Click Here to Return to Main Document

TABLE 4

SOIL SAMPLE EXCEEDANCES - GA PMC & RESIDENTIAL, INDUSTRIAL/COMMERICAL DEC
SUPPLEMENTAL WORK PLAN

Lightolier Facility
Norwich, CT

AOC #	AREA	Parameter	Soil samples above GA Pollutant Mobility Criteria	Soil samples above GA Pollutant Mobility Criteria by SPLP	Soil Samples Above Residential DEC and below I/C	Soil Samples Above Residential and Industrial/ Commerical DEC
1	Former Oil Dispensing Area	TCE	GP2001-64 and 65			
		PAH				GP2001-65[1]
2	Former Buffing Room	TCE	GP2001-43A, 47			
		Arsenic				GP2001-43, 43A, 44-48, 52
4	CB-1/Former TCE Delivery and Storage Area	TCE	GP2001-CB-1, CB-1(4.5-6.5'), CB-1A (4.5-6.5'), 10, 10A, 15, 27			
5	Former Solvent (TCE/TCA) Still and Degreaser Unit	TCE	GP2001-53A,54, 56A, 57-63		GP2001-56	
		PCE	GP2001-56, 56A			
6	Former Chemical Storage Room	Arsenic				GP2001-102, 103, 107
7	Former Wastewater Sumps/Plating Area	TCE	GP2001-69A			
		Xylenes	GP2001-69, 69A			
		Arsenic				GP2001-71, 72, 74-76, 78, 80, 86-89
		Hex. Chromium		GP2001-69, 69A, 79, 88		
		Total Chromium		GP2001-69, 69A, 79, 88A		
		Copper		GP2001-74		
		Cyanide		GP2001-74		
8	Former Paint Storage Room [2]	NE				
9	Former Paint Department Area	NE				
10	Former Empty Drum Storage Area	Arsenic				GP2001- 2 through 5
12	Former Boiler Blowdown Well	NE				
13	Temp. Haz. Waste Holding Area	TCE	GP2001-55			
		Arsenic				GP2001-55
14	Receiving Area (Curtain Drain)	Arsenic				GP2001-17, 21, 22, 23
15	Building Sewer Line	Arsenic	GP2001-37			GP2001-35,38,39
		TCE				
18	Former 25 inch Hydroform Sump	TCE	GP2001-96			
19	Former location of 400-ton press	TCE	GP2001-97			
20	Former location of 225-ton press	NE				
21	Former 15 inch Hydroform Sump	TCE	GP2001-99			
		ETPH			GP2001-99	
	QA/QC	NE				

Notes:

NE = No exceedances

1. GP2001-65 method detection limit for Benzo (a) anthracene, Benzo (b) fluoranthene, and Benzo (a) pyrene exceed the Direct Exposure Criteria for Residential and/or Industrial/Commercial criteria. Increased detection limit due to sample matrix.
2. Soil Sample GP2001-100 is located in the Former Paint Sorage Room, part of the RCRA Closure Plan.

TABLE 5

Summary of Detected Contaminants within Sub-Surface Soil Samples
Compared to RES DEC, I/C DEC, GA/GAA PMC and GB PMC Criteria

Lightolier Facility - Norwich, CT

							MW-8 / S-2 (2.5 - 4.5 ft) 5/30/98		MW-8 / S-4 (6 - 8 ft) 5/30/98		MW-9 / S-3 (4.8 - 5.7 ft) 6/1/98		MW-9 / S-3 (DUP) (4.8 - 5.7 ft) 6/1/98		GP-11 / S-1 (0.5 - 2.5 ft) 6/27/98		GP-13 / S-2 (2.5 - 4.5 ft) 6/27/98	
Method	Compound	Unit	RES DEC (mg/kg)	I/C DEC (mg/kg)	GA/GAA PMC (mg/kg)	GB PMC (mg/kg)	Result	D-Limit	Result	D-Limit	Result	D-Limit	Result	D-Limit	Result	D-Limit	Result	D-Limit
EPA 8260	Trichloroethene	mg/kg (ppm)	56	520	0.1	1	0.013	0.005	0.0065	0.005	-	-	-	-	0.76	0.4	ND	0.25
EPA 6010	Chromium	mg/kg (ppm)	NE	NE	-	-	-	-	-	-	17.1	0.775	ND	0.793	-	-	88.6	0.99
EPA 6010	Lead	mg/kg (ppm)	500	1000	-	-	-	-	-	-	6.09	3.21	5.66	3.29	-	-	ND	6.82
EPA 6010	Copper	mg/kg (ppm)	2500	76000	-	-	-	-	-	-	25.3	1.33	22.1	1.36	-	-	67.1	3.52
EPA 6010	Cadmium	mg/kg (ppm)	34	1000	-	-	-	-	-	-	0.775	0.332	ND	0.34	-	-	0.44	0.33
EPA 6010	Nickel	mg/kg (ppm)	1400	7500	-	-	-	-	-	-	13.2	1.77	14.7	1.81	-	-	30.4	3.63
EPA 6010	Silver	mg/kg (ppm)	340	10000	-	-	-	-	-	-	2.66	2.22	ND	2.27	-	-	ND	5.5
EPA 7060A	Arsenic	mg/kg (ppm)	10	10	-	-	-	-	-	-	ND	0.55	-	-	-	-	2.97	0.55

Notes:

1. RES means residential.
2. DEC means direct exposure criteria.
3. I/C means industrial/commercial.
4. PMC means pollutant mobility criteria.
5. "-" Means compound was not analyzed.
6. Refer to the appendix for a summary of analytical results.
7. ND means not detectable above the analytical detection limit.

Indicates exceedance of GA/GAA Pollutant Mobility Criteria.

