

EXHIBIT 11

Underground Storage Tank Closure Report - Tanks 2 & 3

Release Tracking Number 3-20799

Medfield State Hospital

45 Hospital Road

Medfield MA

Pennoni Associates

September 28, 2001



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

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10 Ferry Street, Unit 6
Concord, NH 03301-2319
Tel: 603•226•1950
Fax: 603•226•3235

DOMH0101.08

September 28, 2001

Ms. Carol Jalbert, Capital Budget Manager
Department of Mental Health
25 Staniford Street
Boston, MA 02114

RE: Underground Storage Tank Closure Report – Tanks #2 and #3
Release Tracking Number 3-20799
Medfield State Hospital
45 Hospital Road
Medfield, Massachusetts 02052

Dear Ms. Jalbert:

This letter report, pertaining to the closure of two 30,000-gallon No. 6 fuel oil underground storage tank (UST) systems under the supervision of Pennoni Associates Inc. (Pennoni), is submitted for your records. Two 30,000-gallon USTs were closed in place at the Medfield State Hospital in Medfield, Massachusetts (the site), pursuant to 527 CMR 9.0 *Tanks and Containers*. The two USTs discussed herein were a portion of a three-tank system located at the power plant facility. Figure 1 depicts the site location. This report summarizes actions taken and environmental conditions encountered during removal of the tanks.

UST CLOSURE ACTIVITIES

On May 29, 2001, the UST closure activities commenced at the site by Cyn Environmental (Cyn) of Stoughton, Massachusetts. Environmental oversight and soil testing during the closure activities were conducted by Pennoni in accordance with the Massachusetts MCP.

The Power Plant facility is a two-story brick building, which houses oil-fired boilers that



formerly produce steam pressure. The steam was used to heat the facilities on the property. The UST system consisted of three 30,000-gallon capacity tanks. The tanks are double-walled steel and were installed in 1990. The existing USTs replaced three 30,000 gallon USTs which were in service since the early 1960s. The USTs were always used for the storage of No. 6 fuel oil. It is believed that there is a concrete ballast pad below the USTs, at a depth of approximately 14 feet.

In the immediate area of the USTs, the surface is covered with an 8-inch thick concrete pad. A temporary boiler is located on the concrete pad for producing steam. The adjacent driveway and parking lot is paved with asphalt. Surface topography slopes from the southeast to northwest. Two catch basins, to the north and east of the UST pad area, collect surface water and discharge to an outfall structure. The outfall structure is located approximately 55 feet north of the UST pad area. Surface waters discharge onto the ground surface at the outfall structure. Beyond the asphalt area, to the north and west, is undeveloped woodlands. The Charles River is located approximately 500 feet north of the UST pad area. Figure 2 illustrates the site features and the soil sample locations. Tanks #2 and #3 were scheduled for closure while Tank #1 was still in service. A photographic log of the UST closure activities is presented in Appendix A.

Prior to commencing closure activities, approximately 25,000 gallons of No.6 fuel oil was transferred from Tank #2 to Tank #1. The two USTs were then purged of sludges and oily waters, and rendered free of explosive vapors prior to cleaning. The interiors of both tanks were triple-rinsed prior to in-place closure. As part of the closure activities, a total of three locations were cut into the bottom of the tanks (one in Tank #2 and two in Tank #3) in order to collect confirmatory soil samples of the material below the tanks. During the cutting operations, it was discovered that the interstitial place of the USTs contained fuel oil. Once the soil samples were collected, the tank openings were sealed with hydraulic cement.

During the closure activities, Cyn removed and transported 8,425 gallons of residual sludge and 4,500 gallons of oily water from the USTs to their TSD facility located in Stoughton, Massachusetts for disposal. A copy of the Uniform Hazardous Waste Manifests for sludge and liquid disposal is provided as Appendix B.

The supply lines and all associated underground piping were entirely removed, cleaned and disposed of off site at Cyn's licensed facility. The supply lines culverts to the USTs were sealed and the USTs were filled with concrete slurry. The entire volume of the USTs were filled with slurry to bottom of the manways. The manways and underground supply line culverts were filled with concrete. Closure activities were completed, on August 3, 2001.

SOIL SAMPLING AND ANALYSIS

During the closure of the tanks, soil samples were collected from the materials below the two USTs by Pennoni and screened for the presence of volatile compounds using a photoionization detector (PID). The instrument was calibrated to isobutylene as a benzene standard for the measurement of volatile vapors on a part-per-million by volume (ppmv) basis. The screening was performed in accordance with Pennoni's Headspace Screening Protocol, a copy of which is provided as Appendix C. Headspace gas concentrations detected from soil samples collected ranged from <1.0 ppmv to 28.0 ppmv.



A total of three soil samples were collected and analyzed for Extractable Petroleum Hydrocarbons (EPH) and Volatile Petroleum Hydrocarbons (VPH) by DEP method. The material encountered below the USTs was pea gravel, which was saturated with fuel oil. Analytical results indicated that aliphatics, aromatics, 2-methylnaphthalene, and naphthalene were detected in the soil beneath the tanks at concentrations exceeding DEP Reportable Concentrations. Table 1 presents a summary of the soil analytical results. A copy of the laboratory analytical results are included Appendix D.

REGULATORY ACTIVITIES

On May 11, 2001, Pennoni submitted a structural evaluation letter to the Medfield Fire Department requesting in-place closure of the USTs due to potential instability of nearby Tank #1 if the USTs were to be removed. On May 25, 2001, Chief Kinsbury of the Medfield Fire Department approved the tank closure activities during a site meeting with Pennoni.

