

English Station
Summary of Soil Analytical Data
Oil ASTs
(AOC 8)

PERIOD: From 05/29/1998 thru 03/31/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust./Comm. Criteria	GB Mobility Criteria	MW-016 ES-MW16 (6-8)	MW-017D ESMW17D 26-28	MW-017S ES-MW17 (4-6)	SS-001 ES SS1S 0
	DATE	CTDEP Jan. 1996	CTDEP Jan. 1996	05/29/1998	06/10/1998	05/29/1998	06/19/1998
	DEPTH (ft)			7.00	27.00	5.00	0.00
Lead (SPLP)	(mg/l)		0.15	0.005U	0.005U	0.005U	0.005U
Selenium (SPLP)	(mg/l)		0.5	0.01U	0.02	0.01U	0.005U

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Oil ASTs
 (AOC 8)

PERIOD: From 05/29/1998 thru 03/31/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indus/Comm.	GB Mobility	SS-001	TB-021	TB-024	TB-025
	SAMPLE ID	Criteria	Criteria	ES SS1D 0.5	ES-TB21 (0-2)	ES-TB24 (6-8)	ES-TB25 (2-4)
	DATE	CTDEP Jan. 1998	CTDEP Jan. 1998	06/19/1998	05/29/1998	05/29/1998	05/29/1998
	DEPTH (ft)			0.50	1.00	7.00	3.00
Lead (SPLP)	(mg/l)		0.15	0.058J	0.005U	0.005U	0.007
Selenium (SPLP)	(mg/l)		0.5	0.005U	0.01U	0.01U	0.01U

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 RSR exceedences are bracketed.

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English Station
 Summary of Soil Analytical Data
 Oil ASTs
 (AOC 8)

PERIOD: From 05/29/1998 thru 03/31/2000 - Inclusive
 SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-211	TB-212
	SAMPLE ID			TB-211(0-2)	TB-212(2-4)
	DATE			03/30/2000	03/30/2000
	DEPTH (ft)			1.00	3.00
Lead (SPLP)	(mg/l)		0.15	<0.005	<0.005
Selenium (SPLP)	(mg/l)		0.5	<0.01	<0.01

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Capacitors/Transformers
(AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust./Comm. Criteria	GB Mobility Criteria	CS-008 ES C56 0	HA-01 HA-01	HA-02 HA-02	PCB-01 ES PCB1 (1)
	DATE	GTDEP Jan. 1996	CTDEP Jan. 1998	06/19/1998	03/30/2000	03/30/2000	06/11/1998
	DEPTH (ft)			0.00	1.65	0.95	1.00
PCB's	(mg/kg)	10		1.0U	[29]	<1.0	[440]
TPH	(mg/kg)	2500	2500	NA	NA	NA	NA
Arsenic	(mg/kg)	10		NA	NA	[230]	NA

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RSR exceedences are bracketed.

[] = Greater than Action Level NA = Not analyzed

English Station
Summary of Soil Analytical Data
Capacitors/Transformers
(AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE		GB Mobility Criteria CTDEP Jan. 1996	PCB-02	PCB-03	PCB-04	PCB-05
	SAMPLE ID	Indust./Comm.		ES PCB2 (1.5)	ES PCB3 (0.2)	ES PCB4 (0.2)	ES PCB5 (0.5)
	DATE	Criteria		06/11/1998	06/11/1998	06/11/1998	06/11/1998
	DEPTH (ft)	CTDEP Jan. 1996		1.50	0.20	0.20	0.50
PCB's	(mg/kg)	10		[2300]	1.0U	1.0U	1.0U
TPH	(mg/kg)	2500	2500	58	[9203]	[11235]	165
Arsenic	(mg/kg)	10		NA	NA	NA	NA

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English Station
 Summary of Soil Analytical Data
 Capacitors/Transformers
 (AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive
 SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1998	PCB-06	PCB-07	PCB-08	PCB-09
	SAMPLE ID			ES PCB6 (0.2)	ES PCB7 (0.5)	ES PCB8 (0.8)	ES PCB9 (0.8)
	DATE			06/11/1998	06/11/1998	06/11/1998	06/11/1998
	DEPTH (ft)			0.20	0.50	0.80	0.80
PCB's	(mg/kg)	10		4	1.0U	1.0U	1
TPH	(mg/kg)	2500	2500	[9091]	600	33	32
Arsenic	(mg/kg)	10		NA	NA	NA	NA

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English Station
 Summary of Soil Analytical Data
 Capacitors/Transformers
 (AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	PCB-10 ES PCB10 (0.5) 06/11/1998 0.50	PCB-11 ES PCB11 (1) 06/11/1998 1.00	PCB-12 ES PCB12 (1) 06/11/1998 1.00	PCB-13 ES PCB13 (0.5) 06/11/1998 0.50
PCB's	(mg/kg)	10		1.0U	1.0U	1.0U	1.0U
TPH	(mg/kg)	2500	2500	25U	25U	25U	27
Arsenic	(mg/kg)	10		NA	NA	NA	NA

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English Station
Summary of Soil Analytical Data
Capacitors/Transformers
(AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	PCB-14 ES PCB14 (1) 06/11/1998 1.00	PCB-15 ES PCB15 (0.5) 06/11/1998 0.50	PCB-16 ES PCB16 (1) 06/11/1998 1.00	PCB-17 ES PCB17 (0.5) 06/11/1998 0.50
PCB's	(mg/kg)	10		1.0U	1.0U	1.0U	2
TPH	(mg/kg)	2500	2500	118	25U	25U	25U
Arsenic	(mg/kg)	10		NA	NA	NA	NA

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RSR exceedences are bracketed.

English Station
Summary of Soil Analytical Data
Capacitors/Transformers
(AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust./Comm. Criteria	GB Mobility Criteria	PCB-18 ES PCB18 (1)	PCB-18 ES PCB18A (2)	PCB-19 ES PCB19 (0.5)	PCB-19 ES PCB19A (2.5)
	DATE	CTDEP Jan. 1996	CTDEP Jan. 1996	06/11/1998	06/11/1998	06/11/1998	06/11/1998
	DEPTH (ft)			1.00	2.00	0.50	2.50
PCB's	(mg/kg)	10		1.0U	1.0U	1.0U	1.0U
TPH	(mg/kg)	2500	2500	25U	25U	28	25
Arsenic	(mg/kg)	10		NA	NA	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

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English Station
 Summary of Soil Analytical Data
 Capacitors/Transformers
 (AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive
 SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust./Comm. Criteria	GB Mobility Criteria	PCB-20 ES PCB20 0.7	PCB-21 ESPCB21 0.5	PCB-31 PCB-31	PCB-32 PCB-32
	DATE	CTDEP Jan. 1996	CTDEP Jan. 1996	06/18/1998	06/18/1998	07/07/1998	07/07/1998
	DEPTH (ft)			0.70	0.50	0.00	0.00
PCB's	(mg/kg)	10		1.0U	1.0U	[94]	[53]
TPH	(mg/kg)	2500	2500	25UJ	25UJ	382	120
Arsenic	(mg/kg)	10		NA	NA	NA	NA

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English Station
 Summary of Soil Analytical Data
 Capacitors/Transformers
 (AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		PCB-33	PCB-34	PCB-35	SS-101
	SAMPLE ID	Indust./Comm.	PCB-33	PCB-34	PCB-35	SS-01
	DATE	Criteria	Criteria	Criteria	Criteria	Criteria
	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996	07/07/1998	07/07/1998	07/07/1998
			0.00	0.00	0.00	0.15
PCB's	(mg/kg)	10	1.0U	1.0U	1.0U	<1.0
TPH	(mg/kg)	2500	25U	25U	41	NA
Arsenic	(mg/kg)	10	NA	NA	NA	[150]

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English Station
 Summary of Soil Analytical Data
 Capacitors/Transformers
 (AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust./Comm. Criteria	GB Mobility Criteria	SS-102 SS-02 03/30/2000	SS-103 SS-03 03/30/2000	TB-115 TB-115 (5-7) 07/01/1998	TB-116 TB-116 (5-7) 07/01/1998
	DATE	CTDEP Jan. 1996	CTDEP Jan. 1996	0.15	0.15	6.00	6.00
	DEPTH (ft)						
PCB's	(mg/kg)	10		[23]	<1.0	1.0U	1.0U
TPH	(mg/kg)	2500	2500	NA	NA	25U	NA
Arsenic	(mg/kg)	10		5.4	[116]	NA	NA

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English Station
Summary of Soil Analytical Data
Capacitors/Transformers
(AOC 9)

PERIOD: From 06/11/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm. Criteria	GB Mobility Criteria	TB-214	TB-215
	SAMPLE ID			TB-214(3-3.3)	TB-215(2-2.2)
	DATE			03/30/2000	03/30/2000
	DEPTH (ft)			3.15	2.10
PCB's	(mg/kg)	10		2	4
TPH	(mg/kg)	2500	2500	NA	NA
Arsenic	(mg/kg)	10		NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Former Interior Chemical Storage Areas
(AOC 10)

PERIOD: From 05/27/1998 thru 07/01/1998 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1998	GB Mobility Criteria CTDEP Jan. 1998	MW-013	MW-014D	MW-014S	MW-020
	SAMPLE ID			ES-MW13 (13-15)	ES MW14D(26-28)	ES-MW14 (1-3)	ES-MW20 (11-13)
	DATE			06/01/1998	06/11/1998	06/01/1998	05/27/1998
	DEPTH (ft)			14.00	27.00	2.00	12.00
Acenaphthene	(ug/kg)	2500000	84000	100U	218.0	100U	100U
Acenaphthylene	(ug/kg)	2500000	84000	100U	128.0	100U	100U
Anthracene	(ug/kg)	2500000	400000	100U	562.0	100U	100U
Benzo(a)anthracene	(ug/kg)	7800	1000	100U	1023.0	260.0	100U
Benzo(a)pyrene	(ug/kg)	1000	1000	100U	581.0	312.0	100U
3,4-Benzofluoranthene	(ug/kg)	7800	1000	100U	550.0	100U	100U
Benzo(g,h,i)perylene	(ug/kg)	2500000	42000	500U	1081.0	500U	500U
Benzo(k)fluoranthene	(ug/kg)	78000	1000	100U	550.0	100U	100U
Chrysene	(ug/kg)	780000	960	100U	721.0	297.0	100U
Fluoranthene	(ug/kg)	2500000	56000	115.0	1417.0	573.0	100U
Fluorene	(ug/kg)	2500000	56000	100U	239.0	100U	100U
Naphthalene	(ug/kg)	2500000	56000	100U	178.0	100U	100U
Phenanthrene	(ug/kg)	2500000	40000	100U	1200.0	295.0	100U
Pyrene	(ug/kg)	2500000	40000	121.0	2205.0	534.0	100U
TPH	(mg/kg)	2500	2500	45	588	140	29J
Arsenic	(mg/kg)	10		1.0U	[10.5]	6.7	4.3
Barium	(mg/kg)	140000		43	42	79	38
Cadmium	(mg/kg)	1000		0.5U	0.5U	0.5U	0.5U
Chromium	(mg/kg)			15.7	23.9J	14.2	10.2
Lead	(mg/kg)	1000		76.0	70.0	80.0	11.0
Mercury	(mg/kg)	610		1.41	0.83	0.15	0.02U

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English Station
Summary of Soil Analytical Data
Former Interior Chemical Storage Areas
(AOC 10)

PERIOD: From 05/27/1998 thru 07/01/1998 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		MW-013	MW-014D	MW-014S	MW-020	
	SAMPLE ID	Indust./Comm.	GB Mobility	ES-MW13 (13-15)	ES-MW14D(26-28)	ES-MW14 (1-3)	ES-MW20 (11-13)
	DATE	Criteria	Criteria	06/01/1998	06/11/1998	06/01/1998	05/27/1998
	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996	14.00	27.00	2.00	12.00
Selenium	(mg/kg)	10000		0.7	1.4	0.5U	0.5U
Silver	(mg/kg)	10000		0.2U	0.4	0.2U	0.2U

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RSR exceedences are bracketed.

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English Station
Summary of Soil Analytical Data
Former Interior Chemical Storage Areas
(AOC 10)

PERIOD: From 05/27/1998 thru 07/01/1998 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria	GB Mobility Criteria	TB-018A	TB-108	TB-108
	SAMPLE ID			ES-TB18A(16-18)	TB-108 (8-10)	TB-108 (12-14)
	DATE			05/28/1998	07/01/1998	07/01/1998
	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996	17.00	9.00	13.00
Acenaphthene	(ug/kg)	2500000	84000	10000U	10000U	1000U
Acenaphthylene	(ug/kg)	2500000	84000	10000U	10000U	1000U
Anthracene	(ug/kg)	2500000	400000	10000U	10000U	1000U
Benzo(a)anthracene	(ug/kg)	7800	1000	[10000]U	[10000]U	1000U
Benzo(a)pyrene	(ug/kg)	1000	1000	[10000]U	[10000]U	[1000]U
3,4-Benzofluoranthene	(ug/kg)	7800	1000	[10000]U	[10000]U	1000U
Benzo(g,h,i)perylene	(ug/kg)	2500000	42000	[50000]U	[50000]U	5000U
Benzo(k)fluoranthene	(ug/kg)	78000	1000	[10000]U	[10000]U	1000U
Chrysene	(ug/kg)	780000	960	[10000]U	[10000]U	[1000]U
Fluoranthene	(ug/kg)	2500000	56000	59574.0J	10000U	1691.0
Fluorene	(ug/kg)	2500000	56000	10000U	10000U	1000U
Naphthalene	(ug/kg)	2500000	56000	10000U	10000U	1000U
Phenanthrene	(ug/kg)	2500000	40000	38833.0	10000U	1483.0
Pyrene	(ug/kg)	2500000	40000	61277.0	10000U	1658.0
TPH	(mg/kg)	2500	2500	1492	[4162]	1542
Arsenic	(mg/kg)	10		[10.7]J	NA	NA
Barium	(mg/kg)	140000		10.2	NA	NA
Cadmium	(mg/kg)	1000		5.0	NA	NA
Chromium	(mg/kg)			90.4	NA	NA
Lead	(mg/kg)	1000		350	NA	NA
Mercury	(mg/kg)	610		3.46	NA	NA

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English Station
 Summary of Soil Analytical Data
 Former Interior Chemical Storage Areas
 (AOC 10)

PERIOD: From 05/27/1998 thru 07/01/1998 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm Criteria	GB Mobility Criteria	TB-018A	TB-108	TB-108
	SAMPLE ID			ES-TB18A(16-18)	TB-108 (8-10)	TB-108 (12-14)
	DATE			05/28/1998	07/01/1998	07/01/1998
	DEPTH (ft)			CTDEP Jan. 1996	CTDEP Jan. 1996	17.00
Selenium	(mg/kg)	10000		0.5U	NA	NA
Silver	(mg/kg)	10000		4.6	NA	NA

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	MW-004D	MW-004S	MW-005	MW-008
	SAMPLE ID			ESMW4D 36-40	ES-MW45 (11-13)	ES-MW5 (2-4)	ESMW6 5-9
	DATE			06/10/1998	05/27/1998	05/26/1998	06/09/1998
	DEPTH (ft)			38.00	12.00	3.00	7.00
Acenaphthene	(ug/kg)	2500000	84000	100U	100U	100U	100U
Acenaphthylene	(ug/kg)	2500000	84000	100U	100U	100U	122.0
Anthracene	(ug/kg)	2500000	400000	100U	100U	100U	100U
Benzo(a)anthracene	(ug/kg)	7800	1000	100U	100U	100U	633.0
Benzo(a)pyrene	(ug/kg)	1000	1000	100UJ	100U	100U	572.0
3,4-Benzofluoranthene	(ug/kg)	7800	1000	100U	100U	100U	432.0
Benzo(k)fluoranthene	(ug/kg)	78000	1000	100U	100U	100U	222.0
Chrysene	(ug/kg)	780000	960	100U	100U	100U	100U
Fluoranthene	(ug/kg)	2500000	56000	100U	100U	100U	662.0
Phenanthrene	(ug/kg)	2500000	40000	100U	100U	100U	464.0
Pyrene	(ug/kg)	2500000	40000	100U	100U	100U	919.0
TPH	(mg/kg)	2500	2500	25U	25U	1384J	974
Arsenic	(mg/kg)	10		1.0UJ	[39.4]	[47.2]	[68.6]
Barium	(mg/kg)	140000		24	30	50	32
Cadmium	(mg/kg)	1000		0.5U	0.5U	0.5U	24.3
Chromium	(mg/kg)			4.9	18.1	9.4	30.8
Lead	(mg/kg)	1000		2.3	43.7	33.1	470
Mercury	(mg/kg)	610		0.02U	0.10	0.06	0.59
Selenium	(mg/kg)	10000		0.6	0.5U	1.0	4.2

Only those parameters detected are shown.
RSR exceedences are bracketed.

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English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	MW-007	MW-009A	MW-010	MW-022
	SAMPLE ID			ES-MW7 (7-9)	ES-MW9A(0-2)	ESMW10 9-11	ESMW22 7-9
	DATE			06/04/1998	05/26/1998	06/09/1998	06/09/1998
	DEPTH (ft)			8.00	1.00	10.00	8.00
Acenaphthene	(ug/kg)	2500000	84000	100U	100U	181.0	100U
Acenaphthylene	(ug/kg)	2500000	84000	100U	100U	384.0	100U
Anthracene	(ug/kg)	2500000	400000	100U	100U	664.0	100U
Benzo(a)anthracene	(ug/kg)	7800	1000	100U	100U	[1089.0]	100U
Benzo(a)pyrene	(ug/kg)	1000	1000	100U	100U	830.0	113.0
3,4-Benzofluoranthene	(ug/kg)	7800	1000	100U	100U	954.0	100U
Benzo(k)fluoranthene	(ug/kg)	78000	1000	100U	100U	161.0	100U
Chrysene	(ug/kg)	780000	960	100U	100U	[1536.0]	100U
Fluoranthene	(ug/kg)	2500000	56000	100U	135.0	2774.0	132.0
Phenanthrene	(ug/kg)	2500000	40000	100U	100U	448.0	100U
Pyrene	(ug/kg)	2500000	40000	100U	120.0	3333.0	142.0
TPH	(mg/kg)	2500	2500	25U	25U	30	25U
Arsenic	(mg/kg)	10		[14.7]	[18.3]	3.6	[23.0]
Barium	(mg/kg)	140000		35	54	57	24
Cadmium	(mg/kg)	1000		0.5U	0.5U	0.5U	0.9
Chromium	(mg/kg)			12.0	9.8	9.3	27.1
Lead	(mg/kg)	1000		49.4	62.9	97.1	13.0
Mercury	(mg/kg)	610		0.22	0.25	2.86	0.16
Selenium	(mg/kg)	10000		5.2	1.1	1.5	3.5

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RSR exceedences are bracketed.

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English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	SED-01	TB-005	TB-008A	TB-008B
	SAMPLE ID			ES SED1 (1)	ES-TB5 (4-6)	ES-TB8A (1-3)	ES-TB8B (15-17)
	DATE			06/12/1998	06/04/1998	06/04/1998	06/04/1998
	DEPTH (ft)			1.00	5.00	2.00	16.00
Acenaphthene	(ug/kg)	2500000	84000	10000U	100U	100U	100U
Acenaphthylene	(ug/kg)	2500000	84000	10000U	100U	100U	100U
Anthracene	(ug/kg)	2500000	400000	10000U	100U	100U	100U
Benzo(a)anthracene	(ug/kg)	7800	1000	[10000]U	100U	100U	100U
Benzo(a)pyrene	(ug/kg)	1000	1000	[10000]U	100U	100U	100U
3,4-Benzofluoranthene	(ug/kg)	7800	1000	[10000]U	100U	100U	100U
Benzo(k)fluoranthene	(ug/kg)	78000	1000	[10000]U	100U	100U	100U
Chrysene	(ug/kg)	780000	960	[10000]U	100U	100U	100U
Fluoranthene	(ug/kg)	2500000	56000	10000U	100U	100U	100U
Phenanthrene	(ug/kg)	2500000	40000	10000U	100U	100U	100U
Pyrene	(ug/kg)	2500000	40000	10000U	100U	100U	100U
TPH	(mg/kg)	2500	2500	35	97	25U	25U
Arsenic	(mg/kg)	10		[16.3]	4.9	[23.1]	6.6
Barium	(mg/kg)	140000		31	53.0	100	28.0
Cadmium	(mg/kg)	1000		0.5U	0.5U	0.5U	0.5U
Chromium	(mg/kg)			92.1J	8.5	3.7	18.4
Lead	(mg/kg)	1000		429	165	807	18.4
Mercury	(mg/kg)	610		1.67	1.20	0.38	0.02
Selenium	(mg/kg)	10000		0.5U	0.5U	3.4	0.5U

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm. Criteria CTDEP Jan. 1998	GB Mobility Criteria CTDEP Jan. 1998	TB-009	TB-010	TB-104	TB-104
	SAMPLE ID			ES-TB9 (3-7)	ES-TB10(11-13)	TB-104 (2-4)	TB-104 (4-6)
	DATE			06/04/1998	06/04/1998	06/30/1998	06/30/1998
	DEPTH (ft)			5.00	12.00	3.00	5.00
Acenaphthene	(ug/kg)	2500000	84000	100U	100U	NA	NA
Acenaphthylene	(ug/kg)	2500000	84000	100U	100U	NA	NA
Anthracene	(ug/kg)	2500000	400000	100U	100U	NA	NA
Benzo(a)anthracene	(ug/kg)	7800	1000	100U	100U	NA	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	100U	100U	NA	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	100U	100U	NA	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	100U	100U	NA	NA
Chrysene	(ug/kg)	780000	960	100U	100U	NA	NA
Fluoranthene	(ug/kg)	2500000	56000	100U	100U	NA	NA
Phenanthrene	(ug/kg)	2500000	40000	100U	100U	NA	NA
Pyrene	(ug/kg)	2500000	40000	100U	100U	NA	NA
TPH	(mg/kg)	2500	2500	57	25U	598	45
Arsenic	(mg/kg)	10		[93.0]	[13.8]	[10.1]	7.2
Barium	(mg/kg)	140000		50.0	102	NA	NA
Cadmium	(mg/kg)	1000		3.7	4.0	NA	NA
Chromium	(mg/kg)			8.6	21.0	NA	NA
Lead	(mg/kg)	1000		318	475	8.2	11.3
Mercury	(mg/kg)	610		0.94	2.03	NA	NA
Selenium	(mg/kg)	10000		0.5U	0.5U	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

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English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-104	TB-106	TB-106	TB-106
	SAMPLE ID			TB-104 (6-8)	TB-106 (3-5)	TB-106 (8-10)	TB-106 (10-12)
	DATE			06/30/1998	06/30/1998	06/30/1998	06/30/1998
	DEPTH (ft)			7.00	4.00	9.00	11.00
Acenaphthene	(ug/kg)	2500000	84000	NA	NA	NA	NA
Acenaphthylene	(ug/kg)	2500000	84000	NA	NA	NA	NA
Anthracene	(ug/kg)	2500000	400000	NA	NA	NA	NA
Benzo(a)anthracene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	NA	NA	NA	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA	NA	NA	NA
Chrysene	(ug/kg)	780000	960	NA	NA	NA	NA
Fluoranthene	(ug/kg)	2500000	56000	NA	NA	NA	NA
Phenanthrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
Pyrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
TPH	(mg/kg)	2500	2500	25U	NA	2118	2498
Arsenic	(mg/kg)	10		NA	3.3	NA	NA
Barium	(mg/kg)	140000		NA	NA	NA	NA
Cadmium	(mg/kg)	1000		NA	NA	NA	NA
Chromium	(mg/kg)			NA	NA	NA	NA
Lead	(mg/kg)	1000		NA	19.5	NA	NA
Mercury	(mg/kg)	610		NA	NA	NA	NA
Selenium	(mg/kg)	10000		NA	NA	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Coal Storage Area
 (AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-107 TB-107 (2-4) 07/01/1998 3.00	TB-107 TB-107 (6-8) 07/01/1998 7.00	TB-230 TB-230(2-4) 04/03/2000 3.00	TB-231 TB-231(0-2) 04/03/2000 1.00
Acenaphthene	(ug/kg)	2500000	84000	NA	NA	NA	NA
Acenaphthylene	(ug/kg)	2500000	84000	NA	NA	NA	NA
Anthracene	(ug/kg)	2500000	400000	NA	NA	NA	NA
Benzo(a)anthracene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	NA	NA	NA	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA	NA	NA	NA
Chrysene	(ug/kg)	780000	960	NA	NA	NA	NA
Fluoranthene	(ug/kg)	2500000	56000	NA	NA	NA	NA
Phenanthrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
Pyrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
TPH	(mg/kg)	2500	2500	380	129	NA	NA
Arsenic	(mg/kg)	10		[34.4]	[11.8]	5.0	[11.5]
Barium	(mg/kg)	140000		NA	NA	NA	NA
Cadmium	(mg/kg)	1000		NA	NA	NA	NA
Chromium	(mg/kg)			NA	NA	NA	NA
Lead	(mg/kg)	1000		80.5	78.3	NA	NA
Mercury	(mg/kg)	610		NA	NA	NA	NA
Selenium	(mg/kg)	10000		NA	NA	NA	NA

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 RSR exceedences are bracketed.

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English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-232	TB-233	TB-234	TB-235
	SAMPLE ID			TB-232(2-4)	TB-233(2-4)	TB-234(0-2)	TB-235(2-4)
	DATE			04/03/2000	04/03/2000	04/03/2000	04/03/2000
	DEPTH (ft)			3.00	3.00	1.00	3.00
Acenaphthene	(ug/kg)	2500000	84000	NA	NA	NA	NA
Acenaphthylene	(ug/kg)	2500000	84000	NA	NA	NA	NA
Anthracene	(ug/kg)	2500000	400000	NA	NA	NA	NA
Benzo(a)anthracene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	NA	NA	NA	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA	NA	NA	NA
Chrysene	(ug/kg)	780000	960	NA	NA	NA	NA
Fluoranthene	(ug/kg)	2500000	56000	NA	NA	NA	NA
Phenanthrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
Pyrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
TPH	(mg/kg)	2500	2500	NA	NA	NA	NA
Arsenic	(mg/kg)	10		[11.5]	[32.3]	[12.4]	[22.8]
Barium	(mg/kg)	140000		NA	NA	NA	NA
Cadmium	(mg/kg)	1000		NA	NA	NA	NA
Chromium	(mg/kg)			NA	NA	NA	NA
Lead	(mg/kg)	1000		NA	NA	NA	NA
Mercury	(mg/kg)	610		NA	NA	NA	NA
Selenium	(mg/kg)	10000		NA	NA	NA	NA

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RSR exceedences are bracketed.

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English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-236	TB-237	TB-239	TB-240
	SAMPLE ID			TB-236(0-2)	TB-237(0-2)	TB-239(0-2)	TB-240(2-4)
	DATE			04/03/2000	04/03/2000	04/03/2000	04/03/2000
	DEPTH (ft)			1.00	1.00	1.00	3.00
Acenaphthene	(ug/kg)	2500000	84000	NA	NA	NA	NA
Acenaphthylene	(ug/kg)	2500000	84000	NA	NA	NA	NA
Anthracene	(ug/kg)	2500000	400000	NA	NA	NA	NA
Benzo(a)anthracene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	NA	NA	NA	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA	NA	NA	NA
Chrysene	(ug/kg)	780000	960	NA	NA	NA	NA
Fluoranthene	(ug/kg)	2500000	56000	NA	NA	NA	NA
Phenanthrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
Pyrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
TPH	(mg/kg)	2500	2500	NA	NA	NA	NA
Arsenic	(mg/kg)	10		3.6	7.9	4.3	3.0
Barium	(mg/kg)	140000		NA	NA	NA	NA
Cadmium	(mg/kg)	1000		NA	NA	NA	NA
Chromium	(mg/kg)			NA	NA	NA	NA
Lead	(mg/kg)	1000		NA	NA	NA	NA
Mercury	(mg/kg)	610		NA	NA	NA	NA
Selenium	(mg/kg)	10000		NA	NA	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-241	TB-242
				TB-241(1-3) 04/03/2000 2.00	TB-242(1-3) 04/03/2000 2.00
Acenaphthene	(ug/kg)	2500000	84000	NA	NA
Acenaphthylene	(ug/kg)	2500000	84000	NA	NA
Anthracene	(ug/kg)	2500000	400000	NA	NA
Benzo(a)anthracene	(ug/kg)	7800	1000	NA	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	NA	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA	NA
Chrysene	(ug/kg)	780000	960	NA	NA
Fluoranthene	(ug/kg)	2500000	56000	NA	NA
Phenanthrene	(ug/kg)	2500000	40000	NA	NA
Pyrene	(ug/kg)	2500000	40000	NA	NA
TPH	(mg/kg)	2500	2500	NA	NA
Arsenic	(mg/kg)	10		7.3	5.5
Barium	(mg/kg)	140000		NA	NA
Cadmium	(mg/kg)	1000		NA	NA
Chromium	(mg/kg)			NA	NA
Lead	(mg/kg)	1000		NA	NA
Mercury	(mg/kg)	610		NA	NA
Selenium	(mg/kg)	10000		NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	MW-004D	MW-004S	MW-005	MW-006
	SAMPLE ID			ESMW4D 36-40	ES-MW45 (11-13)	ES-MW5 (2-4)	ESMW6 5-9
	DATE			06/10/1998	05/27/1998	05/26/1998	06/09/1998
	DEPTH (ft)			38.00	12.00	3.00	7.00
Arsenic (SPLP)	(mg/l)		0.5	0.05U	0.05U	0.05U	0.05
Cadmium (SPLP)	(mg/l)		0.05	0.005U	0.005U	0.005U	0.005U
Lead (SPLP)	(mg/l)		0.15	0.005U	0.005U	0.005U	0.005U

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Coal Storage Area
 (AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive
 SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust./Comm. Criteria	GB Mobility Criteria	MW-007 ES-MW7 (7-9)	MW-009A ES-MW9A(0-2)	MW-010 ESMW10 9-11	MW-022 ESMW22 7-9
	DATE	CTDEP Jan. 1996	CTDEP Jan. 1996	06/04/1998	05/26/1998	06/09/1998	06/09/1998
	DEPTH (ft)			8.00	1.00	10.00	8.00
Arsenic (SPLP)	(mg/l)		0.5	0.05U	0.05U	0.05U	0.05U
Cadmium (SPLP)	(mg/l)		0.05	0.005U	0.005U	0.005U	[0.052]
Lead (SPLP)	(mg/l)		0.15	0.005U	0.014	0.005U	0.008

Only those parameters detected are shown.
 RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust/Comm Criteria	GB Mobility Criteria	SED-01 ES SED1 (1)	TB-005 ES-TB5 (4-6)	TB-008A ES-TB8A (1-3)	TB-008B ES-TB8B (15-17)
DATE	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1998	06/12/1998	06/04/1998	06/04/1998	06/04/1998
Arsenic (SPLP)	(mg/l)		0.5	0.05U	0.05U	0.05U	0.05U
Cadmium (SPLP)	(mg/l)		0.05	0.005U	0.005U	0.005U	0.005U
Lead (SPLP)	(mg/l)		0.15	0.023	0.005U	0.021	0.005U

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Coal Storage Area
 (AOC 12)

PERIOD: From 05/26/1998 thru 04/03/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE		TB-009		TB-010
	SAMPLE ID	Indust./Comm.	GB Mobility	ES-TB9 (3-7)	ES-TB10(11-13)
	DATE	Criteria	Criteria	06/04/1998	06/04/1998
	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996	5.00	12.00
Arsenic (SPLP)	(mg/l)		0.5	0.05U	0.05U
Cadmium (SPLP)	(mg/l)		0.05	0.005U	0.007
Lead (SPLP)	(mg/l)		0.15	0.005U	0.005U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Wastewater Treatment System/Station East
 (AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1998	GB Mobility Criteria CTDEP Jan. 1998	MW-018 ES-MW18 (14-16) 05/29/1998 15.00	MW-020 ES-MW20 (11-13) 05/27/1998 12.00	SED-02 ES SED2 (0.5) 06/12/1998 0.50	TB-018 ES-TB18 (12-14) 05/28/1998 13.00
PCB's	(mg/kg)	10		1.0U	1.0U	1	1.0U
Acenaphthene	(ug/kg)	2500000	84000	1000U	100U	10000U	100U
Acenaphthylene	(ug/kg)	2500000	84000	1000U	100U	10000U	145.0
Anthracene	(ug/kg)	2500000	400000	1000U	100U	10000U	100U
Benzo(a)anthracene	(ug/kg)	7800	1000	1000U	100U	[10000]U	182.0
Benzo(a)pyrene	(ug/kg)	1000	1000	1000U	100U	[10000]U	268.0J
3,4-Benzofluoranthene	(ug/kg)	7800	1000	1000U	100U	[10000]U	203.0
Benzo(k)fluoranthene	(ug/kg)	78000	1000	1000U	100U	[10000]U	100U
Chrysene	(ug/kg)	780000	960	[1000U]	100U	[10000]U	226.0
Fluoranthene	(ug/kg)	2500000	56000	1000U	100U	10000U	369.0J
Fluorene	(ug/kg)	2500000	56000	1000U	100U	10000U	100U
Indeno(1,2,3-cd)pyrene	(ug/kg)	7800	1000	[5000]U	500U	[50000]U	500U
Naphthalene	(ug/kg)	2500000	56000	1000U	100U	10000U	65797.0
Phenanthrene	(ug/kg)	2500000	40000	1000U	100U	10000U	203.0
Pyrene	(ug/kg)	2500000	40000	1000U	100U	10000U	529.0
TPH	(mg/kg)	2500	2500	238	29J	191	405
ETPH	(mg/kg)	2500	2500	NA	NA	NA	NA
Arsenic	(mg/kg)	10		2.8J	4.3	5.3	4.5J
Barium	(mg/kg)	140000		18.3	38	62	51.3
Cadmium	(mg/kg)	1000		0.9	0.5U	0.5U	0.5U
Chromium	(mg/kg)	100		14.9	10.2	32.0J	9.2

Only those parameters detected are shown.
 RSR exceedences are bracketed.

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English Station
 Summary of Soil Analytical Data
 Wastewater Treatment System/Station East
 (AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	MW-018 ES-MW18 (14-16) 05/28/1998 15.00	MW-020 ES-MW20 (11-13) 05/27/1998 12.00	SED-02 ES SED2 (0.5) 06/12/1998 0.50	TB-018 ES-TB18 (12-14) 05/28/1998 13.00
Lead	(mg/kg)	1000		36.3	11.0	110	[2160]
Mercury	(mg/kg)	610		0.24	0.02U	1.66	0.07
Selenium	(mg/kg)	10000		0.5U	0.5U	1.5	0.5U
Silver	(mg/kg)	10000		0.2U	0.2U	0.2U	0.2U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-018A ES-TB 18A(16-18) 05/28/1998 17.00	TB-108 TB-108 (8-10) 07/01/1998 9.00	TB-108 TB-108 (12-14) 07/01/1998 13.00	TB-200 TB-200(0-2) 03/30/2000 1.00
PCB's	(mg/kg)	10		1.0U	NA	NA	NA
Acenaphthene	(ug/kg)	2500000	84000	10000U	10000U	1000U	<100
Acenaphthylene	(ug/kg)	2500000	84000	10000U	10000U	1000U	<100
Anthracene	(ug/kg)	2500000	400000	10000U	10000U	1000U	<100
Benzo(a)anthracene	(ug/kg)	7800	1000	[10000]U	[10000]U	1000U	<100
Benzo(a)pyrene	(ug/kg)	1000	1000	[10000]U	[10000]U	[1000]U	170.0
3,4-Benzofluoranthene	(ug/kg)	7800	1000	[10000]U	[10000]U	1000U	114.0
Benzo(k)fluoranthene	(ug/kg)	78000	1000	[10000]U	[10000]U	1000U	<100
Chrysene	(ug/kg)	780000	960	[10000]U	[10000]U	1000U	<100
Fluoranthene	(ug/kg)	2500000	56000	[59574.0]U	10000U	1691.0	<100
Fluorene	(ug/kg)	2500000	56000	10000U	10000U	1000U	<100
Indeno(1,2,3-cd)pyrene	(ug/kg)	7800	1000	[50000]U	[50000]U	[5000]U	<500
Naphthalene	(ug/kg)	2500000	56000	10000U	10000U	1000U	<100
Phenanthrene	(ug/kg)	2500000	40000	38833.0	10000U	1483.0	<100
Pyrene	(ug/kg)	2500000	40000	61277.0	10000U	1658.0	<100
TPH	(mg/kg)	2500	2500	1492	[4162]	1542	NA
ETPH	(mg/kg)	2500	2500	NA	NA	NA	28
Arsenic	(mg/kg)	10		[10.7]J	NA	NA	2.9
Barium	(mg/kg)	140000		10.2	NA	NA	41
Cadmium	(mg/kg)	1000		5.0	NA	NA	<0.5
Chromium	(mg/kg)	100		90.4	NA	NA	8.0

Only those parameters detected are shown.
RSR exceedences are bracketed.

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English Station
 Summary of Soil Analytical Data
 Wastewater Treatment System/Station East
 (AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-018A ES-TB18A(16-18) 05/28/1998 17.00	TB-108 TB-108 (8-10) 07/01/1998 9.00	TB-108 TB-108 (12-14) 07/01/1998 13.00	TB-200 TB-200(0-2) 03/30/2000 1.00
Lead	(mg/kg)	1000		350	NA	NA	19.3
Mercury	(mg/kg)	610		3.46	NA	NA	0.06
Selenium	(mg/kg)	10000		0.5U	NA	NA	<0.5
Silver	(mg/kg)	10000		4.6	NA	NA	<0.2

NA=Not analyzed

Only those parameters detected are shown.
 RSR exceedences are bracketed.

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Stallion East
(AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1998	GB Mobility Criteria CTDEP Jan. 1998	TB-201 TB-201(0-2) 03/30/2000 1.00	TB-202 TB-202(2-4) 03/30/2000 3.00	TB-203 TB-203(0-2) 03/30/2000 1.00	TB-204 TB-204(2-4) 03/30/2000 3.00
PCB's	(mg/kg)	10		NA	NA	NA	NA
Acenaphthene	(ug/kg)	2500000	84000	<100	3292.0	<100	<100
Acenaphthylene	(ug/kg)	2500000	84000	<100	1636.0	3531.0	<100
Anthracene	(ug/kg)	2500000	400000	<100	15425.0	6603.0	<100
Benzo(a)anthracene	(ug/kg)	7800	1000	<100	[28441.0]	[30950.0]	<100
Benzo(a)pyrene	(ug/kg)	1000	1000	<100	[43270.0]	[28585.0]	[3269.0]
3,4-Benzofluoranthene	(ug/kg)	7800	1000	<100	[26506.0]	[24427.0]	<100
Benzo(k)fluoranthene	(ug/kg)	78000	1000	<100	[32681.0]	[18714.0]	<100
Chrysene	(ug/kg)	780000	960	<100	[28784.0]	[27318.0]	<100
Fluoranthene	(ug/kg)	2500000	56000	<100	[64475.0]	51323.0	<100
Fluorene	(ug/kg)	2500000	56000	<100	7249.0	<100	<100
Indeno(1,2,3-cd)pyrene	(ug/kg)	7800	1000	<500	[8147.0]	[6040.0]	<500
Naphthalene	(ug/kg)	2500000	56000	<100	<100	<100	<100
Phenanthrene	(ug/kg)	2500000	40000	<100	[72000.0]	26000.0	<100
Pyrene	(ug/kg)	2500000	40000	<100	[44532.0]	[48043.0]	<100
TPH	(mg/kg)	2500	2500	NA	NA	NA	NA
ETPH	(mg/kg)	2500	2500	94	57	32	1377
Arsenic	(mg/kg)	10		1.9	4.2	3.7	3.0
Barium	(mg/kg)	140000		47	48	34	23
Cadmium	(mg/kg)	1000		<0.5	<0.5	<0.5	<0.5
Chromium	(mg/kg)	100		7.6	10.2	11.7	8.8

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Wastewater Treatment System/Station East
 (AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1998	GB Mobility Criteria CTDEP Jan. 1998	TB-201	TB-202	TB-203	TB-204
	SAMPLE ID			TB-201(0-2)	TB-202(2-4)	TB-203(0-2)	TB-204(2-4)
	DATE			03/30/2000	03/30/2000	03/30/2000	03/30/2000
	DEPTH (ft)			1.00	3.00	1.00	3.00
Lead	(mg/kg)	1000		33.5	157	44.3	44.7
Mercury	(mg/kg)	610		0.03	0.28	0.07	0.14
Selenium	(mg/kg)	10000		<0.5	1.8	<0.5	0.9
Silver	(mg/kg)	10000		<0.2	<0.2	<0.2	<0.2

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust/Comm. Criteria CTDEP Jan. 1998	GB Mobility Criteria CTDEP Jan. 1998	TB-205 TB-205(2-4) 03/30/2000 3.00	TB-206 TB-206(2-4) 03/30/2000 3.00
PCB's	(mg/kg)	10		NA	NA
Acenaphthene	(ug/kg)	2500000	84000	<100	<100
Acenaphthylene	(ug/kg)	2500000	84000	1311.0	<100
Anthracene	(ug/kg)	2500000	400000	1034.0	<100
Benzo(a)anthracene	(ug/kg)	7800	1000	[10590.0]	[1318.0]
Benzo(a)pyrene	(ug/kg)	1000	1000	[14827.0]	[3433.0]
3,4-Benzofluoranthene	(ug/kg)	7800	1000	[16828.0]	[2767.0]
Benzo(k)fluoranthene	(ug/kg)	78000	1000	[12757.0]	[1754.0]
Chrysene	(ug/kg)	780000	960	[9540.0]	[1390.0]
Fluoranthene	(ug/kg)	2500000	56000	10237.0	1498.0
Fluorene	(ug/kg)	2500000	56000	<100	<100
Indeno(1,2,3-cd)pyrene	(ug/kg)	7800	1000	[7496.0]	<500
Naphthalene	(ug/kg)	2500000	56000	<100	<100
Phenanthrene	(ug/kg)	2500000	40000	3635.0	<100
Pyrene	(ug/kg)	2500000	40000	12721.0	1625.0
TPH	(mg/kg)	2500	2500	NA	NA
ETPH	(mg/kg)	2500	2500	189	115
Arsenic	(mg/kg)	10		6.1	9.3
Barium	(mg/kg)	140000		37	55
Cadmium	(mg/kg)	1000		<0.5	<0.5
Chromium	(mg/kg)	100		8.8	10.8

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1998	GB Mobility Criteria CTDEP Jan. 1998	TB-205	TB-206
	SAMPLE ID			TB-205(2-4)	TB-206(2-4)
	DATE			03/30/2000	03/30/2000
	DEPTH (ft)			3.00	3.00
Lead	(mg/kg)	1000		134	276
Mercury	(mg/kg)	610		0.21	0.46
Selenium	(mg/kg)	10000		3.2	1.2
Silver	(mg/kg)	10000		<0.2	<0.2

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indus/Comm. Criteria	GB Mobility Criteria	MW-018 ES-MW18 (14-16) 05/29/1998	MW-020 ES-MW20 (11-13) 05/27/1998	SED-02 ES SED2 (0.5) 06/12/1998	TB-018 ES-TB18 (12-14) 05/28/1998
	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996	15.00	12.00	0.50	13.00
Lead (SPLP)	(mg/l)		0.15	0.008	0.005U	0.005U	0.005U

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust/Comm Criteria	GB Mobility Criteria	TB-018A ES-TB18A(16-18)	TB-200 TB-200(0-2)	TB-201 TB-201(0-2)	TB-202 TB-202(2-4)
	DATE	CTDEP Jan. 1998	CTDEP Jan. 1998	05/28/1998	03/30/2000	03/30/2000	03/30/2000
	DEPTH (ft)			17.00	1.00	1.00	3.00
Lead (SPLP)	(mg/l)		0.15	0.005U	<0.005	<0.005	<0.005

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Wastewater Treatment System/Station East
 (AOC 13)

PERIOD: From 05/27/1998 thru 03/30/2000 - Inclusive
 SAMPLE TYPE: Soil

CONSTITUENT	SITE		GB Mobility Criteria	TB-203	TB-204	TB-205	TB-206
	SAMPLE ID	Indust./Comm.		TB-203(0-2)	TB-204(2-4)	TB-205(2-4)	TB-206(2-4)
	DATE	Criteria		03/30/2000	03/30/2000	03/30/2000	03/30/2000
	DEPTH (ft)	CTDEP Jan. 1996		CTDEP Jan. 1996	1.00	3.00	3.00
Lead (SPLP)	(mg/l)		0.15	<0.005	0.007	0.012	0.031

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Southwest of Plant

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive
 SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria	GB Mobility Criteria	TB-213	TB-215
	SAMPLE ID			TB-213(2-4)	TB-215(0-2)
	DATE			03/30/2000	03/30/2000
	DEPTH (ft)			CTDEP Jan. 1998	CTDEP Jan. 1998
ETPH	(mg/kg)	2500	2500	29	130
Arsenic	(mg/kg)	10		2.9	4.4
Barium	(mg/kg)	140000		32	41
Chromium	(mg/kg)	.		7.4	22.0
Lead	(mg/kg)	1000		14.0	24.2
Mercury	(mg/kg)	610		0.03	0.09
Selenium	(mg/kg)	10000		0.9	1.1

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
BOR1	12/15/1999	6.00		1.2
BOR1	12/15/1999	11.00		1U
BOR1	12/15/1999	16.00		1U
BOR1	12/15/1999	21.00		1U
BOR1	12/15/1999	26.00		1U
BOR1	12/15/1999	31.00		1U
BOR2	12/15/1999	6.00		1U
BOR2	12/15/1999	11.00		1U
BOR2	12/15/1999	16.00		1U
BOR2	12/15/1999	21.00		1U
BOR2	12/15/1999	26.00		1U
BOR2	12/15/1999	31.00		1U
BOR3	12/15/1999	11.00		1U
BOR3	12/15/1999	16.00		1U
BOR3	12/15/1999	21.00		1U
BOR3	12/15/1999	26.00		1U
BOR3	12/15/1999	31.00		1U
BOR4	12/15/1999	6.00		1U
BOR4	12/15/1999	11.00		1U
BOR4	12/15/1999	16.00		1U
BOR4	12/15/1999	21.00		1U
BOR4	12/15/1999	26.00		1U
BOR4	12/15/1999	31.00		1U
BOR5	12/15/1999	6.00		1U
BOR5	12/15/1999	11.00		1U
BOR5	12/15/1999	16.00		1U
BOR5	12/15/1999	21.00		1U
BOR5	12/15/1999	26.00		1U
BOR5	12/15/1999	31.00		1U
GP-01	12/12/1997	12.00		1U
GP-02	12/12/1997	12.00		1U
GP-03	12/12/1997	4.00		1U
GP-04	12/12/1997	12.00		5.0
GP-05	12/12/1997	12.00		3.0
GP-07	12/12/1997	8.00		1U
GP-09	12/19/1997	1.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
GP-09	12/19/1997	2.00		1U
GP-09	12/19/1997	3.00		1U
GP-09	12/19/1997	4.00		1U
GP-09	12/19/1997	5.00		1U
GP-09	12/19/1997	6.00		1U
GP-09	12/19/1997	7.00		1U
GP-09	12/19/1997	8.00		1U
GP-09	12/19/1997	9.00		1U
GP-09	12/19/1997	10.00		1U
GP-09	12/19/1997	11.00		1U
GP-09	12/19/1997	12.00		1U
GP-09	12/19/1997	13.00		1U
GP-09	12/19/1997	14.00		1U
GP-09	12/19/1997	15.00		1U
GP-09	12/19/1997	20.00		1U
GP-10	12/19/1997	1.00		1U
GP-10	12/19/1997	2.00		1U
GP-10	12/19/1997	3.00		1U
GP-10	12/19/1997	4.00		1U
GP-10	12/19/1997	5.00		1U
GP-10	12/19/1997	6.00		1U
GP-10	12/19/1997	7.00		1U
GP-10	12/19/1997	8.00		1U
GP-10	12/19/1997	9.00		1U
GP-10	12/19/1997	10.00		1U
GP-10	12/19/1997	11.00		1U
GP-10	12/19/1997	12.00		1U
GP-11	12/19/1997	1.00		1U
GP-11	12/19/1997	2.00		1U
GP-11	12/19/1997	3.00		1U
GP-11	12/19/1997	4.00		1U
GP-11	12/19/1997	5.00		1U
GP-11	12/19/1997	6.00		1U
GP-11	12/19/1997	7.00		1U
GP-11	12/19/1997	8.00		1U
GP-11	12/19/1997	9.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB' Mobility Criteria CTDEP Jan. 1996				
GP-11	12/19/1997	10.00		1U
GP-15	12/19/1997	4.00		1U
GP-15	12/19/1997	8.00		2.7
GP-15	12/19/1997	12.00		1U
GP-15	12/19/1997	16.00		1U
GP-15	12/19/1997	20.00		1U
GP-15	12/19/1997	25.00		1.4
GP-15	12/19/1997	28.00		1U
GP-15	12/19/1997	32.00		1U
GP-15	12/19/1997	36.00		1U
GP-16	12/29/1997	4.00		1.7
GP-16	12/29/1997	8.00		3.8
GP-16	12/29/1997	12.00		1U
GP-16	12/29/1997	16.00		1U
GP-16	12/29/1997	20.00		1U
GP-17	12/29/1997	4.00		7.3
GP-17	12/29/1997	8.00		[24.5]
GP-17	12/29/1997	12.00		1U
GP-17	12/29/1997	13.00		1U
GP-18	12/15/1999	1.50		1.7
GP-18	12/15/1999	2.50		1U
GP-18	12/15/1999	3.50		4.1
GP-18	12/15/1999	4.50		[16.7]
GP-18	12/15/1999	5.50		6.4
GP-18	12/15/1999	6.50		1U
GP-18	12/15/1999	7.50		1.9
GP-19	12/15/1999	3.50		1U
GP-19	12/15/1999	7.50		3.4
GP-19	12/15/1999	11.50		1U
GP-19	12/15/1999	12.50		1U
GP-20	12/15/1999	3.50		1U
GP-20	12/15/1999	7.50		5.0
GP-20	12/15/1999	11.50		1U
GP-20A	04/22/1999	1.00		1U
GP-20A	04/22/1999	3.00		1U
GP-20A	04/22/1999	5.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive
 SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
GP-20A	04/22/1999	7.00		8.2
GP-20A	04/22/1999	9.00		1.1
GP-20A	04/22/1999	11.00		1U
GP-22	12/15/1999	0.50		1U
GP-22	12/15/1999	1.50		1U
GP-22	12/15/1999	2.50		1U
GP-22	12/15/1999	3.50		1U
GP-22	12/15/1999	4.50		1U
GP-22	12/15/1999	5.50		1.5
GP-22	12/15/1999	6.50		1U
GP-22	12/15/1999	7.50		1U
GP-23	12/15/1999	0.50		1U
GP-23	12/15/1999	1.50		1U
GP-23	12/15/1999	2.50		1U
GP-23	12/15/1999	3.50		1U
GP-23	12/15/1999	4.50		1U
GP-23	12/15/1999	5.50		9.3
GP-23	12/15/1999	6.50		3.2
GP-23	12/15/1999	7.50		8.4
GP-23	12/15/1999	8.50		6.7
GP-23	12/15/1999	9.50		3.9
GP-24	12/15/1999	0.50		1U
GP-24	12/15/1999	1.50		1U
GP-24	12/15/1999	2.50		2.0
GP-24	12/15/1999	3.50		2.3
GP-24	12/15/1999	4.50		1.8
GP-24	12/15/1999	5.50		1.0
GP-24	12/15/1999	6.50		1U
GP-24	12/15/1999	7.50		7.9
GP-24	12/15/1999	8.50		1U
GP-24	12/15/1999	9.50		7.5
GP-24	12/15/1999	10.50		1U
GP-24	12/15/1999	11.50		1U
GP-24	12/15/1999	12.50		1U
GP-24	12/15/1999	13.50		1U
GP-24	12/15/1999	14.50		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
GP-24	12/15/1999	16.00		1U
GP-30	04/22/1999	1.00		1U
GP-30	04/22/1999	3.00		1U
GP-30	04/22/1999	5.00		3.8
GP-30	04/22/1999	7.00		5.4
GP-30	04/22/1999	9.00		1U
GP-30	04/22/1999	11.00		1U
GP-31	04/22/1999	1.00		1U
GP-31	04/22/1999	3.00		1U
GP-31	04/22/1999	5.00		1U
GP-31	04/22/1999	7.00		7.1
GP-31	04/22/1999	9.00		1U
GP-31	04/22/1999	11.00		1U
GP-32	04/22/1999	1.00		1U
GP-32	04/22/1999	3.00		1U
GP-32	04/22/1999	5.00		12
GP-32	04/22/1999	7.00		8.7
GP-32	04/22/1999	9.00		2.6
GP-32	04/22/1999	11.00		1U
GP-33	04/22/1999	1.00		1U
GP-33	04/22/1999	3.00		1U
GP-33	04/22/1999	5.00		1U
GP-33	04/22/1999	7.00		1U
GP-33	04/22/1999	9.00		1U
GP-33	04/22/1999	10.50		1U
GP-35	04/22/1999	1.00		1U
GP-35	04/22/1999	3.00		1U
GP-36	04/22/1999	1.00		1U
GP-36	04/22/1999	3.00		1.5
GP-38	04/23/1999	1.00		1U
GP-38	04/23/1999	3.00		1U
GP-38	04/23/1999	5.00		2.5
GP-38	04/23/1999	7.00		6.3
GP-39	04/23/1999	1.00		1U
GP-39	04/23/1999	3.00		1U
GP-39	04/23/1999	5.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
GP-39	04/23/1999	7.00		2.6
GP-40	04/23/1999	1.00		1U
GP-40	04/23/1999	3.00		1U
GP-40	04/23/1999	5.00		1U
GP-40	04/23/1999	7.00		1U
GP-41	04/23/1999	1.00		1U
GP-41	04/23/1999	3.00		1U
GP-41	04/23/1999	5.00		1U
GP-41	04/23/1999	7.00		1U
GP-41	04/23/1999	9.00		1U
GP-41	04/23/1999	11.00		1U
GP-621	12/15/1999	0.50		1U
GP-621	12/15/1999	1.50		1U
GP-621	12/15/1999	2.50		1U
GP-621	12/15/1999	3.50		1U
GP-621	12/15/1999	4.50		1U
GP-621	12/15/1999	5.50		1U
GP-621	12/15/1999	6.50		1U
GP-621	12/15/1999	7.50		1U
GP-621	12/15/1999	8.50		1U
GP-621	12/15/1999	9.50		1U
GP-621	12/15/1999	10.50		1U
GP-621	12/15/1999	11.50		1U
MW-050	10/12/1999	1.00	MW50	1U
MW-050	10/12/1999	3.00		1U
MW-050	10/12/1999	5.00		1.4
MW-050	10/12/1999	9.00		1U
MW-050	10/12/1999	11.00		1U
MW-051	10/12/1999	1.00		1U
MW-051	10/12/1999	3.00		1U
MW-051	10/12/1999	5.00		1U
MW-051	10/12/1999	7.00		1.7
MW-051	10/12/1999	9.00		1U
MW-051	10/12/1999	11.00		1U
MW-052	10/12/1999	5.00		1U
MW-053	10/12/1999	1.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
MW-053	10/12/1999	3.00		1U
MW-053	10/12/1999	5.00		1U
MW-053	10/12/1999	7.00		2.6
MW-053	10/12/1999	9.00		1U
MW-053	10/12/1999	11.00		1U
MWP-01	12/15/1999	1.00		4.3
MWP-01	12/15/1999	3.00		1U
MWP-01	12/15/1999	5.00		5.6
MWP-01	12/15/1999	7.00		2.9
MWP-01	12/15/1999	9.00		1U
MWP-01	12/15/1999	11.00		1.1
MWP-01	12/15/1999	13.00		1U
MWP-01	12/15/1999	15.00		1U
MWP-01	12/15/1999	20.00		1U
MWP-01	12/15/1999	25.00		1U
MWP-01	12/15/1999	30.00		1U
MWP-01	12/15/1999	35.00		1U
MWP-01	12/15/1999	40.00		1U
MWP-01	12/15/1999	45.00		1U
MWP-01	12/15/1999	50.00		1U
MWP-01	12/15/1999	55.00		1U
MWP-01	12/15/1999	65.00		1U
MWP-02	12/15/1999	1.00		2.8
MWP-02	12/15/1999	3.00		1.9
MWP-02	12/15/1999	5.00		[33.2]
MWP-02	12/15/1999	7.00		[10.6]
MWP-02	12/15/1999	9.00		1U
MWP-02	12/15/1999	11.00		1U
MWP-02	12/15/1999	13.00		1U
MWP-02	12/15/1999	15.00		1U
MWP-02	12/15/1999	20.00		1U
MWP-02	12/15/1999	25.00		1U
MWP-02	12/15/1999	30.00		1U
MWP-02	12/15/1999	35.00		1U
MWP-02	12/15/1999	40.00		1U
MWP-02	12/15/1999	45.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

[] = Greater than Action Level NA = Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive
 SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust/Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
MWP-02	12/15/1999	50.00		1U
MWP-02	12/15/1999	55.00		1U
MWP-02	12/15/1999	60.00		1U
MWP-02	12/15/1999	65.00		1U
MWP-02	12/15/1999	70.00		1U
MWP-03	12/15/1999	1.00		1U
MWP-03	12/15/1999	3.00		1U
MWP-03	12/15/1999	5.00		4.6
MWP-03	12/15/1999	7.00		[11.9]
MWP-03	12/15/1999	9.00		1U
MWP-03	12/15/1999	11.00		1U
MWP-03	12/15/1999	13.00		1U
MWP-03	12/15/1999	15.00		1U
MWP-03	12/15/1999	20.00		1U
MWP-03	12/15/1999	25.00		1U
MWP-03	12/15/1999	30.00		1U
MWP-03	12/15/1999	35.00		1U
MWP-03	12/15/1999	40.00		1U
MWP-03	12/15/1999	45.00		1U
MWP-03	12/15/1999	50.00		1U
MWP-03	12/15/1999	55.00		1U
MWP-03	12/15/1999	60.00		1U
MWP-03	12/15/1999	65.00		1U
MWP-03	12/15/1999	70.00		1U
MWP-04	12/15/1999	1.00		4.5
MWP-04	12/15/1999	3.00		1U
MWP-04	12/15/1999	5.00		4.5
MWP-04	12/15/1999	7.00		3.4
MWP-04	12/15/1999	9.00		1U
MWP-04	12/15/1999	11.00		1U
MWP-04	12/15/1999	13.00		1U
MWP-04	12/15/1999	15.00		1U
MWP-04	12/15/1999	20.00		1U
MWP-04	12/15/1999	25.00		1U
MWP-04	12/15/1999	30.00		1U
MWP-04	12/15/1999	35.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

[] = Greater than Action Level NA = Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
MWP-04	12/15/1999	40.00		1U
MWP-04	12/15/1999	45.00		1U
MWP-04	12/15/1999	50.00		1U
MWP-04	12/15/1999	55.00		1U
MWP-04	12/15/1999	60.00		1U
MWP-04	12/15/1999	65.00		1U
MWP-04	12/15/1999	70.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Station B
(AOC 1)

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria	GB Mobility Criteria	TB-217	TB-217	TB-217	TB-217
	SAMPLE ID			TB-217(0-2)	TB-217(2-4)	TB-217(4-6)	TB-217(6-8)
DATE	DATE			03/30/2000	03/30/2000	03/30/2000	03/30/2000
DEPTH (ft)	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996	1.00	3.00	5.00	7.00
ETPH	(mg/kg)	2500	2500	<25	<200	224	360
Arsenic	(mg/kg)	10		6.9	7.9	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Gasoline USTs
(AOC 2)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
SAMPLE TYPE: Soil

Excavated

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-218	TB-218	TB-226	TB-227
	SAMPLE ID			TB-218(0-2)	TB-218(4-6)	TB-226(2-4)	TB-227(4-5)
	DATE			03/30/2000	03/30/2000	03/31/2000	03/31/2000
	DEPTH (ft)			1.00	5.00	3.00	5.00
Acanaphthylene	(ug/kg)	2500000	84000	<100	2020.0	<100	NA
Anthracene	(ug/kg)	2500000	400000	<100	1304.0	<100	NA
Benzo(a)anthracene	(ug/kg)	7800	1000	<100	3445.0 ✓	<100	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	<100	[5584.0] ✓	<100	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	<100	4605.0 ✓	<100	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	<100	3665.0 ✓	<100	NA
Chrysene	(ug/kg)	780000	960 1000	<100	3607.0 ✓	<100	NA
Fluoranthene	(ug/kg)	2500000	56000	<100	4434.0	1303.0	NA
Fluorene	(ug/kg)	2500000	56000	<100	1603.0	<100	NA
Naphthalene	(ug/kg)	2500000	56000	<100	5066.0	<100	NA
Phenanthrene	(ug/kg)	2500000	40000	<100	5639.0	1034.0	NA
Pyrene	(ug/kg)	2500000	40000	<100	4745.0	1100.0	NA
ETPH	(mg/kg)	2500	2500	534	162	39	99
Arsenic	(mg/kg)	10		3.3	NA	4.2	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Gasoline USTs
(AOC 2)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive

SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-227	TB-228	TB-228	TB-229
	SAMPLE ID			TB-227(10-12)	TB-228(2-4)	TB-228(4-6)	TB-229(0-2)
	DATE			03/31/2000	03/31/2000	03/31/2000	03/31/2000
	DEPTH (ft)			11.00	3.00	5.00	1.00
Acenaphthylene	(ug/kg)	2500000	84000	NA	<100	NA	<100
Anthracene	(ug/kg)	2500000	400000	NA	<100	NA	<100
Benzo(a)anthracene	(ug/kg)	7800	1000	NA	114.0	NA	129.0
Benzo(a)pyrene	(ug/kg)	1000	1000	NA	126.0	NA	100.0
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA	158.0	NA	135.0
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA	135.0	NA	124.0
Chrysene	(ug/kg)	780000	960	NA	135.0	NA	237.0
Fluoranthene	(ug/kg)	2500000	56000	NA	219.0	NA	170.0
Fluorene	(ug/kg)	2500000	56000	NA	<100	NA	<100
Naphthalene	(ug/kg)	2500000	56000	NA	<100	NA	<100
Phenanthrene	(ug/kg)	2500000	40000	NA	<100	NA	<100
Pyrene	(ug/kg)	2500000	40000	NA	212.0	NA	334.0
EYPH	(mg/kg)	2500	2500	954	133	172	45
Arsenic	(mg/kg)	10		NA	2.5	NA	6.4

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Gasoline USTs
(AOC 2)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-229 TB-229(4-6) 03/31/2000 5.00
Acenaphthylene	(ug/kg)	2500000	84000	NA
Anthracene	(ug/kg)	2500000	400000	NA
Benzo(a)anthracene	(ug/kg)	7800	1000	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA
Chrysene	(ug/kg)	780000	960	NA
Fluoranthene	(ug/kg)	2500000	56000	NA
Fluorene	(ug/kg)	2500000	56000	NA
Naphthalene	(ug/kg)	2500000	56000	NA
Phenanthrene	(ug/kg)	2500000	40000	NA
Pyrene	(ug/kg)	2500000	40000	NA
ETPH	(mg/kg)	2500	2500	<25
Arsenic	(mg/kg)	10		NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Oil Pump Room/Waste Oil AST
(AOC 7)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indus/L/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-207	TB-208	TB-209	TB-210
				TB-207(0-2) 03/30/2000 1.00	TB-208(0-2) 03/30/2000 1.00	TB-209(2-4) 03/30/2000 3.00	TB-210(0-2) 03/30/2000 1.00
PCB's	(mg/kg)	10		NA	NA	NA	NA
Benzo(a)pyrene	(ug/kg)	1000	1000	215.0	[2138.0] ✓	[1385.0] ✓	<100
3,4-Benzofluoranthene	(ug/kg)	7800	1000	158.0	2437.0 ✓	1076.0	<100
Benzo(k)fluoranthene	(ug/kg)	78000	1000	122.0	1491.0 ✓	<100	<100
Fluoranthene	(ug/kg)	2500000	56000	<100	1250.0	<100	<100
Pyrene	(ug/kg)	2500000	40000	<100	1179.0	<100	<100
ETPH	(mg/kg)	2500	2500	<25	<25	291	65
Arsenic	(mg/kg)	10		3.9	2.8	5.2	2.2
Barium	(mg/kg)	140000		33	30	20	32
Cadmium	(mg/kg)	1000		<0.5	<0.5	<0.5	<0.5
Chromium	(mg/kg)			7.5	6.2	8.0	9.3
Lead	(mg/kg)	1000		87.1	11.5	28.5	31.3
Mercury	(mg/kg)	610		0.06	0.06	0.06	0.03
Selenium	(mg/kg)	10000		<0.5	<0.5	<0.5	2.5
Silver	(mg/kg)	10000		<0.2	<0.2	<0.2	<0.2
Lead (SPLP)	(mg/l)		0.15	0.010	<0.005	<0.005	0.006

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Oil Pump Room/Waste Oil AST
(AOC 7)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-223	TB-224	TB-224	TB-225
				TB-223(3.5-3.8) 03/31/2000 3.65	TB-224(1-1.3) 03/31/2000 1.15	TB-224(2-3) 03/31/2000 2.50	TB-225(1.7-2.0) 03/31/2000 1.85
PCB's	(mg/kg)	10		<1.0	5	7	[14] ✓
Benzo(a)pyrene	(ug/kg)	1000	1000	NA	NA	NA	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA	NA	NA	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA	NA	NA	NA
Fluoranthene	(ug/kg)	2500000	56000	NA	NA	NA	NA
Pyrene	(ug/kg)	2500000	40000	NA	NA	NA	NA
ETPH	(mg/kg)	2500	2500	<25	54	428	236
Arsenic	(mg/kg)	10		NA	NA	NA	NA
Barium	(mg/kg)	140000		NA	NA	NA	NA
Cadmium	(mg/kg)	1000		NA	NA	NA	NA
Chromium	(mg/kg)			NA	NA	NA	NA
Lead	(mg/kg)	1000		NA	NA	NA	NA
Mercury	(mg/kg)	610		NA	NA	NA	NA
Selenium	(mg/kg)	10000		NA	NA	NA	NA
Silver	(mg/kg)	10000		NA	NA	NA	NA
Lead (SPLP)	(mg/l)		0.15	NA	NA	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

[] = Greater than Action Level NA = Not analyzed

English Station
Summary of Soil Analytical Data
Oil Pump Room/Waste Oil AST
(AOC 7)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-225 TB-225(3.7-4.0) 03/31/2000 3.85
PCB's	(mg/kg)	10		4
Benzo(a)pyrene	(ug/kg)	1000	1000	NA
3,4-Benzofluoranthene	(ug/kg)	7800	1000	NA
Benzo(k)fluoranthene	(ug/kg)	78000	1000	NA
Fluoranthene	(ug/kg)	2500000	56000	NA
Pyrene	(ug/kg)	2500000	40000	NA
ETPH	(mg/kg)	2500	2500	1235
Arsenic	(mg/kg)	10		NA
Barium	(mg/kg)	140000		NA
Cadmium	(mg/kg)	1000		NA
Chromium	(mg/kg)			NA
Lead	(mg/kg)	1000		NA
Mercury	(mg/kg)	610		NA
Selenium	(mg/kg)	10000		NA
Silver	(mg/kg)	10000		NA
Lead (SPLP)	(mg/l)		0.15	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Oil ASTs
(AOC 8)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indus./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	SS-104	SS-105	SS-106	SS-107
	SAMPLE ID			SS-04	SS-05	SS-06	SS-07
	DATE			03/31/2000	03/31/2000	03/31/2000	03/31/2000
	DEPTH (ft)			0.15	0.15	0.15	0.15
PCB's	(mg/kg)	10		3	2	1	<1.0
ETPH	(mg/kg)	2500	2500	<25	<25	<25	<25
Arsenic	(mg/kg)	10		NA	NA	NA	NA
Barium	(mg/kg)	140000		NA	NA	NA	NA
Chromium	(mg/kg)			NA	NA	NA	NA
Lead	(mg/kg)	1000		NA	NA	NA	NA
Mercury	(mg/kg)	610		NA	NA	NA	NA
Selenium	(mg/kg)	10000		NA	NA	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Oil ASTs
 (AOC 8)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
 SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	SS-108	TB-211	TB-212	TB-219
	SAMPLE ID			SS-08	TB-211(0-2)	TB-212(2-4)	TB-219(3-3.3)
	DATE			03/31/2000	03/30/2000	03/30/2000	03/31/2000
	DEPTH (ft)			0.15	1.00	3.00	3.15
PCB's	(mg/kg)	10		1	NA	NA	<1.0
ETPH	(mg/kg)	2500	2500	<25	<25	53	41
Arsenic	(mg/kg)	10		NA	3.0	6.3	NA
Barium	(mg/kg)	140000		NA	31	31	NA
Chromium	(mg/kg)			NA	6.8	7.5	NA
Lead	(mg/kg)	1000		NA	55.9	26.6	NA
Mercury	(mg/kg)	610		NA	0.20	0.25	NA
Selenium	(mg/kg)	10000		NA	<0.5	1.4	NA