TABLE 6

SUMMARY OF DETECTED SURFACE WATER ANALYTICAL RESULTS (mg/l) FOR SEPTEMBER 3, 1998

(REVISED DECEMBER 14, 1999)

Lightolier Facility - Norwich, CT

			BR-U (SS-1) 09/03/1998		BR-D 09/03/1998		MCL[2]	Water Quality Benchmarks	
Method	Compound	Unit	Result	D-Limit	Result	D-Limit	D-Limit	acute	chronic
EPA 8260	cis-1,2-Dichloroethene	mg/L (ppm)	ND	0.001	0.001	0.001	0.07	1.1	0.59
EPA 8260	Trichloroethene	mg/L (ppm)	ND	0.001	0.008	0.001	0.005	0.44	0.047
EPA 6010	Chromium (total)	mg/L (ppm)	0.06	0.007	ND	0.007	0.1	0.183 to 0.980[4]	0.0238 to 0.120[4]

Notes:

-1- Refer to the Appendix D for Certificates of Analysis.

-2- MCL - Maximum Contaminant Level as set by the EPA for drinking water.

-3- Water Quality Benchmarks - Referenced from The Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision. G.W. Suter II, C.L. TSAO, Date Issued - June 1996, Prepared By Risk Assessment Program Health Sciences Research Division, Oak Ridge, Tennessee, 37831, Prepared for the U.S. Department of Energy, Office of Environmental Management, Under Budget and Reporting Code EW20.

-4- The Water Quality Benchmark given is for total dissolved chromium at a range of 25 to 50 mg/l as $CaCO_3$; the minimum allowable hardness value and the average hardness of Connecticut Surface Waters (per CTDEP Water Quality Standard [1992]), respectively. The higher the assumed hardness the higher the benchmark. If all of the chromium were in hexavalent form, the acute and chronic AWQC is given as 0.016 and 0.011 mg/l, respectively.

TABLE 7

SUMMARY OF LABORATORY ANALYSIS (1985-1998) OF SURFACE WATER SAMPLES FROM ELISHA BROOK SS-1/BR-U (UPSTREAM)

Lightolier Facility
Norwich, Connecticut

Constituent	MDL	CTDEP GA/GAA GPC	USEPA AWQC [6]		CONCENTRATION (mg/l)									
			ACUTE	CHRONIC	Apr-85	May-85	Jul-87	Oct-87	Dec-87	Mar-88	Nov-89	Mar-93	Aug-95	Sep-98
Metals														
Cadmium	0.05	0.005	0.0039	0.0011	-	-	-	ND	ND	ND	-	ND	-	-
Chromium (Total)	0.03	0.05	0.183 to 0.980[5]	0.0238 to 0.120[5]	-	-	-	ND	ND	ND	-	ND	ND	**0.06**
Copper	0.02	1.3	0.018	0.012	-	-	-	ND	ND	ND	-	**0.21**	ND	-
Nickel	0.054	0.1	1.4	0.16	-	-	-	**0.03**	ND	ND	-	ND	ND	-
Cyanide (Total)	0.01	0.2	0.022	0.0052	-	-	-	-	-	-	-	-	ND	ND
Lead	0.003	0.015	0.082	0.0032	-	-	-	ND	ND	ND	-	ND	ND	-
Silver	0.007	0.036	0.0041	0.00036	-	-	-	ND	ND	ND	-	-	ND	-
VOC's														
Methylene Chloride	0.001	0.005	26	2.2	-	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.001	0.006	0.49	0.028	-	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.001	0.001	8.8	0.91	-	-	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.001	0.005	0.83	0.098	-	-	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.001	0.07	NA	NA	-	-	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	0.001	0.1	NA	NA	-	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	0.001	0.007	0.45	0.025	-	-	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.001	0.005	0.44	0.047	-	-	ND	ND	ND	ND	ND	BMDL	ND	ND
1,1,1-Trichloroethane	0.001	0.2	0.2	0.011	-	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.001	0.005	5.2	1.2	-	-	ND	ND	ND	ND	ND	ND	ND	ND
STD. Water Quality Parameters														
pH (Standard Units)	NA	NA	NA	<6.5, >9	6.85	6.05	6.9	6.5	6.3	6.8	-	7.1	-	-
Specific Conductance (umhos/cm)	NA	NA	NA	NA	77	63	168	70	51	60	-	90	-	-
Turbidity (NTUs)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-

NOTES:

1. All reported units are parts per million, ppm, unless otherwise noted.
2. MDL indicates method detection limit for most recent round of analysis for each parameter. ("BMDL" indicates compound is present but at concentration below method detection limit).
3. ND indicates parameter below minimum detection limit (I.e., non-detectable).
4. - indicates parameter not tested; NA indicates not applicable / available.
5. The Water Quality Benchmark given is for total dissolved chromium at a range of 25 to 50 mg/l as $CaCO_3$; the minimum allowable hardness value and the average hardness of Connecticut Surface Waters (per CTDEP Water Quality Standard [1992]), respectively. The higher the assumed hardness the higher the benchmark. If all of the chromium were in hexavalent form, the acute and chronic AWQC is given as 0.016 and 0.011 mg/l, respectively.
6. Water Quality Benchmarks - Referenced from The Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision. G.W. Suter II, C.L. TSAO, Date Issued - June 1996, Prepared By Risk Assessment Program Health Sciences Research Division, Oak Ridge, Tennessee, 37831, Prepared for the U.S. Department of Energy, Office of Environmental Management, Under Budget and Reporting Code EW20. Office of Environmental Management, Under Budget and Reporting Code EW20.