The EPH and VPH soil concentrations required a 120-day notification to the DEP, in accordance with the regulations of the MCP. Within to the 120-day timeline (June 15, 2001), inspection of an observation well located at the west end of Tank #2 indicated the presence of non-aqueous phase liquid (NAPL) (i.e. No.6 fuel oil), approximately 14 inches in thickness at a depth of about 11 feet. No other wells indicated the presence of free product. In accordance with the MCP, verbal notification of the release was submitted to Chris Bresnahan of the DEP at 12:08 p.m. on June 15, 2001. At that time, Release Tracking Number 3-20799 was assigned to the release. The time of the release and the quantity of the release are not known.

An Immediate Response Action (IRA) Plan was submitted to the DEP on August 16, 2001 related to the release. The IRA Plan documents the activities to be taken related to the release, specifically the installation of test borings and monitoring wells for the assessment of soil and groundwater conditions in the vicinity of the USTs. Notification of the UST closure was provide in the IRA Plan to the DEP. On August 29, 2001, written notification of the UST closure was submitted to the Medfield Fire Department.

CONCLUSIONS

Based on field observations, soil headspace screening results, and laboratory analytical data, a release of petroleum hydrocarbons to soil has occurred in the vicinity of the No. 6 fuel oil tanks. The following information was determined during the closure of the two tanks:

- X The USTs were found to be in poor condition with perforations near the manways and endwalls, and with rust and minor pitting. Tanks #2 and #3 were closed in-place by placement of concrete slurry in both tanks.

- X Headspace gas concentrations detected from soil samples collected during closure of the tanks ranged from <1.0 ppmv to 28.0 ppmv. The pea gravel below the tanks was saturated with fuel oil.



- X Soil samples were collected from the material beneath the tanks. The concentration of aliphatics, aromatics, 2-methylnaphthalene, and naphthalene exceeded the DEP Reportable Concentrations as set forth in the MCP.

- X Non-aqueous phase liquid (NAPL) was found in the observation well located at the west end of Tank #2. As required by the MCP, an IRA Plan was submitted to the DEP outlining the investigative activities to be completed.

Should you have any questions or require additional information, please contact the undersigned at 603-226-1950.

Very truly yours,

PENNONI ASSOCIATES INC.

Jeff A. McCullough, P.E.
Project Manager

cc: Craig B. St. Peter, P.E.
New England Regional Manager

Figure 1 Site Location Map
Figure 2 Site Plan

Table 1 Soil Samples – Summary of Analytical Results

Appendices

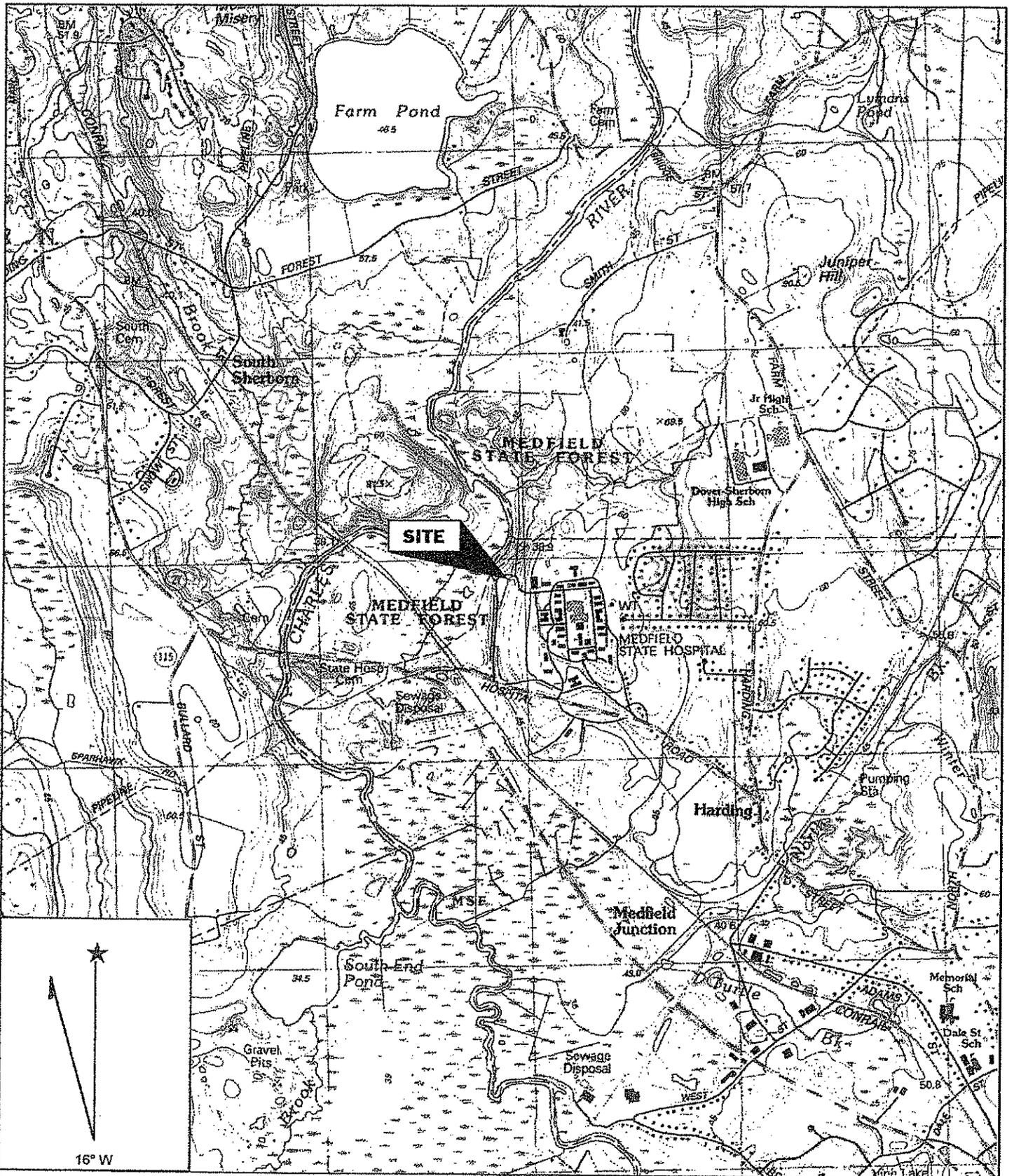
- A Photographic Log
- B Uniform Hazardous Waste Manifests
- C Pennoni's Headspace Field Screening Protocol
- D Laboratory Data