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Oil ASTs
(AOC 8)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-219	TB-220	TB-220	TB-220
	SAMPLE ID			TB-219(7-7.3)	TB-220(1.5-1.8)	TB-220(3.5-3.8)	TB-220(5-5.3)
	DATE			03/31/2000	03/31/2000	03/31/2000	03/31/2000
	DEPTH (ft)			7.15	1.65	3.65	5.15
PCB's	(mg/kg)	10		<1.0	<1.0	<1.0	<1.0
ETPH	(mg/kg)	2500	2500	46	1050	60	1115
Arsenic	(mg/kg)	10		NA	NA	NA	NA
Barium	(mg/kg)	140000		NA	NA	NA	NA
Chromium	(mg/kg)			NA	NA	NA	NA
Lead	(mg/kg)	1000		NA	NA	NA	NA
Mercury	(mg/kg)	610		NA	NA	NA	NA
Selenium	(mg/kg)	10000		NA	NA	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Oil ASTs
(AOC 8)

PERIOD: From 03/30/2000 thru 03/31/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-221 TB-221(5-5.3) 03/31/2000 5.15	TB-222 TB-222(1.7-2.0) 03/31/2000 1.85	TB-222 TB-222(5.9-6.2) 03/31/2000 6.05
PCB's	(mg/kg)	10		<1.0	<1.0	<1.0
ETPH	(mg/kg)	2500	2500	128	244	29
Arsenic	(mg/kg)	10		NA	NA	NA
Barium	(mg/kg)	140000		NA	NA	NA
Chromium	(mg/kg)			NA	NA	NA
Lead	(mg/kg)	1000		NA	NA	NA
Mercury	(mg/kg)	610		NA	NA	NA
Selenium	(mg/kg)	10000		NA	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Capacitors/Transformers
(AOC 9)

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID	Indust./Comm. Criteria	GB Mobility Criteria	HA-01	HA-02	SS-101	SS-102
				HA-01 03/30/2000	HA-02 03/30/2000	SS-01 03/30/2000	SS-02 03/30/2000
	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996	1.65	0.95	0.15	0.15
PCB's	(mg/kg)	10		[29] ✓	<1.0	<1.0	[23] ✓
Arsenic	(mg/kg)	10		NA	[230] <i>Yes</i>	[150] <i>excavate</i>	5.4

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Capacitors/Transformers
(AOC 9)

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE			SS-103	TB-214	TB-215
	SAMPLE ID	Indust/Comm.	GB Mobility	SS-03	TB-214(3-3.3)	TB-215(2-2.2)
	DATE	Criteria	Criteria	03/30/2000	03/30/2000	03/30/2000
	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996	0.15	3.15	2.10
PCB's	(mg/kg)	10		<1.0	2	4
Arsenic	(mg/kg)	10		[116] <i>low</i>	NA	NA

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 03/31/2000 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria	GB Mobility Criteria	HA-03 HA-(0-2) 03/31/2000	TB-230 TB-230(2-4) 04/03/2000	TB-231 TB-231(0-2) 04/03/2000	TB-232 TB-232(2-4) 04/03/2000	
	SAMPLE ID			DATE	DEPTH (ft)			
Arsenic	(mg/kg)	10	CTDEP Jan. 1996	CTDEP Jan. 1996	1.00	3.00	1.00	3.00
					[16.1] <i>RSR</i>	5.0	[11.5] <i>done</i>	[11.5] <i>done</i>

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 03/31/2000 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE		Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-233	TB-234	TB-235	TB-236
	SAMPLE ID	DEPTH (ft)			TB-233(2-4)	TB-234(0-2)	TB-235(2-4)	TB-236(0-2)
	DATE				04/03/2000	04/03/2000	04/03/2000	04/03/2000
					3.00	1.00	3.00	1.00
Arsenic	(mg/kg)	10		[32.3]	[12.4]	[22.8]	3.6	

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Coal Storage Area
(AOC 12)

PERIOD: From 03/31/2000 thru 04/03/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-237 TB-237(0-2) 04/03/2000 1.00	TB-239 TB-239(0-2) 04/03/2000 1.00	TB-240 TB-240(2-4) 04/03/2000 3.00	TB-241 TB-241(1-3) 04/03/2000 2.00
Arsenic	(mg/kg)	10		7.9	4.3	3.0	7.3

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 Coal Storage Area
 (AOC 12)

PERIOD: From 03/31/2000 thru 04/03/2000 - Inclusive
 SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm.	GB Mobility	TB-242
	SAMPLE ID	Criteria	Criteria	TB-242(1-3)
	DATE	CTDEP Jan. 1996	CTDEP Jan. 1996	04/03/2000
	DEPTH (ft)			2.00
Arsenic	(mg/kg)	10		5.5

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (ft)	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-200	TB-201	TB-202	TB-203
				TB-200(0-2) 03/30/2000 1.00	TB-201(0-2) 03/30/2000 1.00	TB-202(2-4) 03/30/2000 3.00	TB-203(0-2) 03/30/2000 1.00
Acenaphthene	(ug/kg)	2500000	84000	<100	<100	3292.0	<100
Acenaphthylene	(ug/kg)	2500000	84000	<100	<100	1636.0	3531.0
Anthracene	(ug/kg)	2500000	400000	<100	<100	15425.0	6603.0
Benzo(a)anthracene	(ug/kg)	7800	1000	<100	<100	[28441.0] -	[30950.0] -
Benzo(a)pyrene	(ug/kg)	1000	1000	170.0	<100	[43270.0] -	[28585.0] -
3,4-Benzofluoranthene	(ug/kg)	7800	1000	114.0	<100	[26506.0] -	[24427.0] -
Benzo(k)fluoranthene	(ug/kg)	78000	1000	<100	<100	32661.0	18714.0
Chrysene	(ug/kg)	780000	960	<100	<100	28794.0	27318.0
Fluoranthene	(ug/kg)	2500000	56000	<100	<100	64475.0	51323.0
Fluorene	(ug/kg)	2500000	56000	<100	<100	7249.0	<100
Indeno(1,2,3-cd)pyrene	(ug/kg)	7800	1000	<500	<500	[8147.0] -	6040.0
Phenanthrene	(ug/kg)	2500000	40000	<100	<100	72000.0	26000.0
Pyrene	(ug/kg)	2500000	40000	<100	<100	44532.0	48043.0
ETPH	(mg/kg)	2500	2500	28	94	57	32
Arsenic	(mg/kg)	10		2.9	1.9	4.2	3.7
Barium	(mg/kg)	140000		41	47	48	34
Cadmium	(mg/kg)	1000		<0.5	<0.5	<0.5	<0.5
Chromium	(mg/kg)			8.0	7.6	10.2	11.7
Lead	(mg/kg)	1000		19.3	33.5	157	44.3
Mercury	(mg/kg)	610		0.06	0.03	0.28	0.07
Selenium	(mg/kg)	10000		<0.5	<0.5	1.8	<0.5

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-200	TB-201	TB-202	TB-203
	SAMPLE ID			TB-200(0-2)	TB-201(0-2)	TB-202(2-4)	TB-203(0-2)
	DATE			03/30/2000	03/30/2000	03/30/2000	03/30/2000
	DEPTH (ft)			1.00	1.00	3.00	1.00
Silver	(mg/kg)	10000		<0.2	<0.2	<0.2	<0.2
Lead (SPLP)	(mg/l)		0.15	<0.005	<0.005	<0.005	<0.005

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

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CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-204	TB-205	TB-206
	SAMPLE ID			TB-204(2-4)	TB-205(2-4)	TB-206(2-4)
	DATE			03/30/2000	03/30/2000	03/30/2000
	DEPTH (ft)			3.00	3.00	3.00
Acenaphthene	(ug/kg)	2500000	84000	<100	<100	<100
Acenaphthylene	(ug/kg)	2500000	84000	<100	1311.0	<100
Anthracene	(ug/kg)	2500000	400000	<100	1034.0	<100
Benzo(a)anthracene	(ug/kg)	7800	1000	<100	[10590.0] ✓	1316.0
Benzo(a)pyrene	(ug/kg)	1000	1000	[3269.0]	[14827.0] ✓ <i>in</i>	[3433.0] ✓ <i>in</i>
3,4-Benzofluoranthene	(ug/kg)	7800	1000	<100	[15828.0] ✓	2767.0
Benzo(k)fluoranthene	(ug/kg)	78000	1000	<100	12757.0	1754.0
Chrysene	(ug/kg)	780000	960	<100	9540.0	1390.0
Fluoranthene	(ug/kg)	2500000	56000	<100	10237.0	1498.0
Fluorene	(ug/kg)	2500000	56000	<100	<100	<100
Indeno(1,2,3-cd)pyrene	(ug/kg)	7800	1000	<500	7496.0	<500
Phenanthrene	(ug/kg)	2500000	40000	<100	3635.0	<100
Pyrene	(ug/kg)	2500000	40000	<100	12721.0	1625.0
ETPH	(mg/kg)	2500	2500	1377	189	115
Arsenic	(mg/kg)	10		3.0	6.1	9.3
Barium	(mg/kg)	140000		23	37	55
Cadmium	(mg/kg)	1000		<0.5	<0.5	<0.5
Chromium	(mg/kg)			8.8	8.8	10.8
Lead	(mg/kg)	1000		44.7	134	276
Mercury	(mg/kg)	610		0.14	0.21	0.46
Selenium	(mg/kg)	10000		0.9	3.2	1.2

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
Wastewater Treatment System/Station East
(AOC 13)

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust./Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-204	TB-205	TB-206
	SAMPLE ID			TB-204(2-4)	TB-205(2-4)	TB-206(2-4)
	DATE			03/30/2000	03/30/2000	03/30/2000
	DEPTH (ft)			3.00	3.00	3.00
Silver	(mg/kg)	10000		<0.2	<0.2	<0.2
Lead (SPLP)	(mg/l)		0.15	0.007	0.012	0.031

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
Southwest of Plant

PERIOD: From 03/30/2000 thru 03/30/2000 - Inclusive
SAMPLE TYPE: Soil

CONSTITUENT	SITE	Indust/Comm. Criteria CTDEP Jan. 1996	GB Mobility Criteria CTDEP Jan. 1996	TB-213	TB-216
	SAMPLE ID			TB-213(2-4)	TB-216(0-2)
	DATE			03/30/2000	03/30/2000
	DEPTH (ft)			3.00	1.00
ETPH	(mg/kg)	2500	2500	29	130
Arsenic	(mg/kg)	10		2.9	4.4
Barium	(mg/kg)	140000		32	41
Chromium	(mg/kg)			7.4	22.0
Lead	(mg/kg)	1000		14.0	24.2
Mercury	(mg/kg)	610		0.03	0.09
Selenium	(mg/kg)	10000		0.9	1.1

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
BOR1	12/15/1999	6.00		1.2
BOR1	12/15/1999	11.00		1U
BOR1	12/15/1999	16.00		1U
BOR1	12/15/1999	21.00		1U
BOR1	12/15/1999	26.00		1U
BOR1	12/15/1999	31.00		1U
BOR2	12/15/1999	6.00		1U
BOR2	12/15/1999	11.00		1U
BOR2	12/15/1999	16.00		1U
BOR2	12/15/1999	21.00		1U
BOR2	12/15/1999	26.00		1U
BOR2	12/15/1999	31.00		1U
BOR3	12/15/1999	11.00		1U
BOR3	12/15/1999	16.00		1U
BOR3	12/15/1999	21.00		1U
BOR3	12/15/1999	26.00		1U
BOR3	12/15/1999	31.00		1U
BOR4	12/15/1999	6.00		1U
BOR4	12/15/1999	11.00		1U
BOR4	12/15/1999	16.00		1U
BOR4	12/15/1999	21.00		1U
BOR4	12/15/1999	26.00		1U
BOR4	12/15/1999	31.00		1U
BOR5	12/15/1999	6.00		1U
BOR5	12/15/1999	11.00		1U
BOR5	12/15/1999	16.00		1U
BOR5	12/15/1999	21.00		1U
BOR5	12/15/1999	26.00		1U
BOR5	12/15/1999	31.00		1U
GP-01	12/12/1997	12.00		1U
GP-02	12/12/1997	12.00		1U
GP-03	12/12/1997	4.00		1U
GP-04	12/12/1997	12.00		5.0
GP-05	12/12/1997	12.00		3.0
GP-07	12/12/1997	8.00		1U
GP-09	12/19/1997	1.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive
 SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
GP-09	12/19/1997	2.00		1U
GP-09	12/19/1997	3.00		1U
GP-09	12/19/1997	4.00		1U
GP-09	12/19/1997	5.00		1U
GP-09	12/19/1997	6.00		1U
GP-09	12/19/1997	7.00		1U
GP-09	12/19/1997	8.00		1U
GP-09	12/19/1997	9.00		1U
GP-09	12/19/1997	10.00		1U
GP-09	12/19/1997	11.00		1U
GP-09	12/19/1997	12.00		1U
GP-09	12/19/1997	13.00		1U
GP-09	12/19/1997	14.00		1U
GP-09	12/19/1997	15.00		1U
GP-09	12/19/1997	20.00		1U
GP-10	12/19/1997	1.00		1U
GP-10	12/19/1997	2.00		1U
GP-10	12/19/1997	3.00		1U
GP-10	12/19/1997	4.00		1U
GP-10	12/19/1997	5.00		1U
GP-10	12/19/1997	6.00		1U
GP-10	12/19/1997	7.00		1U
GP-10	12/19/1997	8.00		1U
GP-10	12/19/1997	9.00		1U
GP-10	12/19/1997	10.00		1U
GP-10	12/19/1997	11.00		1U
GP-10	12/19/1997	12.00		1U
GP-11	12/19/1997	1.00		1U
GP-11	12/19/1997	2.00		1U
GP-11	12/19/1997	3.00		1U
GP-11	12/19/1997	4.00		1U
GP-11	12/19/1997	5.00		1U
GP-11	12/19/1997	6.00		1U
GP-11	12/19/1997	7.00		1U
GP-11	12/19/1997	8.00		1U
GP-11	12/19/1997	9.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
GP-11	12/19/1997	10.00		1U
GP-15	12/19/1997	4.00		1U
GP-15	12/19/1997	8.00		2.7
GP-15	12/19/1997	12.00		1U
GP-15	12/19/1997	16.00		1U
GP-15	12/19/1997	20.00		1U
GP-15	12/19/1997	25.00		1.4
GP-15	12/19/1997	28.00		1U
GP-15	12/19/1997	32.00		1U
GP-15	12/19/1997	36.00		1U
GP-16	12/29/1997	4.00		1.7
GP-16	12/29/1997	8.00		3.8
GP-16	12/29/1997	12.00		1U
GP-16	12/29/1997	16.00		1U
GP-16	12/29/1997	20.00		1U
GP-17	12/29/1997	4.00		7.3
GP-17	12/29/1997	8.00		[24.5] ✓
GP-17	12/29/1997	12.00		1U
GP-17	12/29/1997	13.00		1U
GP-18	12/15/1999	1.50		1.7
GP-18	12/15/1999	2.50		1U
GP-18	12/15/1999	3.50		4.1
GP-18	12/15/1999	4.50		[16.7]
GP-18	12/15/1999	5.50		6.4
GP-18	12/15/1999	6.50		1U
GP-18	12/15/1999	7.50		1.9
GP-19	12/15/1999	3.50		1U
GP-19	12/15/1999	7.50		3.4
GP-19	12/15/1999	11.50		1U
GP-19	12/15/1999	12.50		1U
GP-20	12/15/1999	3.50		1U
GP-20	12/15/1999	7.50		5.0
GP-20	12/15/1999	11.50		1U
GP-20A	04/22/1999	1.00		1U
GP-20A	04/22/1999	3.00		1U
GP-20A	04/22/1999	5.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm.CriteriaCTDEP Jan. 1996				10
GB MobilityCriteriaCTDEP Jan. 1996				
GP-20A	04/22/1999	7.00		8.2
GP-20A	04/22/1999	9.00		1.1
GP-20A	04/22/1999	11.00		1U
GP-22	12/15/1999	0.50		1U
GP-22	12/15/1999	1.50		1U
GP-22	12/15/1999	2.50		1U
GP-22	12/15/1999	3.50		1U
GP-22	12/15/1999	4.50		1U
GP-22	12/15/1999	5.50		1.5
GP-22	12/15/1999	6.50		1U
GP-22	12/15/1999	7.50		1U
GP-23	12/15/1999	0.50		1U
GP-23	12/15/1999	1.50		1U
GP-23	12/15/1999	2.50		1U
GP-23	12/15/1999	3.50		1U
GP-23	12/15/1999	4.50		1U
GP-23	12/15/1999	5.50		9.3
GP-23	12/15/1999	6.50		3.2
GP-23	12/15/1999	7.50		8.4
GP-23	12/15/1999	8.50		6.7
GP-23	12/15/1999	9.50		3.9
GP-24	12/15/1999	0.50		1U
GP-24	12/15/1999	1.50		1U
GP-24	12/15/1999	2.50		2.0
GP-24	12/15/1999	3.50		2.3
GP-24	12/15/1999	4.50		1.8
GP-24	12/15/1999	5.50		1.0
GP-24	12/15/1999	6.50		1U
GP-24	12/15/1999	7.50		7.9
GP-24	12/15/1999	8.50		1U
GP-24	12/15/1999	9.50		7.5
GP-24	12/15/1999	10.50		1U
GP-24	12/15/1999	11.50		1U
GP-24	12/15/1999	12.50		1U
GP-24	12/15/1999	13.50		1U
GP-24	12/15/1999	14.50		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
 Summary of Soil Analytical Data
 PCB Remediation Area

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
GP-24	12/15/1999	16.00		1U
GP-30	04/22/1999	1.00		1U
GP-30	04/22/1999	3.00		1U
GP-30	04/22/1999	5.00		3.8
GP-30	04/22/1999	7.00		5.4
GP-30	04/22/1999	9.00		1U
GP-30	04/22/1999	11.00		1U
GP-31	04/22/1999	1.00		1U
GP-31	04/22/1999	3.00		1U
GP-31	04/22/1999	5.00		1U
GP-31	04/22/1999	7.00		7.1
GP-31	04/22/1999	9.00		1U
GP-31	04/22/1999	11.00		1U
GP-32	04/22/1999	1.00		1U
GP-32	04/22/1999	3.00		1U
GP-32	04/22/1999	5.00		1.2
GP-32	04/22/1999	7.00		8.7
GP-32	04/22/1999	9.00		2.6
GP-32	04/22/1999	11.00		1U
GP-33	04/22/1999	1.00		1U
GP-33	04/22/1999	3.00		1U
GP-33	04/22/1999	5.00		1U
GP-33	04/22/1999	7.00		1U
GP-33	04/22/1999	9.00		1U
GP-33	04/22/1999	10.50		1U
GP-35	04/22/1999	1.00		1U
GP-35	04/22/1999	3.00		1U
GP-36	04/22/1999	1.00		1U
GP-36	04/22/1999	3.00		1.5
GP-38	04/23/1999	1.00		1U
GP-38	04/23/1999	3.00		1U
GP-38	04/23/1999	6.00		2.5
GP-38	04/23/1999	7.00		6.3
GP-39	04/23/1999	1.00		1U
GP-39	04/23/1999	3.00		1U
GP-39	04/23/1999	5.00		1U

Only those parameters detected are shown.
 RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
PCB Remediation Area

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
GP-39	04/23/1999	7.00		2.6
GP-40	04/23/1999	1.00		1U
GP-40	04/23/1999	3.00		1U
GP-40	04/23/1999	5.00		1U
GP-40	04/23/1999	7.00		1U
GP-41	04/23/1999	1.00		1U
GP-41	04/23/1999	3.00		1U
GP-41	04/23/1999	5.00		1U
GP-41	04/23/1999	7.00		1U
GP-41	04/23/1999	9.00		1U
GP-41	04/23/1999	11.00		1U
GP-621	12/15/1999	0.50		1U
GP-621	12/15/1999	1.50		1U
GP-621	12/15/1999	2.50		1U
GP-621	12/15/1999	3.50		1U
GP-621	12/15/1999	4.50		1U
GP-621	12/15/1999	5.50		1U
GP-621	12/15/1999	6.50		1U
GP-621	12/15/1999	7.50		1U
GP-621	12/15/1999	8.50		1U
GP-621	12/15/1999	9.50		1U
GP-621	12/15/1999	10.50		1U
GP-621	12/15/1999	11.50		1U
MW-050	10/12/1999	1.00	MW50	1U
MW-050	10/12/1999	3.00		1U
MW-050	10/12/1999	5.00		1.4
MW-050	10/12/1999	9.00		1U
MW-050	10/12/1999	11.00		1U
MW-051	10/12/1999	1.00		1U
MW-051	10/12/1999	3.00		1U
MW-051	10/12/1999	5.00		1U
MW-051	10/12/1999	7.00		1.7
MW-051	10/12/1999	9.00		1U
MW-051	10/12/1999	11.00		1U
MW-052	10/12/1999	5.00		1U
MW-053	10/12/1999	1.00		1U

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

English Station
Summary of Soil Analytical Data
PCB Remediation Area

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive
SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
MW-053	10/12/1999	3.00		1U
MW-053	10/12/1999	5.00		1U
MW-053	10/12/1999	7.00		2.6
MW-053	10/12/1999	9.00		1U
MW-053	10/12/1999	11.00		1U
MWP-01	12/15/1999	1.00		4.3
MWP-01	12/15/1999	3.00		1U
MWP-01	12/15/1999	5.00		5.6
MWP-01	12/15/1999	7.00		2.9
MWP-01	12/15/1999	9.00		1U
MWP-01	12/15/1999	11.00		1.1
MWP-01	12/15/1999	13.00		1U
MWP-01	12/15/1999	15.00		1U
MWP-01	12/15/1999	20.00		1U
MWP-01	12/15/1999	25.00		1U
MWP-01	12/15/1999	30.00		1U
MWP-01	12/15/1999	35.00		1U
MWP-01	12/15/1999	40.00		1U
MWP-01	12/15/1999	45.00		1U
MWP-01	12/15/1999	50.00		1U
MWP-01	12/15/1999	55.00		1U
MWP-01	12/15/1999	65.00		1U
MWP-02	12/15/1999	1.00		2.8
MWP-02	12/15/1999	3.00		1.9
MWP-02	12/15/1999	5.00		[33.2] ✓
MWP-02	12/15/1999	7.00		[10.6] ✓
MWP-02	12/15/1999	9.00		1U
MWP-02	12/15/1999	11.00		1U
MWP-02	12/15/1999	13.00		1U
MWP-02	12/15/1999	15.00		1U
MWP-02	12/15/1999	20.00		1U
MWP-02	12/15/1999	25.00		1U
MWP-02	12/15/1999	30.00		1U
MWP-02	12/15/1999	35.00		1U
MWP-02	12/15/1999	40.00		1U
MWP-02	12/15/1999	45.00		1U

Only those parameters detected are shown.
RSR exceedences are bracketed.

[] = Greater than Action Level NA = Not analyzed

English Station
Summary of Soil Analytical Data
PCB Remediation Area

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive

SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
MWP-02	12/15/1999	50.00		1U
MWP-02	12/15/1999	55.00		1U
MWP-02	12/15/1999	60.00		1U
MWP-02	12/15/1999	65.00		1U
MWP-02	12/15/1999	70.00		1U
MWP-03	12/15/1999	1.00		1U
MWP-03	12/15/1999	3.00		1U
MWP-03	12/15/1999	5.00		4.6
MWP-03	12/15/1999	7.00		[11.9] ✓
MWP-03	12/15/1999	9.00		1U
MWP-03	12/15/1999	11.00		1U
MWP-03	12/15/1999	13.00		1U
MWP-03	12/15/1999	15.00		1U
MWP-03	12/15/1999	20.00		1U
MWP-03	12/15/1999	25.00		1U
MWP-03	12/15/1999	30.00		1U
MWP-03	12/15/1999	35.00		1U
MWP-03	12/15/1999	40.00		1U
MWP-03	12/15/1999	45.00		1U
MWP-03	12/15/1999	50.00		1U
MWP-03	12/15/1999	55.00		1U
MWP-03	12/15/1999	60.00		1U
MWP-03	12/15/1999	65.00		1U
MWP-03	12/15/1999	70.00		1U
MWP-04	12/15/1999	1.00		4.5
MWP-04	12/15/1999	3.00		1U
MWP-04	12/15/1999	5.00		4.5
MWP-04	12/15/1999	7.00		3.4
MWP-04	12/15/1999	9.00		1U
MWP-04	12/15/1999	11.00		1U
MWP-04	12/15/1999	13.00		1U
MWP-04	12/15/1999	16.00		1U
MWP-04	12/15/1999	20.00		1U
MWP-04	12/15/1999	25.00		1U
MWP-04	12/15/1999	30.00		1U
MWP-04	12/15/1999	35.00		1U

Only those parameters detected are shown.
RSR exceedences are bracketed.

[]=Greater than Action Level NA=Not analyzed

English Station
Summary of Soil Analytical Data
PCB Remediation Area

Date: 05/03/2000

PERIOD: From 12/12/1997 thru 12/15/1999 - Inclusive
SAMPLE TYPE: Soil

SITE	DATE	DEPTH	SAMPLE ID	PCB's (mg/kg)
Indust./Comm. Criteria CTDEP Jan. 1996				10
GB Mobility Criteria CTDEP Jan. 1996				
MWP-04	12/15/1999	40.00		1U
MWP-04	12/15/1999	45.00		1U
MWP-04	12/15/1999	50.00		1U
MWP-04	12/15/1999	55.00		1U
MWP-04	12/15/1999	60.00		1U
MWP-04	12/15/1999	65.00		1U
MWP-04	12/15/1999	70.00		1U

Only those parameters detected are shown.
RSR exceedences are bracketed.

NA=Not analyzed

Table 1
(page 1 of 3)
SITE-WIDE SOIL SAMPLE MASS ANALYSIS (TOTAL) ARSENIC CONCENTRATIONS

Site Area	Location	Sample ID	Sample Date	Sample Depth (ft)	Arsenic Conc. (mg/kg)	Arsenic Conc. SPLP (mg/L)
AOC-1	MW-003	ES-MW3 (15-17)	6/4/98	16	2.3	ND<0.05
AOC-1	TB-006	ES-TB6 (1-7)	6/4/98	4	6.1	ND<0.05
AOC-1	TB-007A	ES-TB7A (7-9)	6/4/98	8	2.8	ND<0.05
AOC-1	TB-217	TB-217 (0-2)	3/30/00	1	6.9	NT
AOC-1	TB-217	TB-217 (2-4)	3/30/00	3	7.9	NT
AOC-10	MW-12	ES-MW12 (2-4)	6/1/98	3	ND<1.0	ND<0.05
AOC-10	MW-13	ES-MW13 (13-15)	6/1/98	14	ND<1.0	ND<0.05
AOC-10	MW-14D	ES-MW14D (26-28)	6/11/98	27	10.5	ND<0.05
AOC-10	MW-14S	ES-MW14S (1-3)	6/1/98	2	6.7	ND<0.05
AOC-10/13	MW-20	ES-MW20 (11-13)	5/27/98	12	4.3	NT
AOC-10/13	TB-018A	ES-TB18A (16-18)	5/28/98	17	10.7	ND<0.05
AOC-12	MW-004D	ES-MW4D (36-40)	6/10/98	38	ND<1.0	ND<0.05
AOC-12	MW-004S	ES-MW4S (11-13)	5/27/98	12	39.4	ND<0.05
AOC-12	MW-005	ES-MW5 (2-4)	5/26/98	3	47.2	ND<0.05
AOC-12	MW-006	ES-MW6 (5-9)	6/9/98	7	68.6	0.06
AOC-12	MW-007	ES-MW7 (7-9)	6/4/98	8	14.7	ND<0.05
AOC-12	MW-009A	ES-MW9A (0-2)	5/26/98	1	18.3	ND<0.05
AOC-12	MW-010	ES-MW10 (9-11)	6/9/98	10	3.6	ND<0.05
AOC-12	MW-22	ES-MW22 (7-9)	6/9/98	8	23.0	ND<0.05 ⁽¹⁾
AOC-12	SED-01	ES-SED1 (1)	6/12/98	1	16.3	ND<0.05
AOC-12	TB-005	ES-TB5 (4-6)	6/4/98	5	4.9	ND<0.05
AOC-12	TB-009	ES-TB9 (3-7)	6/4/98	5	93.0	ND<0.05
AOC-12	TB-010	ES-TB010 (11-13)	6/4/98	12	13.8	ND<0.05
AOC-12	TB-104	ES-TB-104 (2-4)	6/30/98	3	10.1	NT
AOC-12	TB-104	TB-104 (4-6)	6/30/98	5	7.2	NT
AOC-12	TB-106	TB-106 (3-5)	6/30/98	4	3.3	NT
AOC-12	TB-107	TB-107 (2-4)	7/1/98	3	34.4	NT
AOC-12	TB-107	TB-107 (6-8)	7/1/98	7	11.8	NT
AOC-12	TB-230	TB-230 (2-4)	4/3/00	3	5.0	NT
AOC-12	TB-231	TB-231 (0-2)	4/3/00	1	11.5	NT
AOC-12	TB-232	TB-232 (2-4)	4/3/00	3	11.5	NT
AOC-12	TB-233	TB-233 (2-4)	4/3/00	3	32.3	NT
AOC-12	TB-234	TB-234 (0-2)	4/3/00	1	12.4	NT
AOC-12	TB-235	TB-235 (2-4)	4/3/00	3	22.8	NT
AOC-12	HA-03	HA-3 (0-2)	3/31/00	1	16.1	NT
AOC-12	TB-236	TB-236 (0-2)	4/3/00	1	3.6	NT
AOC-12	TB-237	TB-237 (0-2)	4/3/00	1	7.9	NT
AOC-12	TB-239	TB-239 (0-2)	4/3/00	1	4.3	NT
AOC-12	TB-240	TB-240 (2-4)	4/3/00	3	3.0	NT

Table 1
(page 2 of 3)

SITE-WIDE SOIL SAMPLE MASS ANALYSIS (TOTAL) ARSENIC CONCENTRATIONS

Site Area	Location	Sample ID	Sample Date	Sample Depth (ft)	Arsenic Conc. (mg/kg)	Arsenic Conc. SPLP (mg/L)
AOC-12	TB-241	TB-241 (1-3)	4/3/00	2	7.3	NT
AOC-12	TB-242	TB-242 (1-3)	4/3/00	2	5.5	NT
AOC-12/-3	TB-008A	ES-TB8A (1-3)	6/4/98	2	23.1	ND<0.05
AOC-12/-3	TB-008B	ES-TB8B (15-17)	6/4/98	16	6.6	ND<0.05
AOC-13	TB-200	TB-200 (0-2)	3/30/00	1	2.9	ND<0.05
AOC-13	TB-201	TB-201 (0-2)	3/30/00	1	1.9	ND<0.05
AOC-13	TB-202	TB-202 (2-4)	3/30/00	3	4.2	ND<0.05
AOC-13	TB-203	TB-203 (0-2)	3/30/00	1	3.7	ND<0.05
AOC-13	TB-204	TB-204 (2-4)	3/30/00	3	3.0	ND<0.05
AOC-13	TB-205	TB-205 (2-4)	3/30/00	3	6.1	ND<0.05
AOC-13	TB-206	TB-206 (2-4)	3/30/00	3	9.3	ND<0.05 ¹⁾
AOC-2	MW-001	ES-MW1 (5-7)	6/2/98	6	1.4	ND<0.05
AOC-2	MW-002	ES-MW2 (13-17)	6/2/98	15	1.5	ND<0.05
AOC-2	TB-001	ES-TB1 (7-8)	6/2/98	7.5	ND<1.0	ND<0.05
AOC-7	TB-207	TB-207 (0-2)	3/30/00	1	3.9	ND<0.05
AOC-7	TB-208	TB-208 (0-2)	3/30/00	1	2.8	ND<0.05
AOC-7	TB-209	TB-209 (2-4)	3/30/00	3	5.2	ND<0.05
AOC-7	TB-210	TB-210 (0-2)	3/30/00	1	2.2	ND<0.05
AOC-7/-13	AST-01	ES AST1 (2)	6/11/98	2	1.5	NT
AOC-7/-13	MW-018	ES-MW18 (14-16)	5/28/98	15	2.8	ND<0.05
AOC-7/-13	MW-021	ES-MW21 (7-9)	5/28/98	8	2.1	ND<0.05
AOC-7/-13	MW-021	ES-MW21 (11-13)	5/28/98	12	1.2	ND<0.05
AOC-7/-13	SED-02	ES-SED2 (0.5)	6/12/98	0.50	5.3	ND<0.05
AOC-7/-13	TB-18	ES-TB18 (12-14)	5/28/98	13	4.5 ⁽²⁾	ND<0.05
AOC-8	MW-017D	ES-MW17D (26-28)	6/10/98	27	8.3	ND<0.05
AOC-8	MW-017S	ES-MW17 (4-6)	5/29/98	5	2.7	ND<0.05
AOC-8	MW-16	ES-MW16 (6-8)	5/29/98	7	4.6	ND<0.05
AOC-8	SS-001	ES-SS1D (0.5)	6/19/98	0.50	4.0	ND<0.05
AOC-8	SS-001	ES-SS1S (0)	6/19/98	0	ND<1.0	ND<0.05
AOC-8	TB-021	ES-TB21 (0-2)	5/29/98	1	2.4	ND<0.05
AOC-8	TB-024	ES-TB24 (6-8)	5/29/98	7	ND<1.0	ND<0.05
AOC-8	TB-025	ES-TB25 (2-4)	5/29/98	3	1.9	ND<0.05
AOC-8	TB-211	TB-211 (0-2)	3/30/00	1	3.0	ND<0.05
AOC-8	TB-212	TB-212 (2-4)	3/30/00	3	6.3	ND<0.05
AOC-9	HA-02	HA-02	3/30/00	0.95	230	ND<0.05
AOC-9	SS-101	SS-01	3/30/00	0.15	150	ND<0.05
AOC-9	SS-102	SS-02	3/30/00	0.15	5.4	ND<0.05

Table 1
(page 3 of 3)

SITE-WIDE SOIL SAMPLE MASS ANALYSIS (TOTAL) ARSENIC CONCENTRATIONS

Site Area	Location	Sample ID	Sample Date	Sample Depth (ft)	Arsenic Conc. (mg/kg)	Arsenic Conc. SPLP (mg/L)
AOC-9	SS-103	SS-03	3/30/00	0.15	116	ND<0.05
SW of Plant	TB-213	TB-213 (2-4)	3/30/00	3	2.9	ND<0.05
SW of Plant	TB-216	TB-216 (0-2)	3/30/00	1	4.4	ND<0.05

Notes:

mg/kg = Milligrams per kilogram.

NT = Not tested.

ND = Not detected.

< = Less than minimum detection limit of the analytical method used.

AOC = Area of Concern.

SPLP = Synthetic Precipitation Leaching Procedure.

(1) = SPLP cadmium was detected at a concentration of 0.052 milligrams per liter (mg/L), which exceeds the GBPMC for cadmium of 0.05 mg/L. However, the GBPMC do not apply to this sample because it was collected from below the water table.

(2) = Mass analysis (total) lead was detected at a concentration of 2,160 mg/kg, which exceeds the IDEC for lead of 1,000 mg/kg.

Table 2
(page 1 of 2)

SOIL SAMPLE MASS ANALYSIS (TOTAL) ARSENIC CONCENTRATIONS IN/AROUND
FORMER COAL STORAGE AREA

Site Area	Location	Sample ID	Sample Date	Sample Depth (ft)	Arsenic Conc. (mg/kg)	Arsenic Conc. SPLP (mg/L)
AOC-1	MW-003	ES-MW3 (15-17)	6/4/98	16	2.3	ND<0.05
AOC-1	TB-006	ES-TB6 (1-7)	6/4/98	4	6.1	ND<0.05
AOC-1	TB-007A	ES-TB7A (7-9)	6/4/98	8	2.8	ND<0.05
AOC-1	TB-217	TB-217 (0-2)	3/30/00	1	6.9	NT
AOC-1	TB-217	TB-217 (2-4)	3/30/00	3	7.9	NT
AOC-12	MW-004D	ES-MW4D (36-40)	6/10/98	38	ND<1.0	ND<0.05
AOC-12	MW-004S	ES-MW4S (11-13)	5/27/98	12	39.4	ND<0.05
AOC-12	MW-005	ES-MW5 (2-4)	5/26/98	3	47.2	ND<0.05
AOC-12	MW-006	ES-MW6 (5-9)	6/9/98	7	68.6	0.06
AOC-12	MW-007	ES-MW7 (7-9)	6/4/98	8	14.7	ND<0.05
AOC-12	MW-009A	ES-MW9A (0-2)	5/26/98	1	18.3	ND<0.05
AOC-12	MW-010	ES-MW10 (9-11)	6/9/98	10	3.6	ND<0.05
AOC-12	MW-22	ES-MW22 (7-9)	6/9/98	8	23.0	ND<0.05 ⁽¹⁾
AOC-12	SED-01	ES-SED1 (1)	6/12/98	10	16.3	ND<0.05
AOC-12	TB-005	ES-TB5 (4-6)	6/4/98	5	4.9	ND<0.05
AOC-12	TB-009	ES-TB9 (3-7)	6/4/98	5	93.0	ND<0.05
AOC-12	TB-010	ES-TB010 (11-13)	6/4/98	12	13.8	ND<0.05
AOC-12	TB-104	ES-TB-104 (2-4)	6/30/98	3	10.1	NT
AOC-12	TB-104	TB-104 (4-6)	6/30/98	5	7.2	NT
AOC-12	TB-106	TB-106 (3-5)	6/30/98	4	3.3	NT
AOC-12	TB-107	TB-107 (2-4)	7/1/98	3	34.4	NT
AOC-12	TB-107	TB-107 (6-8)	7/1/98	7	11.8	NT
AOC-12	TB-230	TB-230 (2-4)	4/3/00	3	5.0	NT
AOC-12	TB-231	TB-231 (0-2)	4/3/00	1	11.5	NT
AOC-12	TB-232	TB-232 (2-4)	4/3/00	3	11.5	NT
AOC-12	TB-233	TB-233 (2-4)	4/3/00	3	32.3	NT
AOC-12	TB-234	TB-234 (0-2)	4/3/00	1	12.4	NT
AOC-12	TB-235	TB-235 (2-4)	4/3/00	3	22.8	NT
AOC-12	HA-03	HA-3 (0-2)	3/31/00	1	16.1	NT
AOC-12	TB-236	TB-236 (0-2)	4/3/00	1	3.6	NT
AOC-12	TB-237	TB-237 (0-2)	4/3/00	1	7.9	NT
AOC-12	TB-239	TB-239 (0-2)	4/3/00	1	4.3	NT
AOC-12	TB-240	TB-240 (2-4)	4/3/00	3	3.0	NT
AOC-12	TB-241	TB-241 (1-3)	4/3/00	2	7.3	NT
AOC-12	TB-242	TB-242 (1-3)	4/3/00	2	5.5	NT
AOC-12/-3	TB-008A	ES-TB8A (1-3)	6/4/98	2	23.1	ND<0.05
AOC-12/-3	TB-008B	ES-TB8B (15-17)	6/4/98	16	6.6	ND<0.05

Table 2
(page 2 of 2)
**SOIL SAMPLE MASS ANALYSIS (TOTAL) ARSENIC CONCENTRATIONS IN/AROUND
FORMER COAL STORAGE AREA**

Site Area	Location	Sample ID	Sample Date	Sample Depth (ft)	Arsenic Conc. (mg/kg)	Arsenic Conc. SPLP (mg/L)
AOC-9	HA-02	HA-02	3/30/00	0.95	230	ND<0.05
AOC-9	SS-101	SS-01	3/30/98	0.15	150	ND<0.05
AOC-9	SS-102	SS-02	3/30/98	0.15	5.4	ND<0.05
AOC-9	SS-103	SS-03	3/30/98	0.15	116	ND<0.05

Notes:

mg/kg = Milligrams per kilogram.

NT = Not tested.

ND = Not detected.

< = Less than minimum detection limit of the analytical method used.

AOC = Area of Concern.

SPLP = Synthetic Precipitation Leaching Procedure.

(1) = SPLP cadmium was detected at a concentration of 0.052 milligrams per liter (mg/L), which exceeds the GBPMC for cadmium of 0.05 mg/L. However, the GBPMC do not apply to this sample because it was collected from below the water table.

Table 1

**SUMMARY OF SITE CHARACTERIZATION RESULTS
FOR PCB AREA 1: STATION B**

Table 1.1 (page 1 of 2)

Overhead Crane (page 1 of 2)

AOC #:	1
Cleanup Area Description:	Overhead crane: motor and non-porous steel surface
Location Reference:	Figure 4.1
Sample Matrix:	Motor oil / hexane wipe of steel surface
Analysis:	US EPA Method 8082
Units:	Micrograms per 100 square centimeters ($\mu\text{g}/100 \text{ sq. cm}$)
Laboratory Results In:	Appendix C

Characterization Samples			Verification Samples			Cleanup Criterion
Sample ID	Sampling Date (Analysis Date)	Sample Result	Sample ID	Sampling Date (Analysis Date)	Sample Result	
MOTOR OIL			MOTOR OIL			MOTOR OIL
NEM ⁽¹⁾	7/18/01 (7/25/01)	6.6 ⁽¹⁾	RS-CS 1 ⁽¹⁾	3/21/02 (3/28/02)	ND<2.0 ⁽¹⁾	2.0
SEM ⁽¹⁾	7/18/01 (7/25/01)	6.6 ⁽¹⁾				2.0
11-16-MISC-113 ^(1,2)	11/18/99 (11/29/99)	4.0 ⁽¹⁾				2.0
HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE
CR-CS 1	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 2	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 3	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 4	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 5	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 6	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 7	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 8	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 9	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 10	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 11	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 12	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 13	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 14	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 15	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 16	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 17	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 18	3/21/02 (4/4/02)	ND<5.0	CR-CS 18B	4/19/02 (4/23/02)	ND<5.0	10.0
CR-CS 19	3/21/02 (3/26/02)	25	CR-CS 19B	4/19/02 (4/23/02)	ND<5.0	10.0
CR-CS 20	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 21	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 22	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 23	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 24	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 25	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 26	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 27	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 28	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 29	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 30	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 31	3/21/02 (3/26/02)	ND<5.0				10.0

Table 1.1 (page 2 of 2)

Overhead Crane (page 2 of 2)

AOC #:	1
Cleanup Area Description:	Overhead crane: motor and non-porous steel surface
Location Reference:	Figure 4.1
Sample Matrix:	Motor oil / hexane wipe of steel surface
Analysis:	US EPA Method 8082
Units:	Micrograms per 100 square centimeters (µg/100 sq. cm)
Laboratory Results In:	Appendix C

Characterization Samples

Verification Samples

Sample ID	Sampling Date (Analysis Date)	Sample Result	Sample ID	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE
CR-CS 32	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 33	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 34	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 35	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 36	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 37	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 38	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 39	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 40	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 41	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 42	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 43	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 44	3/21/02 (3/26/02)	ND<5.0				10.0
CR-CS 45	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 46	3/21/02 (4/4/02)	ND<5.0				10.0
CR-CS 47	3/21/02 (3/26/02)	ND<5.0				10.0
Field Blank 1	3/21/02 (3/26/02)	ND<5.0				NA
Field Blank 2	3/21/02 (4/12/02)	ND<5.0				NA
Field Blank 3	3/21/02 (4/12/02)	ND<5.0				NA

Notes for Table 1.1:

(1) = Sample of oil from a motor on the crane. Result reported as milligrams per kilogram (mg/kg), wet weight.

(2) = Result reported by GEI Consultants, Inc., who did not indicate that the result is reported as wet weight.

NA = Not applicable.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 1.2 (page 1 of 2)

Interior Areas—porous surfaces (page 1 of 2)

AOC #:	1
Cleanup Area Description:	Interior areas: porous concrete and wood
Location Reference:	Figure 4.1 (Not all GEI sample locations are shown.)
Sample Matrix:	Concrete / wood
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix C

Characterization Samples			Verification Samples ⁽¹⁾			Cleanup Criterion
Sample ID	Sampling Date (Analysis Date)	Sample Result	Sample ID	Sampling Date (Analysis Date)	Sample Result	
ANNEX III CONCRETE FLOOR			ANNEX III CONCRETE FLOOR			CONCRETE
A-1	7/18/01 (7/20/01)	ND<0.50				1.0
A-2	7/18/01 (7/20/01)	ND<0.50				1.0
A-3	7/18/01 (7/20/01)	ND<0.50				1.0
A-4	7/18/01 (7/20/01)	ND<0.50				1.0
B-1	7/18/01 (7/20/01)	17.4	J-1	5/9/02 (5/13/02)	ND<0.50	1.0
B-2	7/18/01 (7/20/01)	45	J-2	5/9/02 (5/13/02)	ND<0.50	1.0
B-3	7/18/01 (7/20/01)	2.4	J-3	5/9/02 (5/13/02)	ND<0.50	1.0
B-4	7/18/01 (7/20/01)	ND<0.50	J-4	5/9/02 (5/13/02)	ND<0.50	1.0
C-1	7/18/01 (7/20/01)	1.3	I-1	5/9/02 (5/13/02)	0.50	1.0
C-2	7/18/01 (7/20/01)	1.5	I-2	5/9/02 (5/13/02)	1.6	1.0
C-3	7/18/01 (7/20/01)	0.98	I-3	5/9/02 (5/13/02)	1.1	1.0
			I-3a ⁽²⁾	5/9/02 (5/13/02)	0.65	1.0
C-4	7/18/01 (7/20/01)	ND<0.50	I-4	5/9/02 (5/13/02)	ND<0.50	1.0
D-1	7/18/01 (7/20/01)	0.94	H-1	5/9/02 (5/13/02)	ND<0.50	1.0
D-2	7/18/01 (7/20/01)	0.77	H-2	5/9/02 (5/13/02)	ND<0.50	1.0
D-3	7/18/01 (7/20/01)	ND<0.50	H-3	5/9/02 (5/13/02)	ND<0.50	1.0
D-4	7/18/01 (7/20/01)	ND<0.50				1.0
E-1	7/18/01 (7/20/01)	0.69				1.0
E-2	7/18/01 (7/20/01)	0.98				1.0
E-3	7/18/01 (7/20/01)	0.51				1.0
E-4	7/18/01 (7/20/01)	ND<1.0				1.0
SE-1	7/18/01 (7/20/01)	0.80				1.0
F-2	7/18/01 (7/20/01)	ND<0.50				1.0
F-3	7/18/01 (7/20/01)	ND<1.0 ⁽³⁾				1.0
F-4	7/18/01 (7/20/01)	ND<1.0 ⁽³⁾				1.0
SF-1	7/18/01 (7/20/01)	ND<1.0 ⁽³⁾				1.0
SF-3	7/18/01 (7/20/01)	ND<1.0 ⁽³⁾				1.0
G-2	7/18/01 (7/20/01)	ND<1.0 ⁽³⁾				1.0
G-3	7/18/01 (7/20/01)	ND<1.0 ⁽³⁾				1.0
						1.0
CS-5 ⁽⁵⁾	6/11/98 (6/23/98)	15	Field blank	5/9/02 (5/13/02)	ND<0.50 ⁽⁴⁾	NA
						1.0
11-16-MISC-114 ⁽⁵⁾	11/18/99 (11/29/99)	ND<1.0				1.0
11-16-MISC-115 ⁽⁵⁾	11/18/99 (11/29/99)	ND<1.0				1.0
11-16-MISC-116 ⁽⁵⁾	11/18/99 (11/29/99)	ND<1.0				1.0

Table 1.2 (page 2 of 2)

Interior Areas—porous surfaces (page 2 of 2)

AOC #:	1
Cleanup Area Description:	Interior areas: porous concrete and wood
Location Reference:	Figure 4.1 (Not all GEI sample locations are shown.)
Sample Matrix:	Concrete core / wood chips
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix C

Characterization Samples			Verification Samples			Cleanup Criterion
Sample ID	Sampling Date (Analysis Date)	Sample Result	Sample ID	Sampling Date (Analysis Date)	Sample Result	
FIRST FLOOR OIL-STAINED CONCRETE FLOOR			FIRST FLOOR OIL-STAINED CONCRETE FLOOR			CONCRETE
11-16-MISC-121 ⁽⁵⁾	11/19/99 (12/1/99)	ND<1.0				1.0
FIRST FLOOR OIL-STAINED WOOD CHIPS			FIRST FLOOR OIL-STAINED WOOD CHIPS			WOOD
11-16-MISC-123 ⁽⁵⁾	11/19/99 (12/1/99)	ND<1.0				1.0
BASEMENT FLOOR CONCRETE PADS			BASEMENT FLOOR CONCRETE PADS			CONCRETE
11-16-MISC-117 ⁽⁵⁾	11/18/99 (11/29/99)	ND<1.0				1.0
11-16-MISC-118 ⁽⁵⁾	11/18/99 (11/29/99)	ND<1.0				1.0
11-16-MISC-119 ⁽⁵⁾	11/18/99 (11/29/99)	ND<1.0				1.0
11-16-MISC-120 ⁽⁵⁾	11/18/99 (11/29/99)	1.0				1.0
11-16-MISC-122 ⁽⁵⁾	11/19/99 (12/1/99)	ND<1.0				1.0
SECOND FLOOR WOOD CHIPS			SECOND FLOOR WOOD CHIPS			WOOD
11-16-MISC-124 ⁽⁵⁾	11/19/99 (12/1/99)	ND<1.0				1.0
11-16-MISC-125 ⁽⁵⁾	11/19/99 (12/1/99)	ND<1.0				1.0

Notes for Table 1.2:

- (1) = Sample locations selected using a 1.5-meter grid.
 - (2) = Duplicate sample.
 - (3) = Minimum detection limit (MDL) affected by matrix interference.
 - (4) = Units are micrograms per liter (µg/L).
 - (5) = Result reported by GEI Consultants, Inc., who did not indicate that the results are reported as dry weight.
- Bold** indicates that detected concentration exceeds associated cleanup criterion.

Table 1.3 (page 1 of 1)

Former Earthen Floor in Basement (page 1 of 1)

AOC #:	1
Cleanup Area Description:	Former earthen floor in basement: surface soil
Location Reference:	Figure 4.2
Sample Matrix:	Soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix C

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SURFACE SOIL				SOIL
SS-N	0.0-1.0	5/2/01 (5/18/01)	ND<0.50	1.0
SS-O	0.0-0.5	5/2/01 (5/4/01)	ND<0.50	1.0
SS-P	0.0-0.5	5/2/01 (5/4/01)	ND<0.50	1.0
SS-Q	0.0-0.5	5/2/01 (5/4/01)	ND<0.50	1.0
SS-R	0.0-0.5	5/2/01 (5/18/01)	ND<0.50	1.0
SS-S	0.0-0.5	5/2/01 (5/4/01)	ND<0.50	1.0
SS-T	0.0-0.5	5/2/01 (5/18/01)	ND<0.50	1.0

Table 2

**SUMMARY OF SITE CHARACTERIZATION RESULTS
FOR PCB AREA 2: FORMER COAL YARD AREA**

Table 2.1 (page 1 of 1)

Former Coal Yard—hand auger (page 1 of 1)

AOC #:	12
Cleanup Area Description:	Former coal yard: surface soil and catch basin sediment
Location Reference:	Figure 5
Sample Matrix:	Soil / catch basin sediment
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix D (also Appendices E and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SURFACE SOIL				SOIL
SS-D1	0.0–1.0	5/2/01 (5/4/01)	ND<0.50	10.0
SS-D2	0.0–0.5	5/2/01 (5/4/01)	ND<0.50	10.0
SS-X	0.0–0.6	5/14/01 (5/22/01)	ND<0.50	10.0
SS-Y	0.0–0.6	5/14/01 (5/22/01)	ND<0.50	10.0
SS-Z	0.0–0.6	5/14/01 (5/22/01)	ND<0.50	10.0
SS-CC	0.0–0.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-CC	0.3–1.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-DD	0.0–0.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-DD	0.3–1.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-EE	0.0–0.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-EE	0.3–1.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-FF ⁽¹⁾	0.0–0.3	4/3/02 (4/6/02)	0.80	10.0
SS-GG	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
SS-GG	1.0–1.5	4/3/02 (4/6/02)	ND<0.50	10.0
SS-HH	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
SS-II	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
SS-JJ	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
SS-KK ⁽¹⁾	0.0–0.3	4/3/02 (4/6/02)	0.83	10.0
SS-LL	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
SS-MM	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
SS-NN	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
SS-OO	0.0–0.3	4/3/02 (4/11/02)	ND<0.50	10.0
CATCH BASIN SEDIMENT				SEDIMENT
CB-1	NA	5/10/01 (5/15/01)	ND<0.50	10.0
CB-2	NA	5/10/01 (5/15/01)	3.8	10.0
CB-3	NA	5/10/01 (5/15/01)	ND<0.50	10.0

Notes for Table 2.1:

(1) = Sample also tested for leachable PCBs using the Synthetic Precipitation Leachate Procedure (SPLP). SPLP PCBs were not detected. **Bold** indicates that detected concentration exceeds associated cleanup criterion.

Table 2.2 (page 1 of 3)

Former Coal Yard—test boring (page 1 of 3)

AOC #:	12
Cleanup Area Description:	Former coal yard: test boring asphalt and soil
Location Reference:	Figure 5
Sample Matrix:	Asphalt / soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix D (also Appendices E and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
ASPHALT ⁽¹⁾				ASPHALT
TB-CCCC	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
TB-DDDD	0.0–0.3	4/3/02 (4/6/02)	ND<0.50	10.0
TB-EEEE	0.0–0.3	4/4/02 (4/8/02)	ND<0.50	10.0
TB-JJJJ	0.0–0.3	4/4/02 (4/8/02)	ND<0.50	10.0
TB-KKKK	0.0–0.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-MMMM	0.0–0.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-NNNN	0.0–0.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-OOOO	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-PPPP	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-RRRR	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-SSSS	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-UUUU	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-WWWWW	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-YYYY	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-DDDDD	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	10.0
SOIL				SOIL
TB-D/MW-C	2–4	5/11/01 (5/18/01)	ND<0.50	10.0
TB-F	0–2	5/11/01 (5/18/01)	ND<0.50	10.0
TB-R/MW-F	5–7	5/15/01 (5/18/01)	ND<0.50	10.0
TB-I	2–4	5/14/01 (5/18/01)	ND<0.50	10.0
TB-C/MW-BS	2–4	5/10/01 (5/15/01)	ND<0.50	10.0
TB-ZZZ	0.0–0.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-ZZZ	0.3–1.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-ZZZ	2.3–4.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-ZZZ	4.3–6.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-ZZZ	10–12	4/3/02 (4/8/02)	ND<0.50	10.0
TB-ZZZ	15–16	4/3/02 (4/6/02)	ND<0.50	10.0
TB-CCCC	2.5–2.8	4/3/02 (4/6/02)	ND<0.50	10.0
TB-CCCC	2.8–3.8	4/3/02 (4/6/02)	ND<0.50	10.0
TB-CCCC	4.5–6.0	4/3/02 (4/6/02)	ND<0.50	10.0
TB-CCCC	10–12	4/3/02 (4/6/02)	ND<0.50	10.0
TB-DDDD	1.3–1.6	4/3/02 (4/6/02)	ND<0.50	10.0
TB-DDDD	1.6–2.6	4/3/02 (4/6/02)	ND<0.50	10.0
TB-DDDD	3.3–4.3	4/3/02 (4/6/02)	ND<0.50	10.0
TB-DDDD	15–17	4/3/02 (4/6/02)	ND<0.50	10.0
TB-EEEE	1.5–1.8	4/4/02 (4/8/02)	ND<0.50	10.0
TB-EEEE	1.8–2.8	4/4/02 (4/8/02)	ND<0.50	10.0
TB-EEEE	3.8–5.8	4/4/02 (4/8/02)	ND<0.50	10.0
TB-EEEE	10–12	4/4/02 (4/8/02)	ND<0.50	10.0
TB-GGGG	0.0–0.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-GGGG	1–2	4/4/02 (4/9/02)	ND<0.50	10.0
TB-GGGG	2.3–4.3	4/4/02 (4/9/02)	ND<0.50	10.0

Table 2.2 (page 2 of 3)

Former Coal Yard—test boring (page 2 of 3)

AOC #:	12
Cleanup Area Description:	Former coal yard: test boring asphalt and soil
Location Reference:	Figure 5
Sample Matrix:	Asphalt / soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix D (also Appendices E and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SOIL				
TB-HHHH	0.0-0.3	4/4/02 (4/8/02)	ND<0.50	10.0
TB-HHHH	1.3-2.3	4/4/02 (4/8/02)	ND<0.50	10.0
TB-HHHH	2.3-4.3	4/4/02 (4/8/02)	ND<0.50	10.0
TB-HHHH	5-6	4/4/02 (4/8/02)	ND<0.50	10.0
TB-JJJJ	1.5-1.8	4/4/02 (4/8/02)	ND<0.50	10.0
TB-JJJJ	1.8-2.8	4/4/02 (4/8/02)	ND<0.50	10.0
TB-JJJJ	3.5-5.0	4/4/02 (4/8/02)	ND<0.50	10.0
TB-JJJJ	5.0-5.5	4/4/02 (4/8/02)	ND<0.50	10.0
TB-KKKK	1.0-1.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-KKKK	1.3-2.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-KKKK	5-6	4/4/02 (4/9/02)	ND<0.50	10.0
TB-KKKK ⁽²⁾	5-6	4/4/02 (4/9/02)	ND<0.50	10.0
TB-LLLL	0.0-0.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-LLLL	0.3-0.6	4/4/02 (4/9/02)	ND<0.50	10.0
TB-LLLL	0.6-1.6	4/4/02 (4/9/02)	ND<0.50	10.0
TB-LLLL	3.3-4.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-LLLL	4.3-6.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-MMMM	0.5-0.8	4/4/02 (4/9/02)	ND<0.50	10.0
TB-MMMM	0.8-1.8	4/4/02 (4/9/02)	ND<0.50	10.0
TB-MMMM	4.5-6.5	4/4/02 (4/9/02)	ND<0.50	10.0
TB-NNNN	1.0-1.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-NNNN	1.3-2.3	4/4/02 (4/9/02)	ND<0.50	10.0
TB-NNNN	4-5	4/4/02 (4/9/02)	ND<0.50	10.0
TB-OOOO	2.0-2.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-OOOO	4-5	4/5/02 (4/11/02)	ND<0.50	10.0
TB-PPPP	0.3-0.6	4/5/02 (4/11/02)	ND<0.50	10.0
TB-PPPP	0.9-1.0	4/5/02 (4/11/02)	ND<0.50	10.0
TB-PPPP	2.3-4.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-QQQQ	0.0-0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-QQQQ	0.3-2.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-QQQQ	2.3-4.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-RRRR	1.0-1.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-RRRR	3.3-3.9	4/5/02 (4/11/02)	ND<0.50	10.0
TB-RRRR	3.9-4.0	4/5/02 (4/11/02)	ND<0.50	10.0
TB-SSSS	2.2-2.5	4/5/02 (4/11/02)	ND<0.50	10.0
TB-SSSS	2.5-4.5	4/5/02 (4/11/02)	ND<0.50	10.0
TB-TTTT	0.0-0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-TTTT	1.0-1.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-TTTT	2.3-4.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-UUUU	1.2-1.5	4/5/02 (4/11/02)	ND<0.50	10.0
TB-UUUU	5-7	4/5/02 (4/11/02)	ND<0.50	10.0

Table 2.2 (page 3 of 3)

Former Coal Yard—test boring (page 3 of 3)

AOC #:	12
Cleanup Area Description:	Former coal yard: test boring asphalt and soil
Location Reference:	Figure 5
Sample Matrix:	Asphalt / soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix D (also Appendices E and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SOIL				SOIL
TB-VVVV	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-VVVV	0.5–2.5	4/5/02 (4/11/02)	ND<0.50	10.0
TB-VVVV	2.5–4.5	4/5/02 (4/11/02)	ND<0.50	10.0
TB-WWWW	2.2–2.5	4/5/02 (4/11/02)	ND<0.50	10.0
TB-WWWW	2.5–4.5	4/5/02 (4/11/02)	ND<0.50	10.0
TB-XXXX	0.0–0.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-XXXX	2.3–4.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-XXXX	4.3–6.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-YYYY	2.0–2.3	4/5/02 (4/11/02)	ND<0.50	10.0
TB-YYYY	2.5–3.0	4/5/02 (4/11/02)	ND<0.50	10.0
TB-YYYY	3–5	4/5/02 (4/10/02)	ND<0.50	10.0
TB-YYYY	5–7	4/5/02 (4/10/02)	ND<0.50	10.0
TB-ZZZZ	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	10.0
TB-ZZZZ	0.3–2.3	4/5/02 (4/10/02)	ND<0.50	10.0
TB-ZZZZ	2.3–4.3	4/5/02 (4/10/02)	ND<0.50	10.0
TB-DDDDD	0.5–0.8	4/5/02 (4/10/02)	ND<0.50	10.0
TB-EEEE	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	10.0
TB-EEEE	0.3–2.3	4/5/02 (4/10/02)	ND<0.50	10.0
TB-EEEE	2.3–4.3	4/5/02 (4/10/02)	ND<0.50	10.0
TB-5 ⁽³⁾	4–6	6/4/98 (6/12/98)	ND<1.0	10.0
TB-8A ⁽³⁾	1–3	6/4/98 (6/12/98)	ND<1.0	10.0
TB-8B ⁽³⁾	15–17	6/4/98 (6/12/98)	ND<1.0	10.0
TB-8B ⁽³⁾	9–11	6/4/98 (6/12/98)	ND<1.0	10.0
TB-9 ⁽³⁾	3–7	6/4/98 (6/12/98)	ND<1.0	10.0
TB-10 ⁽³⁾	11–13	6/4/98 (6/12/98)	ND<1.0	10.0
MW-7 ⁽³⁾	7–9	6/4/98 (6/12/98)	ND<1.0	10.0
MW-22 ⁽³⁾	7–9	6/9/98 (6/19/98)	ND<1.0	10.0
MW-6 ⁽³⁾	5–9	6/9/98 (6/19/98)	ND<1.0	10.0

Notes for Table 2.2:

- (1) = Sample may include some base material (e.g., cobbles or gravel).
- (2) = Duplicate sample.
- (3) = Result reported by GEI Consultants, Inc.

Table 3

**SUMMARY OF SITE CHARACTERIZATION RESULTS FOR
PCB AREA 3: ELECTRICAL INFRASTRUCTURE AND EXCAVATION AREA**

Table 3.1 (page 1 of 1)

Former Transformer Area (page 1 of 1)

AOC #:	9
Cleanup Area Description:	Former transformer area: non-porous steel grate, porous concrete pad, and sump
Location Reference:	Figures 6.1 and 6.5
Sample Matrix:	Hexane wipe of steel surface / concrete / sediment
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix E (also Appendices D, F, and H)

Characterization Samples

Sample ID	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE
TXFP-1 1	02/05/02 (2/11/02)	ND<5.0 ⁽¹⁾	10.0
TXFP-1 2	02/05/02 (2/11/02)	ND<5.0 ⁽¹⁾	10.0
TXFP-1 3	02/05/02 (2/11/02)	ND<5.0 ⁽¹⁾	10.0
TXFP-1 4	02/05/02 (2/11/02)	ND<5.0 ⁽¹⁾	10.0
CONCRETE PAD			CONCRETE
TXFP-1 A-1	02/05/02 (2/7/02)	ND<0.50	1.0
TXFP-1 A-2	02/05/02 (2/7/02)	ND<0.50	1.0
TXFP-1 A-3	02/05/02 (2/7/02)	ND<0.50	1.0
TXFP-1 A-4	02/05/02 (2/7/02)	1.5	1.0
TXFP-1 A-5	02/05/02 (2/7/02)	1.2	1.0
TXFP-1 B-1	02/05/02 (2/7/02)	0.83	1.0
TXFP-1 B-2	02/05/02 (2/7/02)	0.69	1.0
TXFP-1 B-3	02/05/02 (2/7/02)	ND<0.50	1.0
TXFP-1 B-4	02/05/02 (2/7/02)	0.61	1.0
TXFP-1 B-5	02/05/02 (2/7/02)	0.58	1.0
TXFP-1 C-1	02/05/02 (2/7/02)	ND<0.50	1.0
TXFP-1 C-2	02/05/02 (2/7/02)	0.85	1.0
TXFP-1 C-3	02/05/02 (2/7/02)	1.4	1.0
TXFP-1 C-4	02/05/02 (2/7/02)	2.2	1.0
TXFP-1 C-5	02/05/02 (2/7/02)	1.1	1.0
TXFP-1 D-1	02/05/02 (2/7/02)	ND<0.50	1.0
TXFP-1 D-2	02/05/02 (2/7/02)	4.0	1.0
TXFP-1 D-3	02/05/02 (2/7/02)	2.2	1.0
TXFP-1 D-4	02/05/02 (2/7/02)	2.1	1.0
TXFP-1 E-1	02/05/02 (2/7/02)	1.1	1.0
TXFP-1 E-2	02/05/02 (2/7/02)	1.1	1.0
TXFP-1 E-3	02/05/02 (2/7/02)	1.9	1.0
TXFP-1 E-4	02/05/02 (2/7/02)	1.8	1.0
TXFP-1 E-5	02/05/02 (2/7/02)	0.92	1.0
TXFP-1 F-1	02/05/02 (2/7/02)	1.1	1.0
TXFP-1 F-2	02/05/02 (2/7/02)	0.71	1.0
TXFP-1 F-3	02/05/02 (2/7/02)	0.69	1.0
TXFP-1 F-4	02/05/02 (2/7/02)	ND<0.50	1.0
TXFP-1 F-5	02/05/02 (2/7/02)	ND<0.50	1.0
SEDIMENT SUMP			SEDIMENT
PCB-6 ⁽²⁾	6/11/98 (6/23/98)	4	10.0

Notes for Table 3.1:

(1) = Result reported as micrograms per 100 square centimeters ($\mu\text{g}/100 \text{ sq. cm}$), dry weight.