Indicates exceedance of the USEPA Chronic AWQC

Indicates exceedance of the CTDEP GA/ GAA Groundwater Pollutant Criteria

G:\jobs\env\31197-7.js\epa question\31197-7Table7.xls

TABLE 8

SUMMARY OF LABORATORY ANALYSIS (1985-1998) OF SURFACE WATER SAMPLES FROM ELISHA BROOK SS-4/BR-D (DOWNSTREAM)

Lightolier Facility
Norwich, Connecticut

Constituent	MDL	CTDEP GA/ GAA GPC	USEPA AWQC (7) ACUTE	USEPA AWQC (7) CHRONIC	CONCENTRATION (mg/l) Apr-85	May-85	Oct-85	Dec-85	Jul-87	Oct-87	Dec-87	Mar-88	Jul-89	Nov-89	Mar-93	Aug-95	Sep-98
Metals																	
Cadmium	0.05	0.005	0.0039	0.0011	-	-	-	-	-	ND	ND	**0.005**	ND	-	ND	-	-
Chromium (Total)	0.002	0.05	0.183 to 0.980[6]	0.0238 to 0.120[6]	-	-	-	-	-	ND	ND	ND	ND	-	**0.007**	ND	ND
Copper	0.02	1.3	0.018	0.012	-	-	-	-	-	ND	ND	ND	<0.005	-	**0.21**	ND	-
Nickel	0.054	0.1	1.4	0.16	-	-	-	-	-	ND	ND	ND	<0.005	-	ND	ND	-
Cyanide (Total)	0.01	0.2	0.022	0.0052	-	-	-	-	-	-	-	-	-	-	-	**0.01**	ND
Lead	0.003	0.015	0.082	0.0032	-	-	-	-	-	ND	ND	ND	<0.010	-	ND	**0.004**	-
Silver	0.007	0.036	0.0041	0.00036	-	-	-	-	-	ND	ND	ND	-	-	-	ND	-
VOC's																	
Methylene Chloride	0.001	0.005	26	2.2	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.001	0.006	0.49	0.028	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.001	0.001	8.8	0.91	-	-	-	-	ND	ND	ND	ND	ND	-	ND	ND	ND
Tetrachloroethylene	0.001	0.005	0.83	0.098	-	-	-	-	ND	ND	ND	ND	ND	-	ND	ND	ND
cis-1,2-Dichloroethylene	0.001	0.07	NA	NA	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	**0.001**
trans-1,2-Dichloroethylene	0.001	0.1	NA	NA	-	-	-	-	**0.003**	**0.002**	ND	**0.002**	ND	ND	ND	ND	ND
1,1-Dichloroethylene	0.001	0.007	0.45	0.025	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.001	0.005	0.44	0.047	-	-	-	-	**0.023**	**0.009**	**0.008**	**0.01**	**0.005**	**0.004**	BMDL	**0.0058**	**0.008**
1,1,1-Trichloroethane	0.001	0.2	0.2	0.011	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.001	0.005	5.2	1.2	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
STD. Water Quality Parameters																	
pH (Standard Units)	NA	NA	NA	<6.5, >9	**6.34**	**5.02**	**6.88**	-	**7.0**	**6.5**	**6.5**	**6.8**	**7.41**	-	**7.3**	-	-
Specific Conductance (umhos/cm)	NA	NA	NA	NA	**81**	**70**	**70**	**58**	**252**	**70**	**55**	**60**	**110**	-	**110**	-	-
Turbidity (NTUs)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. All reported units are parts per million, ppm, unless otherwise noted.
2. MDL indicates method detection limit for most recent round of analysis for each parameter. ("BMDL" indicates compound is present but at concentration below method detection limit).
3. ND indicates parameter below minimum detection limit (I.e., non-detectable).
4. - indicates parameter not tested; NA indicates not applicable / available.
5. Criteria given is for hexavalent chromium, since there is no CTDEP standard for total chromium and, historical, hexavalent chromium predominated in site groundwater.
6. The Water Quality Benchmark given is for total dissolved chromium at a range of 25 to 50 mg/l as $CaCO_3$; the minimum allowable hardness value and the average hardness of Connecticut Surface Waters (per CTDEP Water Quality Standard [1992]), respectively. The higher the assumed hardness the higher the benchmark. If all of the chromium were in hexavalent form, the acute and chronic AWQC is given as 0.016 and 0.011 mg/l, respectively.
7. Water Quality Benchmarks - Referenced from The Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision. G.W. Suter II, C.L. TSAO, Date Issued - June 1996, Prepared By Risk Assessment Program Health Sciences Research Division, Oak Ridge, Tennessee, 37831, Prepared for the U.S. Department of Energy, Office of Environmental Management, Under Budget and Reporting Code EW20. Office of Environmental Management, Under Budget and Reporting Code EW20.

Indicates exceedance of the USEPA Chronic AWQC

Indicates exceedance of the CTDEP GA/ GAA Groundwater Protection Criteria

i:\jobs\env\31197-7.js\epa question\31197-7Table8.xls

TABLE 9

GROUNDWATER LABORATORY RESULTS FROM WATER SUPPLY WELLS WITHIN A 1/2 MILE RADIUS OF THE LIGHTOLIER FACILITY

Norwich, Connecticut

	Detection Limit (ug/L)	233 Vergason Ave. 09/12/2000 (ug/L)	234 Vergason Ave. 09/12/2000 (ug/L)	303 Plain Hill Road 09/12/2000 (ug/L)	284 Plain Hill Road 09/12/2000 (ug/L)	215 Vergason Ave. 09/12/2000 (ug/L)	221 Vergason Ave. 09/12/2000 (ug/L)	212 Vergason Ave. 09/12/2000 (ug/L)	205 Vergason Ave. 09/12/2000 (ug/L)	Sybron 23 Stott Ave. 09/12/2000 (ug/L)	Kendland 13 Wisconsin Ave. 09/12/2000 (ug/L)	CT Groundwater Criteria for GA & GAA Areas (ug/L)
Chloroform	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6
Trichloroethene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.7**	5
cis-1,2-Dichloroethene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**19**	70
Tetrachloroethene	0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	5
Methyl Tertiary Butyl Ether (MTBE)	1	<1	<1	<1	<1	**28**	**19**	**21**	**4**	<1	<1	100

	Detection Limit (ug/L)	320 Plain Hill Road 09/15/2000 (ug/L)	300 Plain Hill Road 09/15/2000 (ug/L)	280 Plain Hill Road 09/15/2000 (ug/L)	292A Plain Hill Road 09/15/2000 (ug/L)	292B Plain Hill Road 09/15/2000 (ug/L)	292C Plain Hill Road 09/15/2000 (ug/L)	285 Plain Hill Road 09/15/2000 (ug/L)	250 Plain Hill Road 10/19/2000 (ug/L)	CT Groundwater Criteria for GA & GAA Areas (ug/L)
Chloroform	0.5	<0.5	<0.5	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	6
Trichloroethene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
cis-1,2-Dichloroethene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	70
Tetrachloroethene	0.5	<0.5	**0.7**	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	5
Methyl Tertiary Butyl Ether (MTBE)	1	<1	<1	<1	<1	<1	<1	<1	<1	100