TABLE 1
Soil Samples - Summary of Analytical Results
Medfield State Hospital
45 Hospital Road, Medfield, MA

Sample Identification	Sample Date Sample Depth	Tank #3 West 6/12/01 see note 1	Tank #3 West 6/12/01 see note 1	Tank #3 East 6/12/01 see note 1	Reportable Concentration		Risk Characterization Standards Category 1-FCW-2	Method 1 Risk Characterization Standards Category 1-FCW-3
					RCS-1	RCS-2		
Extractable Petroleum Hydrocarbons (EPH) by DEP Method								
C9-C18 Aliphatics	ND	428	5470		1,000	1,000	1,000	1,000
C19-C36 Aliphatics	1510	1990	5490		2,500	2,500	2,500	2,500
C11-C22 Aromatics	1790	2220	5790		200	800	800	800
Acenaphthene	ND	ND	ND		20	1,000	1,000	1,000
Acenaphthylene	ND	ND	ND		100	100	100	100
Anthracene	ND	ND	ND		1,000	1,000	1,000	1,000
Benzo(a)anthracene	ND	ND	ND		0.7	0.7	0.7	0.7
Benzo(a)pyrene	ND	ND	ND		0.7	0.7	0.7	0.7
Benzo(b)fluoranthene	ND	ND	ND		0.7	0.7	0.7	0.7
Benzo(g,h,i)perylene	ND	ND	ND		0.7	0.7	0.7	0.7
Benzo(k)fluoranthene	ND	ND	ND		1,000	1,000	1,000	1,000
Chrysene	ND	ND	ND		7	7	7	7
Dibenz(a,h)anthracene	ND	ND	ND		7	7	7	7
Fluoranthene	ND	ND	ND		0.7	0.7	0.7	0.7
Fluorene	ND	ND	ND		1,000	1,000	1,000	1,000
Indeno(1,2,3-cd)pyrene	ND	ND	ND		400	1,000	1,000	1,000
2-Methylnaphthalene	ND	ND	ND		0.7	0.7	0.7	0.7
Naphthalene	ND	ND	ND		4	500	500	500
Phenanthrene	ND	10.6	30.6		4	100	100	100
Pyrene	ND	ND	ND		700	700	700	700
Volatiles Petroleum Hydrocarbons (VPH) by DEP Method								
C5-C8 Aliphatics	ND	ND	62		100	100	100	100
C9-C12 Aliphatics	159	160	334		1,000	1,000	1,000	1,000
C9-C10 Aromatics	79.7	196	240		100	100	100	100
Benzene	ND	ND	ND		10	40	40	40
Toluene	ND	ND	ND		90	500	500	500
Ethylbenzene	0.11	0.31	1.0		80	500	500	500
Total Xylenes	1.06	2.51	8.1		500	500	500	500
Methyl Tertiary Butyl Ether (MTBE)	ND	ND	ND		0.3	100	100	100
Naphthalene	1.25	6.83	20.8		4	100	100	100

All results are in milligrams per kilogram (mg/kg).
 ND Not detected above laboratory detection limit.
 -- Not analyzed.
 Exceeds RCS-1 Reportable Concentration.

1 - Samples collected from soil beneath specified underground storage tank.



Name: MEDFIELD
 Date: 5/15/2002
 Scale: 1 inch equals 2000 feet

Location: 042° 12' 46.9" N 071° 20' 20.7" W
 Caption: Figure 1 - Disposal Site Location Map
 Medfield Hospital Power Plant
 Medfield, Massachusetts

