Area	08-AS-78L	Indoor Air	3/3/2008	1.0	j	0.083	j	2.4	j	2.4	j
KJ	78	Commercial	Basement	08-AS-78B	Indoor Air	3/3/2008	0.42		0.027	J	0.56		0.11	J
KJ	78	Commercial	Basement	07-AS-78B	Indoor Air	4/2/2007	1.2		0.061		0.61		0.45	
KJ	78	Commercial	Basement	06-SG-78-RI	Indoor Air	4/6/2006								
KJ	78	Commercial	Subslab	06-SG-78-1	Soil Gas	4/6/2006	1500		95		ND	5.0	8.8	
KJ	78	Commercial	Subslab	06-SG-78-2	Soil Gas	4/6/2006	43		ND	5.0	74		26	
KJ	78	Commercial	Subslab	D1-SG-04-06-06 (Dup of 06-SG-78-2)	Soil Gas	4/6/2006	39		ND	5.0	46		22	
KJ	78	Commercial	Lab Area	05-AS-78L	Indoor Air	12/14/2005	2.0		ND	0.030				
KJ	78	Commercial	Basement	05-AS-78B	Indoor Air	12/14/2005	1.1		ND	0.031				
KJ	80	Residential	Living Room	08-AS-80	Indoor Air	3/5/2008	6.4		0.53		1.2		0.87	
KJ	80	Residential	Other	08-SG-80	Soil Gas	3/5/2008	21		5.0		ND	25	ND	25
KJ	83	Residential	Living Room	11-AS-83	Indoor Air	4/6/2011	0.50		ND	0.17	0.27		0.15	
KJ	83	Residential	Crawlspace	11-CS-89	Soil Gas	4/5/2011	1.9		ND	0.50	1.7		3.4	
KJ	83	Residential	Soil gas	11-SG-89	Soil Gas	4/5/2011	9.3		ND	0.50	6.5		3.6	
KJ	83	Residential	Office	10-AS-83	Indoor Air	3/11/2010	5.7		0.020	J	0.46	J	1.3	
DEQ	83	Residential	Office	DEQ-10-AS-83	Indoor Air	3/12/2010	7.9		ND	1.0	ND	1.0	ND	1.0
KJ	83	Residential	Crawlspace	10-CS-83	Soil Gas	3/11/2010	1.0		ND	1.0	1.5		3.2	
KJ	83	Residential	Living Room	08-AS-83L	Indoor Air	2/26/2008	3.6		0.036		0.57		4.6	
DEQ	83	Residential	Living Room	08-AS-83LDEQ	Indoor Air	2/26/2008	7.0		ND	0.54	1.5		9.3	
KJ	84	Commercial	Main Floor	09-AS-84 (Radon only)	Indoor Air	2/11/2009	0.33		0.036		0.86		5.5	
KJ	84	Commercial	Main Floor	D1-AS-02-11-09 (Dup of 09-AS-84)	Indoor Air	2/11/2009	0.33		0.065		0.98		6.6	
KJ	84	Commercial	Subslab	09-SG-84	Soil Gas	2/11/2009	26		ND	5.0	6.6		5.3	
KJ	84	Commercial	Office area	08-AS-84M	Indoor Air	2/27/2008	0.20		0.020	J	0.29		0.11	J
KJ	84	Commercial	Basement dirt floor	08-SG-84	Soil Gas	2/27/2008	83		14		ND	25	60	
KJ	91	Commercial	Back room	10-AS-91-M1	Indoor Air	3/22/2010	0.36	J	0.026	J	0.56	J	0.43	J
KJ	91	Commercial	Office area	10-AS-91-M2	Indoor Air	3/22/2010	2.6		0.075	J	2.8		8.7	
KJ	91	Commercial	Subslab	10-SS-91-1 (fixed gases only)	Soil Gas	3/22/2010	5400		100		6.5		11	
KJ	91	Commercial	Subslab	10-SS-91-1-RA (Radon only)	Soil Gas	3/22/2010	280		12		1.7		2.7	
KJ	91	Commercial	Subslab	10-SS-91-2 (Radon only)	Soil Gas	3/22/2010	590		45		45		11	
KJ	91	Commercial	Shop Area	08-AS-91M-1	Indoor Air	2/25/2008	6.7		0.28		3.6		2.6	
KJ	91	Commercial	office	08-AS-91M-2	Indoor Air	2/25/2008	0.26		0.024		0.76		0.21	
KJ	91	Commercial	Subslab	08-SG-91	Soil Gas	2/25/2008	5200		89		ND	25	ND	25
KJ	92	Commercial	Storeroom	10-AS-92-M	Indoor Air	3/23/2010	0.15	J	0.055	J	12		8.0	
DEQ	92	Commercial	Storeroom	10-AS-92-DEQ	Indoor Air	3/22/2010	ND	0.85	ND	0.85	11		7.3	
DEQ	92	Commercial	Storeroom	10-AS-92-DEQ2	Indoor Air	3/23/2010	ND	0.95	ND	0.95	20		12	
KJ	92	Commercial	Subslab	10-SS-92 (fixed gases only)	Soil Gas	3/22/2010	44		0.6	J	5.0		55	
DEQ	92	Commercial	Subslab	10-SS-92-RA (Radon only)	Soil Gas	3/22/2010	63		ND	0.85	3.0		81	
KJ	92	Commercial	Office area	08-AS-92-1	Indoor Air	2/26/2008	0.25		0.20		13		7.5	
KJ	92	Commercial	Office area	08-AS-92-2	Indoor Air	2/26/2008	0.38		0.24		12		7.4	
KJ	93	Residential	Bedroom	09-AS-93	Indoor Air	3/6/2009	0.85		0.22		6.5		0.18	
KJ	93	Residential	Soil Gas (2.5 ft)	09-SG-93	Soil Gas	3/6/2009	26		ND	5.0	8.7		ND	5.0
KJ	93	Residential	Living Room	08-AS-93	Indoor Air	2/28/2008	ND	0.20	ND	0.023	3.4		ND	0.12
KJ	93	Residential	Crawlspace dirt floor (5 ft)	08-SG-93	Soil Gas	2/28/2008	74		ND	5.0	ND	25	ND	25
KJ	99	Residential	Living area	10-AS-99	Indoor Air	3/17/2010	0.23	J	0.015	J	0.34	J	0.28	J
DEQ	99	Residential	Living area	DEQ-10-AS-99	Indoor Air	3/18/2010	ND	0.87	ND	0.87	ND	0.87	ND	0.87
KJ	99	Residential	Subslab	10-SS-99 (fixed gases only)	Soil Gas	3/17/2010	72		ND	1.0	21		14	
DEQ	99	Residential	Subslab	10-SS-99-RA (Radon only)	Soil Gas	3/17/2010	ND	17	ND	17	ND	17	ND	17
DEQ	99	Residential	Living Room	DEQ-10-SS-99	Soil Gas	3/17/2010	ND	17	ND	17	ND	17	ND	17
KJ	99	Residential	Living Room	08-AS-99-S	Indoor Air	3/5/2008	9.1		0.36		5.1		5.9	
KJ	99	Residential	Living Room	08-AS-99	Indoor Air	3/5/2008	4.1	j	0.15	j	3.2	j	4.4	j
DEQ	99	Residential	Subslab	08-SG-99-S	Soil Gas	3/5/2008	11		720		6.4		ND	4.3
KJ	99	Residential	Subslab	08-SG-99	Soil Gas	3/5/2008	5.0		ND	5.0	ND	25	ND	25
KJ	99	Residential	Living Room	06-SG-99-RI	Indoor Air	4/7/2006								
KJ	99	Residential	Subslab	06-SG-99-1	Soil Gas	4/7/2006	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	99	Residential	Living Room	05-AS-99L	Indoor Air	12/12/2005	1.7		0.084					

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	102	Commercial	Office	10-AS-102	Indoor Air	3/25/2010	4.1		1.3	J	79		140	
DEQ	102	Commercial	Office	DEQ-10-AS-102	Indoor Air	3/26/2010	8.8		ND	3.0	120		220	
KJ	102	Commercial	Office	D1-AS-03-25-10 (Dup of 10-AS-102)	Indoor Air	3/25/2010	4.1		1.4	J	78		140	
KJ	102	Commercial	Subslab	10-SS-102-1-FG (fixed gases only)	Soil Gas	3/25/2010	17		ND	1.0	6.4		56	
DEQ	102	Commercial	Subslab	DEQ-10-SS-102-1	Soil Gas	3/25/2010	22		ND	0.82	4.1		30	
KJ	102	Commercial	Subslab	10-SS-102-2-RA (Radon only)	Soil Gas	3/25/2010	48		0.7	J	11		170	
KJ	102	Commercial	Subslab	10-SS-102-3-RA (Radon only)	Soil Gas	3/25/2010	130		ND	1.0	39		160	
KJ	102	Commercial	Office area	09-AS-102-RI	Indoor Air	3/5/2009	ND	38	ND	30	110		66	
DEQ	102	Commercial	Office area	09-AS-102DEQ	Indoor Air	3/5/2009	3.6		0.65		120		91	
KJ	102	Commercial	Subslab	09-SG-102	Soil Gas	3/5/2009	12		ND	5.0	24		17	
DEQ	102	Commercial	Subslab	09-SG-102DEQ	Soil Gas	3/5/2009	9.4		ND	2.6	7.3		12	
KJ	103	Residential	Main Floor	11-AS-103	Indoor Air	4/6/2011	0.25		0.028	J	0.52		1.9	
KJ	103	Residential	Subslab	11-SS-103-1	Soil Gas	4/6/2011	5.0		ND	0.50	8.1		5.4	
KJ	103	Residential	Subslab	11-SS-103-2	Soil Gas	4/6/2011	46		ND	0.50	3.0		8.0	
KJ	103	Residential	Living room	10-AS-103	Indoor Air	3/25/2010	0.22	J	0.041	J	2.6		2.4	
KJ	103	Residential	Subslab	10-SS-103-1-FG (fixed gases only)	Soil Gas	3/25/2010	24		0.3	J	2.6		33	
KJ	103	Residential	Subslab	10-SS-103-2	Soil Gas	3/25/2010	32	j	ND	1.0	5.6	j	56	j
KJ	103	Residential	Subslab	D1-SS-03-25-10 (Dup of 10-SS-103-2)	Soil Gas	3/25/2010	100	j	ND	2.0	2.4	j	39	j
KJ	103	Residential	Living area	09-AS-103	Indoor Air	3/6/2009	0.30	J	0.046		4.9		2.4	
KJ	103	Residential	Living area	D1-AS-03-06-09 (Dup of 09-AS-103)	Indoor Air	3/6/2009	0.28	J	0.033	J	4.8		2.4	
KJ	103	Residential	Subslab	09-SG-103	Soil Gas	3/6/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	103	Residential	Subslab	D1-SG-03-06-09 (Dup of 09-SG-103)	Soil Gas	3/6/2009	70		ND	5.0	ND	5.0	ND	5.0
KJ	108	Commercial	Office Area	08-AS-108M	Indoor Air	2/25/2008	0.51		17		7.3		4.4	
KJ	108	Commercial	Office	06-SG-108-RI	Indoor Air	4/6/2006								
KJ	108	Commercial	Subslab	06-SG-108-1	Soil Gas	4/6/2006	51		5.6		ND	5.0	17	
KJ	108	Commercial	Subslab	06-SG-108-2	Soil Gas	4/6/2006	120		7.3		ND	5.0	18	
KJ	108	Commercial	Subslab	06-SG-108-3	Soil Gas	4/6/2006	15		7.2		7.4		18	
KJ	108	Commercial	Office Area	05-AS-108L	Indoor Air	12/14/2005	0.41		120					
KJ	109	Residential	Bedroom	11-AS-109-M	Indoor Air	4/4/2011	0.060	J	ND	0.20	1.5		0.50	
KJ	109	Residential	Basement	11-AS-109-B	Indoor Air	4/4/2011	0.15	J	0.027	J	1.3		0.46	
DEQ	109	Residential	Basement	11-AS-109-B-DEQ	Indoor Air	4/4/2011	0.14		ND	0.048	1.8		0.65	
KJ	109	Residential	Subslab	11-SS-109-1	Soil Gas	4/4/2011	5.9		ND	5.0	4.2		ND	5.0
DEQ	109	Residential	Subslab	11-SS-109-1-DEQ	Soil Gas	4/4/2011	3.6		ND	2.5	4.0		ND	2.5
KJ	109	Residential	Subslab	11-SS-109-2	Soil Gas	4/4/2011	33		ND	0.50	3.1		3.8	
KJ	109	Residential	Subslab	11-SS-109-3	Soil Gas	4/4/2011	30		ND	0.50	3.6		3.8	
KJ	109	Residential	Dining room	10-AS-109L	Indoor Air	3/11/2010	0.12	J	ND	1.0	0.63	J	0.23	J
KJ	109	Residential	Basement	10-AS-109B	Indoor Air	3/11/2010	0.22	J	ND	1.0	0.75	J	0.28	J
DEQ	109	Residential	Basement	DEQ-10-AS-109B	Indoor Air	3/12/2010	ND	0.93	ND	0.93	ND	0.93	ND	0.93
KJ	109	Residential	Basement	D1-AS-03-11-10 (Dup of 10-AS-109B)	Indoor Air	3/11/2010	0.19	J	ND	1.0	0.72	J	0.26	J
KJ	109	Residential	Subslab	10-SS-109-1-FG (fixed gases only)	Soil Gas	3/11/2010	26		ND	1.0	4.5		190	
DEQ	109	Residential	Subslab	DEQ-10-SS-109-1	Soil Gas	3/11/2010	35		ND	0.87	2.8		16	
KJ	109	Residential	Subslab	10-SS-109-2-RA (Radon only)	Soil Gas	3/11/2010	30		ND	1.0	6.8		11	
KJ	109	Residential	Subslab	10-SS-109-3-RA (Radon only)	Soil Gas	3/11/2010	19		ND	1.0	7.0		22	
DEQ	109	Residential	Subslab	DEQ-10-SS-109-3	Soil Gas	3/11/2010	24		ND	0.83	2.8		15	
KJ	109	Residential	Bedroom	08-AS-109L	Indoor Air	2/26/2008	0.040	J	0.084		0.41		0.33	
KJ	109	Residential	Basement	08-AS-109B	Indoor Air	2/26/2008	1.9		0.037		0.64		2.9	
KJ	109	Residential	Basement	D1-AS-02-26-08 (Dup of 08-AS-109B)	Indoor Air	2/26/2008	1.4		0.024		0.54		2.3	
KJ	109	Residential	Subslab	08-SG-109	Soil Gas	2/26/2008	52		18		ND	25	ND	25
KJ	111	Commercial	Main Floor	12-AS-111-3-RA (Radon only)	Indoor Air	2/24/2012	0.079	J	ND	0.18	0.38		0.14	J
KJ	111	Commercial	Main Floor	12-DUP-AS-022412 (Dup of 12-As-111)	Indoor Air	2/24/2012	0.080	J	ND	0.17	0.37		0.14	
KJ	111	Commercial	Subslab	12-SS-111-3-R (Radon only)	Soil Gas	2/24/2012	28		ND	1.0	3.4		7.7	
KJ	111	Commercial	Main Floor	11-AS-111-RA (Radon only)	Indoor Air	4/4/2011	0.094	J	ND	0.22	0.38		0.12	J
KJ	111	Commercial	Subslab	11-SS-111-1	Soil Gas	4/4/2011	12		ND	0.50	1.2		4.5	
KJ	111	Commercial	Subslab	11-SS-111-2	Soil Gas	4/4/2011	110		ND	0.50	1.5		5.0	
DEQ	111	Commercial	Subslab	11-SS-111-2-DEQ	Soil Gas	4/4/2011	63		ND	2.3	ND	2.3	ND	2.3
KJ	111	Commercial	Subslab	11-SS-111-3	Soil Gas	4/4/2011	21		ND	0.50	1.4		6.6	
KJ	111	Commercial	Subslab	D1-SS-111-040411 (Duplicate of 11-SS-111-3)	Soil Gas	4/4/2011	20		ND	0.50	1.1		6.6	

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	113	Residential	Living Room	11-AS-113	Indoor Air	3/30/2011	0.28		0.026	Jj	0.67		0.40	
DEQ	113	Residential	Living Room	11-AS-113-L-DEQ	Indoor Air	3/30/2011	0.31		ND	0.043	0.96		0.53	
KJ	113	Residential	Crawlspace	11-CS-113	Soil Gas	3/30/2011	1.8		ND	0.50	0.71		1.8	
KJ	113	Residential	Soil gas	11-SG-113	Soil Gas	3/30/2011	16		ND	0.50	3.8		2.1	
GSI	113	Residential	Second floor	10-AS-113-05	Indoor Air	4/1/2010	16		0.43		1.1		ND	0.8
GSI	113	Residential	Living Room	10-AS-113-L	Indoor Air	4/1/2010	2.2		0.39	j	0.83	j	ND	0.85
GSI	113	Residential	Living Room	D1-AS-3-31-10 (Dup of 10-AS-113-L)	Indoor Air	4/1/2010	2.6		ND	0.18j	1.1	j	ND	0.9
GSI	113	Residential	Crawlspace	10-CS-113-01	Indoor Air	4/1/2010	1.5		0.20		0.71		ND	0.94
GSI	113	Residential	Soil Gas (2 ft.)	10-SG-113-01	Soil Gas	3/31/2010	27		0.37		0.69		ND	0.69
DEQ	113	Residential	Soil Gas (2 ft.)	10-SG-113-01-DEQ	Soil Gas	3/31/2010	30		ND	0.82	ND	0.82	ND	0.82
KJ	113	Residential	Living Room	08-AS-113	Indoor Air	2/29/2008	1.5		0.034		0.61		1.1	
KJ	113	Residential	Crawlspace dirt floor (1 ft)	08-SG-113	Soil Gas	2/29/2008	50	j	ND	5.0	ND	25	ND	25
KJ	114	Residential	Living Room	11-AS-114-M	Indoor Air	4/4/2011	0.30		0.028	J	0.89		1.0	
KJ	114	Residential	Basement	11-AS-114-B	Indoor Air	4/4/2011	0.33		0.036	J	0.70		0.53	
DEQ	114	Residential	Basement	11-AS-114-B-DEQ	Indoor Air	4/4/2011	0.34		ND	0.036	1.2		0.85	
KJ	114	Residential	Subslab	11-SS-114-1	Soil Gas	4/4/2011	93		0.52		1.7		7.3	
DEQ	114	Residential	Subslab	11-SS-114-1-DEQ	Soil Gas	4/4/2011	57		ND	2.7	ND	2.7	4.1	
KJ	114	Residential	Subslab	11-SS-114-2	Soil Gas	4/4/2011	31		0.63		2.9		3.0	
KJ	114	Residential	Subslab	11-SS-114-3	Soil Gas	4/4/2011	93		1.4		2.6		3.7	
KJ	114	Residential	Dining room	10-AS-114-L	Indoor Air	3/22/2010	0.37	J	0.045	J	0.83	J	0.011	Jj
KJ	114	Residential	Basement	10-AS-114-B	Indoor Air	3/22/2010	2.1		0.039	J	1.9		0.94	J
				10-SS-114										
				10-SS-114-FG (fixed gases only)										
				10-SS-114-RA (Radon only)										
KJ	114	Residential	Subslab	09-AS-114L	Soil Gas	3/22/2010	89		1.0		3.6		54	
KJ	114	Residential	Dining Room	09-AS-114B	Indoor Air	3/4/2009	1.3		0.053		3.2		1.5	
				09-AS-114B										
KJ	114	Residential	Basement bedroom	09-AS-114-RI (Radon only)	Indoor Air	3/4/2009	1.0		0.038		2.5		0.98	
KJ	114	Residential	Subslab	09-SG-114	Soil Gas	3/4/2009	110		ND	5.0	200		58	
KJ	115	Commercial	Office area	10-AS-115-M	Indoor Air	3/22/2010	65		1.4		65		41	
DEQ	115	Commercial	Office area	10-AS-115-DEQ	Indoor Air	3/22/2010	100		2.5		100		56	
				10-SS-115-1										
KJ	115	Commercial	Subslab	10-SS-115-1-RA (Radon only)	Soil Gas	3/22/2010	25		0.6	J	14		74	
DEQ	115	Commercial	Subslab	10-SS-115-1-DEQ	Soil Gas	3/22/2010	42		ND	0.88	1.8		11	
				10-SS-115-2										
				10-SS-115-2-FG (fixed gases only)										
				10-SS-115-2-RA (Radon only)										
KJ	115	Commercial	Subslab	10-SS-115-3	Soil Gas	3/22/2010	ND	640	ND	640	9600		470	J
KJ	115	Commercial	Subslab	10-SS-115-3-RA (Radon only)	Soil Gas	3/22/2010	130		ND	110	920		110	
KJ	115	Commercial	Lobby	09-AS-115	Indoor Air	3/4/2009	81		0.44		100		55	
KJ	115	Commercial	Subslab	09-AS-115-RI (Radon only)	Indoor Air	3/4/2009	ND	500	ND	500	3100		880	
KJ	122	Commercial	Office area	11-AS-122	Indoor Air	3/31/2011	0.28	J	0.093	J	8.1		4.3	
DEQ	122	Commercial	Office Area	11-AS-122-DEQ	Indoor Air	3/31/2011	0.29		0.099		11		6.7	
KJ	122	Commercial	Subslab	11-SS-122-1	Soil Gas	3/31/2011	9.2		ND	1.0	24		24	
KJ	122	Commercial	Subslab	11-SS-122-2	Soil Gas	3/31/2011	30		ND	1.0	2.6		3.1	
DEQ	122	Commercial	Subslab	11-SS-122-2-DEQ	Soil Gas	3/31/2011	18		ND	2.5	3.2		ND	2.5
KJ	122	Commercial	Subslab	11-SS-122-3	Soil Gas	3/31/2011	230	j	15	j	14	j	8.1	j
				D1-SS-033111 (Duplicate of 11-SS-122-3)										
KJ	122	Commercial	Subslab	11-SS-122-3	Soil Gas	3/31/2011	380	j	8.9	j	8.2	j	4.9	j
KJ	122	Commercial	Office area	10-AS-122M	Indoor Air	3/24/2010	0.34	J	0.13	J	5.1		3.7	
				10-SS-122-1										
				10-SS-122-1-FG (fixed gases only)										
KJ	122	Commercial	Subslab	10-SS-122-1-RA (Radon only)	Soil Gas	3/24/2010	200		19		7.1		38	
				10-SS-122-2										
KJ	122	Commercial	Subslab	10-SS-122-2-RA (Radon only)	Soil Gas	3/24/2010	220		14		31		100	
				10-SS-122-3										
KJ	122	Commercial	Subslab	10-SS-122-3-RA (Radon only)	Soil Gas	3/24/2010	30		2.1		4.4		44	
				09-AS-122										
KJ	122	Commercial	Office area	09-AS-122-RI (Radon only)	Indoor Air	3/16/2009	0.55		0.20		11		5.9	
KJ	122	Commercial	Subslab	09-SG-122	Soil Gas	3/16/2009	180		14		16		ND	5.0
KJ	125	Commercial	Office area	08-AS-125M	Indoor Air	2/26/2008	0.096	J	0.018	J	0.57		0.39	
KJ	125	Commercial	Subslab	08-SG-125	Soil Gas	2/26/2008	14		ND	5.0	ND	25	ND	25
DEQ	125	Commercial	Subslab	08-SG-125DEQ	Soil Gas	2/26/2008	ND	3.4	ND	2.7	2.9		ND	2.2