(2) = Result reported by GEI Consultants, Inc.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 3.2 (page 1 of 2)

Capacitor Release Area—porous surfaces (page 1 of 2)

AOC #:	6
Cleanup Area Description:	Capacitor release area: porous asphalt berm and concrete pads
Location Reference:	Figures 6.1, 6.2 and 6.3
Sample Matrix:	Asphalt / concrete
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix E (also Appendices D, F, and H)

Characterization Samples

Sample ID	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
Capacitor Bank No. 1:			Bank 1:
ASPHALT BERM			ASPHALT
A-1 Cap 1	1/30/02 (2/4/02)	ND<0.50	1.0
A-2 Cap 1	1/30/02 (2/4/02)	0.73	1.0
A-3 Cap 1	1/30/02 (2/4/02)	0.54	1.0
A-4 Cap 1	1/30/02 (2/4/02)	1.7	1.0
A-5 Cap 1	1/30/02 (2/4/02)	17	1.0
A-6 Cap 1	1/30/02 (2/4/02)	55	1.0
A-7 Cap 1	1/30/02 (2/4/02)	4.1	1.0
D-1 Cap 1	1/30/02 (2/4/02)	1.8	1.0
D-2 Cap 1	1/30/02 (2/4/02)	0.52	1.0
D-3 Cap 1	1/30/02 (2/4/02)	4.3	1.0
D-4 Cap 1	1/30/02 (2/4/02)	4.9	1.0
D-5 Cap 1	1/30/02 (2/4/02)	8.2	1.0
D-6 Cap 1	1/30/02 (2/4/02)	7.7	1.0
D-7 Cap 1	1/30/02 (2/4/02)	10	1.0
D-8 Cap 1	1/30/02 (2/4/02)	4.1	1.0
CONCRETE PAD			CONCRETE
B-1 Cap 1	1/30/02 (2/4/02)	ND<0.50	1.0
B-2 Cap 1	1/30/02 (2/4/02)	ND<0.50	1.0
B-3 Cap 1	1/30/02 (2/4/02)	ND<0.50	1.0
B-4 Cap 1	1/30/02 (2/4/02)	1.2	1.0
B-5 Cap 1	1/30/02 (2/4/02)	0.92	1.0
B-6 Cap 1	1/30/02 (2/4/02)	240	1.0
B-7 Cap 1	1/30/02 (2/4/02)	40	1.0
B-8 Cap 1	1/30/02 (2/4/02)	3.5	1.0
C-1 Cap 1	1/30/02 (2/4/02)	ND<0.50	1.0
C-2 Cap 1	1/30/02 (2/4/02)	ND<0.50	1.0
C-3 Cap 1	1/30/02 (2/4/02)	ND<0.50	1.0
C-4 Cap 1	1/30/02 (2/4/02)	ND<0.50	1.0
C-5 Cap 1	1/30/02 (2/4/02)	12.2	1.0
C-6 Cap 1	1/30/02 (2/4/02)	94	1.0
C-7 Cap 1	1/30/02 (2/4/02)	25	1.0
C-8 Cap 1	1/30/02 (2/4/02)	1.8	1.0
CS-1 ⁽¹⁾	6/11/98 (6/23/98)	3	1.0
CS-2 ⁽¹⁾	6/11/98 (6/23/98)	10	1.0

Table 3.2 (page 2 of 2)

Capacitor Release Area—porous surfaces (page 2 of 2)

AOC #:	6
Cleanup Area Description:	Capacitor release area: porous asphalt berm and concrete pads
Location Reference:	Figures 6.1, 6.2 and 6.3
Sample Matrix:	Asphalt / concrete
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix E (also Appendices D, F, and H)

Characterization Samples

Sample ID	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
Capacitor Bank No. 2:			Bank 2:
CONCRETE PAD			CONCRETE
Cap 2-A	1/30/02 (2/4/02)	ND<0.50	1.0
Cap 2-B	1/30/02 (2/4/02)	ND<0.50	1.0
Cap 2-C	1/30/02 (2/4/02)	ND<0.50	1.0
Cap 2-D	1/30/02 (2/4/02)	ND<0.50	1.0
CS-3 ⁽¹⁾	6/11/98 (6/23/98)	ND<0.50	1.0
Capacitor Bank No. 3:			Bank 3:
CONCRETE PAD			CONCRETE
Cap 3-A	1/30/02 (2/4/02)	ND<0.50	1.0
Cap 3-B	1/30/02 (2/4/02)	ND<0.50	1.0
Cap 3-C	1/30/02 (2/4/02)	ND<0.50	1.0
Cap 3-D	1/30/02 (2/4/02)	ND<0.50	1.0
CS-4 ⁽¹⁾	6/11/98 (6/23/98)	ND<0.50	1.0

Notes for Table 3.2:

(1) = Result reported by GEI Consultants, Inc.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 3.3 (page 1 of 1)

Capacitor Release Area—Capacitor Bank No.1 (page 1 of 1)

AOC #:	5
Cleanup Area Description:	Capacitor release area, Capacitor Bank No. 1: surface soil
Location Reference:	Figures 6.1, 6.4a and 6.4b
Sample Matrix:	Soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix E (also Appendices D, F, and H)

Pre- and Post-Excavation Characterization Samples

Verification Samples ⁽¹⁾

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
AOC-6 CS1	0.3–0.6	1/30/02 (2/4/02)	10	AOC-6 CS14	1.3–1.6	5/8/02 (5/10/02)	4.4	10.0
SS-E	0.5–1.0	5/2/01 (5/4/01)	ND<0.50					10.0
SS-02 ⁽²⁾	0.0–0.3	3/30/00 (4/4/00)	23					10.0
AOC-6 CS2	2.0–2.5	1/30/02 (2/4/02)	1.3	AOC-6 CS13a	1.3–1.6	5/8/02 (5/10/02)	ND<0.50	10.0
AOC-6 CS3	0.3–0.6	1/30/02 (2/4/02)	5.5	AOC-6 CS13	1.3–1.6	5/8/02 (5/10/02)	4.8	10.0
HA-2 ⁽²⁾	0.7–1.0	3/30/00 (4/4/00)	ND<1.0					10.0
PCB-17 ⁽²⁾	0.5	6/11/98 (6/23/98)	2					10.0
AOC-6 CS4	0.0–0.3	1/30/02 (2/4/02)	ND<0.50	AOC-6 CS8	0.0–0.3	5/8/02 (5/10/02)	2.0	10.0
SS-G	0.5–1.0	5/2/01 (5/4/01)	ND<0.50					10.0
SS-03 ⁽²⁾	0.0–0.3	3/30/00 (4/4/00)	ND<1.0					10.0
SS-F	0.3–1.0	5/2/01 (5/4/01)	ND<0.50	AOC-6 CS16	2.3–2.6	5/8/02 (5/10/02)	1.1	10.0
SS-01 ⁽²⁾	0.0–0.3	3/30/00 (4/4/00)	ND<1.0					10.0
AOC-6 CS5	0–2	1/30/02 (2/4/02)	ND<0.50	AOC-6 CS10	0.0–0.3	5/8/02 (5/10/02)	ND<0.50	10.0
SS-H	0.2–0.8	5/2/01 (5/4/01)	0.63					10.0
AOC-6 CS6	0–2	1/30/02 (2/4/02)	ND<0.50					10.0
				AOC-6 CS7	0.0–0.3	5/8/02 (5/10/02)	ND<0.50	10.0
				AOC-6 CS9	0.0–0.3	5/8/02 (5/10/02)	ND<0.50	10.0
				AOC-6 CS11	1.0–1.3	5/8/02 (5/10/02)	0.68	10.0
				AOC-6 CS12	1.3–1.6	5/8/02 (5/10/02)	1.4	10.0
				AOC-6 CS15	2.0–2.3	5/8/02 (5/10/02)	1.6	10.0
				AOC-6 CS17	2.3–2.6	5/8/02 (5/10/02)	2.2	10.0

Notes for Table 3.3:

(1) = Sample locations selected using a 10-meter grid.

(2) = Result reported by GEI Consultants, Inc.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 3.4 (page 1 of 1)

Capacitor Release and PCB Remediation Areas—hand auger (page 1 of 1)

AOC #:	5 and 6
Cleanup Area Description:	Capacitor release and PCB remediation areas: surface soil and sump sediment
Location Reference:	Figure 6.1
Sample Matrix:	Soil / sump sediment
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix E (also Appendices D, F, and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SURFACE SOIL				SOIL
SS-AA	0.0–0.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-AA ⁽¹⁾	0.3–1.3	4/3/02 (4/8/02)	0.83	10.0
SS-BB	0.0–0.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-BB	0.3–1.3	4/3/02 (4/8/02)	ND<0.50	10.0
SS-PP	0.0–0.3	4/4/02 (4/8/02)	ND<0.50	10.0
SS-PP	1.0–1.3	4/4/02 (4/8/02)	ND<0.50	10.0
SS-I	0.2–0.8	5/2/01 (5/4/01)	ND<0.50	10.0
SS-J	0.2–0.8	5/2/01 (5/4/01)	ND<0.50	10.0
SS-K	0.2–0.8	5/2/01 (5/4/01)	ND<0.50	10.0
PCB-11 ⁽²⁾	1	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-12 ⁽²⁾	1	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-13 ⁽²⁾	0.5	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-14 ⁽²⁾	1	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-15 ⁽²⁾	0.5	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-16 ⁽²⁾	1	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-18 ⁽²⁾	1	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-18A ⁽²⁾	2	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-19 ⁽²⁾	0.5	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-19A ⁽²⁾	2.5	6/11/98 (6/23/98)	ND<1.0	10.0
SUMP SEDIMENT				SUMP
PCB-5 ⁽²⁾	0.5	6/11/98 (6/23/98)	ND<1.0	10.0

Notes for Table 3.4:

(1) = Sample also tested for leachable PCBs using the Synthetic Precipitation Leachate Procedure (SPLP). SPLP PCBs were not detected.

(2) = Result reported by GEI Consultants, Inc.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 3.5 (page 1 of 2)

Capacitor Release and PCB Remediation Areas—test boring (page 1 of 2)

AOC #:	5 and 6
Cleanup Area Description:	Capacitor release and PCB remediation areas: test boring soil
Location Reference:	Figure 6.1
Sample Matrix:	Soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix E (also Appendices D, F, and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
TB-S	0-1	5/15/01 (5/18/01)	ND<0.50	10.0
TB-S	2.0-3.3	5/15/01 (5/18/01)	ND<0.50	10.0
TB-S	5-7	5/15/01 (5/18/01)	ND<0.50	10.0
TB-S	10-12	5/15/01 (5/18/01)	ND<0.50	10.0
TB-T	0-2	5/15/01 (5/18/01)	ND<0.50	10.0
TB-T	2-4	5/15/01 (5/18/01)	ND<0.50	10.0
TB-T	5-7	5/15/01 (5/18/01)	ND<0.50	10.0
TB-T	10-12	5/15/01 (5/18/01)	ND<0.50	10.0
TB-BBB ⁽¹⁾	1-3	2/13/02 (2/15/02)	15	10.0
TB-BBB ⁽²⁾	5-7	2/13/02 (2/15/02)	15	10.0
TB-BBB	10-13	2/13/02 (2/15/02)	ND<0.50	10.0
TB-XXX/MW-L ⁽³⁾	0.0-0.3	4/2/02 (4/5/02)	1.5	10.0
TB-XXX/MW-L ⁽³⁾	0.3-1.3	4/2/02 (4/5/02)	1.2	10.0
TB-XXX/MW-L	2.3-4.3	4/2/02 (4/5/02)	ND<0.50	10.0
TB-XXX/MW-L	4.3-6.3	4/2/02 (4/5/02)	ND<0.50	10.0
TB-XXX/MW-L	10-12	4/2/02 (4/5/02)	ND<0.50	10.0
TB-XXX/MW-L	15-16	4/2/02 (4/5/02)	ND<0.50	10.0
TB-XXX/MW-L	16-17	4/2/02 (4/5/02)	ND<0.50	10.0
TB-YYY	0.0-0.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-YYY ⁽³⁾	0.3-1.3	4/3/02 (4/8/02)	9.4	10.0
TB-YYY ⁽⁴⁾	2.3-3.3	4/3/02 (4/8/02)	3.1	10.0
TB-YYY	3.3-4.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-YYY	5.3-6.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-YYY	11-12	4/3/02 (4/8/02)	ND<0.50	10.0
TB-YYY	15-17	4/3/02 (4/8/02)	ND<0.50	10.0
TB-AAAA	0.0-0.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-AAAA	0.3-1.3	4/3/02 (4/8/02)	ND<0.50	10.0
TB-AAAA	2.5-3.0	4/3/02 (4/8/02)	ND<0.50	10.0
TB-AAAA	4-6	4/3/02 (4/8/02)	ND<0.50	10.0
TB-AAAA	15-17	4/3/02 (4/8/02)	ND<0.50	10.0
TB-BBBB	0.0-0.3	4/3/02 (4/6/02)	ND<0.50	10.0
TB-BBBB	0.3-1.3	4/3/02 (4/6/02)	ND<0.50	10.0
TB-BBBB	2.3-4.3	4/3/02 (4/6/02)	ND<0.50	10.0
TB-BBBB	4.3-6.3	4/3/02 (4/6/02)	ND<0.50	10.0
TB-BBBB	10-12	4/3/02 (4/6/02)	ND<0.50	10.0
TB-BBBB	15-17	4/3/02 (4/6/02)	ND<0.50	10.0
TB-IIII	0.0-0.3	4/4/02 (4/8/02)	ND<0.50	10.0
TB-IIII ⁽⁴⁾	0.3-1.3	4/4/02 (4/8/02)	1.9	10.0
TB-IIII	4.3-6.3	4/4/02 (4/8/02)	ND<0.50	10.0

**Table 3.5 (page 2 of 2)
 Capacitor Release and PCB Remediation Areas—test boring (page 2 of 2)**

AOC #:	5 and 6
Cleanup Area Description:	Capacitor release and PCB remediation areas: test boring soil
Location Reference:	Figure 6.1
Sample Matrix:	Soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix E (also Appendices D, F, and H)

Notes for Table 3.5:

(1) = Not enough residual sample to test for leachable PCBs.

(2) = Samples collected at 3–5 feet and 5–7 feet below grade were also tested for leachable PCBs using the Synthetic Precipitation Leachate Procedure (SPLP). Leachable PCBs were detected at concentrations of 0.74 and 0.72 micrograms per liter (µg/L), respectively.

(3) = Not enough residual sample to analyze for leachable PCBs. Additional sample was collected for leachable (SPLP) PCB testing on May 8, 2002. SPLP PCBs were not detected.

(4) = Sample also tested for leachable PCBs using SPLP. SPLP PCBs were not detected.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 4

**SUMMARY OF SITE CHARACTERIZATION RESULTS FOR
PCB AREA 4: SOUTHWEST CORNER**

Table 4.1 (page 1 of 1)

Transformer and Capacitor Areas—concrete core and hand auger (page 1 of 1)

AOC #:	9
Cleanup Area Description:	Transformer and capacitor areas: porous concrete pad and surface soil
Location Reference:	Figure 7
Sample Matrix:	Concrete / soil
Analysis:	US EPA 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix F (also Appendix H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
Former West Transformers:				West Trans.:
CONCRETE PAD				CONCRETE
TXFP-2 1	0	02/06/02 (2/11/02)	8.1	1.0
TXFP-2 2	0	02/06/02 (2/11/02)	ND<0.50	1.0
SURFACE SOIL				SOIL
PCB-3 ⁽¹⁾	0.0–0.3	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-4 ⁽¹⁾	0.0–0.3	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-7 ⁽¹⁾	0.5	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-8 ⁽¹⁾	0.8	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-9 ⁽¹⁾	0.8	6/11/98 (6/23/98)	1	10.0
PCB-10 ⁽¹⁾	0.5	6/11/98 (6/23/98)	ND<1.0	10.0
PCB-33 ⁽¹⁾	0.0–0.3	7/7/98 (7/10/98)	ND<1.0	10.0
PCB-34 ⁽¹⁾	0.0–0.3	7/7/98 (7/10/98)	ND<1.0	10.0
PCB-35 ⁽¹⁾	0.0–0.3	7/7/98 (7/10/98)	ND<1.0	10.0
Southwest Transformer:				SW Trans.:
SURFACE SOIL				SOIL
HA-1 ⁽¹⁾	1	3/30/00 (4/4/00)	29	10.0
PCB-1 ⁽¹⁾	1	6/11/98 (6/23/98)	440	10.0
PCB-31 ⁽¹⁾	0.0–0.3	7/7/98 (7/10/98)	94	10.0
PCB-32 ⁽¹⁾	0.0–0.3	7/7/98 (7/10/98)	53	10.0
Former Capacitor Bank No. 4:				Cap. Bank 4:
CONCRETE PAD				CONCRETE
CS-6 ⁽¹⁾	0	6/19/98 (NA)	ND<1.0	1.0
SURFACE SOIL				SOIL
PCB-2 ⁽¹⁾	1.5	6/11/98 (6/23/98)	2,300	10.0
PCB-20 ⁽¹⁾	0.7	6/18/98 (NA)	ND<1.0	10.0
PCB-21 ⁽¹⁾	0.5	6/18/98 (NA)	ND<1.0	10.0

Notes for Table 4.1:

(1) = Result reported by GEI Consultants, Inc.

NA = Not available.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 4.2 (page 1 of 1)

Transformer and Capacitor Areas—test boring (page 1 of 1)

AOC #:	9
Cleanup Area Description:	Transformer and capacitor areas: test boring soil
Location Reference:	Figure 7
Sample Matrix:	Soil
Analysis:	Milligrams per kilogram (mg/kg), dry weight
Units:	US EPA 8082
Laboratory Results In:	Appendix F (also Appendix H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
TB-CCC	0-2	2/13/02 (2/15/02)	ND<0.50	10.0
TB-CCC	2.0-2.5	2/13/02 (2/26/02)	ND<0.50	10.0
TB-CCC	5-7	2/13/02 (2/26/02)	ND<0.50	10.0
TB-CCC	10-13	2/13/02 (2/26/02)	ND<0.50	10.0
TB-DDD	0-2	2/13/02 (2/15/02)	ND<0.50	10.0
TB-FFF	0-2	2/13/02 (2/26/02)	ND<0.50	10.0
TB-FFF	2-4	2/13/02 (2/26/02)	ND<0.50	10.0
TB-FFF	5-7	2/13/02 (2/26/02)	ND<0.50	10.0
TB-FFF	10-12	2/13/02 (2/15/02)	ND<0.50	10.0
TB-214 ⁽¹⁾	3.0-3.3	3/30/00 (4/4/00)	2	10.0
TB-215 ⁽¹⁾	2.0-2.2	3/30/00 (4/4/00)	4	10.0
TB-115 ⁽¹⁾	5-7	7/1/98 (7/9/98)	ND<1.0	10.0
TB-116 ⁽¹⁾	5-7	7/1/98 (7/9/98)	ND<1.0	10.0
MW-14D ⁽¹⁾	26-28	6/11/98 (6/23/98)	ND<1.0	10.0
MW-14S ⁽¹⁾	1-3	6/1/98 (NA)	ND<1.0	10.0
MW-13 ⁽¹⁾	13-15	6/1/98 (6/10/98)	ND<1.0	10.0

Notes for Table 4.2:

(1) = Result reported by GEI Consultants, Inc.
 NA = Not available.

Table 5

**SUMMARY OF SITE CHARACTERIZATION RESULTS FOR
PCB AREA 5: SOUTHEAST CORNER**

Table 5.1 (page 1 of 1)

**Former Oil/Waste Oil Storage and Waste Water Treatment Facility Areas—sediment and hand
auger (page 1 of 1)**

AOC #:	7, 8, and 13
Cleanup Area Description:	Former oil/waste oil storage and waste water treatment facility areas: surface soil and catch basin sediment
Location Reference:	Figure 8
Sample Matrix:	Soil / catch basin sediment
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix H

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SURFACE SOIL				SOIL
SS-04 ⁽¹⁾	0.0–0.3	3/31/00 (4/5/00)	3	10.0
SS-05 ⁽¹⁾	0.0–0.3	3/31/00 (4/5/00)	2	10.0
SS-06 ⁽¹⁾	0.0–0.3	3/31/00 (4/5/00)	1	10.0
SS-07 ⁽¹⁾	0.0–0.3	3/31/00 (4/5/00)	ND<1.0	10.0
SS-08 ⁽¹⁾	0.0–0.3	3/31/00 (4/5/00)	1	10.0
AST-1 ⁽¹⁾	1–2	6/11/98 (6/23/98)	2	10.0
SS-1D ⁽¹⁾	0.5	6/19/98 (6/30/98)	14	10.0
SS-1S ⁽¹⁾	0.0	6/19/98 (6/30/98)	1	10.0
CATCH BASIN SEDIMENT				SEDIMENT
SED-2 ⁽¹⁾	0.5	6/12/98 (6/23/98)	1	1.0

Notes for Table 5.1:

(1) = Result reported by GEI Consultants, Inc.

NA = Not available.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 5.2 (page 1 of 1)

Former Oil/Waste Oil Storage and Waste Water Treatment Facility Areas—test boring (pg. 1 of 1)

AOC #:	7, 8, and 13
Cleanup Area Description:	Former oil/waste oil storage and waste water treatment facility areas: test boring soil
Location Reference:	Figure 8
Sample Matrix:	Soil
Analysis:	US EPA 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix H

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
MW-16 ⁽¹⁾	6-8	5/29/98 (6/9/98)	ND<1.0	10.0
MW-17D ⁽¹⁾	26-28	6/10/98 (6/18/98)	ND<1.0	10.0
MW-17S ⁽¹⁾	4-6	5/29/98 (6/6/98)	ND<1.0	10.0
MW-18 ⁽¹⁾	14-16	5/29/98 (6/6/98)	ND<1.0	10.0
MW-21 ⁽¹⁾	15-17	5/29/98 (6/6/98)	ND<1.0	10.0
TB-21 ⁽¹⁾	0-2	5/29/98 (6/6/98)	ND<1.0	10.0
TB-219 ⁽¹⁾	3.0-3.3	3/31/00 (4/5/00)	ND<1.0	10.0
TB-219 ⁽¹⁾	7.0-7.3	3/31/00 (4/5/00)	ND<1.0	10.0
TB-220 ⁽¹⁾	1.5-1.8	3/31/00 (4/5/00)	ND<1.0	10.0
TB-220 ⁽¹⁾	3.5-3.8	3/31/00 (4/5/00)	ND<1.0	10.0
TB-220 ⁽¹⁾	5.0-5.3	3/31/00 (4/5/00)	ND<1.0	10.0
TB-221 ⁽¹⁾	5.0-5.3	3/31/00 (4/5/00)	ND<1.0	10.0
TB-222 ⁽¹⁾	1.7-2.0	3/31/00 (4/5/00)	ND<1.0	10.0
TB-222 ⁽¹⁾	5.9-6.2	3/31/00 (4/5/00)	ND<1.0	10.0
TB-223 ⁽¹⁾	3.5-3.8	3/31/00 (4/5/00)	ND<1.0	10.0
TB-224 ⁽¹⁾	1.0-1.3	3/31/00 (4/5/00)	5	10.0
TB-224 ⁽¹⁾	2-3	3/31/00 (4/5/00)	7	10.0
TB-225 ⁽¹⁾	3.7-4.0	3/31/00 (4/5/00)	4	10.0
TB-225 ⁽¹⁾	1.7-2.0	3/31/00 (4/5/00)	14	10.0
TB-24 ⁽¹⁾	6-8	5/29/98 (6/6/98)	ND<1.0	10.0

Notes for Table 5.2:

(1) = Result reported by GEI Consultants, Inc.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table 6

**SUMMARY OF SITE CHARACTERIZATION RESULTS FOR
NON-PCB AREAS: BALANCE OF SITE**

Table 6.1 (page 1 of 1)

Site-Wide—sediment and hand auger

AOC #:	2, 11, and 12
Cleanup Area Description:	Site-Wide: asphalt, surface soil and catch basin sediment
Location Reference:	Figure 9
Sample Matrix:	Asphalt / soil / catch basin sediment
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix G (also Appendices D, E, F, and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
ASPHALT				ASPHALT
SS-M1	0.0–0.2	5/2/01 (5/4/01)	ND<0.50	10.0
AOC-2 CS6	0.0–0.25	3/12/02 (3/14/02)	ND<0.50	1.0
SURFACE SOIL				SOIL
SS-L	0.2–0.8	5/2/01 (5/4/01)	ND<0.50	10.0
SS-M2	0.2–0.8	5/2/01 (5/4/01)	ND<0.50	10.0
AOC-2 CS2	0–2	3/12/02 (3/14/02)	ND<0.50	1.0
AOC-2 CS2	2–4	3/12/02 (3/14/02)	ND<0.50	1.0
AOC-2 CS2	5–7	3/12/02 (3/14/02)	ND<0.50	1.0
AOC-2 CS6	0.25–2.0	3/12/02 (3/14/02)	ND<0.50	1.0
AOC-2 CS6	2–4	3/12/02 (3/14/02)	ND<0.50	1.0
AOC-2 CS6	5–7	3/12/02 (3/14/02)	ND<0.50	1.0
CATCH BASIN SEDIMENT				SEDIMENT
CB-4	NA	7/25/01 (7/30/01)	ND<0.50	10.0
SED-1 ⁽¹⁾	1	6/12/98 (6/23/98)	ND<1.0	10.0

Notes for Table 6.1:

(1) = Result reported by GEI Consultants, Inc.

NA = Not applicable.

Table 6.2 (page 1 of 4)

Site-Wide—test boring (page 1 of 4)

AOC #:	1, 2, 11, and 12
Cleanup Area Description:	Site-Wide: asphalt and test boring soil
Location Reference:	Figure 9
Sample Matrix:	Asphalt / soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix G (also Appendices D, E, F, and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
ASPHALT ⁽¹⁾				ASPHALT
TB-HHH	0.0–0.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-III	0.0–0.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-JJJ	0.0–0.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-KKK	0.0–0.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-LLL	0.0–0.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-MMM	0.0–0.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-NNN	0.0–0.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-OOO	0.0–0.3	4/1/02(4/2/02)	ND<0.50	10.0
TB-PPP	0.0–0.3	4/1/02 (4/3/02)	ND<0.50	10.0
TB-QQQ	0.0–0.3	4/1/02 (4/3/02)	ND<0.50	10.0
TB-RRR	0.0–0.3	4/2/02 (4/5/02)	ND<0.50	1.0
TB-SSS	0.0–0.3	4/2/02 (4/5/02)	ND<0.50	1.0
TB-TTT	0.0–0.3	4/2/02 (4/5/02)	ND<0.50	10.0
TB-UUU	0.0–0.3	4/2/02 (4/5/02)	ND<0.50	1.0
TB-VVV	0.0–0.3	4/2/02 (4/5/02)	ND<0.50	10.0
TB-WWW	0.0–0.3	4/2/02 (4/5/02)	ND<0.50	10.0
TB-FFFF	0.0–0.3	4/4/02 (4/8/02)	ND<0.50	1.0
TB-AAAAA	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-BBBBB	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-CCCC	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-FFFFF	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-GGGGG	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-HHHHH	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-IIIII	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-JJJJJ	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-KKKKK	0.0–0.3	4/5/02 (4/10/02)	ND<0.50	1.0
SOIL				SOIL
TB-L	2–4	5/14/01 (5/18/01)	ND<0.50	1.0
TB-J	2–4	5/14/01 (5/18/01)	ND<0.50	1.0
TB-JJ	2–4	4/1/02 (4/3/02)	ND<0.50	10.0
TB-KK	2–4	4/1/02 (4/3/02)	ND<0.50	10.0
TB-OO	0–2	4/1/02 (4/3/02)	ND<0.50	10.0
TB-RR	2–4	4/1/02 (4/3/02)	ND<0.50	1.0
TB-VV	5.0–5.5	4/1/02 (4/3/02)	ND<0.50	10.0
TB-HHH	1.3–2.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-HHH	2.3–4.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-HHH	4.3–6.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-III	1–3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-III	3.5–4.5	4/1/02 (4/2/02)	ND<0.50	10.0
TB-III	5–7	4/1/02 (4/2/02)	ND<0.50	10.0
TB-III	10–12	4/1/02 (4/2/02)	ND<0.50	10.0
TB-JJJ	1–3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-JJJ	5–7	4/1/02 (4/2/02)	ND<0.50	10.0

Table 6.2 (page 2 of 4)

Site-Wide—test boring (page 2 of 4)

AOC #:	1, 2, 11, and 12
Cleanup Area Description:	Site-Wide: asphalt and test boring soil
Location Reference:	Figure 9
Sample Matrix:	Asphalt / soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix G (also Appendices D, E, F, and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SOIL				
TB-KKK	1-3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-KKK	3-5	4/1/02 (4/2/02)	ND<0.50	10.0
TB-KKK	5-7	4/1/02 (4/2/02)	ND<0.50	10.0
TB-LLL	1-3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-LLL	5-7	4/1/02 (4/2/02)	ND<0.50	10.0
TB-MMM	0.3-1.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-MMM	2-4	4/1/02 (4/2/02)	ND<0.50	10.0
TB-NNN	0.3-2.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-NNN	2.3-4.3	4/1/02 (4/2/02)	ND<0.50	10.0
TB-NNN	4.3-6.3	4/1/02 (4/3/02)	ND<0.50	10.0
TB-OOO	0.3-1.3	4/1/02 (4/3/02)	ND<0.50	10.0
TB-OOO	3.0-3.5	4/1/02 (4/3/02)	ND<0.50	10.0
TB-OOO	4-6	4/1/02 (4/3/02)	ND<0.50	10.0
TB-PPP	0.3-2.3	4/1/02 (4/3/02)	ND<0.50	10.0
TB-PPP	2.5-3.0	4/1/02 (4/3/02)	ND<0.50	10.0
TB-PPP	3.5-4.0	4/1/02 (4/3/02)	ND<0.50	10.0
TB-PPP	4.3-6.3	4/1/02 (4/3/02)	ND<0.50	10.0
TB-QQQ	0.3-2.3	4/1/02 (4/3/02)	ND<0.50	10.0
TB-QQQ	2.3-4.3	4/1/02 (4/3/02)	ND<0.50	10.0
TB-QQQ	4.3-5.0	4/1/02 (4/3/02)	ND<0.50	10.0
TB-RRR	0.3-0.6	4/2/02 (4/5/02)	ND<0.50	1.0
TB-RRR	0.6-2.6	4/2/02 (4/5/02)	ND<0.50	1.0
TB-RRR	4.6-6.6	4/2/02 (4/5/02)	ND<0.50	1.0
TB-SSS	0.3-0.6	4/2/02 (4/5/02)	ND<0.50	1.0
TB-SSS	2.6-4.6	4/2/02 (4/5/02)	ND<0.50	1.0
TB-SSS	6.6-8.6	4/2/02 (4/5/02)	ND<0.50	1.0
TB-TTT	0.3-0.6	4/2/02 (4/5/02)	ND<0.50	10.0
TB-TTT	0.6-2.6	4/2/02 (4/5/02)	ND<0.50	10.0
TB-TTT	4.6-6.6	4/2/02 (4/5/02)	ND<0.50	10.0
TB-UUU	0.3-0.6	4/2/02 (4/5/02)	ND<0.50	1.0
TB-UUU	4.6-6.6	4/2/02 (4/5/02)	ND<0.50	1.0
TB-UUU	15-17	4/2/02 (4/5/02)	ND<0.50	1.0
TB-VVV	0.3-0.6	4/2/02 (4/5/02)	ND<0.50	10.0
TB-VVV	2.0-2.6	4/2/02 (4/5/02)	ND<0.50	10.0
TB-VVV	2.6-4.6	4/2/02 (4/5/02)	ND<0.50	10.0
TB-VVV	4.6-6.6	4/2/02 (4/5/02)	ND<0.50	10.0
TB-WWW	0.3-2.0	4/2/02 (4/5/02)	ND<0.50	10.0
TB-WWW	2-4	4/2/02 (4/5/02)	ND<0.50	10.0
TB-WWW	4-6	4/2/02 (4/5/02)	ND<0.50	10.0
TB-WWW	20-22	4/2/02 (4/5/02)	ND<0.50	10.0
TB-FFFF	0.5-0.8	4/4/02 (4/8/02)	ND<0.50	1.0
TB-FFFF	2.5-3.5	4/4/02 (4/8/02)	ND<0.50	1.0
TB-FFFF	3.5-4.5	4/4/02 (4/8/02)	ND<0.50	1.0

Table 6.2 (page 3 of 4)

Site-Wide—test boring (page 3 of 4)

AOC #:	1, 2, 11, and 12
Cleanup Area Description:	Site-Wide: asphalt and test boring soil
Location Reference:	Figure 9
Sample Matrix:	Asphalt / soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix G (also Appendices D, E, F, and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SOIL				
TB-AAAAA	0.5–2.5	4/5/02 (4/10/02)	ND<0.50	1.0
TB-BBBBBB	0.5–2.5	4/5/02 (4/10/02)	ND<0.50	1.0
TB-BBBBBB	2.5–4.5	4/5/02 (4/10/02)	ND<0.50	1.0
TB-BBBBBB	4.5–5.5	4/5/02 (4/10/02)	ND<0.50	1.0
TB-CCCCC	2–4	4/5/02 (4/10/02)	ND<0.50	1.0
TB-CCCCC	4–5	4/5/02 (4/10/02)	ND<0.50	1.0
TB-FFFFF	0.5–0.8	4/5/02 (4/10/02)	ND<0.50	1.0
TB-GGGGG	0.5–1.2	4/5/02 (4/10/02)	ND<0.50	1.0
TB-HHHHH	0.5–2.5	4/5/02 (4/10/02)	ND<0.50	1.0
TB-HHHHH	2.5–4.5	4/5/02 (4/10/02)	ND<0.50	1.0
TB-JJJJJ	0.3–2.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-JJJJJ	2.3–4.3	4/5/02 (4/10/02)	ND<0.50	1.0
TB-KKKKK	1–2	4/5/02 (4/10/02)	ND<0.50	1.0
TB-KKKKK	4–5	4/5/02 (4/10/02)	ND<0.50	1.0
TB-AAA	2–4	2/13/02 (2/26/02)	ND<0.50	10.0
TB-AAA	5–7	2/13/02 (2/26/02)	ND<0.50	10.0
TB-AAA	10–12	2/13/02 (2/26/02)	ND<0.50	10.0
TB-AAA	0–2	2/13/02 (2/26/02)	ND<0.50	10.0
TB-II	5–7	2/8/02 (2/14/02)	ND<0.50	10.0
TB-JJ	2–4	2/8/02 (2/14/02)	ND<0.50	10.0
TB-KK	0–2	2/8/02 (2/14/02)	ND<0.50	10.0
TB-MM	2–4	2/8/02 (2/14/02)	ND<0.50	10.0
TB-QQ	0–2	2/8/02 (2/14/02)	ND<0.50	1.0
TB-QQ	10–12	2/8/02 (2/14/02)	ND<0.50	1.0
TB-UU	2–4	2/8/02 (2/14/02)	ND<0.50	10.0
TB-VV	2–4	2/8/02 (2/14/02)	ND<0.50	10.0
TB-VV	4–6	2/8/02 (2/21/02)	ND<0.50	10.0
TB-U/MW-G	1–3	5/15/01 (5/18/01)	ND<0.50	10.0
TB-W/MW-H	2–4	5/15/01 (5/18/01)	ND<0.50	10.0
TB-Z/MW-I	2–4	5/15/01 (5/18/01)	ND<0.50	10.0

Table 6.2 (page 4 of 4)

Site-Wide—test boring (page 4 of 4)

AOC #:	1, 2, 11, and 12
Cleanup Area Description:	Site-Wide: asphalt and test boring soil
Location Reference:	Figure 9
Sample Matrix:	Asphalt / soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix G (also Appendices D, E, F, and H)

Characterization Samples

Sample ID	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	Cleanup Criterion
SOIL				SOIL
TB-200 ⁽²⁾	5-7	7/2/98 (7/9/98)	ND<1.0	10.0
MW-4D ⁽²⁾	36-40	6/10/98 (6/18/98)	ND<1.0	1.0
MW-10 ⁽²⁾	9-11	6/9/98 (6/19/98)	ND<1.0	10.0
MW-3 ⁽²⁾	15-17	6/4/98 (6/12/98)	ND<1.0	1.0
TB-6 ⁽²⁾	1-7	6/4/98 (6/12/98)	ND<1.0	1.0
TB-7 ⁽²⁾	5	6/4/98 (6/12/98)	ND<1.0	1.0
TB-7A ⁽²⁾	7-9	6/4/98 (6/12/98)	ND<1.0	1.0
MW-2 ⁽²⁾	13-17	6/2/98 (6/10/98)	ND<1.0	1.0
TB-1 ⁽²⁾	7-8	6/2/98 (6/10/98)	ND<1.0	1.0
MW-12 ⁽²⁾	2-4	6/1/98 (6/10/98)	ND<1.0	10.0
TB-25 ⁽²⁾	2-4	5/29/98 (6/6/98)	ND<1.0	10.0
TB-18 ⁽²⁾	12-14	5/28/98 (6/6/98)	ND<1.0	10.0
TB-18A ⁽²⁾	16-18	5/28/98 (6/6/98)	ND<1.0	10.0
MW-20 ⁽²⁾	11-13	5/27/98 (6/7/98)	ND<1.0	10.0
MW-5 ⁽²⁾	2-4	5/26/98 (6/7/98)	ND<1.0	10.0
MW-9A ⁽²⁾	0-2	5/26/98 (6/7/98)	ND<1.0	10.0

Notes for Table 6.2:

- (1) = Sample may include some base material (e.g., cobbles or gravel).
(2) = Result reported by GEI Consultants, Inc.

**Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 2 and 14, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Surface Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	SS-A (0-1)	SS-B (0-1)	SS-C (0-1)	SS-D1 (0-1)	SS-D2 (0-0.5)	SS-E (0.5-1)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<0.20	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<0.20	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	ND<0.20	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	0.87	ND<0.20	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	0.79	ND<0.20	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	1.7	ND<0.20	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	0.72	ND<0.20	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	0.64	ND<0.20	NT	NT
Chrysene	84	780	1	NT	NT	NT	0.87	ND<0.20	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<0.20	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	1.5	ND<0.20	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	ND<0.20	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	0.70	ND<0.20	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.20	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	0.88	ND<0.20	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	1.3	ND<0.20	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CT ETPH)	500	2,500	2,500	NT	NT	NT	99	ND<50	ND<50	NT
Total Metals										
Arsenic	10	10	NA	ND<2.0	ND<2.0	7.4	14	ND<2.0	51	930
Barium	4,700	140,000	NA	NT	NT	NT	30	25	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	ND<1.0	ND<1.0	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	11	8	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	64	31	NT	NT
Mercury	20	610	NA	NT	NT	NT	0.72	ND<0.20	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030

**Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 2 and 14, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Surface Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	SS-A	SS-B	SS-C	SS-D1	SS-D2	SS-E
Depth Below Grade (ft.)				(0-1)	(0-1)	(0-1)	(0-1)	(0-0.5)	(0.5-1)	(0.3-1)
Selenium	340	10,000	NA	NT	NT	NT	ND<1.0	ND<1.0	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	NT
SPLP Metals										
Arsenic	NA	NA	0.5	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium	NA	NA	10	NT	NT	NT	0.56	0.73	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	0.034	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1248	1	10	NA	NT	NT	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = parts per million (comparable to mg/kg).
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- NA = Not applicable.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure (SPLP). Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

**Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 2 and 14, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Surface Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	SS-G (0.5-1)	SS-H (0.2-0.8)	SS-I (0.2-0.8)	SS-J (0.2-0.8)	SS-K (0.2-0.8)	SS-L (0.2-0.8)
Depth Below Grade (ft.)										
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	NT	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	NT	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	NT	NT	0.37	NT	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	1.7	NT	0.94	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	1.5	NT	0.65	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	2.7	NT	1.3	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	0.99	NT	0.50	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	1.1	NT	0.52	NT	NT
Chrysene	84	780	1	NT	NT	1.7	NT	0.90	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	0.22	NT	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	3.3	NT	1.1	NT	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	NT	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	0.87	NT	0.40	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	0.41	NT	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	2.4	NT	0.80	NT	NT
Pyrene	1,000	2,500	40	NT	NT	2.7	NT	1.1	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CT ETPH)	500	2,500	2,500	140	NT	140	NT	220	NT	NT
Total Metals										
Arsenic	10	10	NA	85	110	100	86	69	30	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030

**Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 2 and 14, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Surface Soil Sample Concentrations (ppm)						
	Residential	Industrial/Commercial		GB Area	SS-G	SS-H	SS-I	SS-J	SS-K	SS-L
Depth Below Grade (ft.)				(0.5-1)	(0.2-0.8)	(0.2-0.8)	(0.2-0.8)	(0.2-0.8)	(0.2-0.8)	(0.0-0.2)
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	NT
SPLP Metals										
Arsenic	NA	NA	0.5	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1248	1	10	NA	ND<0.50	0.63	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = parts per million (comparable to mg/kg).
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- NA = Not applicable.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure (SPLP). Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

**Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 2 and 14, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Surface Soil Sample Concentrations (ppm)							
	Residential	Industrial/Commercial	GB Area	SS-M2 (0.2-0.8)	SS-U (0-2)	SS-V (0-1.5)	SS-W (0-2)	SS-W (2-3)	SS-X (0-0.6)	SS-Y (0-0.6)	SS-Z (0-0.6)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)											
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	0.93	0.21	ND<0.20
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	0.68	0.22	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	1.1	0.85	ND<0.20
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	0.49	0.31	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	0.45	0.21	ND<0.20
Chrysene	84	780	1	NT	NT	NT	NT	NT	1.1	1.2	ND<0.20
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	1.6	0.74	ND<0.20
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	0.41	0.28	ND<0.20
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	0.78	0.94	ND<0.20
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	1.8	0.42	ND<0.20
Connecticut Extractable Total Petroleum Hydrocarbons (CT ETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	270	240	700
Total Metals											
Arsenic	10	10	NA	ND<2.0	37	18	20	26	30	37	ND<2.0
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	40	28	38
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	1.3	2.1	1.6
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	13	28	19
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	170	29	100
Lead	500	1,000	NA	NT	NT	NT	NT	NT	130	52	810
Mercury	20	610	NA	NT	NT	NT	NT	NT	ND<0.20	0.48	1.2
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	24	21	11

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030

**Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 2 and 14, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Surface Soil Sample Concentrations (ppm)								
	Residential	Industrial/Commercial		GB Area	SS-M2 (0.2-0.8)	SS-U (0-2)	SS-V (0-1.5)	SS-W (0-2)	SS-W (2-3)	SS-X (0-0.6)	SS-Y (0-0.6)	SS-Z (0-0.6)
Depth Below Grade (ft.)												
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	2.2	6.4	ND<1.0	
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	88	16	200	
SPLP Metals												
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	NT	NT	NT	NT	NT	
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT	
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT	NT	NT	
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)												
PCB-1248	1	10	NA	ND<0.50	NT	NT	NT	NT	ND<0.50	ND<0.50	ND<0.50	

Notes:

- mg/kg = milligrams per kilogram.
- ppm = parts per million (comparable to mg/kg).
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- NA = Not applicable.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure (SPLP). Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)								
	Residential	Industrial/ Commercial		GB Area	TB-A (0-2)	TB-A (2-4)	TB-A (5-7)	TB-A (10-12)	TB-B (0-2)	TB-B (2-4)	TB-B (5-7)	TB-B (10-12)
Depth Below Grade (ft.)												
USEPA Method 8270 Polynuclear Aromatics												
Acenaphthene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	0.30	NT	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	0.35	NT	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	1.3	NT	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	0.90	NT	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	0.28	NT	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)												
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 4
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial	GB Area	TB-A (0-2)	TB-A (2-4)	TB-A (5-7)	TB-A (10-12)	TB-B (0-2)	TB-B (2-4)	TB-B (5-7)	TB-B (10-12)
Depth Below Grade (ft.)											
Total Metals											
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	2.6	6.1	240	300	5.8	34	110	9.3
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
SPLP Metals											
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	NT	ND<0.05	ND<0.05	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial		GB Area	TB-C (0-2)	TB-C (2-4)	TB-C (5-7)	TB-C (10-12)	TB-D (0-2)	TB-D (2-4)	TB-D (5-7)
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	ND<0.20	NT	NT	0.58	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	ND<0.20	NT	NT	0.94	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	ND<0.20	NT	NT	0.36	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	ND<0.20	NT	NT	0.28	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	ND<0.20	NT	NT	0.45	NT	NT	NT
Chrysene	84	780	1	NT	ND<0.20	NT	NT	0.78	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	ND<0.20	NT	NT	1.2	NT	NT	NT
Fluorene	1,000	2,500	56	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	ND<0.20	NT	NT	0.30	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	0.23	NT	NT	1.0	NT	NT	NT
Pyrene	1,000	2,500	40	NT	ND<0.20	NT	NT	1.1	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	ND<0.005	NT	NT
tert-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	ND<0.005	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	NT	NT	NT	NT	ND<0.005	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	ND<0.005	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	ND<0.005	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.005	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	ND<0.005	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	ND<0.005	NT	NT

Table 4

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/Commercial	GB Area	TB-C (0-2)	TB-C (2-4)	TB-C (5-7)	TB-C (10-12)	TB-D (0-2)	TB-D (2-4)	TB-D (5-7)	TB-D (10-12)
Depth Below Grade (ft.)											
Total Metals											
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	ND<2.0	NT	NT
Arsenic	10	10	NA	2.1	670	61	13	34	5.9	5.7	22
Barium	4,700	140,000	NA	NT	28	NT	NT	NT	38	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	ND<1.0	NT	NT
Cadmium	34	1,000	NA	NT	3	NT	NT	NT	ND<1.0	NT	NT
Chromium	100*	100*	NA	NT	7.1	NT	NT	NT	12	NT	NT
Copper	2,500	76,000	NA	NT	23	NT	NT	NT	75	NT	NT
Lead	500	1,000	NA	NT	59	NT	NT	NT	110	NT	NT
Mercury	20	610	NA	NT	0.80	NT	NT	NT	0.48	NT	NT
Nickel	1,400	7,500	NA	NT	6.30	NT	NT	NT	7.4	NT	NT
Selenium	340	10,000	NA	NT	15	NT	NT	NT	2.0	NT	NT
Zinc	20,000	610,000	NA	NT	ND<2.0	NT	NT	NT	53	NT	NT
SPLP Metals											
Arsenic	NA	NA	0.5	NT	ND<0.05	NT	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	NT	0.38	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	0.16	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	ND<50	NT	NT	110	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table 4

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial	GB Area	TB-E (0-2)	TB-E (2-4)	TB-E (5-7)	TB-E (10-12)	TB-F (0-2)	TB-F (2-4)	TB-F (5-7)	TB-F (10-12)
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	0.35	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	0.36	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	ND<0.20	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.010	NT	NT	NT
tert-Butylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.010	NT	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	NT	NT	NT	ND<0.010	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	ND<0.010	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	ND<0.010	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.010	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.010	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	ND<0.010	NT	NT	NT

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/Commercial	GB Area	TB-E (0-2)	TB-E (2-4)	TB-E (5-7)	TB-E (10-12)	TB-F (0-2)	TB-F (2-4)	TB-F (5-7)	TB-F (10-12)
Depth Below Grade (ft.)											
Total Metals											
Antimony	27	8,200	NA	NT	NT	NT	NT	ND<2.0	NT	NT	NT
Arsenic	10	10	NA	11	320	30	46	14	32	6.1	3.2
Barium	4,700	140,000	NA	NT	NT	NT	NT	17	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	ND<1.0	NT	NT	NT
Cadmium	34	1,000	NA	NT	ND<1.0	NT	NT	ND<1.0	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	ND<2.0	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	11	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	6.4	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	ND<2.0	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	2.3	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	2.7	NT	NT	NT
SPLP Metals											
Arsenic	NA	NA	0.5	NT	ND<0.05	NT	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	ND<50	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table 4

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)								
	Residential	Industrial/ Commercial		GB Area	TB-G (0-2)	TB-G (2-4)	TB-G (5-7)	TB-G (10-12)	TB-H (0-2)	TB-H (2-4)	TB-H (5-7)	TB-H (10-12)
USEPA Method 8270 Polynuclear Aromatics												
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)												
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT	NT	NT	NT

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/Commercial	GB Area	TB-G (0-2)	TB-G (2-4)	TB-G (5-7)	TB-G (10-12)	TB-H (0-2)	TB-H (2-4)	TB-H (5-7)	TB-H (10-12)
Depth Below Grade (ft.)											
Total Metals											
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	6.9	93	7.6	ND<2.0	17	110	4.5	2.9
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
SPLP Metals											
Arsenic	NA	NA	0.5	NT	ND<0.05	NT	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	460	79	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
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**Comparison of Test Boring Soil Sample Analyte Concentrations
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QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial	GB Area	TB-I (0-2)	TB-I (2-4)	TB-I (10-12)	TB-J (0-1)	TB-J (2-4)	TB-K (0-5)	TB-K (2-3)	TB-L (1-2)
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	ND<0.20	NT	NT	0.31	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	ND<0.20	NT	NT	0.36	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	ND<0.20	NT	NT	0.25	NT	NT	NT
Chrysene	84	780	1	NT	0.22	NT	NT	0.30	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	ND<0.20	NT	NT	0.61	NT	NT	NT
Fluorene	1,000	2,500	56	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.20	NT	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	0.27	NT	NT	0.28	NT	NT	NT
Pyrene	1,000	2,500	40	NT	ND<0.20	NT	NT	0.55	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT	NT	NT

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)								
	Residential	Industrial/ Commercial		GB Area	TB-I (0-2)	TB-I (2-4)	TB-I (10-12)	TB-J (0-1)	TB-J (2-4)	TB-K (0-5)	TB-K (2-3)	TB-L (1-2)
Depth Below Grade (ft.)												
Total Metals												
Antimony	27	8,200	NA	NT	ND<2.0	NT	NT	3.7	NT	NT	NT	NT
Arsenic	10	10	NA	2.2	3.9	5.3	ND<2.0	6.4	3.8	29	2.8	2.8
Barium	4,700	140,000	NA	NT	11	NT	NT	74	NT	NT	NT	NT
Beryllium	2	2	NA	NT	ND<1.0	NT	NT	ND<1.0	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	ND<1.0	NT	NT	1.7	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	4.4	NT	NT	8.1	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	33	NT	NT	760	NT	NT	NT	NT
Lead	500	1,000	NA	NT	21	NT	NT	1,000	NT	NT	NT	NT
Mercury	20	610	NA	NT	0.71	NT	NT	1.9	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	4.7	NT	NT	11	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	ND<1.0	NT	NT	ND<1.0	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	28	NT	NT	1,000	NT	NT	NT	NT
SPLP Metals												
Arsenic	NA	NA	0.5	NT	ND<0.05	NT	NT	ND<0.05	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	ND<50	NT	ND<50	330	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial	GB Area	TB-L (2-4)	TB-L (5-6)	TB-L (10-12)	TB-M (0.5-1)	TB-O (0.5-2)	TB-O (5-7)	TB-O (10-12)	TB-P/ MW-D (0.5-1.5)
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	0.21	NT	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	ND<0.20	NT	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	0.20	NT	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT	NT
tert-Butylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT	NT

4
**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)								
	Residential	Industrial/ Commercial		GB Area	TB-L (2-4)	TB-L (5-6)	TB-L (10-12)	TB-M (0.5-1)	TB-O (0.5-2)	TB-O (5-7)	TB-O (10-12)	TB-P/ MW-D (0.5-1.5)
Depth Below Grade (ft.)												
Total Metals												
Antimony	27	8,200	NA	4.1	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	62	11	ND<2.0	ND<2.0	36	7.1	2.6	ND<2.0	NT
Barium	4,700	140,000	NA	23	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	3.2	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	ND<1.0	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	17	NT	NT	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	210	NT	NT	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	160	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	0.93	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	70	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	ND<1.0	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	130	NT	NT	NT	NT	NT	NT	NT	NT
SPLP Metals												
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	NT	ND<0.05	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	390	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- = Concentration exceeds associated criterion.

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/Commercial	GB Area	TB-P/ MW-D (2-4)	TB-P/ MW-D (5-7)	TB-P/ MW-D (10-12)	TB-Q/ MW-E (2-4)	TB-Q/ MW-E (8-10)	TB-Q/ MW-E (10-12)	TB-R/ MW-F (0-2)	TB-R/ MW-F (2-4)
Depth Below Grade (ft.)											
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	ND<0.005	ND<0.005
tert-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	ND<0.005	ND<0.005
1,1-Dichloroethane	500	1,000	14	NT	NT	NT	NT	NT	NT	ND<0.005	ND<0.005
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT	ND<0.005	ND<0.005
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT	ND<0.005	ND<0.005
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	ND<0.005	ND<0.005
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	ND<0.005	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT	ND<0.005	ND<0.005

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial	GB Area	TB-P/ MW-D (2-4)	TB-P/ MW-D (5-7)	TB-P/ MW-D (10-12)	TB-Q/ MW-E (2-4)	TB-Q/ MW-E (8-10)	TB-Q/ MW-E (10-12)	TB-R/ MW-F (0-2)	TB-R/ MW-F (2-4)
Depth Below Grade (ft.)											
Total Metals											
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	ND<2.0	7.4	ND<2.0	34	ND<2.0	ND<2.0	2.2	26
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	NT	NT
SPLP Metals											
Arsenic	NA	NA	0.5	NT	NT	NT	0.09	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	140	ND<50	NT	ND<50	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial		GB Area	TB-R/ MW-F (5-7)	TB-R/ MW-F (10-12)	TB-S (0-1)	TB-S (2-3.3)	TB-S (5-7)	TB-S (10-12)	TB-T (0-2)
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	5.0	NT	NT	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	2.0	NT	NT	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	9.3	NT	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	22	NT	NT	NT	1.4	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	25	NT	NT	NT	2.4	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	9.3	NT	NT	NT	1.7	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	8.7	NT	NT	NT	0.87	NT	NT	NT
Benzo[a]pyrene	1	1	1	17	NT	NT	NT	1.9	NT	NT	NT
Chrysene	84	780	1	21	NT	NT	NT	2.3	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	2.5	NT	NT	NT	0.49	NT	NT	NT
Fluoranthene	1,000	2,500	56	65	NT	NT	NT	1.7	NT	NT	NT
Fluorene	1,000	2,500	56	7.6	NT	NT	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	9.6	NT	NT	NT	1.2	NT	NT	NT
Naphthalene	1,000	2,500	56	3.4	NT	NT	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	71	NT	NT	NT	0.90	NT	NT	NT
Pyrene	1,000	2,500	40	57	NT	NT	NT	1.9	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT
tert-Butylbenzene	500	1,000	14	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT
1,1-Dichloroethane	500	1,000	14	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	0.011	NT	NT
Ethylbenzene	500	1,000	10.1	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT
Naphthalene	1,000	2,500	56	0.38	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.005	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.005	ND<0.005	NT	0.039	ND<0.005	0.023	NT	NT

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)								
	Residential	Industrial/ Commercial		GB Area	TB-R/ MW-F (5-7)	TB-R/ MW-F (10-12)	TB-S (0-1)	TB-S (2-3.3)	TB-S (5-7)	TB-S (10-12)	TB-T (0-2)	TB-T (2-4)
Depth Below Grade (ft.)												
Total Metals												
Antimony	27	8,200	NA	3.6	NT	NT	NT	ND<2.0	NT	NT	NT	NT
Arsenic	10	10	NA	60	43	23	50	19	19	2.7	4.0	
Barium	4,700	140,000	NA	28	NT	NT	NT	33	NT	NT	NT	NT
Beryllium	2	2	NA	ND<1.0	NT	NT	NT	ND<1.0	NT	NT	NT	NT
Cadmium	34	1,000	NA	ND<1.0	NT	NT	NT	ND<1.0	NT	NT	NT	NT
Chromium	100*	100*	NA	10	NT	NT	NT	10	NT	NT	NT	NT
Copper	2,500	76,000	NA	75	NT	NT	NT	82	NT	NT	NT	NT
Lead	500	1,000	NA	880	NT	NT	NT	62	NT	NT	NT	NT
Mercury	20	610	NA	4.4	NT	NT	NT	0.21	NT	NT	NT	NT
Nickel	1,400	7,500	NA	7.8	NT	NT	NT	16	NT	NT	NT	NT
Selenium	340	10,000	NA	5.4	NT	NT	NT	1.3	NT	NT	NT	NT
Zinc	20,000	610,000	NA	28	NT	NT	NT	80	NT	NT	NT	NT
SPLP Metals												
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	NT	NT	NT	NT	ND<0.05
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	7,500	710	260	ND<50	480	860	ND<50	ND<50	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- = Concentration exceeds associated criterion.

Table 4

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/Commercial	GB Area	TB-T (5-7)	TB-T (10-12)	TB-U/MW-G (1-3)	TB-U/MW-G (3-5)	TB-U/MW-G (5-7)	TB-U/MW-G (10-12)	TB-V (0-2)	TB-V (2-4)
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	NT	0.76	ND<0.20	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	0.55	ND<0.20	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	1.6	ND<0.20	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	5.7	ND<0.20	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	6.5	ND<0.20	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	3.2	ND<0.20	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	2.0	ND<0.20	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	4.8	ND<0.20	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	4.7	ND<0.20	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	0.74	ND<0.20	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	13	ND<0.20	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	0.79	ND<0.20	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	2.9	ND<0.20	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	0.41	ND<0.20	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	4.7	ND<0.20	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	11	ND<0.20	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT	NT	NT

Table 4

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial		GB Area	TB-T (5-7)	TB-T (10-12)	TB-U/ MW-G (1-3)	TB-U/ MW-G (3-5)	TB-U/ MW-G (5-7)	TB-U/ MW-G (10-12)	TB-V (0-2)
Total Metals											
Antimony	27	8,200	NA	NT	38	2.6	NT	NT	NT	NT	NT
Arsenic	10	10	NA	ND<2.0	3.5	11	10	7.1	5.0	ND<2.0	29
Barium	4,700	140,000	NA	NT	13	20	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	ND<1.0	ND<1.0	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	ND<1.0	ND<1.0	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	7.5	6.8	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	150	25	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	57	11	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	1.8	ND<0.20	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	12	18	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	ND<1.0	1.4	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	70	15	NT	NT	NT	NT	NT
SPLP Metals											
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT	NT	0.065
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	300	ND<50	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table 4

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial	GB Area	TB-V (5-6.8)	TB-W/ MW-H (0-2)	TB-W/ MW-H (2-4)	TB-W/ MW-H (5-7)	TB-W/ MW-H (10-12)	TB-X (0-2)	TB-X (2-4)	TB-X (5-7)
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	0.46	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	1.2	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	1.6	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	0.79	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	0.47	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	1.0	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	1.2	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	0.21	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	3.2	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	0.67	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	1.4	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	2.9	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	0.035	ND<0.005	NT	NT	NT
tert-Butylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	0.0092	ND<0.005	NT	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	ND<0.005	0.0061	ND<0.005	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	ND<0.005	ND<0.005	0.040	ND<0.005	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	0.037	ND<0.005	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/Commercial		GB Area	TB-V (5-6.8)	TB-W/ MW-H (0-2)	TB-W/ MW-H (2-4)	TB-W/ MW-H (5-7)	TB-W/ MW-H (10-12)	TB-X (0-2)	TB-X (2-4)
Total Metals											
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	NT	NT	NT	NT
Arsenic	10	10	NA	3.3	2.7	6.9	3.4	5.8	ND<2.0	ND<2.0	ND<2.0
Barium	4,700	140,000	NA	NT	NT	31	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	ND<1.0	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	11	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	54	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	31	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	1.0	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	7.9	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	1.1	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	51	NT	NT	NT	NT	NT
SPLP Metals											
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	ND<0.05	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	270	NT	NT	2,800	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial		GB Area	TB-X	TB-Y	TB-Y	TB-Y	TB-Z/ MW-I	TB-Z/ MW-I	TB-Z/ MW-I
Depth Below Grade (ft.)				(7)	(0-2)	(2-4)	(5-7)	(0-2)	(2-4)	(5-7)	(10-12)
USEPA Method 8270 Polynuclear Aromatics											
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	0.67	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	0.91	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	0.53	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	0.32	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	0.59	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	0.62	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	1.3	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	0.40	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	0.64	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	1.2	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)											
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT	NT	NT

Table 4

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Central Portion, New Haven, CT
Sampling Dates: May 9, 10, 11, 14, and 15, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial		GB Area	TB-X	TB-Y	TB-Y	TB-Y	TB-Z/ MW-1	TB-Z/ MW-1	TB-Z/ MW-1
Depth Below Grade (ft.)				(7)	(0-2)	(2-4)	(5-7)	(0-2)	(2-4)	(5-7)	(10-12)
Total Metals											
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	ND<2.0	NT	NT
Arsenic	10	10	NA	ND<2.0	6.7	ND<2.0	ND<2.0	2.1	ND<2.0	ND<2.0	2.5
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	23	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	ND<1.0	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	ND<1.0	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	7.5	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	45	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	15	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	0.24	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	7.8	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	ND<1.0	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	24	NT	NT
SPLP Metals											
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50.0	NT	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	520	NT	NT	350	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- = Concentration exceeds associated criterion.

Table 5
Comparison of Soil Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-1, New Haven, CT
Sampling Date: May 2, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB	SS-N (0-1)	SS-O (0-0.5)	SS-P (0-0.5)	SS-Q (0-0.5)	SS-R (0-0.5)	SS-S (0-0.5)
Depth Below Grade (ft.)										
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	NT	ND<0.20	ND<0.20	ND<0.20	0.59	1.3	0.54
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	ND<0.20	ND<0.20	ND<0.20	0.78	ND<0.20
Anthracene	1,000	2,500	400	NT	ND<0.20	0.32	ND<0.20	1.4	3.1	1.5
Benzo[a]anthracene	1	7.8	1	NT	0.34	1.0	0.31	3.6	7.0	4.2
Benzo[a]pyrene	1	1	1	NT	0.29	0.76	0.23	2.7	5.6	3.3
Benzo[b]fluoranthene	1	7.8	1	NT	0.46	1.5	0.53	4.4	9.2	5.4
Benzo[g,h,i]perylene	1,000	2,500	42	NT	ND<0.20	0.55	0.22	1.2	2.6	1.5
Benzo[k]fluoranthene	8.4	78	1	NT	0.20	0.66	0.23	1.1	1.8	1.5
Chrysene	84	780	1	NT	0.34	1.2	0.39	3.4	6.5	3.9
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	ND<0.20	ND<0.20	0.27	0.66	0.42
Fluoranthene	1,000	2,500	56	NT	0.52	1.9	0.47	7.3	14	8.9
Fluorene	1,000	2,500	56	NT	ND<0.20	ND<0.20	ND<0.20	0.60	1.2	0.44
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	ND<0.20	0.54	ND<0.20	1.1	2.5	1.6
Naphthalene	1,000	2,500	56	NT	ND<0.20	ND<0.20	ND<0.20	ND<0.20	0.77	0.3
Phenanthrene	1,000	2,500	40	NT	0.33	1.9	0.49	6.9	13	7.2
Pyrene	1,000	2,500	40	NT	0.43	1.6	0.43	6.5	14	7.8
Connecticut Extractable Total Petroleum Hydrocarbons (CT ETPH)	500	2,500	2,500	3,200	ND<50	180	ND<50	130	230	450
Total Metals										
Arsenic	10	10	NA	12	37	270	48	65	99	62
Barium	4,700	140,000	NA	52	62	31	78	51	320	57
Cadmium	34	1,000	NA	1.4	1.3	1.2	ND<1.0	1.5	5.0	2.3
Chromium	100	100	NA	17	8.0	8.3	6.6	8.9	17	12
Lead	500	1,000	NA	470	120	160	160	140	1,700	280

**Comparison of Soil Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-1, New Haven, CT
Sampling Date: May 2, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/Commercial		GB	SS-N	SS-O	SS-P	SS-Q	SS-R	SS-S
Mercury	20	610	NA	1.4	ND<0.20	ND<0.20	ND<0.20	0.96	1.1	1.3
Selenium	340	10,000	NA	ND<1.0	ND<1.0	1.6	ND<1.0	ND<1.0	ND<1.0	ND<1.0
SPLP Metals⁽¹⁾										
Arsenic	NA	NA	0.5	ND<0.05	ND<0.05	0.17	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium	NA	NA	10	0.30	0.59	0.20	0.28	0.36	0.31	0.40
Mercury	NA	NA	0.02	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium	NA	NA	0.5	ND<0.01	ND<0.01	0.015	ND<0.01	ND<0.01	ND<0.01	ND<0.01
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	1	10	NA	ND	ND	ND	ND	ND	ND	ND
USEPA Method 8260 Volatile Organic Compounds (VOCs)	NA	NA	NA	NT	ND	ND	ND	ND	ND	ND

- Notes:**
- mg/kg = milligrams per kilogram.
 - ppm = parts per million (comparable to mg/kg).
 - ND = Not detected above laboratory minimum detection limit.
 - NC = No criterion established.
 - NT = Not tested.
 - NA = Not applicable.
 - (1) = Test performed on leachate from Synthetic Precipitation Leaching Procedure (SPLP) or Toxicity Characteristic Leaching Procedure (TCLP). Units are milligrams per liter (mg/L).
 - = 100 mg/kg for hexavalent chromium.
 - Bold results indicate exceedances of RSR Numerical Criteria.

Table AOC-2.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: February 13, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial		GB Area	TB-XX (0-2)	TB-XX (2-4)	TB-XX (5-7)	TB-XX (10-12)	TB-XX (15-17)	TB-YY (0-2)	TB-YY (2-4)
Depth Below Grade (ft.)											
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)											
Acenaphthene	1,000	2,500	84	ND<0.20	0.35	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20	
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20	
Anthracene	1,000	2,500	400	ND<0.20	0.62	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20	
Benzo[a]anthracene	1	7.8	1	ND<0.20	1.9	0.37	ND<0.20	NT	ND<0.20	0.66	
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	2.3	0.48	ND<0.20	NT	ND<0.20	0.63	
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	1.3	0.30	ND<0.20	NT	ND<0.20	0.33	
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	0.98	0.21	ND<0.20	NT	ND<0.20	0.31	
Benzo[a]pyrene	1	1	1	ND<0.20	1.8	0.36	ND<0.20	NT	ND<0.20	0.54	
Chrysene	84	780	1	ND<0.20	1.6	0.32	ND<0.20	NT	ND<0.20	0.53	
Dibenz[a,h]anthracene	1	1	1	ND<0.20	0.29	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20	
Fluoranthene	1,000	2,500	56	ND<0.20	4.4	0.50	0.29	NT	ND<0.20	1.03	
Fluorene	1,000	2,500	56	ND<0.20	0.27	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20	
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	1.3	0.28	ND<0.20	NT	ND<0.20	0.34	
Naphthalene	1,000	2,500	56	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20	
Phenanthrene	1,000	2,500	40	ND<0.20	3.4	0.25	ND<0.20	NT	ND<0.20	0.479	
Pyrene	1,000	2,500	40	ND<0.20	3.6	0.48	0.30	NT	ND<0.20	0.94	
USEPA Method 8260 Volatile Organic Compounds (VOCs)	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	
Total Metals											
Arsenic	10	10	NA	1.6	ND<1.0	1.6	ND<1.0	ND<1.0	1.9	ND<1.0	
Barium	4,700	140,000	NA	NT	16	NT	NT	NT	NT	19	
Cadmium	34	1,000	NA	NT	0.55	NT	NT	NT	NT	ND<0.50	
Chromium	100*	100*	NA	NT	4.5	NT	NT	NT	NT	4.2	
Copper	2,500	76,000	NA	NT	23	NT	NT	NT	NT	21	
Lead	500	1,000	NA	NT	33	NT	NT	NT	NT	25	

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030b2

Table AOC-2.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: February 13, 2002**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-XX (0-2)	TB-XX (2-4)	TB-XX (5-7)	TB-XX (10-12)	TB-XX (15-17)	TB-YY (0-2)
Depth Below Grade (ft.)										
Nickel	1,400	7,500	NA	NT	4.3	NT	NT	NT	NT	4.1
Thallium	5.4	160	NA	NT	ND<2.0	NT	NT	NT	NT	ND<2.0
Vanadium	470	14,000	NA	NT	14	NT	NT	NT	NT	10
Zinc	20,000	610,000	NA	NT	31	NT	NT	NT	NT	22
SPLP Metals										
Barium	NA	NA	10	NT	0.41	NT	NT	NT	NT	0.42
Zinc	NA	NA	50	NT	0.22	NT	NT	NT	NT	0.19
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	220	ND<50	ND<50	NT	53	220

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- = Concentration exceeds associated criterion.

Table AOC-2.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: February 13, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-YY (5-7)	TB-YY (10-12)	TB-ZZ (0-1.6)	TB-ZZ (2.5-3.5)	TB-ZZ (5-7)	TB-ZZ (10-12)
Depth Below Grade (ft.)										
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	0.86	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	0.21	ND<0.20	1.4	NT
Anthracene	1,000	2,500	400	ND<0.20	ND<0.20	ND<0.20	0.41	ND<0.20	6.7	NT
Benzo[a]anthracene	1	7.8	1	0.64	0.524	ND<0.20	2.7	0.25	16	NT
Benzo[b]fluoranthene	1	7.8	1	0.87	0.81	ND<0.20	3.9	0.38	25	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.47	0.34	ND<0.20	1.3	ND<0.20	4.2	NT
Benzo[k]fluoranthene	8.4	78	1	0.44	0.33	ND<0.20	1.4	ND<0.20	6.2	NT
Benzo[a]pyrene	1	1	1	0.67	0.58	ND<0.20	3.1	0.29	19	NT
Chrysene	84	780	1	0.54	0.56	ND<0.20	2.3	0.21	13	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<0.20	ND<0.20	0.35	ND<0.20	1.5	NT
Fluoranthene	1,000	2,500	56	1.00	0.79	ND<0.20	5.8	0.26	54	NT
Fluorene	1,000	2,500	56	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	1.7	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.46	0.34	ND<0.20	1.4	ND<0.20	5.0	NT
Naphthalene	1,000	2,500	56	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	0.30	NT
Phenanthrene	1,000	2,500	40	0.49	0.25	ND<0.20	2.0	ND<0.20	17	NT
Pyrene	1,000	2,500	40	0.90	0.83	ND<0.20	5.6	0.28	50	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Total Metals										
Arsenic	10	10	NA	1.0	1.3	1.9	1.3	1.5	1.2	ND<1.0
Barium	4,700	140,000	NA	NT	NT	NT	26	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	0.74	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	7.5	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	32	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	36	NT	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030b2

Table AOC-2.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: February 13, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-YY (5-7)	TB-YY (10-12)	TB-ZZ (0-1.6)	TB-ZZ (2.5-3.5)	TB-ZZ (5-7)	TB-ZZ (10-12)
Depth Below Grade (ft.)										
Nickel	1,400	7,500	NA	NT	NT	NT	7.0	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	3.1	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	23	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	36	NT	NT	NT
SPLP Metals										
Barium	NA	NA	10	NT	NT	NT	0.37	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	0.19	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	60	330	ND<50	180	ND<50	1,200	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table AOC-2.2

**Comparison of Confirmatory Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial Commercial		GB Area	AOC2 CS1	AOC2 CS1	AOC2 CS1	AOC2 CS2	AOC2 CS2
Depth Below Grade (ft.)				(0-2)	(2-4)	(5-7)	(0-2)	(2-4)	
Sample Collection Date				1/30/02	1/30/02	1/30/02	3/12/02	1/30/02	3/12/02
USEPA Method 8270 Polynuclear Aromatics (PAHs)									
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	0.97	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	ND<0.20	ND<0.20	0.41	ND<0.20	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	0.46	1.00	3.50	0.53	0.40	NT
Benzo[b]fluoranthene	1	7.8	1	0.68	1.70	5.80	0.75	0.71	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.31	0.56	1.50	0.40	0.22	NT
Benzo[k]fluoranthene	8.4	78	1	0.31	0.65	2.10	0.30	0.33	NT
Benzo[a]pyrene	1	1	1	0.55	1.30	4.40	0.54	0.54	NT
Chrysene	84	780	1	0.37	0.90	3.20	0.48	0.35	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<0.20	0.44	ND<0.20	ND<0.20	NT
Fluoranthene	1,000	2,500	56	0.68	2.00	6.90	0.72	0.63	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.30	0.62	1.60	0.42	0.23	NT
Phenanthrene	1,000	2,500	40	0.27	0.81	2.10	0.29	0.24	NT
Pyrene	1,000	2,500	40	0.64	1.80	7.80	0.70	0.61	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
	NA	NA	NA	ND	NT	ND	ND	ND	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
	NA	NA	NA	NT	NT	NT	ND	NT	ND
Connecticut Extractable Total Petroleum Hydrocarbons (ETPH)									
	500	2,500	2,500	ND<50	ND<50	71	NT	520	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- = Concentration exceeds associated criterion.