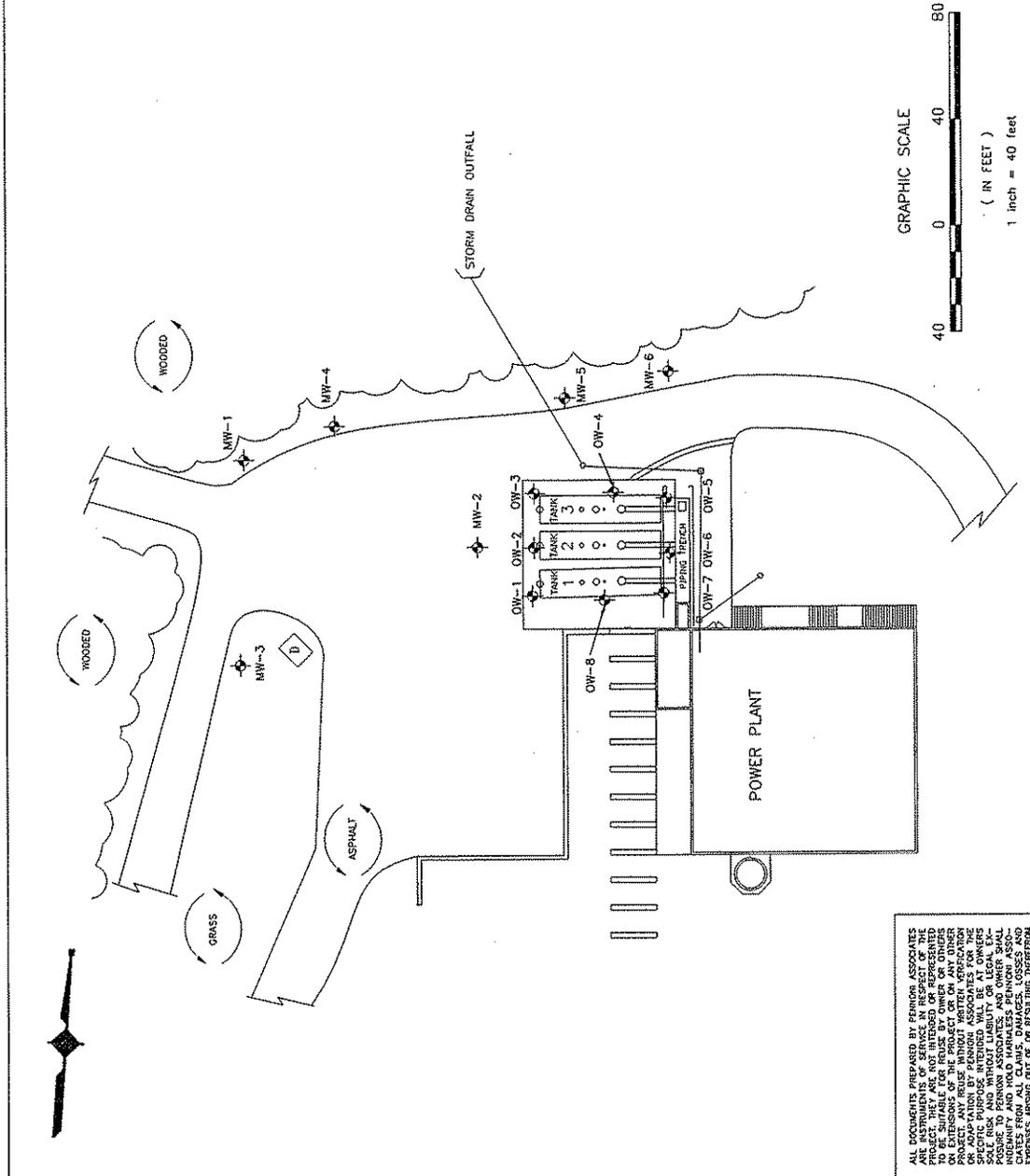
LEGEND:

-  OBSERVATION WELL
-  MONITORING WELL
-  DUMPSTER
-  CATCH BASIN
-  MW-1 WELL IDENTIFICATION
-  BENCH MARK

ALL ELEVATIONS ON THIS PLAN ARE RELATIVE TO AN ASSUMED ELEVATION OF 100.00 FEET MEASURED AT THE TOP OF A BOLT SET INTO THE TOP OF THE CONCRETE RETAINING WALL AT THE LOCATION SHOWN

SITE PLAN

LOCATION 45 HOSPITAL ROAD, MEDFIELD, MA	
CLIENT MASSACHUSETTS DEPARTMENT OF MENTAL HEALTH	
SHEET 1	TWP PROJECT NO. DOMH 0101
SCALE 1" = 40'	APPROVED BY DATE
DRAWN BY PWL	JMCC 11/28/2001
DRAW NO. SITEPLAN.DWG	
PENNONI ASSOCIATES INC. THE CONCORD CENTER, SUITE 43-4, 10 FERRY ST. UNIT 6, CONCORD, NH 03301	



GRAPHIC SCALE



(IN FEET)
1 inch = 40 feet

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Appendix A

Photographic Log

**PHOTOGRAPHIC LOG
UST CLOSURE REPORT
MEDFIELD STATE HOSPITAL**

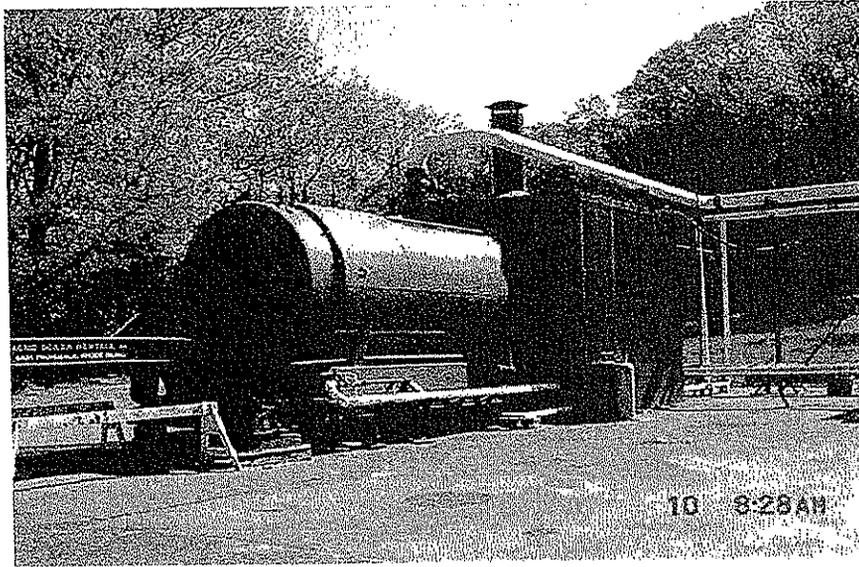


Photo 1: Temporary boiler over Tank #2 in the UST pad area.