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	127	Residential	Dining room	11-AS-127-M	Indoor Air	3/29/2011	2.4		ND	1.4	1.3	Jj	0.79	J
KJ	127	Residential	Basement	11-AS-127-B	Indoor Air	3/29/2011	0.58		ND	0.19	0.42		0.18	
KJ	127	Residential	Soil Gas (4 in.)	11-SG-127-1	Soil Gas	3/29/2011	7.5		ND	2.5	1.6		ND	2.5
KJ	127	Residential	Soil Gas (4 in.)	11-SG-127-2	Soil Gas	3/29/2011	38		3.6		3.2		14	
KJ	127	Residential	Soil Gas (4 in.)	11-SG-127-3	Soil Gas	3/29/2011	18		ND	1.0	1.9		7.0	
GSI	127	Residential	Living Room	10-AS-127-L	Indoor Air	3/29/2010	2.0		ND	0.21	0.73		ND	1.0
GSI	127	Residential	Basement	10-AS-127-B	Indoor Air	3/29/2010	0.61		ND	0.15	0.33		ND	0.77
GSI	127	Residential	Soil Gas (2 ft.)	10-SG-127-01	Soil Gas	3/28/2010	34		0.27		1.7		ND	0.69
GSI	127	Residential	Soil Gas (2 ft.)	10-SG-127-02	Soil Gas	3/28/2010	15		0.15		0.49		ND	0.69
GSI	127	Residential	Soil Gas (2 ft.)	10-SG-127-03	Soil Gas	3/28/2010	31		0.33		4.0		1.4	
KJ	127	Residential	Living Room	08-AS-127	Indoor Air	3/3/2008	2.8		0.035		1.9		0.46	
KJ	127	Residential	Basement dirt floor (2 ft)	08-SG-127	Soil Gas	3/3/2008	46	j	ND	5.0	ND	25	ND	25
KJ	129	Residential	Dining room	10-AS-129L	Indoor Air	3/23/2010	1.6		ND	1.0	0.52	J	0.35	J
KJ	129	Residential	Basement	10-AS-129B	Indoor Air	3/23/2010	0.13	J	ND	1.0	0.50	Jj	0.14	Jj
KJ	129	Residential	Basement	D1-AS-03-23-10 (Dup of 10-AS-129B)	Indoor Air	3/23/2010	0.16	J	ND	1.0	0.45	Jj	0.14	Jj
KJ	129	Residential	Soil Gas (2 ft.)	10-SG-129-1	Soil Gas	3/23/2010	4.2		ND	1.0	16		21	
KJ	129	Residential	Living Room	08-AS-129	Indoor Air	2/27/2008	0.14	J	0.030		0.53		0.35	
KJ	129	Residential	Basement dirt floor (2 ft)	08-SG-129	Soil Gas	2/27/2008	ND	5.0	10		ND	25	ND	25
KJ	129	Residential	Basement dirt floor (2 ft)	D1-SG-02-27-08 (Dup of 08-SG-129)	Soil Gas	2/27/2008	20		ND	5.0	ND	25	ND	25
KJ	132	Residential	Main Living Area	05-AS-132L	Indoor Air	12/12/2005	0.64		0.032					
KJ	133	Residential	Living Room	09-AS-133L	Indoor Air	2/9/2009	2.1		0.026		0.55		4.9	
KJ	133	Residential	Living Room	D1-AS-2-9-09 (Dup of 09-AS-133L)	Indoor Air	2/9/2009	2.5		0.041		0.67		5.1	
KJ	133	Residential	Basement	09-AS-133B (Radon only)	Indoor Air	2/9/2009	0.20	J	0.031	J	0.32		0.18	
KJ	133	Residential	Subslab	09-SG-133	Soil Gas	2/9/2009	95	j	ND	5.0	ND	5.0	5.8	j
KJ	133	Residential	Subslab	09-SG-133 Dup	Soil Gas	2/9/2009	12		ND	5.0	ND	5.0	ND	5.0
KJ	133	Residential	Living Room	08-AS-133L	Indoor Air	2/26/2008	0.15	J	0.026		1.1		0.26	
KJ	133	Residential	Basement	08-AS-133B	Indoor Air	2/26/2008	0.20		0.020	J	0.64		0.14	
KJ	133	Residential	Subslab	08-SG-133	Soil Gas	2/26/2008	50		ND	5.0	ND	25	ND	25
KJ	133	Residential	Subslab	D1-SG-02-26-08 (Dup of 08-SG-133)	Soil Gas	2/26/2008	30		ND	5.0	ND	25	ND	25
KJ	134	Residential	Living room	10-AS-134L	Indoor Air	3/18/2010	0.088	J	ND	1.0	0.60	J	0.28	J
KJ	134	Residential	Basement	10-AS-134B	Indoor Air	3/18/2010	0.20	J	0.028	J	0.16	J	0.049	Jj
KJ	134	Residential	Soil Gas (1.5 ft.)	10-SG-134-1-FG (fixed gases only)	Soil Gas	3/18/2010	16		0.7	J	42		17	
KJ	134	Residential	Soil Gas (1.5 ft.)	10-SG-134-2	Soil Gas	3/18/2010	8.2		0.9	J	29	j	11	
KJ	134	Residential	Soil Gas (1.5 ft.)	D1-SG-03-18-10 (Dup of 10-SG-134-2)	Soil Gas	3/18/2010	8.8		0.8	J	20	j	10	
KJ	134	Residential	Living Room	09-AS-134L	Indoor Air	2/9/2009	0.088	J	ND	0.027	0.63		0.17	
KJ	134	Residential	Basement	09-AS-134B	Indoor Air	2/9/2009	0.19	J	ND	0.025	0.17	J	0.040	J
KJ	134	Residential	Soil Gas (1.5 ft)	09-SG-134	Soil Gas	2/9/2009	20		ND	5.0	28		11	
KJ	142	Commercial	Office area in shop	11-AS-142	Indoor Air	4/5/2011	0.20	J	0.050	J	1.0		0.61	
KJ	142	Commercial	Office area in shop	D1-AS-040511 (Dup of 11-AS-142)	Indoor Air	4/5/2011	0.20	J	0.050	J	1.1		0.65	
KJ	142	Commercial	Subslab	11-SS-142-1	Soil Gas	4/5/2011	8.1		ND	0.50	45		24	
KJ	142	Commercial	Subslab	11-SS-142-2	Soil Gas	4/5/2011	5.4		0.77		17		11	
KJ	142	Commercial	Subslab	11-SS-142-3	Soil Gas	4/5/2011	4.9		ND	1.0	5.5		12	
KJ	142	Commercial	Basement	06-SG-142-RI	Indoor Air	4/5/2006								
KJ	142	Commercial	Subslab	06-SG-142-1	Soil Gas	4/5/2006	19		13		11		190	
KJ	142	Commercial	Subslab	06-SG-142-2	Soil Gas	4/6/2006	17		7.2		27		16	
KJ	142	Commercial	Subslab	06-SG-142-3	Soil Gas	4/7/2006	24		18		13		17	
KJ	142	Commercial	Main Floor	05-AS-142L	Indoor Air	12/12/2005	0.68		0.33					
KJ	142	Commercial	Basement	05-AS-142B	Indoor Air	12/12/2005	0.53		0.39					
KJ	143	Commercial	Main Floor	10-AS-143-M	Indoor Air	3/22/2010	0.027	J	ND	1.0	0.52	J	0.089	J
KJ	143	Commercial	Basement	10-AS-143-B	Indoor Air	3/22/2010	0.032	J	0.017	J	0.52	J	0.087	Jj
KJ	143	Commercial	Subslab	10-SS-143-2-FG (fixed gases only)	Soil Gas	3/22/2010	13		ND	1.0	3.8		50	
KJ	143	Commercial	Subslab	10-SS-143-2-RA (Radon only)	Soil Gas	3/22/2010								
KJ	143	Commercial	Subslab	10-SS-143-3 (Radon only)	Soil Gas	3/22/2010	7.1		ND	1.0	13		29	
KJ	143	Commercial	Soil Gas (5 ft.)	10-SG-143-1	Soil Gas	3/22/2010	64		1.5		2.0		42	
KJ	143	Commercial	Main Floor	09-AS-143L	Indoor Air	3/20/2009	0.045	J	0.025	J	1.2		0.23	
KJ	143	Commercial	Basement	09-AS-143B (Radon only)	Indoor Air	3/20/2009	0.038	J	0.026		0.80		0.20	
KJ	143	Commercial	Subslab	09-SG-143-2	Soil Gas	3/20/2009	9.0		ND	5.0	8.2		ND	5.0
KJ	143	Commercial	Soil Gas (5 ft)	09-SG-143-1	Soil Gas	3/20/2009	5.8		ND	5.0	ND	5.0	7.4	
KJ	143	Commercial	Soil Gas (5 ft)	D1-SG-03-20-09 (Dup of 09-SG-143-1)	Soil Gas	3/20/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0



**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	144	Commercial	Office	10-AS-144	Indoor Air	3/15/2010	ND	61	ND	48	ND	29	3400	
KJ	144	Commercial	Office	D1-AS-03-15-10 (Dup of 10-AS-144)	Indoor Air	3/15/2010	ND	83	ND	66	ND	39	3200	
KJ	144	Commercial	Subslab	10-SS-144-1-FG (fixed gases only)	Soil Gas	3/15/2010	2.4		0.9	J	7.8		10	
KJ	144	Commercial	Subslab	10-SS-144-2-RA (Radon only)	Soil Gas	3/15/2010	16	J	ND	30	1900		2100	
KJ	144	Commercial	Subslab	10-SS-144-3-RA (Radon only)	Soil Gas	3/15/2010	9.0		0.9	J	8.0		8.3	
KJ	144	Commercial	Office area	09-AS-144-RI (Radon only)	Indoor Air	2/26/2009	ND	4.5	ND	0.53	7.0		100	
KJ	144	Commercial	Subslab	09-SG-144	Soil Gas	2/26/2009	ND	5.0	ND	5.0	6.4		ND	5.0
KJ	144	Commercial	Subslab	D1-SG-02-26-09 (Dup of 09-SG-144)	Soil Gas	2/26/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
GSI	145	Commercial	Garage area	10-AS-145-G1	Indoor Air	3/27/2010	21		5.9		49		270	D
GSI	145	Commercial	Paint Storage room	10-AS-145-G2	Indoor Air	3/27/2010	23		3.5		43		1600	
GSI	145	Commercial	Office area	10-AS-145-L	Indoor Air	3/27/2010	26		1.0		15		150	
GSI	145	Commercial	Subslab	10-SS-145-01	Soil Gas	3/26/2010	23		0.41		18		57	
DEQ	145	Commercial	Subslab	DEQ-10-SS-145-1	Soil Gas	3/26/2010	23		ND	0.85	20		70	
GSI	145	Commercial	Subslab	10-SS-145-02	Soil Gas	3/26/2010	0.87		0.17		4.2		6.2	
GSI	145	Commercial	Subslab	10-SS-145-03	Soil Gas	3/26/2010	1.6		0.37		7.6		10	
DEQ	145	Commercial	Subslab	DEQ-10-SS-145-3	Soil Gas	3/26/2010	1.8		ND	0.77	7.8		10	
KJ	145	Commercial	Office area	09-AS-145-RI (Radon only)	Indoor Air	2/26/2009	8.8		0.30		9.6		57	
KJ	145	Commercial	Subslab	09-SG-145	Soil Gas	2/26/2009	16		ND	5.0	15		18	
KJ	148	Commercial	Office	09-AS-148-RI (Radon only)	Indoor Air	3/2/2009	0.036	J	ND	0.028	0.80		0.26	
KJ	148	Commercial	Subslab	09-SG-148	Soil Gas	3/2/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	149	Commercial	Main Floor	11-AS-149	Indoor Air	3/29/2011	ND	1.0	ND	0.79	5.6		5.9	
KJ	149	Commercial	Main Floor	09-AS-149	Indoor Air	2/24/2009	0.78	J	ND	0.53	7.6		12	
KJ	149	Commercial	Main Floor	D1-AS-02-24-09 (Dup of 09-AS-149)	Indoor Air	2/24/2009	0.97	J	ND	0.42	7.3		12	
KJ	154	Residential	Living Room	08-AS-154L	Indoor Air	2/29/2008	0.088	J	0.026	J	0.48		0.21	
KJ	154	Residential	Basement	08-AS-154B	Indoor Air	2/29/2008	0.20	J	ND	0.026	1.7		0.91	
KJ	154	Residential	Subslab	08-SG-154	Soil Gas	2/28/2008	21	j	5.6	j	ND	25	ND	25
DEQ	154	Residential	Subslab	08-SG-154DEQ	Soil Gas	2/28/2008	ND	3.4	ND	2.7	1.6		ND	2.2
KJ	154	Residential	Living Room	07-AS-154-L	Indoor Air	6/5/2007	0.24		0.030		0.78		0.55	
KJ	154	Residential	Basement	07-AS-154-B	Indoor Air	6/5/2007	0.30		0.061		1.2		0.79	
KJ	154	Residential	Subslab	07-SG-154	Soil Gas	6/5/2007	18		ND	5.0	24		32	
KJ	157	Residential	Living Room	08-AS-157L	Indoor Air	2/29/2008	0.040	J	0.029	J	0.51		0.11	J
KJ	157	Residential	Basement	08-AS-157B	Indoor Air	2/29/2008	0.45	j	0.043	j	1.2	j	1.2	j
KJ	157	Residential	Basement	D1-AS-02-29-08 (Dup of 08-AS-157B)	Indoor Air	2/29/2008	0.43	j	0.041	j	1.1	j	1.1	j
KJ	157	Residential	Subslab	08-SG-157	Soil Gas	2/29/2008	ND	5.0	ND	5.0	ND	25	ND	25
DEQ	157	Residential	Subslab	08-SG-157DEQ	Soil Gas	2/29/2008	ND	3.4	ND	2.7	2.9		3.7	
KJ	157	Residential	Subslab	D1-SG-02-29-08 (Dup of 08-SG-157)	Soil Gas	2/29/2008	5.0		ND	5.0	ND	25	ND	25
KJ	157	Residential	Living Room	05-AS-157L	Indoor Air	12/15/2005	ND	0.25	0.045					
KJ	157	Residential	Basement	05-AS-157B	Indoor Air	12/15/2005	ND	0.25	0.06					
KJ	158	Commercial	Living Room	11-AS-158-M	Indoor Air	3/31/2011	0.056	J	0.027	J	0.68		0.33	
KJ	158	Commercial	Basement	11-AS-158-B	Indoor Air	3/31/2011	0.045	J	0.016	J	0.41		0.17	
KJ	158	Commercial	Soil gas	11-SS-158-1	Soil Gas	3/31/2011	6.9		ND	0.50	4.0		3.7	
KJ	158	Commercial	Soil gas	11-SS-158-2	Soil Gas	3/31/2011	5.9		ND	0.50	4.7		5.9	
KJ	158	Commercial	Soil gas	11-SS-158-3	Soil Gas	3/31/2011	5.4		ND	1.0	1.9		2.3	
KJ	158	Commercial	Office	10-AS-158L	Indoor Air	3/19/2010	0.061	J	0.024	J	0.66	J	0.27	J
KJ	158	Commercial	Basement	10-AS-158B	Indoor Air	3/19/2010	1.5		1.6		0.66	J	0.24	J
KJ	158	Commercial	Subslab	10-SS-158-1-FG (fixed gases only)	Soil Gas	3/19/2010	3.2		ND	2.0	3.3		2.6	
KJ	158	Commercial	Subslab	10-SS-158-2-RA (Radon only)	Soil Gas	3/19/2010	3.8		ND	1.0	6.0		5.0	
KJ	158	Commercial	Subslab	10-SS-158-3-RA (Radon only)	Soil Gas	3/19/2010	3.7		ND	1.0	5.7		7.6	
KJ	158	Residential	Living Room	08-AS-158L	Indoor Air	2/29/2008	0.036	J	0.028	J	1.4		0.35	
KJ	158	Residential	Basement	08-AS-158B	Indoor Air	2/29/2008	0.054	J	0.021	J	0.77		0.22	
KJ	158	Residential	Subslab	08-SG-158	Soil Gas	2/29/2008	47	j	8.9	j	ND	25	37	j

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	161	Residential	Living room	10-AS-161L	Indoor Air	3/24/2010	0.058	J	0.018	J	1.2		8.7	
DEQ	161	Residential	Basement	DEQ-10-AS-161	Indoor Air	3/25/2010	ND	0.74	ND	0.74	1.8		4.2	
KJ	161	Residential	Basement	10-AS-161B	Indoor Air	3/24/2010	0.090	J	0.019	J	1.4		1.5	
KJ	161	Residential	Subslab	10-SS-161-1 10-SS-161-1-FG (fixed gases only) 10-SS-161-1-RA (Radon only)	Soil Gas	3/24/2010	2.2		3.1		9.1		53	
DEQ	161	Residential	Subslab	10-SS-161-1-DEQ	Soil Gas	3/24/2010	2.0		ND	0.87	3.9		6.4	
KJ	161	Residential	Subslab	10-SS-161-2-RA (Radon only)	Soil Gas	3/24/2010	5.7		0.3	J	3.6		25	
KJ	161	Residential	Subslab	10-SS-161-3-RA (Radon only)	Soil Gas	3/24/2010	2.9		ND	1.0	7.1		39	
KJ	161	Residential	Living Room	08-AS-161L	Indoor Air	2/28/2008	0.53		0.076		1.8		5.0	
KJ	161	Residential	Basement	08-AS-161B	Indoor Air	2/28/2008	1.4		0.054		0.91		2.8	
KJ	161	Residential	Subslab	08-SG-161	Soil Gas	2/28/2008	64		ND	5.0	ND	25	ND	25
KJ	164	Residential	Living room	10-AS-164L	Indoor Air	3/15/2010	0.085	J	0.027	J	0.92	J	0.32	J
KJ	164	Residential	Basement	10-AS-164B	Indoor Air	3/15/2010	0.057	J	ND	1.0	1.4		0.22	J
KJ	164	Residential	Subslab	10-SG-164-3	Soil Gas	3/15/2010	76		0.7	J	11		8.0	
KJ	164	Residential	Subslab	10-SS-164-1 10-SS-164-1-FG (fixed gases only) 10-SS-164-1-RA (Radon only)	Soil Gas	3/15/2010	5.0		ND	1.0	3.6		3.7	
KJ	164	Residential	Subslab	10-SS-164-2-RA (Radon only)	Soil Gas	3/15/2010	4.1		0.4	J	3.3		3.5	
KJ	166	Residential	Living room	10-AS-166L	Indoor Air	3/17/2010	1.4		0.069	J	3.3		2.1	
KJ	166	Residential	Basement	10-AS-166B	Indoor Air	3/17/2010	0.14	J	0.012	J	2.4		1.3	
KJ	166	Residential	Basement	D1-AS-03-17-10 (Dup of 10-AS-166B)	Indoor Air	3/17/2010	0.17	J	0.020	J	2.4		1.3	
KJ	166	Residential	Soil Gas (1.5 ft.)	10-SG-166-1-FG (fixed gases only)	Soil Gas	3/17/2010	3.1		ND	1.0	4.5		3.1	
KJ	166	Residential	Soil Gas (1.5 ft.)	10-SG-166-2	Soil Gas	3/17/2010	180		ND	1.0	4.0		2.6	
KJ	166	Residential	Living Room	08-AS-166	Indoor Air	2/27/2008	0.84		0.038		0.65		0.60	
KJ	166	Residential	Basement dirt floor (5 ft)	08-SG-166	Soil Gas	2/27/2008	140		ND	5.0	ND	25	ND	25
KJ	167	Residential	Living Room	09-AS-167L	Indoor Air	2/11/2009	0.26		0.024	J	6.6		2.2	
DEQ	167	Residential	Near Furnace in Basement	09-AS-167DEQ	Indoor Air	2/12/2009	0.29		0.029		7.1		2.7	
DEQ	167	Residential	Basement	09-AS-167B	Indoor Air	2/11/2009	0.11	J	0.021	J	10		3.6	
KJ	167	Residential	Basement	06-GF-167-1	Soil Gas	4/6/2006	7.2		ND	5.0	ND	5.0	ND	5.0
KJ	167	Residential	Basement	06-GF-167-2	Soil Gas	4/7/2006	9.8	B	ND	5.0	ND	5.0	ND	5.0
KJ	167	Residential	Living Room	05-AS-167L	Indoor Air	12/12/2005	1.9		0.12					
KJ	167	Residential	Basement	05-AS-167B	Indoor Air	12/12/2005	0.49		0.086					
KJ	168	Residential	Living Room	07-AS-168L	Indoor Air	4/3/2007	0.13	J	0.26		0.68		1.2	
KJ	168	Residential	Basement	07-AS-168B	Indoor Air	4/3/2007	0.29		0.14		0.77		3.4	
KJ	168	Residential	Basement	D1-AS-04-03-07 (Dup of 07-AS-168B)	Indoor Air	4/3/2007	ND	0.16	ND	0.020	0.10	J	0.026	J
KJ	168	Residential	Subslab	07-SG-168-1	Soil Gas	4/3/2007	5.9		ND	5.0	ND	5.0	ND	5.0
KJ	170	Commercial	Office	10-AS-170	Indoor Air	3/10/2010	0.14	J	0.056	J	5.7		6.2	
KJ	170	Commercial	Subslab	10-SS-170-1	Soil Gas	3/10/2010	47	j	ND	1.0	4.2	j	7.2	j
DEQ	170	Commercial	Subslab	DEQ-10-SS-170-1	Soil Gas	3/10/2010	58		ND	0.85	1.7		3.8	
KJ	170	Commercial	Subslab	D1-SG-03-10-10 (Dup of 10-SS-170-1)	Soil Gas	3/10/2010	16	j	ND	1.0	0.9	Jj	1.6	j
KJ	170	Commercial	Subslab	10-SS-170-2-RA (Radon only)	Soil Gas	3/10/2010	49		ND	1.0	45		18	
KJ	170	Commercial	Subslab	10-SS-170-3	Soil Gas	3/10/2010	250		ND	1.0	7.8		11	
DEQ	170	Commercial	Subslab	DEQ-10-SS-170-3	Soil Gas	3/10/2010	330		ND	0.79	1.6		4.3	
KJ	170	Commercial	Office area	09-AS-170-RI (Radon only)	Indoor Air	2/12/2009	0.37		0.047		21		10	
KJ	170	Commercial	Subslab	09-SG-170	Soil Gas	2/12/2009	34		ND	5.0	11		5.0	
KJ	170	Commercial	Subslab	09-SG-170 Dup	Soil Gas	2/12/2009	82		ND	5.0	5.9		ND	5.0
KJ	272	Residential	Living Room	09-AS-272	Indoor Air	2/27/2009	0.73		0.045		0.94		2.9	
KJ	272	Residential	Living Room	D1-AS-02-27-09 (Dup of 09-AS-272)	Indoor Air	2/27/2009	0.76		0.075		0.91		2.9	
KJ	272	Residential	Soil Gas (5 ft)	09-SG-272	Soil Gas	2/27/2009	ND	5.0	ND	5.0	5.8		ND	5.0
KJ	272	Residential	Soil Gas (5 ft)	D1-SG-02-27-09 (Dup of 09-SG-272)	Soil Gas	2/27/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	289	Residential	Living room	10-AS-289L	Indoor Air	3/16/2010	0.055	J	ND	1.0	0.38	J	0.12	Jj
KJ	289	Residential	Basement	10-AS-289B	Indoor Air	3/16/2010	0.056	J	ND	1.0	0.49	J	0.24	J
KJ	289	Residential	Subslab	10-SS-289-1 10-SS-289-1-FG (fixed gases only) 10-SS-289-1-RA (Radon only)	Soil Gas	3/16/2010	11		ND	1.0	3.2		3.2	
KJ	289	Residential	Subslab	10-SS-289-2-RA (Radon only)	Soil Gas	3/16/2010	2.0		ND	1.0	4.3		13	
KJ	289	Residential	Subslab	10-SS-289-3-RA (Radon only)	Soil Gas	3/16/2010	2.8		ND	1.0	4.4		4.6	