Notes: - Shaded area represents an exceedence of the CT Groundwater Criteria for GA & GAA Areas

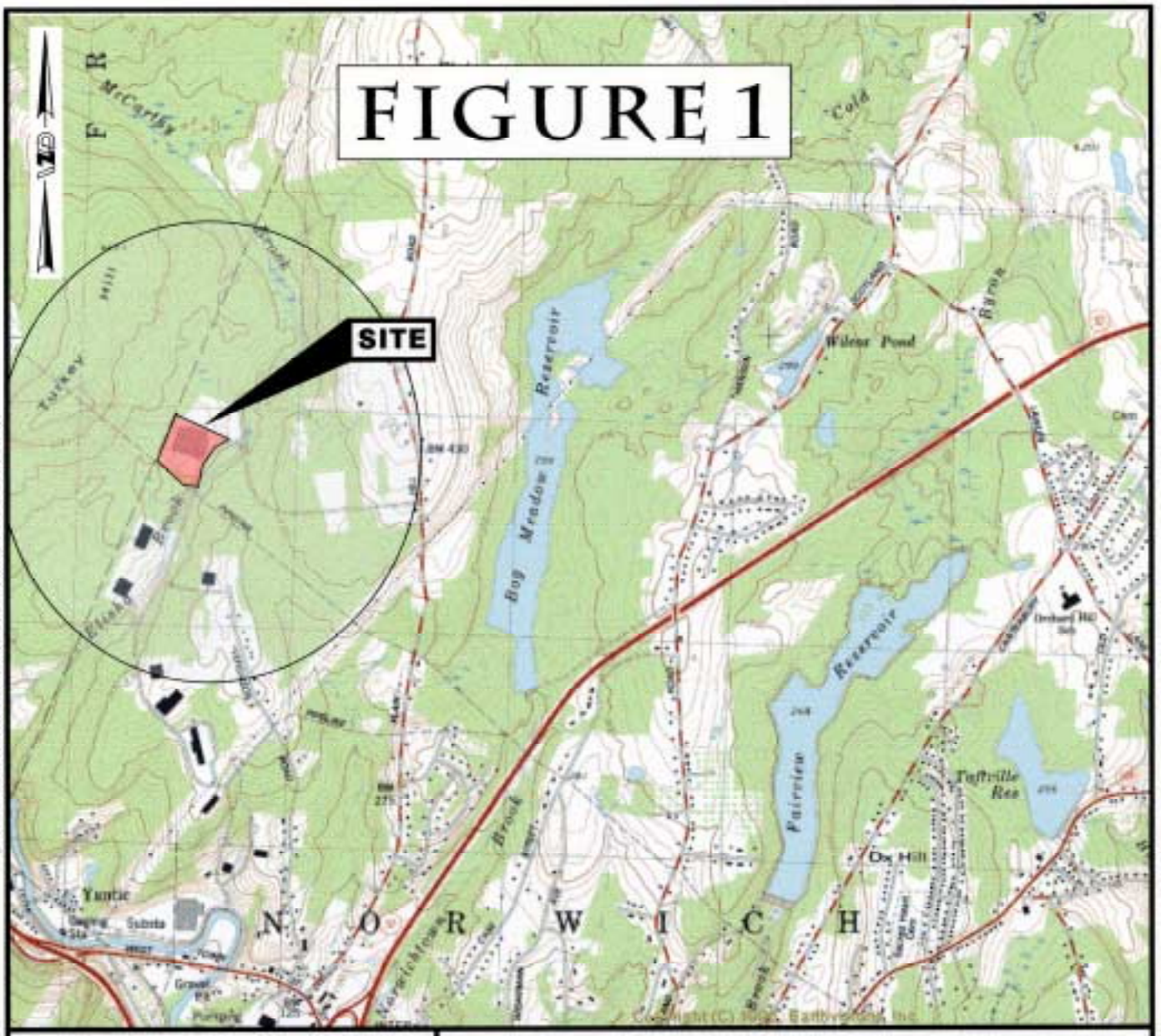
1. Access was denied by Roger P. and Shirley M. Trembley of 254 Plain Hill Rd. and Edward P. and Emmal Trembley of 4 Stott Ave.
2. No response was given by East Side Holdings Company LLC of 211 Vergason Ave.

Click Here to Return to Main Document

FIGURES

(Note that Figure 2 is provided in the SVE Monitoring Report-Attachment A)

FIGURE 1



FROM USGS NORWICH, CT QUADRANGLE MAP

(DIGITAL TOPOGRAPHIC MAPS PROVIDED BY EARTHWISONE, INC.)

* No known public water supply wells within the ½ mile radius. (Industrial non-potable supply wells may be present within ½ mile of the property).

* Based upon 1993 survey, private wells are present approximately 2,000 feet southeast from the property on Ninguace Road.

APPROXIMATE SCALE IN FEET

0' 1200' 2400' 4800'

GZA

40 WISCONSIN AVENUE

NORWICH, CONNECTICUT

LOCUS PLAN

OCTOBER 1996

FIGURE NO. 1

(COREL FILE: G:\JOBS\ENV\31197-4.EAS\LOCUS.CDR)

© 1998 GZA GEOENVIRONMENTAL, INC.