Table AOC-2.2

**Comparison of Confirmatory Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg) GB Area	Soil Sample Concentrations (ppm)						
	Residential	Industrial Commercial		AOC2 CS2 (5-7)	AOC2 CS3 (2-4)	AOC2 CS3 (5-7)	AOC2 CS4 (0-2)	AOC2 CS4 (2-4)	AOC2 CS4 (5-7)	
Depth Below Grade (ft.)										
Sample Collection Date				1/30/02	3/12/02	1/30/02	1/30/02	1/30/02	1/30/02	1/30/02
USEPA Method 8270 Polynuclear Aromatics (PAHs)										
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	0.72	NT	0.29	0.64	ND<0.20	0.61	0.59
Benzo[b]fluoranthene	1	7.8	1	1.40	NT	0.49	1.10	ND<0.20	1.20	1.20
Benzo[g,h,i]perylene	1,000	2,500	42	0.36	NT	ND<0.20	0.34	ND<0.20	0.29	0.31
Benzo[k]fluoranthene	8.4	78	1	0.65	NT	0.24	0.48	ND<0.20	0.48	0.52
Benzo[a]pyrene	1	1	1	0.93	NT	0.36	0.85	ND<0.20	0.79	0.82
Chrysene	84	780	1	0.67	NT	0.27	0.58	ND<0.20	0.57	0.55
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	1.20	NT	0.47	0.87	ND<0.20	1.10	0.99
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.38	NT	ND<0.20	0.39	ND<0.20	0.33	0.34
Phenanthrene	1,000	2,500	40	0.31	NT	ND<0.20	0.29	ND<0.20	0.54	0.35
Pyrene	1,000	2,500	40	1.20	NT	0.44	0.98	ND<0.20	1.00	1.00
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
	NA	NA	NA	NT	ND	NT	ND	NT	NT	ND
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
	NA	NA	NA	NT	ND	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (ETPH)										
	500	2,500	2,500	ND<50	NT	ND<50	55	ND<50	ND<50	50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ☐ = Concentration exceeds associated criterion.

Table AOC-2.2

**Comparison of Confirmatory Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg) GB Area	Soil Sample Concentrations (ppm)						
	Residential	Industrial Commercial		AOC2 CS5 (2-4)	AOC2 CS5 (5-7)	AOC2 CS6 (0-0.25)	AOC2 CS6 (0-2)		AOC2 CS6 (2-4)	
Depth Below Grade (ft.)										
Sample Collection Date				1/30/02	1/30/02	3/12/02	1/30/02	3/12/02	1/30/02	3/12/02
USEPA Method 8270 Polynuclear Aromatics (PAHs)										
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	NT	ND<0.20	NT	ND<0.20	NT
Anthracene	1,000	2,500	400	ND<0.20	ND<0.20	NT	ND<0.20	NT	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	0.34	0.57	NT	ND<0.20	NT	0.57	NT
Benzo[b]fluoranthene	1	7.8	1	0.62	1.00	NT	ND<0.20	NT	1.20	NT
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	0.27	NT	ND<0.20	NT	0.36	NT
Benzo[k]fluoranthene	8.4	78	1	0.30	0.56	NT	ND<0.20	NT	0.60	NT
Benzo[a]pyrene	1	1	1	0.40	0.77	NT	ND<0.20	NT	0.87	NT
Chrysene	84	780	1	0.28	0.51	NT	ND<0.20	NT	0.51	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<0.20	NT	ND<0.20	NT	ND<0.20	NT
Fluoranthene	1,000	2,500	56	0.55	0.86	NT	ND<0.20	NT	0.96	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	0.33	NT	ND<0.20	NT	0.35	NT
Phenanthrene	1,000	2,500	40	ND<0.20	0.31	NT	ND<0.20	NT	0.48	NT
Pyrene	1,000	2,500	40	0.51	0.91	NT	ND<0.20	NT	0.92	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
	NA	NA	NA	NT	ND	NT	NT	ND	ND	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
	NA	NA	NA	NT	NT	ND	NT	ND	NT	ND
Connecticut Extractable Total Petroleum Hydrocarbons (ETPH)										
	500	2,500	2,500	ND<50	56	NT	ND<50	NT	80	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ☐ = Concentration exceeds associated criterion.

Table AOC-2.2
Comparison of Confirmatory Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial Commercial		GB Area	AOC2 CS6	AOC2 CS7	AOC2 CS7	AOC2 CS8	AOC2 CS9
Depth Below Grade (ft.)				(5-7)		(2-4)	(5-7)	(7-7.5)	(7-7.5)
Sample Collection Date				1/30/02	3/12/02	1/30/02	1/30/02	1/30/02	1/30/02
USEPA Method 8270 Polynuclear Aromatics (PAHs)									
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	0.20	ND<0.20	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	NT	0.37	ND<0.20	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	0.90	NT	1.10	0.91	0.26	0.46
Benzo[b]fluoranthene	1	7.8	1	2.10	NT	2.00	1.90	0.59	0.96
Benzo[g,h,i]perylene	1,000	2,500	42	0.45	NT	0.50	0.51	ND<0.20	0.25
Benzo[k]fluoranthene	8.4	78	1	0.76	NT	1.10	0.72	0.33	0.51
Benzo[a]pyrene	1	1	1	1.30	NT	1.50	1.40	0.43	0.66
Chrysene	84	780	1	0.77	NT	0.92	0.80	0.23	0.41
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	1.70	NT	2.10	1.70	0.39	0.69
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.48	NT	0.61	0.55	ND<0.20	0.28
Phenanthrene	1,000	2,500	40	0.67	NT	0.94	0.55	ND<0.20	0.28
Pyrene	1,000	2,500	40	1.60	NT	2.10	1.80	0.41	0.73
USEPA Method 8260 Volatile Organic Compounds (VOCs)	NA	NA	NA	ND	NT	ND	ND	ND	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	NA	NA	NA	NT	ND	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (ETPH)	500	2,500	2,500	130	NT	55	170	ND<50	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- = Concentration exceeds associated criterion.

Table AOC-2.4
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg) GB Area	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial		TB-AA/ MW-J (0-2)	TB-AA/ MW-J (2-4)	TB-AA/ MW-J (5-6.5)	TB-AA/ MW-J (10-12)	TB-BB/ MW-K (0-2)	TB-BB/ MW-K (2-4)
Depth Below Grade (ft.)									
USEPA Method 8270 Polynuclear Aromatics									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	ND<0.2	ND<0.2
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	ND<0.2	ND<0.2
Anthracene	1,000	2,500	400	NT	NT	NT	NT	ND<0.2	ND<0.2
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	0.39	0.65
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	0.45	0.91
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	0.38	0.55
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	ND<0.2	0.48
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	0.39	0.73
Chrysene	84	780	1	NT	NT	NT	NT	0.24	0.39
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	ND<0.2	ND<0.2
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	0.52	1.1
Fluorene	1,000	2,500	56	NT	NT	NT	NT	ND<0.2	ND<0.2
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	0.36	0.51
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.2	ND<0.2
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	0.21	0.48
Pyrene	1,000	2,500	40	NT	NT	NT	NT	0.52	0.80
Total Metals									
Arsenic	10	10	NA	1.7	1.1	ND<1.0	1.0	1.1	1.2
Barium	4,700	140,000	NA	62	120	27	20	38	41
Cadmium	34	1,000	NA	0.82	0.59	0.69	ND<0.50	0.55	0.53
Chromium	100*	100*	NA	18	8.0	10	5.8	11	10
Copper	2,500	76,000	NA	27	23	39	23	36	30
Lead	500	1,000	NA	8.8	28	30	36	35	42

Table AOC-2.4
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-AA/ MW-J (0-2)	TB-AA/ MW-J (2-4)	TB-AA/ MW-J (5-6.5)	TB-AA/ MW-J (10-12)	TB-BB/ MW-K (0-2)	TB-BB/ MW-K (2-4)
Depth Below Grade (ft.)										
Nickel	1,400	7,500	NA	16	6.6	12	5.2	8.0	7.6	
Silver	340	10,000	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	
Zinc	20,000	610,000	NA	37	41	38	35	39	47	
SPLP Metals										
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT	
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	230	520	

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table AOC-2.4

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-BB/ MW-K (5-5.9)	TB-BB/ MW-K (10-12)	TB-CC (0-2)	TB-CC (2-4)	TB-CC (5-7)	TB-CC (10-12)
Depth Below Grade (ft.)									
USEPA Method 8270 Polynuclear Aromatics									
Acenaphthene	1,000	2,500	84	ND<0.2	ND<0.2	NT	ND<0.2	ND<0.2	NT
Acenaphthylene	1,000	2,500	84	0.25	ND<0.2	NT	ND<0.2	ND<0.2	NT
Anthracene	1,000	2,500	400	0.41	ND<0.2	NT	ND<0.2	ND<0.2	NT
Benzo[a]anthracene	1	7.8	1	1.6	0.47	NT	0.53	1.0	NT
Benzo[b]fluoranthene	1	7.8	1	1.8	0.59	NT	0.68	1.5	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.81	0.58	NT	0.45	0.89	NT
Benzo[k]fluoranthene	8.4	78	1	0.76	0.31	NT	0.33	0.58	NT
Benzo[a]pyrene	1	1	1	1.8	0.54	NT	0.61	1.2	NT
Chrysene	84	780	1	1.0	0.28	NT	0.25	0.62	NT
Dibenz[a,h]anthracene	1	1	1	0.26	ND<0.2	NT	ND<0.2	0.27	NT
Fluoranthene	1,000	2,500	56	4.2	0.67	NT	0.89	1.8	NT
Fluorene	1,000	2,500	56	ND<0.2	ND<0.2	NT	ND<0.2	ND<0.2	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.84	0.41	NT	0.40	0.80	NT
Naphthalene	1,000	2,500	56	ND<0.2	ND<0.2	NT	ND<0.2	ND<0.2	NT
Phenanthrene	1,000	2,500	40	0.96	0.26	NT	0.43	0.65	NT
Pyrene	1,000	2,500	40	5.0	0.64	NT	0.57	1.8	NT
Total Metals									
Arsenic	10	10	NA	ND<1.0	1.0	1.5	1.0	1.6	1.1
Barium	4,700	140,000	NA	42	50	41	33	41	32
Cadmium	34	1,000	NA	0.56	ND<0.50	0.56	0.53	0.76	ND<0.50
Chromium	100*	100*	NA	10	11	8.9	9.4	11	7.3
Copper	2,500	76,000	NA	31	24	94	35	34	27
Lead	500	1,000	NA	28	29	29	45	39	37

Table AOC-2.4
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-BB/ MW-K (5-5.9)	TB-BB/ MW-K (10-12)	TB-CC (0-2)	TB-CC (2-4)	TB-CC (5-7)	TB-CC (10-12)
Nickel	1,400	7,500	NA	8.1	7.6	7.8	7.7	8.7	6.0
Silver	340	10,000	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Zinc	20,000	610,000	NA	31	37	38	55	42	35
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	NT	NT
Barium	NA	NA	10	NT	NT	NT	0.37	NT	NT
Zinc	NA	NA	50	NT	NT	NT	0.18	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	790	140	NT	270	210	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table AOC-2.4

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-DD (0-2)	TB-DD (2-4)	TB-DD (5-6)	TB-DD (10-12)	TB-EE (0-2)
Depth Below Grade (ft.)									
USEPA Method 8270 Polynuclear Aromatics									
Acenaphthene	1,000	2,500	84	ND<0.2	ND<0.2	ND<0.2	NT	NT	8.3
Acenaphthylene	1,000	2,500	84	ND<0.2	ND<0.2	ND<0.2	NT	NT	2.6
Anthracene	1,000	2,500	400	ND<0.2	ND<0.2	ND<0.2	NT	NT	20
Benzo[a]anthracene	1	7.8	1	ND<0.2	0.48	0.98	NT	NT	17
Benzo[b]fluoranthene	1	7.8	1	ND<0.2	0.73	2.6	NT	NT	60
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.2	0.50	1.2	NT	NT	6.0
Benzo[k]fluoranthene	8.4	78	1	ND<0.2	0.36	0.98	NT	NT	16
Benzo[a]pyrene	1	1	1	ND<0.2	0.64	2.0	NT	NT	35
Chrysene	84	780	1	ND<0.2	0.26	0.52	NT	NT	19
Dibenz[a,h]anthracene	1	1	1	ND<0.2	ND<0.2	0.32	NT	NT	2.8
Fluoranthene	1,000	2,500	56	ND<0.2	0.76	1.6	NT	NT	64
Fluorene	1,000	2,500	56	ND<0.2	ND<0.2	ND<0.2	NT	NT	10
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.2	0.42	1.1	NT	NT	7.6
Naphthalene	1,000	2,500	56	ND<0.2	ND<0.2	ND<0.2	NT	NT	0.55
Phenanthrene	1,000	2,500	40	ND<0.2	0.55	0.29	NT	NT	70
Pyrene	1,000	2,500	40	ND<0.2	0.64	1.9	NT	NT	54
Total Metals									
Arsenic	10	10	NA	1.5	ND<1.0	1.1	1.2	1.5	ND<1.0
Barium	4,700	140,000	NA	47	30	30	37	49	41
Cadmium	34	1,000	NA	0.77	0.58	ND<0.50	ND<0.50	0.77	0.55
Chromium	100*	100*	NA	18	8.5	9.7	9.0	20	11
Copper	2,500	76,000	NA	27	30	30	27	24	27
Lead	500	1,000	NA	8.0	34	41	44	8.8	19

Table AOC-2.4

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-DD (0-2)	TB-DD (2-4)	TB-DD (5-6)	TB-DD (10-12)	TB-EE (0-2)
Depth Below Grade (ft.)									
Nickel	1,400	7,500	NA	17	6.4	8.5	6.9	17	8.8
Silver	340	10,000	NA	ND<2.0	ND<2.0	3.3	ND<2.0	ND<2.0	ND<2.0
Zinc	20,000	610,000	NA	38	42	44	43	39	38
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	220	310	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table AOC-2.4

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-EE (5-7)	TB-EE (10-11)	TB-FF (0-2)	TB-FF (2-4)	TB-FF (5-7)
USEPA Method 8270 Polynuclear Aromatics									
Acenaphthene	1,000	2,500	84	ND<0.2	ND<0.2	NT	NT	ND<0.2	NT
Acenaphthylene	1,000	2,500	84	ND<0.2	ND<0.2	NT	NT	0.21	NT
Anthracene	1,000	2,500	400	ND<0.2	ND<0.2	NT	NT	ND<0.2	NT
Benzo[a]anthracene	1	7.8	1	0.60	1.0	NT	NT	0.99	NT
Benzo[b]fluoranthene	1	7.8	1	0.92	1.7	NT	NT	1.7	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.46	0.72	NT	NT	0.94	NT
Benzo[k]fluoranthene	8.4	78	1	0.44	0.86	NT	NT	0.74	NT
Benzo[a]pyrene	1	1	1	0.55	1.0	NT	NT	1.4	NT
Chrysene	84	780	1	0.25	0.56	NT	NT	0.64	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.2	0.23	NT	NT	0.23	NT
Fluoranthene	1,000	2,500	56	0.74	1.6	NT	NT	1.3	NT
Fluorene	1,000	2,500	56	ND<0.2	ND<0.2	NT	NT	ND<0.2	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.42	0.77	NT	NT	0.85	NT
Naphthalene	1,000	2,500	56	ND<0.2	ND<0.2	NT	NT	ND<0.2	NT
Phenanthrene	1,000	2,500	40	ND<0.2	0.44	NT	NT	0.26	NT
Pyrene	1,000	2,500	40	0.80	1.7	NT	NT	1.7	NT
Total Metals									
Arsenic	10	10	NA	ND<1.0	ND<1.0	1.5	ND<1.0	1.0	2.6
Barium	4,700	140,000	NA	37	31	51	36	36	41
Cadmium	34	1,000	NA	0.60	ND<0.50	0.82	0.53	0.55	1.1
Chromium	100*	100*	NA	9.9	6.4	21	7.2	8.4	39
Copper	2,500	76,000	NA	30	15	27	22	28	31
Lead	500	1,000	NA	33	15	7.4	30	59	6.1

Table AOC-2.4

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-EE (5-7)	TB-EE (10-11)	TB-FF (0-2)	TB-FF (2-4)	TB-FF (5-7)	TB-GG (0-2)
Depth Below Grade (ft.)										
Nickel	1,400	7,500	NA	7.6	5.0	16	6.1	7.1	22	
Silver	340	10,000	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	
Zinc	20,000	610,000	NA	220	22	39	34	38	42	
SPLP Metals										
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT	
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT	

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table AOC-2.4

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-GG (2-4)	TB-GG (5-7)	TB-HH (0-2)	TB-HH (2-4)	TB-HH (5-7)
USEPA Method 8270 Polynuclear Aromatics									
Acenaphthene	1,000	2,500	84	ND<0.2	NT	ND<0.2	ND<0.2	ND<0.2	ND<0.2
Acenaphthylene	1,000	2,500	84	ND<0.2	NT	ND<0.2	ND<0.2	ND<0.2	ND<0.2
Anthracene	1,000	2,500	400	ND<0.2	NT	ND<0.2	ND<0.2	ND<0.2	ND<0.2
Benzo[a]anthracene	1	7.8	1	0.65	NT	0.36	0.39	0.59	0.22
Benzo[b]fluoranthene	1	7.8	1	1.0	NT	0.51	0.71	1.3	0.29
Benzo[g,h,i]perylene	1,000	2,500	42	0.54	NT	0.21	0.41	0.95	ND<0.2
Benzo[k]fluoranthene	8.4	78	1	0.58	NT	0.33	0.37	0.73	ND<0.2
Benzo[a]pyrene	1	1	1	0.91	NT	0.46	0.41	1.0	0.39
Chrysene	84	780	1	0.42	NT	0.22	0.25	0.31	ND<0.2
Dibenz[a,h]anthracene	1	1	1	0.21	NT	ND<0.2	ND<0.2	ND<0.2	ND<0.2
Fluoranthene	1,000	2,500	56	1.4	NT	0.72	0.59	0.74	ND<0.2
Fluorene	1,000	2,500	56	ND<0.2	NT	ND<0.2	ND<0.2	ND<0.2	ND<0.2
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.56	NT	0.29	0.38	0.86	ND<0.2
Naphthalene	1,000	2,500	56	ND<0.2	NT	ND<0.2	ND<0.2	ND<0.2	ND<0.2
Phenanthrene	1,000	2,500	40	0.53	NT	0.87	0.36	0.26	ND<0.2
Pyrene	1,000	2,500	40	0.84	NT	0.51	0.50	0.59	0.24
Total Metals									
Arsenic	10	10	NA	1.4	1.7	1.1	1.5	1.6	ND<1.0
Barium	4,700	140,000	NA	44	40	42	38	33	37
Cadmium	34	1,000	NA	0.56	0.65	0.57	0.61	0.53	ND<0.50
Chromium	100*	100*	NA	8.7	10	12	19	8.8	7.5
Copper	2,500	76,000	NA	28	43	26	31	35	18
Lead	500	1,000	NA	29	39	24	23	43	16

Table AOC-2.4

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, AOC-2, New Haven, CT
Sampling Date: July 18, 2001**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-GG (2-4)	TB-GG (5-7)	TB-HH (0-2)	TB-HH (2-4)	TB-HH (5-7)
Depth Below Grade (ft.)									
Nickel	1,400	7,500	NA	8.1	14	8.7	8.8	7.7	5.6
Silver	340	10,000	NA	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Zinc	20,000	610,000	NA	42	86	34	41	44	31
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	130	230	710

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table YY
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Southwest Portion, New Haven, CT
Sampling Date: February 13, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-AAA (0-2)	TB-AAA (2-4)	TB-AAA (5-7)	TB-AAA (10-12)	TB-AAA (15-17)	TB-BBB (1-3)
Depth Below Grade (ft.)										
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	0.91	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	1.33	ND<0.20
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	0.24	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	0.51	ND<0.20
Benzo[a]pyrene	1	1	1	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	0.74	ND<0.20
Chrysene	84	780	1	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	0.92	ND<0.20
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	1.0	ND<0.20
Fluorene	1,000	2,500	56	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	0.30	ND<0.20
Naphthalene	1,000	2,500	56	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20
Phenanthrene	1,000	2,500	40	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	0.37	ND<0.20
Pyrene	1,000	2,500	40	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	0.88	ND<0.20
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT	ND<0.50	15
SPLP PCBs										
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT	0.00074
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
4-Isopropyltoluene	500	1,000	41.8	NT	NT	0.0075	NT	NT	NT	NT



**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Southwest Portion, New Haven, CT
Sampling Date: February 13, 2002**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-AAA (0-2)	TB-AAA (2-4)	TB-AAA (5-7)	TB-AAA (10-12)	TB-AAA (15-17)	TB-BBB (1-3)
Depth Below Grade (ft.)										
SPLP Metals										
Barium	NA	NA	10	0.50	NT	NT	NT	NT	0.35	NT
Lead	NA	NA	0.15	ND<0.013	NT	NT	NT	NT	ND<0.013	NT
Vanadium	NA	NA	0.50	ND<0.05	NT	NT	NT	NT	ND<0.05	NT
Zinc	NA	NA	50	0.20	NT	NT	NT	NT	0.26	NT
Total Metals										
Arsenic	10	10	NA	ND<1.0	ND<1.0	3.4	5.9	4.2	17	ND<1.0
Barium	4,700	140,000	NA	19	NT	NT	NT	NT	34	NT
Cadmium	34	1,000	NA	ND<0.50	NT	NT	NT	NT	1.4	NT
Chromium	100*	100*	NA	3.5	NT	NT	NT	NT	5.8	NT
Copper	2,500	76,000	NA	5.2	NT	NT	NT	NT	40	NT
Lead	500	1,000	NA	43	NT	NT	NT	NT	58	NT
Mercury	20	610	NA	ND<0.20	NT	NT	NT	NT	0.61	NT
Nickel	1,400	7,500	NA	2.4	NT	NT	NT	NT	7.3	NT
Thallium	5.4	160	NA	ND<2.0	NT	NT	NT	NT	5.1	NT
Vanadium	470	14,000	NA	6.4	NT	NT	NT	NT	11	NT
Zinc	20,000	610,000	NA	13	NT	NT	NT	NT	35	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	ND<50	ND<50	ND<50	NT	ND<50	210
RSR Pesticides/Herbicides	NA	NA	NA	NT	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- RSR = Remediation Standard Regulations.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.



**Comparison of Test Boring Soil Sample Analyte Concentrations
 to DEP Remediation Standard Regulations Numerical Criteria
 QE/English Station, Southwest Portion, New Haven, CT
 Sampling Date: February 13, 2002**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial	GB Area	TB-BBB (5-7)	TB-BBB (10-13)	TB-CCC (0-2)	TB-CCC (2-2.5)	TB-CCC (5-7)	TB-CCC (10-13)	TB-DDD (0-2)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	NT	NT	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	NT	0.52	NT	ND<0.20	ND<0.20	0.83
Benzo[b]fluoranthene	1	7.8	1	NT	NT	0.70	NT	ND<0.20	0.21	1.43
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	0.21	NT	ND<0.20	ND<0.20	0.28
Benzo[k]fluoranthene	8.4	78	1	NT	NT	0.35	NT	ND<0.20	ND<0.20	0.69
Benzo[a]pyrene	1	1	1	NT	NT	0.47	NT	ND<0.20	ND<0.20	0.83
Chrysene	84	780	1	NT	NT	0.50	NT	ND<0.20	ND<0.20	0.88
Dibenz[a,h]anthracene	1	1	1	NT	NT	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	NT	NT	0.87	NT	ND<0.20	0.23	1.4
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	NT	ND<0.20	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	ND<0.20	NT	ND<0.20	ND<0.20	0.34
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	NT	ND<0.20	ND<0.20	0.80
Phenanthrene	1,000	2,500	40	NT	NT	0.69	NT	ND<0.20	ND<0.20	0.67
Pyrene	1,000	2,500	40	NT	NT	0.73	NT	ND<0.20	0.31	1.3
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1260	1	10	NA	15	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs										
PCB-1260	NA	NA	0.005	0.00072	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
4-Isopropyltoluene	500	1,000	41.8	ND<0.005	NT	NT	NT	NT	NT	NT



**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Southwest Portion, New Haven, CT
Sampling Date: February 13, 2002**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-BBB (5-7)	TB-BBB (10-13)	TB-CCC (0-2)	TB-CCC (2-2.5)	TB-CCC (5-7)	TB-CCC (10-13)
Depth Below Grade (ft.)										
SPLP Metals										
Barium	NA	NA	10	NT	NT	0.32	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	0.49	NT	NT	NT	NT
Total Metals										
Arsenic	10	10	NA	5.6	5.4	36	21	11	4.5	29
Barium	4,700	140,000	NA	NT	NT	44	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	0.81	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	4.8	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	47	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	57	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	0.84	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	7.3	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	2.5	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	14	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	76	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	1,100	ND<50	ND<50	NT	ND<50	ND<50	ND<50
RSR Pesticides/Herbicides	NA	NA	NA	NT	NT	ND	NT	NT	NT	ND

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- RSR = Remediation Standard Regulations.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.



**Comparison of Test Boring Soil Sample Analyte Concentrations
 to DEP Remediation Standard Regulations Numerical Criteria
 QE/English Station, Southwest Portion, New Haven, CT
 Sampling Date: February 13, 2002**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/Commercial		GB Area	TB-DDD (2-4)	TB-DDD (5-7)	TB-DDD (10-12)	TB-EEE (1-3)	TB-EEE (3-5)	TB-EEE (5-7)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	ND<0.20	0.51	ND<0.20	ND<0.20	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	ND<0.20	1.0	ND<0.20	ND<0.20	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	ND<0.20	2.3	0.43	0.21	ND<0.20	NT	NT
Benzo[b]fluoranthene	1	7.8	1	0.26	2.6	0.52	0.33	ND<0.20	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	0.51	ND<0.20	ND<0.20	ND<0.20	NT	NT
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	1.1	0.26	ND<0.20	ND<0.20	NT	NT
Benzo[a]pyrene	1	1	1	ND<0.20	2.1	0.41	0.22	ND<0.20	NT	NT
Chrysene	84	780	1	ND<0.20	1.9	0.39	ND<0.20	ND<0.20	NT	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	0.32	6.2	0.62	0.34	ND<0.20	NT	NT
Fluorene	1,000	2,500	56	ND<0.20	0.59	ND<0.20	ND<0.20	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	0.64	ND<0.20	ND<0.20	ND<0.20	NT	NT
Naphthalene	1,000	2,500	56	ND<0.20	0.52	ND<0.20	ND<0.20	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	ND<0.20	5.1	0.30	ND<0.20	ND<0.20	NT	NT
Pyrene	1,000	2,500	40	0.31	5.1	0.69	0.34	ND<0.20	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1260	1	10	NA	NT	NT	NT	NT	NT	NT	NT
SPLP PCBs										
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT	NT



**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Southwest Portion, New Haven, CT
Sampling Date: February 13, 2002**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/Commercial		GB Area	TB-DDD (2-4)	TB-DDD (5-7)	TB-DDD (10-12)	TB-EEE (1-3)	TB-EEE (3-5)	TB-EEE (5-7)	TB-EEE (10-12)
Depth Below Grade (ft.)											
SPLP Metals											
Barium	NA	NA	10	0.40	NT	NT	0.46	NT	NT	NT	NT
Lead	NA	NA	0.15	0.02	NT	NT	ND<0.013	NT	NT	NT	NT
Vanadium	NA	NA	0.50	ND<0.05	NT	NT	ND<0.05	NT	NT	NT	NT
Zinc	NA	NA	50	0.18	NT	NT	0.31	NT	NT	NT	NT
Total Metals											
Arsenic	10	10	NA	4.2	12	22	3.5	3.5	3.8	5.8	
Barium	4,700	140,000	NA	35	NT	NT	22	NT	NT	NT	NT
Cadmium	34	1,000	NA	0.97	NT	NT	0.94	NT	NT	NT	NT
Chromium	100*	100*	NA	10	NT	NT	11	NT	NT	NT	NT
Copper	2,500	76,000	NA	15	NT	NT	20	NT	NT	NT	NT
Lead	500	1,000	NA	94	NT	NT	15	NT	NT	NT	NT
Mercury	20	610	NA	0.55	NT	NT	ND<0.20	NT	NT	NT	NT
Nickel	1,400	7,500	NA	6.2	NT	NT	6.8	NT	NT	NT	NT
Thallium	5.4	160	NA	2.8	NT	NT	3.2	NT	NT	NT	NT
Vanadium	470	14,000	NA	16	NT	NT	15	NT	NT	NT	NT
Zinc	20,000	610,000	NA	40	NT	NT	26	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	ND<50	NT	ND<50	ND<50	NT	NT	NT
RSR Pesticides/Herbicides	NA	NA	NA	NT	NT	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- RSR = Remediation Standard Regulations.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.



**Comparison of Test Boring Soil Sample Analyte Concentrations
 to DEP Remediation Standard Regulations Numerical Criteria
 QE/English Station, Southwest Portion, New Haven, CT
 Sampling Date: February 13, 2002**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-FFF (0-2)	TB-FFF (2-4)	TB-FFF (5-7)	TB-FFF (10-12)	TB-GGG (0-1.2)	TB-GGG (2-4)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	ND<0.20	ND<0.20	5.5	2.6	ND<0.20	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	0.37	0.40	ND<0.20	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	ND<0.20	24	2.6	ND<0.20	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	ND<0.20	ND<0.20	34	5.6	0.45	ND<0.20	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	0.24	44	7.3	0.75	0.28	ND<0.20
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	ND<0.20	4.8	1.4	ND<0.20	ND<0.20	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	ND<0.20	12	2.7	0.33	ND<0.20	ND<0.20
Benzo[a]pyrene	1	1	1	ND<0.20	ND<0.20	79	5.4	0.45	ND<0.20	ND<0.20
Chrysene	84	780	1	ND<0.20	ND<0.20	30	4.6	0.46	ND<0.20	ND<0.20
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<0.20	1.6	0.23	ND<0.20	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	0.22	0.27	125	17	0.87	0.29	ND<0.20
Fluorene	1,000	2,500	56	ND<0.20	ND<0.20	5.6	1.8	ND<0.20	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	ND<0.20	5.7	1.5	ND<0.20	ND<0.20	ND<0.20
Naphthalene	1,000	2,500	56	ND<0.20	ND<0.20	0.22	6.5	ND<0.20	ND<0.20	ND<0.20
Phenanthrene	1,000	2,500	40	ND<0.20	ND<0.20	22	12	0.47	ND<0.20	ND<0.20
Pyrene	1,000	2,500	40	0.21	0.25	130	16	0.78	0.30	ND<0.20
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT	NT	NT
SPLP PCBs										
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.005	ND<0.005	NT	NT	NT



**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, Southwest Portion, New Haven, CT
Sampling Date: February 13, 2002**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/Commercial		GB Area	TB-FFF (0-2)	TB-FFF (2-4)	TB-FFF (5-7)	TB-FFF (10-12)	TB-GGG (0-1.2)	TB-GGG (2-4)
Depth Below Grade (ft.)										
SPLP Metals										
Barium	NA	NA	10	NT	0.25	NT	NT	NT	0.37	NT
Lead	NA	NA	0.15	NT	ND<0.013	NT	NT	NT	ND<0.013	NT
Vanadium	NA	NA	0.50	NT	ND<0.05	NT	NT	NT	0.17	NT
Zinc	NA	NA	50	NT	0.16	NT	NT	NT	0.17	NT
Total Metals										
Arsenic	10	10	NA	2.2	1.9	16	6.5	1.8	ND<1.0	ND<1.0
Barium	4,700	140,000	NA	NT	15	NT	NT	NT	22	NT
Cadmium	34	1,000	NA	NT	0.50	NT	NT	NT	0.59	NT
Chromium	100*	100*	NA	NT	4.9	NT	NT	NT	5.2	NT
Copper	2,500	76,000	NA	NT	28	NT	NT	NT	26	NT
Lead	500	1,000	NA	NT	8.7	NT	NT	NT	14	NT
Mercury	20	610	NA	NT	ND<0.20	NT	NT	NT	ND<0.20	NT
Nickel	1,400	7,500	NA	NT	5.3	NT	NT	NT	5.6	NT
Thallium	5.4	160	NA	NT	2.4	NT	NT	NT	ND<2.0	NT
Vanadium	470	14,000	NA	NT	11	NT	NT	NT	27	NT
Zinc	20,000	610,000	NA	NT	16	NT	NT	NT	19	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	ND<50	ND<50	130	ND<50	ND<50	ND<50
RSR Pesticides/Herbicides	NA	NA	NA	NT	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- RSR = Remediation Standard Regulations.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-II (0-2)	TB-II (2-4)	TB-II (5-7)	TB-II (10-12)	TB-JJ (0-2)	TB-JJ (2-4)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	1.1	ND<0.20	0.48	0.21
Acenaphthylene	1,000	2,500	84	0.20	ND<0.20	ND<0.20	0.96	0.23	0.25	ND<0.20
Anthracene	1,000	2,500	400	0.39	ND<0.20	0.70	7.1	0.49	0.51	0.30
Benzo[a]anthracene	1	7.8	1	1.9	0.72	3.3	17	3.2	1.9	1.1
Benzo[b]fluoranthene	1	7.8	1	1.9	0.57	3.0	19	3.8	1.6	0.96
Benzo[g,h,i]perylene	1,000	2,500	42	1.7	ND<0.20	1.6	4.5	1.9	0.94	0.63
Benzo[k]fluoranthene	8.4	78	1	0.74	0.25	1.0	5.5	1.1	0.64	0.34
Benzo[a]pyrene	1	1	1	1.8	0.61	2.3	13	2.6	1.7	0.98
Chrysene	84	780	1	1.6	0.65	3.3	17	3.3	1.4	0.80
Dibenz[a,h]anthracene	1	1	1	0.27	ND<0.20	0.51	1.4	0.52	0.24	ND<0.20
Fluoranthene	1,000	2,500	56	4.4	1.0	8.3	94	8.5	5.5	2.2
Fluorene	1,000	2,500	56	ND<0.20	ND<0.20	0.32	1.1	ND<0.20	0.53	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	1.7	ND<0.20	1.9	6.0	2.2	1.2	0.71
Naphthalene	1,000	2,500	56	ND<0.20	ND<0.20	0.48	4.1	0.38	1.1	0.41
Phenanthrene	1,000	2,500	40	1.7	0.66	3.9	36	3.7	1.7	0.65
Pyrene	1,000	2,500	40	4.0	1.1	7.6	88	7.9	4.3	2.0
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	1	10	NA	NT	NT	ND<0.50	NT	NT	ND<0.50	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.005	NT	NT	ND<0.005	ND<0.005
Naphthalene	1,000	2,500	56	NT	NT	0.025	NT	NT	0.19	0.0061
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.005	NT	NT	ND<0.005	ND<0.005
Toluene	500	1,000	67	NT	NT	ND<0.005	NT	NT	ND<0.005	ND<0.005
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	0.011	NT	NT	ND<0.005	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	0.0068	NT	NT	ND<0.005	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.005	NT	NT	ND<0.005	ND<0.005

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AEI-00T-030a

Table AOC-12.1 Page 1 of 14

Table AOC-12.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-II (0-2)	TB-II (2-4)	TB-II (5-7)	TB-II (10-12)	TB-JJ (0-2)	TB-JJ (2-4)
SPLP Metals										
Arsenic	NA	NA	0.5	NT	ND<0.05	ND<0.05	NT	ND<0.05	NT	NT
Barium	NA	NA	10	NT	0.39	NT	NT	0.33	NT	NT
Zinc	NA	NA	50	NT	0.23	NT	NT	0.13	NT	NT
Total Metals										
Antimony	27	8,200	NA	NT	ND<2.0	NT	NT	ND<2.0	NT	NT
Arsenic	10	10	NA	3.9	2.3	48	15	53	ND<1.0	1.9
Barium	4,700	140,000	NA	NT	24	NT	NT	59	NT	NT
Cadmium	34	1,000	NA	NT	1.2	NT	NT	2.8	NT	NT
Chromium	100*	100*	NA	NT	12	NT	NT	14	NT	NT
Copper	2,500	76,000	NA	NT	54	NT	NT	71	NT	NT
Lead	500	1,000	NA	NT	24	NT	NT	84	NT	NT
Mercury	20	610	NA	NT	ND<0.20	NT	NT	4.8	NT	NT
Nickel	1,400	7,500	NA	NT	8.7	NT	NT	13	NT	NT
Selenium	340	10,000	NA	NT	ND<1.0	NT	NT	2.5	NT	NT
Thallium	5.4	160	NA	NT	5.1	8.0	NT	3.9	NT	NT
Vanadium	470	14,000	NA	NT	33	NT	NT	43	NT	NT
Zinc	20,000	610,000	NA	NT	42	NT	NT	67	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	220	150	250	420	230	100	120

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial	GB Area	TB-JJ (6-7)	TB-KK (0-2)	TB-KK (2-4)	TB-KK (4-6)	TB-KK (6-7)	TB-LL (0-2)	TB-LL (2-4)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	NT	ND<0.20	0.63	ND<0.20	NT	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	NT	ND<0.20	1.8	ND<0.20	NT	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	ND<0.20	4.7	0.25	NT	0.58	0.41
Benzo[b]fluoranthene	1	7.8	1	NT	0.24	5.0	0.20	NT	0.72	0.42
Benzo[g,h,i]perylene	1,000	2,500	42	NT	ND<0.20	2.8	0.23	NT	0.47	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	NT	ND<0.20	1.8	ND<0.20	NT	0.28	ND<0.20
Benzo[a]pyrene	1	1	1	NT	ND<0.20	4.1	0.22	NT	0.57	0.35
Chrysene	84	780	1	NT	ND<0.20	4.0	0.21	NT	0.57	0.31
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	0.61	ND<0.20	NT	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	NT	0.28	19	0.44	NT	1.0	0.61
Fluorene	1,000	2,500	56	NT	ND<0.20	0.70	ND<0.20	NT	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	ND<0.20	2.9	ND<0.20	NT	0.48	ND<0.20
Naphthalene	1,000	2,500	56	NT	ND<0.20	0.34	ND<0.20	NT	ND<0.20	ND<0.20
Phenanthrene	1,000	2,500	40	NT	ND<0.20	9.7	0.29	NT	0.46	0.29
Pyrene	1,000	2,500	40	NT	0.25	16	0.40	NT	0.95	0.57
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	1	10	NA	NT	ND<0.50	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	NT	NT	NT	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	0.0078	NT	NT	NT	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	ND<0.005	NT	NT	NT	ND<0.005	NT
Toluene	500	1,000	67	NT	ND<0.005	NT	NT	NT	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.005	NT	NT	NT	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.005	NT	NT	NT	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	ND<0.005	NT	NT	NT	ND<0.005	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-JJ (6-7)	TB-KK (0-2)	TB-KK (2-4)	TB-KK (4-6)	TB-KK (6-7)	TB-LL (0-2)
SPLP Metals										
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	0.23	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	0.15	NT	NT	NT	NT
Total Metals										
Antimony	27	8,200	NA	NT	NT	3.2	NT	NT	NT	NT
Arsenic	10	10	NA	2.7	3.1	4.7	ND<1.0	3.5	4.8	2.0
Barium	4,700	140,000	NA	NT	NT	40	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	2.8	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	17	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	120	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	45	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	0.89	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	17	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	12	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	34	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	70	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	110	110	ND<50	NT	220	61

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- = Concentration exceeds associated criterion.

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Tab C-12.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-LL (5-7)	TB-LL (10-12)	TB-MM (0-2)	TB-MM (2-4)	TB-MM (5-7)	TB-MM (10-12)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	ND<0.20	0.31	ND<0.20	ND<1.0	ND<1.0	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	0.88	0.23	ND<1.0	ND<1.0	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	1.0	ND<0.20	ND<1.0	ND<1.0	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	0.65	4.4	1.4	2.2	1.5	0.79	0.88
Benzo[b]fluoranthene	1	7.8	1	0.77	4.5	2.0	2.6	3.3	1.1	0.98
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	2.1	1.0	1.2	2.3	0.46	0.64
Benzo[k]fluoranthene	8.4	78	1	0.27	1.7	0.57	1.1	1.3	0.45	0.33
Benzo[a]pyrene	1	1	1	0.47	4.0	1.4	1.8	2.6	0.99	0.80
Chrysene	84	780	1	0.54	4.4	1.4	2.0	1.4	0.77	0.75
Dibenz[a,h]anthracene	1	1	1	ND<0.20	0.56	0.24	ND<1.0	ND<1.0	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	1.3	15	2.2	3.8	1.7	1.1	1.2
Fluorene	1,000	2,500	56	ND<0.20	0.38	ND<0.20	ND<1.0	ND<1.0	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	2.4	1.3	1.1	2.1	0.41	0.63
Naphthalene	1,000	2,500	56	ND<0.20	0.90	0.25	ND<1.0	ND<1.0	ND<0.20	ND<0.20
Phenanthrene	1,000	2,500	40	0.72	2.0	1.1	3.2	ND<1.0	0.64	0.55
Pyrene	1,000	2,500	40	1.2	20	2.3	3.3	1.6	1.4	1.3
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	1	10	NA	NT	NT	NT	ND<0.50	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.005	NT	NT	ND<0.005
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.005	NT	NT	ND<0.005
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.005	NT	NT	ND<0.005
Toluene	500	1,000	67	NT	NT	NT	ND<0.005	NT	NT	ND<0.005
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT	NT	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT	NT	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.005	NT	NT	ND<0.005

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/Commercial		GB Area	TB-LL (5-7)	TB-LL (10-12)	TB-MM (0-2)	TB-MM (2-4)	TB-MM (5-7)	TB-MM (10-12)
Depth Below Grade (ft.)										
SPLP Metals										
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	0.39	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	0.22	NT	NT	NT	NT
Total Metals										
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	NT	NT	NT
Arsenic	10	10	NA	3.6	8.5	25	1.3	2.1	1.6	3.6
Barium	4,700	140,000	NA	NT	NT	60	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	1.8	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	11	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	69	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	72	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	3.5	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	11	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	1.3	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	4.6	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	32	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	69	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	500	73	360	280	610	220

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- = Concentration exceeds associated criterion.

Table AOC-12.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial	GB Area	TB-NN (2-4)	TB-NN (4-6)	TB-NN (6-7)	TB-OO (0-2)	TB-OO (2-4)	TB-OO (6-7.3)	TB-PP (0-2)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	ND<0.20	NT	NT	1.0	ND<0.20	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	NT	NT	2.7	ND<0.20	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	0.67	NT	NT	12	1.1	NT	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	0.90	NT	NT	19	1.3	NT	0.25
Benzo[g,h,i]perylene	1,000	2,500	42	0.31	NT	NT	3.4	0.58	NT	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	0.35	NT	NT	5.5	0.51	NT	ND<0.20
Benzo[a]pyrene	1	1	1	0.69	NT	NT	12	1.1	NT	ND<0.20
Chrysene	84	780	1	0.59	NT	NT	12	0.91	NT	ND<0.20
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	NT	1.1	ND<0.20	NT	ND<0.20
Fluoranthene	1,000	2,500	56	1.1	NT	NT	37	1.7	NT	0.29
Fluorene	1,000	2,500	56	ND<0.20	NT	NT	0.88	ND<0.20	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.39	NT	NT	4.2	0.48	NT	ND<0.20
Naphthalene	1,000	2,500	56	ND<0.20	NT	NT	0.32	ND<0.20	NT	ND<0.20
Phenanthrene	1,000	2,500	40	0.57	NT	NT	19	1.0	NT	ND<0.20
Pyrene	1,000	2,500	40	0.97	NT	NT	31	1.7	NT	0.26
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	1	10	NA	NT	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	ND<0.005	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.005	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.005	NT	NT
Toluene	500	1,000	67	NT	NT	NT	NT	ND<0.005	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.005	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.005	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	ND<0.005	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial		GB Area	TB-NN (2-4)	TB-NN (4-6)	TB-NN (6-7)	TB-OO (0-2)	TB-OO (2-4)	TB-OO (6-7.3)	TB-PP (0-2)
Depth Below Grade (ft.)											
SPLP Metals											
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT	NT	NT
Total Metals											
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	4.5	2.0	3.2	1.4	3.2	1.6	ND<1.0	
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT	NT	
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT	NT	
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT	NT	
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT	NT	
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT	NT	
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT	NT	
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT	NT	
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT	NT	
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT	NT	
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT	NT	
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	NT	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	70	65	NT	910	210	NT	93	

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-PP (2-4)	TB-PP (5-6.5)	TB-QQ (0-2)	TB-QQ (5-7)	TB-QQ (10-12)	TB-RR (0-2)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	0.65	NT	ND<1.00	NT	ND<1.0	ND<0.20	ND<1.0
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	ND<1.00	NT	1.2	ND<0.20	1.2
Anthracene	1,000	2,500	400	1.5	NT	ND<1.00	NT	1.0	ND<0.20	ND<1.0
Benzo[a]anthracene	1	7.8	1	6.4	NT	ND<1.00	NT	3.6	0.64	1.7
Benzo[b]fluoranthene	1	7.8	1	7.9	NT	ND<1.00	NT	6.0	1.2	4.0
Benzo[g,h,i]perylene	1,000	2,500	42	3.9	NT	ND<1.00	NT	1.8	0.30	1.8
Benzo[k]fluoranthene	8.4	78	1	2.7	NT	ND<1.00	NT	2.5	0.51	1.4
Benzo[a]pyrene	1	1	1	6.5	NT	ND<1.00	NT	3.9	0.68	2.3
Chrysene	84	780	1	5.9	NT	ND<1.00	NT	3.4	0.62	1.5
Dibenz[a,h]anthracene	1	1	1	0.96	NT	ND<1.00	NT	ND<1.0	ND<0.20	ND<1.0
Fluoranthene	1,000	2,500	56	27	NT	ND<1.00	NT	7.5	1.0	1.5
Fluorene	1,000	2,500	56	0.51	NT	ND<1.00	NT	ND<1.0	ND<0.20	ND<1.0
Indeno[1,2,3-cd]pyrene	1	7.8	1	5.0	NT	ND<1.00	NT	1.9	0.37	1.3
Naphthalene	1,000	2,500	56	ND<0.20	NT	ND<1.00	NT	ND<1.0	ND<0.20	ND<1.0
Phenanthrene	1,000	2,500	40	11	NT	ND<1.00	NT	5.2	0.44	ND<1.0
Pyrene	1,000	2,500	40	25	NT	ND<1.00	NT	6.0	0.93	1.8
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	1	10	NA	NT	NT	ND<0.50	NT	ND<0.50	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Ethylbenzene	500	1,000	10.1	ND<0.005	NT	NT	ND<0.005	0.0077	NT	NT
Naphthalene	1,000	2,500	56	0.039	NT	NT	0.073	0.043	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.005	NT	NT	ND<0.005	0.0079	NT	NT
Toluene	500	1,000	67	ND<0.005	NT	NT	ND<0.005	0.0066	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	NT	NT	ND<0.005	0.0064	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	NT	NT	ND<0.005	0.015	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.005	NT	NT	ND<0.005	0.013	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)							
	Residential	Industrial/ Commercial		GB Area	TB-PP (2-4)	TB-PP (5-6.5)	TB-QQ (0-2)	TB-QQ (5-7)	TB-QQ (10-12)	TB-RR (0-2)	TB-RR (2-4)
Depth Below Grade (ft.)											
SPLP Metals											
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	ND<0.05	NT	NT	
Barium	NA	NA	10	NT	NT	0.37	NT	NT	NT	NT	
Zinc	NA	NA	50	NT	NT	0.23	NT	NT	NT	NT	
Total Metals											
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	NT	NT	NT	
Arsenic	10	10	NA	ND<1.0	ND<1.0	ND<1.0	1.3	83	4.7	1.9	
Barium	4,700	140,000	NA	NT	NT	21	NT	NT	NT	NT	
Cadmium	34	1,000	NA	NT	NT	1.2	NT	NT	NT	NT	
Chromium	100*	100*	NA	NT	NT	8.7	NT	NT	NT	NT	
Copper	2,500	76,000	NA	NT	NT	57	NT	NT	NT	NT	
Lead	500	1,000	NA	NT	NT	9.7	NT	NT	NT	NT	
Mercury	20	610	NA	NT	NT	ND<0.20	NT	NT	NT	NT	
Nickel	1,400	7,500	NA	NT	NT	11	NT	NT	NT	NT	
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT	NT	NT	NT	
Thallium	5.4	160	NA	NT	NT	5.8	NT	NT	NT	NT	
Vanadium	470	14,000	NA	NT	NT	56	NT	NT	NT	NT	
Zinc	20,000	610,000	NA	NT	NT	22	NT	NT	NT	NT	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	230	NT	840	NT	520	100	NT	

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
- Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table C-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial	GB Area	TB-SS (2-3)	TB-TT (1-3)	TB-UU (0-2)	TB-UU (2-4)	TB-UU (4-6)	TB-WV (0-2)	TB-WV (2-4)
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	ND<0.20	ND<1.0	ND<0.20	ND<1.0	NT	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<1.0	ND<0.20	2.3	NT	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	ND<1.0	0.34	3.0	NT	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	ND<0.20	ND<1.0	2.7	22	NT	0.36	0.40
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	1.2	4.5	33	NT	0.56	0.62
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	ND<1.0	1.4	8.4	NT	ND<0.20	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	ND<1.0	1.58	15	NT	0.25	0.27
Benzo[a]pyrene	1	1	1	ND<0.20	1.1	3.3	24	NT	0.40	0.43
Chrysene	84	780	1	ND<0.20	ND<1.0	2.2	17	NT	0.32	0.39
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<1.0	0.40	2.3	NT	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	ND<0.20	1.3	4.8	43	NT	0.60	0.67
Fluorene	1,000	2,500	56	ND<0.20	ND<1.0	ND<0.20	ND<1.0	NT	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	1.1	1.5	9.5	NT	0.20	ND<0.20
Naphthalene	1,000	2,500	56	ND<0.20	ND<1.0	ND<0.20	1.0	NT	ND<0.20	ND<0.20
Phenanthrene	1,000	2,500	40	ND<0.20	ND<1.0	1.5	19	NT	0.35	0.34
Pyrene	1,000	2,500	40	ND<0.20	1.2	4.2	43	NT	0.56	0.59
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	1	10	NA	NT	NT	NT	ND<0.50	NT	NT	ND<0.50
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Ethylbenzene	500	1,000	10.1	ND<0.005	NT	NT	ND<0.005	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.005	NT	NT	0.11	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.005	NT	NT	ND<0.005	NT	NT	NT
Toluene	500	1,000	67	ND<0.005	NT	NT	ND<0.005	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	NT	NT	ND<0.005	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	NT	NT	ND<0.005	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.005	NT	NT	ND<0.005	NT	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.1 Page 11 of 14

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial	GB Area	TB-SS (2-3)	TB-TT (1-3)	TB-UU (0-2)	TB-UU (2-4)	TB-UU (4-6)	TB-VV (0-2)	TB-VV (2-4)
Depth Below Grade (ft.)										
SPLP Metals										
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	NT	NT	NT	ND<0.05
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	0.39
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT	0.27
Total Metals										
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT	ND<2.0
Arsenic	10	10	NA	14	9.0	1.7	2.0	1.9	1.4	1.0
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT	31
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT	0.94
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT	8.1
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT	26
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT	19
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT	ND<0.20
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT	8.6
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT	ND<1.0
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT	3.4
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT	28
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	32
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	85	160	170	1,200	1,100	NT	130

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)			
	Residential	Industrial/ Commercial	GB Area	TB-WV (4-6)	TB-WW (0-2)	TB-WW (2-4)	TB-WW (5-7)
Depth Below Grade (ft.)							
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)							
Acenaphthene	1,000	2,500	84	12	ND<0.20	ND<1.0	ND<0.20
Acenaphthylene	1,000	2,500	84	28	1.5	ND<1.0	ND<0.20
Anthracene	1,000	2,500	400	63	4.7	1.0	ND<0.20
Benzo[a]anthracene	1	7.8	1	64	9.5	3.6	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	71	12	4.4	ND<0.20
Benzo[g,h,i]perylene	1,000	2,500	42	13	4.9	3.4	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	26	3.7	1.8	ND<0.20
Benzo[a]pyrene	1	1	1	57	9.8	3.8	ND<0.20
Chrysene	84	780	1	58	8.9	2.8	ND<0.20
Dibenz[a,h]anthracene	1	1	1	4.5	0.96	ND<1.0	ND<0.20
Fluoranthene	1,000	2,500	56	220	38	7.4	ND<0.20
Fluorene	1,000	2,500	56	51	1.1	ND<1.0	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	15	5.6	3.2	ND<0.20
Naphthalene	1,000	2,500	56	1.7	0.62	ND<1.0	ND<0.20
Phenanthrene	1,000	2,500	40	360	32	4.7	ND<0.20
Pyrene	1,000	2,500	40	210	37	6.2	ND<0.20
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	1	10	NA	ND<0.50	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)							
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT
Toluene	500	1,000	67	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT
Sampling Date: February 8, 2002

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)			
	Residential	Industrial/ Commercial	GB Area	TB-VV (4-6)	TB-WW (0-2)	TB-WW (2-4)	TB-WW (5-7)
Depth Below Grade (ft.)							
SPLP Metals							
Arsenic	NA	NA	0.5	NT	NT	0.50	NT
Barium	NA	NA	10	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT
Total Metals							
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT
Arsenic	10	10	NA	7.6	ND<1.0	22	3.1
Barium	4,700	140,000	NA	NT	NT	43	NT
Cadmium	34	1,000	NA	NT	NT	1.4	NT
Chromium	100*	100*	NA	NT	NT	12	NT
Copper	2,500	76,000	NA	NT	NT	100	NT
Lead	500	1,000	NA	NT	NT	37	NT
Mercury	20	610	NA	NT	NT	1.1	NT
Nickel	1,400	7,500	NA	NT	NT	12	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT
Thallium	5.4	160	NA	NT	NT	5.3	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	62	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	820	150	150	160

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-JJ (2-4)	TB-KK (2-4)	TB-OO (0-2)	TB-RR (2-4)	TB-VV (5-5.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/4/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Isopropylbenzene	500	1,000	132	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Naphthalene	1,000	2,500	56	NT	ND<0.005	ND<0.005	NT	3.0	ND<0.005
n-Propylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Tetrachloroethene	12	110	1	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Toluene	500	1,000	67	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Trichloroethene	56	520	1.0	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.005	ND<0.005	NT	0.018	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.005	ND<0.005	NT	0.014	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-JJ (2-4)	TB-KK (2-4)	TB-OO (0-2)	TB-RR (2-4)	TB-VV (5-5.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	ND<5.0	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	ND<0.006	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	NT	NT	0.32	NT	NT	NT
Copper	NA	NA	13	NT	NT	ND<0.04	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	ND<0.002	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	ND<0.05	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	ND<0.01	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	NT	NT	NT
Zinc	NA	NA	50	NT	NT	0.30	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	NT	NT
Arsenic	10	10	NA	NT	NT	2.2	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	46	NT	NT	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	1.1	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	8.7	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	43	NT	NT	NT
Lead	500	1,000	NA	NT	NT	28	NT	NT	NT
Mercury	20	610	NA	NT	NT	ND<0.20	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	8.6	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial		GB Area	TB-JJ	TB-KK	TB-OO	TB-RR	TB-VV
Depth Below Grade (ft.)				(2-4)	(2-4)	(0-2)	(2-4)	(5-5.5)	(26.5-27)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/4/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	ND<2.0	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	6.3	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	31	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	53	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	1,300

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-HHH (0.0-0.3)	TB-HHH (1.3-2.3)	TB-HHH (2.3-4.3)	TB-HHH (4.3-6.3)	TB-III (0.0-0.3)	TB-III (1-3)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	ND<0.20	ND<0.20	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	ND<0.20	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	ND<0.20	ND<0.20	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	0.26	0.57	NT	NT	0.49
Benzo[a]pyrene	1	1	1	NT	0.32	0.65	NT	NT	0.49
Benzo[b]fluoranthene	1	7.8	1	NT	0.47	0.62	NT	NT	0.47
Benzo[g,h,i]perylene	1,000	2,500	42	NT	ND<0.20	1.2	NT	NT	0.75
Benzo[k]fluoranthene	8.4	78	1	NT	ND<0.20	0.23	NT	NT	ND<0.20
Chrysene	84	780	1	NT	0.30	0.55	NT	NT	0.49
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	0.23	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	0.39	0.90	NT	NT	0.83
Fluorene	1,000	2,500	56	NT	ND<0.20	ND<0.20	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	ND<0.20	0.99	NT	NT	0.82
Naphthalene	1,000	2,500	56	NT	ND<0.20	ND<0.20	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	0.21	0.39	NT	NT	0.60
Pyrene	1,000	2,500	40	NT	0.39	0.84	NT	NT	0.68
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
Isopropylbenzene	500	1,000	132	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
Naphthalene	1,000	2,500	56	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
n-Propylbenzene	500	1,000	14	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
Tetrachloroethene	12	110	1	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
Toluene	500	1,000	67	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
Trichloroethene	56	520	1.0	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	ND<0.005	0.032	ND<0.005	NT	NT	0.046
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005
Xylenes (total)	500	1,000	19.5	ND<0.005	ND<0.005	ND<0.005	NT	NT	ND<0.005

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-HHH (0.0-0.3)	TB-HHH (1.3-2.3)	TB-HHH (2.3-4.3)	TB-HHH (4.3-6.3)	TB-III (0.0-0.3)
Depth Below Grade (ft.)				(0.0-0.3)	(1.3-2.3)	(2.3-4.3)	(4.3-6.3)	(0.0-0.3)	(1-3)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	ND<0.006	NT	NT	NT	0.010
Arsenic	NA	NA	0.5	NT	ND<0.05	NT	NT	NT	ND<0.05
Barium	NA	NA	10	NT	0.17	NT	NT	NT	0.52
Copper	NA	NA	13	NT	ND<0.04	NT	NT	NT	0.062
Lead	NA	NA	0.15	NT	ND<0.013	NT	NT	NT	0.068
Mercury	NA	NA	0.02	NT	ND<0.002	NT	NT	NT	ND<0.002
Nickel	NA	NA	1.0	NT	ND<0.05	NT	NT	NT	ND<0.05
Selenium	NA	NA	0.50	NT	ND<0.01	NT	NT	NT	ND<0.01
Thallium	NA	NA	0.05	NT	ND<0.005	NT	NT	NT	0.005
Vanadium	NA	NA	0.50	NT	ND<0.05	NT	NT	NT	ND<0.05
Zinc	NA	NA	50	NT	0.14	NT	NT	NT	0.36
Total Metals									
Antimony	27	8,200	NA	NT	ND<2.0	NT	NT	NT	2.2
Arsenic	10	10	NA	NT	7.8	NT	NT	NT	70
Barium	4,700	140,000	NA	NT	35	NT	NT	NT	46
Beryllium	2	2	NA	NT	ND<1.0	NT	NT	NT	ND<1.0
Cadmium	34	1,000	NA	NT	1.1	NT	NT	NT	2.5
Chromium	100*	100*	NA	NT	6.7	NT	NT	NT	6.3
Copper	2,500	76,000	NA	NT	45	NT	NT	NT	220
Lead	500	1,000	NA	NT	38	NT	NT	NT	140
Mercury	20	610	NA	NT	ND<0.20	NT	NT	NT	2.4
Nickel	1,400	7,500	NA	NT	13	NT	NT	NT	11
Selenium	340	10,000	NA	NT	ND<1.0	NT	NT	NT	2.5

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-HHH (0.0-0.3)	TB-HHH (1.3-2.3)	TB-HHH (2.3-4.3)	TB-HHH (4.3-6.3)	TB-III (0.0-0.3)	TB-III (1-3)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	ND<2.0	NT	NT	NT	ND<2.0
Thallium	5.4	160	NA	NT	6.6	NT	NT	NT	14
Vanadium	470	14,000	NA	NT	18	NT	NT	NT	17
Zinc	20,000	610,000	NA	NT	40	NT	NT	NT	220
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	ND<50	ND<50	NT	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Tab C-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-III (3.5-4.5)	TB-III (5-7)	TB-III (10-12)	TB-III (20-22)	TB-JJJ (0.0-0.3)
Depth Below Grade (ft.)				(3.5-4.5)	(5-7)	(10-12)	(20-22)	(0.0-0.3)	(1-3)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	ND<0.20	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	ND<0.20	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	ND<0.20	NT	ND<0.20	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	0.37	NT	0.90	ND<0.20	NT	NT
Benzo[a]pyrene	1	1	1	0.45	NT	0.90	ND<0.20	NT	NT
Benzo[b]fluoranthene	1	7.8	1	0.30	NT	0.72	ND<0.20	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.85	NT	1.2	ND<0.20	NT	NT
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	ND<0.20	ND<0.20	NT	NT
Chrysene	84	780	1	0.35	NT	0.68	ND<0.20	NT	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	0.23	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	0.59	NT	1.6	ND<0.20	NT	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	ND<0.20	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.67	NT	1.2	ND<0.20	NT	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	ND<0.20	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	0.29	NT	0.47	ND<0.20	NT	NT
Pyrene	1,000	2,500	40	0.55	NT	1.4	ND<0.20	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	ND<0.005	NT	0.056	ND<0.005
Isopropylbenzene	500	1,000	132	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Naphthalene	1,000	2,500	56	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
n-Propylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Tetrachloroethene	12	110	1	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Toluene	500	1,000	67	NT	ND<0.005	ND<0.005	NT	0.082	ND<0.005
Trichloroethene	56	520	1.0	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	ND<0.005	NT	ND<0.005	0.018
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	ND<0.005	ND<0.005	NT	0.337	ND<0.005

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial	GB Area	TB-III (3.5-4.5)	TB-III (5-7)	TB-III (10-12)	TB-III (20-22)	TB-JJJ (0.0-0.3)	TB-JJJ (1-3)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	ND<0.006	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	NT	NT	NT
Barium	NA	NA	10	0.39	NT	NT	NT	NT	NT
Copper	NA	NA	13	ND<0.04	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	ND<0.013	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	ND<0.002	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	ND<0.05	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	ND<0.01	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	ND<0.005	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	ND<0.05	NT	NT	NT	NT	NT
Zinc	NA	NA	50	0.18	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	3.2	NT	NT	NT	NT	NT
Arsenic	10	10	NA	35	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	34	NT	NT	NT	NT	NT
Beryllium	2	2	NA	ND<1.0	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	1.9	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	5.0	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	65	NT	NT	NT	NT	NT
Lead	500	1,000	NA	320	NT	NT	NT	NT	NT
Mercury	20	610	NA	0.57	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	5.6	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	ND<1.0	NT	NT	NT	NT	NT


Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-III (3.5-4.5)	TB-III (5-7)	TB-III (10-12)	TB-III (20-22)	TB-JJJ (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	ND<2.0	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	12	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	13	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	50	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	ND<50	ND<50	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-JJJ (5-7)	TB-KKK (0.0-0.3)	TB-KKK (1-3)	TB-KKK (3-5)	TB-KKK (5-7)	TB-LLL (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	ND<0.20	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	0.22	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	ND<0.20	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	ND<0.20	NT	NT	NT
Chrysene	84	780	1	NT	NT	0.34	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	ND<0.20	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	ND<0.20	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	0.20	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	ND<0.20	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	ND<0.25	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	ND<0.005	ND<0.25	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.005	ND<0.25	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.005	ND<0.25	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	ND<0.005	ND<0.25	NT	NT	NT
Tetrachloroethene	12	110	1	NT	ND<0.005	ND<0.25	NT	NT	NT
Toluene	500	1,000	67	NT	ND<0.005	ND<0.25	NT	NT	NT
Trichloroethene	56	520	1.0	NT	ND<0.005	ND<0.25	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	ND<0.25	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.005	ND<0.25	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.005	ND<0.25	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	ND<0.005	ND<0.25	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial		GB Area	TB-JJJ	TB-KKK	TB-KKK	TB-KKK	TB-KKK
Depth Below Grade (ft.)				(5-7)	(0.0-0.3)	(1-3)	(3-5)	(5-7)	(0.0-0.3)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	ND<0.006	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	NT	NT	0.13	NT	NT	NT
Copper	NA	NA	13	NT	NT	ND<0.04	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	ND<0.002	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	ND<0.05	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	ND<0.01	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	NT	NT	NT
Zinc	NA	NA	50	NT	NT	0.12	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	NT	NT
Arsenic	10	10	NA	NT	NT	14	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	30	NT	NT	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	2.2	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	5.6	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	25	NT	NT	NT
Lead	500	1,000	NA	NT	NT	18	NT	NT	NT
Mercury	20	610	NA	NT	NT	ND<0.20	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	16	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-JJJ	TB-KKK	TB-KKK	TB-KKK	TB-KKK	TB-LLL
Depth Below Grade (ft.)				(5-7)	(0.0-0.3)	(1-3)	(3-5)	(5-7)	(0.0-0.3)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	ND<2.0	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	12	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	15	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	12	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT


Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-LLL (1-3)	TB-LLL (5-7)	TB-MMM (0.0-0.3)	TB-MMM (0.3-1.3)	TB-MMM (2-4)	TB-NNN (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	0.30	NT	NT	ND<0.20	ND<0.20	NT
Benzo[a]pyrene	1	1	1	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Benzo[b]fluoranthene	1	7.8	1	0.20	NT	NT	ND<0.20	ND<0.20	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.20	NT	NT	ND<0.20	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Chrysene	84	780	1	0.37	NT	NT	ND<0.20	ND<0.20	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Fluoranthene	1,000	2,500	56	0.26	NT	NT	ND<0.20	ND<0.20	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Phenanthrene	1,000	2,500	40	0.34	NT	NT	ND<0.20	ND<0.20	NT
Pyrene	1,000	2,500	40	0.21	NT	NT	ND<0.20	ND<0.20	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
Isopropylbenzene	500	1,000	132	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
Naphthalene	1,000	2,500	56	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
n-Propylbenzene	500	1,000	14	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
Tetrachloroethene	12	110	1	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
Toluene	500	1,000	67	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
Trichloroethene	56	520	1.0	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT
Xylenes (total)	500	1,000	19.5	ND<0.25	NT	NT	ND<0.005	ND<0.25	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-LLL (1-3)	TB-LLL (5-7)	TB-MMM (0.0-0.3)	TB-MMM (0.3-1.3)	TB-MMM (2-4)
Depth Below Grade (ft.)				(1-3)	(5-7)	(0.0-0.3)	(0.3-1.3)	(2-4)	(0.0-0.3)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	ND<0.006	NT	NT	ND<0.006	ND<0.006	NT
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	ND<0.05	ND<0.05	NT
Barium	NA	NA	10	0.52	NT	NT	0.16	0.19	NT
Copper	NA	NA	13	ND<0.04	NT	NT	ND<0.04	ND<0.04	NT
Lead	NA	NA	0.15	0.019	NT	NT	ND<0.013	ND<0.013	NT
Mercury	NA	NA	0.02	ND<0.002	NT	NT	ND<0.002	ND<0.002	NT
Nickel	NA	NA	1.0	ND<0.05	NT	NT	ND<0.05	0.16	NT
Selenium	NA	NA	0.50	ND<0.01	NT	NT	ND<0.01	ND<0.01	NT
Thallium	NA	NA	0.05	ND<0.005	NT	NT	ND<0.005	ND<0.005	NT
Vanadium	NA	NA	0.50	ND<0.05	NT	NT	ND<0.05	ND<0.05	NT
Zinc	NA	NA	50	0.21	NT	NT	0.12	0.29	NT
Total Metals									
Antimony	27	8,200	NA	ND<2.0	NT	NT	ND<2.0	ND<2.0	NT
Arsenic	10	10	NA	14	NT	NT	ND<1.0	9.4	NT
Barium	4,700	140,000	NA	40	NT	NT	25	24	NT
Beryllium	2	2	NA	ND<1.0	NT	NT	ND<1.0	ND<1.0	NT
Cadmium	34	1,000	NA	1.9	NT	NT	1.3	3.2	NT
Chromium	100*	100*	NA	11	NT	NT	8.2	5.9	NT
Copper	2,500	76,000	NA	45	NT	NT	48	27	NT
Lead	500	1,000	NA	31	NT	NT	5.7	24	NT
Mercury	20	610	NA	0.22	NT	NT	ND<0.20	ND<0.20	NT
Nickel	1,400	7,500	NA	13	NT	NT	11	17	NT
Selenium	340	10,000	NA	ND<1.0	NT	NT	ND<1.0	ND<1.0	NT