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	291	Residential	Kitchen	10-AS-291L	Indoor Air	3/17/2010	0.067	J	ND	1.0	1.3		0.42	J
KJ	291	Residential	Basement	10-AS-291B	Indoor Air	3/17/2010	0.047	J	ND	1.0	0.51	J	0.15	J
KJ	291	Residential	Soil Gas (5 ft.)	10-SG-291-1 10-SG-291-1-FG (fixed gases only)	Soil Gas	3/17/2010	3.0	j	0.7	J	10		5.1	
KJ	291	Residential	Soil Gas (5 ft.)	10-SG-291-2	Soil Gas	3/17/2010	170		0.6	J	3.3		3.3	
KJ	291	Residential	Soil Gas (5 ft.)	10-SG-291-3	Soil Gas	3/17/2010	17		0.6	J	6.5		6.5	
KJ	291	Residential	Living Room	07-AS-291L	Indoor Air	4/3/2007	ND	0.20	0.030		0.77		0.26	
DEQ	291	Residential	Basement	07-AS-291B-S	Indoor Air	4/3/2007	0.23		ND	0.13				
KJ	291	Residential	Basement	07-AS-291B	Indoor Air	4/3/2007	0.16	J	0.026		0.59		2.2	
DEQ	291	Residential	Basement dirt floor	07-SG-291B-1S	Soil Gas	4/3/2007	ND	6.1	ND	4.8	ND	2.9	ND	3.9
DEQ	291	Residential	Basement dirt floor (5ft.)	07-SG-291-1	Soil Gas	4/3/2007	34		ND	5.0	ND	5.0	5.7	
KJ	292	Residential	Living room	10-AS-292	Indoor Air	3/23/2010	0.062	J	0.077	J	0.50	J	0.58	J
DEQ	292	Residential	Living room	10-AS-292-DEQ	Indoor Air	3/23/2010	ND	0.97	ND	0.97	ND	0.97	ND	0.97
KJ	292	Residential	Crawlspace	10-CS-292	Soil Gas	3/23/2010	1.8	J	ND	3.0	1.8	J	1.7	J
KJ	292	Residential	Soil Gas (3 ft.)	10-SG-292-1 10-SG-292-1-FG (fixed gases only)	Soil Gas	3/23/2010	2.1	J	ND	3.0	3.2		70	
DEQ	292	Residential	Soil Gas (3 ft.)	10-SG-292-DEQ	Soil Gas	3/23/2010	ND	0.87	ND	0.87	ND	0.87	7.5	
KJ	292	Residential	Living Room	07-AS-292-L	Indoor Air	6/5/2007	0.032	J	ND	0.021	1.7		0.81	
KJ	292	Residential	Subslab	07-SG-292	Soil Gas	6/5/2007	7.9		ND	5.0	ND	5.0	6.3	
KJ	300	Commercial	Office area	09-AS-300	Indoor Air	2/12/2009	0.36		0.058		5.7		8.3	
KJ	301	Commercial	Office area	09-AS-301	Indoor Air	2/12/2009	0.041	J	0.021	J	1.5		1.1	
KJ	302	Residential	Living room	10-AS-302L	Indoor Air	3/9/2010	0.13	J	0.047	J	1.4		0.83	J
KJ	302	Residential	Basement	10-AS-302B	Indoor Air	3/9/2010	0.047	J	0.041	J	1.0		0.23	J
KJ	302	Residential	Soil Gas (3 ft.)	10-SG-302	Soil Gas	3/9/2010	1.3		0.015	Jj	2.2		2.1	
DEQ	302	Residential	Soil Gas (3 ft.)	DEQ-10-SG-302	Soil Gas	3/9/2010	ND	0.81	ND	0.81	1.1		3.3	
KJ	302	Residential	Soil Gas (3 ft.)	10-SG-302 10-SG-302-FG (fixed gases only)	Soil Gas	3/9/2010	2.6		ND	1.0	3.9		3.6	
KJ	302	Residential	Living room	09-AS-302	Indoor Air	3/5/2009	0.073	J	0.032		0.97		0.35	
KJ	302	Residential	Soil Gas (2 ft)	09-SG-302	Soil Gas	3/5/2009	ND	5.0	ND	5.0	74		96	
KJ	303	Residential	Living Room	09-AS-303 09-AS-303RI (Radon only)	Indoor Air	2/9/2009	0.061	J	0.12		2.2		0.40	
KJ	303	Residential	Subslab	09-SG-303	Soil Gas	2/9/2009	5.5		ND	5.0	ND	5.0	ND	5.0
KJ	304	Residential	Living room	10-AS-304L	Indoor Air	3/9/2010	0.29		0.027	J	0.53		0.28	
KJ	304	Residential	Basement	10-AS-304B	Indoor Air	3/9/2010	0.28		0.025	J	0.65		0.27	
DEQ	304	Residential	Basement	DEQ-10-AS-304B	Indoor Air	3/10/2010	ND	0.94	ND	0.94	ND	0.94	ND	0.94
KJ	304	Residential	Subslab	10-SS-304-1	Soil Gas	3/9/2010	4.5		0.063	J	2.8		8.5	
DEQ	304	Residential	Subslab	DEQ-10-SS-304-1	Soil Gas	3/9/2010	8.1		ND	0.85	4.7		17	
KJ	304	Residential	Subslab	10-SS-304-1-FG (fixed gases only) 10-SS-304-1-RA (Radon only)	Soil Gas	3/9/2010	7.1		ND	1.0	3.6		12	
KJ	304	Residential	Subslab	10-SS-304-2	Soil Gas	3/9/2010	1.9		0.040	J	0.99	J	2.8	
KJ	304	Residential	Subslab	10-SS-304-2-RA (Radon only)	Soil Gas	3/9/2010	2.9		ND	1.0	1.2		3.7	
KJ	304	Residential	Subslab	10-SS-304-3	Soil Gas	3/9/2010	13		0.29	J	10		23	
KJ	304	Residential	Subslab	10-SS-304-3-RA (Radon only)	Soil Gas	3/9/2010	22		0.5	J	16		40	
KJ	304	Residential	Living Room	09-AS-304L 09-AS-304B 09-AS-304RI (Radon only)	Indoor Air	2/9/2009	0.30		0.086		0.60		0.18	
KJ	304	Residential	Basement	09-AS-304RI (Radon only)	Indoor Air	2/9/2009	0.29		0.070		0.56		0.18	
KJ	304	Residential	Subslab	09-SG-304	Soil Gas	2/9/2009	8.7		ND	5.0	20		ND	5.0
KJ	307	Residential	Living Room	09-AS-307 09-AS-307-RI (Radon only)	Indoor Air	3/17/2009	0.084	J	0.028		3.1		0.37	
KJ	307	Residential	Subslab	09-SG-307	Soil Gas	3/17/2009	ND	5.0	ND	5.0	7.5		ND	5.0
KJ	308	Residential	Living Room	09-AS-308L 09-AS-308B	Indoor Air	3/4/2009	0.10	J	0.057		0.81		0.16	
KJ	308	Residential	Basement	09-AS-308B-RI (Radon only)	Indoor Air	3/4/2009	0.11	J	0.040		0.77		0.19	
KJ	308	Residential	Subslab	09-SG-308	Soil Gas	3/4/2009	ND	5.0	ND	5.0	6.5		ND	5.0
KJ	308	Residential	Subslab	D1-SG-03-04-09 (Dup of 09-SG-308)	Soil Gas	3/4/2009	ND	5.0	ND	5.0	5.4		ND	5.0
KJ	309	Residential	Bedroom	10-AS-309L	Indoor Air	3/10/2010	0.24	J	0.59	J	2.3		2.8	
KJ	309	Residential	Basement	10-AS-309B	Indoor Air	3/10/2010	0.26	J	0.020	J	1.3		1.8	
KJ	309	Residential	Basement	D1-AS-03-10-10 (Dup of 10-AS-309B)	Indoor Air	3/10/2010	0.48	J	0.15	J	1.6		2.0	
KJ	309	Residential	Subslab	10-SS-309-1-FG (fixed gases only) 10-SS-309-1-RA (Radon only)	Soil Gas	3/10/2010	1.4		ND	1.0	1.7		1.4	
KJ	309	Residential	Subslab	10-SS-309-2 10-SS-309-2-RA (Radon only)	Soil Gas	3/10/2010	9.7		ND	1.0	6.0		8.1	
KJ	309	Residential	Subslab	10-SS-309-3 10-SS-309-3-RA (Radon only)	Soil Gas	3/10/2010	8.7		ND	1.0	3.6		5.4	
KJ	309	Residential	Bedroom	09-AS-309L	Indoor Air	2/24/2009	0.34		ND	0.027	2.9		2.1	
KJ	309	Residential	Basement	09-AS-309B 09-AS-309-RI (Radon only)	Indoor Air	2/24/2009	0.38		ND	0.026	0.50		1.9	
KJ	309	Residential	Subslab	09-SG-309	Soil Gas	2/24/2009	7.5		ND	5.0	9.0		ND	5.0
KJ	309	Residential	Subslab	D1-SG-02-24-09 (Dup of 09-SG-309)	Soil Gas	2/24/2009	6.3		ND	5.0	6.4		ND	5.0

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	312	Residential	Living room	10-AS-312L	Indoor Air	3/18/2010	0.11	J	0.044	J	0.64	J	0.68	J
KJ	312	Residential	Basement	10-AS-312B	Indoor Air	3/18/2010	0.60	J	ND	1.0	0.56	J	0.14	Jj
KJ	312	Residential	Soil Gas (3 ft.)	10-SG-312	Soil Gas	3/18/2010	<b>4.2</b>		ND	1.0	<b>6.4</b>		<b>1.6</b>	
KJ	312	Residential	Dining Room	09-AS-312	Indoor Air	3/17/2009	0.11	J	<b>0.11</b>		<b>0.87</b>		<b>0.66</b>	
KJ	312	Residential	Soil Gas (2.5 ft.)	09-SG-312	Soil Gas	3/17/2009	<b>6.4</b>		ND	5.0	<b>6.8</b>		<b>5.8</b>	
KJ	312	Residential	Soil Gas (2.5 ft.)	D1-SG-03-17-09 (dup of 09-SG-312)	Soil Gas	3/17/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	314	Residential	Living room	10-AS-314L	Indoor Air	3/9/2010	0.071	J	0.020	J	<b>8.5</b>		<b>0.50</b>	
KJ	314	Residential	Basement	10-AS-314B	Indoor Air	3/9/2010	0.11	J	0.10	J	<b>0.74</b>		<b>0.20</b>	
KJ	314	Residential	Soil Gas (2 ft.)	10-SG-314-1	Soil Gas	3/9/2010	0.53	J	0.022	Jj	<b>1.2</b>		<b>1.3</b>	
DEQ	314	Residential	Soil Gas (2 ft.)	DEQ-10-SG-314-1	Soil Gas	3/9/2010	<b>3.1</b>		ND	0.85	<b>6.7</b>		<b>5.7</b>	
KJ	314	Residential	Soil Gas (2 ft.)	10-SG-314-1-FG (fixed gases only)	Soil Gas	3/9/2010	<b>1.2</b>		ND	1.0	<b>1.8</b>		<b>1.8</b>	
KJ	314	Residential	Soil Gas (4.5 ft.)	10-SG-314-2	Soil Gas	3/9/2010	<b>4.1</b>		ND	1.0	<b>2.0</b>		<b>2.9</b>	
KJ	314	Residential	Soil Gas (4.5 ft.)	D1-SG-03-09-10 (Dup of 10-SG-314-2)	Soil Gas	3/9/2010	<b>4.2</b>		0.3	J	<b>2.1</b>		<b>3.3</b>	
KJ	314	Residential	Soil Gas (4.5 ft.)	D1-SG-03-09-10 (Dup of 10-SG-314-2)	Soil Gas	3/9/2010	<b>2.1</b>		0.020	Jj	<b>1.2</b>		<b>2.0</b>	
KJ	314	Residential	Soil Gas (4.5 ft.)	10-SG-314-2	Soil Gas	3/9/2010	<b>2.0</b>		0.016	Jj	<b>1.1</b>		<b>1.7</b>	
KJ	314	Residential	Living Room	09-AS-314	Indoor Air	2/9/2009	0.049	J	<b>0.094</b>		<b>2.3</b>		<b>0.62</b>	
KJ	314	Residential	Soil Gas (2 ft.)	09-SG-314	Soil Gas	2/9/2009	<b>7.3</b>		ND	5.0	<b>15</b>		<b>38</b>	
KJ	315	Residential	Living room	10-AS-315L	Indoor Air	3/23/2010	0.34	J	0.13	J	0.75	J	0.64	J
KJ	315	Residential	Basement	10-AS-315B	Indoor Air	3/23/2010	<b>2.3</b>		0.14	J	0.62	J	0.71	J
KJ	315	Residential	Subslab	10-SS-315-1-FG (fixed gases only) 10-SS-315-1-RA (Radon only)	Soil Gas	3/23/2010	<b>3.8</b>		ND	1.0	<b>2.8</b>	j	<b>33</b>	j
KJ	315	Residential	Subslab	D1-SS-03-23-10 (Dup of 10-SS-315-1)	Soil Gas	3/23/2010	<b>3.8</b>		ND	1.0	<b>5.7</b>	j	<b>17</b>	j
KJ	315	Residential	Living Room	09-AS-315L 09-AS-315RI (Radon only)	Indoor Air	2/10/2009	<b>0.42</b>		<b>0.13</b>		<b>1.3</b>		<b>7.4</b>	
KJ	315	Residential	Living Room	D1-AS-2-10-09 (Dup of 09-AS-315L)	Indoor Air	2/10/2009	<b>0.29</b>		<b>0.094</b>		<b>1.2</b>		<b>7.1</b>	
KJ	315	Residential	Subslab	09-SG-315	Soil Gas	2/10/2009	<b>19</b>		ND	5.0	ND	5.0	ND	5.0
DEQ	319	Residential	Living Room	07-As-319L-S	Indoor Air	4/3/2007	<b>0.45</b>		ND	0.13				
KJ	319	Residential	Living Room	07-AS-319	Indoor Air	4/3/2007	<b>0.28</b>		<b>0.030</b>		<b>1.2</b>		<b>4.1</b>	
DEQ	319	Residential	Other (mobile)	07-SG-319-1S	Soil Gas	4/3/2007	ND	6.78	ND	5.37	ND	3.19	ND	4.34
KJ	319	Residential	Other (mobile)	07-SG-319-1	Soil Gas	4/3/2007	<b>23</b>		ND	5.0	ND	5.0	<b>6.8</b>	
KJ	510	Residential	Kitchen	11-AS-510	Indoor Air	3/31/2011	0.11	J	0.024	J	0.35	J	0.17	J
KJ	510	Residential	Crawlspace	11-CS-510	Soil Gas	3/31/2011	<b>1.9</b>		ND	1.0	<b>0.71</b>		<b>2.2</b>	
KJ	510	Residential	Soil Gas (3 ft.)	11-SG-510	Soil Gas	4/1/2011	<b>59</b>		ND	1.0	<b>1.2</b>		<b>1.9</b>	
KJ	510	Residential	Living room	10-AS-510	Indoor Air	3/18/2010	0.19	J	0.75	J	0.60	J	<b>1.6</b>	
KJ	510	Residential	Crawlspace	10-CS-510	Soil Gas	3/18/2010	<b>68</b>		ND	1.0	<b>1.4</b>		<b>3.1</b>	
KJ	510	Residential	Soil Gas (3.5 ft.)	10-SG-510-FG (fixed gases only)	Soil Gas	3/18/2010	<b>220</b>		<b>2.6</b>		<b>9.7</b>		<b>2.3</b>	
KJ	514	Residential	Living room	10-AS-514	Indoor Air	3/16/2010	0.043	J	ND	1.0	0.41	J	0.18	J
KJ	514	Residential	Crawlspace	10-CS-514	Soil Gas	3/16/2010	<b>1.7</b>		ND	1.0	<b>2.5</b>		<b>5.2</b>	
KJ	514	Residential	Soil Gas (2 ft.)	10-SG-514-FG (fixed gases only)	Soil Gas	3/16/2010	<b>6.4</b>		ND	1.0	<b>3.9</b>		<b>4.5</b>	
KJ	514	Residential	Living Room	08-AS-514	Indoor Air	2/28/2008	0.047	J	0.012	J	<b>0.65</b>		<b>0.17</b>	
KJ	514	Residential	Crawlspace dirt floor (3 ft)	08-SG-514	Soil Gas	2/28/2008	<b>23</b>	j	ND	5.0	ND	25	ND	25
DEQ	514	Residential	Crawlspace dirt floor (3 ft)	08-SG-514DEQ	Soil Gas	2/28/2008	ND	3.4	ND	2.7	<b>2.7</b>		<b>3.1</b>	
KJ	520	Residential	Living Room	09-AS-520	Indoor Air	3/2/2009	<b>0.44</b>		<b>0.048</b>		<b>10</b>		<b>29</b>	
KJ	520	Residential	Living Room Other (crawlspace)	D1-AS-03-02-09 (Dup of 09-AS-520)	Indoor Air	3/2/2009	0.41	J	0.048	J	<b>14</b>		<b>37</b>	
KJ	520	Residential	Living Room	09-SG-520	Soil Gas	3/2/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	521	Residential	Living Room	09-AS-521	Indoor Air	2/9/2009	0.12	J	ND	0.027	<b>0.62</b>		<b>0.21</b>	
KJ	521	Residential	Other (mobile)	09-SG-521	Soil Gas	2/9/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	528	Residential	Living Room	09-AS-528	Indoor Air	2/25/2009	<b>0.52</b>		<b>0.045</b>		<b>0.96</b>		<b>0.14</b>	
KJ	528	Residential	Other (mobile)	09-SG-528	Soil Gas	2/25/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	530	Residential	Bedroom	09-AS-530	Indoor Air	2/23/2009	0.065	J	ND	0.029	<b>0.36</b>		0.11	J
KJ	530	Residential	Other (mobile)	09-SG-530	Soil Gas	2/23/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	531	Residential	Living Room	09-AS-531	Indoor Air	3/17/2009	0.11	J	<b>0.083</b>		<b>17</b>		<b>14</b>	
DEQ	531	Residential	Living Room	09-AS-531-DEQ	Indoor Air	3/17/2009	<b>0.15</b>		<b>0.029</b>		<b>20</b>		<b>18</b>	
KJ	531	Residential	Other (mobile)	09-SG-531	Soil Gas	3/17/2009	ND	5.0	ND	5.0	<b>6.8</b>		ND	5.0
KJ	538	Residential	Living Area	09-AS-538	Indoor Air	2/11/2009	<b>0.26</b>		0.020	J	<b>0.89</b>		<b>0.28</b>	
KJ	538	Residential	Other (mobile)	09-SG-538	Soil Gas	2/11/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	539	Residential	Den	09-AS-539	Indoor Air	2/26/2009	0.068	J	<b>0.036</b>		<b>2.1</b>		<b>0.73</b>	
KJ	539	Residential	Other (mobile)	09-SG-539	Soil Gas	2/26/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	541	Residential	Living Room	09-AS-541	Indoor Air	2/10/2009	0.045	J	ND	0.026	<b>0.81</b>		<b>0.16</b>	
KJ	541	Residential	Other (mobile)	09-SG-541	Soil Gas	2/10/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	541	Residential	Living Room	08-AS-541L	Indoor Air	2/28/2008	<b>0.81</b>		<b>0.062</b>		<b>1.5</b>		<b>2.4</b>	
DEQ	541	Residential	Living Room	08-AS-541LDEQ	Indoor Air	2/28/2008	<b>1.1</b>		ND	0.13	<b>1.7</b>		<b>3.7</b>	
KJ	541	Residential	Other	08-SG-541	Soil Gas	2/28/2008	<b>5.6</b>		ND	5.0	ND	25	ND	25