FILE NO. 31197.4

Click Here to Return to Main Document

ATTACHMENT A

SUB-SLAB SOIL VAPOR EXTRACTION (SVE) MONITORING
REPORT APRIL 2001
(provided as bound report under separate cover to this Report)

US EPA New England
RCRA Document Management System (RDMS)
Image Target Sheet

RDMS Document ID# 767

Facility Name: Lightolier Norwich

Phase Classification: R-13

Document Title: Environmental Indicator (EI) Determination, Current Human Exposures Under Control (CA 725 YE) - Lightolier Norwich

Date of Document: 06-22-2001

Document Type: EI Determination

Purpose of Target Sheet:

[x] Oversized **[ ] Privileged**

[ ] Page(s) Missing **[ ] Other (Please Provide Purpose Below)**

Comments:
Oversized Map of Facility Layout and Exploration Location Plan

*** Please Contact the EPA New England RCRA Records Center to View This Document ***

Click Here to Return to Main Document

ATTACHMENT B

SUMMARY OF SOIL TEST RESULTS FOR THE SUPPLEMENTAL WORK PLAN FOR SITE CHARACTERIZATION AS OF MARCH 2001

TABLE 1

AOC #1: FORMER OIL DISPENSING AREA
SUPPLEMENTAL WORK PLAN (SWP)

Lightolier Facility
Norwich, CT

COCs	GP2001-64 (0-2') (mg/kg)	GP2001-65 (0-2') (mg/kg)	Direct Exposure Criteria: Residential Criteria in mg/kg (ppm)	Direct Exposure Criteria: Industrial/Commercial Criteria in mg/kg (ppm)	Pollutant Mobility Criteria: GA Mobility Criteria in mg/kg (ppm)
VOLATILES					
Chloroform	<0.2	<0.2	100	940	0.12
1,1-Dichloroethane	<0.2	<0.2	500	1,000	1.4
1,2-Dichloroethane	<0.2	<0.2	6.7	63	0.02
1,1-Dichloroethylene	<0.2	<0.2	1	10	0.14
cis-1,2-Dichloroethylene	<0.2	<0.2	500	1,000	1.4
trans-1,2-Dichloroethylene	<0.2	<0.2	500	1,000	2
Ethylbenzene	<0.2	<0.2	500	1,000	10.1
Methylene Chloride	<0.5	<0.5	82	760	0.1
Tetrachloroethylene	<0.2	<0.2	12	110	0.1
Toluene	<0.2	<0.2	500	1,000	20
1,1,1-Trichloroethane	<0.2	<0.2	500	1,000	4
1,1,2-Trichloroethane	<0.2	<0.2	11	100	0.1
Trichloroethylene	0.5	0.5	56	520	0.1
Xylenes	<0.2	<0.2	500	1,000	19.5
Acetone	<1.0	<1.0	500	1,000	14
Methyl ethyl ketone	<1.0	<1.0	500	1,000	8
SEMI-VOLATILES					
Acenaphthylene	<0.7	<7.0	1,000	2,500	8.4
Anthracene	<0.7	<7.0	1,000	2,500	40
Benzo(a)anthracene	<0.7	<7.0	1	7.8	1
Benzo(b)fluoranthene	<0.7	<7.0	1	7.8	1
Benzo(k)fluoranthene	<0.7	<7.0	8.4	78	1
Benzo(a)pyrene	<0.7	<7.0	1	1	1
Fluoranthene	<0.7	<7.0	1,000	2,500	5.6
Fluorene	<0.7	<7.0	1,000	2,500	5.6
Naphthalene	<0.7	<7.0	1,000	2,500	5.6
Phenanthrene	<0.7	<7.0	1,000	2,500	4
Pyrene	<0.7	<7.0	1,000	2,500	4
Other COCs					
ETPH (C9-C36)	7.4	75	500	2,500	500

Notes:

(a) Soil and Concrete Media Closure Criteria were obtained from the State of Connecticut Regulation of the Department of Environmental Protection concerning Remediation Standard.

(b) Constituents of Concern as identified in this work plan as identified in Table 27 and 28 of the "Supplemental Work Plan (SWP) for Site Characterization, Lightolier Facility, Norwich, CT (Volume 1).

- Indicates a compound exceeded the CTDEP Residential/ Industrial/ Commerical Direct Exposure Criterias.

- Indicates a compound exceeded both the CTDEP Residential Direct Exposure and GA Pollutant Mobility Criterias.

- Indicates a compound exceeded the CTDEP GA Pollutant Mobility Criteria

<1.74 - Detection Limits are greater than the GA Pollutant Mobility Criteria

TABLE 2

AOC #2: FORMER BUFFING ROOM
SUPPLEMENTAL WORK PLAN (SWP)