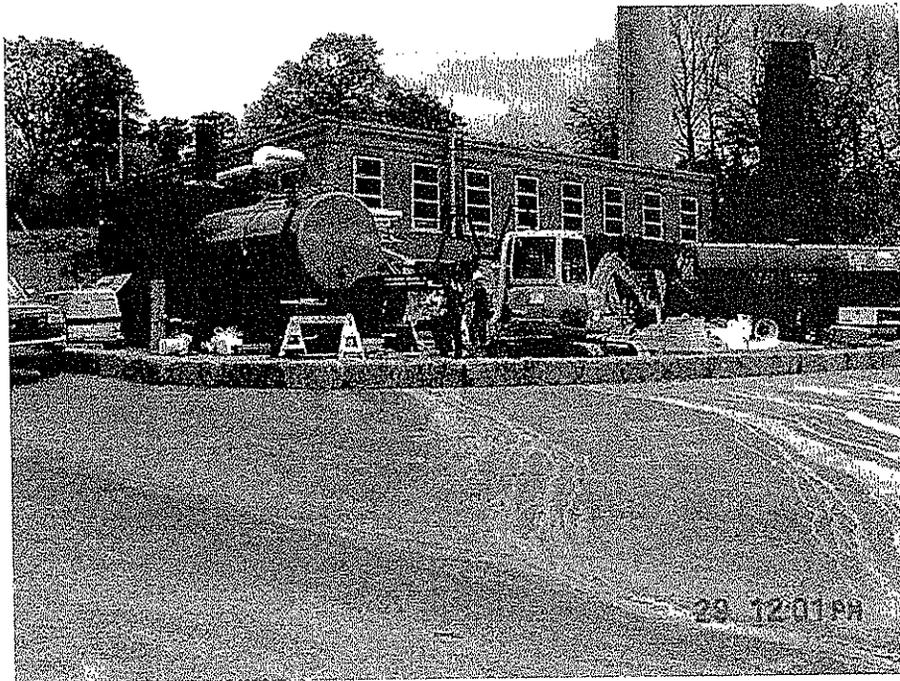


Photo 2: Overview of the Power Plant facility and temporary boiler.

**PHOTOGRAPHIC LOG
UST CLOSURE REPORT
MEDFIELD STATE HOSPITAL**

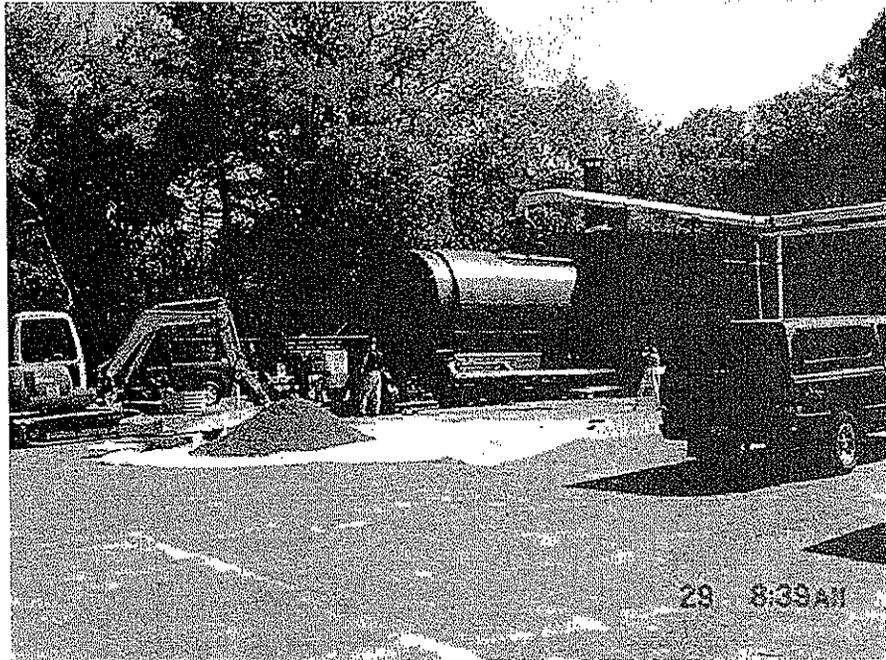


Photo 3: Excavation of the manway at the west end of Tank #2.