**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	543	Residential	Northwestern room	10-AS-543L	Indoor Air	3/10/2010	0.14	J	0.050	J	1.2		3.1	
				10-SS-543-1										
KJ	543	Residential	Subslab	10-SS-543-1-FG (fixed gases only)	Soil Gas	3/10/2010	7.9		ND	1.0	4.3		6.3	
				10-SS-543-2										
KJ	543	Residential	Subslab	10-SS-543-2-RA (Radon only)	Soil Gas	3/10/2010	4.5		ND	1.0	2.5		5.0	
				10-SS-543-3										
KJ	543	Residential	Subslab	10-SS-543-3-RA (Radon only)	Soil Gas	3/10/2010	16		ND	1.0	10		13	
				09-AS-543										
KJ	543	Residential	Bedroom	09-AS-543-RI (Radon only)	Indoor Air	2/24/2009	0.086	J	0.036		0.74		2.7	
KJ	543	Residential	Subslab	09-SG-543	Soil Gas	2/24/2009	8.2		ND	5.0	ND	5.0	ND	5.0
KJ	552	Residential	Living Room	09-AS-552	Indoor Air	2/24/2009	0.32		0.12		0.81		0.66	
KJ	552	Residential	Other (mobile)	09-SG-552	Soil Gas	2/24/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	554	Residential	Living Room	09-AS-554	Indoor Air	2/11/2009	0.16	J	0.36		7.9		3.0	
KJ	555	Residential	Living Room	09-AS-555L	Indoor Air	2/23/2009	0.048	J	ND	0.028	0.58		0.14	J
				09-AS-555B										
KJ	555	Residential	Basement bedroom	09-AS-555-RI (Radon only)	Indoor Air	2/23/2009	0.053	J	ND	0.022	0.43		0.11	J
KJ	555	Residential	Subslab	09-SG-555	Soil Gas	2/23/2009	9.6		ND	5.0	14		ND	5.0
				D1-SG-02-23-09 (Dup of 09-SG-555)										
KJ	555	Residential	Subslab	09-SG-555	Soil Gas	2/23/2009	11		ND	5.0	12		ND	5.0
KJ	556	Residential	Living area	09-AS-556	Indoor Air	2/23/2009	0.16	J	0.044		0.43		0.22	
KJ	557	Residential	Living area	10-AS-557L	Indoor Air	3/15/2010	ND	19	ND	15	1.8	J	ND	12
KJ	557	Residential	Basement bedroom	10-AS-557B	Indoor Air	3/15/2010	ND	15	ND	12	2.0	J	ND	9.8
				10-SS-557										
				10-SS-557-FG (fixed gases only)										
KJ	557	Residential	Subslab	10-SS-557-RA (Radon only)	Soil Gas	3/15/2010	8.3		3.9	j	4.0	j	5.2	j
				D1-SS-03-15-10 (Dup of 10-SS-557)										
KJ	557	Residential	Subslab	10-SS-557	Soil Gas	3/15/2010	8.2		2.6	j	2.7	j	3.5	j
KJ	557	Residential	Living Room	09-AS-557L	Indoor Air	2/23/2009	0.10	J	ND	0.025	0.94		0.38	
				09-AS-557B										
KJ	557	Residential	Basement bedroom	09-AS-557-RI (Radon only)	Indoor Air	2/23/2009	0.11	J	ND	0.027	0.98		0.39	
KJ	557	Residential	Subslab	09-SG-557	Soil Gas	2/23/2009	15		14		13		ND	5.0
KJ	571	Residential	Living room	10-AS-571L	Indoor Air	3/23/2010	0.12	J	0.13	J	1.4		0.83	J
KJ	571	Residential	Basement	10-AS-571B	Indoor Air	3/23/2010	0.054	J	ND	1.0	13		9.0	
				10-SS-571-1										
				10-SS-571-1-FG (fixed gases only)										
KJ	571	Residential	Subslab	10-SS-571-1-RA (Radon only)	Soil Gas	3/23/2010	7.4		ND	1.0	4.0		33	
				10-SS-571-2										
KJ	571	Residential	Subslab	10-SS-571-2-RA (Radon only)	Soil Gas	3/23/2010	5.2		ND	1.0	5.3		24	
				10-SS-571-3										
KJ	571	Residential	Subslab	10-SS-571-3-RA (Radon only)	Soil Gas	3/23/2010	2.7		ND	1.0	13		33	
KJ	582	Residential	Living room	10-AS-582L	Indoor Air	3/19/2010	0.065	J	0.014	J	1.1		0.78	J
KJ	582	Residential	Basement	10-AS-582B	Indoor Air	3/19/2010	0.20	J	0.015	J	0.42	J	0.088	Jj
				10-SG-582										
KJ	582	Residential	Soil Gas (2 ft.)	10-SG-582-FG (fixed gases only)	Soil Gas	3/19/2010	3.3		0.8	J	12		10	
DEQ	582	Residential	Soil Gas (2 ft.)	DEQ-10-SG-582	Soil Gas	3/19/2010	1.4		ND	0.83	5.2		4.5	
KJ	582	Residential	Living Room	09-AS-582	Indoor Air	3/18/2009	0.061	J	0.028		1.3		0.57	
KJ	582	Residential	Soil Gas (2 ft)	09-SG-582	Soil Gas	3/18/2009	140		ND	5.0	5.8		ND	5.0
KJ	583	Residential	Living Room	09-AS-583L	Indoor Air	3/16/2009	0.10	J	ND	0.064	1.3		0.49	
				09-AS-583B										
KJ	583	Residential	Basement	09-AS-583-RI (Radon only)	Indoor Air	3/16/2009	0.053	J	ND	0.024	0.75		0.37	
DEQ	583	Residential	Basement	09-AS-583B-DEQ	Indoor Air	3/17/2009	0.070		0.019		1.1		0.72	
KJ	583	Residential	Subslab	09-SG-583	Soil Gas	3/16/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
DEQ	583	Residential	Subslab	09-SG-583-DEQ	Soil Gas	3/16/2009	4.6		ND	2.6	ND	2.6	ND	2.6
KJ	584	Residential	Living Room	09-AS-584L	Indoor Air	3/16/2009	0.15	J	ND	0.030	0.72		0.23	
KJ	584	Residential	Basement Other (crawl space)	09-AS-584B	Indoor Air	3/16/2009	0.054	J	0.020	J	0.53		0.15	
KJ	584	Residential	Other (crawl space)	09-SG-584	Soil Gas	3/16/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	585	Residential	Living Room	10-AS-585-L	Indoor Air	3/23/2010	0.065	J	0.016	J	1.9		0.49	J
KJ	585	Residential	Basement	10-AS-585-B	Indoor Air	3/23/2010	0.074	J	0.044	J	0.54		0.13	Jj
				10-SS-585-1										
				10-SS-585-1-FG (fixed gases only)										
KJ	585	Residential	Subslab	10-SS-585-1-RA (Radon only)	Soil Gas	3/23/2010	5.5		ND	1.0	21		67	
				10-SS-585-2										
KJ	585	Residential	Subslab	10-SS-585-2-RA (Radon only)	Soil Gas	3/23/2010	13		ND	1.0	17		28	
DEQ	585	Residential	Subslab	10-SS-585-DEQ	Soil Gas	3/23/2010	5.8		ND	0.82	6.9		10	
				09-AS-585										
KJ	585	Residential	Living Room	09-AS-585-RI (Radon only)	Indoor Air	3/19/2009	1.6		ND	0.63	12		36	
KJ	585	Residential	Living Room	D1-AS-03-19-09 (Dup of 09-AS-585)	Indoor Air	3/19/2009	1.6		0.12	B	13		37	
KJ	585	Residential	Subslab	09-SG-585	Soil Gas	3/19/2009	7.3		ND	5.0	7.2		ND	5.0

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	588	Residential	Living room	10-AS-588L	Indoor Air	3/19/2010	0.073	J	ND	1.0	0.49	J	1.0	
KJ	588	Residential	Basement	10-AS-588B	Indoor Air	3/19/2010	0.070	J	ND	1.0	0.46	J	2.3	
KJ	588	Residential	Subslab	10-SS-588-FG (fixed gases only) 10-SS-588-RA (Radon only)	Soil Gas	3/19/2010	4.2		ND	1.0	4.8		26	
DEQ	588	Residential	Subslab	DEQ-10-SS-588	Soil Gas	3/19/2010	3.2		ND	0.93	2.6		19	
KJ	588	Residential	Living Room	09-AS-588	Indoor Air	2/13/2009	0.052	J	0.037		0.80		1.4	
KJ	588	Residential	Subslab	09-SG-588	Soil Gas	2/13/2009	64		ND	5.0	5.6		6.1	
KJ	589	Residential	Living Room	09-AS-589	Indoor Air	3/5/2009	0.049	J	0.026		0.69		0.12	J
KJ	589	Residential	Other (mobile)	09-SG-589	Soil Gas	3/5/2009	5.5		ND	5.0	ND	5.0	ND	5.0
KJ	591	Residential	Living Room	09-AS-591	Indoor Air	3/16/2009	0.068	J	ND	0.046	1.1		0.17	J
KJ	591	Residential	Other (mobile)	09-SG-591	Soil Gas	3/16/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	701	Residential	Living Room	09-AS-701	Indoor Air	3/3/2009	0.30	J	ND	0.068	11		28	
KJ	701	Residential	Living Room	D1-AS-03-03-09 (Dup of 09-AS-701)	Indoor Air	3/3/2009	0.32		0.039		13		31	
KJ	701	Residential	Subslab	09-SG-701	Soil Gas	3/3/2009	5.1		ND	5.0	9.3		ND	5.0
KJ	702	Residential	Dining Room	09-AS-702	Indoor Air	2/12/2009	0.14	J	0.057		2.9		0.62	
KJ	702	Residential	Soil Gas (1.5 ft)	09-SG-702	Soil Gas	2/12/2009	ND	5.0	ND	5.0	8.6		ND	5.0
DEQ	702	Residential	Soil Gas (1.5 ft)	09-SG-702DEQ	Soil Gas	2/12/2009	ND	3.1	ND	3.1	5.4		ND	3.1
KJ	705	Residential	Bedroom	09-AS-705	Indoor Air	3/4/2009	0.24	J	ND	0.040	11		23	
KJ	705	Residential	Bedroom	D1-AS-03-04-09 (Dup of 09-AS-705)	Indoor Air	3/4/2009	0.34		0.044		14		26	
KJ	705	Residential	Other (crawlspc)	09-SG-705	Soil Gas	3/4/2009	5.7		ND	5.0	47		7.2	
KJ	708	Residential	Kitchen	09-AS-708	Indoor Air	3/16/2009	0.17	J	ND	0.25	1.7	J	0.27	J
KJ	708	Residential	Subslab	09-SG-708	Soil Gas	3/16/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	709	Residential	Bedroom	09-AS-709	Indoor Air	3/5/2009	0.044	J	0.15		0.96		0.68	
KJ	709	Residential	Subslab	09-SG-709	Soil Gas	3/5/2009	ND	5.0	ND	5.0	21		5.3	
KJ	710	Residential	Living area	11-AS-710-M	Indoor Air	4/5/2011	0.11	J	0.026	J	0.58		0.97	
KJ	710	Residential	Basement	11-AS-710-B	Indoor Air	4/5/2011	0.052	J	ND	0.15	0.35		0.75	
KJ	710	Residential	Subslab	11-SS-710-1	Soil Gas	4/5/2011	4.5		ND	0.50	1.0		4.5	
KJ	710	Residential	Subslab	11-SS-710-2	Soil Gas	4/5/2011	6.4		ND	0.50	1.5		3.4	
KJ	710	Residential	Subslab	11-SS-710-3	Soil Gas	4/5/2011	5.4		ND	0.50	1.8		2.9	
KJ	710	Residential	Living area	09-AS-710	Indoor Air	2/13/2009	0.24	J	0.058		1.4		6.9	
KJ	710	Residential	Living area	D1-AS-02-13-08 (Dup of 09-AS-710)	Indoor Air	2/13/2009	0.21	J	0.050		1.5		6.0	
KJ	710	Residential	Subslab	09-SG-710	Soil Gas	2/13/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	710	Residential	Subslab	09-SG-710 Dup	Soil Gas	2/13/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	712	Residential	Kitchen/Living Room	09-AS-712	Indoor Air	3/19/2009	0.18	J	0.021	J	0.82		0.58	
DEQ	712	Residential	Kitchen/Living Room	09-AS-712-DEQ	Indoor Air	3/19/2009	0.21		0.018		0.78		0.75	
KJ	712	Residential	Subslab	09-SG-712	Soil Gas	3/19/2009	5.2		ND	5.0	11		5.4	
KJ	713	Residential	Office	11-AS-713-M	Indoor Air	4/6/2011	0.32		0.26		0.88		0.56	
KJ	713	Residential	Basement	11-AS-713-B	Indoor Air	4/6/2011	1.0		0.084	J	0.57		0.80	
KJ	713	Residential	Subslab	11-SS-713-1	Soil Gas	4/6/2011	7.1		ND	1.0	2.2		2.6	
KJ	713	Residential	Subslab	11-SS-713-2	Soil Gas	4/6/2011	ND	4.7	ND	5.0	3.8		20	
KJ	713	Residential	Subslab	11-SS-713-3	Soil Gas	4/6/2011	4.3		1.3		2.1		4.5	
KJ	713	Residential	Bedroom	09-AS-713L	Indoor Air	3/3/2009	2.1		ND	0.027	0.83		0.36	
KJ	713	Residential	Basement	09-AS-713B	Indoor Air	3/3/2009	0.94		ND	0.026	0.74		0.70	
KJ	713	Residential	Subslab	09-SG-713	Soil Gas	3/3/2009	7.2		ND	5.0	ND	5.0	ND	5.0
KJ	715	Residential	Living Room	09-AS-715L	Indoor Air	3/4/2009	0.14	J	0.071		1.3		0.84	
KJ	715	Residential	Basement	09-AS-715B	Indoor Air	3/4/2009	0.061	J	ND	0.024	0.94		0.30	
KJ	715	Residential	Subslab	09-SG-715	Soil Gas	3/4/2009	ND	5.0	ND	5.0	7.5		ND	5.0
KJ	722	Residential	Kitchen	09-AS-722	Indoor Air	3/4/2009	0.57		0.087		0.70		0.23	
DEQ	722	Residential	Kitchen	09-AS-722DEQ	Indoor Air	3/4/2009	0.073		0.093		1.1		0.38	
KJ	722	Residential	Other (crawlspc)	09-SG-722	Soil Gas	3/4/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
DEQ	722	Residential	Other (crawlspc)	09-SG-722DEQ	Soil Gas	3/4/2009	ND	2.1	ND	2.1	ND	2.1	ND	2.1
KJ	723	Residential	Dining room	10-AS-723L	Indoor Air	3/12/2010	0.056	J	ND	1.0	0.38	J	0.13	J
KJ	723	Residential	Basement	10-AS-723B	Indoor Air	3/12/2010	0.045	J	ND	1.0	0.41	J	0.089	J
KJ	723	Residential	Subslab	10-SS-723-1 (Radon only)	Soil Gas	3/12/2010	1.6	j	ND	1.0j	4.4	j	4.6	j
KJ	723	Residential	Subslab	10-SS-723-2 (Radon only)	Soil Gas	3/12/2010	0.9	J	ND	1.0	1.8		2.3	
KJ	723	Residential	Subslab	10-SS-723-3 (fixed gases only)	Soil Gas	3/12/2010	1.0	Jj	ND	1.0j	1.5	j	2.1	j