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AEI-00T-030a


Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial		GB Area	TB-LLL (1-3)	TB-LLL (5-7)	TB-MMM (0.0-0.3)	TB-MMM (0.3-1.3)	TB-MMM (2-4)
Depth Below Grade (ft.)				(1-3)	(5-7)	(0.0-0.3)	(0.3-1.3)	(2-4)	(0.0-0.3)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	ND<2.0	NT	NT	ND<2.0	ND<2.0	NT
Thallium	5.4	160	NA	9.1	NT	NT	7.9	17	NT
Vanadium	470	14,000	NA	23	NT	NT	52	12	NT
Zinc	20,000	610,000	NA	34	NT	NT	24	15	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	NT	1,100	ND<50	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-NNN (0.3-2.3) 4/1/2002	TB-NNN (2.3-4.3) 4/1/2002	TB-NNN (4.3-6.3) 4/1/2002	TB-000 (0.0-0.3) 4/1/2002	TB-000 (0.3-1.3) 4/1/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	ND<0.20	NT	NT	NT	0.69
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	NT	NT	NT	0.30
Anthracene	1,000	2,500	400	ND<0.20	ND<0.20	NT	NT	NT	6.8
Benzo[a]anthracene	1	7.8	1	ND<0.20	ND<0.20	NT	NT	NT	34
Benzo[a]pyrene	1	1	1	ND<0.20	ND<0.20	NT	NT	NT	6.0
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	ND<0.20	NT	NT	NT	45
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	ND<0.20	NT	NT	NT	20
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	ND<0.20	NT	NT	NT	6.0
Chrysene	84	780	1	ND<0.20	ND<0.20	NT	NT	NT	42
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<0.20	NT	NT	NT	7.8
Fluoranthene	1,000	2,500	56	ND<0.20	ND<0.20	NT	NT	NT	2.8
Fluorene	1,000	2,500	56	ND<0.20	ND<0.20	NT	NT	NT	0.60
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	ND<0.20	NT	NT	NT	25
Naphthalene	1,000	2,500	56	ND<0.20	ND<0.20	NT	NT	NT	0.51
Phenanthrene	1,000	2,500	40	ND<0.20	ND<0.20	NT	NT	NT	4.7
Pyrene	1,000	2,500	40	ND<0.20	ND<0.20	NT	NT	NT	1.8
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.005	ND<0.005	NT	0.019	ND<0.005	ND<0.25
Isopropylbenzene	500	1,000	132	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.25
4-Isopropyltoluene	500	1,000	41.8	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.25
Naphthalene	1,000	2,500	56	ND<0.005	ND<0.005	NT	0.016	ND<0.005	ND<0.25
n-Propylbenzene	500	1,000	14	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.25
Tetrachloroethene	12	110	1	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.25
Toluene	500	1,000	67	ND<0.005	ND<0.005	NT	0.044	ND<0.005	ND<0.25
Trichloroethene	56	520	1.0	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.25
1,1,1-Trichloroethane	500	1,000	40	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.25
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.25
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	ND<0.005	NT	ND<0.005	ND<0.005	ND<0.25
Xylenes (total)	500	1,000	19.5	ND<0.005	ND<0.005	NT	0.118	ND<0.005	ND<0.25

Table AOC-12.2

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-NNN (0.3-2.3)	TB-NNN (2.3-4.3)	TB-NNN (4.3-6.3)	TB-OOO (0.0-0.3)	TB-OOO (0.3-1.3)	TB-OOO (3-3.5)
Depth Below Grade (ft.)										
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT	NT
SPLP Metals										
Antimony	NA	NA	0.06	ND<0.006	ND<0.006	NT	NT	NT	NT	0.009
Arsenic	NA	NA	0.5	ND<0.05	ND<0.05	NT	NT	NT	NT	ND<0.05
Barium	NA	NA	10	0.32	0.38	NT	NT	NT	NT	0.41
Copper	NA	NA	13	ND<0.04	ND<0.04	NT	NT	NT	NT	ND<0.04
Lead	NA	NA	0.15	ND<0.013	ND<0.013	NT	NT	NT	NT	0.032
Mercury	NA	NA	0.02	ND<0.002	ND<0.002	NT	NT	NT	NT	ND<0.002
Nickel	NA	NA	1.0	ND<0.05	ND<0.05	NT	NT	NT	NT	ND<0.05
Selenium	NA	NA	0.50	ND<0.01	ND<0.01	NT	NT	NT	NT	ND<0.01
Thallium	NA	NA	0.05	ND<0.005	ND<0.005	NT	NT	NT	NT	ND<0.005
Vanadium	NA	NA	0.50	ND<0.05	ND<0.05	NT	NT	NT	NT	ND<0.05
Zinc	NA	NA	50	0.32	0.30	NT	NT	NT	NT	0.20
Total Metals										
Antimony	27	8,200	NA	ND<2.0	11	NT	NT	NT	NT	ND<2.0
Arsenic	10	10	NA	ND<1.0	2.3	NT	NT	NT	NT	60
Barium	4,700	140,000	NA	51	230	NT	NT	NT	NT	120
Beryllium	2	2	NA	ND<1.0	7.4	NT	NT	NT	NT	ND<1.0
Cadmium	34	1,000	NA	1.0	5.4	NT	NT	NT	NT	2.9
Chromium	100*	100*	NA	9.6	120 ⁽³⁾	NT	NT	NT	NT	13
Copper	2,500	76,000	NA	15	1,400	NT	NT	NT	NT	110
Lead	500	1,000	NA	9.9	1,000	NT	NT	NT	NT	320
Mercury	20	610	NA	ND<0.20	ND<0.20	NT	NT	NT	NT	1.8
Nickel	1,400	7,500	NA	7.5	500	NT	NT	NT	NT	14
Selenium	340	10,000	NA	ND<1.0	1.4	NT	NT	NT	NT	1.9

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-NNN	TB-NNN	TB-NNN	TB-000	TB-000	TB-000
Depth Below Grade (ft.)				(0.3-2.3)	(2.3-4.3)	(4.3-6.3)	(0.0-0.3)	(0.3-1.3)	(3-3.5)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	ND<2.0	ND<2.0	NT	NT	NT	ND<2.0
Thallium	5.4	160	NA	5.9	29	NT	NT	NT	8.8
Vanadium	470	14,000	NA	22	25	NT	NT	NT	15
Zinc	20,000	610,000	NA	20	2,700	NT	NT	NT	170
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	ND<50	NT	NT	NT	510

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-000	TB-PPP	TB-PPP	TB-PPP	TB-PPP
Depth Below Grade (ft.)				(4-6)	(0-0.3)	(0.3-2.3)	(2.5-3)	(3.5-4)	(4.3-6.3)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	0.25	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	0.23	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	2.0	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	2.8	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	3.2	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	2.5	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	1.2	NT	NT	NT
Chrysene	84	780	1	NT	NT	1.8	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	0.50	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	3.0	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	2.8	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	1.1	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	2.9	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.25	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.25	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.25	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.25	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.25	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	ND<0.25	NT	NT	NT
Toluene	500	1,000	67	NT	NT	ND<0.25	NT	NT	NT
Trichloroethene	56	520	1.0	NT	NT	ND<0.25	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.25	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.25	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.25	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.25	NT	NT	NT

Table AOC-12.2

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-000 (4-6)	TB-PPP (0-0.3)	TB-PPP (0.3-2.3)	TB-PPP (2.5-3)	TB-PPP (3.5-4)	TB-PPP (4.3-6.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	ND<0.006	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	NT	NT	0.25	NT	NT	NT
Copper	NA	NA	13	NT	NT	ND<0.04	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	ND<0.002	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	ND<0.05	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	ND<0.01	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	NT	NT	NT
Zinc	NA	NA	50	NT	NT	0.27	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	NT	NT
Arsenic	10	10	NA	NT	NT	6.8	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	76	NT	NT	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	1.4	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	16	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	55	NT	NT	NT
Lead	500	1,000	NA	NT	NT	51	NT	NT	NT
Mercury	20	610	NA	NT	NT	0.23	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	12	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-000	TB-PPP	TB-PPP	TB-PPP	TB-PPP
Depth Below Grade (ft.)				(4-6)	(0-0.3)	(0.3-2.3)	(2.5-3)	(3.5-4)	(4.3-6.3)
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/1/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	ND<2.0	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	7.9	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	41	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	68	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-QQQ (0-0.3)	TB-QQQ (0.3-2.3)	TB-QQQ (2.3-4.3)	TB-QQQ (4.3-5)	TB-RRR (0.0-0.3)	TB-RRR (0.3-0.6)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/2/2002	4/2/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.25	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	ND<0.25	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.25	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.25	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	ND<0.25	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	ND<0.25	NT	NT	NT	NT
Toluene	500	1,000	67	NT	ND<0.25	NT	NT	NT	NT
Trichloroethene	56	520	1.0	NT	ND<0.25	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.25	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.25	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.25	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	ND<0.25	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-QQQ (0-0.3)	TB-QQQ (0.3-2.3)	TB-QQQ (2.3-4.3)	TB-QQQ (4.3-5)	TB-RRR (0.0-0.3)	TB-RRR (0.3-0.6)
Depth Below Grade (ft.)									
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/2/2002	4/2/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-QQQ (0-0.3)	TB-QQQ (0.3-2.3)	TB-QQQ (2.3-4.3)	TB-QQQ (4.3-5)	TB-RRR (0.0-0.3)	TB-RRR (0.3-0.6)
Depth Below Grade (ft.)										
Sample Collection Date				4/1/2002	4/1/2002	4/1/2002	4/1/2002	4/2/2002	4/2/2002	4/2/2002
Total Metals (Cont'd)										
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-RRR (0.6-2.6)	TB-RRR (4.6-6.6)	TB-SSS (0.0-0.3)	TB-SSS (0.3-0.6)	TB-SSS (2.6-4.6)	TB-SSS (6.6-8.6)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.005	NT	NT	NT	ND<0.005	NT
Isopropylbenzene	500	1,000	132	ND<0.005	NT	NT	NT	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.005	NT	NT	NT	ND<0.005	NT
Naphthalene	1,000	2,500	56	ND<0.005	NT	NT	NT	0.019	NT
n-Propylbenzene	500	1,000	14	ND<0.005	NT	NT	NT	ND<0.005	NT
Tetrachloroethene	12	110	1	ND<0.005	NT	NT	NT	ND<0.005	NT
Toluene	500	1,000	67	ND<0.005	NT	NT	NT	ND<0.005	NT
Trichloroethene	56	520	1.0	ND<0.005	NT	NT	NT	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.005	NT	NT	NT	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	NT	NT	NT	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	NT	NT	NT	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	ND<0.005	NT	NT	NT	ND<0.005	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-RRR (0.6-2.6)	TB-RRR (4.6-6.6)	TB-SSS (0.0-0.3)	TB-SSS (0.3-0.6)	TB-SSS (2.6-4.6)	TB-SSS (6.6-8.6)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-RRR (0.6-2.6)	TB-RRR (4.6-6.6)	TB-SSS (0.0-0.3)	TB-SSS (0.3-0.6)	TB-SSS (2.6-4.6)	TB-SSS (6.6-8.6)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	ND<50	620	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-TTT (0.0-0.3)	TB-TTT (0.3-0.6)	TB-TTT (0.6-2.6)	TB-TTT (4.6-6.6)	TB-UUU (0.0-0.3)	TB-UUU (0.3-0.6)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.005	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.005	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.005	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.005	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.005	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	ND<0.005	NT	NT	NT
Toluene	500	1,000	67	NT	NT	ND<0.005	NT	NT	NT
Trichloroethene	56	520	1.0	NT	NT	ND<0.005	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.005	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.005	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-TTT (0.0-0.3)	TB-TTT (0.3-0.6)	TB-TTT (0.6-2.6)	TB-TTT (4.6-6.6)	TB-UUU (0.0-0.3)
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-0.6)	(0.6-2.6)	(4.6-6.6)	(0.0-0.3)	(0.3-0.6)
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-TTT (0.0-0.3)	TB-TTT (0.3-0.6)	TB-TTT (0.6-2.6)	TB-TTT (4.6-6.6)	TB-UUU (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-UUU (0.6-2.6)	TB-UUU (2.6-4.6)	TB-UUU (4.6-6.6)	TB-UUU (10-15)	TB-UUU (15-17)
Depth Below Grade (ft.)				(0.6-2.6)	(2.6-4.6)	(4.6-6.6)	(10-15)	(15-17)	(20-22)
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	ND<0.20	NT	0.50	0.24	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	NT	1.3	1.2	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	0.30	NT	1.5	0.99	ND<0.20
Benzo[a]anthracene	1	7.8	1	ND<0.20	1.2	NT	2.6	3.5	ND<0.20
Benzo[a]pyrene	1	1	1	0.27	1.1	NT	3.3	6.3	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	0.27	1.7	NT	3.6	7.2	ND<0.20
Benzo[g,h,i]perylene	1,000	2,500	42	0.30	1.3	NT	2.3	2.4	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	0.75	NT	1.6	4.0	ND<0.20
Chrysene	84	780	1	ND<0.20	1.1	NT	2.6	4.1	ND<0.20
Dibenz[a,h]anthracene	1	1	1	ND<0.20	0.25	NT	0.30	0.66	ND<0.20
Fluoranthene	1,000	2,500	56	0.24	2.4	NT	5.3	13	ND<0.20
Fluorene	1,000	2,500	56	ND<0.20	ND<0.20	NT	1.9	0.30	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.28	1.3	NT	2.6	2.8	ND<0.20
Naphthalene	1,000	2,500	56	ND<0.20	ND<0.20	NT	3.8	0.72	ND<0.20
Phenanthrene	1,000	2,500	40	ND<0.20	1.4	NT	6.2	1.7	ND<0.20
Pyrene	1,000	2,500	40	0.22	2.0	NT	5.0	14	ND<0.20
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
Trichloroethene	56	520	1.0	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-UUU (0.6-2.6)	TB-UUU (2.6-4.6)	TB-UUU (4.6-6.6)	TB-UUU (10-15)	TB-UUU (15-17)
Depth Below Grade (ft.)				(0.6-2.6)	(2.6-4.6)	(4.6-6.6)	(10-15)	(15-17)	(20-22)
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	NT	NT	ND<0.50	NT	ND<0.50	NT
PCB-1248	1	10	NA	NT	NT	ND<0.50	NT	ND<0.50	NT
PCB-1254	1	10	NA	NT	NT	ND<0.50	NT	ND<0.50	NT
PCB-1260	1	10	NA	NT	NT	ND<0.50	NT	ND<0.50	NT
Cyanide (total)	1,400	41,000	NA	ND<5.0	ND<5.0	NT	ND<5.0	ND<5.0	ND<5.0
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-UUU	TB-UUU	TB-UUU	TB-UUU	TB-UUU	TB-UUU
Depth Below Grade (ft.)				(0.6-2.6)	(2.6-4.6)	(4.6-6.6)	(10-15)	(15-17)	(20-22)
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-VVV (0.0-0.3)	TB-VVV (0.3-0.6)	TB-VVV (2-2.6)	TB-VVV (2.6-4.6)	TB-VVV (4.6-6.6)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	ND<0.20
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	0.23
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	0.21
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	0.22
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	ND<0.20
Chrysene	84	780	1	NT	NT	NT	NT	NT	ND<0.20
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	0.23
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	ND<0.20
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	0.23
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.005	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.005	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	ND<0.005	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	0.34	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.005	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	ND<0.005	NT	NT
Toluene	500	1,000	67	NT	NT	NT	ND<0.005	NT	NT
Trichloroethene	56	520	1.0	NT	NT	NT	ND<0.005	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.005	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	0.013	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	0.0071	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.005	NT	NT

Table C-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-WV (0.0-0.3)	TB-WV (0.3-0.6)	TB-WV (2-2.6)	TB-WV (2.6-4.6)	TB-WV (4.6-6.6)
Depth Below Grade (ft.)				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
Sample Collection Date									
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

**Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial		GB Area	TB-VWV	TB-VWV	TB-VWV	TB-VWV	TB-VWV
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-0.6)	(2-2.6)	(2.6-4.6)	(4.6-6.6)	(15-17)
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2
**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-VVV (25-27)	TB-WWW (0.0-0.3)	TB-WWW (0.3-2)	TB-WWW (2-4)	TB-WWW (4-6)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	NT	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	NT	NT	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	ND<0.20	NT	NT	NT	NT	ND<0.20
Benzo[a]pyrene	1	1	1	ND<0.20	NT	NT	NT	NT	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	NT	NT	NT	NT	ND<0.20
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	NT	NT	NT	NT	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	NT	NT	NT	ND<0.20
Chrysene	84	780	1	ND<0.20	NT	NT	NT	NT	ND<0.20
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	NT	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	ND<0.20	NT	NT	NT	NT	ND<0.20
Fluorene	1,000	2,500	56	ND<0.20	NT	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	NT	NT	NT	NT	ND<0.20
Naphthalene	1,000	2,500	56	ND<0.20	NT	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	ND<0.20	NT	NT	NT	NT	ND<0.20
Pyrene	1,000	2,500	40	ND<0.20	NT	NT	NT	NT	ND<0.20
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.005	NT	ND<0.005
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.005	NT	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	0.17	NT	0.0076
Naphthalene	1,000	2,500	56	NT	NT	NT	0.05	NT	ND<0.005
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.005	NT	ND<0.005
Tetrachloroethene	12	110	1	NT	NT	NT	ND<0.005	NT	ND<0.005
Toluene	500	1,000	67	NT	NT	NT	ND<0.005	NT	ND<0.005
Trichloroethene	56	520	1.0	NT	NT	NT	ND<0.005	NT	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.005	NT	ND<0.005
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.005	NT	ND<0.005

Table AOC-12.2
**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-VVV (25-27)	TB-WWW (0.0-0.3)	TB-WWW (0.3-2)	TB-WWW (2-4)	TB-WWW (4-6)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/Commercial		GB Area	TB-WV (25-27)	TB-WVW (0.0-0.3)	TB-WVW (0.3-2)	TB-WVW (2-4)	TB-WVW (4-6)	TB-WVW (20-22)
Depth Below Grade (ft.)										
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
Total Metals (Cont'd)										
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-XXX/ MW-L	TB-XXX/ MW-L	TB-XXX/ MW-L	TB-XXX/ MW-L	TB-XXX/ MW-L
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-1.3)	(2.3-4.3)	(4.3-6.3)	(10-12)	(15-16)
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	0.25	ND<0.20	0.49	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	1.6	0.47	4.8	NT	NT	NT
Benzo[a]pyrene	1	1	1	1.7	0.47	4.2	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	2.9	0.80	5.6	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.82	0.20	1.4	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	0.97	0.29	2.3	NT	NT	NT
Chrysene	84	780	1	1.6	0.45	4.0	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	0.26	ND<0.20	0.46	NT	NT	NT
Fluoranthene	1,000	2,500	56	3.3	0.80	8.7	NT	NT	NT
Fluorene	1,000	2,500	56	ND<0.20	ND<0.20	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.95	0.26	1.8	NT	NT	NT
Naphthalene	1,000	2,500	56	0.22	ND<0.20	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	2.3	0.68	4.3	NT	NT	NT
Pyrene	1,000	2,500	40	2.5	0.61	6.7	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
Tetrachloroethene	12	110	1	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
Toluene	500	1,000	67	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
Trichloroethene	56	520	1.0	ND<0.25	0.013	ND<0.25	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.25	ND<0.005	0.34	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.25	ND<0.005	ND<0.25	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.25	0.011	ND<0.25	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-XXX/ MW-L (0.0-0.3)	TB-XXX/ MW-L (0.3-1.3)	TB-XXX/ MW-L (2.3-4.3)	TB-XXX/ MW-L (4.3-6.3)	TB-XXX/ MW-L (10-12)
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-1.3)	(2.3-4.3)	(4.3-6.3)	(10-12)	(15-16)
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	1.5 ⁽¹⁾	1.2 ⁽¹⁾	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	ND<5.0
SPLP Metals									
Antimony	NA	NA	0.06	NT	ND<0.006	ND<0.006	NT	NT	ND<0.006
Arsenic	NA	NA	0.5	NT	ND<0.05	ND<0.05	NT	NT	ND<0.05
Barium	NA	NA	10	NT	0.38	0.34	NT	NT	0.22
Copper	NA	NA	13	NT	ND<0.04	ND<0.04	NT	NT	ND<0.04
Lead	NA	NA	0.15	NT	ND<0.013	ND<0.013	NT	NT	ND<0.013
Mercury	NA	NA	0.02	NT	ND<0.002	ND<0.002	NT	NT	ND<0.002
Nickel	NA	NA	1.0	NT	ND<0.05	ND<0.05	NT	NT	ND<0.05
Selenium	NA	NA	0.50	NT	ND<0.01	ND<0.01	NT	NT	ND<0.01
Thallium	NA	NA	0.05	NT	ND<0.005	ND<0.005	NT	NT	ND<0.005
Vanadium	NA	NA	0.50	NT	ND<0.05	ND<0.05	NT	NT	ND<0.05
Zinc	NA	NA	50	NT	0.48	0.14	NT	NT	2.3
Total Metals									
Antimony	27	8,200	NA	NT	ND<2.0	2.1	NT	NT	5.1
Arsenic	10	10	NA	97	140	280	71	89	12, 15 ⁽⁴⁾
Barium	4,700	140,000	NA	NT	67	36	NT	NT	18
Beryllium	2	2	NA	NT	ND<1.0	ND<1.0	NT	NT	ND<1.0
Cadmium	34	1,000	NA	NT	3.5	5.5	NT	NT	13
Chromium	100*	100*	NA	NT	13	7.6	NT	NT	6.3
Copper	2,500	76,000	NA	NT	110	38	NT	NT	1,600
Lead	500	1,000	NA	NT	81	100	NT	NT	510
Mercury	20	610	NA	NT	0.31	0.74	NT	NT	ND<0.20
Nickel	1,400	7,500	NA	NT	68	6.8	NT	NT	21
Selenium	340	10,000	NA	NT	5.6	4.1	NT	NT	ND<1.0

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-XXX/ MW-L	TB-XXX/ MW-L	TB-XXX/ MW-L	TB-XXX/ MW-L	TB-XXX/ MW-L
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-1.3)	(2.3-4.3)	(4.3-6.3)	(10-12)	(15-16)
Sample Collection Date				4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002	4/2/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	ND<2.0	ND<2.0	NT	NT	ND<2.0
Thallium	5.4	160	NA	NT	20	29	NT	NT	24
Vanadium	470	14,000	NA	NT	630	31	NT	NT	7.6
Zinc	20,000	610,000	NA	NT	340	19	NT	NT	1,900
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	79	ND<50	ND<50	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Ta AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-XXX/ MW-L (16-17)	TB-YYY (0.0-0.3)	TB-YYY (0.3-1.3)	TB-YYY (2.3-3.3)	TB-YYY (3.3-4.3)	TB-YYY (5.3-6.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	0.32	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	0.39	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	0.42	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	0.33	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	ND<0.20	NT
Chrysene	84	780	1	NT	NT	NT	NT	0.24	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	ND<0.20	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	0.37	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	0.40	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	ND<0.20	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	0.38	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.25	NT	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.25	NT	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.25	NT	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.25	NT	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.25	NT	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	NT	ND<0.25	NT	ND<0.005	NT
Toluene	500	1,000	67	NT	NT	ND<0.25	NT	ND<0.005	NT
Trichloroethene	56	520	1.0	NT	NT	ND<0.25	NT	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.25	NT	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.25	NT	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.25	NT	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.25	NT	ND<0.005	NT

Table AOC-12.2

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-XXX/ MW-L (16-17)	TB-YYY (0.0-0.3)	TB-YYY (0.3-1.3)	TB-YYY (2.3-3.3)	TB-YYY (3.3-4.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	9.4 ⁽¹⁾	3.1 ⁽²⁾	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	ND<0.006	NT	ND<0.006	NT
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	0.12	NT
Barium	NA	NA	10	NT	NT	1.3	NT	0.59	NT
Copper	NA	NA	13	NT	NT	ND<0.04	NT	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	NT	0.021	NT
Mercury	NA	NA	0.02	NT	NT	ND<0.002	NT	ND<0.002	NT
Nickel	NA	NA	1.0	NT	NT	ND<0.05	NT	ND<0.05	NT
Selenium	NA	NA	0.50	NT	NT	ND<0.01	NT	ND<0.01	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	NT	0.010	NT
Vanadium	NA	NA	0.50	NT	NT	2.3	NT	8.7	NT
Zinc	NA	NA	50	NT	NT	1.1	NT	0.37	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	3.9	NT
Arsenic	10	10	NA	NT	NT	46	NT	130	NT
Barium	4,700	140,000	NA	NT	NT	73	NT	39	NT
Beryllium	2	2	NA	NT	NT	1.0	NT	1.2	NT
Cadmium	34	1,000	NA	NT	NT	1.9	NT	3.8	NT
Chromium	100*	100*	NA	NT	NT	21	NT	10	NT
Copper	2,500	76,000	NA	NT	NT	130	NT	39	NT
Lead	500	1,000	NA	NT	NT	210	NT	340	NT
Mercury	20	610	NA	NT	NT	ND<0.20	NT	ND<0.20	NT
Nickel	1,400	7,500	NA	NT	NT	550	NT	4.9	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT	ND<1.0	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-XXX/ MW-L	TB-YYY	TB-YYY	TB-YYY	TB-YYY
Depth Below Grade (ft.)				(16-17)	(0.0-0.3)	(0.3-1.3)	(2.3-3.3)	(3.3-4.3)	(5.3-6.3)
Sample Collection Date				4/2/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	ND<2.0	NT	2.7	NT
Thallium	5.4	160	NA	NT	NT	14	NT	30	NT
Vanadium	470	14,000	NA	NT	NT	1,400	NT	2,300	NT
Zinc	20,000	610,000	NA	NT	NT	120	NT	24	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	NT	ND<50	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial	GB Area	TB-YYY (11-12)	TB-YYY (15-17)	TB-ZZZ (0.0-0.3)	TB-ZZZ (0.3-1.3)	TB-ZZZ (2.3-4.3)	TB-ZZZ (4.3-6.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	ND<0.20	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	0.20	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	0.22	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	ND<0.20	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	ND<0.20	NT	NT
Chrysene	84	780	1	NT	NT	NT	ND<0.20	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	0.50	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	ND<0.20	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	0.49	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	0.37	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
Trichloroethene	56	520	1.0	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-YYY (11-12) 4/3/2002	TB-YYY (15-17) 4/3/2002	TB-ZZZ (0.0-0.3) 4/3/2002	TB-ZZZ (0.3-1.3) 4/3/2002	TB-ZZZ (2.3-4.3) 4/3/2002
Depth Below Grade (ft.)									
Sample Collection Date									
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	ND<0.006	ND<0.006	NT
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	ND<0.05	NT
Barium	NA	NA	10	NT	NT	NT	0.20	0.21	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	ND<0.013	NT
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	ND<0.002	NT
Nickel	NA	NA	1.0	NT	NT	NT	ND<0.05	ND<0.05	NT
Selenium	NA	NA	0.50	NT	NT	NT	ND<0.01	0.01	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	NT	0.21	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	NT	0.20	0.18	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	3.1	NT
Arsenic	10	10	NA	NT	NT	NT	8.3	180	NT
Barium	4,700	140,000	NA	NT	NT	NT	25	62	NT
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	ND<1.0	NT
Cadmium	34	1,000	NA	NT	NT	NT	0.76	4.3	NT
Chromium	100*	100*	NA	NT	NT	NT	9.3	5.0	NT
Copper	2,500	76,000	NA	NT	NT	NT	15	22	NT
Lead	500	1,000	NA	NT	NT	NT	13	140	NT
Mercury	20	610	NA	NT	NT	NT	ND<0.20	0.64	NT
Nickel	1,400	7,500	NA	NT	NT	NT	12	2.5	NT
Selenium	340	10,000	NA	NT	NT	NT	ND<1.0	4.0	NT

Table AOC-12.2

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial		GB Area	TB-YYY (11-12)	TB-YYY (15-17)	TB-ZZZ (0.0-0.3)	TB-ZZZ (0.3-1.3)	TB-ZZZ (2.3-4.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	ND<2.0	NT
Thallium	5.4	160	NA	NT	NT	NT	5.8	27	NT
Vanadium	470	14,000	NA	NT	NT	NT	60	15	NT
Zinc	20,000	610,000	NA	NT	NT	NT	33	8.7	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	ND<50	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-ZZZ (10-12)	TB-ZZZ (15-16)	TB-AAAA (0.0-0.3)	TB-AAAA (0.3-1.3)	TB-AAAA (2.5-3)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	NT	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	0.93	NT	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	0.46	NT	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	3.6	NT	ND<0.20	NT
Benzo[a]pyrene	1	1	1	NT	NT	4.6	NT	ND<0.20	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	4.9	NT	ND<0.20	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	3.7	NT	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	1.9	NT	ND<0.20	NT
Chrysene	84	780	1	NT	NT	3.5	NT	ND<0.20	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	0.83	NT	ND<0.20	NT
Fluoranthene	1,000	2,500	56	NT	NT	6.5	NT	ND<0.20	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	NT	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	3.5	NT	ND<0.20	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	NT	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	3.4	NT	ND<0.20	NT
Pyrene	1,000	2,500	40	NT	NT	7.3	NT	ND<0.20	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	0.49	ND<0.25	NT	ND<0.25
Isopropylbenzene	500	1,000	132	NT	NT	0.0078	ND<0.25	NT	ND<0.25
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.005	ND<0.25	NT	ND<0.25
Naphthalene	1,000	2,500	56	NT	NT	ND<0.005	ND<0.25	NT	ND<0.25
n-Propylbenzene	500	1,000	14	NT	NT	0.0068	ND<0.25	NT	ND<0.25
Tetrachloroethene	12	110	1	NT	NT	ND<0.005	ND<0.25	NT	ND<0.25
Toluene	500	1,000	67	NT	NT	0.58	ND<0.25	NT	ND<0.25
Trichloroethene	56	520	1.0	NT	NT	ND<0.005	ND<0.25	NT	ND<0.25
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.005	ND<0.25	NT	ND<0.25
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	0.016	ND<0.25	NT	ND<0.25
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	0.034	ND<0.25	NT	ND<0.25
Xylenes (total)	500	1,000	19.5	NT	NT	2.8	ND<0.25	NT	ND<0.25

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-ZZZ (10-12)	TB-ZZZ (15-16)	TB-AAAA (0.0-0.3)	TB-AAAA (0.3-1.3)	TB-AAAA (2.5-3)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	ND<0.006	NT	ND<0.006	NT
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	ND<0.05	NT
Barium	NA	NA	10	NT	NT	0.29	NT	0.30	NT
Copper	NA	NA	13	NT	NT	ND<0.04	NT	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	0.036	NT	ND<0.013	NT
Mercury	NA	NA	0.02	NT	NT	ND<0.002	NT	ND<0.002	NT
Nickel	NA	NA	1.0	NT	NT	ND<0.05	NT	ND<0.05	NT
Selenium	NA	NA	0.50	NT	NT	ND<0.01	NT	ND<0.01	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	NT	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	NT	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	0.23	NT	0.19	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	ND<2.0	NT
Arsenic	10	10	NA	NT	NT	17	NT	6.2	NT
Barium	4,700	140,000	NA	NT	NT	85	NT	58	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	NT	ND<1.0	NT
Cadmium	34	1,000	NA	NT	NT	1.5	NT	ND<0.50	NT
Chromium	100*	100*	NA	NT	NT	7.7	NT	ND<2.0	NT
Copper	2,500	76,000	NA	NT	NT	140	NT	5.0	NT
Lead	500	1,000	NA	NT	NT	170	NT	8.8	NT
Mercury	20	610	NA	NT	NT	0.73	NT	ND<0.20	NT
Nickel	1,400	7,500	NA	NT	NT	11	NT	ND<2.0	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT	ND<1.0	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-ZZZ (10-12)	TB-ZZZ (15-16)	TB-AAAA (0.0-0.3)	TB-AAAA (0.3-1.3)	TB-AAAA (2.5-3)	TB-AAAA (4-6)
Depth Below Grade (ft.)				(10-12)	(15-16)	(0.0-0.3)	(0.3-1.3)	(2.5-3)	(4-6)
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	ND<2.0	NT	ND<2.0	NT
Thallium	5.4	160	NA	NT	NT	8.0	NT	ND<2.0	NT
Vanadium	470	14,000	NA	NT	NT	41	NT	13	NT
Zinc	20,000	610,000	NA	NT	NT	75	NT	2.1	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	ND<50	140	ND<50	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-AAAA (15-17)	TB-BBBB (0.0-0.3)	TB-BBBB (0.3-1.3)	TB-BBBB (2.3-4.3)	TB-BBBB (4.3-6.3)	TB-BBBB (10-12)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	0.32	NT	0.41	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	0.61	NT	4.8	NT	NT	NT
Benzo[a]pyrene	1	1	1	0.70	NT	6.7	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	0.85	NT	7.9	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.30	NT	3.7	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	0.37	NT	2.7	NT	NT	NT
Chrysene	84	780	1	0.50	NT	4.7	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	0.79	NT	NT	NT
Fluoranthene	1,000	2,500	56	1.6	NT	9.8	NT	NT	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.33	NT	4.1	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	0.24	NT	NT	NT
Phenanthrene	1,000	2,500	40	1.3	NT	0.74	NT	NT	NT
Pyrene	1,000	2,500	40	1.4	NT	11	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.25	ND<0.25	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.25	ND<0.25	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.25	ND<0.25	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.25	ND<0.25	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.25	ND<0.25	NT	NT
Tetrachloroethene	12	110	1	NT	NT	ND<0.25	ND<0.25	NT	NT
Toluene	500	1,000	67	NT	NT	ND<0.25	ND<0.25	NT	NT
Trichloroethene	56	520	1.0	NT	NT	ND<0.25	ND<0.25	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.25	ND<0.25	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.25	ND<0.25	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.25	ND<0.25	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.25	ND<0.25	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-AAAA (15-17)	TB-BBBB (0.0-0.3)	TB-BBBB (0.3-1.3)	TB-BBBB (2.3-4.3)	TB-BBBB (4.3-6.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	ND<0.006	ND<0.006	NT	NT
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	ND<0.05	NT	NT
Barium	NA	NA	10	NT	NT	0.19	0.53	NT	NT
Copper	NA	NA	13	NT	NT	ND<0.04	ND<0.04	NT	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	ND<0.013	NT	NT
Mercury	NA	NA	0.02	NT	NT	ND<0.002	ND<0.002	NT	NT
Nickel	NA	NA	1.0	NT	NT	ND<0.05	ND<0.05	NT	NT
Selenium	NA	NA	0.50	NT	NT	ND<0.01	ND<0.01	NT	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	ND<0.005	NT	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	ND<0.05	NT	NT
Zinc	NA	NA	50	NT	NT	0.11	0.34	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	ND<2.0	ND<2.0	NT	NT
Arsenic	10	10	NA	NT	NT	27	18	NT	NT
Barium	4,700	140,000	NA	NT	NT	51	53	NT	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	ND<1.0	NT	NT
Cadmium	34	1,000	NA	NT	NT	2.2	1.7	NT	NT
Chromium	100*	100*	NA	NT	NT	10	8.6	NT	NT
Copper	2,500	76,000	NA	NT	NT	67	39	NT	NT
Lead	500	1,000	NA	NT	NT	64	56	NT	NT
Mercury	20	610	NA	NT	NT	0.29	ND<0.20	NT	NT
Nickel	1,400	7,500	NA	NT	NT	16	7.6	NT	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	1.2	NT	NT

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Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-AAAA (15-17)	TB-BBBB (0.0-0.3)	TB-BBBB (0.3-1.3)	TB-BBBB (2.3-4.3)	TB-BBBB (4.3-6.3)	TB-BBBB (10-12)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	ND<2.0	ND<2.0	NT	NT
Thallium	5.4	160	NA	NT	NT	11	10	NT	NT
Vanadium	470	14,000	NA	NT	NT	40	18	NT	NT
Zinc	20,000	610,000	NA	NT	NT	95	25	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	100	140	140	93

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table HBC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-BBBB (15-17)	TB-CCCC (0.0-0.3)	TB-CCCC (2.5-2.8)	TB-CCCC (2.8-3.8)	TB-CCCC (4.5-6)	TB-CCCC (6-6.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	0.22	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	ND<0.20	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	0.50	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	ND<0.20	NT
Chrysene	84	780	1	NT	NT	NT	NT	0.91	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	ND<0.20	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	0.30	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	ND<0.20	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	1.0	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	0.38	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	0.039	NT	ND<0.25	NT	NT
Isopropylbenzene	500	1,000	132	NT	ND<0.005	NT	ND<0.25	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.005	NT	ND<0.25	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.005	NT	ND<0.25	NT	NT
n-Propylbenzene	500	1,000	14	NT	ND<0.005	NT	ND<0.25	NT	NT
Tetrachloroethene	12	110	1	NT	ND<0.005	NT	ND<0.25	NT	NT
Toluene	500	1,000	67	NT	0.15	NT	ND<0.25	NT	NT
Trichloroethene	56	520	1.0	NT	ND<0.005	NT	ND<0.25	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	NT	ND<0.25	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.005	NT	ND<0.25	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.005	NT	ND<0.25	NT	NT
Xylenes (total)	500	1,000	19.5	NT	0.18	NT	ND<0.25	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-BBBB (15-17)	TB-CCCC (0.0-0.3)	TB-CCCC (2.5-2.8)	TB-CCCC (2.8-3.8)	TB-CCCC (4.5-6)	TB-CCCC (6-6.5)
Depth Below Grade (ft.)				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
Sample Collection Date									
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	ND<0.006	NT	ND<0.006
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	NT	ND<0.05
Barium	NA	NA	10	NT	NT	NT	0.32	NT	0.50
Copper	NA	NA	13	NT	NT	NT	ND<0.04	NT	ND<0.04
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	NT	ND<0.013
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	NT	ND<0.002
Nickel	NA	NA	1.0	NT	NT	NT	ND<0.05	NT	ND<0.05
Selenium	NA	NA	0.50	NT	NT	NT	ND<0.01	NT	ND<0.01
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	NT	ND<0.005
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	NT	ND<0.05
Zinc	NA	NA	50	NT	NT	NT	0.32	NT	0.24
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	NT	2.7
Arsenic	10	10	NA	NT	NT	NT	7.4	NT	160
Barium	4,700	140,000	NA	NT	NT	NT	58	NT	22
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	NT	ND<1.0
Cadmium	34	1,000	NA	NT	NT	NT	ND<0.50	NT	6.7
Chromium	100*	100*	NA	NT	NT	NT	ND<2.0	NT	5.3
Copper	2,500	76,000	NA	NT	NT	NT	6.5	NT	38
Lead	500	1,000	NA	NT	NT	NT	5.4	NT	190
Mercury	20	610	NA	NT	NT	NT	ND<0.20	NT	0.51
Nickel	1,400	7,500	NA	NT	NT	NT	ND<2.0	NT	2.2
Selenium	340	10,000	NA	NT	NT	NT	2.2	NT	ND<1.0

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial	GB Area	TB-BBBB (15-17)	TB-CCCC (0.0-0.3)	TB-CCCC (2.5-2.8)	TB-CCCC (2.8-3.8)	TB-CCCC (4.5-6)	TB-CCCC (6-6.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	NT	ND<2.0
Thallium	5.4	160	NA	NT	NT	NT	ND<2.0	NT	43
Vanadium	470	14,000	NA	NT	NT	NT	3.8	NT	15
Zinc	20,000	610,000	NA	NT	NT	NT	4.3	NT	ND<2.0
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	670	NT	ND<50	ND<50	110	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-CCCC (10-12)	TB-CCCC (15-17)	TB-DDDD (0.0-0.3)	TB-DDDD (1.3-1.6)	TB-DDDD (1.6-2.6)	TB-DDDD (3.3-4.3)
Depth Below Grade (ft.)				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
Sample Collection Date									
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
Trichloroethene	56	520	1.0	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-CCCC (10-12)	TB-CCCC (15-17)	TB-DDDD (0.0-0.3)	TB-DDDD (1.3-1.6)	TB-DDDD (1.6-2.6)
Depth Below Grade (ft.)				(10-12)	(15-17)	(0.0-0.3)	(1.3-1.6)	(1.6-2.6)	(3.3-4.3)
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial		GB Area	TB-CCCC (10-12)	TB-CCCC (15-17)	TB-DDDD (0.0-0.3)	TB-DDDD (1.3-1.6)	TB-DDDD (1.6-2.6)
Depth Below Grade (ft.)				(10-12)	(15-17)	(0.0-0.3)	(1.3-1.6)	(1.6-2.6)	(3.3-4.3)
Sample Collection Date				4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002	4/3/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	ND<50	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-DDDD (15-17)	TB-EEEE (0.0-0.3)	TB-EEEE (1.5-1.8)	TB-EEEE (1.8-2.8)	TB-EEEE (3.8-5.8)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	NT	NT	NT	ND<0.25
Isopropylbenzene	500	1,000	132	NT	ND<0.005	NT	NT	NT	ND<0.25
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.005	NT	NT	NT	ND<0.25
Naphthalene	1,000	2,500	56	NT	ND<0.005	NT	NT	NT	ND<0.25
n-Propylbenzene	500	1,000	14	NT	ND<0.005	NT	NT	NT	ND<0.25
Tetrachloroethene	12	110	1	NT	ND<0.005	NT	NT	NT	ND<0.25
Toluene	500	1,000	67	NT	ND<0.005	NT	NT	NT	ND<0.25
Trichloroethene	56	520	1.0	NT	ND<0.005	NT	NT	NT	ND<0.25
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	NT	NT	NT	ND<0.25
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.005	NT	NT	NT	ND<0.25
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.005	NT	NT	NT	ND<0.25
Xylenes (total)	500	1,000	19.5	NT	ND<0.005	NT	NT	NT	ND<0.25

Table TDC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-DDDD (15-17)	TB-EEEE (0.0-0.3)	TB-EEEE (1.5-1.8)	TB-EEEE (1.8-2.8)	TB-EEEE (3.8-5.8)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	ND<0.006	ND<0.006	NT
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	ND<0.05	NT
Barium	NA	NA	10	NT	NT	NT	0.38	0.17	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	ND<0.013	NT
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	ND<0.002	NT
Nickel	NA	NA	1.0	NT	NT	NT	ND<0.05	ND<0.05	NT
Selenium	NA	NA	0.50	NT	NT	NT	ND<0.01	ND<0.01	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	NT	2.2	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	NT	0.13	0.21	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	ND<2.0	NT
Arsenic	10	10	NA	NT	NT	NT	6.7	1.9	NT
Barium	4,700	140,000	NA	NT	NT	NT	90	28	NT
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	ND<1.0	NT
Cadmium	34	1,000	NA	NT	NT	NT	ND<0.50	2.4	NT
Chromium	100*	100*	NA	NT	NT	NT	ND<2.0	11	NT
Copper	2,500	76,000	NA	NT	NT	NT	8.2	84	NT
Lead	500	1,000	NA	NT	NT	NT	8.4	59	NT
Mercury	20	610	NA	NT	NT	NT	ND<0.20	0.45	NT
Nickel	1,400	7,500	NA	NT	NT	NT	6.2	19	NT
Selenium	340	10,000	NA	NT	NT	NT	2.1	ND<1.0	NT


Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-DDDD (15-17)	TB-EEEE (0.0-0.3)	TB-EEEE (1.5-1.8)	TB-EEEE (1.8-2.8)	TB-EEEE (3.8-5.8)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	ND<2.0	NT
Thallium	5.4	160	NA	NT	NT	NT	ND<2.0	11	NT
Vanadium	470	14,000	NA	NT	NT	NT	240	25	NT
Zinc	20,000	610,000	NA	NT	NT	NT	2.6	230	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	ND<50	ND<50	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-EEEE (20-22)	TB-FFFF (0.0-0.3)	TB-FFFF (0.5-0.8)	TB-FFFF (2.5-3.5)	TB-FFFF (3.5-4.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	ND<0.20	NT	NT	ND<0.20	0.34	NT
Benzo[a]pyrene	1	1	1	ND<0.20	NT	NT	ND<0.20	0.39	NT
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	NT	NT	ND<0.20	0.62	NT
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	NT	ND<0.20	0.27	NT
Chrysene	84	780	1	ND<0.20	NT	NT	ND<0.20	0.38	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Fluoranthene	1,000	2,500	56	ND<0.20	NT	NT	ND<0.20	0.45	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	NT	NT	ND<0.20	0.20	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Phenanthrene	1,000	2,500	40	ND<0.20	NT	NT	ND<0.20	ND<0.20	NT
Pyrene	1,000	2,500	40	ND<0.20	NT	NT	ND<0.20	0.47	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	ND<0.005	NT
Toluene	500	1,000	67	NT	NT	NT	NT	ND<0.005	NT
Trichloroethene	56	520	1.0	NT	NT	NT	NT	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	ND<0.005	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-EEEE (20-22)	TB-FFFF (0.0-0.3)	TB-FFFF (0.5-0.8)	TB-FFFF (2.5-3.5)	TB-FFFF (3.5-4.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	ND<0.006	ND<0.006	NT
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	ND<0.05	NT
Barium	NA	NA	10	NT	NT	NT	0.15	0.16	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	ND<0.013	NT
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	ND<0.002	NT
Nickel	NA	NA	1.0	NT	NT	NT	ND<0.05	ND<0.05	NT
Selenium	NA	NA	0.50	NT	NT	NT	ND<0.01	ND<0.01	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	NT	0.13	0.14	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	2.8	NT
Arsenic	10	10	NA	NT	NT	NT	6.2	7.9	NT
Barium	4,700	140,000	NA	NT	NT	NT	51	89	NT
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	ND<1.0	NT
Cadmium	34	1,000	NA	NT	NT	NT	2.0	1.6	NT
Chromium	100*	100*	NA	NT	NT	NT	7.5	9.3	NT
Copper	2,500	76,000	NA	NT	NT	NT	53	210	NT
Lead	500	1,000	NA	NT	NT	NT	56	590	NT
Mercury	20	610	NA	NT	NT	NT	0.42	1.1	NT
Nickel	1,400	7,500	NA	NT	NT	NT	13	8.5	NT
Selenium	340	10,000	NA	NT	NT	NT	1.1	ND<1.0	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-EEEE (20-22)	TB-FFFF (0.0-0.3)	TB-FFFF (0.5-0.8)	TB-FFFF (2.5-3.5)	TB-FFFF (3.5-4.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/2/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	ND<2.0	NT
Thallium	5.4	160	NA	NT	NT	NT	11	8.3	NT
Vanadium	470	14,000	NA	NT	NT	NT	17	26	NT
Zinc	20,000	610,000	NA	NT	NT	NT	39	130	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	680	ND<50	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-GGGG (1-2)	TB-GGGG (2.3-4.3)	TB-HHHH (0.0-0.3)	TB-HHHH (1.3-2.3)	TB-HHHH (2.3-4.3)	TB-HHHH (5-6)
Depth Below Grade (ft.)									
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	0.92	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	1.3	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	1.9	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	0.82	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	0.73	NT	NT
Chrysene	84	780	1	NT	NT	NT	1.1	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	1.6	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	0.76	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	0.90	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	1.4	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.25	ND<0.25	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.25	ND<0.25	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	ND<0.25	ND<0.25	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.25	ND<0.25	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.25	ND<0.25	NT
Tetrachloroethene	12	110	1	NT	NT	NT	ND<0.25	ND<0.25	NT
Toluene	500	1,000	67	NT	NT	NT	ND<0.25	ND<0.25	NT
Trichloroethene	56	520	1.0	NT	NT	NT	ND<0.25	ND<0.25	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.25	ND<0.25	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.25	ND<0.25	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.25	ND<0.25	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.25	ND<0.25	NT

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Table AUC-12.2

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-GGGG (1-2)	TB-GGGG (2.3-4.3)	TB-HHHH (0.0-0.3)	TB-HHHH (1.3-2.3)	TB-HHHH (2.3-4.3)
Depth Below Grade (ft.)				(1-2)	(2.3-4.3)	(0.0-0.3)	(1.3-2.3)	(2.3-4.3)	(5-6)
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	ND<0.006	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	NT	NT
Barium	NA	NA	10	NT	NT	NT	0.23	NT	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	ND<0.05	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	0.014	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	NT	NT
Zinc	NA	NA	50	NT	NT	NT	0.25	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	2.3	NT	NT
Arsenic	10	10	NA	NT	NT	NT	140	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	51	NT	NT
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	4.7	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	9.0	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	54	NT	NT
Lead	500	1,000	NA	NT	NT	NT	160	NT	NT
Mercury	20	610	NA	NT	NT	NT	1.1	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	6.7	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	6.4	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-GGGG (1-2)	TB-GGGG (2.3-4.3)	TB-HHHH (0.0-0.3)	TB-HHHH (1.3-2.3)	TB-HHHH (2.3-4.3)
Depth Below Grade (ft.)				(1-2)	(2.3-4.3)	(0.0-0.3)	(1.3-2.3)	(2.3-4.3)	(5-6)
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	24	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	34	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	32	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	ND<50	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-III (0.0-0.3)	TB-III (0.3-1.3)	TB-III (4.3-6.3)	TB-JJJ (0.0-0.3)	TB-JJJ (1.5-1.8)
Depth Below Grade (ft.)									
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	ND<0.20	NT	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	1.0	NT	NT	NT	0.24
Benzo[a]pyrene	1	1	1	NT	1.3	NT	NT	NT	0.43
Benzo[b]fluoranthene	1	7.8	1	NT	2.0	NT	NT	NT	0.43
Benzo[g,h,i]perylene	1,000	2,500	42	NT	0.64	NT	NT	NT	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	NT	0.80	NT	NT	NT	ND<0.20
Chrysene	84	780	1	NT	1.2	NT	NT	NT	0.81
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	1.6	NT	NT	NT	0.20
Fluorene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	0.64	NT	NT	NT	ND<0.20
Naphthalene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	0.73	NT	NT	NT	0.98
Pyrene	1,000	2,500	40	NT	1.5	NT	NT	NT	0.29
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.25	NT	NT	NT	ND<0.25
Isopropylbenzene	500	1,000	132	NT	ND<0.25	NT	NT	NT	ND<0.25
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.25	NT	NT	NT	ND<0.25
Naphthalene	1,000	2,500	56	NT	ND<0.25	NT	NT	NT	ND<0.25
n-Propylbenzene	500	1,000	14	NT	ND<0.25	NT	NT	NT	ND<0.25
Tetrachloroethene	12	110	1	NT	0.60	NT	NT	NT	ND<0.25
Toluene	500	1,000	67	NT	ND<0.25	NT	NT	NT	ND<0.25
Trichloroethene	56	520	1.0	NT	ND<0.25	NT	NT	NT	ND<0.25
1,1,1-Trichloroethane	500	1,000	40	NT	0.63	NT	NT	NT	ND<0.25
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.25	NT	NT	NT	ND<0.25
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.25	NT	NT	NT	ND<0.25
Xylenes (total)	500	1,000	19.5	NT	ND<0.25	NT	NT	NT	ND<0.25

Table C-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-III (0.0-0.3) 4/4/2002	TB-III (0.3-1.3) 4/4/2002	TB-III (4.3-6.3) 4/4/2002	TB-JJJ (0.0-0.3) 4/4/2002	TB-JJJ (1.5-1.8) 4/4/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	1.9 ⁽²⁾	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	ND<0.006	NT	NT	NT	ND<0.006
Arsenic	NA	NA	0.5	NT	ND<0.05	NT	NT	NT	ND<0.05
Barium	NA	NA	10	NT	0.36	NT	NT	NT	0.37
Copper	NA	NA	13	NT	ND<0.04	NT	NT	NT	ND<0.04
Lead	NA	NA	0.15	NT	0.037	NT	NT	NT	ND<0.013
Mercury	NA	NA	0.02	NT	ND<0.002	NT	NT	NT	ND<0.002
Nickel	NA	NA	1.0	NT	0.052	NT	NT	NT	ND<0.05
Selenium	NA	NA	0.50	NT	ND<0.01	NT	NT	NT	ND<0.01
Thallium	NA	NA	0.05	NT	ND<0.005	NT	NT	NT	ND<0.005
Vanadium	NA	NA	0.50	NT	0.77	NT	NT	NT	ND<0.05
Zinc	NA	NA	50	NT	0.30	NT	NT	NT	0.25
Total Metals									
Antimony	27	8,200	NA	NT	ND<2.0	NT	NT	NT	ND<2.0
Arsenic	10	10	NA	NT	43	NT	NT	NT	6.3
Barium	4,700	140,000	NA	NT	58	NT	NT	NT	59
Beryllium	2	2	NA	NT	ND<1.0	NT	NT	NT	ND<1.0
Cadmium	34	1,000	NA	NT	1.7	NT	NT	NT	ND<0.50
Chromium	100*	100*	NA	NT	9.6	NT	NT	NT	ND<2.0
Copper	2,500	76,000	NA	NT	71	NT	NT	NT	5.1
Lead	500	1,000	NA	NT	110	NT	NT	NT	7.7
Mercury	20	610	NA	NT	0.39	NT	NT	NT	ND<0.20
Nickel	1,400	7,500	NA	NT	98	NT	NT	NT	ND<2.0
Selenium	340	10,000	NA	NT	ND<1.0	NT	NT	NT	2.3

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-III	TB-III	TB-III	TB-JJJ	TB-JJJ
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-1.3)	(4.3-6.3)	(0.0-0.3)	(1.5-1.8)	(1.8-2.8)
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	ND<2.0	NT	NT	NT	ND<2.0
Thallium	5.4	160	NA	NT	8.9	NT	NT	NT	ND<2.0
Vanadium	470	14,000	NA	NT	520	NT	NT	NT	13
Zinc	20,000	610,000	NA	NT	59	NT	NT	NT	ND<2.0
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	ND<50	ND<50	NT	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-JJJJ (3.5-5) 4/4/2002	TB-JJJJ (5-5.5) 4/4/2002	TB-KKKK (0.0-0.3) 4/4/2002	TB-KKKK (1-1.3) 4/4/2002	TB-KKKK (1.3-2.3) 4/4/2002	TB-KKKK ⁽⁴⁾ (5-6) 4/4/2002
Depth Below Grade (ft.)									
Sample Collection Date									
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
Trichloroethene	56	520	1.0	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-JJJJ (3.5-5) 4/4/2002	TB-JJJJ (5-5.5) 4/4/2002	TB-KKKK (0.0-0.3) 4/4/2002	TB-KKKK (1-1.3) 4/4/2002	TB-KKKK (1.3-2.3) 4/4/2002	TB-KKKK ⁽⁴⁾ (5-6) 4/4/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	3.7	NT	NT	NT	NT
Arsenic	10	10	NA	NT	300	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	37	NT	NT	NT	NT
Beryllium	2	2	NA	NT	ND<1.0	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	8.5	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	6.5	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	67	NT	NT	NT	NT
Lead	500	1,000	NA	NT	420	NT	NT	NT	NT
Mercury	20	610	NA	NT	ND<0.20	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	2.5	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	15	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-JJJJ	TB-JJJJ	TB-KKKK	TB-KKKK	TB-KKKK	TB-KKKK ⁽⁴⁾
Depth Below Grade (ft.)				(3.5-5)	(5-5.5)	(0.0-0.3)	(1-1.3)	(1.3-2.3)	(5-6)
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	ND<2.0	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	38	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	12	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	11	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.


Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-KKKK (5-6)	TB-LLLL (0.0-0.3)	TB-LLLL (0.3-0.6)	TB-LLLL (0.6-1.6)	TB-LLLL (3.3-4.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<0.20	0.50	0.44
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<0.20	0.39	0.26
Anthracene	1,000	2,500	400	NT	NT	NT	ND<0.20	0.91	0.70
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	0.30	1.7	1.3
Benzo[a]pyrene	1	1	1	NT	NT	NT	0.24	2.4	1.8
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	0.37	2.8	2.5
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	0.35	1.0	0.88
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	ND<0.20	1.2	1.1
Chrysene	84	780	1	NT	NT	NT	0.48	1.9	1.6
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<0.20	0.26	0.22
Fluoranthene	1,000	2,500	56	NT	NT	NT	0.27	4.0	3.2
Fluorene	1,000	2,500	56	NT	NT	NT	ND<0.20	0.61	0.51
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	0.28	1.1	1.0
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.20	1.6	1.8
Phenanthrene	1,000	2,500	40	NT	NT	NT	0.71	3.5	2.6
Pyrene	1,000	2,500	40	NT	NT	NT	0.28	4.0	3.0
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.25	0.13	0.04
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
Tetrachloroethene	12	110	1	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
Toluene	500	1,000	67	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
Trichloroethene	56	520	1.0	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.25	ND<0.005	ND<0.005

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-KKKK (5-6)	TB-LLLL (0.0-0.3)	TB-LLLL (0.3-0.6)	TB-LLLL (0.6-1.6)	TB-LLLL (3.3-4.3)	TB-LLLL (4.3-6.3)
Depth Below Grade (ft.)										
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT	NT
SPLP Metals										
Antimony	NA	NA	0.06	NT	NT	NT	ND<0.006	0.024	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	ND<0.05	NT	NT
Barium	NA	NA	10	NT	NT	NT	0.37	0.29	NT	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	ND<0.04	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	0.018	ND<0.013	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	ND<0.002	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	ND<0.05	ND<0.05	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	ND<0.01	ND<0.01	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	ND<0.005	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	0.22	ND<0.05	NT	NT
Zinc	NA	NA	50	NT	NT	NT	0.35	0.64	NT	NT
Total Metals										
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	2.6	NT	NT
Arsenic	10	10	NA	NT	NT	NT	19	9.3	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	53	78	NT	NT
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	ND<1.0	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	1.4	3.0	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	5.7	62	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	130	550	NT	NT
Lead	500	1,000	NA	NT	NT	NT	120	250	NT	NT
Mercury	20	610	NA	NT	NT	NT	0.29	4.4	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	35	49	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	1.4	ND<1.0	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-KKKK	TB-LLLL	TB-LLLL	TB-LLLL	TB-LLLL
Depth Below Grade (ft.)				(5-6)	(0.0-0.3)	(0.3-0.6)	(0.6-1.6)	(3.3-4.3)	(4.3-6.3)
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	2.7	NT
Thallium	5.4	160	NA	NT	NT	NT	7.2	6.0	NT
Vanadium	470	14,000	NA	NT	NT	NT	310	20	NT
Zinc	20,000	610,000	NA	NT	NT	NT	59	330	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	ND<50	520	280

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-MMMM (0.0-0.3)	TB-MMMM (0.5-0.8)	TB-MMMM (0.8-1.8)	TB-MMMM (4.5-6.5)	TB-NNNN (0.0-0.3)	TB-NNNN (1-3)
Depth Below Grade (ft.)									
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
Trichloroethene	56	520	1.0	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-MMMM (0.0-0.3)	TB-MMMM (0.5-0.8)	TB-MMMM (0.8-1.8)	TB-MMMM (4.5-6.5)	TB-NNNN (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-MMMM (0.0-0.3)	TB-MMMM (0.5-0.8)	TB-MMMM (0.8-1.8)	TB-MMMM (4.5-6.5)	TB-NNNN (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.


Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-NNNN (1.3-2.3)	TB-NNNN (4-5)	TB-0000 (0.0-0.3)	TB-0000 (2.0-2.3)	TB-0000 (4-5)
Depth Below Grade (ft.)									
Sample Collection Date				4/4/2002	4/4/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<0.20	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	NT	ND<0.20	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	0.58	ND<0.20	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	0.66	ND<0.20	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	0.97	ND<0.20	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	0.40	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	0.64	ND<0.20	NT
Chrysene	84	780	1	NT	NT	NT	0.96	ND<0.20	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<0.20	ND<0.20	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	0.97	ND<0.20	NT
Fluorene	1,000	2,500	56	NT	NT	NT	ND<0.20	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	0.37	ND<0.20	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	0.23	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	1.0	ND<0.20	NT
Pyrene	1,000	2,500	40	NT	NT	NT	0.92	ND<0.20	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.005	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.005	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	ND<0.005	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.005	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.005	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	NT	NT	ND<0.005	ND<0.005	NT
Toluene	500	1,000	67	NT	NT	NT	0.006	ND<0.005	NT
Trichloroethene	56	520	1.0	NT	NT	NT	ND<0.005	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.005	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.005	ND<0.005	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-NNNN (1.3-2.3)	TB-NNNN (4-5)	TB-O000 (0.0-0.3)	TB-O000 (2.0-2.3)	TB-O000 (4-5)
Depth Below Grade (ft.)				(1.3-2.3)	(4-5)	(0.0-0.3)	(2.0-2.3)	(4-5)	(0.0-0.3)
Sample Collection Date				4/4/2002	4/4/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	ND<0.006	ND<0.006	NT
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	ND<0.05	NT
Barium	NA	NA	10	NT	NT	NT	0.26	0.22	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	ND<0.013	NT
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	ND<0.002	NT
Nickel	NA	NA	1.0	NT	NT	NT	ND<0.05	ND<0.05	NT
Selenium	NA	NA	0.50	NT	NT	NT	ND<0.01	ND<0.01	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	NT	0.15	0.20	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	ND<2.0	NT
Arsenic	10	10	NA	NT	NT	NT	15	75	NT
Barium	4,700	140,000	NA	NT	NT	NT	63	71	NT
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	ND<1.0	NT
Cadmium	34	1,000	NA	NT	NT	NT	1.2	13	NT
Chromium	100*	100*	NA	NT	NT	NT	5.5	5.9	NT
Copper	2,500	76,000	NA	NT	NT	NT	80	19	NT
Lead	500	1,000	NA	NT	NT	NT	73	200	NT
Mercury	20	610	NA	NT	NT	NT	2.6	0.43	NT
Nickel	1,400	7,500	NA	NT	NT	NT	6.2	2.3	NT
Selenium	340	10,000	NA	NT	NT	NT	ND<1.0	8.6	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-NNNN (1.3-2.3)	TB-NNNN (4-5)	TB-O000 (0.0-0.3)	TB-O000 (2.0-2.3)	TB-O000 (4-5)	TB-PPPP (0.0-0.3)
Depth Below Grade (ft.)										
Sample Collection Date				4/4/2002	4/4/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)										
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	ND<2.0	NT	
Thallium	5.4	160	NA	NT	NT	NT	5.8	24	NT	
Vanadium	470	14,000	NA	NT	NT	NT	38	10	NT	
Zinc	20,000	610,000	NA	NT	NT	NT	47	ND<2.0	NT	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	ND<50	ND<50	NT	

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table 12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-PPPP (0.3-0.6) 4/5/2002	TB-PPPP (0.9-1) 4/5/2002	TB-PPPP (2.3-4.3) 4/5/2002	TB-QQQQ (0.0-0.3) 4/5/2002	TB-QQQQ (0.3-2.3) 4/5/2002
Depth Below Grade (ft.)									
Sample Collection Date									
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	NT	NT	NT	NT	0.30	0.31
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	1.8	1.6
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	2.2	2.2
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	3.6	3.1
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	0.97	0.71
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	1.6	1.3
Chrysene	84	780	1	NT	NT	NT	NT	2.0	1.7
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	0.29	ND<0.20
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	3.4	3.8
Fluorene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	1.1	0.90
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	0.23	ND<0.20
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	1.5	2.0
Pyrene	1,000	2,500	40	NT	NT	NT	NT	2.9	3.6
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	ND<0.25	ND<0.25
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	ND<0.25	ND<0.25
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	ND<0.25	ND<0.25
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.25	ND<0.25
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.25	ND<0.25
Tetrachloroethene	12	110	1	NT	NT	NT	NT	ND<0.25	ND<0.25
Toluene	500	1,000	67	NT	NT	NT	NT	ND<0.25	ND<0.25
Trichloroethene	56	520	1.0	NT	NT	NT	NT	ND<0.25	ND<0.25
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	ND<0.25	ND<0.25
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.25	ND<0.25
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.25	ND<0.25
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	ND<0.25	ND<0.25

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-PPPP (0.3-0.6)	TB-PPPP (0.9-1)	TB-PPPP (2.3-4.3)	TB-QQQQ (0.0-0.3)	TB-QQQQ (0.3-2.3)	TB-QQQQ (2.3-4.3)
Depth Below Grade (ft.)										
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT	NT
SPLP Metals										
Antimony	NA	NA	0.06	NT	NT	NT	NT	ND<0.006	ND<0.006	
Arsenic	NA	NA	0.5	NT	NT	NT	NT	ND<0.05	ND<0.05	
Barium	NA	NA	10	NT	NT	NT	NT	0.30	0.33	
Copper	NA	NA	13	NT	NT	NT	NT	ND<0.04	0.052	
Lead	NA	NA	0.15	NT	NT	NT	NT	ND<0.013	ND<0.013	
Mercury	NA	NA	0.02	NT	NT	NT	NT	ND<0.002	ND<0.002	
Nickel	NA	NA	1.0	NT	NT	NT	NT	ND<0.05	ND<0.05	
Selenium	NA	NA	0.50	NT	NT	NT	NT	ND<0.01	ND<0.01	
Thallium	NA	NA	0.05	NT	NT	NT	NT	ND<0.005	ND<0.005	
Vanadium	NA	NA	0.50	NT	NT	NT	NT	ND<0.05	ND<0.05	
Zinc	NA	NA	50	NT	NT	NT	NT	0.26	0.21	
Total Metals										
Antimony	27	8,200	NA	NT	NT	NT	NT	2.2	ND<2.0	
Arsenic	10	10	NA	NT	NT	NT	NT	26	13	
Barium	4,700	140,000	NA	NT	NT	NT	NT	99	51	
Beryllium	2	2	NA	NT	NT	NT	NT	ND<1.0	ND<1.0	
Cadmium	34	1,000	NA	NT	NT	NT	NT	15	1.9	
Chromium	100*	100*	NA	NT	NT	NT	NT	21	11	
Copper	2,500	76,000	NA	NT	NT	NT	NT	170	150	
Lead	500	1,000	NA	NT	NT	NT	NT	170	88	
Mercury	20	610	NA	NT	NT	NT	NT	0.48	0.38	
Nickel	1,400	7,500	NA	NT	NT	NT	NT	8.8	11	
Selenium	340	10,000	NA	NT	NT	NT	NT	1.4	ND<1.0	

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-PPPP (0.3-0.6)	TB-PPPP (0.9-1)	TB-PPPP (2.3-4.3)	TB-QQQQ (0.0-0.3)	TB-QQQQ (0.3-2.3)	TB-QQQQ (2.3-4.3)
Depth Below Grade (ft.)										
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)										
Silver	340	10,000	NA	NT	NT	NT	NT	ND<2.0	ND<2.0	
Thallium	5.4	160	NA	NT	NT	NT	NT	14	6.5	
Vanadium	470	14,000	NA	NT	NT	NT	NT	25	22	
Zinc	20,000	610,000	NA	NT	NT	NT	NT	290	76	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	ND<50	100	

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-RRRR (0.0-0.3)	TB-RRRR (1-1.3)	TB-RRRR (3.3-3.9)	TB-RRRR (3.9-4)	TB-SSSS (0.0-0.3)
Depth Below Grade (ft.)				(0.0-0.3)	(1-1.3)	(3.3-3.9)	(3.9-4)	(0.0-0.3)	(2.2-2.5)
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
Trichloroethene	56	520	1.0	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-RRRR (0.0-0.3)	TB-RRRR (1-1.3)	TB-RRRR (3.3-3.9)	TB-RRRR (3.9-4)	TB-SSSS (0.0-0.3)	TB-SSSS (2.2-2.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-RRRR	TB-RRRR	TB-RRRR	TB-RRRR	TB-SSSS
Depth Below Grade (ft.)				(0.0-0.3)	(1-1.3)	(3.3-3.9)	(3.9-4)	(0.0-0.3)	(2.2-2.5)
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-S555 (2.5-4.5)	TB-TTTT (0.0-0.3)	TB-TTTT (1-1.3)	TB-TTTT (2.3-4.3)	TB-UUUU (0.0-0.3)	TB-UUUU (1.2-1.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	NT	ND<0.20	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	NT	ND<0.20	NT	0.32
Anthracene	1,000	2,500	400	ND<0.20	NT	NT	0.22	NT	0.53
Benzo[a]anthracene	1	7.8	1	ND<0.20	NT	NT	0.51	NT	2.3
Benzo[a]pyrene	1	1	1	0.36	NT	NT	0.74	NT	2.4
Benzo[b]fluoranthene	1	7.8	1	0.47	NT	NT	1.1	NT	3.9
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	NT	NT	0.26	NT	0.71
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	NT	0.46	NT	1.6
Chrysene	84	780	1	0.69	NT	NT	0.55	NT	2.5
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	NT	ND<0.20	NT	0.27
Fluoranthene	1,000	2,500	56	ND<0.20	NT	NT	1.3	NT	4.2
Fluorene	1,000	2,500	56	ND<0.20	NT	NT	ND<0.20	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	NT	NT	0.28	NT	0.99
Naphthalene	1,000	2,500	56	0.24	NT	NT	0.22	NT	ND<0.20
Phenanthrene	1,000	2,500	40	0.77	NT	NT	0.52	NT	2.2
Pyrene	1,000	2,500	40	ND<0.20	NT	NT	1.4	NT	3.9
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
Isopropylbenzene	500	1,000	132	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
4-Isopropyltoluene	500	1,000	41.8	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
Naphthalene	1,000	2,500	56	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
n-Propylbenzene	500	1,000	14	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
Tetrachloroethene	12	110	1	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
Toluene	500	1,000	67	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
Trichloroethene	56	520	1.0	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
1,1,1-Trichloroethane	500	1,000	40	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25
Xylenes (total)	500	1,000	19.5	ND<0.25	NT	NT	ND<0.25	NT	ND<0.25

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-S555 (2.5-4.5)	TB-TTTT (0.0-0.3)	TB-TTTT (1-1.3)	TB-TTTT (2.3-4.3)	TB-UUUU (0.0-0.3)	TB-UUUU (1.2-1.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	ND<0.006	NT	NT	0.012	NT	0.009
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	ND<0.05	NT	ND<0.05
Barium	NA	NA	10	0.21	NT	NT	0.27	NT	0.30
Copper	NA	NA	13	ND<0.04	NT	NT	ND<0.04	NT	ND<0.04
Lead	NA	NA	0.15	ND<0.013	NT	NT	ND<0.013	NT	0.05
Mercury	NA	NA	0.02	ND<0.002	NT	NT	ND<0.002	NT	ND<0.002
Nickel	NA	NA	1.0	ND<0.05	NT	NT	ND<0.05	NT	ND<0.05
Selenium	NA	NA	0.50	ND<0.01	NT	NT	ND<0.01	NT	ND<0.01
Thallium	NA	NA	0.05	ND<0.005	NT	NT	ND<0.005	NT	ND<0.005
Vanadium	NA	NA	0.50	ND<0.05	NT	NT	ND<0.05	NT	ND<0.05
Zinc	NA	NA	50	0.15	NT	NT	0.28	NT	0.22
Total Metals									
Antimony	27	8,200	NA	3.6	NT	NT	2.2	NT	ND<2.0
Arsenic	10	10	NA	110	NT	NT	11	NT	25
Barium	4,700	140,000	NA	52	NT	NT	45	NT	110
Beryllium	2	2	NA	ND<1.0	NT	NT	ND<1.0	NT	ND<1.0
Cadmium	34	1,000	NA	7.3	NT	NT	2.7	NT	2.4
Chromium	100*	100*	NA	7.9	NT	NT	16	NT	9.0
Copper	2,500	76,000	NA	64	NT	NT	290	NT	140
Lead	500	1,000	NA	220	NT	NT	180	NT	270
Mercury	20	610	NA	0.44	NT	NT	1.1	NT	0.34
Nickel	1,400	7,500	NA	2.4	NT	NT	19	NT	15
Selenium	340	10,000	NA	7.5	NT	NT	ND<1.0	NT	ND<1.0

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-SSSS	TB-TTTT	TB-TTTT	TB-TTTT	TB-UUUU	TB-UUUU
Depth Below Grade (ft.)				(2.5-4.5)	(0.0-0.3)	(1-1.3)	(2.3-4.3)	(0.0-0.3)	(1.2-1.5)
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	ND<2.0	NT	NT	ND<2.0	NT	ND<2.0
Thallium	5.4	160	NA	27	NT	NT	8.5	NT	7.7
Vanadium	470	14,000	NA	59	NT	NT	43	NT	39
Zinc	20,000	610,000	NA	11	NT	NT	270	NT	220
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	NT	ND<50	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-UUUU (5-7) 4/5/2002	TB-VVVV (0.0-0.3) 4/5/2002	TB-WVV (0.5-2.5) 4/5/2002	TB-VVVV (2.5-4.5) 4/5/2002	TB-WWWW (0.0-0.3) 4/5/2002	TB-WWWW (2.2-2.5) 4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	0.22	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	0.67	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	1.5	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	1.6	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	2.5	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	0.57	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	1.0	NT	NT	NT
Chrysene	84	780	1	NT	NT	1.6	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	ND<0.20	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	3.2	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	0.57	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	2.9	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	2.7	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.25	NT	ND<0.25	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.25	NT	ND<0.25	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.25	NT	ND<0.25	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.25	NT	ND<0.25	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.25	NT	ND<0.25	NT	NT	NT
Tetrachloroethene	12	110	1	ND<0.25	NT	ND<0.25	NT	NT	NT
Toluene	500	1,000	67	ND<0.25	NT	ND<0.25	NT	NT	NT
Trichloroethene	56	520	1.0	ND<0.25	NT	ND<0.25	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.25	NT	ND<0.25	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.25	NT	ND<0.25	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.25	NT	ND<0.25	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.25	NT	ND<0.25	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-UUUU (5-7) 4/5/2002	TB-VVVV (0.0-0.3) 4/5/2002	TB-VVVV (0.5-2.5) 4/5/2002	TB-VVVV (2.5-4.5) 4/5/2002	TB-WWWW (0.0-0.3) 4/5/2002
Depth Below Grade (ft.)									
Sample Collection Date									
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	ND<0.006	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	NT	NT	0.19	NT	NT	NT
Copper	NA	NA	13	NT	NT	ND<0.04	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	ND<0.002	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	ND<0.05	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	ND<0.01	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	NT	NT	NT
Zinc	NA	NA	50	NT	NT	0.21	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	NT	NT
Arsenic	10	10	NA	NT	NT	18	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	59	NT	NT	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	1.9	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	5.7	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	180	NT	NT	NT
Lead	500	1,000	NA	NT	NT	190	NT	NT	NT
Mercury	20	610	NA	NT	NT	0.74	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	7.2	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	NT	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.2 Page 95 of 117

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-UUUU (5-7)	TB-VVVV (0.0-0.3)	TB-VVV (0.5-2.5)	TB-VVVV (2.5-4.5)	TB-WWWW (0.0-0.3)	TB-WWWW (2.2-2.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	ND<2.0	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	7.1	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	22	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	210	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	1,400	NT	ND<50	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-WWWW	TB-XXXX	TB-XXXX	TB-XXXX	TB-YYYY
Depth Below Grade (ft.)				(2.5-4.5)	(0.0-0.3)	(2.3-4.3)	(4.3-6.3)	(0.0-0.3)	(2-2.3)
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.005	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.005	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	ND<0.005	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.005	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.005	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	ND<0.005	NT	NT
Toluene	500	1,000	67	NT	NT	NT	ND<0.005	NT	NT
Trichloroethene	56	520	1.0	NT	NT	NT	ND<0.005	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.005	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.005	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-WWWW (2.5-4.5)	TB-XXXX (0.0-0.3)	TB-XXXX (2.3-4.3)	TB-XXXX (4.3-6.3)	TB-YYYY (0.0-0.3)	TB-YYYY (2-2.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-WWWW	TB-XXXX	TB-XXXX	TB-XXXX	TB-YYYY	TB-YYYY
Depth Below Grade (ft.)				(2.5-4.5)	(0.0-0.3)	(2.3-4.3)	(4.3-6.3)	(0.0-0.3)	(2-2.3)
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-YYYY (2.5-3) 4/5/2002	TB-YYYY (3-5) 4/5/2002	TB-YYYY (5-7) 4/5/2002	TB-ZZZZ (0.0-0.3) 4/5/2002	TB-ZZZZ (0.3-2.3) 4/5/2002	TB-ZZZZ (2.3-4.3) 4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	ND<0.20	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	ND<0.20	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	ND<0.20	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	ND<0.20	NT
Chrysene	84	780	1	NT	NT	NT	NT	ND<0.20	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	ND<0.20	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	ND<0.20	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	ND<0.20	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	ND<0.20	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	ND<0.005	NT
Toluene	500	1,000	67	NT	NT	NT	NT	ND<0.005	NT
Trichloroethene	56	520	1.0	NT	NT	NT	NT	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	ND<0.005	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/Commercial	GB Area	TB-YYYY (2.5-3) 4/5/2002	TB-YYYY (3-5) 4/5/2002	TB-YYYY (5-7) 4/5/2002	TB-ZZZZ (0.0-0.3) 4/5/2002	TB-ZZZZ (0.3-2.3) 4/5/2002	TB-ZZZZ (2.3-4.3) 4/5/2002
Depth Below Grade (ft.)									
Sample Collection Date									
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	ND<0.006	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	ND<0.05	NT
Barium	NA	NA	10	NT	NT	NT	NT	0.16	NT
Copper	NA	NA	13	NT	NT	NT	NT	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	ND<0.013	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	ND<0.002	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	ND<0.05	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	ND<0.01	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	NT	NT	0.12	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	ND<2.0	NT
Arsenic	10	10	NA	NT	NT	NT	NT	4.4	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	17	NT
Beryllium	2	2	NA	NT	NT	NT	NT	ND<1.0	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	0.58	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	4.1	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	8.8	NT
Lead	500	1,000	NA	NT	NT	NT	NT	8.7	NT
Mercury	20	610	NA	NT	NT	NT	NT	ND<0.20	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	5.1	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	ND<1.0	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-YYYY (2.5-3)	TB-YYYY (3-5)	TB-YYYY (5-7)	TB-ZZZZ (0.0-0.3)	TB-ZZZZ (0.3-2.3)	TB-ZZZZ (2.3-4.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	ND<2.0	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	3.2	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	19	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	8.8	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	ND<50	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-AAAAA (0.0-0.3)	TB-AAAAA (0.5-2.5)	TB-BBBBB (0.0-0.3)	TB-BBBBB (0.5-2.5)	TB-BBBBB (2.5-4.5)	TB-BBBBB (4.5-5.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	ND<0.20	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	ND<0.20	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	ND<0.20	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	ND<0.20	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	ND<0.20	NT	NT
Chrysene	84	780	1	NT	NT	NT	ND<0.20	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	ND<0.20	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	ND<0.20	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	ND<0.20	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.25	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.25	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	ND<0.25	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.25	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.25	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	NT	NT	ND<0.25	ND<0.005	NT
Toluene	500	1,000	67	NT	NT	NT	ND<0.25	ND<0.005	NT
Trichloroethene	56	520	1.0	NT	NT	NT	ND<0.25	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.25	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.25	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.25	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.25	ND<0.005	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-AAAAA (0.0-0.3) 4/5/2002	TB-AAAAA (0.5-2.5) 4/5/2002	TB-BBBBB (0.0-0.3) 4/5/2002	TB-BBBBB (0.5-2.5) 4/5/2002	TB-BBBBB (2.5-4.5) 4/5/2002	TB-BBBBB (4.5-5.5) 4/5/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	ND<0.006	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	NT	NT
Barium	NA	NA	10	NT	NT	NT	0.16	NT	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	ND<0.05	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	ND<0.01	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	NT	NT
Zinc	NA	NA	50	NT	NT	NT	0.13	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	NT	NT
Arsenic	10	10	NA	NT	NT	NT	1.9	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	35	NT	NT
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	0.76	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	5.0	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	16	NT	NT
Lead	500	1,000	NA	NT	NT	NT	14	NT	NT
Mercury	20	610	NA	NT	NT	NT	ND<0.20	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	4.4	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	ND<1.0	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-AAAAA (0.0-0.3)	TB-AAAAA (0.5-2.5)	TB-BBBBB (0.0-0.3)	TB-BBBBB (0.5-2.5)	TB-BBBBB (2.5-4.5)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	5.2	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	19	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	11	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	ND<50	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-CCCCC (0.0-0.3)	TB-CCCCC (2-4)	TB-CCCCC (4-5)	TB-DDDDD (0.0-0.3)	TB-DDDDD (0.5-0.8)	TB-EEEEEE (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	NT
Chrysene	84	780	1	NT	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.25	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	ND<0.25	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.25	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	ND<0.25	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	ND<0.25	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	ND<0.25	NT	NT	NT	NT
Toluene	500	1,000	67	NT	ND<0.25	NT	NT	NT	NT
Trichloroethene	56	520	1.0	NT	ND<0.25	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.25	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.25	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.25	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	ND<0.25	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-CCCCC (0.0-0.3)	TB-CCCCC (2-4)	TB-CCCCC (4-5)	TB-DDDDD (0.0-0.3)	TB-DDDDD (0.5-0.8)
Depth Below Grade (ft.)				(0.0-0.3)	(2-4)	(4-5)	(0.0-0.3)	(0.5-0.8)	(0.0-0.3)
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-CCCCC (0.0-0.3)	TB-CCCCC (2-4)	TB-CCCCC (4-5)	TB-DDDDD (0.0-0.3)	TB-DDDDD (0.5-0.8)	TB-EEEEEE (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table C-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-EEEE	TB-EEEE	TB-FFFF	TB-FFFF	TB-GGGG
Depth Below Grade (ft.)				(0.3-2.3)	(2.3-4.3)	(0.0-0.3)	(0.5-0.8)	(0.0-0.3)	(0.5-1.2)
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	0.50	NT	NT	NT	NT	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	NT	NT	NT	NT
Anthracene	1,000	2,500	400	0.88	NT	NT	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	1.7	NT	NT	NT	NT	NT
Benzo[a]pyrene	1	1	1	2.0	NT	NT	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	3.1	NT	NT	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.87	NT	NT	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	1.4	NT	NT	NT	NT	NT
Chrysene	84	780	1	1.7	NT	NT	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	0.23	NT	NT	NT	NT	NT
Fluoranthene	1,000	2,500	56	4.6	NT	NT	NT	NT	NT
Fluorene	1,000	2,500	56	0.59	NT	NT	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	1.0	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	0.65	NT	NT	NT	NT	NT
Phenanthrene	1,000	2,500	40	4.8	NT	NT	NT	NT	NT
Pyrene	1,000	2,500	40	3.6	NT	NT	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.25	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.25	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.25	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.25	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.25	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	ND<0.25	NT	NT	NT	NT	NT
Toluene	500	1,000	67	ND<0.25	NT	NT	NT	NT	NT
Trichloroethene	56	520	1.0	ND<0.25	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.25	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.25	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.25	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.25	NT	NT	NT	NT	NT

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.2 Page 109 of 117

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-EEEEEE (0.3-2.3) 4/5/2002	TB-EEEEEE (2.3-4.3) 4/5/2002	TB-FFFFF (0.0-0.3) 4/5/2002	TB-FFFFF (0.5-0.8) 4/5/2002	TB-GGGGG (0.0-0.3) 4/5/2002
Depth Below Grade (ft.)									
Sample Collection Date									
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	ND<0.006	NT	NT	NT	NT	NT
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	NT	NT	NT
Barium	NA	NA	10	0.36	NT	NT	NT	NT	NT
Copper	NA	NA	13	ND<0.04	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	ND<0.013	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	ND<0.002	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	ND<0.05	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	ND<0.01	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	ND<0.005	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	ND<0.05	NT	NT	NT	NT	NT
Zinc	NA	NA	50	0.23	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	ND<2.0	NT	NT	NT	NT	NT
Arsenic	10	10	NA	2.7	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	26	NT	NT	NT	NT	NT
Beryllium	2	2	NA	ND<1.0	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	1.0	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	6.7	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	42	NT	NT	NT	NT	NT
Lead	500	1,000	NA	21	NT	NT	NT	NT	NT
Mercury	20	610	NA	ND<0.20	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	9.2	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	ND<1.0	NT	NT	NT	NT	NT

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-EEEEEE	TB-EEEEEE	TB-FFFFF	TB-FFFFF	TB-GGGGG
Depth Below Grade (ft.)				(0.3-2.3)	(2.3-4.3)	(0.0-0.3)	(0.5-0.8)	(0.0-0.3)	(0.5-1.2)
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	ND<2.0	NT	NT	NT	NT	NT
Thallium	5.4	160	NA	6.1	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	42	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	33	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-HHHHH (0.0-0.3)	TB-HHHHH (0.5-2.5)	TB-HHHHH (2.5-4.5)	TB-IIIII (0.0-0.3)	TB-JJJJJ (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	0.28	NT	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	1.2	NT	NT	NT	0.37
Benzo[a]pyrene	1	1	1	NT	1.3	NT	NT	NT	0.59
Benzo[b]fluoranthene	1	7.8	1	NT	2.1	NT	NT	NT	0.73
Benzo[g,h,i]perylene	1,000	2,500	42	NT	0.53	NT	NT	NT	0.34
Benzo[k]fluoranthene	8.4	78	1	NT	0.84	NT	NT	NT	0.58
Chrysene	84	780	1	NT	1.3	NT	NT	NT	0.37
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	2.3	NT	NT	NT	0.57
Fluorene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	0.62	NT	NT	NT	0.36
Naphthalene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	1.6	NT	NT	NT	ND<0.20
Pyrene	1,000	2,500	40	NT	2.1	NT	NT	NT	0.64
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
Isopropylbenzene	500	1,000	132	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
Naphthalene	1,000	2,500	56	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
n-Propylbenzene	500	1,000	14	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
Tetrachloroethene	12	110	1	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
Toluene	500	1,000	67	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
Trichloroethene	56	520	1.0	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	ND<0.25	ND<0.25	ND<0.005	NT	ND<0.005

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-HHHHH (0.0-0.3)	TB-HHHHH (0.5-2.5)	TB-HHHHH (2.5-4.5)	TB-IIIHH (0.0-0.3)	TB-JJJJJ (0.0-0.3)	TB-JJJJJ (0.3-2.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
SPLP Metals									
Antimony	NA	NA	0.06	NT	ND<0.006	NT	NT	NT	ND<0.006
Arsenic	NA	NA	0.5	NT	ND<0.05	NT	NT	NT	ND<0.05
Barium	NA	NA	10	NT	0.41	NT	NT	NT	0.34
Copper	NA	NA	13	NT	ND<0.04	NT	NT	NT	ND<0.04
Lead	NA	NA	0.15	NT	0.015	NT	NT	NT	ND<0.013
Mercury	NA	NA	0.02	NT	ND<0.002	NT	NT	NT	ND<0.002
Nickel	NA	NA	1.0	NT	ND<0.05	NT	NT	NT	ND<0.05
Selenium	NA	NA	0.50	NT	ND<0.01	NT	NT	NT	ND<0.01
Thallium	NA	NA	0.05	NT	ND<0.005	NT	NT	NT	ND<0.005
Vanadium	NA	NA	0.50	NT	ND<0.05	NT	NT	NT	ND<0.05
Zinc	NA	NA	50	NT	0.28	NT	NT	NT	0.34
Total Metals									
Antimony	27	8,200	NA	NT	2.2	NT	NT	NT	ND<2.0
Arsenic	10	10	NA	NT	120	NT	NT	NT	ND<1.0
Barium	4,700	140,000	NA	NT	67	NT	NT	NT	37
Beryllium	2	2	NA	NT	ND<1.0	NT	NT	NT	ND<1.0
Cadmium	34	1,000	NA	NT	8.1	NT	NT	NT	0.74
Chromium	100*	100*	NA	NT	8.1	NT	NT	NT	7.1
Copper	2,500	76,000	NA	NT	75	NT	NT	NT	10
Lead	500	1,000	NA	NT	86	NT	NT	NT	13
Mercury	20	610	NA	NT	0.34	NT	NT	NT	ND<0.20
Nickel	1,400	7,500	NA	NT	4.6	NT	NT	NT	4.1
Selenium	340	10,000	NA	NT	1.5	NT	NT	NT	ND<1.0

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-HHHHH (0.0-0.3)	TB-HHHHH (0.5-2.5)	TB-HHHHH (2.5-4.5)	TB-IIIII (0.0-0.3)	TB-JJJJJ (0.0-0.3)	TB-JJJJJ (0.3-2.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)									
Silver	340	10,000	NA	NT	ND<2.0	NT	NT	NT	ND<2.0
Thallium	5.4	160	NA	NT	42	NT	NT	NT	4.8
Vanadium	470	14,000	NA	NT	44	NT	NT	NT	18
Zinc	20,000	610,000	NA	NT	14	NT	NT	NT	14
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	ND<50	NT	NT	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)			
	Residential	Industrial/ Commercial	GB Area	TB-JJJJ (2.3-4.3)	TB-KKKK (0.0-0.3)	TB-KKKK (1-2)	TB-KKKK (4-5)
Depth Below Grade (ft.)							
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)							
Acenaphthene	1,000	2,500	84	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	0.50	NT	NT	NT
Anthracene	1,000	2,500	400	0.22	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	1.1	NT	NT	NT
Benzo[a]pyrene	1	1	1	1.9	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	2.6	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	0.96	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	1.2	NT	NT	NT
Chrysene	84	780	1	1.3	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	0.22	NT	NT	NT
Fluoranthene	1,000	2,500	56	1.8	NT	NT	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	1.0	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	0.72	NT	NT	NT
Pyrene	1,000	2,500	40	2.0	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)							
Ethylbenzene	500	1,000	10.1	ND<0.25	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.25	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.25	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.25	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.25	NT	NT	NT
Tetrachloroethene	12	110	1	ND<0.25	NT	NT	NT
Toluene	500	1,000	67	ND<0.25	NT	NT	NT
Trichloroethene	56	520	1.0	ND<0.25	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.25	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.25	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.25	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.25	NT	NT	NT

Table AOC-12.2
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)			
	Residential	Industrial/ Commercial	GB Area	TB-JJJJ (2.3-4.3)	TB-KKKK (0.0-0.3)	TB-KKKK (1-2)	TB-KKKK (4-5)
Depth Below Grade (ft.)				4/5/2002	4/5/2002	4/5/2002	4/5/2002
Sample Collection Date							
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)							
PCB-1242	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1248	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1254	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Cyanide (total)	1,400	41,000	NA	NT	NT	NT	NT
SPLP Metals							
Antimony	NA	NA	0.06	ND<0.006	NT	NT	NT
Arsenic	NA	NA	0.5	ND<0.05	NT	NT	NT
Barium	NA	NA	10	0.43	NT	NT	NT
Copper	NA	NA	13	ND<0.04	NT	NT	NT
Lead	NA	NA	0.15	ND<0.013	NT	NT	NT
Mercury	NA	NA	0.02	ND<0.002	NT	NT	NT
Nickel	NA	NA	1.0	ND<0.05	NT	NT	NT
Selenium	NA	NA	0.50	ND<0.01	NT	NT	NT
Thallium	NA	NA	0.05	ND<0.005	NT	NT	NT
Vanadium	NA	NA	0.50	ND<0.05	NT	NT	NT
Zinc	NA	NA	50	0.34	NT	NT	NT
Total Metals							
Antimony	27	8,200	NA	ND<2.0	NT	NT	NT
Arsenic	10	10	NA	ND<1.0	NT	NT	NT
Barium	4,700	140,000	NA	36	NT	NT	NT
Beryllium	2	2	NA	ND<1.0	NT	NT	NT
Cadmium	34	1,000	NA	0.71	NT	NT	NT
Chromium	100*	100*	NA	6.8	NT	NT	NT
Copper	2,500	76,000	NA	13	NT	NT	NT
Lead	500	1,000	NA	17	NT	NT	NT
Mercury	20	610	NA	ND<0.20	NT	NT	NT
Nickel	1,400	7,500	NA	5.3	NT	NT	NT
Selenium	340	10,000	NA	ND<1.0	NT	NT	NT

Table AOC-12.2

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)			
	Residential	Industrial/ Commercial	GB Area	TB-JJJJJ (2.3-4.3)	TB-KKKKK (0.0-0.3)	TB-KKKKK (1-2)	TB-KKKKK (4-5)
Depth Below Grade (ft.)							
Sample Collection Date				4/5/2002	4/5/2002	4/5/2002	4/5/2002
Total Metals (Cont'd)							
Silver	340	10,000	NA	ND<2.0	NT	NT	NT
Thallium	5.4	160	NA	4.2	NT	NT	NT
Vanadium	470	14,000	NA	16	NT	NT	NT
Zinc	20,000	610,000	NA	17	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- (1) = Not enough residual sample to analyze for leachable (SPLP) PCBs. Additional sample was collected for SPLP PCB testing on May 8, 2002. SPLP PCBs were not detected above the laboratory minimum detection limit.
- (2) = Sample also tested for leachable (SPLP) PCBs. None detected above laboratory minimum detection limit.
- (3) = Sample also tested for hexavalent chromium. None detected above laboratory minimum detection limit.
- (4) = Submitted as a Quality Control (QC) duplicate sample.
- = Concentration exceeds associated criterion.

Table AOC-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	SS-AA (0.0-0.3)	SS-AA (0.3-1.3)	SS-BB (0.0-0.3)	SS-BB (0.3-1.3)	SS-CC (0.0-0.3)	SS-CC (0.3-1.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/3/02	4/3/02	4/3/02
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<1.0
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<1.0
Anthracene	1,000	2,500	400	NT	ND<0.20	NT	NT	NT	ND<1.0
Benzo[a]anthracene	1	7.8	1	NT	0.82	NT	NT	NT	1.3
Benzo[a]pyrene	1	1	1	NT	1.0	NT	NT	NT	1.6
Benzo[b]fluoranthene	1	7.8	1	NT	1.5	NT	NT	NT	2.0
Benzo[g,h,i]perylene	1,000	2,500	42	NT	0.47	NT	NT	NT	1.5
Benzo[k]fluoranthene	8.4	78	1	NT	0.61	NT	NT	NT	ND<1.0
Chrysene	84	780	1	NT	0.80	NT	NT	NT	1.8
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	NT	NT	NT	ND<1.0
Fluoranthene	1,000	2,500	56	NT	1.1	NT	NT	NT	2.2
Fluorene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<1.0
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	0.59	NT	NT	NT	1.4
Naphthalene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<1.0
Phenanthrene	1,000	2,500	40	NT	0.59	NT	NT	NT	2.0
Pyrene	1,000	2,500	40	NT	1.1	NT	NT	NT	2.3
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50 ⁽¹⁾	0.83 ⁽¹⁾	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table AOC-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	SS-AA	SS-AA	SS-BB	SS-BB	SS-CC	SS-CC
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-1.3)	(0.0-0.3)	(0.3-1.3)	(0.0-0.3)	(0.3-1.3)
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/3/02	4/3/02	4/3/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	ND<0.25	NT	NT	NT	ND<1.3
Isopropylbenzene	500	1,000	132	NT	ND<0.25	NT	NT	NT	ND<1.3
Naphthalene	1,000	2,500	56	NT	ND<0.25	NT	NT	NT	ND<1.3
n-Propylbenzene	500	1,000	14	NT	ND<0.25	NT	NT	NT	ND<1.3
Toluene	500	1,000	67	NT	ND<0.25	NT	NT	NT	ND<1.3
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.25	NT	NT	NT	ND<1.3
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.25	NT	NT	NT	ND<1.3
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.25	NT	NT	NT	ND<1.3
Xylenes (total)	500	1,000	19.5	NT	ND<0.25	NT	NT	NT	ND<1.3
SPLP Metals									
Arsenic	NA	NA	0.5	NT	ND<0.05	NT	NT	NT	ND<0.05
Barium	NA	NA	10	NT	0.17	NT	NT	NT	0.25
Copper	NA	NA	13	NT	ND<0.04	NT	NT	NT	ND<0.04
Lead	NA	NA	0.15	NT	0.035	NT	NT	NT	ND<0.013
Mercury	NA	NA	0.02	NT	ND<0.002	NT	NT	NT	ND<0.002
Selenium	NA	NA	0.5	NT	ND<0.01	NT	NT	NT	ND<0.01
Vanadium	NA	NA	0.5	NT	0.055	NT	NT	NT	ND<0.05
Zinc	NA	NA	50	NT	0.21	NT	NT	NT	0.26

Table AOC-12.3

Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	SS-AA	SS-AA	SS-BB	SS-BB	SS-CC	SS-CC
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-1.3)	(0.0-0.3)	(0.3-1.3)	(0.0-0.3)	(0.3-1.3)
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/3/02	4/3/02	4/3/02
Total Metals								NT	
Antimony	27	8,200	NA	NT	ND<2.0	NT	NT	NT	ND<2.0
Arsenic	10	10	NA	NT	22	NT	NT	NT	14
Barium	4,700	140,000	NA	NT	43	NT	NT	NT	58
Beryllium	2	2	NA	NT	ND<1.0	NT	NT	NT	ND<1.0
Cadmium	34	1,000	NA	NT	2.5	NT	NT	NT	1.4
Chromium	100*	100*	NA	NT	7.1	NT	NT	NT	12
Copper	2,500	76,000	NA	NT	95	NT	NT	NT	110
Lead	500	1,000	NA	NT	170	NT	NT	NT	160
Mercury	20	610	NA	NT	0.24	NT	NT	NT	ND<0.20
Nickel	1,400	7,500	NA	NT	28	NT	NT	NT	18
Selenium	340	10,000	NA	NT	ND<1.0	NT	NT	NT	1.1
Silver	340	10,000	NA	NT	ND<2.0	NT	NT	NT	ND<2.0
Thallium	5.4	160	NA	NT	14	NT	NT	NT	4.3
Vanadium	470	14,000	NA	NT	180	NT	NT	NT	32
Zinc	20,000	610,000	NA	NT	170	NT	NT	NT	73
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	ND<50	NT	NT	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Sample also tested for leachable (SPLP) PCBs. SPLP PCBs were not detected above laboratory minimum detection limit.
- ☐ = Concentration exceeds associated criterion.

Table AOC-12.3

Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	SS-DD (0.0-0.3)	SS-DD (0.3-1.3)	SS-EE (0.0-0.3)	SS-EE (0.3-1.3)	SS-FF (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/3/02	4/3/02	4/3/02
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	0.71	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	NT	NT	0.24	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	NT	NT	1.6	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	26	NT	1.2
Benzo[a]pyrene	1	1	1	NT	NT	NT	46	NT	1.3
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	110	NT	2.5
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	7.2	NT	0.45
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	66	NT	1.1
Chrysene	84	780	1	NT	NT	NT	33	NT	1.8
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	3.5	NT	0.20
Fluoranthene	1,000	2,500	56	NT	NT	NT	95	NT	1.7
Fluorene	1,000	2,500	56	NT	NT	NT	0.43	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	11	NT	0.50
Naphthalene	1,000	2,500	56	NT	NT	NT	0.51	NT	0.29
Phenanthrene	1,000	2,500	40	NT	NT	NT	47	NT	1.7
Pyrene	1,000	2,500	40	NT	NT	NT	85	NT	2.2
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.80 ⁽¹⁾	ND<0.50

Table AOC-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	SS-DD (0.0-0.3) 4/3/02	SS-DD (0.3-1.3) 4/3/02	SS-EE (0.0-0.3) 4/3/02	SS-EE (0.3-1.3) 4/3/02	SS-FF (0.0-0.3) 4/3/02
Depth Below Grade (ft.)									
Sample Collection Date									
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.005	NT	ND<0.25
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.005	NT	ND<0.25
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.005	NT	ND<0.25
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.005	NT	ND<0.25
Toluene	500	1,000	67	NT	NT	NT	ND<0.005	NT	ND<0.25
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.005	NT	ND<0.25
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT	ND<0.25
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT	ND<0.25
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.005	NT	ND<0.25
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	NT	ND<0.05
Barium	NA	NA	10	NT	NT	NT	0.73	NT	0.27
Copper	NA	NA	13	NT	NT	NT	ND<0.04	NT	ND<0.04
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	NT	ND<0.013
Mercury	NA	NA	0.02	NT	NT	NT	ND<0.002	NT	ND<0.002
Selenium	NA	NA	0.5	NT	NT	NT	ND<0.01	NT	ND<0.01
Vanadium	NA	NA	0.5	NT	NT	NT	ND<0.05	NT	ND<0.05
Zinc	NA	NA	50	NT	NT	NT	0.41	NT	0.31


Table AOC-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	SS-DD (0.0-0.3)	SS-DD (0.3-1.3)	SS-EE (0.0-0.3)	SS-EE (0.3-1.3)	SS-FF (0.0-0.3)
Depth Below Grade (ft.)									
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/3/02	4/3/02	4/3/02
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	NT	ND<2.0
Arsenic	10	10	NA	NT	NT	NT	1.7	NT	20
Barium	4,700	140,000	NA	NT	NT	NT	35	NT	52
Beryllium	2	2	NA	NT	NT	NT	ND<1.0	NT	ND<1.0
Cadmium	34	1,000	NA	NT	NT	NT	1.1	NT	1.3
Chromium	100*	100*	NA	NT	NT	NT	7.0	NT	8.2
Copper	2,500	76,000	NA	NT	NT	NT	45	NT	130
Lead	500	1,000	NA	NT	NT	NT	29	NT	140
Mercury	20	610	NA	NT	NT	NT	ND<0.20	NT	ND<0.20
Nickel	1,400	7,500	NA	NT	NT	NT	9.0	NT	20
Selenium	340	10,000	NA	NT	NT	NT	ND<1.0	NT	2.2
Silver	340	10,000	NA	NT	NT	NT	ND<2.0	NT	ND<2.0
Thallium	5.4	160	NA	NT	NT	NT	8.5	NT	7.5
Vanadium	470	14,000	NA	NT	NT	NT	41	NT	130
Zinc	20,000	610,000	NA	NT	NT	NT	37	NT	36
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	480	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Sample also tested for leachable (SPLP) PCBs. SPLP PCBs were not detected above laboratory minimum detection limit.
- = Concentration exceeds associated criterion.

Table C-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	SS-GG	SS-HH	SS-II	SS-JJ	SS-KK
Depth Below Grade (ft.)				(1.0-1.5)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/3/02	4/3/02	4/3/02
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	1.1	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	1.7	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	8.8	NT	ND<0.20	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	11	NT	0.77	NT	NT	NT
Benzo[a]pyrene	1	1	1	13	NT	1.1	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	21	NT	1.9	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	2.8	NT	0.42	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	6.7	NT	0.82	NT	NT	NT
Chrysene	84	780	1	9.9	NT	1.2	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	1.2	NT	ND<0.20	NT	NT	NT
Fluoranthene	1,000	2,500	56	37	NT	1.4	NT	NT	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	3.4	NT	0.48	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	42	NT	1.3	NT	NT	NT
Pyrene	1,000	2,500	40	28	NT	1.7	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.83 ⁽¹⁾	ND<0.50

Table AOC-12.3

Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	SS-GG	SS-HH	SS-II	SS-JJ	SS-KK	SS-LL
Depth Below Grade (ft.)				(1.0-1.5)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/3/02	4/3/02	4/3/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Ethylbenzene	500	1,000	10.1	ND<0.005	NT	0.015	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.005	NT	ND<0.005	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.005	NT	ND<0.005	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.005	NT	ND<0.005	NT	NT	NT
Toluene	500	1,000	67	ND<0.005	NT	0.049	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.005	NT	ND<0.005	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	NT	ND<0.005	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	NT	ND<0.005	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.005	NT	0.095	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	ND<0.05	NT	ND<0.05	NT	NT	NT
Barium	NA	NA	10	0.25	NT	0.38	NT	NT	NT
Copper	NA	NA	13	ND<0.04	NT	ND<0.04	NT	NT	NT
Lead	NA	NA	0.15	ND<0.013	NT	0.076	NT	NT	NT
Mercury	NA	NA	0.02	ND<0.002	NT	ND<0.002	NT	NT	NT
Selenium	NA	NA	0.5	ND<0.01	NT	ND<0.01	NT	NT	NT
Vanadium	NA	NA	0.5	ND<0.05	NT	ND<0.05	NT	NT	NT
Zinc	NA	NA	50	0.24	NT	0.28	NT	NT	NT

Table AOC-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	SS-GG	SS-HH	SS-II	SS-JJ	SS-KK
Depth Below Grade (ft.)				(1.0-1.5)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/3/02	4/3/02	4/3/02
Total Metals									
Antimony	27	8,200	NA	2.5	NT	ND<2.0	NT	NT	NT
Arsenic	10	10	NA	33	NT	9.3	NT	NT	NT
Barium	4,700	140,000	NA	85	NT	35	NT	NT	NT
Beryllium	2	2	NA	ND<1.0	NT	ND<1.0	NT	NT	NT
Cadmium	34	1,000	NA	2.6	NT	3.9	NT	NT	NT
Chromium	100*	100*	NA	12	NT	17	NT	NT	NT
Copper	2,500	76,000	NA	110	NT	95	NT	NT	NT
Lead	500	1,000	NA	430	NT	410	NT	NT	NT
Mercury	20	610	NA	3.1	NT	ND<0.20	NT	NT	NT
Nickel	1,400	7,500	NA	18	NT	19	NT	NT	NT
Selenium	340	10,000	NA	ND<1.0	NT	ND<1.0	NT	NT	NT
Silver	340	10,000	NA	ND<2.0	NT	ND<2.0	NT	NT	NT
Thallium	5.4	160	NA	18	NT	22	NT	NT	NT
Vanadium	470	14,000	NA	29	NT	92	NT	NT	NT
Zinc	20,000	610,000	NA	62	NT	43	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	70	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Sample also tested for leachable (SPLP) PCBs. SPLP PCBs were not detected above laboratory minimum detection limit.
- = Concentration exceeds associated criterion.

ADVANCED ENVIRONMENTAL INTERFACE, INC.

AEI-00T-030a

Table AOC-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	SS-MM	SS-NN	SS-OO	SS-PP	SS-PP
Depth Below Grade (ft.)				(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(1.0-1.3)
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/4/02	4/4/02
USEPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20
Anthracene	1,000	2,500	400	0.25	ND<0.20	ND<0.20	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	0.70	0.32	ND<0.20	NT	1.3
Benzo[a]pyrene	1	1	1	0.92	0.59	0.23	NT	1.6
Benzo[b]fluoranthene	1	7.8	1	1.7	0.87	0.33	NT	2.8
Benzo[g,h,i]perylene	1,000	2,500	42	0.62	ND<0.20	0.21	NT	0.69
Benzo[k]fluoranthene	8.4	78	1	0.77	0.28	ND<0.20	NT	1.2
Chrysene	84	780	1	0.96	0.64	0.20	NT	1.9
Dibenz[a,h]anthracene	1	1	1	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20
Fluoranthene	1,000	2,500	56	1.4	0.42	0.37	NT	2.6
Fluorene	1,000	2,500	56	ND<0.20	ND<0.20	ND<0.20	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.65	ND<0.20	0.25	NT	0.89
Naphthalene	1,000	2,500	56	0.37	0.36	ND<0.20	NT	ND<0.20
Phenanthrene	1,000	2,500	40	0.78	0.89	0.25	NT	1.3
Pyrene	1,000	2,500	40	1.3	0.41	0.31	NT	2.5
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table C-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	SS-MM	SS-NN	SS-OO	SS-PP	SS-PP
Depth Below Grade (ft.)				(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(1.0-1.3)
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/4/02	4/4/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Ethylbenzene	500	1,000	10.1	ND<0.25	ND<0.25	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.25	ND<0.25	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.25	ND<0.25	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.25	ND<0.25	NT	NT	NT
Toluene	500	1,000	67	ND<0.25	ND<0.25	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.25	ND<0.25	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.25	ND<0.25	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.25	ND<0.25	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.25	ND<0.25	NT	NT	NT
SPLP Metals								
Arsenic	NA	NA	0.5	ND<0.05	ND<0.05	ND<0.05	NT	ND<0.05
Barium	NA	NA	10	0.30	0.35	0.28	NT	0.26
Copper	NA	NA	13	ND<0.04	ND<0.04	ND<0.04	NT	ND<0.04
Lead	NA	NA	0.15	0.029	ND<0.013	ND<0.013	NT	0.065
Mercury	NA	NA	0.02	ND<0.002	ND<0.002	ND<0.002	NT	ND<0.002
Selenium	NA	NA	0.5	ND<0.01	ND<0.01	ND<0.01	NT	ND<0.01
Vanadium	NA	NA	0.5	ND<0.05	ND<0.05	ND<0.05	NT	ND<0.005
Zinc	NA	NA	50	0.18	0.14	0.17	NT	0.24

Table AOC-12.3
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	SS-MM	SS-NN	SS-OO	SS-PP
Depth Below Grade (ft.)				(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(0.0-0.3)	(1.0-1.3)
Sample Collection Date				4/3/02	4/3/02	4/3/02	4/4/02	4/4/02
Total Metals								
Antimony	27	8,200	NA	ND<2.0	ND<2.0	ND<2.0	NT	ND<2.0
Arsenic	10	10	NA	16	20	10	NT	29
Barium	4,700	140,000	NA	32	40	33	NT	55
Beryllium	2	2	NA	ND<1.0	ND<1.0	ND<1.0	NT	ND<1.0
Cadmium	34	1,000	NA	2.0	0.75	0.90	NT	1.8
Chromium	100*	100*	NA	13	3.9	3.7	NT	8.0
Copper	2,500	76,000	NA	200	41	24	NT	50
Lead	500	1,000	NA	210	60	46	NT	160
Mercury	20	610	NA	0.65	ND<0.20	ND<0.20	NT	ND<0.20
Nickel	1,400	7,500	NA	11	3.5	3.7	NT	11
Selenium	340	10,000	NA	ND<1.0	2.4	2.0	NT	1.0
Silver	340	10,000	NA	ND<2.0	ND<2.0	ND<2.0	NT	ND<2.0
Thallium	5.4	160	NA	9.1	5.7	3.5	NT	8.8
Vanadium	470	14,000	NA	35	40	12	NT	58
Zinc	20,000	610,000	NA	130	8.5	16	NT	62
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	240	ND<50	NT	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leaching Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- (1) = Sample also tested for leachable (SPLP) PCBs. SPLP PCBs were not detected above laboratory minimum detection limit.
- ☐ = Concentration exceeds associated criterion.

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-DDD (5-7)	TB-FFF (5-7)	TB-LLLLL (0.0-0.3)	TB-LLLLL (0.3-1.3)	TB-LLLLL (1.3-2.3)	TB-LLLLL (2.3-4.3)
Depth Below Grade (ft.)										
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<1.0	2.0	0.21	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<1.0	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	NT	ND<1.0	2.2	0.27	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	ND<1.0	8.5	1.6	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	ND<1.0	8.2	1.5	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	ND<1.0	11	1.9	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	ND<1.0	6.8	1.2	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	ND<1.0	3.3	0.77	NT
Chrysene	84	780	1	NT	NT	NT	ND<1.0	9.5	1.7	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<1.0	1.8	0.33	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	ND<1.0	16	3.1	NT
Fluorene	1,000	2,500	56	NT	NT	NT	ND<1.0	1.1	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	ND<1.0	7.5	1.3	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<1.0	0.89	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	ND<1.0	11	2.1	NT
Pyrene	1,000	2,500	40	NT	NT	NT	ND<1.0	14	2.7	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Benzene	21	200	0.2	NT	0.05	NT	ND<0.001	NT	NT	NT
sec-Butylbenzene	500	1,000	14	NT	0.90	NT	ND<0.005	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	3.1	NT	ND<0.005	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	1.8	NT	ND<0.005	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	2.6	NT	ND<0.005	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	3.0	NT	ND<0.005	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	3.6	NT	ND<0.005	NT	NT	NT
Tetrachloroethene	12	110	1	NT	ND<0.25	NT	ND<0.005	NT	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial	GB Area	TB-DDD	TB-FFF	TB-LLLLL	TB-LLLLL	TB-LLLLL	TB-LLLLL	TB-LLLLL
Depth Below Grade (ft.)				(5-7)	(5-7)	(0.0-0.3)	(0.3-1.3)	(1.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Toluene	500	1,000	67	NT	ND<0.25	NT	ND<0.005	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.25	NT	ND<0.005	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	25	NT	ND<0.005	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	32	NT	ND<0.005	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	11.7	NT	ND<0.005	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1260	1	10	NA	0.56	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082										
PCB-1260	NA	NA	0.005	ND<0.0005	NT	NT	NT	NT	NT	NT
SPLP Metals										
Arsenic	NA	NA	0.5	NT	NT	NT	NT	ND<0.004	ND<0.004	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	0.82	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	ND<0.013	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	0.41	NT
Total Metals										
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	ND<2.0	NT
Arsenic	10	10	NA	11	9.2	1.0	1.5	1.2	1.2	ND<1.0
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	32	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	10	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	47	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	51	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	ND<0.20	NT

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-DDD	TB-FFF	TB-L1111	TB-L1111	TB-L1111	TB-L1111
Depth Below Grade (ft.)				(5-7)	(5-7)	(0.0-0.3)	(0.3-1.3)	(1.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
Total Metals										
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	10	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	ND<1.0	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	43	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	58	NT
Cyanide (Total)	1,400	41,000	NA	NT	ND<5.0	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.


Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-LLLLL	TB-LLLLL	TB-MMMMM	TB-MMMMM	TB-MMMMM	TB-MMMMM
Depth Below Grade (ft.)				(15-17)	(20-22)	(0.0-0.3)	(0.3-1.3)	(1.3-2.3)	(2.3-4.3)
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	NT	NT	ND<0.20	NT	0.21
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	0.49	NT	0.62
Benzo[a]pyrene	1	1	1	NT	NT	NT	0.54	NT	0.64
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	0.64	NT	0.82
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	0.46	NT	0.57
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	0.26	NT	0.32
Chrysene	84	780	1	NT	NT	NT	0.56	NT	0.80
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<0.20	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	NT	NT	0.82	NT	1.4
Fluorene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	0.48	NT	0.60
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	NT	NT	0.27	NT	1.1
Pyrene	1,000	2,500	40	NT	NT	NT	0.79	NT	1.2
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	NT	NT	NT	NT	ND<0.001	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.005	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	ND<0.005	NT

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-LLLLL (15-17)	TB-LLLLL (20-22)	TB-MMMMM (0.0-0.3)	TB-MMMMM (0.3-1.3)	TB-MMMMM (1.3-2.3)
Depth Below Grade (ft.)									
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	NT	NT	NT	NT	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	ND<0.005	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	NT	ND<0.004	ND<0.004
Barium	NA	NA	10	NT	NT	NT	NT	1.0	1.0
Copper	NA	NA	13	NT	NT	NT	NT	ND<0.04	ND<0.04
Lead	NA	NA	0.15	NT	NT	NT	NT	ND<0.013	ND<0.013
Thallium	NA	NA	0.05	NT	NT	NT	NT	ND<0.005	ND<0.005
Vanadium	NA	NA	0.50	NT	NT	NT	NT	ND<0.05	ND<0.05
Zinc	NA	NA	50	NT	NT	NT	NT	0.56	0.52
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	ND<2.0	ND<2.0
Arsenic	10	10	NA	ND<1.0	3.2	NT	ND<1.0	1.3	ND<1.0
Barium	4,700	140,000	NA	NT	NT	NT	NT	29	18
Chromium	100*	100*	NA	NT	NT	NT	NT	7.7	3.9
Copper	2,500	76,000	NA	NT	NT	NT	NT	39	45
Lead	500	1,000	NA	NT	NT	NT	NT	20	12
Mercury	20	610	NA	NT	NT	NT	NT	ND<0.20	ND<0.20

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-LLLLL (15-17)	TB-LLLLL (20-22)	TB-MMMMM (0.0-0.3)	TB-MMMMM (0.3-1.3)	TB-MMMMM (1.3-2.3)
Depth Below Grade (ft.)									
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
Total Metals									
Nickel	1,400	7,500	NA	NT	NT	NT	NT	8.6	7.0
Selenium	340	10,000	NA	NT	NT	NT	NT	ND<1.0	ND<1.0
Vanadium	470	14,000	NA	NT	NT	NT	NT	49	65
Zinc	20,000	610,000	NA	NT	NT	NT	NT	33	35
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	ND<50	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-MMMMM	TB-MMMMM	TB-MMMMM	TB-NNNNN	TB-NNNNN	TB-NNNNN
Depth Below Grade (ft.)				(5-7)	(10-12)	(20-22)	(0.0-0.3)	(0.3-1.3)	(1.3-2.3)
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	ND<0.20	NT	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Benzo[a]pyrene	1	1	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Benzo[g,h,i]perylene	1,000	2,500	42	NT	ND<0.20	NT	NT	NT	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Chrysene	84	780	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Fluorene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Naphthalene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	ND<0.20	NT	NT	NT	ND<0.20
Pyrene	1,000	2,500	40	NT	ND<0.20	NT	NT	NT	ND<0.20
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-MMMMM (5-7)	TB-MMMMM (10-12)	TB-MMMMM (20-22)	TB-NNNNN (0.0-0.3)	TB-NNNNN (0.3-1.3)	TB-NNNNN (1.3-2.3)
Depth Below Grade (ft.)									
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	1.2	ND<1.0	3.0	NT	NT	ND<1.0
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT

**Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-MMMMM (5-7)	TB-MMMMM (10-12)	TB-MMMMM (20-22)	TB-NNNNN (0.0-0.3)	TB-NNNNN (0.3-1.3)
Depth Below Grade (ft.)				(5-7)	(10-12)	(20-22)	(0.0-0.3)	(0.3-1.3)	(1.3-2.3)
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
Total Metals									
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-NNNNN (2.3-4.3)	TB-NNNNN (5-7)	TB-OOOOO (0.0-0.3)	TB-OOOOO (0.3-1.3)	TB-OOOOO (1.3-2.3)
Depth Below Grade (ft.)									
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	NT	NT	0.45	ND<1.0
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	NT	NT	ND<0.20	ND<1.0
Anthracene	1,000	2,500	400	ND<0.20	NT	NT	NT	1.9	ND<1.0
Benzo[a]anthracene	1	7.8	1	ND<0.20	NT	NT	NT	3.5	1.3
Benzo[a]pyrene	1	1	1	ND<0.20	NT	NT	NT	3.2	1.8
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	NT	NT	NT	3.8	2.1
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	NT	NT	NT	2.9	1.9
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	NT	NT	1.4	ND<1.0
Chrysene	84	780	1	ND<0.20	NT	NT	NT	3.7	1.6
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	NT	NT	0.67	ND<1.0
Fluoranthene	1,000	2,500	56	0.25	NT	NT	NT	7.5	2.2
Fluorene	1,000	2,500	56	ND<0.20	NT	NT	NT	0.52	ND<1.0
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	NT	NT	NT	3.0	1.9
Naphthalene	1,000	2,500	56	ND<0.20	NT	NT	NT	ND<0.20	ND<1.0
Phenanthrene	1,000	2,500	40	ND<0.20	NT	NT	NT	6.2	ND<1.0
Pyrene	1,000	2,500	40	0.23	NT	NT	NT	6.1	2.4
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	NT	NT	NT	NT	NT	ND<0.001
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	ND<0.005
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	ND<0.005
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	ND<0.005
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.005
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	ND<0.005
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	ND<0.005

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-NNNNN (2.3-4.3)	TB-NNNNN (5-7)	TB-00000 (0.0-0.3)	TB-00000 (0.3-1.3)	TB-00000 (1.3-2.3)	TB-00000 (2.3-4.3)
Depth Below Grade (ft.)									
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	NT	NT	NT	NT	NT	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	ND<0.005
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	ND<0.005
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.004	ND<0.004	0.02
Barium	NA	NA	10	NT	NT	NT	0.34	0.26	0.96
Copper	NA	NA	13	NT	NT	NT	0.087	ND<0.04	ND<0.04
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	ND<0.013	0.039
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	ND<0.005	ND<0.005
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	ND<0.05	1.5
Zinc	NA	NA	50	NT	NT	NT	0.18	0.11	0.47
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	ND<2.0	ND<2.0
Arsenic	10	10	NA	ND<1.0	1.9	NT	ND<1.0	ND<1.0	5.8
Barium	4,700	140,000	NA	NT	NT	NT	21	20	23
Chromium	100*	100*	NA	NT	NT	NT	6.5	5.7	7.5
Copper	2,500	76,000	NA	NT	NT	NT	37	21	44
Lead	500	1,000	NA	NT	NT	NT	7.9	18	18
Mercury	20	610	NA	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20

**Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-NNNNN (2.3-4.3)	TB-NNNNN (5-7)	TB-00000 (0.0-0.3)	TB-00000 (0.3-1.3)	TB-00000 (1.3-2.3)	TB-00000 (2.3-4.3)
Depth Below Grade (ft.)										
Sampling Date				7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02	7/18/02
Total Metals										
Nickel	1,400	7,500	NA	NT	NT	NT	10	6.3	21	
Selenium	340	10,000	NA	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	
Vanadium	470	14,000	NA	NT	NT	NT	52	28	220	
Zinc	20,000	610,000	NA	NT	NT	NT	19	19	31	
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT	ND<5.0	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	NT	NT	NT	167	

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

III II
Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-00000 (5-7)	TB-00000 (10-12)	TB-00000 (15-16)	TB-PPPPP/ MW-N (0.0-0.3)	TB-PPPPP/ MW-N (0.3-1.3)
Depth Below Grade (ft.)				(5-7)	(10-12)	(15-16)	(0.0-0.3)	(0.3-1.3)	(2.3-4.3)
Sampling Date				7/18/02	7/18/02	7/18/02	7/19/02	7/19/02	7/19/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<1.0	ND<1.0	ND<1.0	NT	ND<0.20	ND<0.20
Acenaphthylene	1,000	2,500	84	1.5	ND<1.0	ND<1.0	NT	ND<0.20	ND<0.20
Anthracene	1,000	2,500	400	1.1	1.0	ND<1.0	NT	ND<0.20	ND<0.20
Benzo[a]anthracene	1	7.8	1	2.9	5.3	ND<1.0	NT	0.50	0.61
Benzo[a]pyrene	1	1	1	3.8	7.2	ND<1.0	NT	0.64	0.88
Benzo[b]fluoranthene	1	7.8	1	3.5	7.3	ND<1.0	NT	0.80	1.1
Benzo[g,h,i]perylene	1,000	2,500	42	3.4	4.2	ND<1.0	NT	0.39	0.52
Benzo[k]fluoranthene	8.4	78	1	1.9	3.6	ND<1.0	NT	0.36	0.47
Chrysene	84	780	1	3.8	5.3	ND<1.0	NT	0.52	0.72
Dibenz[a,h]anthracene	1	1	1	ND<1.0	1.1	ND<1.0	NT	ND<0.20	ND<0.20
Fluoranthene	1,000	2,500	56	3.2	6.9	1.2	NT	0.85	1.2
Fluorene	1,000	2,500	56	ND<1.0	ND<1.0	ND<1.0	NT	ND<0.20	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	2.8	4.8	ND<1.0	NT	0.37	0.55
Naphthalene	1,000	2,500	56	ND<1.0	ND<1.0	ND<1.0	NT	ND<0.20	ND<0.20
Phenanthrene	1,000	2,500	40	1.1	2.5	ND<1.0	NT	0.32	0.44
Pyrene	1,000	2,500	40	6.8	16	2.9	NT	0.88	1.1
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	ND<0.001	ND<0.001	ND<0.001	NT	NT	NT
sec-Butylbenzene	500	1,000	14	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
Ethylbenzene	500	1,000	10.1	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
Tetrachloroethene	12	110	1	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-00000 (5-7)	TB-00000 (10-12)	TB-00000 (15-16)	TB-PPPPP/ MW-N (0.0-0.3)	TB-PPPPP/ MW-N (0.3-1.3)	TB-PPPPP/ MW-N (2.3-4.3)
Depth Below Grade (ft.)				(5-7)	(10-12)	(15-16)	(0.0-0.3)	(0.3-1.3)	(2.3-4.3)
Sampling Date				7/18/02	7/18/02	7/18/02	7/19/02	7/19/02	7/19/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.005	ND<0.005	ND<0.005	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	9.7	0.71	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	ND<0.004
Barium	NA	NA	10	NT	NT	NT	NT	NT	0.45
Copper	NA	NA	13	NT	NT	NT	NT	NT	ND<0.04
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	ND<0.013
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	ND<0.005
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	ND<0.05
Zinc	NA	NA	50	NT	NT	NT	NT	NT	0.22
Total Metals									
Antimony	27	8,200	NA	ND<2.0	NT	NT	NT	NT	2.5
Arsenic	10	10	NA	3.1	1.0	NT	NT	1.5	8.3
Barium	4,700	140,000	NA	8.0	NT	NT	NT	NT	61
Chromium	100*	100*	NA	5.2	NT	NT	NT	NT	9.5
Copper	2,500	76,000	NA	46	NT	NT	NT	NT	76
Lead	500	1,000	NA	35	NT	NT	NT	NT	170
Mercury	20	610	NA	ND<0.20	NT	NT	NT	NT	0.30

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-00000 (5-7)	TB-00000 (10-12)	TB-00000 (15-16)	TB-PPPPP/ MW-N (0.0-0.3)	TB-PPPPP/ MW-N (0.3-1.3)
Depth Below Grade (ft.)				(5-7)	(10-12)	(15-16)	(0.0-0.3)	(0.3-1.3)	(2.3-4.3)
Sampling Date				7/18/02	7/18/02	7/18/02	7/19/02	7/19/02	7/19/02
Total Metals									
Nickel	1,400	7,500	NA	7.9	NT	NT	NT	NT	6.8
Selenium	340	10,000	NA	ND<1.0	NT	NT	NT	NT	ND<1.0
Vanadium	470	14,000	NA	130	NT	NT	NT	NT	14
Zinc	20,000	610,000	NA	34	NT	NT	NT	NT	130
Cyanide (Total)	1,400	41,000	NA	ND<5.0	ND<5.0	ND<5.0	NT	NT	ND<5.0
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	1,860	553	NT	NT	NT	116

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-PPPPP/ MW-N (5-7)	TB-PPPPP/ MW-N (10-12)	TB-PPPPP/ MW-N (15-17)	TB-PPPPP/ MW-N (20-22)	TB-PPPPP/ MW-N (25-27)
Depth Below Grade (ft.)				(5-7)	(10-12)	(15-17)	(20-22)	(25-27)	(0.0-0.3)
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	6.8	1.6	1.3	NT	NT	NT
Acenaphthylene	1,000	2,500	84	5.5	5.0	2.4	NT	NT	NT
Anthracene	1,000	2,500	400	31	12	7.2	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	63	23	14	NT	NT	NT
Benzo[a]pyrene	1	1	1	56	25	15	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	65	29	19	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	27	12	6.7	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	36	14	8.5	NT	NT	NT
Chrysene	84	780	1	56	22	14	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	9.2	1.2	1.9	NT	NT	NT
Fluoranthene	1,000	2,500	56	130	59	37	NT	NT	NT
Fluorene	1,000	2,500	56	13	4.4	2.8	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	33	14	7.9	NT	NT	NT
Naphthalene	1,000	2,500	56	5.9	3.6	2.2	NT	NT	NT
Phenanthrene	1,000	2,500	40	110	49	30	NT	NT	NT
Pyrene	1,000	2,500	40	100	49	30	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	ND<0.001	NT	ND<0.001	NT	NT	NT
sec-Butylbenzene	500	1,000	14	ND<0.005	NT	ND<0.005	NT	NT	NT
Ethylbenzene	500	1,000	10.1	ND<0.005	NT	ND<0.005	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.005	NT	ND<0.005	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.005	NT	ND<0.005	NT	NT	NT
Naphthalene	1,000	2,500	56	0.14	NT	0.096	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.005	NT	ND<0.005	NT	NT	NT
Tetrachloroethene	12	110	1	0.0081	NT	ND<0.005	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-PPPPP/ MW-N (5-7)	TB-PPPPP/ MW-N (10-12)	TB-PPPPP/ MW-N (15-17)	TB-PPPPP/ MW-N (20-22)	TB-PPPPP/ MW-N (25-27)	TB-QQQQQ (0.0-0.3)
Depth Below Grade (ft.)									
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	ND<0.005	NT	ND<0.005	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.005	NT	ND<0.005	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	NT	ND<0.005	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	NT	ND<0.005	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.005	NT	ND<0.005	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	8.6	4.5	5.1	ND<1.0	3.3	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-PPPPP/ MW-N (5-7)	TB-PPPPP/ MW-N (10-12)	TB-PPPPP/ MW-N (15-17)	TB-PPPPP/ MW-N (20-22)	TB-PPPPP/ MW-N (25-27)
Depth Below Grade (ft.)									
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
Total Metals									
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	ND<5.0	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	1,037	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-QQQQQ	TB-QQQQQ	TB-QQQQQ	TB-QQQQQ	TB-QQQQQ
Depth Below Grade (ft.)				(0.3-1.3)	(1.3-2.3)	(2.3-4.3)	(5-7)	(10-12)	(0.0-0.3)
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	ND<0.20	ND<0.20	ND<1.0	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	ND<0.20	ND<0.20	ND<1.0	NT
Anthracene	1,000	2,500	400	0.30	NT	ND<0.20	0.29	ND<1.0	NT
Benzo[a]anthracene	1	7.8	1	2.7	NT	0.31	1.0	1.1	NT
Benzo[a]pyrene	1	1	1	3.8	NT	0.39	1.1	2.8	NT
Benzo[b]fluoranthene	1	7.8	1	5.2	NT	0.52	1.3	1.4	NT
Benzo[g,h,i]perylene	1,000	2,500	42	1.9	NT	ND<0.20	0.50	2.5	NT
Benzo[k]fluoranthene	8.4	78	1	2.5	NT	0.24	0.62	ND<1.0	NT
Chrysene	84	780	1	3.4	NT	0.37	0.97	1.8	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	ND<0.20	ND<0.20	ND<1.0	NT
Fluoranthene	1,000	2,500	56	5.8	NT	0.77	2.1	ND<1.0	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	ND<0.20	ND<0.20	ND<1.0	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	2.2	NT	0.21	0.54	1.1	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	ND<0.20	ND<0.20	ND<1.0	NT
Phenanthrene	1,000	2,500	40	1.8	NT	0.36	0.95	ND<1.0	NT
Pyrene	1,000	2,500	40	5.2	NT	0.69	1.8	4.0	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	NT	ND<0.001	NT	ND<0.001	ND<0.001	NT
sec-Butylbenzene	500	1,000	14	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	0.20	NT	0.0052	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)						
	Residential	Industrial/ Commercial		GB Area	TB-QQQQQ (0.3-1.3)	TB-QQQQQ (1.3-2.3)	TB-QQQQQ (2.3-4.3)	TB-QQQQQ (5-7)	TB-QQQQQ (10-12)	TB-RRRRR (0.0-0.3)
Depth Below Grade (ft.)										
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)										
Toluene	500	1,000	67	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT	NT
Xylenes (total)	500	1,000	19.5	NT	ND<0.005	NT	ND<0.005	ND<0.005	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)										
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082										
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT	NT
SPLP Metals										
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.004	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	0.37	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	0.15	NT	NT	NT
Total Metals										
Antimony	27	8,200	NA	NT	NT	NT	2.9	NT	NT	NT
Arsenic	10	10	NA	4.0	1.3	2.5	4.1	ND<1.0	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	18	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	15	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	70	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	24	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	ND<0.20	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-QQQQQ	TB-QQQQQ	TB-QQQQQ	TB-QQQQQ	TB-QQQQQ	TB-RRRRR
Depth Below Grade (ft.)				(0.3-1.3)	(1.3-2.3)	(2.3-4.3)	(5-7)	(10-12)	(0.0-0.3)
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
Total Metals									
Nickel	1,400	7,500	NA	NT	NT	NT	19	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	1.1	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	18	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	37	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	ND<50	ND<50	884	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-RRRRR (0.3-1.3)	TB-RRRRR (1.3-2.3)	TB-RRRRR (2.3-4.3)	TB-RRRRR (5-7)	TB-RRRRR (15-17)
Depth Below Grade (ft.)				(0.3-1.3)	(1.3-2.3)	(2.3-4.3)	(5-7)	(15-17)	(20-22)
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	ND<0.20	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	ND<0.20	NT	ND<0.20	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	ND<0.20	NT	ND<0.20	NT	NT	NT
Benzo[a]pyrene	1	1	1	ND<0.20	NT	ND<0.20	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	ND<0.20	NT	ND<0.20	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	NT	ND<0.20	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	ND<0.20	NT	NT	NT
Chrysene	84	780	1	ND<0.20	NT	ND<0.20	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	ND<0.20	NT	NT	NT
Fluoranthene	1,000	2,500	56	ND<0.20	NT	ND<0.20	NT	NT	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<0.20	NT	ND<0.20	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.20	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	ND<0.20	NT	ND<0.20	NT	NT	NT
Pyrene	1,000	2,500	40	ND<0.20	NT	ND<0.20	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	NT	NT	ND<0.001	ND<0.001	ND<0.001	NT
sec-Butylbenzene	500	1,000	14	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-RRRRR (0.3-1.3)	TB-RRRRR (1.3-2.3)	TB-RRRRR (2.3-4.3)	TB-RRRRR (5-7)	TB-RRRRR (15-17)	TB-RRRRR (20-22)
Depth Below Grade (ft.)									
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.005	ND<0.005	ND<0.005	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	ND<0.004	NT	NT	NT	NT
Barium	NA	NA	10	NT	0.70	NT	NT	NT	NT
Copper	NA	NA	13	NT	ND<0.04	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	ND<0.013	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	ND<0.005	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	ND<0.05	NT	NT	NT	NT
Zinc	NA	NA	50	NT	0.26	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	ND<2.0	NT	NT	NT	NT
Arsenic	10	10	NA	ND<1.0	ND<1.0	ND<1.0	ND<1.0	3.1	3.3
Barium	4,700	140,000	NA	NT	19	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	5.2	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	7.5	NT	NT	NT	NT
Lead	500	1,000	NA	NT	5.0	NT	NT	NT	NT
Mercury	20	610	NA	NT	ND<0.20	NT	NT	NT	NT

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-RRRRR (0.3-1.3)	TB-RRRRR (1.3-2.3)	TB-RRRRR (2.3-4.3)	TB-RRRRR (5-7)	TB-RRRRR (15-17)
Depth Below Grade (ft.)				(0.3-1.3)	(1.3-2.3)	(2.3-4.3)	(5-7)	(15-17)	(20-22)
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
Total Metals									
Nickel	1,400	7,500	NA	NT	3.6	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	ND<1.0	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	16	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	11	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	ND<50	NT	ND<50	ND<50	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-SSSSS/ MW-O (0.0-0.3)	TB-SSSSS/ MW-O (0.3-1.3)	TB-SSSSS/ MW-O (1.3-2.3)	TB-SSSSS/ MW-O (2.3-4.3)	TB-SSSSS/ MW-O (5-7)
Depth Below Grade (ft.)									
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	NT	NT	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	NT	ND<0.20
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	NT	ND<0.20
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	NT	ND<0.20
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	NT	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	NT	ND<0.20
Chrysene	84	780	1	NT	NT	NT	NT	NT	ND<0.20
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20
Fluorene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	NT	ND<0.20
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	NT	ND<0.20
Pyrene	1,000	2,500	40	NT	NT	NT	NT	NT	ND<0.20
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	NT	NT	ND<0.001	ND<0.001	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	ND<0.005	ND<0.005	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.005	ND<0.005	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.005	ND<0.005	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.005	ND<0.005	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.005	ND<0.005	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.005	ND<0.005	NT	NT
Tetrachloroethene	12	110	1	NT	NT	ND<0.005	ND<0.005	NT	NT

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-SSSSS/ MW-O (0.0-0.3)	TB-SSSSS/ MW-O (0.3-1.3)	TB-SSSSS/ MW-O (1.3-2.3)	TB-SSSSS/ MW-O (2.3-4.3)	TB-SSSSS/ MW-O (5-7)
Depth Below Grade (ft.)									
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	NT	NT	ND<0.005	ND<0.005	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.005	ND<0.005	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	ND<0.005	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	ND<0.005	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.005	ND<0.005	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	ND<0.004	NT	NT	NT	NT
Barium	NA	NA	10	NT	0.54	NT	NT	NT	NT
Copper	NA	NA	13	NT	ND<0.04	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	ND<0.013	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	ND<0.005	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	ND<0.05	NT	NT	NT	NT
Zinc	NA	NA	50	NT	0.21	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	ND<2.0	NT	NT	NT	NT
Arsenic	10	10	NA	NT	ND<1.0	ND<1.0	1.2	ND<1.0	NT
Barium	4,700	140,000	NA	NT	21	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	5.0	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	9.9	NT	NT	NT	NT
Lead	500	1,000	NA	NT	4.6	NT	NT	NT	NT
Mercury	20	610	NA	NT	ND<0.20	NT	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-SSSSS/ MW-O (0.0-0.3)	TB-SSSSS/ MW-O (0.3-1.3)	TB-SSSSS/ MW-O (1.3-2.3)	TB-SSSSS/ MW-O (2.3-4.3)	TB-SSSSS/ MW-O (5-7)
Depth Below Grade (ft.)									
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/19/02	7/19/02
Total Metals									
Nickel	1,400	7,500	NA	NT	4.5	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	ND<1.0	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	20	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	14	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	ND<50	ND<50	ND<50	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-TTTTT (0.3-1.3)	TB-TTTTT (1.3-2.3)	TB-TTTTT (2.3-4.3)	TB-TTTTT (5-7)	TB-UUUUU (0.0-0.3)
Depth Below Grade (ft.)									
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	NT	NT	NT
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	NT	NT	NT
Anthracene	1,000	2,500	400	NT	NT	ND<0.20	NT	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	0.81	NT	NT	NT
Benzo[a]pyrene	1	1	1	NT	NT	0.77	NT	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	0.98	NT	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	0.41	NT	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	0.40	NT	NT	NT
Chrysene	84	780	1	NT	NT	0.91	NT	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	ND<0.20	NT	NT	NT
Fluoranthene	1,000	2,500	56	NT	NT	1.6	NT	NT	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	0.56	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	NT	NT	NT
Phenanthrene	1,000	2,500	40	NT	NT	1.1	NT	NT	NT
Pyrene	1,000	2,500	40	NT	NT	1.3	NT	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-TTTTT	TB-TTTTT	TB-TTTTT	TB-TTTTT	TB-UUUUU	TB-UUUUU
Depth Below Grade (ft.)				(0.3-1.3)	(1.3-2.3)	(2.3-4.3)	(5-7)	(0.0-0.3)	(0.3-1.3)
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	ND<1.0	ND<1.0	ND<1.0	2.1	1.2	1.4
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT	NT

**Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-TTTTT	TB-TTTTT	TB-TTTTT	TB-TTTTT	TB-UUUUU	TB-UUUUU
Depth Below Grade (ft.)				(0.3-1.3)	(1.3-2.3)	(2.3-4.3)	(5-7)	(0.0-0.3)	(0.3-1.3)
Sampling Date				7/19/02	7/19/02	7/19/02	7/19/02	7/22/02	7/22/02
Total Metals									
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-UUUUU	TB-UUUUU	TB-UUUUU	TB-VVVVV	TB-VVVVV	TB-VVVVV
Depth Below Grade (ft.)				(1.3-2.3)	(2.3-4.3)	(5-7)	(0.0-0.3)	(0.3-1.8)	(2-3.5)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	ND<0.20	NT	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	ND<0.20	NT	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	0.30	NT	NT	NT	0.35
Benzo[a]pyrene	1	1	1	NT	0.33	NT	NT	NT	0.45
Benzo[b]fluoranthene	1	7.8	1	NT	0.40	NT	NT	NT	0.63
Benzo[g,h,i]perylene	1,000	2,500	42	NT	ND<0.20	NT	NT	NT	0.25
Benzo[k]fluoranthene	8.4	78	1	NT	0.23	NT	NT	NT	0.31
Chrysene	84	780	1	NT	0.35	NT	NT	NT	0.42
Dibenz[a,h]anthracene	1	1	1	NT	ND<0.20	NT	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	0.56	NT	NT	NT	0.59
Fluorene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	ND<0.20	NT	NT	NT	0.28
Naphthalene	1,000	2,500	56	NT	ND<0.20	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	0.46	NT	NT	NT	0.27
Pyrene	1,000	2,500	40	NT	0.51	NT	NT	NT	0.58
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Benzene	21	200	0.2	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial		GB Area	TB-UUUUU	TB-UUUUU	TB-UUUUU	TB-WWWW	TB-WWWW
Depth Below Grade (ft.)				(1.3-2.3)	(2.3-4.3)	(5-7)	(0.0-0.3)	(0.3-1.8)	(2-3.5)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)									
Toluene	500	1,000	67	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)									
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082									
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT	NT
SPLP Metals									
Arsenic	NA	NA	0.5	NT	ND<0.004	NT	NT	NT	NT
Barium	NA	NA	10	NT	0.76	NT	NT	NT	NT
Copper	NA	NA	13	NT	ND<0.04	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	ND<0.013	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	ND<0.005	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	ND<0.05	NT	NT	NT	NT
Zinc	NA	NA	50	NT	0.28	NT	NT	NT	NT
Total Metals									
Antimony	27	8,200	NA	NT	ND<2.0	NT	NT	NT	NT
Arsenic	10	10	NA	1.2	1.2	2.2	2.2	1.5	1.4
Barium	4,700	140,000	NA	NT	23	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	8.4	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	22	NT	NT	NT	NT
Lead	500	1,000	NA	NT	16	NT	NT	NT	NT
Mercury	20	610	NA	NT	ND<0.20	NT	NT	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)					
	Residential	Industrial/ Commercial	GB Area	TB-UUUUU	TB-UUUUU	TB-UUUUU	TB-WWW	TB-WWW	TB-WWW
Depth Below Grade (ft.)				(1.3-2.3)	(2.3-4.3)	(5-7)	(0.0-0.3)	(0.3-1.8)	(2-3.5)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals									
Nickel	1,400	7,500	NA	NT	7.0	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	ND<1.0	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	26	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	29	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	90	NT	NT	NT	95

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- = Concentration exceeds associated criterion.