Lightolier Facility
Norwich, CT

COCs	GP2001-43 (0-2') (mg/kg)	GP2001-43A (0-2') (mg/kg)	GP2001-44 (0-2') (mg/kg)	GP2001-45 (0-2') (mg/kg)	GP2001-46 (0-2') (mg/kg)	GP2001-47 (0-2') (mg/kg)	GP2001-48 (0-2') (mg/kg)	GP2001-49 (0-2') (mg/kg)	GP2001-50 (0-2') (mg/kg)	GP2001-51 (0-2') (mg/kg)	GP2001-52 (0-2') (mg/kg)	Direct Exposure Criteria: Residential Criteria in mg/kg (ppm)	Direct Exposure Criteria: Industrial/Commercial Criteria in mg/kg (ppm)	Pollutant Mobility Criteria: GA Mobility Criteria in mg/kg (ppm)
VOLATILES														
Chloroform	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	100	940	0.12
1,1-Dichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	1.4
1,2-Dichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	6.7	63	0.02
1,1-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	1	10	0.14
cis-1,2-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	1.4
trans-1,2-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	2
Ethylbenzene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	10.1
Methylene Chloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	82	760	0.1
Tetrachloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	12	110	0.1
Toluene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	20
1,1,1-Trichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	4
1,1,2-Trichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	11	100	0.1
Trichloroethylene	**0.085**	**0.119**	**0.047**	**0.040**	**0.038**	**0.110**	**0.041**	**0.046**	**0.019**	**0.014**	<0.004	56	520	0.1
Xylenes	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	19.5
Acetone	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.062**	**0.02**	<0.02	<0.02	<0.02	500	1,000	14
Methyl ethyl ketone	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	500	1,000	8
METALS														
Arsenic	**15.7**	**15.5**	**18.4**	**15.8**	**16.7**	**12.1**	**11.8**	**4.6**	**9.9**	**9.7**	**10.9**	10	10	
Cadmium	**1.32**	**1.51**	**1.47**	**1.45**	**1.65**	**1.14**	**0.87**	**0.48**	**0.72**	**0.80**	**0.81**	34	1,000	
Chromium, trivalent	**16.3**	**14.1**	**16.9**	**16.9**	**16.3**	**18.2**	**15.0**	**7.64**	**10.9**	**9.14**	**15.4**	3,900	51,000	
Chromium, hexavalent	<3.61	**2.27**	<3.54	<3.58	<3.52	<1.74	<1.73	<0.85	<0.87	<0.85	<0.85	100	100	
Chromium, total	**16.3**	**16.4**	**16.9**	**16.9**	**16.3**	**18.2**	**15.0**	**7.64**	**10.9**	**9.14**	**15.4**	4,000	51,100	
Copper	**13.8**	**13.0**	**18.0**	**13.5**	**13.0**	**15.2**	**14.4**	**9.31**	**14.9**	**13.4**	**15.6**	2,500	76,000	
Lead	**10.1**	**10.9**	**8.37**	**11.3**	**9.5**	**6.99**	**8.88**	**3.26**	**4.97**	**5.35**	**7.51**	500	1,000	
Nickel	**10.3**	**11.1**	**12.4**	**11.1**	**11.6**	**12.5**	**9.86**	**6.52**	**7.55**	**6.22**	**10.9**	1,400	7,500	
Silver	<0.41	<0.42	<0.41	<0.43	<0.41	<0.42	<0.39	<0.37	<0.40	<0.39	<0.40	340	10,000	
SPLP METALS														by SPLP in mg/L (ppm)
Arsenic	NT	NT	NT	NT	NT	NT	NT	<0.005	<0.005	<0.005	NT			0.05
Cadmium	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	**0.0013**	<0.0005	<0.0005	<0.0005			0.005
Chromium, trivalent	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			10.5
Chromium, hexavalent	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02			0.021
Chromium, total	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03			0.05
Copper	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			1.3
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			0.015
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			0.1
Selenium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			0.05

Notes:

(a) Soil and Concrete Media Closure Criteria were obtained from the State of Connecticut Regulation of the Department of Environmental Protection concerning Remediation Standard.

(b) Constituents of Concern as identified in this work plan as identified in Table 27 and 28 of the "Supplemental Work Plan (SWP) for Site Characterization, Lightolier Facility, Norwich, CT (Volume 1).

(c) Total Chromium for the Direct Exposure Criteria (Residential/Industrial/Commercial) utilized a combined trivalent and hexavalent chromium criteria.

(d) NT = Not Tested

- Indicates a compound exceeded the CTDEP Residential/ Industrial/ Commerical Direct Exposure Criterias.

- Indicates a compound exceeded both the CTDEP Residential Direct Exposure and GA Pollutant Mobility Criterias.

- Indicates a compound exceeded the CTDEP GA Pollutant Mobility Criteria

- Indicates a compound exceeded the CTDEP GA Pollutant Mobility Criteria by SPLP

<1.74 - Detection Limits are greater than the GA Pollutant Mobility Criteria

TABLE 3

AOC#4: CB-1/ FORMER TCE DELIVERY & STORAGE AREA
SUPPLEMENTAL WORK PLAN (SWP)

Lightolier Facility
Norwich, CT

COCs	GP2001-CB-1 (mg/kg)	GP2001-CB-1 (4.5-6.5') (mg/kg)	GP2001-CB-1A (4.5-6.5') (mg/kg)	GP2001-9 (0-2') (mg/kg)	GP2001-9A (0-2') (mg/kg)	GP2001-10 (0-2') (mg/kg)	GP2001-10A (0-2') (mg/kg)	GP2001-15 (0-1') (mg/kg)	Direct Exposure Criteria: Residential Criteria in mg/kg (ppm)	Direct Exposure Criteria: Industrial/Commercial Criteria in mg/kg (ppm)	Pollutant Mobility Criteria: GA Mobility Criteria in mg/kg (ppm)
VOLATILES											
Chloroform	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	100	940	0.12
1,1-Dichloroethane	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	1.4
1,2-Dichloroethane	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	6.7	63	0.02
1,1-Dichloroethylene	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	1	10	0.14
cis-1,2-Dichloroethylene	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	1.4
trans-1,2-Dichloroethylene	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	2
Ethylbenzene	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	10.1
Methylene Chloride	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	82	760	0.1
Tetrachloroethylene	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	12	110	0.1
Toluene	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	**0.006**	500	1,000	20
1,1,1-Trichloroethane	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	4
1,1,2-Trichloroethane	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	<0.004	11	100	0.1
Trichloroethylene	1.1	1.8	0.4	**0.034**	**0.035**	0.37	0.230	0.199	56	520	0.1
Xylenes	<0.2	<0.2	<0.2	<0.004	<0.004	<0.004	<0.004	**0.008**	500	1,000	19.5
Acetone	<1.0	<1.0	<1.0	<0.02	<0.02	<0.02	<0.02	<0.02	500	1,000	14
Methyl ethyl ketone	<1.0	<1.0	<1.0	<0.02	<0.02	<0.02	<0.02	<0.02	500	1,000	8