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	724	Residential	Living area	10-AS-724L	Indoor Air	3/25/2010	0.028	J	0.013	J	0.39	J	0.14	J
KJ	724	Residential	Basement	10-AS-724B	Indoor Air	3/25/2010	0.027	J	ND	1.0	0.39	J	0.092	J
				10-SS-724-1										
KJ	724	Residential	Subslab	10-SS-724-1-FG (fixed gases only)	Soil Gas	3/25/2010	2.9		0.4	J	3.4		33	
				10-SS-724-1-RA (Radon only)										
KJ	724	Residential	Subslab	10-SS-724-2	Soil Gas	3/25/2010	7.6		1.4		3.4		55	
				10-SS-724-2-RA (Radon only)										
KJ	724	Residential	Subslab	10-SS-724-3	Soil Gas	3/25/2010	4.3		ND	1.0	4.9		35	
				10-SS-724-3-RA (Radon only)										
KJ	724	Residential	Living Room	09-AS-724	Indoor Air	3/17/2009	0.031	J	0.021	J	0.62		0.17	
DEQ	724	Residential	Living Room	09-AS-724-DEQ	Indoor Air	3/17/2009	ND	0.046	0.030		0.76		0.28	
KJ	724	Residential	Subslab	09-SG-724	Soil Gas	3/17/2009	10		ND	5.0	ND	5.0	ND	5.0
DEQ	724	Residential	Subslab	09-SG-724-DEQ	Soil Gas	3/17/2009	38		ND	3.0	ND	3.0	ND	3.0
KJ	733	Residential	Living room	10-AS-733	Indoor Air	3/18/2010	0.096	J	ND	1.0	2.8		0.48	J
KJ	733	Residential	Living room	D1-AS-03-18-10 (Dup of 10-AS-733)	Indoor Air	3/18/2010	0.064	J	0.022	J	2.7		0.53	J
KJ	733	Residential	Crawlspace	10-CS-733	Soil Gas	3/18/2010	4.8		ND	2.0	1.3	J	6.9	
				10-SG-733										
KJ	733	Residential	Soil Gas (2 ft.)	10-SG-733-FG (fixed gases only)	Soil Gas	3/18/2010	ND	1.0	ND	1.0	2.2		0.4	J
KJ	733	Residential	Dining Room	09-AS-733	Indoor Air	3/20/2009	1.4		1.5		7.2		29	
KJ	733	Residential	Dining Room	D1-AS-03-20-09 (Dup of 09-AS-733)	Indoor Air	3/20/2009	1.4		0.13		6.6		29	
KJ	733	Residential	Other (crawlspace)	09-SG-733	Soil Gas	3/20/2009	20		ND	5.0	10		ND	5.0
KJ	733	Residential	Other (crawlspace)	D2-SG-03-20-09 (Dup of 09-SG-733)	Soil Gas	3/20/2009	ND	5.0	ND	5.0	5.7		ND	5.0
KJ	734	Residential	Living Room	09-AS-734L	Indoor Air	2/25/2009	0.074	J	0.027	J	0.73		0.69	
KJ	734	Residential	Living Room	09-AS-734L	Indoor Air	6/24/2009	0.12	J	ND	0.030	0.62		0.41	
KJ	734	Residential	Living Room	09-AS-734L-2	Indoor Air	4/15/2009	0.066	J	0.023	J	0.80		7.7	
KJ	734	Residential	Basement	09-AS-734B	Indoor Air	6/24/2009	0.11	J	0.049		0.88		2.1	
				09-AS-734B										
KJ	734	Residential	Basement	09-AS-734-RI (Radon only)	Indoor Air	2/25/2009	0.054	J	0.022	J	0.91		0.83	
				09-AS-734B-2										
KJ	734	Residential	Basement	09-AS-734B-RI-2 (Radon only)	Indoor Air	4/15/2009	0.048	J	0.028	J	1.1		34	
KJ	734	Residential	Subslab	09-SG-734	Soil Gas	2/25/2009	5.5		ND	5.0	9.1		ND	5.0
KJ	734	Residential	Subslab	09-SG-734-2	Soil Gas	4/15/2009	22		ND	5.0	6.5		16	
KJ	735	Residential	Living Room	09-AS-735L	Indoor Air	2/13/2009	0.074	J	0.065		3.3		2.4	
				09-AS-735B										
KJ	735	Residential	Basement	09-AS-735-RI (Radon only)	Indoor Air	2/13/2009	0.091	J	0.048		1.8		2.4	
KJ	735	Residential	Subslab	09-SG-735	Soil Gas	2/13/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	1306	Residential	Living Room	08-AS-1306L	Indoor Air	2/26/2008	0.14	J	0.039		1.6		0.62	
KJ	1306	Residential	Crawlspace dirt floor (4.5 ft)	08-SG-1306	Soil Gas	2/26/2008	40		17		ND	25	29	
KJ	1308	Residential	Living area	10-AS-1308L	Indoor Air	3/16/2010	0.44		0.076		0.62		1.2	
KJ	1308	Residential	Basement	10-AS-1308B	Indoor Air	3/16/2010	0.11	J	0.29		1.5		6.0	
				10-SS-1308										
				10-SS-1308-FG (fixed gases only)										
KJ	1308	Residential	Subslab	10-SS-1308-RA (Radon only)	Soil Gas	3/16/2010	4.2	j	0.7	Jj	5.3	j	8.4	j
				D1-SS-03-16-10 (Dup of 10-SS-1308)										
KJ	1308	Residential	Subslab	10-SS-1308	Soil Gas	3/16/2010	11	j	1.7	j	2.8	j	3.8	j
KJ	1308	Residential	Living Room	08-AS-1308L	Indoor Air	3/3/2008	0.065	J	0.076		1.2		1.3	
KJ	1308	Residential	Basement	08-AS-1308B	Indoor Air	3/3/2008	0.13	J	0.37		1.7		6.6	
DEQ	1308	Residential	Subslab	08-SG-1308-S	Soil Gas	3/3/2008	ND	7.0	ND	5.6	4.6		ND	4.5
KJ	1308	Residential	Subslab	08-SG-1308	Soil Gas	3/3/2008	7.2	J	ND	5.0	ND	25	ND	25
KJ	2012	Residential	Office	10-AS-2012L	Indoor Air	3/12/2010	0.047	J	ND	1.0	0.44	J	0.50	J
KJ	2012	Residential	Basement	10-AS-2012B	Indoor Air	3/12/2010	0.041	J	ND	1.0	0.39	J	0.38	J
				10-SS-2012-1										
				10-SS-2012-1-FG (fixed gases only)										
KJ	2012	Residential	Subslab	10-SS-2012-1-RA (Radon only)	Soil Gas	3/12/2010	2.4		ND	1.0	6.7		10	
DEQ	2012	Residential	Subslab	DEQ-10-SS-2012-1	Soil Gas	3/12/2010	0.91		ND	0.82	3.0		5.7	
				10-SS-2012-2										
KJ	2012	Residential	Subslab	10-SS-2012-2-RA (Radon only)	Soil Gas	3/12/2010	1.3	j	ND	1.0	4.1		4.5	
KJ	2012	Residential	Subslab	D1-SS-03-12-10 (Dup of 10-AS-2012-2)	Soil Gas	3/12/2010	6.1		ND	1.0	3.6		4.2	
				10-SS-2012-3										
KJ	2012	Residential	Subslab	10-SS-2012-3-RA (Radon only)	Soil Gas	3/12/2010	1.5		ND	1.0	75		11	
KJ	2064	Residential	Bedroom	09-AS-2064L	Indoor Air	3/3/2009	0.14	J	0.025		3.5		0.33	
				09-AS-2064B										
KJ	2064	Residential	Basement	09-AS-2064B-RI (Radon only)	Indoor Air	3/3/2009	0.11	J	0.053		1.4		0.21	
KJ	2064	Residential	Subslab	09-SG-2064	Soil Gas	3/3/2009	9.4		ND	5.0	ND	5.0	ND	5.0
KJ	131-1	Residential	Living Room	09-AS-131-1	Indoor Air	2/12/2009	0.052	J	ND	0.030	1.3		0.22	
KJ	131-1	Residential	Soil Gas (2 ft)	09-SG-131-1	Soil Gas	2/12/2009	5.6		ND	5.0	ND	5.0	ND	5.0
KJ	131-2	Residential	Utility Room	09-AS-131-2	Indoor Air	2/12/2009	0.16	J	0.042		1.3		0.97	
				09-SG-131-2										
KJ	131-2	Residential	Soil Gas (1.5 ft)	09-SG-131-2	Soil Gas	2/12/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
GSI	138A	Commercial	Shop Area	10-AS-138A-G	Indoor Air	3/30/2010	ND	0.67	ND	0.67	31	j	86	
GSI	138A	Commercial	Shop Area	D3-AS-3-29-10 (Dup of 10-AS-138A-G)	Indoor Air	3/30/2010	ND	0.52	ND	0.52	24	j	70	
GSI	138A	Commercial	Office area	10-AS-138A-L	Indoor Air	3/30/2010	ND	0.68	ND	0.68	13		62	
GSI	138A	Commercial	Subslab	10-SS-138A-01	Soil Gas	3/29/2010	7.7		0.32		29		20	
DEQ	138A	Commercial	Subslab	10-SS-138A-DEQ	Soil Gas	3/29/2010	7.9		ND	0.86	28		20	
KJ	138A	Commercial	Office area	09-AS-138A-RI (Radon only)	Indoor Air	2/27/2009	ND	0.62	ND	0.074	3.4		32	
KJ	138A	Commercial	Subslab	9-SG-138A	Soil Gas	2/27/2009	5.9		ND	5.0	12		25	
GSI	138B	Commercial	Garage area	10-AS-138B-G	Indoor Air	3/30/2010	1.5		ND	0.67	27		15	
GSI	138B	Commercial	Office area	10-AS-138B-L	Indoor Air	3/30/2010	ND	0.19	ND	0.19	3.9		ND	0.93
GSI	138B	Commercial	Subslab	10-SS-138B-01	Soil Gas	3/29/2010	28		0.17		6.0		4.4	
DEQ	138B	Commercial	Subslab	10-SS-138B-DEQ	Soil Gas	3/29/2010	24		ND	0.82	5.3		4.3	
KJ	138B	Commercial	Office area	09-AS-138B-RI (Radon only)	Indoor Air	2/27/2009	0.058	J	0.042		0.78		0.46	
KJ	138B	Commercial	Subslab	09-SG-138B	Soil Gas	2/27/2009	7.3		ND	5.0	ND	5.0	ND	5.0
GSI	138C	Commercial	Garage area	10-AS-138C-G	Indoor Air	3/30/2010	11		ND	0.98	67		39	
GSI	138C	Commercial	Office Area	10-AS-138C-L	Indoor Air	3/30/2010	10		ND	0.98	59		35	
GSI	138C	Commercial	Subslab	10-SS-138C-01	Soil Gas	3/29/2010	10		0.25		28		18	
DEQ	138C	Commercial	Subslab	10-SS-138C-1DEQ	Soil Gas	3/29/2010	10		ND	0.84	26		18	
GSI	138C	Commercial	Subslab	10-SS-138C-02	Soil Gas	3/29/2010	5.8		ND	0.14	12		7.9	
GSI	138C	Commercial	Subslab	D1-SS-3-29-10 (Dup of 10-SS-138C-02)	Soil Gas	3/29/2010	5.9		0.15		12		8.0	
GSI	138C	Commercial	Subslab	10-SS-138C-03	Soil Gas	3/29/2010	14		0.18		14		10	
KJ	138C	Commercial	Office area	09-AS-138C-RI (Radon only)	Indoor Air	2/27/2009	30		ND	0.19	54		36	
KJ	138C	Commercial	Subslab	09-SG-138C	Soil Gas	2/27/2009	23		ND	5.0	19		9.5	
KJ	23B	Residential	Living area	10-AS-23BL	Indoor Air	3/12/2010	1.4		0.059	J	3.9		0.92	J
KJ	23B	Residential	Basement	10-AS-23BB	Indoor Air	3/12/2010	4.0		0.017	J	0.40	J	0.19	J
KJ	23B	Residential	Soil Gas (2 ft.)	10-SG-23B-FG (fixed gases only)	Soil Gas	3/11/2010	4800	Ej	15		6.3		4.4	
KJ	23B	Residential	Living Room	08-AS-23BL	Indoor Air	2/29/2008	1.9		0.086		6.6		1.5	
KJ	23B	Residential	Basement dirt floor	08-SG-23B	Soil Gas	2/29/2008	3900	j	30	j	ND	25	ND	25
KJ	317A	Residential	Living room	10-AS-317AL	Indoor Air	3/8/2010	0.67		0.053	J	0.97		1.4	
KJ	317A	Residential	Basement	10-AS-317AB	Indoor Air	3/9/2010	0.19	J	0.10	J	1.5		0.66	J
KJ	317A	Residential	Subslab	10-SS-317A-1	Soil Gas	3/8/2010	6.7		0.28	Jj	3.6		9.4	
KJ	317A	Residential	Subslab	10-SS-317A-1-FG (fixed gases only)	Soil Gas	3/8/2010	11		ND	1.0	4.8		14	
KJ	317A	Residential	Subslab	10-SS-317A-1-RA (Radon only)	Soil Gas	3/8/2010	3.2		0.12	Jj	2.5		3.9	
KJ	317A	Residential	Subslab	10-SS-317A-2	Soil Gas	3/8/2010	4.7		ND	1.0	3.7		6.0	
KJ	317A	Residential	Subslab	10-SS-317A-2-RA (Radon only)	Soil Gas	3/8/2010	3.6		0.022	Jj	1.6		3.3	
KJ	317A	Residential	Subslab	10-SS-317A-3	Soil Gas	3/8/2010	5.4		ND	1.0	2.6		5.5	
KJ	317A	Residential	Subslab	10-SS-317A-3-RA (Radon only)	Soil Gas	3/8/2010	1.5		0.14		7.9		33	
KJ	317A	Residential	Living Room	09-AS-317A-RI (Radon only)	Indoor Air	3/18/2009	1.6		0.15		7.9		33	
KJ	317A	Residential	Subslab	D1-AS-03-18-09 (Dup of 09-AS-317A)	Indoor Air	3/18/2009	6.8		ND	5.0	9.2		5.3	
DEQ	317A	Residential	Subslab	09-SG-317A-DEQ	Soil Gas	3/18/2009	6.8		ND	3.2	4.1		ND	3.2
KJ	317B	Residential	Dining room	10-AS-317BL	Indoor Air	3/8/2010	0.36	J	0.95		5.3		1.8	
KJ	317B	Residential	Basement	10-AS-317BB	Indoor Air	3/9/2010	0.28	J	ND	1.0	3.6		1.1	
KJ	317B	Residential	Subslab	10-SS-317B-1	Soil Gas	3/8/2010	3.8		0.062	Jj	1.5		5.1	
KJ	317B	Residential	Subslab	10-SS-317B-1-FG (fixed gases only)	Soil Gas	3/8/2010	5.8		ND	1.0	2.2		8.2	
KJ	317B	Residential	Subslab	10-SS-317B-1-RA (Radon only)	Soil Gas	3/8/2010	2.5		0.071	Jj	170		41	
KJ	317B	Residential	Subslab	10-SS-317B-2	Soil Gas	3/8/2010	3.9		ND	1.0	300		69	
KJ	317B	Residential	Subslab	10-SS-317B-2-RA (radon only)	Soil Gas	3/8/2010	3.5		0.095	Jj	2.3		6.2	
KJ	317B	Residential	Subslab	10-SS-317B-3	Soil Gas	3/8/2010	5.8		0.2	J	3.9		11	
KJ	317B	Residential	Subslab	10-SS-317B-3-RA (Radon only)	Soil Gas	3/8/2010	1.4	JB	3.9	B	5.2		1.3	J
DEQ	317B	Residential	Kitchen	09-AS-317B-DEQ	Indoor Air	3/18/2009	0.76		0.11		6.2		2.4	
KJ	317B	Residential	Subslab	09-SG-317B	Soil Gas	3/18/2009	19		ND	5.0	19		14	
KJ	349A	Residential	Living area	09-AS-349A-RI (Radon only)	Indoor Air	2/27/2009	0.75		0.098		1.2		1.3	
KJ	349A	Residential	Subslab	09-SG-349A	Soil Gas	2/27/2009	ND	5.0	ND	5.0	5.2		ND	5.0





## INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS

### Burlington Northern Livingston Shop Complex

Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	78M	Commercial	Maintenance area	11-AS-78M-1	Indoor Air	3/29/2011	0.96		1.1		17		12	
KJ	78M	Commercial	Office area	11-AS-78M-2	Indoor Air	3/29/2011	0.28		0.030	J	0.46		0.29	
KJ	78M	Commercial	Subslab	11-SS-78M-1	Soil Gas	3/29/2011	160		ND	1.0	2.5		2.2	
KJ	78M	Commercial	Subslab	11-SS-78M-2	Soil Gas	3/29/2011	99		ND	1.0	1.9		5.3	
KJ	78M	Commercial	Subslab	11-SS-78M-3	Soil Gas	3/29/2011	85	j	0.52	j	2.4	j	5.7	j
KJ	78M	Commercial	Shop area	09-AS-78M-1 09-AS-78M-RI (Radon only)	Indoor Air	3/2/2009	0.64		1.2		38		14	
KJ	78M	Commercial	Office area	09-AS-78M-2	Indoor Air	3/2/2009	0.53		0.40		11		4.1	
KJ	78M	Commercial	Subslab	09-SG-78M	Soil Gas	3/2/2009	210		ND	5.0	35		5.4	
KJ	78M	Commercial	Subslab	DI-SG-03-02-09 (Dup of 09-SG-78M)	Soil Gas	3/2/2009	270		ND	5.0	10		5.4	
KJ	78M	Commercial	Maintenance area	08-AS-78M-1	Indoor Air	3/3/2008	1.1		16		89		42	
KJ	78M	Commercial	Office area	08-AS-78M-2	Indoor Air	3/3/2008	0.30		0.16		4.8		2.5	
KJ	78M	Commercial	Subslab	08-SG-78M	Soil Gas	3/3/2008	26	j	ND	5.0	ND	25	ND	25
KJ	80-2	Residential	Living Room	08-AS-80-2	Indoor Air	2/27/2008	0.079	J	0.018	J	1.2		1.5	
KJ	80-2	Residential	Other	08-SG-80-2	Soil Gas	2/27/2008	71		ND	5.0	ND	25	ND	25
KJ	80-4	Residential	Living Room	08-AS-80-4	Indoor Air	3/5/2008	0.29		0.059		2.4		0.49	
KJ	80-4	Residential	Other	08-SG-80-4	Soil Gas	3/5/2008	25		ND	5.0	ND	25	ND	25
KJ	80-5	Residential	Living Room	05-AS-80-5L	Indoor Air	12/12/2005	ND	0.26	0.075					
KJ	80-8	Residential	Living Room	08-AS-80-8	Indoor Air	3/5/2008	0.14	J	0.051		6.7		8.7	
KJ	80-8	Residential	Other	08-SG-80-8	Soil Gas	3/5/2008	ND	5.0	ND	5.0	ND	25	ND	25
KJ	89-1	Residential	Laundry room	09-AS-89-1	Indoor Air	2/26/2009	0.88		ND	0.022	0.57		0.14	
KJ	89-1	Residential	(crawlspace)	09-SG-89-1	Soil Gas	2/26/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	89-2	Residential	Living Room	11-AS-89-2-M	Indoor Air	4/5/2011	0.28		ND	0.18	1.9		0.49	
KJ	89-2	Residential	Basement	11-AS-89-2-B	Indoor Air	4/5/2011	0.31		ND	0.18	1.4		0.34	
KJ	89-2	Residential	Subslab	11-SS-89-2-1	Soil Gas	4/5/2011	31		ND	0.50	0.98		7.0	
KJ	89-2	Residential	Subslab	11-SS-89-2-2	Soil Gas	4/5/2011	25		ND	0.50	0.98		2.7	
KJ	89-2	Residential	Subslab	11-SS-89-2-3	Soil Gas	4/5/2011	32		ND	0.50	2.0		3.2	
KJ	89-2	Residential	Living room	10-AS-89-2L	Indoor Air	3/19/2010	2.2		0.49	J	2.2		0.037	Jj
KJ	89-2	Residential	Basement	10-AS-89-2B 10-SS-89-2-1	Indoor Air	3/19/2010	0.34	J	ND	1.0	0.60	J	0.098	Jj
KJ	89-2	Residential	Subslab	10-SS-89-2-1-FG (fixed gases only) 10-SS-89-2-1-RA (Radon only)	Soil Gas	3/19/2010	25		1.1		5.8		3.4	
KJ	89-2	Residential	Subslab	10-SS-89-2-2 10-SS-89-2-2-RA (Radon only)	Soil Gas	3/19/2010	27		1.6		4.2		6.2	
KJ	89-2	Residential	Subslab	10-SS-89-2-3 10-SS-89-2-3-RA (Radon only)	Soil Gas	3/19/2010	21		0.7	J	8.8		2.8	
KJ	89-2	Residential	Living Room	09-AS-89-2-RI (Radon only) D1-AS-03-17-09 (Dup of 09-AS-89-2)	Indoor Air	3/17/2009	0.88		0.091		6.6		29	
KJ	89-2	Residential	Living Room	09-AS-89-2	Indoor Air	3/17/2009	0.93		0.096		7.9		32	
KJ	89-2	Residential	Subslab	09-SG-89-2	Soil Gas	3/17/2009	27		ND	5.0	8.3		ND	5.0
DEQ	89-2	Residential	Subslab	09-SG-89-2-DEQ	Soil Gas	3/17/2009	15		ND	3.0	3.2		ND	3.0
KJ	89-3	Residential	Living Room	09-AS-89-3	Indoor Air	2/12/2009	0.088	J	0.024	J	1.3		0.33	
KJ	89-3	Residential	Soil Gas (1.5 ft)	09-SG-89-3	Soil Gas	2/12/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
DEQ	89-3	Residential	Soil Gas (1.5 ft)	09-SG-89-3-DEQ	Soil Gas	2/12/2009	ND	2.9	ND	2.9	ND	2.9	ND	2.9
KJ	89-4	Residential	Living Room	09-AS-89-4L 09-AS-89-4B 09-AS-89-4-RI (Radon only) D1-SG-02-25-09 (Dup of 09-SG-89-4)	Indoor Air	2/25/2009	0.078	J	ND	0.028	1.2		0.14	J
KJ	89-4	Residential	Basement	09-SG-89-4	Soil Gas	2/25/2009	0.62		ND	0.025	0.96		0.16	
KJ	89-4	Residential	Subslab	09-SG-89-4	Soil Gas	2/25/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	89-4	Residential	Subslab	09-SG-89-4	Soil Gas	2/25/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	BG11	Residential	Living Room	06-AS-BG11L	Indoor Air	4/7/2006	0.27		0.340					
KJ	BG11	Residential	Basement	06-AS-BG11B	Indoor Air	4/7/2006	ND	0.26	0.060					
KJ	BG11	Residential	Living Room	05-AS-BG11L	Indoor Air	12/14/2005	0.91		ND	0.029				
KJ	BG11	Residential	Basement	05-AS-BG11B	Indoor Air	12/14/2005	ND	0.25	0.037					
KJ	BG29	Residential	Living Room	06-AS-BG29L	Indoor Air	4/7/2006	ND	0.26	5.9					
KJ	BG29	Residential	Basement	06-AS-BG29B	Indoor Air	4/7/2006	ND	0.25	0.23					
KJ	BG29	Residential	Living Room	05-AS-BG29L	Indoor Air	12/12/2005	ND	0.26	6.1					
KJ	BG29	Residential	Basement	05-AS-BG29B	Indoor Air	12/12/2005	ND	0.23	0.11					
KJ	E	Residential	Bedroom	10-AS-E	Indoor Air	3/11/2010	0.33	J	0.083	J	1.1		3.4	
KJ	E	Residential	Crawlspace	10-CS-E	Soil Gas	3/11/2010	2.8		0.7	J	1.4		4.8	
KJ	E	Residential	Living Room	08-AS-EL	Indoor Air	2/25/2008	0.18	J	0.12		0.96		0.65	
GSI	H	Residential	Living Room	10-AS-H-L	Indoor Air	3/26/2010	2.1		ND	0.22	0.98		2.1	
GSI	H	Residential	Basement	10-AS-H-B 10-RL-H-01 (Radon only)	Indoor Air	3/26/2010	0.51		ND	0.23	0.8		1.5	
GSI	H	Residential	Subslab	10-SS-H-01	Soil Gas	3/25/2010	2.6		0.95		26		7.2	
GSI	H	Residential	Subslab	10-SS-H-02	Soil Gas	3/25/2010	2.1		0.42		19		8.9	
GSI	H	Residential	Subslab	10-SS-H-03	Soil Gas	3/25/2010	2.0		0.20		11		3.7	
DEQ	H	Residential	Subslab	DEQ-10-SS-H-3	Soil Gas	3/25/2010	2.1		ND	0.84	11		3.8	
KJ	H	Residential	Living Room	09-AS-H 09-AS-H-RI (Radon only) D1-AS-02-25-09 (Dup of 09-AS-H)	Indoor Air	2/25/2009	3.5		0.15		0.89		4.6	
KJ	H	Residential	Living Room	09-AS-H	Indoor Air	2/25/2009	0.91		0.076		1.3		5.1	
KJ	H	Residential	Subslab	09-SG-H	Soil Gas	2/25/2009	6.4		ND	5.0	ND	5.0	ND	5.0
DEQ	H	Residential	Subslab	09-SG-H-DEQ	Soil Gas	2/25/2009	4.4		ND	3.4	ND	3.4	ND	3.4
KJ	IIA	Residential	Living room	10-AS-IIAL	Indoor Air	3/12/2010	0.34	J	0.039	J	3.4		1.2	
KJ	IIA	Residential	Basement	10-AS-IIAB 10-SG-IIA	Indoor Air	3/12/2010	0.10	J	ND	1.0	57		38	
KJ	IIA	Residential	Soil Gas (1.5 ft.) (fixed gases only)	10-SG-IIA-FG	Soil Gas	3/12/2010	2.8		ND	1.0	91		14	
KJ	IIA	Residential	Living Room	09-AS-IIA	Indoor Air	3/18/2009	0.39	J	ND	0.051	2.3		0.82	
KJ	IIA	Residential	Soil Gas (1.5 ft)	09-SG-11a	Soil Gas	3/18/2009	ND	5.0	ND	5.0	12		5.3	
KJ	IIA	Residential	Soil Gas (1.5 ft)	D1-SG-03-18-09 (Dup of 09-SG-11a)	Soil Gas	3/18/2009	ND	5.0	ND	5.0	8.2		ND	5.0