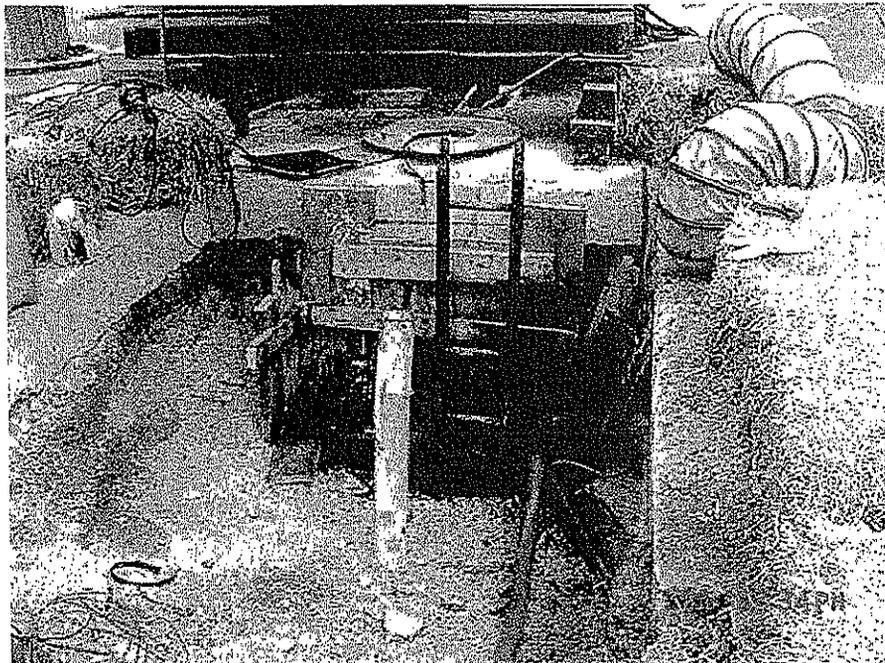


Photo 4: Tank #2 excavation and opening. PVC observation pipe in the foreground, where free product was found.

**PHOTOGRAPHIC LOG
UST CLOSURE REPORT
MEDFIELD STATE HOSPITAL**



Photo 5: Decontamination activities for Tank #2.

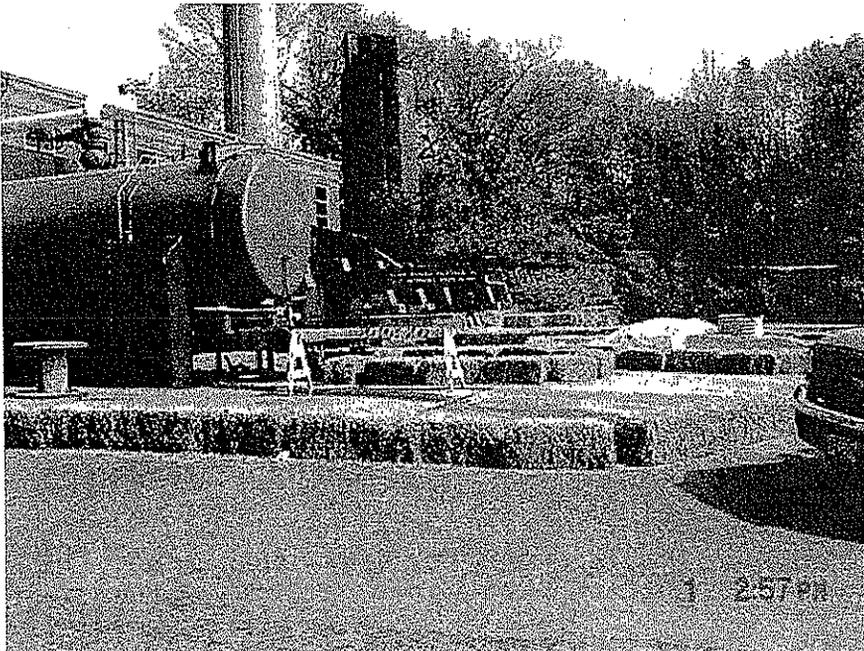
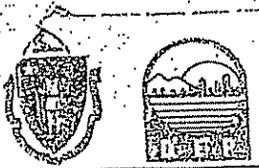


Photo 6: Hay bail construction surrounding the work area.

Appendix B

Uniform Hazardous Waste Manifests



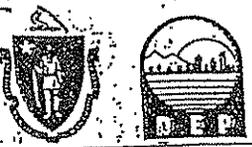
**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street Boston, Massachusetts 02108**

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In case of emergency or spill, immediately call the National Response Center (800) 424-8802

MA M 730167 COPY 2 - GENERAL UTILITIES

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MA P50RA12R39H		Manifest Document No. 29100		2. Page 1 of 1 Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address THE STATE HOSPITAL 45 HOE PITIA RD. MEDFELD, MA 02155				A. State Manifest Document Number MA M730167		B. State Gen. ID State (Boston)	
4. Generator's Phone 617-452-8394		6. US EPA ID Number MA0000000000		C. State Trans. ID 25645-MA		D. Transporter's Phone (781) 341-5100	
5. Transporter 1 Company Name CYN OIL CORPORATION		7. Transporter 2 Company Name		E. State Trans. ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address CYN OIL CORPORATION 1771 WASHINGTON ST. PO BOX 710 STURMINGTON, MA 02072				8. US EPA ID Number		G. State Facility ID NOT REQUIRED	
				10. US EPA ID Number		H. Facility's Phone (781) 341-5100	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	
a. PETROLEUM OIL, COMBUSTIBLE LIQUID, NAISPO, WILCO (WASTE OIL)						Type: DRUM Total Quantity: 2800 WASTE NO.: MA98	
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)						K. Handling Codes for Wastes Listed Above	
a.						a.	
b.						b.	
15. Special Handling Instructions and Additional Information EPSP 12B IN CASE OF EMERGENCY CALL CHEMTRAC 800 424-9313 PA 10296							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by written shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Franklin Lewis				Signature <i>[Signature]</i>		Date MAY 1998	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>[Signature]</i>		Date MAY 1998	
Printed/Typed Name Steve Kline				Signature <i>[Signature]</i>		Date MAY 1998	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19						Date	
Printed/Typed Name				Signature		Date	



