

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

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RSR exceedences are bracketed.

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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

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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

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RSR exceedences are bracketed.

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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

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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			1.00	3.00	1.00	3.00
	DEPTH (ft)	CTDEP Jan. 1996	CTDEP Jan. 1996				
Arsenic	(mg/kg)	10		[16.1] <i>done</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		GB Mobility Criteria	TB-233	TB-234	TB-235	TB-236
	SAMPLE ID	Indust/Comm.		TB-233(2-4)	TB-234(0-2)	TB-235(2-4)	TB-236(0-2)
	DATE	Criteria		04/03/2000	04/03/2000	04/03/2000	04/03/2000
	DEPTH (ft)	CTDEP Jan. 1996		CTDEP Jan. 1996	3.00	1.00	3.00
Arsenic	(mg/kg)	10		[32.3]	[12.4]	[22.8]	3.6

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 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.

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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.

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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.

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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] ✓ <i>in</i>	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	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

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 ($\mu\text{g}/100 \text{ sq. cm}$)
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
			Field blank	5/9/02 (5/13/02)	ND<0.50 ⁽⁴⁾	NA
CS-5 ⁽⁵⁾	6/11/98 (6/23/98)	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

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-WWWW	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				
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

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**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

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**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)
Depth Below Grade (ft.)												
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	

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**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	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	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	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)	TB-D (10-12)
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	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
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	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-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
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)
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	
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	
Beryllium	2	2	NA	ND<1.0	NT	NT	NT	ND<1.0	NT	NT	NT	
Cadmium	34	1,000	NA	ND<1.0	NT	NT	NT	ND<1.0	NT	NT	NT	
Chromium	100*	100*	NA	10	NT	NT	NT	10	NT	NT	NT	
Copper	2,500	76,000	NA	75	NT	NT	NT	82	NT	NT	NT	
Lead	500	1,000	NA	880	NT	NT	NT	62	NT	NT	NT	
Mercury	20	610	NA	4.4	NT	NT	NT	0.21	NT	NT	NT	
Nickel	1,400	7,500	NA	7.8	NT	NT	NT	16	NT	NT	NT	
Selenium	340	10,000	NA	5.4	NT	NT	NT	1.3	NT	NT	NT	
Zinc	20,000	610,000	NA	28	NT	NT	NT	80	NT	NT	NT	
SPLP Metals												
Arsenic	NA	NA	0.5	NT	NT	NT	ND<0.05	NT	NT	NT	ND<0.05	
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	7,500	710	260	ND<50	480	860	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)	TB-V (2-4)
Depth Below Grade (ft.)												
Total Metals												
Antimony	27	8,200	NA	NT	38	2.6	NT	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	NT
Beryllium	2	2	NA	NT	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	ND<1.0	ND<1.0	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	7.5	6.8	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	150	25	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	57	11	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	1.8	ND<0.20	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	12	18	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	ND<1.0	1.4	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	70	15	NT	NT	NT	NT	NT	NT
SPLP Metals												
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT	NT	NT	0.065
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	ND<50	300	ND<50	NT	NT	NT	NT	NT	NT

Notes:

- mg/kg = milligrams per kilogram.
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- 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)	TB-X (5-7)
Total Metals												
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	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	ND<2.0
Barium	4,700	140,000	NA	NT	NT	31	NT	NT	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	NT	NT	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	ND<1.0	NT	NT	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	11	NT	NT	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	54	NT	NT	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	31	NT	NT	NT	NT	NT	NT
Mercury	20	610	NA	NT	NT	1.0	NT	NT	NT	NT	NT	NT
Nickel	1,400	7,500	NA	NT	NT	7.9	NT	NT	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	1.1	NT	NT	NT	NT	NT	NT
Zinc	20,000	610,000	NA	NT	NT	51	NT	NT	NT	NT	NT	NT
SPLP Metals												
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	ND<0.05	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	NT	270	NT	NT	2,800	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-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)
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	

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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.)				1/30/02	3/12/02	1/30/02	1/30/02	1/30/02	1/30/02	1/30/02
Sample Collection Date										
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)	Soil Sample Concentrations (ppm)						
	Residential	Industrial Commercial	GB Area	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)
Depth Below Grade (ft.)									
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)	TB-GGG (5-7)
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)	TB-JJ (4-6)
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

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-II (0-2)	TB-II (2-4)	TB-II (5-7)	TB-II (10-12)	TB-JJ (0-2)	TB-JJ (2-4)
Depth Below Grade (ft.)										
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.