COCs	GP2001-16 (0-2') (mg/kg)	GP2001-16A (0-2') (mg/kg)	GP2001-25 (10-12') (mg/kg)	GP2001-27 (0-2') (mg/kg)	GP2001-30 (0-2') (mg/kg)	GP2001-31 (0-2') (mg/kg)	GP2001-31A (0-2') (mg/kg)	GP2001-32 (0-2') (mg/kg)	Direct Exposure Criteria: Residential Criteria in mg/kg (ppm)	Direct Exposure Criteria: Industrial/Commercial Criteria in mg/kg (ppm)	Pollutant Mobility Criteria: GA Mobility Criteria in mg/kg (ppm)
VOLATILES											
Chloroform	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	100	940	0.12
1,1-Dichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	1.4
1,2-Dichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	6.7	63	0.02
1,1-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	1	10	0.14
cis-1,2-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	1.4
trans-1,2-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	2
Ethylbenzene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	10.1
Methylene Chloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	82	760	0.1
Tetrachloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	12	110	0.1
Toluene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	20
1,1,1-Trichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	4
1,1,2-Trichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	11	100	0.1
Trichloroethylene	**0.075**	**0.041**	**0.018**	0.121	**0.027**	**0.053**	**0.056**	**0.046**	56	520	0.1
Xylenes	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	19.5
Acetone	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	500	1,000	14
Methyl ethyl ketone	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	500	1,000	8

Notes:

(a) Soil and Concrete Media Closure Criteria were obtained from the State of Connecticut Regulation of the Department of Environmental Protection concerning Remediation Standard.

(b) Constituents of Concern as identified in this work plan as identified in Table 27 and 28 of the "Supplemental Work Plan (SWP) for Site Characterization, Lightolier Facility, Norwich, CT (Volume 1).

- Indicates a compound exceeded the CTDEP Residential/ Industrial/ Commerical Direct Exposure Criterias.

- Indicates a compound exceeded both the CTDEP Residential Direct Exposure and GA Pollutant Mobility Criterias.

- Indicates a compound exceeded the CTDEP GA Pollutant Mobility Criteria

<4.74 - Detection Limits are greater than the GA Pollutant Mobility Criteria

TABLE 4

AOC #5: FORMER SOLVENT (TCE/TCA) STILL AND DEGREASER UNIT
SUPPLEMENTAL WORK PLAN

Lightolier Facility
Norwich, CT

COCs	GP2001-53 (0-2') (mg/kg)	GP2001-53A (0-2') (mg/kg)	GP2001-54 (0-2') (mg/kg)	GP2001-56 (0-2') (mg/kg)	GP2001-56A (0-2') (mg/kg)	GP2001-57 (4-6') (mg/kg)	GP2001-58 (0-2') (mg/kg)	GP2001-59 (0-2') (mg/kg)	GP2001-60 (0-2') (mg/kg)	GP2001-61 (0-2') (mg/kg)	GP2001-62 (0-2') (mg/kg)	GP2001-63 (0-2') (mg/kg)	Direct Exposure Criteria: Residential Criteria in mg/kg (ppm)	Direct Exposure Criteria: Industrial/Commercial Criteria in mg/kg (ppm)	Pollutant Mobility Criteria: GA Mobility Criteria in mg/kg (ppm)
Volatiles															
Chloroform	<0.004	<0.004	<0.004	<0.2	<0.2	<0.004	<0.004	<0.2	<0.2	<0.2	<0.2	<0.2	100	940	0.12
1,1-Dichloroethane	<0.004	<0.004	<0.004	<0.2	<0.2	<0.004	<0.004	<0.2	<0.2	<0.2	<0.2	<0.2	500	1,000	1.4
1,2-Dichloroethane	<0.004	<0.004	<0.004	<0.2	<0.2	<0.004	<0.004	<0.2	<0.2	<0.2	<0.2	<0.2	6.7	63	0.02
1,1-Dichloroethylene	<0.004	<0.004	<0.004	<0.2	<0.2	<0.004	<0.004	<0.2	<0.2	<0.2	<0.2	<0.2	1	10	0.14
cis-1,2-Dichloroethylene	<0.004	<0.004	<0.004	<0.2	<0.2	<0.004	<0.004	<0.2	<0.2	<0.2	<0.2	<0.2	500	1,000	1.4
trans-1,2-Dichloroethylene	<0.004	<0.004	<0.004	<0.2	<0.2	<0.004	<0.004	<0.2	<0.2	<0.2	<0.2	<0.2	500	1,000	2
Ethylbenzene	<0.004	<0.004	**0.007**	<0.2	<0.2	<0.004	**0.006**	<0.2	<0.2	<0.2	<0.2	<0.2	500	1,000	10.1
Methylene Chloride	<0.01	<0.01	<0.01	<0.5	<0.5	<0.01	<0.01	<0.5	<0.5	<0.5	<0.5	<0.5	82	760	0.1
Tetrachloroethylene	<0.004	<0.004	**0.032**	[illegible]	[illegible]	**0.007**	**0.008**	<0.2	<0.2	<0.2	<0.2	<0.2	12	110	0.1
Toluene	<0.004	<0.004	**0.005**	<0.2	<0.2	<0.004	<0.004	<0.2	<0.2	<0.2	<0.2	<0.2	500	1,000	20
1,1,1-Trichloroethane	<0.004	<0.004	**0.110**	**2.8**	**1.3**	**0.02**	**0.011**	<0.2	<0.2	<0.2	<0.2	<0.2	500	1,000	4
1,1,2-Trichloroethane	<0.004	<0.004	**0.010**	<0.2	<0.2	<0.004	<0.004	<0.2	<0.2	<0.2	<0.2	<0.2	11	100	0.1
Trichloroethylene	**0.051**	[illegible]	[illegible]	**71.0**	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	56	520	0.1
Xylenes	<0.004	<0.004	**0.020**	**0.5**	**0.3**	**0.006**	**0.030**	<0.2	<0.2	<0.2	<0.2	<0.2	500	1,000	19.5
Acetone	<0.02	<0.02	<0.02	<1.0	<1.0	<0.02	<0.02	<1.0	<1.0	<1.0	<1.0	<1.0	500	1,000	14
Methyl ethyl ketone	<0.02	<0.02	<0.02	<1.0	<1.0	<0.02	<0.02	<1.0	<1.0	<1.0	<1.0	<1.0	500	1,000	8

Notes:

(a) Soil and Concrete Media Closure Criteria were obtained from the State of Connecticut Regulation of the Department of Environmental Protection concerning Remediation Standard.