COMMONWEALTH OF MASSACHUSETTS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF HAZARDOUS MATERIALS
 One Winter Street Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

In case of emergency or spill, immediately call the National Response Center (800) 424-8802

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>MA082428294</i>	Manifest Document No. <i>2919F</i>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <i>MEDFIELD STATE HOSPITAL 45 HOSPITAL RD MEDFIELD, MA</i>				A. State Manifest Document Number <i>MA M 730178</i>			
4. Generator's Phone <i>617 242 8294</i>		6. US EPA ID Number <i>MA082203777</i>		C. State Trans. ID <i>25648 MA</i>			
5. Transporter 1 Company Name <i>CYN OIL CORPORATION</i>		8. US EPA ID Number		D. Transporter's Phone <i>(781) 341-5108</i>			
7. Transporter 2 Company Name		10. US EPA ID Number <i>MA082203777</i>		E. State Trans. ID			
9. Designated Facility Name and Site Address <i>CYN OIL CORPORATION 1771 WASHINGTON ST. PO BOX 119 STOUGHTON, MA 02072</i>				F. Transporter's Phone			
				G. State Facility's ID <i>NOT REQUIRED</i>			
				H. Facility's Phone <i>(781) 341-5108</i>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. UN or HM	15. WASTE NO.	
a. <i>PETROLEUM OIL, COMBUSTIBLE LIQUID, NA1270, FGIII, (WASTE OIL)</i>		<i>001</i>	<i>TT</i>	<i>625</i>	<i>G</i>	<i>MA98</i>	
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)					K. Handling Codes for Wastes Listed Above		
a.					a.		
b.					b.		
c.					c.		
d.					d.		
15. Special Handling Instructions and Additional Information <i>ERG# 128 IN CASE OF EMERGENCY CALL CHEMTREC 800-424-9000 24 HOURS</i>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are class packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economic practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name		Signature		Date		Date	
<i>JEFF CORNAGLIA</i>		<i>Jeff Cornaglia</i>		<i>06/10/10</i>		<i>06/10/10</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Date		Date	
<i>Steve White</i>		<i>Steve White</i>		<i>06/10/10</i>		<i>06/10/10</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19							
Printed/Typed Name		Signature		Date		Date	



DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
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PRESS HARD - YOU ARE WRITING THROUGH EIGHT PLYS - USE BALLPOINT PEN

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TRANSPORTER

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MA P58A 292 8294		Manifest Document No. 29199		2. Page 1 of 1		Information in the shaded area is not required by Federal law			
3. Generator's Name and Mailing Address MIDDLEBURY STATE HOSPITAL 45 HOSPITAL ROAD MIDDLEBURY MA 05752						A. State Manifest Document Number MA M721072					
4. Generator's Phone 508-892-8294						B. State Gen. ID Same					
5. Transporter 1 Company Name CYN OIL CORPORATION				6. US EPA ID Number MAD082303777		C. State Trans. ID MA 17426					
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone (781) 341-510					
9. Designated Facility Name and Site Address CYN OIL CORPORATION 1771 WASHINGTON ST. PO. BOX 119 STOUGHTON, MA 02072						10. US EPA ID Number MAD082303777					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No. Type		13. Total Quantity		14. WASTE NO.	
a. PETROLEUM OIL, COMBUSTIBLE LIQUID, NA1270, PGIII, (WASTE OIL)						001 TT		5660		G MA 98	
b.											
c.											
d.											
Additional Descriptions for Materials Listed Above (include physical state and hazard code).						K. Handling Codes for Wastes Listed Above:					
15. Special Handling Instructions and Additional Information ERG# 128 IN CASE OF EMERGENCY CALL CHEMTREC. 800-424-9300 24 HOURS											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name JAMES M. GIBSON				Signature James M. Gibson		Date 07/08					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Bernard J. Corcoran				Signature Bernard J. Corcoran		Date 07/08					
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Date					
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19											
Printed/Typed Name				Signature		Date					



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One Winter Street Boston, Massachusetts 02108

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MA 508 242-8294		Manifest Document No. 29199		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Medfield STATE HOSPITAL 45 HOSPITAL RD Medfield MA 508 242-8294				A. State Manifest Document Number MA M705787		B. State Gen. ID SAME			
4. Transporter 1 Company Name CYN OIL CORPORATION		6. US EPA ID Number MA000230377		C. State Trans. ID 17436 MA		D. Transporter's Phone (781) 341-5108			
5. Transporter 2 Company Name		8. US EPA ID Number		E. State Trans. ID		F. Transporter's Phone			
7. Designated Facility Name and Site Address CYN OIL CORPORATION 1771 WASHINGTON ST. PO BOX 119 STOURBRIDGE, MA 02072				10. US EPA ID Number MA000230377		G. State Facility's ID NOT REQUIRED			
				H. Facility's Phone (781) 341-5108					
8. US DOT Description (including Proper Shipping Name, Hazard Class, etc.)									
9. REGULATED WASTE ONLY WASTE OIL HAZARDOUS MATERIAL									
10. Additional Descriptions for Materials Listed Above (include physical, state and hazard code.)									
a. OIL + WATER				K. Handling Codes for Wastes Listed Above					
b.				a.		c.			
c.				b.		d.			
15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY CALL 800 DEP 1008 24 HOURS									
16. GENERATOR'S CERTIFICATION. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.									
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed Typed Name Tommy Miller				Signature <i>[Signature]</i>		Date 10/10/99			
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed Typed Name				Signature		Date			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.									
Printed Typed Name				Signature		Date			

MA M 705787 COPY 2: FACILITY MAITS TO GENERATOR STATE

Approved OMB No. 2050-0099.
EPA Form 8700-22 (Rev. 9/89) Previous editions are obsolete.