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-VVVVV	TB-WWWWW	TB-WWWWW	TB-WWWWW
Depth Below Grade (ft.)				(5-6.5)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<1.0	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<1.0	NT
Anthracene	1,000	2,500	400	NT	NT	NT	ND<1.0	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	ND<1.0	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	1.9	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	ND<1.0	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	4.2	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	ND<1.0	NT
Chrysene	84	780	1	NT	NT	NT	ND<1.0	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<1.0	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	ND<1.0	NT
Fluorene	1,000	2,500	56	NT	NT	NT	ND<1.0	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	ND<1.0	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<1.0	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	ND<1.0	NT
Pyrene	1,000	2,500	40	NT	NT	NT	ND<1.0	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	NT	ND<0.001	ND<0.001	0.0074
sec-Butylbenzene	500	1,000	14	NT	NT	ND<0.005	ND<0.005	ND<0.005
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.005	ND<0.005	ND<0.005
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.005	ND<0.005	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.005	ND<0.005	ND<0.005
Naphthalene	1,000	2,500	56	NT	NT	ND<0.005	ND<0.005	ND<0.005
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.005	ND<0.005	ND<0.005
Tetrachloroethene	12	110	1	NT	NT	0.11	0.03	0.018

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-VVVVV	TB-WWWWW	TB-WWWWW	TB-WWWWW	TB-WWWWW
Depth Below Grade (ft.)				(5-6.5)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	NT	ND<0.005	ND<0.005	0.0085
1,1,1-Trichloroethane	500	1,000	40	NT	NT	0.02	0.014	0.009
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	ND<0.005	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	ND<0.005	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.005	ND<0.005	ND<0.005
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	1.0	53	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	ND<0.0005	ND<0.0005	NT	NT
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	0.014	NT	NT
Barium	NA	NA	10	NT	NT	0.78	NT	NT
Copper	NA	NA	13	NT	NT	0.051	NT	NT
Lead	NA	NA	0.15	NT	NT	0.06	NT	NT
Thallium	NA	NA	0.05	NT	NT	0.0064	NT	NT
Vanadium	NA	NA	0.50	NT	NT	0.12	NT	NT
Zinc	NA	NA	50	NT	NT	0.42	NT	NT
Total Metals								
Antimony	27	8,200	NA	NT	NT	2.7	NT	NT
Arsenic	10	10	NA	ND<1.0	NT	2.9	4.5	5.8
Barium	4,700	140,000	NA	NT	NT	21	NT	NT
Chromium	100*	100*	NA	NT	NT	9.9	NT	NT
Copper	2,500	76,000	NA	NT	NT	51	NT	NT
Lead	500	1,000	NA	NT	NT	81	NT	NT
Mercury	20	610	NA	NT	NT	1.4	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-VVVVV	TB-WWWWWW	TB-WWWWWW	TB-WWWWWW
Depth Below Grade (ft.)				(5-6.5)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	11	NT	NT
Selenium	340	10,000	NA	NT	NT	1.1	NT	NT
Vanadium	470	14,000	NA	NT	NT	32	NT	NT
Zinc	20,000	610,000	NA	NT	NT	77	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	ND<5.0	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	330	345	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-XXXXX	TB-XXXXX	TB-XXXXX	TB-XXXXX	TB-XXXXX
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)	(10-12)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	NT	ND<0.20	ND<0.20	NT	NT
Acenaphthylene	1,000	2,500	84	NT	2.0	ND<0.20	NT	NT
Anthracene	1,000	2,500	400	NT	0.64	ND<0.20	NT	NT
Benzo[a]anthracene	1	7.8	1	NT	2.6	ND<0.20	NT	NT
Benzo[a]pyrene	1	1	1	NT	4.1	ND<0.20	NT	NT
Benzo[b]fluoranthene	1	7.8	1	NT	4.5	ND<0.20	NT	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	2.5	ND<0.20	NT	NT
Benzo[k]fluoranthene	8.4	78	1	NT	2.0	ND<0.20	NT	NT
Chrysene	84	780	1	NT	3.0	ND<0.20	NT	NT
Dibenz[a,h]anthracene	1	1	1	NT	0.63	ND<0.20	NT	NT
Fluoranthene	1,000	2,500	56	NT	2.8	0.23	NT	NT
Fluorene	1,000	2,500	56	NT	0.21	ND<0.20	NT	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	2.3	ND<0.20	NT	NT
Naphthalene	1,000	2,500	56	NT	0.79	ND<0.20	NT	NT
Phenanthrene	1,000	2,500	40	NT	1.2	ND<0.20	NT	NT
Pyrene	1,000	2,500	40	NT	5.8	0.27	NT	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	ND<0.001	ND<0.001	NT	ND<0.001
sec-Butylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	NT	ND<0.005
Ethylbenzene	500	1,000	10.1	NT	ND<0.005	ND<0.005	NT	ND<0.005
Isopropylbenzene	500	1,000	132	NT	ND<0.005	ND<0.005	NT	ND<0.005
4-Isopropyltoluene	500	1,000	41.8	NT	ND<0.005	ND<0.005	NT	ND<0.005
Naphthalene	1,000	2,500	56	NT	ND<0.005	ND<0.005	NT	ND<0.005
n-Propylbenzene	500	1,000	14	NT	ND<0.005	ND<0.005	NT	ND<0.005
Tetrachloroethene	12	110	1	NT	0.012	0.0051	NT	ND<0.005

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-XXXXX	TB-XXXXX	TB-XXXXX	TB-XXXXX
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)	(10-12)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	ND<0.005	ND<0.005	NT	ND<0.005
1,1,1-Trichloroethane	500	1,000	40	NT	ND<0.005	ND<0.005	NT	ND<0.005
1,2,4-Trimethylbenzene	500	1,000	70	NT	ND<0.005	ND<0.005	NT	ND<0.005
1,3,5-Trimethylbenzene	500	1,000	70	NT	ND<0.005	ND<0.005	NT	ND<0.005
Xylenes (total)	500	1,000	19.5	NT	ND<0.005	ND<0.005	NT	ND<0.005
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	ND<0.004	NT	NT
Barium	NA	NA	10	NT	NT	0.42	NT	NT
Copper	NA	NA	13	NT	NT	ND<0.04	NT	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	NT	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	NT	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	NT	NT
Zinc	NA	NA	50	NT	NT	0.58	NT	NT
Total Metals								
Antimony	27	8,200	NA	NT	NT	3.3	NT	NT
Arsenic	10	10	NA	NT	3.8	4.3	4.2	ND<1.0
Barium	4,700	140,000	NA	NT	NT	15	NT	NT
Chromium	100*	100*	NA	NT	NT	16	NT	NT
Copper	2,500	76,000	NA	NT	NT	62	NT	NT
Lead	500	1,000	NA	NT	NT	26	NT	NT
Mercury	20	610	NA	NT	NT	1.1	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-XXXXX	TB-XXXXX	TB-XXXXX	TB-XXXXX
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)	(10-12)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	15	NT	NT
Selenium	340	10,000	NA	NT	NT	1.6	NT	NT
Vanadium	470	14,000	NA	NT	NT	18	NT	NT
Zinc	20,000	610,000	NA	NT	NT	30	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	ND<5.0	NT	ND<5.0
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	286	ND<50	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-YYYYY (0.0-0.3)	TB-YYYYY (0.3-2.3)	TB-YYYYY (4-6)	TB-ZZZZZ (0.0-0.3)	TB-ZZZZZ (0.3-2.3)
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-2.3)	(4-6)	(0.0-0.3)	(0.3-2.3)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	NT	NT	NT	NT	ND<0.20
Anthracene	1,000	2,500	400	NT	NT	NT	NT	ND<0.20
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	NT	0.38
Benzo[a]pyrene	1	1	1	NT	NT	NT	NT	0.41
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	NT	0.44
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	NT	0.46
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	NT	ND<0.20
Chrysene	84	780	1	NT	NT	NT	NT	0.40
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	NT	ND<0.20
Fluoranthene	1,000	2,500	56	NT	NT	NT	NT	0.59
Fluorene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	NT	0.41
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	NT	NT	NT	NT	0.25
Pyrene	1,000	2,500	40	NT	NT	NT	NT	0.68
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	NT	ND<0.001	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	ND<0.005	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.005	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.005	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.005	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.005	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.005	NT	NT
Tetrachloroethene	12	110	1	NT	NT	ND<0.005	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-YYYY	TB-YYYYY	TB-YYYYY	TB-ZZZZZ
Depth Below Grade (ft.)				(0.0-0.3)	(0.3-2.3)	(4-6)	(0.0-0.3)	(0.3-2.3)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	NT	ND<0.005	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.005	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.005	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	NT	NT	ND<0.004
Barium	NA	NA	10	NT	NT	NT	NT	0.56
Copper	NA	NA	13	NT	NT	NT	NT	ND<0.04
Lead	NA	NA	0.15	NT	NT	NT	NT	ND<0.013
Thallium	NA	NA	0.05	NT	NT	NT	NT	ND<0.005
Vanadium	NA	NA	0.50	NT	NT	NT	NT	ND<0.05
Zinc	NA	NA	50	NT	NT	NT	NT	0.27
Total Metals								
Antimony	27	8,200	NA	NT	NT	NT	NT	ND<2.0
Arsenic	10	10	NA	NT	2.2	4.6	NT	ND<1.0
Barium	4,700	140,000	NA	NT	NT	NT	NT	14
Chromium	100*	100*	NA	NT	NT	NT	NT	5.1
Copper	2,500	76,000	NA	NT	NT	NT	NT	30
Lead	500	1,000	NA	NT	NT	NT	NT	28
Mercury	20	610	NA	NT	NT	NT	NT	ND<0.20

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-YYYYY (0.0-0.3)	TB-YYYYY (0.3-2.3)	TB-YYYYY (4-6)	TB-ZZZZZ (0.0-0.3)	TB-ZZZZZ (0.3-2.3)
Depth Below Grade (ft.)								
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	NT	NT	6.8
Selenium	340	10,000	NA	NT	NT	NT	NT	ND<1.0
Vanadium	470	14,000	NA	NT	NT	NT	NT	52
Zinc	20,000	610,000	NA	NT	NT	NT	NT	27
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	NT	ND<50

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-ZZZZZ	TB-ZZZZZ	TB-ZZZZZ	TB-AAAAAA	TB-AAAAAA
Depth Below Grade (ft.)				(2.3-4.3)	(5-7)	(10-12)	(0.0-0.3)	(0.3-2.3)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	0.28	NT	NT	NT	ND<0.20
Acenaphthylene	1,000	2,500	84	7.7	NT	NT	NT	0.49
Anthracene	1,000	2,500	400	2.9	NT	NT	NT	0.35
Benzo[a]anthracene	1	7.8	1	3.2	NT	NT	NT	0.93
Benzo[a]pyrene	1	1	1	7.3	NT	NT	NT	1.2
Benzo[b]fluoranthene	1	7.8	1	6.0	NT	NT	NT	1.1
Benzo[g,h,i]perylene	1,000	2,500	42	5.1	NT	NT	NT	1.1
Benzo[k]fluoranthene	8.4	78	1	2.6	NT	NT	NT	0.43
Chrysene	84	780	1	3.5	NT	NT	NT	0.94
Dibenz[a,h]anthracene	1	1	1	1.1	NT	NT	NT	0.23
Fluoranthene	1,000	2,500	56	3.8	NT	NT	NT	1.2
Fluorene	1,000	2,500	56	1.2	NT	NT	NT	ND<0.20
Indeno[1,2,3-cd]pyrene	1	7.8	1	3.9	NT	NT	NT	0.98
Naphthalene	1,000	2,500	56	3.4	NT	NT	NT	ND<0.20
Phenanthrene	1,000	2,500	40	4.3	NT	NT	NT	0.44
Pyrene	1,000	2,500	40	7.3	NT	NT	NT	1.5
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	NT	ND<0.001	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	ND<0.005	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	ND<0.005	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	ND<0.005	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	ND<0.005	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.005	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	ND<0.005	NT	NT
Tetrachloroethene	12	110	1	NT	NT	ND<0.005	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-ZZZZZ	TB-ZZZZZ	TB-ZZZZZ	TB-AAAAAA
Depth Below Grade (ft.)				(2.3-4.3)	(5-7)	(10-12)	(0.0-0.3)	(0.3-2.3)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	NT	ND<0.005	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	ND<0.005	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	ND<0.005	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	ND<0.005	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	1.4	5.7
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	NT	NT	ND<0.0005	ND<0.0005
SPLP Metals								
Arsenic	NA	NA	0.5	0.0099	NT	NT	NT	ND<0.004
Barium	NA	NA	10	0.67	NT	NT	NT	0.41
Copper	NA	NA	13	ND<0.04	NT	NT	NT	ND<0.04
Lead	NA	NA	0.15	0.033	NT	NT	NT	ND<0.013
Thallium	NA	NA	0.05	ND<0.005	NT	NT	NT	ND<0.005
Vanadium	NA	NA	0.50	ND<0.05	NT	NT	NT	0.20
Zinc	NA	NA	50	0.41	NT	NT	NT	0.22
Total Metals								
Antimony	27	8,200	NA	ND<2.0	NT	NT	NT	ND<2.0
Arsenic	10	10	NA	3.5	7.1	1.6	NT	2.2
Barium	4,700	140,000	NA	26	NT	NT	NT	27
Chromium	100*	100*	NA	8.9	NT	NT	NT	18
Copper	2,500	76,000	NA	69	NT	NT	NT	42
Lead	500	1,000	NA	65	NT	NT	NT	40
Mercury	20	610	NA	ND<0.20	NT	NT	NT	ND<0.20

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-ZZZZZ	TB-ZZZZZ	TB-ZZZZZ	TB-AAAAAA
Depth Below Grade (ft.)				(2.3-4.3)	(5-7)	(10-12)	(0.0-0.3)	(0.3-2.3)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	8.6	NT	NT	NT	130
Selenium	340	10,000	NA	ND<1.0	NT	NT	NT	ND<1.0
Vanadium	470	14,000	NA	24	NT	NT	NT	380
Zinc	20,000	610,000	NA	74	NT	NT	NT	53
Cyanide (Total)	1,400	41,000	NA	ND<5.0	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	85	NT	NT	NT	125

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-AAAAAA (2.3-4.3)	TB-AAAAAA (10-12)	TB-BBBBBB (0.0-0.3)	TB-BBBBBB (0.3-2.3)
Depth Below Grade (ft.)								
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	ND<1.0	0.63	NT	0.63	0.49
Acenaphthylene	1,000	2,500	84	ND<1.0	3.3	NT	0.27	1.4
Anthracene	1,000	2,500	400	ND<1.0	5.6	NT	1.9	2.2
Benzo[a]anthracene	1	7.8	1	ND<1.0	41	NT	8.0	6.0
Benzo[a]pyrene	1	1	1	ND<1.0	33	NT	5.5	7.3
Benzo[b]fluoranthene	1	7.8	1	ND<1.0	67	NT	8.2	8.6
Benzo[g,h,i]perylene	1,000	2,500	42	ND<1.0	22	NT	2.8	2.9
Benzo[k]fluoranthene	8.4	78	1	ND<1.0	19	NT	3.1	4.8
Chrysene	84	780	1	ND<1.0	30	NT	8.8	6.5
Dibenz[a,h]anthracene	1	1	1	ND<1.0	1.9	NT	0.75	0.99
Fluoranthene	1,000	2,500	56	ND<1.0	40	NT	19	11
Fluorene	1,000	2,500	56	ND<1.0	1.0	NT	0.49	0.59
Indeno[1,2,3-cd]pyrene	1	7.8	1	ND<1.0	28	NT	3.6	3.5
Naphthalene	1,000	2,500	56	ND<1.0	1.7	NT	0.24	0.25
Phenanthrene	1,000	2,500	40	ND<1.0	11	NT	12	5.8
Pyrene	1,000	2,500	40	ND<1.0	80	NT	16	10
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	NT	NT	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT

Table South.1

**Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut**

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-AAAAAA (2.3-4.3)	TB-AAAAAA (10-12)	TB-BBBBBB (0.0-0.3)	TB-BBBBBB (0.3-2.3)
Depth Below Grade (ft.)								
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	2.9	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT
Total Metals								
Antimony	27	8,200	NA	NT	NT	NT	NT	NT
Arsenic	10	10	NA	ND<1.0	1.1	4.0	5.8	9.1
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT

Table South.1

Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-AAAAAA (2.3-4.3)	TB-AAAAAA (10-12)	TB-BBBBBB (0.0-0.3)	TB-BBBBBB (0.3-2.3)
Depth Below Grade (ft.)								
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	ND<5.0	NT	NT	NT	ND<5.0
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	348	NT	NT	NT	156

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-BBBBBB (5-7)	TB-BBBBBB (10-12)	TB-CCCCC (0.0-0.3)	TB-CCCCC (0.3-2.3)
Depth Below Grade (ft.)				(5-7)	(10-12)	(0.0-0.3)	(0.3-2.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	NT	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	NT	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	NT	ND<0.20	NT
Benzo[a]pyrene	1	1	1	NT	NT	NT	ND<0.20	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	NT	ND<0.20	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	NT	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	NT	ND<0.20	NT
Chrysene	84	780	1	NT	NT	NT	ND<0.20	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	NT	ND<0.20	NT
Fluoranthene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT
Fluorene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	NT	ND<0.20	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	NT	ND<0.20	NT
Pyrene	1,000	2,500	40	NT	NT	NT	ND<0.20	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	NT	NT	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-BBBBBB (5-7)	TB-BBBBBB (10-12)	TB-CCCCC (0.0-0.3)	TB-CCCCC (0.3-2.3)	TB-CCCCC (5-7)
Depth Below Grade (ft.)				(5-7)	(10-12)	(0.0-0.3)	(0.3-2.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	ND<0.0005
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.004	NT
Barium	NA	NA	10	NT	NT	NT	0.22	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	NT	0.10	NT
Total Metals								
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	NT
Arsenic	10	10	NA	6.9	4.2	NT	ND<1.0	9.0
Barium	4,700	140,000	NA	NT	NT	NT	19	NT
Chromium	100*	100*	NA	NT	NT	NT	4.9	NT
Copper	2,500	76,000	NA	NT	NT	NT	24	NT
Lead	500	1,000	NA	NT	NT	NT	7.4	NT
Mercury	20	610	NA	NT	NT	NT	ND<0.20	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-BBBBBB (5-7)	TB-BBBBBB (10-12)	TB-CCCCC (0.0-0.3)	TB-CCCCC (0.3-2.3)
Depth Below Grade (ft.)				(5-7)	(10-12)	(0.0-0.3)	(0.3-2.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	NT	8.6	NT
Selenium	340	10,000	NA	NT	NT	NT	ND<1.0	NT
Vanadium	470	14,000	NA	NT	NT	NT	33	NT
Zinc	20,000	610,000	NA	NT	NT	NT	50	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	ND<5.0	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	NT	ND<50	75

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- * = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-CCCCC (10-12)	TB-DDDDDD (0.0-0.3)	TB-DDDDDD (0.3-2.3)	TB-DDDDDD (2.3-4.3)	TB-DDDDDD (5-7)
Depth Below Grade (ft.)				(10-12)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	ND<0.20	0.21	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	ND<0.20	1.3	NT
Benzo[a]pyrene	1	1	1	NT	NT	ND<0.20	1.5	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	ND<0.20	2.0	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	ND<0.20	0.68	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	ND<0.20	1.1	NT
Chrysene	84	780	1	NT	NT	ND<0.20	1.5	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	ND<0.20	0.22	NT
Fluoranthene	1,000	2,500	56	NT	NT	ND<0.20	2.6	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	ND<0.20	0.83	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	ND<0.20	1.8	NT
Pyrene	1,000	2,500	40	NT	NT	ND<0.20	2.3	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	NT	NT	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-CCCCC (10-12)	TB-DDDDDD (0.0-0.3)	TB-DDDDDD (0.3-2.3)	TB-DDDDDD (2.3-4.3)	TB-DDDDDD (5-7)
Depth Below Grade (ft.)								
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT
Total Metals								
Antimony	27	8,200	NA	NT	NT	NT	NT	NT
Arsenic	10	10	NA	1.4	NT	ND<1.0	3.0	4.1
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-CCCCC (10-12)	TB-DDDDDD (0.0-0.3)	TB-DDDDDD (0.3-2.3)	TB-DDDDDD (2.3-4.3)
Depth Below Grade (ft.)								
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-DDDDDD	TB-EEEEEE	TB-EEEEEE	TB-EEEEEE	TB-EEEEEE
Depth Below Grade (ft.)				(10-12)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	ND<0.20	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	0.46	0.50	NT
Benzo[a]pyrene	1	1	1	NT	NT	0.51	0.64	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	0.78	0.82	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	0.23	0.33	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	0.41	0.46	NT
Chrysene	84	780	1	NT	NT	0.59	0.57	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	ND<0.20	ND<0.20	NT
Fluoranthene	1,000	2,500	56	NT	NT	0.87	0.81	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	0.30	0.38	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	0.29	0.38	NT
Pyrene	1,000	2,500	40	NT	NT	0.80	0.77	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	NT	NT	ND<0.001	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	ND<0.005	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	ND<0.005	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	ND<0.005	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	ND<0.005	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	ND<0.005	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	ND<0.005	NT
Tetrachloroethene	12	110	1	NT	NT	NT	ND<0.005	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-DDDDDD (10-12)	TB-EEEEEE (0.0-0.3)	TB-EEEEEE (0.3-2.3)	TB-EEEEEE (2.3-4.3)
Depth Below Grade (ft.)				(10-12)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	NT	NT	ND<0.005	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	ND<0.005	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	ND<0.005	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	ND<0.005	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	ND<0.50	42	ND<0.50	2.6
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	NT	0.0018	NT	ND<0.0005
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	NT	0.014	NT
Barium	NA	NA	10	NT	NT	NT	0.67	NT
Copper	NA	NA	13	NT	NT	NT	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	NT	ND<0.013	NT
Thallium	NA	NA	0.05	NT	NT	NT	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	NT	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	NT	0.39	NT
Total Metals								
Antimony	27	8,200	NA	NT	NT	NT	ND<2.0	NT
Arsenic	10	10	NA	12	NT	2.4	9.7	11
Barium	4,700	140,000	NA	NT	NT	NT	36	NT
Chromium	100*	100*	NA	NT	NT	NT	10	NT
Copper	2,500	76,000	NA	NT	NT	NT	72	NT
Lead	500	1,000	NA	NT	NT	NT	58	NT
Mercury	20	610	NA	NT	NT	NT	3.0	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-DDDDDD	TB-EEEEEE	TB-EEEEEE	TB-EEEEEE	TB-EEEEEE
Depth Below Grade (ft.)				(10-12)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	NT	9.3	NT
Selenium	340	10,000	NA	NT	NT	NT	ND<1.0	NT
Vanadium	470	14,000	NA	NT	NT	NT	23	NT
Zinc	20,000	610,000	NA	NT	NT	NT	78	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	ND<5.0	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	ND<50	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-EEEEEE (10-12)	TB-FFFFFF (0.0-0.3)	TB-FFFFFF (0.3-2.3)	TB-FFFFFF (2.3-4.3)
Depth Below Grade (ft.)				(10-12)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	NT	NT	ND<0.20	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	NT	NT	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	NT	NT	ND<0.20	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	NT	NT	ND<0.20	ND<0.20	NT
Benzo[a]pyrene	1	1	1	NT	NT	ND<0.20	ND<0.20	NT
Benzo[b]fluoranthene	1	7.8	1	NT	NT	ND<0.20	ND<0.20	NT
Benzo[g,h,i]perylene	1,000	2,500	42	NT	NT	ND<0.20	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	NT	NT	ND<0.20	ND<0.20	NT
Chrysene	84	780	1	NT	NT	ND<0.20	ND<0.20	NT
Dibenz[a,h]anthracene	1	1	1	NT	NT	ND<0.20	ND<0.20	NT
Fluoranthene	1,000	2,500	56	NT	NT	ND<0.20	ND<0.20	NT
Fluorene	1,000	2,500	56	NT	NT	ND<0.20	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	NT	NT	ND<0.20	ND<0.20	NT
Naphthalene	1,000	2,500	56	NT	NT	ND<0.20	ND<0.20	NT
Phenanthrene	1,000	2,500	40	NT	NT	ND<0.20	ND<0.20	NT
Pyrene	1,000	2,500	40	NT	NT	ND<0.20	ND<0.20	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	NT	NT	NT	NT	NT
sec-Butylbenzene	500	1,000	14	NT	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	NT	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	NT	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	NT	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	NT	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	NT	NT	NT	NT	NT
Tetrachloroethene	12	110	1	NT	NT	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-EEEEEE	TB-FFFFFF	TB-FFFFFF	TB-FFFFFF	TB-FFFFFF
Depth Below Grade (ft.)				(10-12)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(5-7)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	NT	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	NT	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	7.5	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	ND<0.0005	NT	NT	NT
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	ND<0.004	ND<0.004	NT
Barium	NA	NA	10	NT	NT	0.34	0.42	NT
Copper	NA	NA	13	NT	NT	ND<0.04	ND<0.04	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	ND<0.013	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	ND<0.005	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	ND<0.05	NT
Zinc	NA	NA	50	NT	NT	0.27	0.23	NT
Total Metals								
Antimony	27	8,200	NA	NT	NT	ND<2.0	ND<2.0	NT
Arsenic	10	10	NA	5.8	NT	ND<1.0	ND<1.0	ND<1.0
Barium	4,700	140,000	NA	NT	NT	19	9.6	NT
Chromium	100*	100*	NA	NT	NT	4.4	3.0	NT
Copper	2,500	76,000	NA	NT	NT	6.9	37	NT
Lead	500	1,000	NA	NT	NT	21	4.6	NT
Mercury	20	610	NA	NT	NT	ND<0.20	ND<0.20	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-EEEEEE (10-12)	TB-FFFFFF (0.0-0.3)	TB-FFFFFF (0.3-2.3)	TB-FFFFFF (2.3-4.3)
Depth Below Grade (ft.)								
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	2.9	6.4	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	ND<1.0	NT
Vanadium	470	14,000	NA	NT	NT	14	61	NT
Zinc	20,000	610,000	NA	NT	NT	14	24	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	ND<50	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial		GB Area	TB-FFFFFF (10-12)	TB-GGGGGG (0.0-0.3)	TB-GGGGGG (0.3-2.3)	TB-GGGGGG (2.3-4.3)
Depth Below Grade (ft.)				(10-12)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(10-12)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	1,000	2,500	84	0.26	NT	ND<0.20	ND<0.20	NT
Acenaphthylene	1,000	2,500	84	ND<0.20	NT	ND<0.20	ND<0.20	NT
Anthracene	1,000	2,500	400	0.34	NT	ND<0.20	ND<0.20	NT
Benzo[a]anthracene	1	7.8	1	0.38	NT	ND<0.20	ND<0.20	NT
Benzo[a]pyrene	1	1	1	0.43	NT	ND<0.20	ND<0.20	NT
Benzo[b]fluoranthene	1	7.8	1	0.46	NT	ND<0.20	ND<0.20	NT
Benzo[g,h,i]perylene	1,000	2,500	42	ND<0.20	NT	ND<0.20	ND<0.20	NT
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	NT	ND<0.20	ND<0.20	NT
Chrysene	84	780	1	0.40	NT	ND<0.20	ND<0.20	NT
Dibenz[a,h]anthracene	1	1	1	ND<0.20	NT	ND<0.20	ND<0.20	NT
Fluoranthene	1,000	2,500	56	0.86	NT	ND<0.20	ND<0.20	NT
Fluorene	1,000	2,500	56	ND<0.20	NT	ND<0.20	ND<0.20	NT
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.21	NT	ND<0.20	ND<0.20	NT
Naphthalene	1,000	2,500	56	0.24	NT	ND<0.20	ND<0.20	NT
Phenanthrene	1,000	2,500	40	0.86	NT	ND<0.20	ND<0.20	NT
Pyrene	1,000	2,500	40	0.88	NT	ND<0.20	ND<0.20	NT
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Benzene	21	200	0.2	ND<0.001	NT	NT	NT	NT
sec-Butylbenzene	500	1,000	14	ND<0.005	NT	NT	NT	NT
Ethylbenzene	500	1,000	10.1	ND<0.005	NT	NT	NT	NT
Isopropylbenzene	500	1,000	132	ND<0.005	NT	NT	NT	NT
4-Isopropyltoluene	500	1,000	41.8	ND<0.005	NT	NT	NT	NT
Naphthalene	1,000	2,500	56	ND<0.005	NT	NT	NT	NT
n-Propylbenzene	500	1,000	14	ND<0.005	NT	NT	NT	NT
Tetrachloroethene	12	110	1	ND<0.005	NT	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/ Commercial	GB Area	TB-FFFFFF (10-12)	TB-GGGGGG (0.0-0.3)	TB-GGGGGG (0.3-2.3)	TB-GGGGGG (2.3-4.3)	TB-GGGGGG (10-12)
Depth Below Grade (ft.)				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Sampling Date								
USEPA Method 8260 Volatile Organic Compounds (VOCs)								
Toluene	500	1,000	67	ND<0.005	NT	NT	NT	NT
1,1,1-Trichloroethane	500	1,000	40	ND<0.005	NT	NT	NT	NT
1,2,4-Trimethylbenzene	500	1,000	70	ND<0.005	NT	NT	NT	NT
1,3,5-Trimethylbenzene	500	1,000	70	ND<0.005	NT	NT	NT	NT
Xylenes (total)	500	1,000	19.5	ND<0.005	NT	NT	NT	NT
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)								
PCB-1260	1	10	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
SPLP PCBs USEPA Method 8082								
PCB-1260	NA	NA	0.005	NT	NT	NT	NT	NT
SPLP Metals								
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT
Total Metals								
Antimony	27	8,200	NA	NT	NT	NT	NT	NT
Arsenic	10	10	NA	3.8	NT	ND<1.0	ND<1.0	ND<1.0
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	NT	NT	NT

Table South.1
Comparison of Test Boring Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)				
	Residential	Industrial/Commercial		GB Area	TB-FFFFF	TB-GGGGG	TB-GGGGG	TB-GGGGG
Depth Below Grade (ft.)				(10-12)	(0.0-0.3)	(0.3-2.3)	(2.3-4.3)	(10-12)
Sampling Date				7/22/02	7/22/02	7/22/02	7/22/02	7/22/02
Total Metals								
Nickel	1,400	7,500	NA	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	NT	NT	NT
Vanadium	470	14,000	NA	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	NT	NT	NT
Cyanide (Total)	1,400	41,000	NA	NT	NT	NT	NT	NT
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	NT	ND<50	ND<50	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure.
Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- ☐ = Concentration exceeds associated criterion.

Table South.2
Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)		
	Residential	Industrial/ Commercial	GB Area	SS-QQ	SS-RR	SS-SS
Depth Below Grade (ft.)				(0.5-1.0)	(0.3-0.5)	(0.3-0.5)
Sampling Date				7/18/02	7/19/02	7/19/02
SPLP Metals						
Arsenic	NA	NA	0.5	ND<0.004	ND<0.004	NT
Total Metals						
Antimony	27	8,200	NA	NT	7.6	NT
Arsenic	10	10	NA	ND<1.0	13	2.6
Barium	4,700	140,000	NA	NT	60	NT
Chromium	100*	100*	NA	NT	37	NT
Copper	2,500	76,000	NA	NT	120	NT
Lead	500	1,000	NA	NT	160	NT
Mercury	20	610	NA	NT	0.25	NT
Nickel	1,400	7,500	NA	NT	51	NT
Selenium	340	10,000	NA	NT	2.8	NT
Vanadium	470	14,000	NA	NT	150	NT
Zinc	20,000	610,000	NA	NT	210	NT
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)						
Acenaphthene	1,000	2,500	84	ND<0.20	0.25	ND<0.20
Acenaphthylene	1,000	2,500	84	0.50	0.27	ND<0.20
Anthracene	1,000	2,500	400	ND<0.20	0.47	ND<0.20
Benzo[a]anthracene	1	7.8	1	0.26	2.3	0.26
Benzo[a]pyrene	1	1	1	0.29	2.2	0.36
Benzo[b]fluoranthene	1	7.8	1	0.37	3.5	0.55
Benzo[g,h,i]perylene	1,000	2,500	42	0.37	1.3	ND<0.20
Benzo[k]fluoranthene	8.4	78	1	ND<0.20	1.3	0.24
Chrysene	84	780	1	0.39	3.0	0.36
Dibenz[a,h]anthracene	1	1	1	ND<0.20	0.41	ND<0.20
Fluoranthene	1,000	2,500	56	0.54	5.2	0.61
Fluorene	1,000	2,500	56	ND<0.20	0.20	ND<0.20

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AEI-00T-030d

Table South.2

Comparison of Surface Soil Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, Connecticut

Analyte	Direct Exposure Criteria for Soil (mg/kg)		Pollutant Mobility Criteria for Soil (mg/kg)	Soil Sample Concentrations (ppm)		
	Residential	Industrial/Commercial	GB Area	SS-QQ (0.5-1.0)	SS-RR (0.3-0.5)	SS-SS (0.3-0.5)
Depth Below Grade (ft.)						
Sampling Date				7/18/02	7/19/02	7/19/02
USEPA Method 8270C Polynuclear Aromatic Hydrocarbons (PAHs)						
Indeno[1,2,3-cd]pyrene	1	7.8	1	0.36	1.5	ND<0.20
Naphthalene	1,000	2,500	56	ND<0.20	0.20	ND<0.20
Phenanthrene	1,000	2,500	40	0.26	3.3	0.23
Pyrene	1,000	2,500	40	0.53	4.4	0.53
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)						
PCB-1260	1	10	NA	ND<0.50	1.0	3.2
SPLP PCBs USEPA Method 8082						
PCB-1260	NA	NA	0.005	ND<0.0005	ND<0.0005	ND<0.0005
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)						
	500	2,500	2,500	56	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
- ppm = Parts per million (comparable to mg/kg).
- NA = Not applicable.
- ND = Not detected.
- NT = Not tested.
- < = Less than minimum detection limit.
- SPLP = Test performed on leachate from Synthetic Precipitation Leachate Procedure. Units are milligrams per liter (mg/L).
- = 100 mg/kg for hexavalent chromium.
- = Concentration exceeds associated criterion.

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)							
		Residential	Industrial/ Commercial	MW-1	MW-2	MW-3			MW-4D		
Sample Collection Date				6-18-98	6-18-98	6-18-98	5-29-01	9-11-01	6-18-98	6-1-01	9-14-01
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	NT	NT	NT	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)											
Acenaphthene	NC	NC	NC	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.06	ND<0.06	ND<0.30	ND<0.06	ND<0.06
Benzo[a]pyrene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.08	ND<0.08
Benzo[g,h,i]perylene	NC	NC	NC	ND<20	ND<20	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chrysene	NC	NC	NC	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	ND<20	ND<20	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0
Fluorene	140,000	NC	NC	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<20	ND<20	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	ND<0.07	ND<0.07	ND<0.07	ND<0.077	ND<0.077	ND<0.07	ND<0.077	ND<0.077
Pyrene	110,000	NC	NC	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)											
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5.0	3.3	2.2
4-Isopropyltoluene	NC	NC	NC	NT	NT	NT	ND<1.0	ND<1.0	NT	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.0	2.1	ND<1.0



Table 7
Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
				Residential	Industrial/ Commercial	MW-1	MW-2	MW-3			MW-4D	
								6-18-98	5-29-01	9-11-01	6-18-98	6-1-01
Sample Collection Date				6-18-98	6-18-98	6-18-98	5-29-01	9-11-01	6-18-98	6-1-01	9-14-01	
Total Metals												
Arsenic	4	NC	NC	ND<50	ND<50	ND<50	ND<4	ND<4	ND<50	ND<4	ND<4	
Barium	NC	NC	NC	ND<500	ND<500	ND<500	ND<50	82	ND<500	ND<50	ND<50	
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	
Copper	48	NC	NC	NT	NT	NT	ND<40	ND<40	NT	ND<40	ND<40	
Lead	13	NC	NC	ND<5	ND<5	ND<5	ND<13	ND<13	ND<5	ND<13	ND<13	
Nickel	880	NC	NC	NT	NT	NT	ND<50	ND<50	NT	ND<50	ND<50	
Selenium	50	NC	NC	ND<10	ND<10	ND<10	24	ND<10	20J	19	ND<10	
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	
Zinc	123	NC	NC	NT	NT	NT	ND<10	ND<10	NT	ND<10	ND<10	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	NT	NT	ND<100	ND<100	NT	ND<100	ND<100	

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
		Residential	Industrial/ Commercial	MW-4S			MW-5			MW-5A ⁽¹⁾	MW-6	
				6-18-98	5-31-01	9-14-01	6-18-98	5-30-01	9-14-01	9-14-01	6-18-98	
Sample Collection Date												
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	NT	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
USEPA Method 8270 Polynuclear Aromatics (PAHs)												
Acenaphthene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<5.0	
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
Anthracene	1,100,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<5.0	
Benzo[a]anthracene	0.3	NC	NC	ND<0.30	ND<0.06	ND<0.06	ND<0.30	ND<0.06	ND<0.06	ND<0.06	ND<0.30	
Benzo[a]pyrene	0.3	NC	NC	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.20	ND<0.30	
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.08	ND<0.08	ND<0.08	ND<0.30	
Benzo[g,h,i]perylene	NC	NC	NC	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	ND<20	
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
Chrysene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<5.0	
Dibenz[a,h]anthracene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<20	
Fluoranthene	3,700	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<5.0	
Fluorene	140,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<5.0	
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<20	
Phenanthrene	0.3	NC	NC	ND<0.077	ND<0.077	ND<0.077	ND<0.07	ND<0.077	ND<0.077	ND<0.077	ND<0.07	
Pyrene	110,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<5.0	
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)												
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	4.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
4-Isopropyltoluene	NC	NC	NC	NT	ND<1.0	ND<1.0	NT	NT	ND<1.0	NT	NT	
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	

**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
		Residential	Industrial/Commercial	MW-4S			MW-5		MW-5A ⁽¹⁾	MW-6		
				6-18-98	5-31-01	9-14-01	6-18-98	5-30-01	9-14-01	9-14-01	6-18-98	
Sample Collection Date												
Total Metals												
Arsenic	4	NC	NC	ND<50	ND<4	ND<4	ND<50	86	29	38	ND<50	
Barium	NC	NC	NC	ND<500	ND<50	81	ND<500	ND<50	ND<50	ND<50	ND<500	
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	
Copper	48	NC	NC	NT	76	ND<40	NT	ND<40	ND<40	ND<40	NT	
Lead	13	NC	NC	ND<5	ND<13	ND<13	22	ND<13	ND<13	ND<13	21	
Nickel	880	NC	NC	NT	ND<50	ND<50	NT	ND<50	ND<50	ND<50	NT	
Selenium	50	NC	NC	ND<10	ND<10	ND<10	ND<10	14	ND<10	ND<10	ND<10	
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	
Zinc	123	NC	NC	NT	120	40	NT	ND<10	ND<10	ND<10	NT	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	ND<100	ND<100	NT	ND<100	ND<100	ND<100	NT	

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
- The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
- Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)									
		Residential	Industrial/ Commercial	MW-7			MW-9A			MW-10			
				6-18-98	5-29-01	9-11-01	6-18-98	5-30-01	9-13-01	6-19-98	5-30-01	9-12-01	
Sample Collection Date													
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	NT	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
USEPA Method 8270 Polynuclear Aromatics (PAHs)													
Acenaphthene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	7.5	6.6	ND<5.0	ND<1.0	ND<1.0	
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	2.2	8.9	8.1	ND<0.30	ND<0.30	ND<0.30	
Anthracene	1,100,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	1.3	2.5	ND<0.30	ND<1.0	ND<1.0	
Benzo[a]anthracene	0.3	NC	NC	ND<0.30	ND<0.06	ND<0.06	ND<0.30	0.33	5.6	ND<0.30	ND<0.06	0.30	
Benzo[a]pyrene	0.3	NC	NC	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	4.4	ND<0.30	ND<0.20	0.20	
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.08	6.1	ND<0.30	ND<0.08	0.25	
Benzo[g,h,i]perylene	NC	NC	NC	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	1.0	ND<20	ND<1.0	ND<1.0	
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	2.8	ND<0.30	ND<0.30	ND<0.30	
Chrysene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	4.7	ND<5.0	ND<1.0	ND<1.0	
Dibenz[a,h]anthracene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	
Fluoranthene	3,700	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	4.5	16	ND<5.0	1.0	1.4	
Fluorene	140,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	12	14	ND<5.0	ND<1.0	ND<1.0	
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	1.3	ND<20	ND<0.50	ND<0.50	
Phenanthrene	0.3	NC	NC	ND<0.07	ND<0.077	ND<0.077	0.61	1.3	2.8	ND<0.07	ND<0.077	0.19	
Pyrene	110,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	3.5	13	ND<5.0	1.2	1.5	
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)													
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5.0	2.9	6.3	
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
4-Isopropyltoluene	NC	NC	NC	NT	ND<1.0	ND<1.0	NT	ND<1.0	ND<1.0	NT	NT	ND<1.0	
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.0	6.8	1.2	
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	

**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)									
		Residential	Industrial/ Commercial	MW-7			MW-9A			MW-10			
				6-18-98	5-29-01	9-11-01	6-18-98	5-30-01	9-13-01	6-19-98	5-30-01	9-12-01	
Sample Collection Date													
Total Metals													
Arsenic	4	NC	NC	ND<50	ND<4	ND<4	ND<50	ND<4	ND<4	ND<50	ND<4	ND<4	
Barium	NC	NC	NC	ND<500	ND<50	ND<50	ND<500	ND<50	ND<50	ND<500	ND<50	65	
Cadmium	6	NC	NC	5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	
Copper	48	NC	NC	NT	41	51	NT	ND<40	ND<40	NT	ND<40	ND<40	
Lead	13	NC	NC	9	ND<13	ND<13	ND<5	ND<13	ND<13	ND<5	ND<13	ND<13	
Nickel	880	NC	NC	NT	ND<50	ND<50	NT	ND<50	ND<50	NT	ND<50	ND<50	
Selenium	50	NC	NC	ND<10	15	ND<10	ND<10	15	ND<10	R	14	12	
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Zinc	123	NC	NC	NT	70	260	NT	ND<10	ND<10	NT	ND<10	ND<10	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	ND<100	ND<100	NT	490	120	NT	ND<100	ND<100	

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
- The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
- Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)									
		Residential	Industrial/ Commercial	MW-12			MW-13			MW-14D			
				6-19-98	5-31-01	9-12-01	6-19-98	5-31-01	9-13-01	6-18-98	5-31-01	9-13-01	
Sample Collection Date													
USEPA Method 8082 PolychlorinatedBiphenyls (PCBs)	0.5	NC	NC	ND<1.0	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	
USEPA Method 8270 Polynuclear Aromatics (PAHs)													
Acenaphthene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
Anthracene	1,100,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Benzo[a]anthracene	0.3	NC	NC	ND<0.30	ND<0.06	ND<0.06	ND<0.30	ND<0.06	ND<0.06	ND<0.30	ND<0.06	ND<0.06	
Benzo[a]pyrene	0.3	NC	NC	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.08	ND<0.08	
Benzo[g,h,i]perylene	NC	NC	NC	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
Chrysene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Dibenz[a,h]anthracene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	
Fluoranthene	3,700	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Fluorene	140,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	
Phenanthrene	0.3	NC	NC	ND<0.07	ND<0.077	ND<0.077	ND<0.07	ND<0.077	ND<0.077	ND<0.07	ND<0.077	ND<0.077	
Pyrene	110,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)													
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.0	ND<1.0	ND<1.0	
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	12	ND<1.0	ND<1.0	
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
4-Isopropyltoluene	NC	NC	NC	NT	NT	ND<1.0	NT	ND<1.0	ND<1.0	NT	ND<1.0	ND<1.0	
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	

Table 7

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)									
		Residential	Industrial/ Commercial	MW-12			MW-13			MW-14D			
				6-19-98	5-31-01	9-12-01	6-19-98	5-31-01	9-13-01	6-18-98	5-31-01	9-13-01	
Sample Collection Date													
Total Metals													
Arsenic	4	NC	NC	ND<50	ND<4	ND<4	ND<50	ND<4	ND<4	ND<50	ND<4	ND<4	
Barium	NC	NC	NC	ND<500	ND<50	60	ND<500	ND<50	63	ND<500	160	190	
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	
Copper	48	NC	NC	NT	ND<40	ND<40	NT	ND<40	ND<40	NT	ND<40	ND<40	
Lead	13	NC	NC	ND<5	ND<13	ND<13	7J	ND<13	ND<13	ND<5	ND<13	ND<13	
Nickel	880	NC	NC	NT	ND<50	ND<50	NT	ND<50	ND<50	NT	ND<50	ND<50	
Selenium	50	NC	NC	R	ND<10	ND<10	R	ND<10	ND<10	10J	29	13	
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Zinc	123	NC	NC	NT	21	20	NT	ND<10	ND<10	NT	ND<10	ND<10	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	ND<100	180	NT	ND<100	ND<100	NT	130	ND<100	

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- ☐ = Concentration exceeds associated criterion.

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)									
		Residential	Industrial/ Commercial	MW-14S			MW-15			MW-16			
				6-19-98	5-31-01	9-13-01	6-18-98	5-30-01	9-13-01	6-18-98	5-30-01	9-13-01	
Sample Collection Date													
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	NT	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	
USEPA Method 8270 Polynuclear Aromatics (PAHs)													
Acenaphthene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
Anthracene	1,100,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Benzo[a]anthracene	0.3	NC	NC	0.47	ND<0.06	0.09	ND<0.30	ND<0.06	ND<0.06	ND<0.30	ND<0.06	ND<0.06	
Benzo[a]pyrene	0.3	NC	NC	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	
Benzo[b]fluoranthene	0.3	NC	NC	0.73	ND<0.08	0.13	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.08	ND<0.08	
Benzo[g,h,i]perylene	NC	NC	NC	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	
Benzo[k]fluoranthene	0.3	NC	NC	0.92	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	
Chrysene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Dibenz[a,h]anthracene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	
Fluoranthene	3,700	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Fluorene	140,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	
Phenanthrene	0.3	NC	NC	0.36	ND<0.077	0.11	ND<0.07	ND<0.077	ND<0.077	ND<0.07	ND<0.077	ND<0.077	
Pyrene	110,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)													
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
4-Isopropyltoluene	NC	NC	NC	NT	ND<1.0	ND<1.0	NT	ND<1.0	ND<1.0	NT	ND<1.0	ND<1.0	
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	

Table 7
Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)										
				Residential	Industrial/ Commercial	MW-14S			MW-15			MW-16		
						6-19-98	5-31-01	9-13-01	6-18-98	5-30-01	9-13-01	6-18-98	5-30-01	9-13-01
Sample Collection Date														
Total Metals														
Arsenic	4	NC	NC	ND<50	ND<4	ND<4	ND<50	ND<4	ND<4	ND<50	ND<4	ND<4	ND<4	
Barium	NC	NC	NC	ND<500	120	220	ND<500	ND<50	ND<50	ND<500	ND<50	ND<50	51	
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	
Copper	48	NC	NC	NT	ND<40	ND<40	NT	ND<40	ND<40	NT	ND<40	ND<40	ND<40	
Lead	13	NC	NC	6J	ND<13	ND<13	ND<5	ND<13	ND<13	5J	ND<13	ND<13	ND<13	
Nickel	880	NC	NC	NT	ND<50	ND<50	NT	ND<50	ND<50	NT	ND<50	ND<50	ND<50	
Selenium	50	NC	NC	R	ND<10	ND<10	R	12	ND<10	R	ND<10	ND<10	ND<10	
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Zinc	123	NC	NC	NT	NT	ND<10	NT	ND<10	ND<10	NT	ND<10	ND<10	ND<10	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	ND<100	ND<100	NT	ND<100	ND<100	NT	ND<100	ND<100	ND<100	

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
- The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
- Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
		Residential	Industrial/ Commercial	MW-17D			MW-17S			MW-18		
				6-18-98	5-31-01	9-13-01	6-19-98	5-30-01	9-13-01	5-30-01	9-13-01	
Sample Collection Date												
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	NT	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)												
Acenaphthene	NC	NC	NC	ND<5.0	3.5	2.6	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	ND<0.30	ND<0.06	ND<0.06	ND<0.30	ND<0.06	ND<0.06	ND<0.06	ND<0.06	ND<0.06
Benzo[a]pyrene	0.3	NC	NC	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Benzo[g,h,i]perylene	NC	NC	NC	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chrysene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Fluorene	140,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	0.54	ND<0.077	ND<0.077	ND<0.07	0.71	ND<0.077	ND<0.077	ND<0.077	ND<0.077
Pyrene	110,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)												
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	NT	ND<1.0	ND<1.0	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Table 7
**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
		Residential	Industrial/ Commercial	MW-17D			MW-17S			MW-18		
				6-18-98	5-31-01	9-13-01	6-19-98	5-30-01	9-13-01	5-30-01	9-13-01	
Sample Collection Date												
Total Metals												
Arsenic	4	NC	NC	ND<50	ND<4	ND<4	ND<50	ND<4	ND<4	ND<4	ND<4	ND<4
Barium	NC	NC	NC	ND<500	110	120	ND<500	ND<50	80	ND<50	ND<50	ND<50
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Copper	48	NC	NC	NT	ND<40	ND<40	NT	ND<40	ND<40	ND<40	ND<40	ND<40
Lead	13	NC	NC	ND<5	ND<13	ND<13	ND<5	ND<13	ND<13	ND<13	ND<13	ND<13
Nickel	880	NC	NC	NT	ND<50	ND<50	NT	ND<50	ND<50	ND<50	ND<50	ND<50
Selenium	50	NC	NC	ND<10	26	ND<10	R	12	ND<10	11	ND<10	ND<10
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	123	NC	NC	NT	ND<10	ND<10	NT	ND<10	ND<10	ND<10	ND<10	ND<10
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	170	ND<100	NT	ND<100	ND<100	ND<100	ND<100	ND<100

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)							
		Residential	Industrial/ Commercial	MW-19			MW-20	MW-21			
				6-18-98	5-30-01	9-13-01	6-18-98	5-30-01	9-13-01		
Sample Collection Date											
USEPA Method 8082 PolychlorinatedBiphenyls (PCBs)	0.5	NC	NC	NT	ND<0.50	ND<0.50	NT	ND<1.0	ND<0.50	ND<0.50	
USEPA Method 8270 Polynuclear Aromatics (PAHs)											
Acenaphthene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<1.0	ND<5.0	
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<1.5	
Anthracene	1,100,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<1.0	ND<5.0	
Benzo[a]anthracene	0.3	NC	NC	ND<0.30	ND<0.06	ND<0.06	ND<0.30	ND<0.30	ND<0.06	4.9	
Benzo[a]pyrene	0.3	NC	NC	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.30	ND<0.20	4.8	
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.30	ND<0.08	6.8	
Benzo[g,h,i]perylene	NC	NC	NC	ND<20	ND<1.0	ND<1.0	ND<20	ND<20	ND<1.0	ND<5.0	
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	3.7	
Chrysene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<1.0	5.2	
Dibenz[a,h]anthracene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<20	ND<0.50	ND<2.5	
Fluoranthene	3,700	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<1.0	13	
Fluorene	140,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<1.0	ND<5.0	
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<20	ND<0.50	ND<2.5	
Phenanthrene	0.3	NC	NC	1.3	ND<0.077	ND<0.077	ND<0.07	ND<0.07	ND<0.077	1.8	
Pyrene	110,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<1.0	16	
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)											
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
4-Isopropyltoluene	NC	NC	NC	NT	ND<1.0	ND<1.0	NT	NT	ND<1.0	ND<1.0	
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	



Table 7
Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)						
		Residential	Industrial/ Commercial	MW-19			MW-20	MW-21		
Sample Collection Date				6-18-98	5-30-01	9-13-01	6-18-98	6-18-98	5-30-01	9-13-01
Total Metals										
Arsenic	4	NC	NC	ND<50	ND<4	ND<4	ND<50	ND<50	ND<4	ND<4
Barium	NC	NC	NC	ND<500	ND<50	ND<50	ND<500	ND<500	ND<50	83
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Copper	48	NC	NC	NT	ND<40	ND<40	NT	NT	ND<40	ND<40
Lead	13	NC	NC	ND<5	ND<13	ND<13	ND<5	ND<5	ND<13	ND<13
Nickel	880	NC	NC	NT	ND<50	ND<50	NT	NT	ND<50	ND<50
Selenium	50	NC	NC	R	ND<10	ND<10	R	R	ND<10	ND<10
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT
Zinc	123	NC	NC	NT	ND<10	ND<10	NT	NT	ND<10	ND<10
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	ND<100	860	NT	NT	520	2,200

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)									
		Residential	Industrial/ Commercial	MW-22			MW-50						
				6-18-98	5-31-01	9-11-01	3-14-00	6-20-00	9-25-00	12-18-00	6-1-01	9-12-01	
Sample Collection Date													
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NT	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)													
Acenaphthene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	NT	NT	NT	NT	NT	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	ND<0.30	ND<0.06	ND<0.06	NT	NT	NT	NT	NT	ND<0.06	ND<0.06
Benzo[a]pyrene	0.3	NC	NC	ND<0.30	ND<0.20	ND<0.20	NT	NT	NT	NT	NT	ND<0.20	ND<0.20
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.08	ND<0.08	NT	NT	NT	NT	NT	ND<0.08	ND<0.08
Benzo[g,h,i]perylene	NC	NC	NC	ND<20	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	NT	NT	NT	NT	NT	ND<0.30	ND<0.30
Chrysene	NC	NC	NC	ND<5.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	NT	NT	NT	NT	NT	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	ND<5.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Fluorene	140,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<20	ND<0.50	ND<0.50	NT	NT	NT	NT	NT	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	ND<0.07	ND<0.077	ND<0.077	NT	NT	NT	NT	NT	ND<0.077	ND<0.077
Pyrene	110,000	NC	NC	ND<5.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)													
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	2.1
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	NT	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	ND<1.0	ND<1.0



Table 7

**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)									
		Residential	Industrial/ Commercial	MW-22			MW-50						
				6-18-98	5-31-01	9-11-01	3-14-00	6-20-00	9-25-00	12-18-00	6-1-01	9-12-01	
Sample Collection Date													
Total Metals													
Arsenic	4	NC	NC	ND<50	ND<4	ND<4	NT	NT	NT	NT	ND<4	ND<4	
Barium	NC	NC	NC	ND<500	ND<50	ND<50	NT	NT	NT	NT	ND<50	59	
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	NT	NT	NT	NT	ND<5	ND<5	
Copper	48	NC	NC	NT	ND<40	ND<40	NT	NT	NT	NT	ND<40	ND<40	
Lead	13	NC	NC	ND<5	ND<13	ND<13	NT	NT	NT	NT	ND<13	ND<13	
Nickel	880	NC	NC	NT	ND<50	ND<50	NT	NT	NT	NT	ND<50	ND<50	
Selenium	50	NC	NC	ND<10	ND<10	ND<10	NT	NT	NT	NT	25	27	
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Zinc	123	NC	NC	NT	110	48	NT	NT	NT	NT	12	ND<10	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	ND<100	ND<100	NT	NT	NT	NT	350	240	

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

Table 7

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)						
		Residential	Industrial/ Commercial	MW-51						MW-51A ⁽¹⁾
				3-14-00	6-20-00	9-25-00	12-18-00	6-1-01	9-12-01	6-1-01
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)										
Acenaphthene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	NT	NT	NT	NT	ND<0.30	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	NT	NT	NT	NT	ND<0.06	0.11	ND<0.06
Benzo[a]pyrene	0.3	NC	NC	NT	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20
Benzo[b]fluoranthene	0.3	NC	NC	NT	NT	NT	NT	ND<0.08	0.18	ND<0.08
Benzo[g,h,i]perylene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	NT	NT	NT	NT	ND<0.30	ND<0.30	ND<0.30
Chrysene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	NT	NT	NT	NT	ND<0.50	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Fluorene	140,000	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	NT	NT	NT	NT	ND<0.50	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	NT	NT	NT	NT	ND<0.077	0.08	ND<0.077
Pyrene	110,000	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)										
Bromodichloromethane	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Chloroform	14,100	287	710	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	NT	NT	NT	NT	2.8	1.8	2.8
1,1-Dichloroethene	96	1	6	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0
Trichloroethene	2,340	219	540	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0

Table 7
Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)						
		Residential	Industrial/ Commercial	MW-51						MW-51A ⁽¹⁾
Sample Collection Date				3-14-00	6-20-00	9-25-00	12-18-00	6-1-01	9-12-01	6-1-01
Total Metals										
Arsenic	4	NC	NC	NT	NT	NT	NT	ND<4	ND<4	ND<4
Barium	NC	NC	NC	NT	NT	NT	NT	67	84	64
Cadmium	6	NC	NC	NT	NT	NT	NT	ND<5	ND<5	ND<5
Copper	48	NC	NC	NT	NT	NT	NT	ND<40	ND<40	ND<40
Lead	13	NC	NC	NT	NT	NT	NT	ND<13	ND<13	ND<13
Nickel	880	NC	NC	NT	NT	NT	NT	ND<50	ND<50	ND<50
Selenium	50	NC	NC	NT	NT	NT	NT	30	43	33
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT
Zinc	123	NC	NC	NT	NT	NT	NT	ND<10	ND<10	ND<10
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	NT	NT	NT	2,300	800	2,500

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.



**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)					
		Residential	Industrial/ Commercial	MW-52					
Sample Collection Date				3-14-00	6-20-00	9-25-00	12-18-00	5-31-01	9-13-01
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)									
Acenaphthene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	NT	NT	NT	NT	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	NT	NT	NT	NT	ND<0.06	0.68
Benzo[a]pyrene	0.3	NC	NC	NT	NT	NT	NT	ND<0.20	0.73
Benzo[b]fluoranthene	0.3	NC	NC	NT	NT	NT	NT	ND<0.08	1.1
Benzo[g,h,i]perylene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	NT	NT	NT	NT	ND<0.30	0.61
Chrysene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	NT	NT	NT	NT	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	NT	NT	NT	NT	ND<1.0	1.8
Fluorene	140,000	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	NT	NT	NT	NT	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	NT	NT	NT	NT	ND<0.077	0.39
Pyrene	110,000	NC	NC	NT	NT	NT	NT	ND<1.0	1.5
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)									
Bromodichloromethane	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0
Chloroform	14,100	287	710	NT	NT	NT	NT	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	NT	NT	NT	NT	1.7	4.2
1,1-Dichloroethene	96	1	6	NT	NT	NT	NT	1.7	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	NT	NT	NT	NT	1.9	1.2
1,1,1-Trichloroethane	62,000	20,400	50,000	NT	NT	NT	NT	16	14
Trichloroethene	2,340	219	540	NT	NT	NT	NT	ND<1.0	ND<1.0

Table 7

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)					
		Residential	Industrial/ Commercial	MW-52					
Sample Collection Date				3-14-00	6-20-00	9-25-00	12-18-00	5-31-01	9-13-01
Total Metals									
Arsenic	4	NC	NC	NT	NT	NT	NT	ND<4	ND<4
Barium	NC	NC	NC	NT	NT	NT	NT	ND<50	ND<50
Cadmium	6	NC	NC	NT	NT	NT	NT	ND<5	ND<5
Copper	48	NC	NC	NT	NT	NT	NT	ND<40	ND<40
Lead	13	NC	NC	NT	NT	NT	NT	ND<13	ND<13
Nickel	880	NC	NC	NT	NT	NT	NT	ND<50	75
Selenium	50	NC	NC	NT	NT	NT	NT	45	ND<10
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT
Zinc	123	NC	NC	NT	NT	NT	NT	ND<10	60
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	NT	NT	NT	960	1,500

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
- The reported concentration is an estimated quantity due to associated QA results found outside of recommended control limits.
- (1) = Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

Table 7

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
		Residential	Industrial/ Commercial	MW-53				MW-A				
				3-14-00	6-20-00	9-25-00	12-18-00	6-1-01	9-12-01	6-1-01	9-12-01	
USEPA Method 8082 PolychlorinatedBiphenyls (PCBs)	0.5	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)												
Acenaphthene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	NT	NT	NT	NT	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	NT	NT	NT	NT	ND<0.06	ND<0.06	ND<0.06	ND<0.06	ND<0.06
Benzo[a]pyrene	0.3	NC	NC	NT	NT	NT	NT	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Benzo[b]fluoranthene	0.3	NC	NC	NT	NT	NT	NT	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Benzo[g,h,i]perylene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	NT	NT	NT	NT	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chrysene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	NT	NT	NT	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Fluorene	140,000	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	NT	NT	NT	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	NT	NT	NT	NT	ND<0.077	0.21	ND<0.077	ND<0.077	ND<0.077
Pyrene	110,000	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)												
Bromodichloromethane	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chloroform	14,100	287	710	NT	NT	NT	NT	ND<1.0	ND<1.0	1.4	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	NT	NT	NT	NT	1.6	3.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethene	96	1	6	NT	NT	NT	NT	1.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	NT	NT	NT	NT	12	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Trichloroethene	2,340	219	540	NT	NT	NT	NT	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Table 7

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)							
		Residential	Industrial/ Commercial	MW-53				MW-A			
Sample Collection Date				3-14-00	6-20-00	9-25-00	12-18-00	6-1-01	9-12-01	6-1-01	9-12-01
Total Metals											
Arsenic	4	NC	NC	NT	NT	NT	NT	ND<4	ND<4	ND<4	ND<4
Barium	NC	NC	NC	NT	NT	NT	NT	ND<50	52	110	95
Cadmium	6	NC	NC	NT	NT	NT	NT	ND<5	ND<5	ND<5	ND<5
Copper	48	NC	NC	NT	NT	NT	NT	ND<40	ND<40	ND<40	ND<40
Lead	13	NC	NC	NT	NT	NT	NT	ND<13	ND<13	ND<13	ND<13
Nickel	880	NC	NC	NT	NT	NT	NT	ND<50	ND<50	ND<50	ND<50
Selenium	50	NC	NC	NT	NT	NT	NT	29	22	16	12
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	123	NC	NC	NT	NT	NT	NT	20	ND<10	18	ND<10
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	NT	NT	NT	NT	790	200	ND<100	ND<100

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
- The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
- Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)							
		Residential	Industrial/ Commercial	MW-BD		MW-BS		MW-C		MW-D	
				5-31-01	9-13-01	5-31-01	9-11-01	5-29-01	9-11-01	5-29-01	9-11-01
USEPA Method 8082 PolychlorinatedBiphenyls (PCBs)	0.5	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)											
Acenaphthene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	3.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	0.42	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	ND<0.06	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.99	ND<0.06	ND<0.06
Benzo[a]pyrene	0.3	NC	NC	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	0.78	ND<0.20	ND<0.20
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	0.92	ND<0.08	ND<0.08
Benzo[g,h,i]perylene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	0.47	ND<0.30	ND<0.30
Chrysene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.0	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.5	ND<1.0	ND<1.0
Fluorene	140,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.53	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	ND<0.077	ND<0.077	ND<0.077	0.14	0.16	3.2	ND<0.077	ND<0.077
Pyrene	110,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.1	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)											
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Table 7
Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
		Residential	Industrial/ Commercial	MW-BD		MW-BS		MW-C		MW-D		
				5-31-01	9-13-01	5-31-01	9-11-01	5-29-01	9-11-01	5-29-01	9-11-01	
Sample Collection Date												
Total Metals												
Arsenic	4	NC	NC	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4	6
Barium	NC	NC	NC	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Copper	48	NC	NC	ND<40	ND<40	ND<40	ND<40	71	ND<40	ND<40	ND<40	ND<40
Lead	13	NC	NC	ND<13	ND<13	ND<13	ND<13	55	ND<13	ND<13	ND<13	ND<13
Nickel	880	NC	NC	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Selenium	50	NC	NC	67	ND<10	ND<10	ND<10	58	ND<10	32	ND<10	ND<10
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	123	NC	NC	ND<10	ND<10	75	140	220	38	ND<10	13	
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	110	ND<100	ND<100	320	ND<100	160	ND<100	140	

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.