(b) Constituents of Concern as identified in this work plan as identified in Table 27 and 28 of the "Supplemental Work Plan (SWP) for Site Characterization, Lightolier Facility, Norwich, CT (Volume 1).

- Indicates a compound exceeded the CTDEP Residential/ Industrial/ Commerical Direct Exposure Criterias.

- Indicates a compound exceeded both the CTDEP Residential Direct Exposure and GA Pollutant Mobility Criterias.

- Indicates a compound exceeded the CTDEP GA Pollutant Mobility Criteria

<1.74 - Detection Limits are greater than the GA Pollutant Mobility Criteria

Click Here to Go to Tables 6 -17

TABLE 5

AOC #6: FORMER CHEMICAL STORAGE ROOM
SUPPLEMENTAL WORK PLAN (SWP)

Lightolier Facility
Norwich, CT

COCs	GP2001-101 (0-2') (mg/kg)	GP2001-102 (0-2') (mg/kg)	GP2001-103 (0-2') (mg/kg)	GP2001-104 (0-2') (mg/kg)	GP2001-105 (0-2') (mg/kg)	GP2001-105A (0-2') (mg/kg)	GP2001-106 (0-2') (mg/kg)	GP2001-107 (0-2') (mg/kg)	Direct Exposure Criteria: Residential Criteria in mg/kg (ppm)	Direct Exposure Criteria: Industrial/Commercial Criteria in mg/kg (ppm)	Pollutant Mobility Criteria: GA Mobility Criteria in mg/kg (ppm)
VOLATILES											
Chloroform	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	100	940	0.12
1,1-Dichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	1.4
1,2-Dichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	7	63	0.02
1,1-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	1	10	0.14
cis-1,2-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	1.4
trans-1,2-Dichloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	2
Ethylbenzene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	10.1
Methylene Chloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	82	760	0.1
Tetrachloroethylene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	12	110	0.1
Toluene	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	20
1,1,1-Trichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	500	1,000	4
1,1,2-Trichloroethane	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	11	100	0.1
Trichloroethylene	**0.010**	**0.006**	**0.009**	**0.016**	**0.006**	**0.006**	**0.006**	**0.009**	56	520	0.1
Xylenes	**0.012**	<0.004	<0.004	**0.005**	<0.004	<0.004	<0.004	<0.004	500	1,000	19.5
Acetone	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	500	1,000	14
Methyl ethyl ketone	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	500	1,000	8
SEMI-VOLATILES											
Acenaphthylene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1,000	2,500	8.4
Anthracene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1,000	2,500	40
Benzo(a)anthracene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1	8	1
Benzo(b)fluoranthene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1	8	1
Benzo(k)fluoranthene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	8	78	1
Benzo(a)pyrene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1	1	1
Fluoranthene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1,000	2,500	5.6
Fluorene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1,000	2,500	5.6
Naphthalene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1,000	2,500	5.6
Phenanthrene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1,000	2,500	4
Pyrene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	1,000	2,500	4
METALS											
Arsenic	**5.8**	**13.4**	**13.4**	**6.7**	**7.9**	**5.8**	**7.8**	**13.3**	10	10	
Cadmium	**0.74**	**0.77**	**0.79**	**0.68**	**0.67**	**0.63**	**0.56**	**0.62**	34	1,000	
Chromium, trivalent	**15.0**	**21.8**	**16.0**	**14.1**	**9.86**	**11.0**	**11.3**	**10.8**	3,900	51,000	
Chromium, hexavalent	<0.85	<0.85	<0.83	<0.85	<0.85	<0.86	<0.85	<0.86	100	100	
Chromium, total	**15.0**	**21.8**	**16.0**	**14.1**	**9.86**	**11.0**	**11.3**	**10.8**	4,000	51,100	
Copper	**13.9**	**12.6**	**12.2**	**10.1**	**13.8**	**13.3**	**9.55**	**10.8**	2,500	76,000	
Lead	**5.47**	**6.33**	**6.48**	**5.54**	**4.93**	**5.49**	**5.07**	**5.38**	500	1,000	
Nickel	**10.2**	**15.9**	**11.6**	**9.56**	**7.38**	**7.65**	**7.43**	**13.3**	1,400	7,500	
Silver	<0.39	<0.38	<0.38	<0.38	<0.39	<0.39	<0.39	<0.38	340	10,000	
Total Cyanide	<3.53	<3.40	<3.44	<3.43	<3.35	<3.54	<3.55	<3.52	1,400	41,000	
SPLP METALS											**Re SPLP in mg/L (ppm)**
Arsenic	**0.006**	NT	NT	<0.005	<0.005	<0.005	<0.005	NT			0.05
Cadmium	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			0.005
Chromium, trivalent	NT	NT	NT	NT	NT	NT	NT	NT			10.5
Chromium, hexavalent	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			0.021
Chromium, total	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03			0.05
Copper	NT	NT	NT	NT	NT	NT	NT	NT			1.3
Lead	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			0.015
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			0.1
Selenium	NT	NT	NT	NT	NT	NT	NT	NT			0.05

Notes:

(a) Soil and Concrete Media Closure Criteria were obtained from the State of Connecticut Regulation of the Department of Environmental Protection concerning Remediation Standard.

(b) Constituents of Concern as identified in this work plan as identified in Table 27 and 28 of the "Supplemental Work Plan (SWP) for Site Characterization, Lightolier Facility, Norwich, CT (Volume 1).

(c) Total Chromium for the Direct Exposure Criteria (Residential/Industrial/Commercial) utilized a combined trivalent and hexavalent chromium criteria.

(d) NT = Not Tested

- Indicates a compound exceeded the CTDEP Residential/ Industrial/ Commerical Direct Exposure Criterias.

- Indicates a compound exceeded both the CTDEP Residential Direct Exposure and GA Pollutant Mobility Criterias.

- Indicates a compound exceeded the CTDEP GA Pollutant Mobility Criteria

- Indicates a compound exceeded the CTDEP GA Pollutant Mobility Criteria by SPLP

<0.74 - Detection Limits are greater than the GA Pollutant Mobility Criteria