**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	SE-11	Residential	Living Room	08-AS-SE-11L	Indoor Air	2/28/2008	ND	0.18	ND	0.021	0.99		ND	0.11
KJ	SE-11	Residential	Basement	08-AS-SE-11B	Indoor Air	2/28/2008	ND	0.21	ND	0.025	0.97		ND	0.14
KJ	SE-11	Residential	Subslab	08-SG-SE-11	Soil Gas	2/28/2008	22		ND	5.0	ND	25	ND	25
KJ	SE-11	Residential	Subslab	D1-SG-02-28-08 (Dup of 08-SG-SE-11)	Soil Gas	2/28/2008	110	j	5.5	j	ND	25	ND	25
DEQ	SE-11	Residential	Living Room	07-As-SE11L-S	Indoor Air	4/4/2007	0.41		ND	0.13				
KJ	SE-11	Residential	Living Room	07-As-SE-11L	Indoor Air	4/4/2007	0.39		0.075		1.4		4.2	
KJ	SE-11	Residential	Basement	07-AS-SE-11B	Indoor Air	4/4/2007	0.76		0.37		3.1		4.7	
KJ	SE-11	Residential	Basement	D1-AS-04-04-07 (Dup of 07-AS-SE-11B)	Indoor Air	4/4/2007	0.55		0.26		1.0		3.2	
DEQ	SE-11	Residential	Subslab	07-SG-SE11-1S	Soil Gas	4/4/2007	13		ND	5.2	ND	3.1	6.5	
KJ	SE-11	Residential	Subslab	07-SG-SE-11-1	Soil Gas	4/4/2007	24		ND	5.0	12		9.8	
KJ	SE-12A	Residential	Living Room	09-AS-SE-12AL	Indoor Air	3/18/2009	0.10	J	0.022	J	0.95		0.90	
KJ	SE-12A	Residential	Basement	09-AS-SE-12AB	Indoor Air	3/18/2009	0.22	J	0.84		0.89		1.4	
KJ	SE-12A	Residential	Subslab	09-SG-SE-12A	Soil Gas	3/18/2009	11		ND	5.0	12		ND	5.0
KJ	SE-12B	Residential	Bedroom	09-AS-SE-12B	Indoor Air	3/18/2009	0.14	J	ND	0.024	0.73		0.28	
KJ	SE-12B	Residential	Subslab	09-SG-SE-12B	Soil Gas	3/18/2009	ND	5.0	ND	5.0	6.1		ND	5.0
KJ	SE-12C	Commercial	Office area	09-AS-SE-12C	Indoor Air	3/18/2009	0.042	J	0.30		0.81		0.31	
KJ	SE-12C	Commercial	Subslab	09-SG-SE-12C	Soil Gas	3/18/2009	ND	5.0	ND	5.0	7.2		5.9	
KJ	SE-14	Residential	Living Room	09-AS-SE-14	Indoor Air	3/2/2009	0.062	J	0.42		0.25	J	0.14	
KJ	SE-14	Residential	Subslab	09-SG-SE-14	Soil Gas	3/2/2009	7.3		ND	5.0	ND	5.0	ND	5.0
KJ	SE-14	Residential	Living Room	08-AS-SE-14L	Indoor Air	2/27/2008	ND	0.18	2.0	j	1.4	j	1.6	j
DEQ	SE-14	Residential	Living Room	08-AS-SE14LDEQ	Indoor Air	2/27/2008	1.1		2.3		1.1		3.1	
KJ	SE-14	Residential	Basement	08-AS-SE-14B	Indoor Air	2/27/2008	0.047	J	5.3		0.55		0.35	
KJ	SE-14	Residential	Subslab	08-SG-SE-14	Soil Gas	2/27/2008	10		ND	5.0	ND	25	ND	25
KJ	SE-16	Residential	Living Room Other	09-AS-SE-16	Indoor Air	3/3/2009	1.1		0.034		0.89		0.22	
KJ	SE-16	Residential	(crawl)space	09-SG-SE-16	Soil Gas	3/3/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	SE-18	Residential	Den Other	09-AS-SE-18	Indoor Air	3/19/2009	1.2		0.79		1.3		1.8	
KJ	SE-18	Residential	(crawl)space	09-SG-SE-18	Soil Gas	3/19/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	SE-19	Residential	Kitchen Other	09-AS-SE-19	Indoor Air	3/17/2009	0.21	J	0.029		0.48		0.11	J
KJ	SE-19	Residential	(crawl)space	09-SG-SE-19	Soil Gas	3/17/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	SE-2	Residential	Living room	11-AS-SE-2-M	Indoor Air	3/29/2011	0.11	J	0.061	J	0.46		0.11	J
KJ	SE-2	Residential	Basement	11-AS-SE-2-B	Indoor Air	3/29/2011	0.10	J	0.048	J	0.51		0.13	
KJ	SE-2	Residential	Subslab	11-SS-SE-2-1	Soil Gas	3/29/2011	23		ND	0.50	2.0		7.2	
KJ	SE-2	Residential	Subslab	11-SS-SE-2-2	Soil Gas	3/29/2011	15		ND	0.50	1.9		4.8	
KJ	SE-2	Residential	Subslab	11-SS-SE-2-3	Soil Gas	3/29/2011	25		ND	0.50	6.4		8.2	
KJ	SE-2	Residential	Living Room	08-AS-SE-2L	Indoor Air	3/3/2008	0.58		0.070		1.3		1.4	
DEQ	SE-2	Residential	Basement	08-AS-SE-2-S	Indoor Air	3/3/2008	1.0		ND	0.25	1.1		2.4	
KJ	SE-2	Residential	Basement	08-AS-SE-2B	Indoor Air	3/3/2008	0.14	J	0.040		0.61		0.15	
KJ	SE-2	Residential	Subslab	08-SG-SE-2	Soil Gas	3/3/2008	ND	5.0	ND	5.0	ND	25	ND	25
KJ	SE-2	Residential	Living Room	06-AS-SE-2L	Indoor Air	4/8/2006	1.7		0.15					
KJ	SE-2	Residential	Basement	06-AS-SE-2B	Indoor Air	4/8/2006	1.5		0.15					
KJ	SE-2	Residential	Subslab	06-SG-SE-2-1	Soil Gas	4/7/2006	26		ND	5.0	ND	5.0	ND	5.0
KJ	SE-20	Residential	Living room	10-AS-SE-20	Indoor Air	3/15/2010	0.090	J	0.019	J	0.57		0.19	
KJ	SE-20	Residential	Crawlspace	10-CS-SE-20	Soil Gas	3/15/2010	1.6		ND	1.0	2.5		4.2	
KJ	SE-20	Residential	Kitchen	08-AS-SE-20	Indoor Air	3/3/2008	0.14	J	0.034		0.95		0.25	
KJ	SE-23	Residential	Living Room	11-AS-SE-23	Indoor Air	3/30/2011	1.8		0.061	J	0.85		0.22	J
KJ	SE-23	Residential	Living Room	D1-AS-033011 (Dup of 11-AS-SE-23)	Indoor Air	3/30/2011	1.4		ND	0.28	0.74		0.18	J
KJ	SE-23	Residential	Crawlspace	11-CS-SE-23	Soil Gas	3/30/2011	1.3		ND	0.50	0.96		1.1	
KJ	SE-23	Residential	Crawlspace	D1-CS-033011 (Dup of 11-CS-SE-23)	Soil Gas	3/30/2011	1.4		ND	0.50	0.83		1.6	
KJ	SE-23	Residential	Soil Gas (3 ft.)	11-SG-SE-23	Soil Gas	3/30/2011	27		ND	0.50	1.0		1.4	
GSI	SE-23	Residential	Second floor	10-AS-SE-23-05	Indoor Air	3/31/2010	0.59		ND	0.21	1.7		2.1	
GSI	SE-23	Residential	Living Room	10-AS-SE-23-L	Indoor Air	3/31/2010	0.76		ND	0.28	1.6		2.6	
GSI	SE-23	Residential	Crawlspace	10-CS-SE-23-01	Indoor Air	3/31/2010	1.3		ND	0.18	0.85		ND	0.89
GSI	SE-23	Residential	Soil Gas (2 ft.)	10-SG-SE-23-01	Soil Gas	3/30/2010	54		0.34		0.57		4.6	
DEQ	SE-23	Residential	Soil Gas (2 ft.)	10-SG-SE-23-DEQ	Soil Gas	3/30/2010	58		ND	0.85	ND	0.85	ND	0.85
KJ	SE-23	Residential	Bedroom Other	09-AS-SE-23	Indoor Air	2/26/2009	2.2		0.073		1.6		0.74	
KJ	SE-23	Residential	(crawl)space	09-SG-SE-23	Soil Gas	2/26/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	SE-25	Residential	Living Room	09-AS-SE-25	Indoor Air	2/25/2009	0.27		ND	0.027	0.67		0.15	
KJ	SE-25	Residential	Other (mobile)	09-SG-SE-25	Soil Gas	2/25/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	SE-3	Residential	Bedroom	10-AS-SE-3L	Indoor Air	3/19/2010	0.058	J	ND	1.0	1.2		0.43	J
KJ	SE-3	Residential	Basement	10-AS-SE-3B	Indoor Air	3/19/2010	0.059	J	0.014	J	1.0		0.39	J
KJ	SE-3	Residential	Basement	D1-AS-03-19-10 (Dup of 10-AS-SE-3B)	Indoor Air	3/19/2010	ND	1.0	ND	1.0	1.0		0.36	J
KJ	SE-3	Residential	Subslab	10-SS-SE-3 (fixed gases only)	Soil Gas	3/19/2010	5.1		ND	1.0	3.7		4.6	
KJ	SE-3	Residential	Living Room	08-AS-SE-3L	Indoor Air	2/28/2008	0.068	J	0.037		0.87		0.27	
KJ	SE-3	Residential	Basement	08-AS-SE-3B	Indoor Air	2/28/2008	0.98		0.081		1.4		2.4	
DEQ	SE-3	Residential	Basement	08-AS-SE3BDEQ	Indoor Air	2/28/2008	1.3		ND	0.13	1.5		3.8	
KJ	SE-3	Residential	Subslab	08-SG-SE-3	Soil Gas	2/28/2008	6.7		ND	5.0	ND	25	ND	25
DEQ	SE-3	Residential	Subslab	08-SG-SE3DEQ	Soil Gas	2/28/2008	ND	3.4	ND	2.7	ND	1.6	ND	2.2
DEQ	SE-5	Residential	Downstairs	08-AS-SE-5-S	Indoor Air	3/5/2008	2.1		ND	0.24	1.7		11	
KJ	SE-5	Residential	Downstairs	08-AS-SE-5	Indoor Air	3/5/2008	1.4	j	0.18	j	2.9	j	6.3	j
KJ	SE-5	Residential	Crawlspace dirt floor (1.5 ft)	08-SG-SE-5	Soil Gas	3/5/2008	30		ND	5.0	ND	25	ND	25
KJ	SE-5	Residential	Basement	06-GF-SE-5-1	Soil Gas	4/5/2006	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	SE-5	Residential	Basement	06-GF-SE-5-2	Soil Gas	4/6/2006	31		ND	5.0	ND	5.0	ND	5.0
KJ	SE-5	Residential	Downstairs	05-AS-SE-5L	Indoor Air	12/14/2005	0.42		0.27					
KJ	SE-7	Residential	Bedroom	09-AS-SE-7L	Indoor Air	3/17/2009	0.044	J	ND	0.026	0.92		0.30	
KJ	SE-7	Residential	Basement	09-AS-SE-7B (Radon only)	Indoor Air	3/17/2009	0.052	J	ND	0.021	0.96		0.30	
KJ	SE-7	Residential	Subslab	09-SG-SE-7	Soil Gas	3/17/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0
KJ	SE-7	Residential	Subslab	D2-SG-03-17-09 (Dup of 09-SG-SE-7)	Soil Gas	3/17/2009	ND	5.0	ND	5.0	ND	5.0	ND	5.0



**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	SE-8	Residential	Bedroom	09-AS-SE-8-1	Indoor Air	2/11/2009	0.089	J	ND	0.027	0.95		14	
KJ	SE-8	Residential	Soil Gas (2 ft)	09-SG-SE8-1	Soil Gas	2/11/2009	46		ND	5.0	6.3		ND	5.0
KJ	SE-8	Residential	Living Room	08-AS-SE-8	Indoor Air	2/27/2008	ND	0.20	ND	0.023	0.74		ND	0.12
KJ	SE-8	Residential	Basement dirt floor (2 ft)	08-SG-SE-8	Soil Gas	2/27/2008	36		ND	5.0	ND	25	ND	25
DEQ	SE-8	Residential	Basement dirt floor (2 ft)	08-SG-SE8DEQ	Soil Gas	2/27/2008	31		7.5		6.3		3.2	
KJ	SE-8-2	Residential	Living Room	09-AS-SE-8-2	Indoor Air	2/11/2009	0.15	J	ND	0.028	0.91		1.4	
KJ	SE-8-2	Residential	Other (crawlpace)	09-SG-SE8-2	Soil Gas	2/11/2009	16		ND	5.0	ND	5.0	ND	5.0
KJ	SE-9	Residential	Living Room	09-AS-SE-9L	Indoor Air	2/25/2009	0.18	J	ND	0.035	0.61		0.34	
DEQ	SE-9	Residential	Living Room	09-AS-SE-9-DEQ	Indoor Air	2/25/2009	0.26		0.032		0.85		0.56	
KJ	SE-9	Residential	Subslab	09-SG-SE-9	Soil Gas	2/25/2009	30		ND	5.0	30		9.8	
KJ	SE-9	Residential	Living Room	08-AS-SE-9L	Indoor Air	7/14/2008	0.15	J	0.054		0.65		0.29	
KJ	SE-9	Residential	Basement	08-AS-SE-9B	Indoor Air	7/14/2008	0.77		0.052		0.65		0.22	
KJ	SE-9	Residential	Subslab	08-SG-SE-9	Soil Gas	7/14/2008	42		ND	5.0	14		8.1	
KJ	TT	Residential	Bedroom	10-AS-TTL	Indoor Air	3/10/2010	0.037	J	0.019	J	0.71	J	0.74	J
KJ	TT	Residential	Basement bedroom	10-AS-TTB	Indoor Air	3/10/2010	0.14	J	ND	1.0	0.74	J	0.69	J
KJ	TT	Residential	Subslab	10-SS-TT-1 10-SS-TT-1-FG (fixed gases only) 10-SS-TT-1-RA (Radon only)	Soil Gas	3/10/2010	6.8		ND	1.0	3.4		15	
KJ	TT	Residential	Subslab	10-SS-TT-2 10-SS-TT-2-RA (Radon only)	Soil Gas	3/10/2010	17		ND	1.0	13		20	
KJ	TT	Residential	Subslab	10-SS-TT-3 10-SS-TT-3-RA (Radon only)	Soil Gas	3/10/2010	3.4		ND	1.0	2.8		8.4	
KJ	TT	Residential	Living Room	09-AS-TTL	Indoor Air	3/19/2009	0.089	J	0.074	J	2.6		1.6	
KJ	TT	Residential	Basement	09-AS-TTB	Indoor Air	3/19/2009	0.11	J	0.10		1.6		2.1	
KJ	TT	Residential	Subslab	09-SG-TT	Soil Gas	3/19/2009	7.0		ND	5.0	9.0		7.2	
KJ	U	Residential	Living Room	09-AS-UL	Indoor Air	2/25/2009	0.074	J	0.16		1.8		0.70	
KJ	U	Residential	Basement	09-AS-UB	Indoor Air	2/25/2009	0.071	J	0.38		0.86		0.41	
KJ	U	Residential	Subslab	09-AS-U-RI (Radon only)	Indoor Air	2/25/2009	0.071	J	0.38		0.86		0.41	
KJ	U	Residential	Subslab	09-SG-U	Soil Gas	2/25/2009	5.4		ND	5.0	12		ND	5.0
KJ	U	Residential	Living Room	08-AS-UL	Indoor Air	3/4/2008	8.6		0.23		2.6		0.94	
KJ	U	Residential	Basement	08-AS-UB	Indoor Air	3/4/2008	1.6		0.42		1.8		0.83	
KJ	U	Residential	Subslab	08-SG-U	Soil Gas	3/4/2008	6.5		ND	5.0	ND	25	ND	25
KJ	U	Residential	Subslab	D1-SG-03-04-08 (Dup of 08-SG-U)	Soil Gas	3/4/2008	12	j	25	j	ND	25	ND	25
KJ	YY	Residential	Living room	11-AS-YY-M	Indoor Air	4/6/2011	0.15	J	0.029	J	2.6		2.6	
KJ	YY	Residential	Basement	11-AS-YY-B	Indoor Air	4/6/2011	0.12	J	0.024	J	3.0		4.2	
KJ	YY	Residential	Subslab	11-SS-YY-1-RA (Radon only)	Indoor Air	4/6/2011	4.2		ND	0.50	2.5		7.7	
KJ	YY	Residential	Subslab	11-SS-YY-1	Soil Gas	4/6/2011	4.5		ND	0.50	5.4		11	
KJ	YY	Residential	Subslab	11-SS-YY-2	Soil Gas	4/6/2011	2.0		ND	0.50	2.1		6.7	
KJ	YY	Residential	Subslab	11-SS-YY-3	Soil Gas	4/6/2011	2.0		ND	0.50	2.1		6.7	
KJ	YY	Residential	Subslab	D1-SS-YY-040611 (Dup of 11-SS-YY-3)	Soil Gas	4/6/2011	1.9		ND	0.50	2.2		7.0	
KJ	ES	Commercial	Shop Area	07-AS-ES-1	Indoor Air*	4/18/2007	1.9		0.28		0.86		0.31	
KJ	ES	Commercial	Shop Area	07-AS-ES-2	Indoor Air*	4/18/2007	1.4		0.22		1.3		0.57	
KJ	ES	Commercial	Shop Area	07-AS-ES-3	Indoor Air*	4/18/2007	1.2		0.16		1.0		0.52	
DEQ	ES	Commercial	Subslab	07-SG-ES-5S	Soil Gas	4/18/2007	29		110		13		24	
KJ	ES	Commercial	Subslab	07-SG-ES-1	Soil Gas	4/18/2007	20		5.7		5.7		7.8	
KJ	ES	Commercial	Subslab	D1-SG-04-18-07 (Dup of 07-SG-ES-1)	Soil Gas	4/18/2007	220		15		27		15	
KJ	ES	Commercial	Subslab	07-SG-ES-2	Soil Gas	4/18/2007	39		ND	5.0	5.1		7.2	
KJ	ES	Commercial	Subslab	07-SG-ES-3	Soil Gas	4/18/2007	250		72		ND	25	ND	25
KJ	ES	Commercial	Subslab	07-SG-ES-4	Soil Gas	4/18/2007	3700		80		12		32	
KJ	ES	Commercial	Subslab	07-SG-ES-5	Soil Gas	4/18/2007	1500		37		ND	25	ND	25
KJ	ES	Commercial	Subslab	07-SG-ES-6	Soil Gas	4/18/2007	1800		540		ND	25	ND	25
KJ	ES	Commercial	Subslab	07-SG-ES-7	Soil Gas	4/18/2007	1700		49		18		39	
KJ	ES	Commercial	Subslab	07-SG-ES-8	Soil Gas	4/18/2007	330000		8700		ND	250	ND	250
KJ	ES	Commercial	Subslab	07-SG-ES-9	Soil Gas	4/18/2007	180000		7700		40		32	
KJ	ES	Commercial	Shop Area	06-SG-ES-RI	Indoor Air*	4/5/2006								
KJ	ES	Commercial	Subslab	06-SG-ES-1	Soil Gas	4/5/2006	72000	B	4600		ND	250	ND	250
KJ	ES	Commercial	Subslab	06-SG-ES-2	Soil Gas	4/5/2006	41000	B	2900		ND	50	96	
KJ	ES	Commercial	Subslab	D1-SG-04-05-06 (Dup. of 06-SG-ES-2)	Soil Gas	4/5/2006	47000	EB	3200		ND	50	70	
KJ	ES	Commercial	Subslab	06-SG-ES-3	Soil Gas	4/5/2006	46000	B	730		ND	250	ND	250
KJ	ES	Commercial	Shop Area	05-AS-ES	Indoor Air*	12/15/2005	3.6		200					
KJ	FTO	Commercial	Main Floor	12-AS-FTOM	Indoor Air*	2/22/2012	0.51		0.11	J	0.32		0.076	J
KJ	FTO	Commercial	Basement	12-SS-FTO-3-RA (Radon only)	Indoor Air*	2/22/2012	1.0		0.20		0.34		0.082	J
KJ	FTO	Commercial	Subslab	12-SS-FTO-1	Soil Gas	2/22/2012	64		20		2.5		2.7	
KJ	FTO	Commercial	Subslab	12-SS-FTO-2	Soil Gas	2/22/2012	97		23		3.2		2.2	
KJ	FTO	Commercial	Subslab	12-SS-FTO-3	Soil Gas	2/22/2012	95		2.9		3.3		3.7	
KJ	FTO	Commercial	Subslab	12-SS-FTO-3-R (Radon only)	Soil Gas	2/22/2012	95		2.9		3.3		3.7	
KJ	FTO	Commercial	Main Floor	10-AS-FTOM	Indoor Air*	3/24/2010	0.075	J	0.021	J	0.96	J	0.062	J
KJ	FTO	Commercial	Basement	10-AS-FTOB	Indoor Air*	3/24/2010	2.0		0.14	J	1.6		0.43	J
KJ	FTO	Commercial	Subslab	10-SS-FTO-1 10-SS-FTO-1-FG (fixed gases only) 10-SS-FTO-1-RA (Radon only)	Soil Gas	3/24/2010	27		14		3.8		35	
DEQ	FTO	Commercial	Subslab	10-SS-FTO-1-DEQ	Soil Gas	3/24/2010	64		19		1.3		2.6	
KJ	FTO	Commercial	Subslab	10-SS-FTO-2 10-SS-FTO-2-RA (Radon only)	Soil Gas	3/24/2010	57		21		4.1		27	
KJ	FTO	Commercial	Subslab	10-SS-FTO-3 10-SS-FTO-3-RA (Radon only)	Soil Gas	3/24/2010	51		1.4		5.2		11	
KJ	FTO	Commercial	Main Floor	07-AS-FTOM	Indoor Air*	4/2/2007	0.53		0.040		0.61		0.12	
KJ	FTO	Commercial	Basement	07-AS-FTOB	Indoor Air*	4/2/2007	8.9		0.71		0.74		1.3	
KJ	FTO	Commercial	Subslab	07-SG-FTO-1	Soil Gas	4/2/2007	290		88		11		8.5	
KJ	FTO	Commercial	Subslab	07-SG-FTO-2	Soil Gas	4/3/2007	540		130		ND	5.0	ND	5.0
KJ	FTO	Commercial	Subslab	07-SG-FTO-3	Soil Gas	4/2/2007	240		12		7.3		15	