Table 7

Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)							
		Residential	Industrial/ Commercial	MW-E		MW-F		MW-G		MW-GA ⁽¹⁾	
				5-29-01	9-11-01	5-30-01	9-11-01	5-30-01	9-12-01	5-30-01	9-12-01
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)											
Acenaphthene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	1.9	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	0.47	ND<0.30	1.5	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	1.2	ND<1.0	2.5	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	ND<0.06	0.28	ND<0.06	3.1	ND<0.06	10	ND<0.06	0.71
Benzo[a]pyrene	0.3	NC	NC	ND<0.20	ND<0.20	ND<0.20	3.0	ND<0.20	11	ND<0.20	0.72
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.08	0.14	ND<0.08	3.4	ND<0.08	16	ND<0.08	1.0
Benzo[g,h,i]perylene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	2.1	ND<1.0	3.1	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	1.4	ND<0.30	5.8	ND<0.30	0.37
Chrysene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	3.1	ND<1.0	9.8	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.85	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	ND<1.0	ND<1.0	ND<1.0	8.0	ND<1.0	19	ND<1.0	1.2
Fluorene	140,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	2.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<0.50	ND<0.50	ND<0.50	2.0	ND<0.50	4.1	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	ND<0.077	0.22	0.27	6.7	ND<0.077	8.0	ND<0.077	0.47
Pyrene	110,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	6.7	ND<1.0	20	ND<1.0	1.3
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)											
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Table 7
Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)							
		Residential	Industrial/ Commercial	MW-E		MW-F		MW-G		MW-GA ⁽¹⁾	
Sample Collection Date				5-29-01	9-11-01	5-30-01	9-11-01	5-30-01	9-12-01	5-30-01	9-12-01
Total Metals											
Arsenic	4	NC	NC	ND<4	ND<4	ND<4	5	ND<4	ND<4	ND<4	ND<4
Barium	NC	NC	NC	57	73	ND<50	ND<50	130	140	130	140
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Copper	48	NC	NC	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40
Lead	13	NC	NC	ND<13	ND<13	ND<13	ND<13	14	ND<13	ND<13	ND<13
Nickel	880	NC	NC	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Selenium	50	NC	NC	21	ND<10	22	ND<10	16	13	17	14
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	123	NC	NC	ND<10	ND<10	70	ND<10	ND<10	ND<10	ND<10	ND<10
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	ND<100	ND<100	330	180	ND<100	ND<100	ND<100	110

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- ☐ = Concentration exceeds associated criterion.

TABLE 7

**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
		Residential	Industrial/ Commercial	MW-H		MW-I		MW-J		MW-K		MW-L
Sample Collection Date				5-29-01	9-13-01	5-29-01	9-14-01	7-25-01	9-11-01	7-25-01	9-11-01	10-15-02
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)												
Acenaphthene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	ND<0.06	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06	0.59	0.60	ND<0.06
Benzo[a]pyrene	0.3	NC	NC	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	0.48	0.43	ND<0.20
Benzo[b]fluoranthene	0.3	NC	NC	ND<0.08	ND<0.08	ND<0.08	ND<0.08	ND<0.08	0.09	0.63	0.46	ND<0.08
Benzo[g,h,i]perylene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	0.30	ND<0.30
Chrysene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.1	ND<1.0	ND<1.0
Fluorene	140,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	ND<0.077	ND<0.077	ND<0.077	ND<0.077	0.17	0.09	0.52	0.16	ND<0.077
Pyrene	110,000	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.3	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)												
Bromodichloromethane	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	15
Tetrachloroethene	88	1,500	3,820	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Table 7
Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)								
		Residential	Industrial/ Commercial	MW-H		MW-I		MW-J		MW-K		MW-L
Sample Collection Date				5-29-01	9-13-01	5-29-01	9-14-01	7-25-01	9-11-01	7-25-01	9-11-01	10-15-02
Total Metals												
Arsenic	4	NC	NC	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4
Barium	NC	NC	NC	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	72	71	ND<50
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Copper	48	NC	NC	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40
Lead	13	NC	NC	ND<13	ND<13	ND<13	ND<13	ND<13	ND<13	19	ND<13	ND<13
Nickel	880	NC	NC	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Selenium	50	NC	NC	23	ND<10	18	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
Vanadium	NC	NC	NC	NT	NT	NT	NT	NT	NT	NT	NT	ND<50
Zinc	123	NC	NC	ND<10	ND<10	18	18	25	ND<10	46	ND<10	13
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	220	ND<100	200	200	480	ND<100	250	150	330

Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA results found outside of recommended control limits.
- (1) = Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)					
		Residential	Industrial/ Commercial	MW-M	MW-N	MW-O	MW-P	RW-1 (6-in.)	
Sample Collection Date				10-15-02	10-15-02	10-15-02	10-15-02	6-1-01	9-12-01
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)									
Acenaphthene	NC	NC	NC	1.6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	NC	NC	0.74	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Anthracene	1,100,000	NC	NC	2.4	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[a]anthracene	0.3	NC	NC	3.4	0.70	ND<0.06	ND<0.06	ND<0.06	ND<0.06
Benzo[a]pyrene	0.3	NC	NC	3.9	0.69	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Benzo[b]fluoranthene	0.3	NC	NC	4.3	0.79	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Benzo[g,h,i]perylene	NC	NC	NC	2.2	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	NC	NC	1.8	0.38	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chrysene	NC	NC	NC	5.3	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Dibenz[a,h]anthracene	NC	NC	NC	0.67	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Fluoranthene	3,700	NC	NC	11	1.3	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Fluorene	140,000	NC	NC	1.7	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	NC	NC	2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Phenanthrene	0.3	NC	NC	6.2	0.81	ND<0.077	ND<0.077	ND<0.077	ND<0.077
Pyrene	110,000	NC	NC	9.3	1.6	ND<1.0	ND<1.0	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)									
Bromodichloromethane	NC	NC	NC	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0
Chloroform	14,100	287	710	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethane	NC	34,600	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	3.0	4.5
1,1-Dichloroethene	96	1	6	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
cis-1,2-Dichloroethene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Isopropyltoluene	NC	NC	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Tetrachloroethene	88	1,500	3,820	3.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	62,000	20,400	50,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.7	ND<1.0
Trichloroethene	2,340	219	540	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

**Comparison of Ground Water Sample Analyte Concentrations
to DEP Remediation Standard Regulations Numerical Criteria
QE/English Station, New Haven, CT**

Analyte	Surface Water Protection Criteria (µg/L)	Volatilization Criteria for Ground Water (ppb)		Ground Water Sample Concentrations (ppb)					
		Residential	Industrial/ Commercial	MW-M	MW-N	MW-O	MW-P	RW-1 (6-in.)	
Sample Collection Date				10-15-02	10-15-02	10-15-02	10-15-02	6-1-01	9-12-01
Total Metals									
Arsenic	4	NC	NC	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4
Barium	NC	NC	NC	ND<50	210	66	57	ND<50	ND<50
Cadmium	6	NC	NC	ND<5	ND<5	ND<5	ND<5	ND<5	ND<5
Copper	48	NC	NC	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40
Lead	13	NC	NC	ND<13	ND<13	ND<13	ND<13	ND<13	ND<13
Nickel	880	NC	NC	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Selenium	50	NC	NC	ND<10	ND<10	ND<10	ND<10	16	15
Vanadium	NC	NC	NC	ND<50	ND<50	ND<50	250	NT	NT
Zinc	123	NC	NC	ND<10	ND<10	17	ND<10	290	300
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NC	NC	1,000	4,400	ND<100	ND<100	520	360

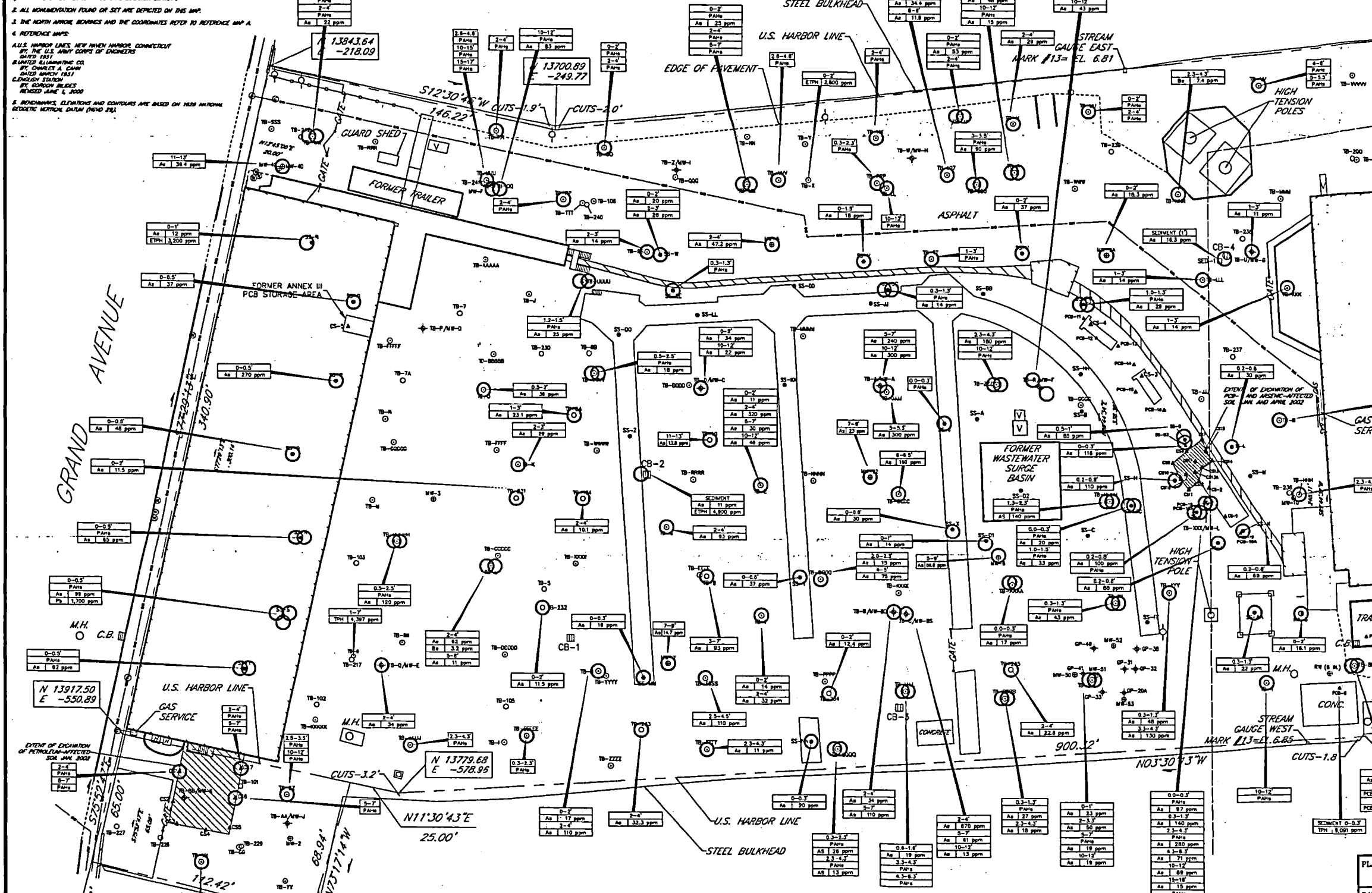
Notes:

- NC = No criterion established.
- ND = Not detected above laboratory minimum detection limit.
- NT = Not tested.
- ppb = parts per billion.
- µg/L = micrograms per liter (comparable to ppb).
- R = Analyte was tested for, but data validation findings indicate that the testing results are unusable
- J = based on QA/QC for that test.
The reported concentration is an estimated quantity due to associated QA
- (1) = results found outside of recommended control limits.
Duplicate sample for quality control (QC) purposes.
- = Concentration exceeds associated criterion.

NOTES:

- THIS MAP AND SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-200B-1 THRU 20-200B-10, THE ANNUAL STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT ENFORCED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC., (A) THE HORIZONTAL ACCURACY CONFORMS TO CLASS 3-3, THE VERTICAL ACCURACY CONFORMS TO CLASS 3-3 AND THE POSITIONAL ACCURACY CONFORMS TO CLASS 3-3; (B) THE BEARING DETERMINATION CATEGORY IS A "RESURVEY"; (C) THE TYPE OF SURVEY IS A "GENERAL LOCATION SURVEY".
- ALL MONUMENTATION FOUND OR SET ARE DEPICTED ON THIS MAP.
- THE NORTH ARROW, BEARINGS AND THE COORDINATES REFER TO REFERENCE MAP A.
- REFERENCE MAPS:
 A. U.S. HARBOR LINES, NEW HAVEN HARBOR, CONNECTICUT BY THE U.S. ARMY CORPS OF ENGINEERS DATED 1951.
 B. UNITED STATES GEOLOGICAL SURVEY, CHARLES A. CURTIS DATED MARCH 1951.
 C. LENOX STATION BY GEORGE BULLOCK REVISION JUNE 4, 1900.
- BOUNDARIES, ELEVATIONS AND CONTIGUOUS ARE BASED ON NEW HAVEN GEODETIC NETWORK DATUM (NHD 83).

EAST BRANCH MILL RIVER



GENERAL NOTES:

- GROUND WATER MONITORING WELLS MW-1, MW-2, MW-6 AND MW-20 INSTALLED BY GEJ WERE NOT LOCATED.
- RED SAMPLE POINTS REPRESENT SAMPLES NOT LOCATED BY SURVEYOR AND HAVE BEEN LOCATED USING FIELD MEASUREMENTS OR INFORMATION PROVIDED BY GEJ.

LEGEND

- SED-1-0 SEDIMENT SAMPLE COLLECTED BY GEJ
- MA-1-0 SURFACE SOIL SAMPLE COLLECTED BY GEJ
- HA-1-0 HAND AUGER SOIL SAMPLE COLLECTED BY GEJ
- CS-1-A CONCRETE CHIP SAMPLE COLLECTED BY GEJ
- SS-A-0 SURFACE SOIL SAMPLE COLLECTED BY AEI
- CS1-A CONFIRMATION SOIL SAMPLE COLLECTED BY AEI
- TB-A-0 TEST BORING INSTALLED BY AEI
- TB-1-0 TEST BORING INSTALLED BY GEJ
- TB-W/MW-0 GROUND WATER MONITORING WELL INSTALLED BY AEI
- MW-1-0 GROUND WATER MONITORING WELL INSTALLED BY OTHERS
- GP-0-0 GEOPROBE GROUND WATER MONITORING WELL INSTALLED BY OTHERS

RED SAMPLE POINTS REPRESENT SAMPLES NOT LOCATED BY SURVEYOR AND HAVE BEEN LOCATED USING FIELD MEASUREMENTS OR INFORMATION PROVIDED BY GEJ.

GROUND WATER MONITORING WELLS MW-1, MW-2, MW-6 AND MW-20 INSTALLED BY GEJ ARE NOT PRESENT.

KEY TO ANALYTICAL RESULTS

0.2-0.8' — SAMPLE DEPTH BELOW GRADE IN FEET
 As 30 ppm — CONSTITUENT/CONCENTRATION IN PPM

ppm PARTS PER MILLION
 As ARSENIC
 Pb LEAD
 PCBs POLYCHLORINATED BIPHENYLS
 Be BERYLLIUM
 ETPH/TPH EXTRACTABLE TOTAL PETROLEUM HYDROCARBONS/
 TOTAL PETROLEUM HYDROCARBONS
 PAHs POLYAROMATIC HYDROCARBONS

NOTES:

- ONLY CONCENTRATIONS ABOVE OR ANALYTES THAT EXCEED REMEDIATION STANDARD REGULATIONS (RSR) INDUSTRIAL/COMMERCIAL (I/C) DIRECT EXPOSURE CRITERIA (DEC) ARE SHOWN.
- A COLORED CIRCLE AROUND SAMPLE LOCATION INDICATES EXCEEDANCE OF THE I/C DEC OF THE ASSOCIATED ANALYTE.

BASE MAP TAKEN FROM:
 GENERAL LOCATION SURVEY
 PROPERTY OF
QUINNIPIAC ENERGY, LLC
 310 GRAND AVENUE
 NEW HAVEN, CONNECTICUT
 SCALE: 1"=40' JANUARY 4, 2002

GODFREY-HOFFMAN ASSOCIATES, LLC
 PROFESSIONAL LAND SURVEYORS, ENGINEERS & DESIGNERS
 801 DUFFELL AVENUE - SUITE 1901 HARTFORD, CONNECTICUT
 06118 TEL: 803-848-4217 FAX: 803-848-6381
 www.godfreyhoffman.com
 PROJECT: 01-162 SHEET 1 OF 1

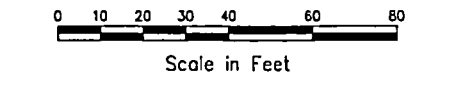


PLATE 3-2a	SOIL SAMPLE ANALYTICAL SUMMARY (NORTHERN PORTION OF SITE): EXCEEDANCES OF INDUSTRIAL/COMMERCIAL DIRECT EXPOSURE CRITERIA	
DATE 1/17/03	PREPARED FOR QUINNIPIAC ENERGY LLC ENGLISH STATION, NEW HAVEN, CT	
SITE ID -		
	PROJECT No. AEI-00T-030	DRAWING No. 00T-03C.1
	DRAWN BY J.J.S.	CHECKED BY T.N.W.
SIZE D	SCALE AS SHOWN	

Table D-1

GROUND WATER SAMPLING RESULTS FOR SEVEN STATION B PARCEL WELLS

Analyte	Surface Water Protection Criteria (µg/L)	Ground Water Sample Concentrations (ppb)							
		MW-04S			MW-05			MW-0S	
Sample Collection Date		6-18-98	5-31-01	9-14-01	6-18-98	5-30-01	9-14-01	5-31-01	9-11-01
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	NT	ND<0.50	ND<0.50	NT	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)									
Acenaphthene	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Benzo[a]anthracene	0.3	ND<0.30	ND<0.06	ND<0.06	ND<0.30	ND<0.06	ND<0.06	ND<0.06	ND<0.06
Benzo[a]pyrene	0.3	ND<0.30	ND<0.20	ND<0.20	ND<0.30	ND<0.20	ND<0.20	ND<0.20	ND<0.20
Benzo[b]fluoranthene	0.3	ND<0.30	ND<0.08	ND<0.08	ND<0.30	ND<0.08	ND<0.08	ND<0.08	ND<0.08
Benzo[g,h,i]perylene	NC	ND<20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Chrysene	NC	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Fluoranthene	3,700	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Fluorene	140,000	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	ND<20	ND<0.50	ND<0.50	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Phenanthrene	0.3	ND<0.07	ND<0.07	ND<0.07	ND<0.07	ND<0.07	ND<0.07	ND<0.07	0.14
Pyrene	110,000	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
USEPA Method 8021B/8260 Volatile Organic Compounds (VOCs)									
Chloroform	14,100	ND<1.0	ND<1.0	ND<1.0	4.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Total Metals									
Arsenic	4	ND<50	ND<4	ND<4	ND<50	ND<86	ND<29	ND<4	ND<4
Barium	NC	ND<500	ND<50	81	ND<500	ND<50	ND<50	ND<50	ND<50
Copper	48	NT	78	ND<40	NT	ND<40	ND<40	ND<40	ND<40
Lead	13	ND<5	ND<13	ND<13	22	ND<13	ND<13	ND<13	ND<13
Selenium	50	ND<10	ND<10	ND<10	ND<10	14	ND<10	ND<10	ND<10
Zinc	123	NT	120	40	NT	ND<10	ND<10	75	140
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	NT	ND<100	ND<100	NT	ND<100	ND<100	ND<100	320

NC	=	No criterion established.
ND	=	Not detected above laboratory minimum detection limit.
NT	=	Not tested.
ppb	=	parts per billion.
µg/L	=	micrograms per liter (comparable to ppb).
(1)	=	Duplicate sample for quality control (QC) purposes.
.	=	Concentration exceeds associated criterion.

Note 1: Other monitoring wells exist on the Station B Parcel; sample results for those are all included in the previous report documenting widespread polluted fill.
 Note 2: Other analytes on the 8260 and 8270 scans, and ten other metals, were tested for, but are not included in this table because there were no hits in any of these seven monitoring wells.

Table D-1 (cont)

Analyte	Surface Water Protection Criteria (µg/L)	Ground Water Sample Concentrations (ppb)							
		MW-C		MW-D		MW-E		MW-K	
		5-29-01	9-11-01	5-29-01	9-11-01	5-29-01	9-11-01	3-14-01	9-11-01
Sample Collection Date		5-29-01	9-11-01	5-29-01	9-11-01	5-29-01	9-11-01	3-14-01	9-11-01
USEPA Method 8082 Polychlorinated Biphenyls (PCBs)	0.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
USEPA Method 8270 Polynuclear Aromatics (PAHs)									
Acenaphthene	NC	ND<1.0	3.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Acenaphthylene	0.3	ND<0.30	0.42	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30
Benzo[a]anthracene	0.3	ND<0.06	0.99	ND<0.06	ND<0.06	ND<0.06	0.28	0.59	0.50
Benzo[a]pyrene	0.3	ND<0.20	0.78	ND<0.20	ND<0.20	ND<0.20	ND<0.20	0.48	0.43
Benzo[b]fluoranthene	0.3	ND<0.08	0.92	ND<0.08	ND<0.08	ND<0.08	0.14	0.63	0.46
Benzo[g,h,i]perylene	NC	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Benzo[k]fluoranthene	0.3	ND<0.30	0.47	ND<0.30	ND<0.30	ND<0.30	ND<0.30	ND<0.30	0.30
Chrysene	NC	ND<1.0	1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Fluoranthene	3,700	ND<1.0	2.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.1	ND<1.0
Fluorene	140,000	ND<1.0	2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Indeno[1,2,3-cd]pyrene	NC	ND<0.50	0.53	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Phenanthrene	0.3	0.16	3.2	ND<0.07	ND<0.07	ND<0.07	0.22	0.52	0.16
Pyrene	110,000	ND<1.0	2.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.3	ND<1.0
USEPA Method 821B/8260 Volatile Organic Compounds (VOCs)									
Chloroform	14,100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Total Metals									
Arsenic	4	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4	ND<4
Barium	NC	ND<50	ND<50	ND<50	ND<50	57	73	72	71
Copper	48	71	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40	ND<40
Lead	13	55	ND<13	ND<13	ND<13	ND<13	ND<13	19	ND<13
Selenium	50	58	ND<10	32	ND<10	21	ND<10	ND<10	ND<10
Zinc	123	220	38	ND<10	13	ND<10	ND<10	46	ND<10
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	NC	ND<100	160	ND<100	140	ND<100	ND<100	250	150

NC	=	No criterion established.
ND	=	Not detected above laboratory minimum detection limit.
NT	=	Not tested.
ppb	=	parts per billion.
µg/L	=	micrograms per liter (comparable to ppb).
(1)	=	Duplicate sample for quality control (QC) purposes.
	=	Concentration exceeds associated criterion.

Note: Other monitoring wells exist on the Station B Parcel; sample results for those are all included in the previous report documenting widespread polluted fill.
 Note 2: Other analytes on the 8260 and 8270 scans, and ten other metals, were tested for, but are not included in this table because there were no hits in any of these seven monitoring wells.

Table 1
PCB Cleanup Specifications for Historical Spills at QE English Station

Federal Regulation Matrix				
Nature of Usage / Access (a)	Nature of PCB Matrix Material	Cleanup Options (b)	Numerical PCB Decon Specification (c)	Citation (40 CFR 761...)
High occupancy (worker presence ≥840 hr/yr or ≥16.8 hr/wk)	Non-porous	Wash and rinse surface, dispose of waste solution	10 µg/100 cm ² on wipe sample	61(a)(4)(ii)
	Concrete (or other porous)	Scarify concrete surface, dispose of waste concrete	1 ppm in concrete remaining	61(a)(4)(iii); 61(a)(4)(i)(A)
		Encapsulate with soil/asphalt/concrete (d), with deed restriction	10 ppm in concrete remaining	above + 61(a)(7)+(8)
		Double-wash concrete surface, let dry, paint over, apply ML mark	— (e)	61(a)(4)(iii); 30(p)(1)
	Soil	Remove and dispose, with no further constraints	≤ 1ppm in soil remaining	61(a)(4)(i)(A)
Remove and dispose, cap remaining soil, with deed restriction		≤ 10 ppm in soil remaining	above + 61(a)(7)+(8)	
Low occupancy (worker presence <840 hr/yr or <16.8 hr/wk)	Non-porous	Wash and rinse surface, dispose of waste solution	100 µg/100 cm ² on wipe sample	61(a)(4)(ii)
	Concrete (or other porous)	Scarify concrete surface and dispose of waste concrete	1 ppm in concrete remaining	61(a)(4)(iii); 61(a)(4)(i)(A)
		Encapsulate with soil/asphalt/concrete (d), with deed restriction	10 ppm in concrete remaining	above + 61(a)(7)+(8)
		Double-wash concrete surface, let dry, paint over, apply ML mark	— (e)	61(a)(4)(iii); 30(p)(1)
	Soil	Remove and dispose, with no further constraints	≤ 25 ppm in soil remaining	61(a)(4)(i)(B)(1)
		Remove and dispose, fence off, apply ML mark	≤ 50 ppm in soil remaining	61(a)(4)(i)(B)(2)
		Remove and dispose, cap remaining soil (d), with deed restriction	≤ 100 ppm in soil remaining	61(a)(4)(i)(B)(3); 61(a)(7)+(8)

CT Regulation Matrix (RSRs) (Applies Only to Soils)

Nature of Usage / Access (f)	Cleanup Options (g)	Numerical PCB Decon Specification (h)	Citation (RCSA 22a-133k-...)
Residential use per RSRs	Excavate and remove soil	1 ppm in soil remaining	2(b)(1); Appendix A
Industrial/commercial use per RSRs in a non-restricted access area	Cap to make soil inaccessible (i), apply ELUR (j)	10 ppm in soil remaining (k)	2(b)(2)(B); Appendix A; EPOC Review, Mar 2003 (k)
Industrial/commercial use per RSRs in an other restricted access area	Cap to make soil inaccessible (i), apply ELUR (j)	25 ppm in soil remaining	2(b)(3)(A); Appendix A
Industrial/commercial use per RSRs in an outdoor electrical substation	Cap to make soil inaccessible (i), apply ELUR (j)	25 ppm in soil remaining	2(b)(3)(B); Appendix A
	Cap to make soil inaccessible (i), apply ELUR (j), apply ML mark	50 ppm in soil remaining	2(b)(3)(B); Appendix A

- (a) All areas of the English Station site where PCB contamination has been found presently are low occupancy areas (a defined term, meaning that a person is present in the area less than 840 hrs/yr and also present less than 16.8 hrs/wk). Since the Station B Parcel is to be sold (for future industrial use), the federal cleanup specifications for high occupancy areas apply to this portion of the site.
- (b) For the Station B Parcel, concrete surfaces will be scarified down to the 1 ppm level (and confirmed) rather than the other options, whenever practicable, and debris will be removed for appropriate offsite disposal. Soil will be excavated to achieve a 10 ppm level, with a cap and an ELUR. The 10 ppm level is consistent with the PCB direct exposure criteria for industrial/commercial sites under the Connecticut Remediation Standards Regulations (RSRs). The 1 ppm level is consistent with the PCB direct exposure criteria for residential sites under the RSRs. The ELUR will identify (among other types of residual contamination zones) any PCB residual areas requiring a deed restriction under 40 CFR 761.61. An ELUR is the appropriate CT vehicle for deed restrictions (see below); it will be structured and worded to satisfy the federal requirements, including a designation of property usage.

Table 1 (continued)

PCB Cleanup Specifications for Historical Spills at QE English Station

- (c) These are the specifications in the PCB rules at 40 CFR 761.61 for cleanup of historical spills; not the rules for cleanup of fresh spills under the EPA policy at 40 CFR 761.125. "In soil remaining" or "in concrete remaining" means the residual PCB content in those media left onsite unremediated.
- (d) A cap comprised of 10 inches of compacted fill, or 6 inches of concrete, or 6 inches of asphalt constitutes satisfactory encapsulation under the federal PCB rules. (The cap required for compliance with the Connecticut RSRs is somewhat different (see below) but satisfies the federal requirement.)
- (e) There is no numerical cleanup criterion, because the underlying presumption is that the specified double-wash/rinse technique will render the surface suitable for painting and that the paint will adhere well enough to prevent any contact exposure with residual PCBs remaining in the concrete. If the concrete staining is known to have occurred from contact with oil containing less than 50 ppm PCBs, then cleanup and surface sealing of this sort is not required.
- (f) The Connecticut RSRs define just two kinds of uses with respect to direct exposure cleanup criteria: residential use, and commercial/industrial use. The sections of the RSRs that relate to cleanup of PCB-contaminated soils, however, contain provisions that refer (either directly or inferentially) to definitions in the EPA spill cleanup policy at 40 CFR 761.123, as follows:
- "*Residential/commercial area*" means areas where people live or reside, including roads and sidewalks to which the public has access. The nearest area to English Station that is actually zoned residential or commercial is northeast of Grand Ave and Haven St; all the areas closer to the Station are zoned IH or IL (heavy industrial or light industrial). However, Grand Avenue itself is a *residential/commercial area* under this definition because it is open to public access; in addition to transient vehicles and pedestrians, there is occasional public fishing off the Grand Avenue bridge.
 - "*Outdoor electrical substation*" means an outdoor, fenced-off restricted access area used for electrical transmission/distribution, and more than 100 m from a residential/commercial area. All of the capacitor and transformer pads at English Station fit this definition; none are closer than 100 m to a zoned residential/commercial area or to Grand Avenue. These areas are delineated on Figure 1.
 - "*Other restricted access location*" means areas other than substations that are at least 100 m from a residential/commercial area, and are limited by manmade barriers such as fences and walls, or natural barriers. All of English Station is further than 100 m from the nearest zoned residential/commercial area north of Grand Ave and Haven St. Most of English Station (the area south of the approximate center of the coal yard) is further than 100 m from Grand Avenue. The island is surrounded by water on three sides, with a vertical bulkhead wall, and has security gates at the Grand Avenue access. These areas are delineated on Figure 1.
 - "*Nonrestricted access area*" means anything not in the above two definitions. At English Station this is the area north of an approximate east-west midline through the coal yard, including Station B and the planned parking area to the south of Station B. These areas are delineated on Figure 1.
- (g) The cleanup options in the Connecticut RSRs only apply to soils, not to cleanup of concrete or non-porous materials, and not to sediments. Sediments exist in catch basins on the Station B Parcel; generally, these will be removed if >1 ppm; but if not easily accessible may be left in place (up to the 10 ppm criterion) and simply sealed off. There is a general provision in the RSRs for a variance to allow other cleanup options. Such a variance may be applied for, and reviewed and approved by DEP on a case-by-case basis, but there is no particular expectation that a variance outside of the above numerical cleanup standards would be applied for in this case.
- (h) These are the standards for remediation specified in the Connecticut RSRs at RCSA 22a-133k. "In soil remaining" means the residual PCB content in the soils left onsite unremediated.
- (i) Rendering the soil "inaccessible" as defined in the RSRs means installing a cap consisting of four feet of soil, or a cap consisting of two feet of soil including a 3-inch concrete or asphalt layer on top. Alternatively, a building can be built over an area to render it inaccessible.
- (j) The environmental land use restriction (ELUR) specified in the RSRs has a prescriptive form and content developed by DEP explicitly for site remediation purposes; in this situation, the appropriate language also will be added to comport with federal requirements.
- (k) The language discrepancy between RCSA 22a-133k-2(b)(2)(B) for PCBs in residential or "non-restricted access" areas, and RCSA 22a-133k-2(b)(2)(A) for contaminants other than PCBs in those same areas was clarified in a DEP workshop presentation to the Environmental Professionals Organization of Connecticut on March 25, 2003, page 13. So long as the soil is rendered "inaccessible" (which includes an environmental land use restriction), the cleanup criterion is 10 ppm.

Table A1.1a

Sampling and Analysis Data: Station B Interior—Overhead Crane

Area 1.1: Station B—Overhead Crane

AOC #:	1
PCB Area Description:	Overhead crane: motor and non-porous steel surface
Location Reference:	Figure A1.1 (Individual sample locations not shown.)
Sample Matrix:	Motor oil; hexane wipe of steel surface
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg); micrograms per 100 square centimeters (µg/100 sq. cm)
Laboratory Results in:	Appendix A

Characterization Samples			Verification Samples			Cleanup Criterion
Sample Point	Sampling Date (Analysis Date)	Sample Result	Sample Point	Sampling Date (Analysis Date)	Sample Result	
MOTOR OIL			MOTOR OIL			MOTOR OIL
NEM ⁽¹⁾	07-18-01 (07-25-01)	6.6 ⁽¹⁾	RS-CS1 ⁽¹⁾	03-21-02 (03-28-02)	ND < 2.0 ⁽¹⁾	2.0
SEM ⁽¹⁾	07-18-01 (07-25-01)	6.6 ⁽¹⁾				2.0
11-16-MISC-113 ⁽²⁾	11-18-99 (11-29-99)	4.0 ⁽²⁾				2.0
HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE
CR-CS01	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS02	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS03	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS04	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS05	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS06	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS07	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS08	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS09	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS10	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS11	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS12	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS13	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS14	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS15	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS16	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS17	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS18	03-21-02 (04-04-02)	ND < 5.0	CR-CS18B	04-19-02 (04-23-02)	ND < 5.0	10.0
CR-CS19	03-21-02 (03-26-02)	25	CR-CS19B	04-19-02 (04-23-02)	ND < 5.0	10.0
CR-CS20	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS21	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS22	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS23	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS24	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS25	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS26	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS27	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS28	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS29	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS30	03-21-02 (03-26-02)	ND < 5.0				10.0

Table A1.1a (continued)

Sampling and Analysis Data: Station B Interior—Overhead Crane

Characterization Samples			Verification Samples			Cleanup Criterion
Sample Point	Sampling Date (Analysis Date)	Sample Result	Sample Point	Sampling Date (Analysis Date)	Sample Result	
HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE
CR-CS31	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS32	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS33	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS34	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS35	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS36	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS37	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS38	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS39	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS40	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS41	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS42	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS43	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS44	03-21-02 (03-26-02)	ND < 5.0				10.0
CR-CS45	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS46	03-21-02 (04-04-02)	ND < 5.0				10.0
CR-CS47	03-21-02 (03-26-02)	ND < 5.0				10.0
Field Blank 1	03-21-02 (03-26-02)	ND < 5.0				NA
Field Blank 2	03-21-02 (04-12-02)	ND < 5.0				NA
Field Blank 3	03-21-02 (04-12-02)	ND < 5.0				NA

Notes for Table A1.1a:

(1) = Sample of oil from a motor on the crane. Result reported as milligrams per kilogram (mg/kg), wet weight.

(2) = Result reported by GEI Consultants, Inc., who did not indicate that the result is reported as wet weight.

NA = Not applicable.

ND = Not detected.

< = Less than minimum detection limit.

Bold indicates that detected concentration exceeds associated cleanup criterion.

Table A1.1b

Sampling and Analysis Data: Station B Interior—Mezzanine and First Floor

Area 1.1: Station B—Mezzanine and first floor

AOC #:	I
PCB Area Description:	Mezzanine and first floor, excluding Annex III
Location Reference:	Figure A1.1 (AEI Sample Points only)
Sample Matrix:	Concrete; wood
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix A

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
FIRST FLOOR: CONCRETE FLOOR				CONCRETE
11-16-MISC-121 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0	1.0
1CO-01	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
1CO-02	½ inch	06-16-2004 (06-22-2004)	0.57	1.0
1CO-03	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
1CO-04	½ inch	06-16-2004 (06-22-2004)	0.98	1.0
1CO-05	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
1CO-05D	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
1CO-06	½ inch	06-16-2004 (06-22-2004)	0.52	1.0
1CO-07	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
1CO-08	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
1CO-09	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
1CO-10	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
1CO-11	½ inch	06-16-2004 (06-22-2004)	ND < 0.50	1.0
FIRST FLOOR: WOOD CHIPS				WOOD
11-16-MISC-123 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0	1.0
MEZZANINE: WOOD CHIPS				WOOD
11-16-MISC-124 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0	1.0
11-16-MISC-125 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0	1.0

Notes for Table A1.1b:

(1) = Result reported by GEI Consultants, Inc., who did not indicate that the results are reported as dry weight.

ND = Not Detected.

NS = Not Specified.

< = Less than minimum detection limit.

Table A1.2

Sampling and Analysis Data: Station B Interior—Annex III Facility

Area 1.2: Station B—Annex III

AOC #:	I
PCB Area Description:	Annex III: porous concrete floor and containment berm
Location Reference:	Figures A1.1, A1.2 (AEI Sample Points only.)
Sample Matrix:	Concrete
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix A

Characterization Samples			1 st and 2 nd Verification Samples ⁽¹⁾			Cleanup Criterion
Sample Point	Sampling Date (Analysis Date)	Sample Result	Sample Point	Sampling Date (Analysis Date)	Sample Result	
ANNEX III CONCRETE FLOOR			ANNEX III CONCRETE FLOOR			CONCRETE
ICO-14	06-16-04 (06-22-04)	ND < 0.50				1.0
A-1	07-18-01 (07-20-01)	ND < 0.50				1.0
A-2	07-18-01 (07-20-01)	ND < 0.50				1.0
A-3	07-18-01 (07-20-01)	ND < 0.50				1.0
A-4	07-18-01 (07-20-01)	ND < 0.50				1.0
B-1	07-18-01 (07-20-01)	17.4	J-1	05-09-02 (05-14-02)	ND < 0.50	1.0
			I-1	05-09-02 (05-14-02)	0.50	1.0
B-2	07-18-01 (07-20-01)	45	K-1.5	08-26-02 (08-29-02)	ND < 0.50	1.0
			J-2	05-09-02 (05-14-02)	ND < 0.50	1.0
			I-2	05-09-02 (05-14-02)	1.6	1.0
B-3	07-18-01 (07-20-01)	2.4	K-2.5	08-26-02 (08-29-02)	1.4	1.0
			J-3	05-09-02 (05-14-02)	ND < 0.50	1.0
			I-3	05-09-02 (05-14-02)	1.1	1.0
B-4	07-18-01 (07-20-01)	ND < 0.50	I-3a ⁽²⁾	05-09-02 (05-14-02)	0.65	1.0
			K-3.5	08-26-02 (08-29-02)	ND < 0.50	1.0
ICO-13	06-16-04 (06-22-04)	ND < 0.50	K-3.5 dup	08-26-02 (08-29-02)	ND < 0.50	1.0
ICO-15	06-16-04 (06-22-04)	ND < 0.50	J-4	05-09-02 (05-14-02)	ND < 0.50	1.0
C-1	07-18-01 (07-20-01)	1.3	I-4	05-09-02 (05-14-02)	ND < 0.50	1.0
						1.0
C-2	07-18-01 (07-20-01)	1.5	H-1	05-09-02 (05-14-02)	ND < 0.50	1.0
			L-1.5	08-26-02 (08-29-02)	ND < 0.50	1.0
C-3	07-18-01 (07-20-01)	0.98	H-2	05-09-02 (05-14-02)	ND < 0.50	1.0
			L-2.5	08-26-02 (08-29-02)	ND < 0.50	1.0
C-4	07-18-01 (07-20-01)	ND < 0.50	H-3	05-09-02 (05-14-02)	ND < 0.50	1.0
D-1	07-18-01 (07-20-01)	0.94	L-3.5	08-26-02 (08-29-02)	ND < 0.50	1.0
D-2	07-18-01 (07-20-01)	0.77				1.0
D-3	07-18-01 (07-20-01)	ND < 0.50				1.0
D-4	07-18-01 (07-20-01)	ND < 0.50				1.0
E-1	07-18-01 (07-20-01)	0.69				1.0
E-2	07-18-01 (07-20-01)	0.98				1.0
E-3	07-18-01 (07-20-01)	0.51				1.0
E-4	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾				1.0

Table A1.2 (continued)

Sampling and Analysis Data: Station B Interior—Annex III Facility

Characterization Samples			1 st and 2 nd Verification Samples ⁽¹⁾			Cleanup Criterion
Sample Point	Sampling Date (Analysis Date)	Sample Result	Sample Point	Sampling Date (Analysis Date)	Sample Result	
ANNEX III CONCRETE FLOOR			ANNEX III CONCRETE FLOOR			CONCRETE
ICO-16	06-16-04 (06-22-04)	ND < 0.50				1.0
SE-1	07-18-01 (07-20-01)	0.80				1.0
ICO-12	06-16-04 (06-22-04)	ND < 0.50				1.0
F-2	07-18-01 (07-20-01)	ND < 0.50				1.0
F-3	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾				1.0
F-4	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾				1.0
SF-1	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾				1.0
SF-3	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾				1.0
G-2	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾				1.0
G-3	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾				1.0
						1.0
			Field blank	05-09-02 (05-13-02)	ND < 0.50 ⁽⁴⁾	NA
			Equip. Blank	08-26-02 (08-29-02)	ND < 10 ⁽⁴⁾	NA
ICO-EB01	06-16-04 (06-21-04)	ND < 12 ⁽⁴⁾				NA
CS-5 ⁽⁵⁾	06-11-98 (06-23-98)	15				1.0
11-16-MISC- 114 ⁽⁵⁾	11-18-99 (11-29-99)	ND < 1.0				1.0
11-16-MISC- 115 ⁽⁵⁾	11-18-99 (11-29-99)	ND < 1.0				1.0
11-16-MISC- 116 ⁽⁵⁾	11-18-99 (11-29-99)	ND < 1.0				1.0

Notes for Table A1.2:

- (1) = Sample locations selected using a 5-foot grid.
 - (2) = Duplicate sample.
 - (3) = Minimum detection limit (MDL) affected by matrix interference.
 - (4) = Water matrix. Units are micrograms per liter (µg/L).
 - (5) = Result reported by GEI Consultants, Inc., who did not indicate that the results are reported as dry weight.
- ND = Not Detected.
 < = Less than minimum detection limit.
Bold indicates that detected concentration exceeds associated cleanup criterion.
 Depth = ½ inch for all AEI samples. Depth not specified for GEI samples.

Table A1.3

Sampling and Analysis Data: Station B Interior—Basement

Area 1.3: Station B—Basement

AOC #:	1
PCB Area Description:	Basement: concrete pads and former earthen floor
Location Reference:	Figure A1.3 (AEI Sample Points only)
Sample Matrix:	Concrete; soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix A

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
CONCRETE				CONCRETE
11-16-MISC-117 ⁽¹⁾	NS	11-18-1999 (11-29-1999)	ND < 1.0	1.0
11-16-MISC-118 ⁽¹⁾	NS	11-18-1999 (11-29-1999)	ND < 1.0	1.0
11-16-MISC-119 ⁽¹⁾	NS	11-18-1999 (11-29-1999)	ND < 1.0	1.0
11-16-MISC-120 ⁽¹⁾	NS	11-18-1999 (11-29-1999)	1.0	1.0
11-16-MISC-122 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0	1.0
SOIL				SOIL
SS-N	0.0-1.0	05-02-2001 (05-18-2001)	ND < 0.50	10.0
SS-O	0.0-0.5	05-02-2001 (05-04-2001)	ND < 0.50	10.0
SS-P	0.0-0.5	05-02-2001 (05-04-2001)	ND < 0.50	10.0
SS-Q	0.0-0.5	05-02-2001 (05-04-2001)	ND < 0.50	10.0
SS-R	0.0-0.5	05-02-2001 (05-18-2001)	ND < 0.50	10.0
SS-S	0.0-0.5	05-02-2001 (05-04-2001)	ND < 0.50	10.0
SS-T	0.0-0.5	05-02-2001 (05-18-2001)	ND < 0.50	10.0

Notes for Table A1.3:

(1) = Result reported by GEI Consultants, Inc., who did not indicate that the results are reported as dry weight.

ND = Not Detected.

NS = Not Specified.

< = Less than minimum detection limit.

Table A2.1

Sampling and Analysis Data: Station B Yard Areas—Elevated Tracks

Area 2.1: Former Coal Yard

AOC #:	12W
PCB Area Description:	Elevated railroad tracks and foundations
Location Reference:	Figure 6
Sample Matrix:	Soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix A

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
SOIL				
2HA-139	0.0-0.25	11-08-2004 (11-13-2004)	ND < 0.50	10.0
2HA-139	0.25-1.25	11-08-2004 (11-13-2004)	ND < 0.50	10.0
2HA-140	0.0-0.25	11-08-2004 (11-13-2004)	ND < 0.50	10.0
2HA-140	0.25-1.25	11-08-2004 (11-13-2004)	ND < 0.50	10.0
SS-II	0.0-0.3	04-03-2002 (04-06-2002)	ND < 0.50	10.0
SS-JJ	0.0-0.3	04-03-2002 (04-06-2002)	ND < 0.50	10.0
SS-KK ⁽¹⁾	0.0-0.3	04-03-2002 (04-06-2002)	0.83	10.0
SS-LL	0.0-0.3	04-03-2002 (04-06-2002)	ND < 0.50	10.0
SS-MM	0.0-0.3	04-03-2002 (04-06-2002)	ND < 0.50	10.0
SS-NN	0.0-0.3	04-03-2002 (04-06-2002)	ND < 0.50	10.0
SS-OO	0.0-0.3	04-02-2002 (04-11-2002)	ND < 0.50	10.0
SS-X	0.0-0.6	05-14-2001 (05-22-2001)	ND < 0.50	10.0
SS-Y	0.0-0.6	05-14-2001 (05-22-2001)	ND < 0.50	10.0
SS-Z	0.0-0.6	05-14-2001 (05-22-2001)	ND < 0.50	10.0

Notes for Table A2.1:

(1) = Sample also tested for leachable PCBs using the Synthetic Precipitation Leachate Procedure (SPLP). SPLP PCBs were not detected.

ND = Not Detected.

< = Less than minimum detection limit.

Table A2.2

Sampling and Analysis Data: Station B Yard Areas—Former Coal Yard

Area 2.2: Former Coal Yard

AOC #:	12N
PCB Area Description:	Paved and unpaved areas south and west of Station B
Location Reference:	Figure 6
Sample Matrix:	Asphalt; concrete; soil; catch basin sediment
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix A

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
ASPHALT ⁽¹⁾				ASPHALT
2HA-241	0.0-0.3	12-16-2004 (12-28-2004)	ND < 0.50	1.0
2HA-242	0.0-0.3	12-16-2004 (12-28-2004)	ND < 0.50	1.0
2TB-207	0.0-0.3	11-18-2004 (12-03-2004)	ND < 0.50	1.0
TB-CCCC	0.0-0.3	04-03-2002 (04-06-2002)	ND < 0.50	1.0
TB-DDDD	0.0-0.3	04-03-2002 (04-06-2002)	ND < 0.50	1.0
TB-EEEE	0.0-0.3	04-04-2002 (04-08-2002)	ND < 0.50	1.0
TB-JJJJ	0.0-0.3	04-04-2002 (04-08-2002)	ND < 0.50	1.0
TB-KKKK	0.0-0.3	04-04-2002 (04-09-2002)	ND < 0.50	1.0
TB-MMMM	0.0-0.3	04-04-2002 (04-09-2002)	ND < 0.50	1.0
TB-NNNN	0.0-0.3	04-04-2002 (04-09-2002)	ND < 0.50	1.0
TB-OOOO	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	1.0
TB-PPPP	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	1.0
TB-RRRR	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	1.0
TB-SSSS	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	1.0
CONCRETE				CONCRETE
2CO-129	½ inch	11-30-2004 (12-07-2004)	ND < 0.50	1.0
2CO-130	½ inch	11-30-2004 (12-07-2004)	ND < 0.50	1.0
2CO-131	½ inch	11-30-2004 (12-07-2004)	ND < 0.50	1.0
2CO-177	½ inch	12-16-2004 (12-28-2004)	ND < 0.50	1.0
2CO-504	½ inch	11-30-2004 (12-07-2004)	ND < 0.50	1.0
SEDIMENT				SEDIMENT
CB-2	0.0-0.3	05-10-2001 (05-15-2001)	3.8	1.0
CB-3	0.0-0.3	05-10-2001 (05-15-2001)	ND < 0.50	1.0
SOIL				SOIL
2HA-241	0.3-0.6	12-16-2004 (12-28-2004)	ND < 0.50	10.0
2HA-242	0.3-0.5	12-16-2004 (12-28-2004)	ND < 0.50	10.0
2TB-206 ⁽³⁾	0.0-0.3	11-18-2004 (12-03-2004)	3.0	10.0
2TB-206	0.3-2.3	11-18-2004 (12-03-2004)	ND < 0.50	10.0
2TB-206 ⁽³⁾	4.3-6.3	11-18-2004 (12-03-2004)	1.44	10.0
2TB-207	0.3-1.3	11-18-2004 (12-03-2004)	ND < 0.50	10.0
2TB-207	1.3-2.3	11-18-2004 (12-03-2004)	ND < 0.50	10.0
2TB-207 ⁽⁴⁾	2.3-4.3	11-18-2004 (12-03-2004)	0.55	10.0
2TB-207	4.3-6.3	11-18-2004 (12-03-2004)	ND < 0.50	10.0
MW-07 ⁽²⁾	7-9	06-04-1998 (06-12-1998)	ND < 1.0	10.0
MW-22 ⁽²⁾	7-9	06-09-1998 (06-19-1998)	ND < 1.0	10.0

Table A2.2 (continued)

Sampling and Analysis Data: Station B Yard Areas—Former Coal Yard

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
SOIL				SOIL
SS-CC	0.0-0.3	04-03-2002 (04-08-2002)	ND < 0.50	10.0
SS-CC	0.3-1.3	04-03-2002 (04-08-2002)	ND < 0.50	10.0
SS-DD	0.0-0.3	04-03-2002 (04-08-2002)	ND < 0.50	10.0
SS-DD	0.3-1.3	04-03-2002 (04-18-2002)	ND < 0.50	10.0
SS-EE	0.0-0.3	04-03-2002 (04-08-2002)	ND < 0.50	10.0
SS-EE	0.3-1.3	04-03-2002 (04-08-2002)	ND < 0.50	10.0
TB-09 ⁽¹⁾	3-7	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-10 ⁽²⁾	11-13	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-C	2-4	05-10-2001 (05-15-2001)	ND < 0.50	10.0
TB-CCCC	2.5-2.8	04-03-2002 (04-06-2002)	ND < 0.50	10.0
TB-CCCC	2.8-3.8	04-03-2002 (04-06-2002)	ND < 0.50	10.0
TB-CCCC	4.5-6.0	04-03-2002 (04-06-2002)	ND < 0.50	10.0
TB-CCCC	10-12	04-03-2002 (04-06-2002)	ND < 0.50	10.0
TB-D	2-4	05-11-2001 (05-18-2001)	ND < 0.50	10.0
TB-DDDD	1.3-1.6	04-03-2002 (04-06-2002)	ND < 0.50	10.0
TB-DDDD	1.6-2.6	04-03-2002 (04-06-2002)	ND < 0.50	10.0
TB-DDDD	3.3-4.3	04-03-2002 (04-06-2002)	ND < 0.50	10.0
TB-DDDD	15-17	04-03-2002 (04-06-2002)	ND < 0.50	10.0
TB-EEEE	1.5-1.8	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-EEEE	1.8-2.8	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-EEEE	3.8-5.8	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-EEEE	10-12	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-F	0-2	05-11-2001 (05-18-2001)	ND < 0.50	10.0
TB-JJJJ	1.5-1.8	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-JJJJ	1.8-2.8	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-JJJJ	3.5-5.0	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-JJJJ	5.0-5.5	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-KKKK	1.0-1.3	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-KKKK	1.3-2.3	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-KKKK	5-6	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-KKKK	5-6 D	04-02-2002 (04-11-2002)	ND < 0.50	10.0
TB-LLLL	0.0-0.3	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-LLLL	0.3-0.6	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-LLLL	0.6-1.6	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-LLLL	3.3-4.3	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-LLLL	4.3-6.3	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-MMMM	0.5-0.8	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-MMMM	0.8-1.8	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-MMMM	4.5-6.5	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-NNNN	1.0-1.3	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-NNNN	1.3-2.3	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-NNNN	4-5	04-04-2002 (04-09-2002)	ND < 0.50	10.0
TB-OOOO	2.0-2.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-OOOO	4-5	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-PPPP	0.3-0.6	04-05-2002 (04-11-2002)	ND < 0.50	10.0

Table A2.2 (continued)

Sampling and Analysis Data: Station B Yard Areas—Former Coal Yard

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
SOIL				SOIL
TB-PPPP	0.9-1.0	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-PPPP	2.3-4.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-QQQQ	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-QQQQ	0.3-2.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-QQQQ	2.3-4.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-RRRR	1.0-1.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-RRRR	3.3-3.9	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-RRRR	3.9-4.0	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-SSSS	2.2-2.5	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-SSSS	2.5-4.5	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-TTTT	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-TTTT	1.0-1.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-TTTT	2.3-4.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0

Notes for Table A2.2:

- (1) = Asphalt samples may include some base material (e.g., cobbles or gravel).
 - (2) = Result reported by GEI Consultants, Inc.
 - (3) = Sample also tested for leachable PCBs using the Synthetic Precipitation Leachate Procedure (SPLP). SPLP PCBs were ND < 0.50 micrograms per liter (µg/L).
- ND = Not detected. < = Less than minimum detection limit.

Table A6.1

Sampling and Analysis Data: Station B Yard Areas—South And West Adjacent

Area 6.1: Former Coal Yard and Area Adjacent to Station B

AOC #:	2, 3, 12N
PCB Area Description:	Paved and unpaved areas south and west of Station B
Location Reference:	Figure 6
Sample Matrix:	Asphalt; concrete; soil; catch basin sediment; hexane wipe of steel surface
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight; micrograms per 100 square centimeters (µg/100 sq. cm)
Laboratory Results in:	Appendix A

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
ASPHALT ⁽¹⁾				ASPHALT
AOC2-CS6	0.0-0.25	03-12-2002 (03-14-2002)	ND < 0.50	1.0
TB-A AAAA	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-BBBBB	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-C CCCC	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-D DDDD	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-F FFFF	0.0-0.3	04-04-2002 (04-08-2002)	ND < 0.50	1.0
TB-F FFFF	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-G GGGG	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-H HHHH	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-I I I I I	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-J J J J J	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-K K K K K	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	1.0
TB-U U U U U	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	1.0
TB-W W W W W	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	1.0
TB-Y Y Y Y Y	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	1.0
6AS-001	½ inch	08-26-2004 (08-30-2004)	ND < 0.50	1.0
6AS-001D	½ inch	08-26-2004 (08-30-2004)	ND < 0.50	1.0
EB-06*	NA	08-26-2004 (08-31-2004)	ND < 12 **	NA
CONCRETE				CONCRETE
6CO-065	½ inch	08-26-2004 (08-30-2004)	ND < 0.50	1.0
SOIL				SOIL
AOC2-CS2	0-2	03-12-2002 (03-14-2002)	ND < 0.50	10.0
AOC2-CS2	2-4	03-12-2002 (03-14-2002)	ND < 0.50	10.0
AOC2-CS2	5-7	03-12-2002 (03-14-2002)	ND < 0.50	10.0
AOC2-CS6	0.25-2.0	03-12-2002 (03-14-2002)	ND < 0.50	10.0
AOC2-CS6	2-4	03-12-2002 (03-14-2002)	ND < 0.50	10.0
AOC2-CS6	5-7	03-12-2002 (03-14-2002)	ND < 0.50	10.0
MW-02 ⁽²⁾	13-17	06-02-1998 (06-10-1998)	ND < 1.0	10.0
MW-03 ⁽²⁾	15-17	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-01 ⁽²⁾	7-8	06-02-1998 (06-10-1998)	ND < 1.0	10.0
TB-05 ⁽²⁾	4-6	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-06 ⁽²⁾	1-7	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-07 ⁽²⁾	5	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-07A ⁽²⁾	7-9	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-08A ⁽²⁾	1-3	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-08B ⁽²⁾	9-11	06-04-1998 (06-12-1998)	ND < 1.0	10.0
TB-08B ⁽²⁾	15-17	06-04-1998 (06-12-1998)	ND < 1.0	10.0

Table A6.1 (continued)

Sampling and Analysis Data: Station B Yard Areas—South And West Adjacent

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
SOIL				SOIL
TB-AAAAA	0.5-2.5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-BBBBB	0.5-2.5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-BBBBB	2.5-4.5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-BBBBB	4.5-5.5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-CCCCC	2-4	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-CCCCC	4-5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-DDDDD	0.5-0.8	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-EEEE	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-EEEE	0.3-2.3	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-EEEE	2.3-4.3	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-FFFF	0.5-0.8	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-FFFF	2.5-3.5	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-FFFF	3.5-4.5	04-04-2002 (04-08-2002)	ND < 0.50	10.0
TB-FFFFF	0.5-0.8	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-GGGGG	0.5-1.2	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-HHHHH	0.5-2.5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-HHHHH	2.5-4.5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-I	2-4	05-14-2001 (05-18-2001)	ND < 0.50	10.0
TB-J	2-4	05-14-2001 (05-18-2001)	ND < 0.50	10.0
TB-JJJJ	0.3-2.3	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-JJJJ	2.3-4.3	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-KKKKK	1-2	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-KKKKK	4-5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-L	2-4	05-14-2001 (05-18-2001)	ND < 0.50	10.0
TB-UUUU	1.2-1.5	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-UUUU	5-7	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-VVVV	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-VVVV	0.5-2.5	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-VVVV	2.5-4.5	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-WWWW	2.2-2.5	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-WWWW	2.5-4.5	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-XXXX	0.0-0.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-XXXX	2.3-4.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-XXXX	4.3-6.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-YYYY	2.0-2.3	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-YYYY	2.5-3.0	04-05-2002 (04-11-2002)	ND < 0.50	10.0
TB-YYYY	3-5	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-YYYY	5-7	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-ZZZZ	0.0-0.3	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-ZZZZ	0.3-2.3	04-05-2002 (04-10-2002)	ND < 0.50	10.0
TB-ZZZZ	2.3-4.3	04-05-2002 (04-10-2002)	ND < 0.50	10.0

Table A6.1 (continued)

Sampling and Analysis Data: Station B Yard Areas—South And West Adjacent

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
CATCH BASIN SEDIMENT				SEDIMENT
CB-1	0.0-0.8	05-10-2001 (05-15-2001)	ND < 0.50	1.0
HEXANE WIPE OF STEEL SURFACE				HEXANE WIPE
6HX-007	NA	08-26-2004 (09-01-2004)	ND < 10	10.0
6HX-007D	NA	08-26-2004 (09-01-2004)	ND < 10	10.0
Field Blank 2	NA	08-26-2004 (09-01-2004)	ND < 5.0	NA

Notes for Table A6.1:

(1) = Asphalt samples may include some base material (e.g., cobbles or gravel).

(2) = Result reported by GEI Consultants, Inc.

NA = Not applicable. ND = Not detected.

< = Less than minimum detection limit.

* = Equipment Blank, matrix water. ** = Detection limit based on sample size supplied for analysis.

Table A6.2

Sampling and Analysis Data: Station B Yard Areas—Mill River East Branch

Area 6.2: Mill River East Branch Area

AOC #:	12E
PCB Area Description:	Mill River East Branch area
Location Reference:	Figure 6
Sample Matrix:	Soil
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results in:	Appendix A

Characterization Samples				Cleanup Criterion
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result	
SOIL				SOIL
MW-04D ⁽¹⁾	36-40	06-10-1998 (06-18-1998)	ND < 1.0	10.0
MW-05 ⁽¹⁾	2-4	05-26-1998 (06-07-1998)	ND < 1.0	10.0

Notes for Table A6.2:

(1) = Result reported by GEI Consultants, Inc.

ND = Not Detected.

< = Less than minimum detection limit.

Table 1

SUMMARY OF PROCEDURES FOR PCB SAMPLING AND ANALYSIS

Sample Matrix	Sample Type	PCB Area(s)	Procedure^(1, 2)
Concrete	Cores (drilling dust)	1.1, 1.2, 2.2, 6.1	EPA's "Draft Standard Operating Procedure for Sampling Concrete in the Field", December 30, 1997.
Ground Water	Low Flow	2.2, 6.1, 6.2	AEI's Standard Operating Procedure (SOP) "Low Stress/Low Flow Ground Water Sampling", SOP-002.
Motor Oil	Grab	1.1	Oil was collected from motor reservoirs using suction bulbs and placed directly into sample containers. Samples were handled in general accordance with standard methods as shown in AEI SOP-002.
Sediment	Polyethylene scoop	2.2, 6.1	AEI's SOP "Sediment Sampling", SOP-003
Soil (test boring)	Split-spoon sampler	2.2, 6.1, 6.2	AEI's SOP "Soil Sampling with a Split-spoon Sampler", SOP-004.
Soil (surface)	Hand auger	1.3, 2.1	Undisturbed surface samples were collected using a hand auger or dedicated scoop. Samples were handled in general accordance with AEI SOP-003.
Steel (non-porous)	Hexane Wipe	1.1, 6.1	EPA's SOP for "Chip, Wipe, and Sweep Sampling", No. 2011, November 16, 1994.
Wood	Chips	1.1	Wood sampling was done by others; the procedure used is not available.

Notes:

(1) = Sampling was performed in general accordance with the procedures shown herein. The procedures cited above are in Appendix A.

(2) = Samples were laboratory-tested for polychlorinated biphenyls (PCBs) using USEPA Method 8082. The laboratory SOP for this procedure is also in Appendix A.

Table A1.1a (cont)

Area 1.1: Station B—Overhead Crane

AOC #:	1
PCB Area Description:	Overhead crane: motor and non-porous steel surface
Location Reference:	Figure A1.1 (Individual sample locations not shown.)
Sample Matrix:	Hexane wipe of steel surface
Analysis:	US EPA Method 8082
Units:	Micrograms per 100 square centimeters (µg/100 sq. cm)
Laboratory Results in:	Appendix B

Characterization Samples			Verification Samples		
Sample Point	Sampling Date (Analysis Date)	Sample Result	Sample Point	Sampling Date (Analysis Date)	Sample Result
HEXANE WIPE OF STEEL SURFACE			HEXANE WIPE OF STEEL SURFACE		
CR-CS30	03-21-02 (03-26-02)	ND < 5.0			
CR-CS31	03-21-02 (03-26-02)	ND < 5.0			
CR-CS32	03-21-02 (04-04-02)	ND < 5.0			
CR-CS33	03-21-02 (03-26-02)	ND < 5.0			
CR-CS34	03-21-02 (04-04-02)	ND < 5.0			
CR-CS35	03-21-02 (04-04-02)	ND < 5.0			
CR-CS36	03-21-02 (04-04-02)	ND < 5.0			
CR-CS37	03-21-02 (03-26-02)	ND < 5.0			
CR-CS38	03-21-02 (04-04-02)	ND < 5.0			
CR-CS39	03-21-02 (03-26-02)	ND < 5.0			
CR-CS40	03-21-02 (04-04-02)	ND < 5.0			
CR-CS41	03-21-02 (03-26-02)	ND < 5.0			
CR-CS42	03-21-02 (04-04-02)	ND < 5.0			
CR-CS43	03-21-02 (03-26-02)	ND < 5.0			
CR-CS44	03-21-02 (03-26-02)	ND < 5.0			
CR-CS45	03-21-02 (04-04-02)	ND < 5.0			
CR-CS46	03-21-02 (04-04-02)	ND < 5.0			
CR-CS47	03-21-02 (03-26-02)	ND < 5.0			
Field Blank 1	03-21-02 (03-26-02)	ND < 5.0			
Field Blank 2	03-21-02 (04-12-02)	ND < 5.0			
Field Blank 3	03-21-02 (04-12-02)	ND < 5.0			

Notes for Table A1.1a:

- (1) = Sample of oil from a motor on the crane. Result reported as milligrams per kilogram (mg/kg), wet weight.
- (2) = Result reported by GEI Consultants, Inc., who did not indicate that the result is reported as wet weight.
- NA = Not applicable.
- ND = Not detected.
- < = Less than minimum detection limit.
- Bold** indicates that detected concentration exceeds associated cleanup criterion.

Table A1.1b

SAMPLING AND ANALYSIS DATA: STATION B INTERIOR – MEZZANINE AND FIRST FLOOR

Area 1.1: Station B—Mezzanine and first floor

AOC #:	1
PCB Area Description:	Mezzanine and first floor, excluding Annex III
Location Reference:	Figure A1.1 (AEI Sample Points only)
Sample Matrix:	Concrete; wood
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix B

Characterization Samples			
Sample Point	Depth (feet)	Sampling Date (Analysis Date)	Sample Result
FIRST FLOOR: CONCRETE FLOOR			
11-16-MISC-121 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0
1CO-01	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
1CO-02	½ inch	06-16-2004 (06-22-2004)	0.57
1CO-03	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
1CO-04	½ inch	06-16-2004 (06-22-2004)	0.98
1CO-05	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
1CO-05D	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
1CO-06	½ inch	06-16-2004 (06-22-2004)	0.52
1CO-07	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
1CO-08	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
1CO-09	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
1CO-10	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
1CO-11	½ inch	06-16-2004 (06-22-2004)	ND < 0.50
FIRST FLOOR: WOOD CHIPS			
11-16-MISC-123 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0
MEZZANINE: WOOD CHIPS			
11-16-MISC-124 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0
11-16-MISC-125 ⁽¹⁾	NS	11-19-1999 (12-01-1999)	ND < 1.0

Notes for Table A1.1b:

(1) = Result reported by GEI Consultants, Inc., who did not indicate that the results are reported as dry weight.

ND = Not Detected.

NS = Not Specified.

< = Less than minimum detection limit.

Table A1.2 (cont)

Area 1.2: Station B—Annex III

AOC #:	1
PCB Area Description:	Annex III: porous concrete floor and containment berm
Location Reference:	Figures A1.1, A1.2 (AEI Sample Points only)
Sample Matrix:	Concrete
Analysis:	US EPA Method 8082
Units:	Milligrams per kilogram (mg/kg), dry weight
Laboratory Results In:	Appendix B

Characterization Samples			1 st and 2 nd Verification Samples ⁽¹⁾		
Sample Point	Sampling Date (Analysis Date)	Sample Result	Sample Point	Sampling Date (Analysis Date)	Sample Result
ANNEX III CONCRETE FLOOR			ANNEX III CONCRETE FLOOR		
E-4	07-18-01 (07-20-01)	ND < 1.0 ⁽²⁾			
1CO-16	06-16-04 (06-22-04)	ND < 0.50			
SE-1	07-18-01 (07-20-01)	0.80			
1CO-12	06-16-04 (06-22-04)	ND < 0.50			
F-2	07-18-01 (07-20-01)	ND < 0.50			
F-3	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾			
F-4	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾			
SF-1	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾			
SF-3	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾			
G-2	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾			
G-3	07-18-01 (07-20-01)	ND < 1.0 ⁽³⁾			
1CO-EB01	06-16-04 (06-21-04)	ND < 12 ⁽⁴⁾	Field blank	05-09-02 (05-13-02)	ND < 0.50 ⁽⁴⁾
CS-5 ⁽⁵⁾	06-11-98 (06-23-98)	15	Equip. Blank	08-26-02 (08-29-02)	ND < 10 ⁽⁴⁾
11-16-MISC-114 ⁽⁵⁾	11-18-99 (11-29-99)	ND < 1.0			
11-16-MISC-115 ⁽⁵⁾	11-18-99 (11-29-99)	ND < 1.0			
11-16-MISC-116 ⁽⁵⁾	11-18-99 (11-29-99)	ND < 1.0			

Notes for Table A1.2:

- (1) = Sample locations selected using a 5-foot grid.
- (2) = Duplicate sample.
- (3) = Minimum detection limit (MDL) affected by matrix interference.
- (4) = Water matrix. Units are micrograms per liter (µg/L).
- (5) = Result reported by GEI Consultants, Inc., who did not indicate that the results are reported as dry weight.
- ND = Not Detected.
- < = Less than minimum detection limit.
- Bold indicates that detected concentration exceeds associated cleanup criterion.
- Depth = ½ inch for all AEI samples. Depth not specified for GEI samples.