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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)	TB-NN (0-2)
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.

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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)
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

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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

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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)
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.

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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
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

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-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)	TB-III (1-3)
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	4/1/2002
Total Metals (Cont'd)										
Silver	340	10,000	NA	NT	ND<2.0	NT	NT	NT	NT	ND<2.0
Thallium	5.4	160	NA	NT	6.6	NT	NT	NT	NT	14
Vanadium	470	14,000	NA	NT	18	NT	NT	NT	NT	17
Zinc	20,000	610,000	NA	NT	40	NT	NT	NT	NT	220
Connecticut Extractable Total Petroleum Hydrocarbons (CTETPH)	500	2,500	2,500	NT	ND<50	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.

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 (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	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	NT	NT	ND<0.006	NT	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	ND<0.05	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	0.13	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	ND<0.04	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	ND<0.013	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	ND<0.002	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	ND<0.05	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	ND<0.01	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	ND<0.005	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	ND<0.05	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	0.12	NT	NT	NT	NT
Total Metals										
Antimony	27	8,200	NA	NT	NT	ND<2.0	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	14	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	30	NT	NT	NT	NT
Beryllium	2	2	NA	NT	NT	ND<1.0	NT	NT	NT	NT
Cadmium	34	1,000	NA	NT	NT	2.2	NT	NT	NT	NT
Chromium	100*	100*	NA	NT	NT	5.6	NT	NT	NT	NT
Copper	2,500	76,000	NA	NT	NT	25	NT	NT	NT	NT
Lead	500	1,000	NA	NT	NT	18	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	16	NT	NT	NT	NT
Selenium	340	10,000	NA	NT	NT	ND<1.0	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-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	TB-000 (3-3.5) 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-000 (0.0-0.3)	TB-000 (0.3-1.3)	TB-000 (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	TB-PPP	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 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-000 (0-0.3)	TB-000 (0.3-2.3)	TB-000 (2.3-4.3)	TB-000 (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)	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	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	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	NT	NT	NT
Arsenic	NA	NA	0.5	NT	NT	NT	NT	NT	NT	NT
Barium	NA	NA	10	NT	NT	NT	NT	NT	NT	NT
Copper	NA	NA	13	NT	NT	NT	NT	NT	NT	NT
Lead	NA	NA	0.15	NT	NT	NT	NT	NT	NT	NT
Mercury	NA	NA	0.02	NT	NT	NT	NT	NT	NT	NT
Nickel	NA	NA	1.0	NT	NT	NT	NT	NT	NT	NT
Selenium	NA	NA	0.50	NT	NT	NT	NT	NT	NT	NT
Thallium	NA	NA	0.05	NT	NT	NT	NT	NT	NT	NT
Vanadium	NA	NA	0.50	NT	NT	NT	NT	NT	NT	NT
Zinc	NA	NA	50	NT	NT	NT	NT	NT	NT	NT
Total Metals										
Antimony	27	8,200	NA	NT	NT	NT	NT	NT	NT	NT
Arsenic	10	10	NA	NT	NT	NT	NT	NT	NT	NT
Barium	4,700	140,000	NA	NT	NT	NT	NT	NT	NT	NT
Beryllium	2	2	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

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)	TB-UUU (20-22)
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) 4/2/2002	TB-UUU (2.6-4.6) 4/2/2002	TB-UUU (4.6-6.6) 4/2/2002	TB-UUU (10-15) 4/2/2002	TB-UUU (15-17) 4/2/2002	TB-UUU (20-22) 4/2/2002
Depth Below Grade (ft.)									
Sample Collection Date									
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