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	FTPS	Commercial	Main Floor	12-AS-FTPS-M1	Indoor Air*	2/23/2012	0.072	J	0.010	Jj	0.57		0.16	
KJ	FTPS	Commercial	Main Floor	12-AS-FTPS-M2	Indoor Air*	2/23/2012	0.072	J	0.0097	Jj	0.56		0.14	
KJ	FTPS	Commercial	Subslab	12-SS-FTPS-6-RA (Radon only)	Indoor Air*	2/23/2012	47		100		7.7		7.2	
KJ	FTPS	Commercial	Subslab	12-SS-FTPS-1	Soil Gas	2/23/2012	12		19		4.0		2.7	
KJ	FTPS	Commercial	Subslab	12-SS-FTPS-2	Soil Gas	2/23/2012	12		170		5.7		3.1	
KJ	FTPS	Commercial	Subslab	12-SS-FTPS-3	Soil Gas	2/23/2012	12		7.6		3.3		4.2	
KJ	FTPS	Commercial	Subslab	12-SS-FTPS-4	Soil Gas	2/23/2012	5.5		1.5		2.9		2.6	
KJ	FTPS	Commercial	Subslab	12-SS-FTPS-5	Soil Gas	2/23/2012	11		3.9		0.90		2.5	
KJ	FTPS	Commercial	Subslab	12-SS-FTPS-6-R (Radon only)	Soil Gas	2/23/2012	14		3.8		1.0		3.2	
KJ	FTPS	Commercial	Subslab	12-DUP-SS-022312 (Dup of 12-SS-FTPS-6)	Soil Gas	2/23/2012	14		3.8		1.0		3.2	
KJ	FTPS	Commercial	Main Floor	10-AS-FTPS-M	Indoor Air*	3/24/2010	0.13	J	ND	1.0	0.84	J	0.27	J
KJ	FTPS	Commercial	Subslab	10-SS-FTPS-1	Soil Gas	3/24/2010	27		88		2.3		25	
KJ	FTPS	Commercial	Subslab	10-SS-FTPS-1-FG (fixed gases only)	Soil Gas	3/24/2010	6.4		4.2		20		31	
KJ	FTPS	Commercial	Subslab	10-SS-FTPS-2-RA (Radon only)	Soil Gas	3/24/2010	6.4		4.2		20		31	
KJ	FTPS	Commercial	Subslab	10-SS-FTPS-3-RA (Radon only)	Soil Gas	3/24/2010	46		1100		10		19	
KJ	FTPS	Commercial	Subslab	10-SS-FTPS-4-RA (Radon only)	Soil Gas	3/24/2010	68	j	38	j	13	j	18	j
KJ	FTPS	Commercial	Subslab	D1-SS-03-24-10 (Dup of 10-SS-FTPS-4)	Soil Gas	3/24/2010	100	j	9.4	j	8.1	j	13	j
KJ	FTPS	Commercial	Shop Area	07-AS-FTPS	Indoor Air*	4/2/2007	0.056	J	0.17		0.80		0.19	
KJ	FTPS	Commercial	Subslab	07-SG-FTPS-1	Soil Gas	4/3/2007	69		190		ND	5.0	5.1	
KJ	FTPS	Commercial	Subslab	07-SG-FTPS-2	Soil Gas	4/3/2007	19		ND	5.0	5.4		7.1	
KJ	FTPS	Commercial	Subslab	07-SG-FTPS-3	Soil Gas	4/3/2007	240	j	4300	j	ND	10	ND	10
KJ	FTPS	Commercial	Subslab	07-SG-FTPS-4	Soil Gas	4/3/2007	42		ND	5.0	ND	5.0	10	
KJ	FTW	Commercial	Main Floor	12-AS-FTWM	Indoor Air*	2/22/2012	2.3		0.35		0.41		1.0	
KJ	FTW	Commercial	Basement	12-AS-FTWB	Indoor Air*	2/22/2012	1.9		0.24		0.50		1.8	
KJ	FTW	Commercial	Subslab	12-SS-FTW-3-RA (Radon only)	Indoor Air*	2/22/2012	96		4.1	j	5.0		4.2	
KJ	FTW	Commercial	Subslab	12-SS-FTW-1	Soil Gas	2/22/2012	110		7.8	j	4.9		4.7	
KJ	FTW	Commercial	Subslab	12-DUP-SS-022212 (Dup of 12-SS-FTW-1)	Soil Gas	2/22/2012	110		7.8	j	4.9		4.7	
KJ	FTW	Commercial	Subslab	12-SS-FTW-2	Soil Gas	2/22/2012	150		4.2		3.6		3.0	
KJ	FTW	Commercial	Subslab	12-SS-FTW-3	Soil Gas	2/22/2012	2,900		58		6.6		2.6	
KJ	FTW	Commercial	Main Floor	12-SS-FTW-3-R (Radon only)	Soil Gas	2/22/2012	2,900		58		6.6		2.6	
KJ	FTW	Commercial	Basement	10-AS-FTWM	Indoor Air*	3/24/2010	2.0		0.20	J	4.6		2.2	
KJ	FTW	Commercial	Basement	10-AS-FTWB	Indoor Air*	3/24/2010	3.0		0.11	J	1.8		2.5	
KJ	FTW	Commercial	Subslab	10-SS-FTW-1-FG (fixed gases only)	Soil Gas	3/24/2010	280		7.7		2.5		26	
KJ	FTW	Commercial	Subslab	10-SS-FTW-1-RA (Radon only)	Soil Gas	3/24/2010	280		7.7		2.5		26	
KJ	FTW	Commercial	Subslab	10-SS-FTW-2-RA (Radon only)	Soil Gas	3/24/2010	14		0.8	J	2.6		26	
KJ	FTW	Commercial	Subslab	10-SS-FTW-3-RA (Radon only)	Soil Gas	3/24/2010	2300		56		5.6		21	
KJ	FTW	Commercial	Main Floor	07-AS-FTWM	Indoor Air*	4/2/2007	4.5		0.42		1.8		0.72	
KJ	FTW	Commercial	Basement	07-AS-FTWB	Indoor Air*	4/2/2007	19		0.42		1.0		1.3	
KJ	FTW	Commercial	Subslab	07-SG-FTW-1	Soil Gas	4/3/2007	8900	j	90	j	ND	25	ND	25
KJ	FTW	Commercial	Subslab	07-SG-FTW-2	Soil Gas	4/3/2007	10000	j	160	j	ND	25	ND	25
KJ	IS	Commercial	Main Floor	11-AS-IS	Indoor Air*	4/7/2011	0.040	J	0.017	J	0.27		0.063	J
KJ	IS	Commercial	Subslab	11-SS-IS-1-RA (Radon only)	Indoor Air*	4/7/2011	110		0.47		16		0.24	0.50
KJ	IS	Commercial	Subslab	11-SS-IS-1-R (Radon only)	Soil Gas	4/7/2011	110		0.47		16		0.24	0.50
KJ	IS	Commercial	Subslab	11-SS-IS-2	Soil Gas	4/7/2011	9.8		2,100		ND	2.4	ND	5.0
KJ	IS	Commercial	Subslab	11-SS-IS-3	Soil Gas	4/7/2011	9.8		1,300		ND	2.4	ND	5.0
KJ	IS	Commercial	Main Floor	08-AS-IS	Indoor Air*	3/5/2008	0.084	J	0.074		0.78		0.17	
DEQ	IS	Commercial	Subslab	08-SG-IS-2S	Soil Gas	3/5/2008	7.2		ND	5.3	ND	3.1	ND	4.3
KJ	IS	Commercial	Subslab	08-SG-IS-1	Soil Gas	3/5/2008	12		2700		ND	25	ND	25
KJ	IS	Commercial	Subslab	08-SG-IS-2	Soil Gas	3/5/2008	8.4		880		ND	25	ND	25
KJ	LS	Commercial	Shop Area	11-AS-LS-1	Indoor Air*	4/7/2011	0.87		0.63		1.8		1.9	
KJ	LS	Commercial	Office area	11-AS-LS-2	Indoor Air*	4/7/2011	0.97		0.26		1.0		1.1	
KJ	LS	Commercial	Mezzanine	11-AS-LS-3	Indoor Air*	4/7/2011	1.0		0.82		2.3		3.7	
KJ	LS	Commercial	Shop Area	11-AS-LS-4	Indoor Air*	4/7/2011	0.77		0.60		1.5		1.7	
KJ	LS	Commercial	Shop Area	11-AS-LS-5	Indoor Air*	4/7/2011	0.75		0.95		2.0		2.4	
KJ	LS	Commercial	Office area	11-AS-LS-6	Indoor Air*	4/7/2011	0.61		1.3	j	1.1		2.0	
KJ	LS	Commercial	Shop Area	D1-AS-040711 (Dup of 11-AS-LS-6)	Indoor Air*	4/7/2011	0.77		0.96	j	2.0		2.5	
KJ	LS	Commercial	Shop Area	11-AS-LS-7	Indoor Air*	4/7/2011	0.23		0.55		0.76		1.8	
KJ	LS	Commercial	Subslab	11-SS-LS-1	Soil Gas	4/7/2011	220		62		2.7		4.4	
KJ	LS	Commercial	Subslab	11-SS-LS-2	Soil Gas	4/7/2011	1,400		19		ND	2.4	ND	5.0
KJ	LS	Commercial	Subslab	11-SS-LS-3	Soil Gas	4/7/2011	130	j	32	j	3.2	j	7.4	j
KJ	LS	Commercial	Subslab	D1-SS-LS-040711 (Duplicate of 11-SS-LS-3)	Soil Gas	4/7/2011	270	j	2.7	j	1.7	j	2.9	j
KJ	LS	Commercial	Subslab	11-SS-LS-4	Soil Gas	4/7/2011	11,000		150		3.5		ND	5.0
KJ	LS	Commercial	Subslab	11-SS-LS-5	Soil Gas	4/8/2011	13,000		120		ND	2.4	ND	5.0
KJ	LS	Commercial	Subslab	11-SS-LS-6	Soil Gas	4/8/2011	4,600		3,400		ND	60	ND	120
KJ	LS	Commercial	Subslab	D1-SS-LS-040811 (Duplicate of 11-SS-LS-6)	Soil Gas	4/8/2011	4,800		3,800		ND	2.4	ND	5.0
KJ	LS	Commercial	Subslab	11-SS-LS-7	Soil Gas	4/8/2011	1,200		940		4.0		130	
KJ	LS	Commercial	Subslab	11-SS-LS-8	Soil Gas	4/8/2011	24	j	150	j	1.1	j	1.6	j

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	LS	Commercial	Subslab	11-SS-LS-9	Soil Gas	4/8/2011	110		70		0.98		4.9	
KJ	LS	Commercial	Subslab	11-SS-LS-10	Soil Gas	4/8/2011	9.5		20		7.8		3.3	
KJ	LS	Commercial	Shop Area	07-AS-LS-1	Indoor Air*	4/18/2007	5.0		1.3		2.6		2.1	
KJ	LS	Commercial	Shop Area	07-AS-LS-2	Indoor Air*	4/18/2007	4.7		1.3		2.6		2.1	
KJ	LS	Commercial	Shop Area	07-AS-LS-3	Indoor Air*	4/18/2007	7.0		2.3		2.9		2.6	
KJ	LS	Commercial	Shop Area	07-AS-LS-4	Indoor Air*	4/18/2007	6.4		1.2		2.9		2.2	
KJ	LS	Commercial	Shop Area	07-AS-LS-5	Indoor Air*	4/18/2007	70		1.7		2.6		2.4	
KJ	LS	Commercial	Shop Area	07-AS-LS-6	Indoor Air*	4/18/2007	4.1		1.5		2.8		2.2	
KJ	LS	Commercial	Shop Area	07-AS-LS-7	Indoor Air*	4/18/2007	3.6		1.7		3.8		5.0	
KJ	LS	Commercial	Shop Area	D1-AS-04-18-07 (Dup of 07-AS-LS-7)	Indoor Air*	4/18/2007	3.6		1.7		3.3		4.2	
KJ	LS	Commercial	Shop Area	07-AS-LS-8	Indoor Air*	4/18/2007	1.8		1.5		2.3		5.1	
KJ	LS	Commercial	Shop Area	07-AS-LS-9	Indoor Air*	4/18/2007	1.3		1.0		14		13	
KJ	LS	Commercial	Shop Area	07-AS-LS-10	Indoor Air*	4/18/2007	6.1		2.0		2.8		3.0	
KJ	LS	Commercial	Mezzanine	07-AS-LS-11	Indoor Air*	4/18/2007	4.1		2.1		2.9		2.4	
KJ	LS	Commercial	Mezzanine	07-AS-LS-12	Indoor Air*	4/18/2007	4.8		1.4		3.9		4.3	
KJ	LS	Commercial	Mezzanine	D2-AS-04-18-07 (Dup of 07-AS-LS-12)	Indoor Air*	4/18/2007	4.7		1.5		4.0		4.6	
KJ	LS	Commercial	Subslab	07-SG-89-8 (Mon. well vapor)	Soil Gas	4/18/2007	82		ND	10	34		36	
KJ	LS	Commercial	Subslab	07-SG-LS-1	Soil Gas	4/18/2007	550		16		50		36	
KJ	LS	Commercial	Subslab	07-SG-LS-2	Soil Gas	4/18/2007	230		ND	25	56		46	
KJ	LS	Commercial	Subslab	07-SG-LS-3	Soil Gas	4/18/2007	220		ND	5.0	5.3		9.6	
KJ	LS	Commercial	Subslab	07-SG-LS-4	Soil Gas	4/18/2007	860		370		11		16	
KJ	LS	Commercial	Subslab	07-SG-LS-5	Soil Gas	4/18/2007	400		53		ND	25	ND	25
KJ	LS	Commercial	Subslab	07-SG-LS-6	Soil Gas	4/18/2007	440		21		5.3		9.3	
KJ	LS	Commercial	Subslab	07-SG-LS-7	Soil Gas	4/18/2007	150		14		ND	5.0	6.7	
DEQ	LS	Commercial	Subslab	07-SG-LS-7S	Soil Gas	4/18/2007	100		64		20		37	
KJ	LS	Commercial	Subslab	07-SG-LS-8	Soil Gas	4/18/2007	12000	E	46		9.1		39	
KJ	LS	Commercial	Subslab	07-SG-LS-9	Soil Gas	4/18/2007	1600		20		8.8		9.0	
KJ	LS	Commercial	Subslab	D2-SG-04-18-07 (Dup of 07-SG-LS-9)	Soil Gas	4/18/2007	1600		21		5.1		6.4	
KJ	LS	Commercial	Subslab	07-SG-LS-10	Soil Gas	4/18/2007	19000		290		ND	250	ND	250
KJ	LS	Commercial	Subslab	07-SG-LS-11	Soil Gas	4/18/2007	26000		770		ND	250	ND	250
KJ	LS	Commercial	Subslab	07-SG-LS-12	Soil Gas	4/18/2007	15000		840		ND	50	ND	50
KJ	LS	Commercial	Subslab	07-SG-LS-13	Soil Gas	4/18/2007	120000		2800		ND	250	ND	250
KJ	LS	Commercial	Subslab	07-SG-LS-14	Soil Gas	4/18/2007	240000		4400		ND	250	ND	250
KJ	LS	Commercial	Subslab	07-SG-LS-15	Soil Gas	4/18/2007	34000		4500		ND	50	ND	50
KJ	LS	Commercial	Subslab	07-SG-LS-16	Soil Gas	4/18/2007	380		990		ND	25	ND	25
KJ	LS	Commercial	Subslab	07-SG-LS-17	Soil Gas	4/18/2007	34000		560		ND	250	ND	250
DEQ	LS	Commercial	Subslab	07-SG-LS-17S	Soil Gas	4/18/2007	12000		380		15		27	
KJ	LS	Commercial	Subslab	07-SG-LS-18	Soil Gas	4/18/2007	23000		420		ND	250	ND	250
KJ	LS	Commercial	Subslab	07-SG-LS-19	Soil Gas	4/18/2007	980		630		8.0		13	
KJ	LS	Commercial	Subslab	D3-SG-04-18-07 (Dup of 07-SG-LS-19)	Soil Gas	4/18/2007	980		670		11		24	
KJ	LS	Commercial	Subslab	07-SG-LS-20	Soil Gas	4/18/2007	280		34		5.7		8.9	
KJ	LS	Commercial	Subslab	07-SG-LS-21	Soil Gas	4/18/2007	550		1200		9.0		9.3	
KJ	LS	Commercial	Subslab	07-SG-LS-22	Soil Gas	4/18/2007	880		8200		ND	50	ND	50
KJ	LS	Commercial	Subslab	07-SG-LS-23	Soil Gas	4/18/2007	730		130		160		54	
KJ	LS	Commercial	Subslab	07-SG-LS-24	Soil Gas	4/18/2007	170		5.1		11		23	
KJ	LS	Commercial	Subslab	07-SG-LS-25	Soil Gas	4/18/2007	290		95		7.8		24	
KJ	LS	Commercial	Subslab	07-SG-LS-26	Soil Gas	4/18/2007	320		13		16		27	
DEQ	LS	Commercial	Subslab	07-SG-LS-26S	Soil Gas	4/18/2007	39		31		24		41	
KJ	LS	Commercial	Subslab	07-SG-LS-27	Soil Gas	4/18/2007	880		670		ND	25	ND	25
KJ	LS	Commercial	Subslab	D4-SG-04-18-07 (Dup of 07-SG-LS-27)	Soil Gas	4/18/2007	560		500		26		27	
KJ	LS	Commercial	Shop Area	06-SG-LS-RI	Soil Gas	4/5/2006								
KJ	LS	Commercial	Subslab	06-SG-LS-1	Soil Gas	4/5/2006	41		110		16		20	
KJ	LS	Commercial	Subslab	06-SG-LS-2	Soil Gas	4/5/2006	8800	B	ND	120	ND	120	ND	120
KJ	LS	Commercial	Subslab	06-SG-LS-3	Soil Gas	4/5/2006	310000	B	23000		ND	500	850	
KJ	LS	Commercial	Shop Area	05-AS-LS	Indoor Air*	12/15/2005	3.5		50					
KJ	RC	Commercial	Main Floor	08-AS-RC	Indoor Air*	3/5/2008	0.076	J	0.089		0.95		0.11	J
KJ	SGP-1		5	07-SGP-1-5	Soil Gas	6/24/2007	140		ND	5.0	ND	5.0	6.9	
KJ	SGP-1		12	07-SGP-1-12	Soil Gas	6/24/2007	120		9.6		28		11	
KJ	SGP-1		17	07-SGP-1-17	Soil Gas	6/24/2007	58		ND	5.0	7.0		8.5	
KJ	SGP-10		5.5	07-SGP-10-5.5	Soil Gas	6/23/2007	180		ND	5.0	9.1		5.8	
KJ	SGP-10		5.5	D6-SGP-10-5.5-062307	Soil Gas	6/23/2007	200		ND	5.0	6.4		6.6	
KJ	SGP-10		12	07-SGP-10-12	Soil Gas	6/23/2007	760		20		14		ND	10
KJ	SGP-10		18.5	07-SGP-10-18.5	Soil Gas	6/23/2007	3700		240		ND	25	ND	25
KJ	SGP-11		5	07-SGP-11-5	Soil Gas	6/23/2007	13000		160		ND	50	ND	50
DEQ	SGP-11		12	07-SGP-11-12S	Soil Gas	6/23/2007	5100		180		16		21	
KJ	SGP-11		12	07-SGP-11-12	Soil Gas	6/23/2007	9700		310		ND	25	ND	25
KJ	SGP-11		19	07-SGP-11-19	Soil Gas	6/23/2007	11000		330		ND	100	ND	100
KJ	SGP-11		19	D5-SGP-11-19-062307	Soil Gas	6/23/2007	11000		310		ND	100	ND	100
KJ	SGP-12		5	07-SGP-12-5	Soil Gas	6/23/2007	290		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-12		12.5	07-SGP-12-12.5	Soil Gas	6/23/2007	960		9.4		5.7		ND	5.0
KJ	SGP-12		12.5	D4-SGP-12-12.5-062307	Soil Gas	6/23/2007	1100		11		ND	5.0	ND	5.0
KJ	SGP-12		20	07-SGP-12-20	Soil Gas	6/23/2007	2300		29		11		5.4	
KJ	SGP-12E		5	SGP-12E-5	Soil Gas	5/6/2008	12		ND	10	26		11	
KJ	SGP-12S		5	SGP-12S-5	Soil Gas	5/6/2008	150		14		130		29	
KJ	SGP-13		5	07-SGP-13-5	Soil Gas	6/23/2007	2200		29		11		ND	5.0
KJ	SGP-13		8.5	07-SGP-13-8.5	Soil Gas	6/23/2007	2900		63		19		5.2	
KJ	SGP-13E		5	SGP-13E-5	Soil Gas	5/7/2008	12		ND	5.0	12		7.0	
KJ	SGP-13N		5	SGP-13N-5	Soil Gas	5/7/2008	40		ND	5.0	39		10	
KJ	SGP-13S		5	SGP-13S-5	Soil Gas	5/7/2008	48		8.4		6.4		7.5	
KJ	SGP-13W		5	SGP-13W-5	Soil Gas	5/7/2008	100		5.2		37		21	
DEQ	SGP-13W		5	08-SGP-13W5 DEQ	Soil Gas	5/7/2008	91		ND	2.7	23		17	

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	SGP-16		5	07-SGP-16-5	Soil Gas	6/24/2007	26		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-16		9.5	07-SGP-16-9.5	Soil Gas	6/24/2007	30		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-16		9.5	D9-SGP-16-9.5-062407	Soil Gas	6/24/2007	87		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-16		14	07-SGP-16-14	Soil Gas	6/24/2007	13		ND	5.0	7.3		5.8	
KJ	SGP-17		5	07-SGP-17-5	Soil Gas	6/24/2007	51		ND	5.0	16		6.4	
KJ	SGP-17		5	D8-SGP-17-5-062407	Soil Gas	6/24/2007	84		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-17		12.5	07-SGP-17-12.5	Soil Gas	6/24/2007	29		21		6.4		16	
KJ	SGP-17		18	07-SGP-17-18	Soil Gas	6/24/2007	16		ND	5.0	ND	5.0	5.7	
KJ	SGP-18		5	07-SGP-18-5	Soil Gas	6/24/2007	66		6.0		7.4		7.2	
KJ	SGP-18		12	07-SGP-18-12	Soil Gas	6/24/2007	25		ND	5.0	5.9		5.1	
KJ	SGP-18		19	07-SGP-18-19	Soil Gas	6/24/2007	220		ND	5.0	ND	5.0	6.1	
KJ	SGP-19		5	07-SGP-19-5	Soil Gas	6/24/2007	53		ND	5.0	5.1		5.6	
KJ	SGP-19		11	07-SGP-19-11	Soil Gas	6/24/2007	75		9.2		7.5		6.5	
KJ	SGP-19		17	07-SGP-19-17	Soil Gas	6/24/2007	71		ND	5.0	11		14	
KJ	SGP-1W		5	SGP-1W-5	Soil Gas	5/6/2008	13		12		11		ND	10
DEQ	SGP-1W		5	08-SGP-1W5 DEQ	Soil Gas	5/6/2008	ND	2.8	8.5		4.7		ND	2.8
KJ	SGP-2		5	07-SGP-2-5	Soil Gas	6/24/2007	21		ND	5.0	22		19	
KJ	SGP-2		11	07-SGP-2-11	Soil Gas	6/24/2007	11		ND	5.0	7.5		6.2	
KJ	SGP-2		17	07-SGP-2-17	Soil Gas	6/24/2007	6.3		ND	5.0	6.8		7.5	
DEQ	SGP-20		5	07-SGP-20-5S	Soil Gas	6/23/2007	ND	6.8	ND	5.4	8.6		23	
KJ	SGP-20		5	07-SGP-20-5	Soil Gas	6/23/2007	60		ND	5.0	9.2		5.7	
KJ	SGP-20		12	07-SGP-20-12	Soil Gas	6/23/2007	47		ND	5.0	12		29	
KJ	SGP-20		19	07-SGP-20-19	Soil Gas	6/23/2007	46		ND	5.0	57		23	
KJ	SGP-21		23.5	08-SGP-21-23.5	Soil Gas	4/22/2008	830		8.2		ND	5.0	ND	5.0
KJ	SGP-21		5	07-SGP-21-5	Soil Gas	6/23/2007	330		ND	5.0	12		ND	5.0
KJ	SGP-21		14.5	07-SGP-21-14.5	Soil Gas	6/23/2007	640		5.3		9.0		ND	5.0
KJ	SGP-22		5	07-SGP-22-5	Soil Gas	6/23/2007	320		ND	5.0	5.4		ND	5.0
KJ	SGP-22		13	07-SGP-22-13	Soil Gas	6/23/2007	450		5.5		9.4		ND	5.0
KJ	SGP-22		22	07-SGP-22-22	Soil Gas	6/23/2007	460		ND	5.0	13		ND	5.0
KJ	SGP-23		23.5	08-SGP-23-23.5	Soil Gas	4/22/2008	840		5.1		ND	5.0	ND	5.0
KJ	SGP-23		5	07-SGP-23-5	Soil Gas	6/23/2007	58		ND	5.0	15		ND	5.0
KJ	SGP-23		14.5	07-SGP-23-14.5	Soil Gas	6/23/2007	370		ND	5.0	12		5.4	
KJ	SGP-24		25	08-SGP-24-25	Soil Gas	4/22/2008	37		7.0		ND	5.0	ND	5.0
KJ	SGP-24		5	07-SGP-24-5	Soil Gas	6/23/2007	55		ND	5.0	14		ND	5.0
KJ	SGP-24		15	07-SGP-24-15	Soil Gas	6/23/2007	31		ND	5.0	6.4		ND	5.0
KJ	SGP-25		5	07-SGP-25-5	Soil Gas	6/23/2007	42		ND	5.0	9.9		11	
KJ	SGP-25		12.5	07-SGP-25-12.5	Soil Gas	6/23/2007	140		ND	5.0	5.4		ND	5.0
DEQ	SGP-25		20	07-SGP-25-20S	Soil Gas	6/23/2007	7.5		ND	5.2	8.6		21	
KJ	SGP-25		20	07-SGP-25-20	Soil Gas	6/23/2007	120		ND	5.0	8.2		6.0	
KJ	SGP-26		5	07-SGP-26-5	Soil Gas	6/23/2007	34		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-26		12.5	07-SGP-26-12.5	Soil Gas	6/23/2007	35		ND	5.0	11		5.7	
KJ	SGP-26		20	07-SGP-26-20	Soil Gas	6/23/2007	49		ND	5.0	7.8		ND	5.0
KJ	SGP-27		3	07-SGP-27-3	Soil Gas	6/23/2007	88		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-3		5	07-SGP-3-5	Soil Gas	6/24/2007	25		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-3		11.5	07-SGP-3-11.5	Soil Gas	6/24/2007	31		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-3		18	07-SGP-3-18	Soil Gas	6/24/2007	36		30		5.7		ND	5.0
KJ	SGP-31		3	07-SGP-31-3	Soil Gas	6/25/2007	910		26		ND	5.0	ND	5.0
KJ	SGP-31E		5	SGP-31E-5	Soil Gas	5/7/2008	100		23		33		ND	5.0
KJ	SGP-31N		5	SGP-31N-5	Soil Gas	5/7/2008	1900		170		62		9.2	
KJ	SGP-31S		5	SGP-31S-5	Soil Gas	5/7/2008	96		19		21		ND	5.0
DEQ	SGP-31S		5	08-SGP-31S5 DEQ	Soil Gas	5/7/2008	75		16		15		3.2	
KJ	SGP-31W		5	SGP-31W-5	Soil Gas	5/7/2008	270		160		7.2		ND	5.0
DEQ	SGP-31W		5	08-SGP-31W5 DEQ	Soil Gas	5/7/2008	200		220		ND	2.9	ND	2.9
DEQ	SGP-32		5	07-SGP-32-5S	Soil Gas	6/25/2007	3100		180		11		25	
KJ	SGP-32		5	07-SGP-32-5	Soil Gas	6/25/2007	5000		280		ND	25	ND	25
KJ	SGP-32		9.5	07-SGP-32-9.5	Soil Gas	6/25/2007	5700		320		ND	50	ND	50
KJ	SGP-32		9.5	D11-SGP-32-9.5-062507	Soil Gas	6/25/2007	6200		360		ND	50	ND	50
KJ	SGP-33		5	07-SGP-33-5	Soil Gas	6/22/2007	1500		110		16		7.1	
KJ	SGP-33		9.5	07-SGP-33-9.5	Soil Gas	6/22/2007	2700		300		19		9.7	
KJ	SGP-33		14	07-SGP-33-14	Soil Gas	6/22/2007	3700		530		14		7.4	
KJ	SGP-34		6	07-SGP-34-6	Soil Gas	6/22/2007	3100		110		ND	10	ND	10
DEQ	SGP-34		12	07-SGP-34-12S	Soil Gas	6/22/2007	170		160		19		37	
KJ	SGP-34		12	07-SGP-34-12	Soil Gas	6/22/2007	2700		210		13		12	
KJ	SGP-34		19	07-SGP-34-19	Soil Gas	6/22/2007	3100		290		ND	25	ND	25
KJ	SGP-34		19	D2-SGP-34-19-062207	Soil Gas	6/22/2007	3100		290		ND	25	ND	25
KJ	SGP-35		5	07-SGP-35-5	Soil Gas	6/22/2007	1300		20		9.7		5.3	
KJ	SGP-35		12	07-SGP-35-12	Soil Gas	6/22/2007	1300		76		12		8.6	
KJ	SGP-35		19	07-SGP-35-19	Soil Gas	6/22/2007	1300		130		8.2		7.0	
KJ	SGP-36		5	07-SGP-36-5	Soil Gas	6/25/2007	250		ND	5.0	28		19	
KJ	SGP-36		11.5	07-SGP-36-11.5	Soil Gas	6/25/2007	320		6.2		7.8		ND	5.0
KJ	SGP-36		17.5	07-SGP-36-17.5	Soil Gas	6/25/2007	330		16		ND	5.0	ND	5.0
KJ	SGP-37		5	07-SGP-37-7.5	Soil Gas	6/22/2007	15		ND	5.0	5.5		7.3	
KJ	SGP-37		13	07-SGP-37-13	Soil Gas	6/22/2007	33		ND	5.0	ND	5.0	6.9	
KJ	SGP-37		18	07-SGP-37-18	Soil Gas	6/22/2007	56		ND	5.0	14		7.2	
KJ	SGP-38		5	07-SGP-38-5	Soil Gas	6/22/2007	12		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-38		11	07-SGP-38-11	Soil Gas	6/22/2007	14		ND	5.0	ND	5.0	5.1	
KJ	SGP-38		17	07-SGP-38-17	Soil Gas	6/22/2007	76		ND	5.0	ND	5.0	28	
KJ	SGP-38		17	D1-SGP-38-17-062207	Soil Gas	6/22/2007	17		ND	5.0	ND	5.0	ND	5.0

**INDOOR AIR AND SOIL GAS ANALYTICAL RESULTS**  
**Burlington Northern Livingston Shop Complex**

							tetrachloroethene		trichloroethene		benzene		ethylbenzene	
<i>Residential / Industrial Site-Specific Cleanup Levels (Indoor Air Only):</i>							42 / 105		2.0 / 7.0		2.2 / 4.0		2.3 / 11	
Company	Location ID	Type	Sample Location or Depth (ft)	Sample ID	Matrix (*Commercial Cleanup Level)	Sample Date	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.	Results	DL/Qual.
KJ	SGP-39		5	07-SGP-39-5	Soil Gas	6/22/2007	15		ND	5.0	ND	5.0	ND	5.0
DEQ	SGP-39		11	07-SGP-39-11S	Soil Gas	6/22/2007	ND	6.8	ND	5.4	11		22	
KJ	SGP-39		11	07-SGP-39-11	Soil Gas	6/22/2007	5.8		ND	5.0	7.4		12	
KJ	SGP-39		17	07-SGP-39-17	Soil Gas	6/22/2007	10		ND	5.0	ND	5.0	6.1	
KJ	SGP-4		7	07-SGP-4-7	Soil Gas	6/24/2007	1600		4200		ND	50	ND	50
KJ	SGP-4		12.5	07-SGP-4-12.5	Soil Gas	6/24/2007	1400		2700		ND	50	ND	50
KJ	SGP-4		18.5	07-SGP-4-18.5	Soil Gas	6/24/2007	1000		660		ND	25	ND	25
KJ	SGP-40		17.5	08-SGP-40-17.5	Soil Gas	4/22/2008	8.9		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-40		5	07-SGP-40-5	Soil Gas	6/22/2007	15		ND	5.0	19		7.4	
KJ	SGP-40		11.5	07-SGP-40-11.5	Soil Gas	6/22/2007	6.0		ND	5.0	ND	5.0	5.2	
KJ	SGP-41		8.5	07-SGP-41-8.5	Soil Gas	6/22/2007	33		ND	5.0	ND	5.0	9.0	
KJ	SGP-41		13.5	07-SGP-41-13.5	Soil Gas	6/22/2007	36		ND	5.0	ND	5.0	8.3	
KJ	SGP-41		18.5	07-SGP-41-18.5	Soil Gas	6/22/2007	65		ND	5.0	6.6		7.2	
DEQ	SGP-42		5	07-SGP-42-5S	Soil Gas	6/22/2007	24		ND	3.8	8.3		21	
KJ	SGP-42		5	07-SGP-42-5	Soil Gas	6/22/2007	57		ND	5.0	8.0		5.6	
KJ	SGP-42		11	07-SGP-42-11	Soil Gas	6/22/2007	66		ND	5.0	12		8.1	
KJ	SGP-42		11	D3-SGP-42-11-062207	Soil Gas	6/22/2007	72		ND	5.0	7.3		ND	5.0
KJ	SGP-42		17	07-SGP-42-17	Soil Gas	6/22/2007	76		ND	5.0	12		27	
KJ	SGP-43		5	07-SGP-43-5	Soil Gas	6/22/2007	170		ND	5.0	15		15	
KJ	SGP-43		10.5	07-SGP-43-10.5	Soil Gas	6/22/2007	190		5.5		16		7.6	
KJ	SGP-43		16	07-SGP-43-16	Soil Gas	6/22/2007	260		13		39		11	
KJ	SGP-43S		5	SGP-43S-5	Soil Gas	5/7/2008	58		ND	5.0	26		12	
KJ	SGP-5		5	07-SGP-5-5	Soil Gas	6/24/2007	2800		180		ND	25	41	
KJ	SGP-5		12.5	07-SGP-5-12.5	Soil Gas	6/24/2007	3300		110		ND	25	ND	25
KJ	SGP-5		19.5	07-SGP-5-19.5	Soil Gas	6/24/2007	4200		130		ND	25	ND	25
KJ	SGP-6		5	07-SGP-6-5	Soil Gas	6/24/2007	3700		350		ND	25	ND	25
KJ	SGP-6		13	07-SGP-6-13	Soil Gas	6/24/2007	4900		300		ND	25	ND	25
KJ	SGP-6		21	07-SGP-6-21	Soil Gas	6/24/2007	5400		140		ND	50	ND	50
KJ	SGP-6		21	D10-SGP-6-21-062407	Soil Gas	6/24/2007	6000		160		ND	52	ND	52
KJ	SGP-7		5	07-SGP-7-5	Soil Gas	6/24/2007	130		ND	5.0	ND	5.0	ND	5.0
KJ	SGP-7		11	07-SGP-7-11	Soil Gas	6/24/2007	95		11		5.3		ND	5.0
KJ	SGP-7		17	07-SGP-7-17	Soil Gas	6/24/2007	87		33		5.6		5.3	
KJ	SGP-7		17	D7-SGP-7-17-062407	Soil Gas	6/24/2007	77		46		6.6		14	
KJ	SGP-8		5	07-SGP-8-5	Soil Gas	6/24/2007	310		12		7.6		6.4	
KJ	SGP-8		10.5	07-SGP-8-10.5	Soil Gas	6/24/2007	680		48		9.7		15	
KJ	SGP-8		16	07-SGP-8-16	Soil Gas	6/24/2007	1800		290		15		ND	10
KJ	SGP-9		5	07-SGP-9-5	Soil Gas	6/23/2007	140		ND	5.0	10		ND	5.0
KJ	SGP-9		11	07-SGP-9-11	Soil Gas	6/23/2007	550		ND	5.0	6.4		8.2	
KJ	SGP-9		17	07-SGP-9-17	Soil Gas	6/23/2007	4700		71		ND	25	ND	25
KJ	SGP-CE		5	SGP-CE-5	Soil Gas	5/6/2008	280		33		190		35	
KJ	SGP-CN		5	SGP-CN-5	Soil Gas	5/6/2008	820		55		200		32	
KJ	SGP-CS		5	SGP-CS-5	Soil Gas	5/6/2008	55		40		17		28	
KJ	SGP-CW		5	SGP-CW-5	Soil Gas	5/6/2008	370		18		70		26	
DEQ	SGP-CW		5	08-SGP-6W5 DEQ	Soil Gas	5/6/2008	230		9.8		43		11	

Notes:

**Concentrations reported in micrograms per cubic meter (µg/m³), unless otherwise stated.**

Data validation qualifiers have been added as appropriate. Data validation qualifiers used are included in the list below.

"DL" denotes method reporting limit. "Qual" denotes data qualifier. Data Qualifiers included the following:

- "J" indicates an estimated value below the method reporting limit but greater than the instrument detection limit. However, canisters were certified only to the method reporting limit, so J-flagged concentrations may be false positives.
- "B" indicates that the analyte was also detected in the associated field blank sample.
- "E" indicates the instrument calibration range was exceeded.
- "j" indicates data may be biased based on data validation (see Appendix E). Only detected values have been qualified.

"ND" denotes not detected at or above the corresponding method reporting limit.

Blank cells indicate that the sample was not analyzed for that chemical.

**Reported values are shown in bold.**

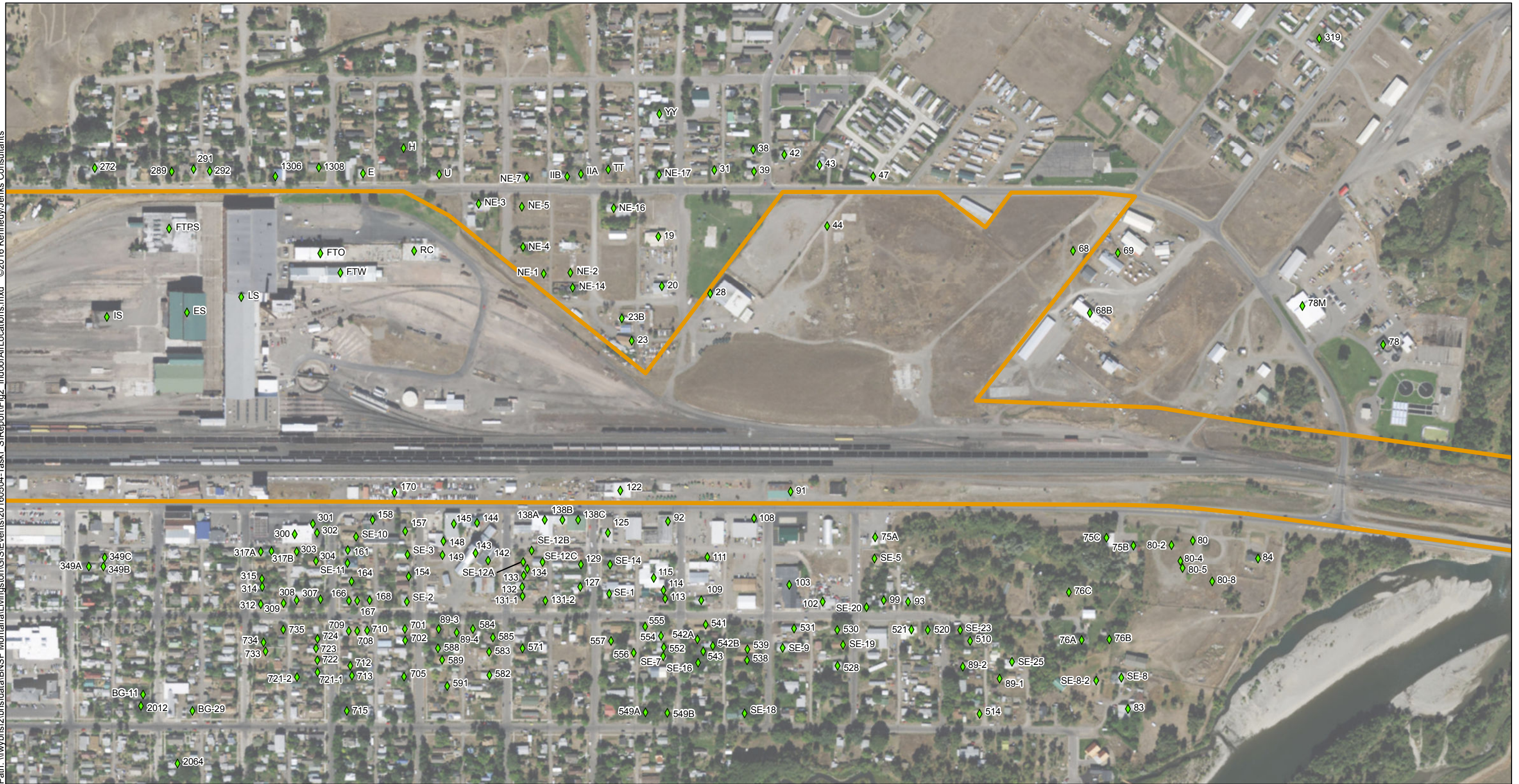
- µg/L = micrograms per liter
- pCi/L = picocuries per liter
- ppmv = parts per million by volume

# Figures

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Path: \\fwybnstf2\bnstfdata\BNSF\_Montana\Livingston\GIS\Events\20160504-Task1\_SIR\Report\Fig2\_IndoorAirLocations.mxd ©2016 Kennedy/Jenks Consultants



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

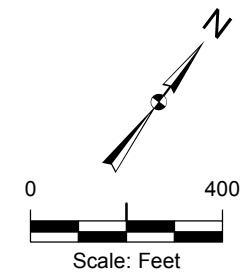
**Legend**

- ◆ Indoor Air Sample Location
- ▭ Approximate Railyard Property Boundary

**Kennedy/Jenks Consultants**

BN Livingston Shop Complex  
Livingston, Montana

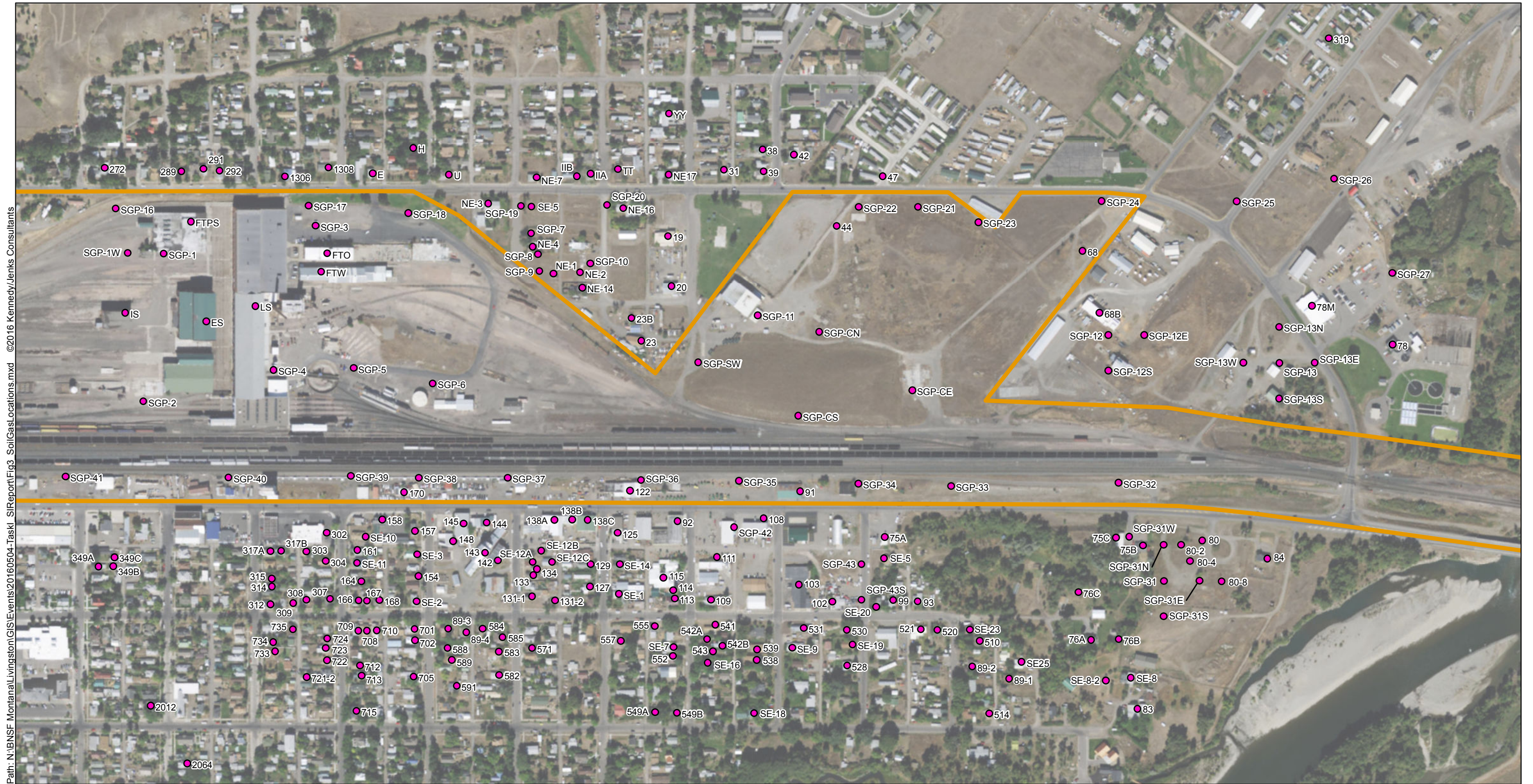
**Indoor Air Sampling Locations**



1696021\*16  
August 2016

**Figure 2**





Path: N:\BNSF Montana\Livingston\GIS\Events\20160504-Task1\_SIR\Report\Fig3\_SoilGasLocations.mxd ©2016 Kennedy/Jenks Consultants

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Legend**

- Soil Gas Sample Location
- Approximate Railyard Property Boundary

**Kennedy/Jenks Consultants**

BN Livingston Shop Complex  
Livingston, Montana

**Soil Gas Sampling Locations**

1696021\*16  
August 2016

**Figure 3**