Appendix C

Pennoni's Headspace Field Screening Protocol

PENNONI ASSOCIATES INC.

PID / Jar-Headspace Analytical Screening Protocol For Volatile Compounds In Soil

A photoionization detector (PID) is a portable field meter, which is used to detect the presence of volatile compounds. The meter is equipped with a fan or pump that draws a vapor sample into the meter's detector. The meter responds to the presence of compounds in the vapor, which have ionization potentials at or less than the lamp rating on the meter. The meter does not differentiate between different compounds, and the meter response varies for different compounds. The meter readings, provided in parts per million by volume (ppmv), therefore are semi-quantitative in nature. Pennoni uses two HNu Systems, Inc. PI-101 PID's, equipped with a 10.2 eV or 11.7 eV lamp, and a Thermo Environmental Instruments, Inc. Model 580B OVM/Datalogger, equipped with a 11.8 eV lamp.

A PID may be used to evaluate soil samples for the presence of volatile compounds by sampling the vapors as they volatilize (evaporate) from the soil sample. This screening procedure does not provide a true determination of compound concentration in the soil. The PID is useful for screening soil samples for possible contamination and for the evaluation of the relative degree of volatile compound contamination in soil. The PID is standardized to a benzene standard.

The following procedures are used to screen soils for the presence of volatile compounds with a PID using the jar-headspace method:

1. The meter is calibrated to a benzene analog standard using a manufactures standard prior to screening.
2. A clean glass jar having a capacity between 250 ml (8 oz.) and 500 ml (16 oz.) is half-full with the soil sample to be screened. The top of the jar is covered with a sheet of aluminum foil and the cap is screwed on.
3. Headspace gases over the sample are allowed to equilibrate for approximately 10 minutes, at ambient air temperature. If ambient temperature is below freezing, headspace development occurs in a heated vehicle or space.
4. The jar is vigorously shaken for 15 seconds at the beginning and the end of the equilibration period.
5. The probe of the PID meter is inserted through the foil and the maximum meter reading is recorded.

For soil screening and evaluation activities conducted for sites located in Massachusetts, this protocol is in accordance with procedures established in the Massachusetts Department of Environmental

Protection Interim Remediation Waste Management Policy for Petroleum Contaminated Sites, #WSC-94-400.

Appendix D

Laboratory Data

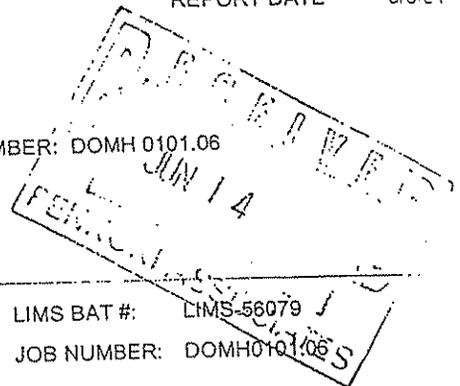


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REPORT DATE 6/6/07

PENNONI ASSOCIATES
THE CONCORD CTR, STE 311, 10 FERRY ST.#6
CONCORD, NH 03301
ATTN: JEFF MCCULLOUGH

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: DOMH 0101.06
PROJECT NUMBER:



ANALYTICAL SUMMARY

LIMS BAT #: LIMS-56079
JOB NUMBER: DOMH0101.06

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: MEDFIELD STATE HOSPITAL

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
*T-2W	01B15119	SOIL	TANK 2 WEST END	eph - solid
*T-2W	01B15119	SOIL	TANK 2 WEST END	solids eph/vph
*T-2W	01B15119	SOIL	TANK 2 WEST END	vph - solid
T-3E	01B15120	SOIL	TANK 3 EAST	eph - solid
T-3E	01B15120	SOIL	TANK 3 EAST	solids eph/vph
T-3E	01B15120	SOIL	TANK 3 EAST	vph - solid
T-3W	01B15121	SOIL	TANK 3 WEST	eph - solid
T-3W	01B15121	SOIL	TANK 3 WEST	solids eph/vph
T-3W	01B15121	SOIL	TANK 3 WEST	vph - solid

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033
MASSACHUSETTS MA0100	NEW HAMPSHIRE 2516
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036
NEW YORK ELAP 10899	RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 6/6/07
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample



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 CONCORD, NH 03301

6/6/01
 Page 1 of 11

Purchase Order No.: DOMH 0101.06

Project Location: MEDFIELD STATE HOSPITAL
 Date Received: 6/1/01
 Field Sample #: T-2W
 Sample ID: *01B15119

LIMS-BAT #: LIMS-56079
 Job Number: DOMH0101.06

Sampled: 6/1/01
 TANK 2 WEST END

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
C9-C18 Aliphatics	mg/kg dry wt.	467.	06/05/01	KKP	372.			
C19-C36 Aliphatics	mg/kg dry wt.	2180.	06/05/01	KKP	39.5			
C11-C22 Aromatics	mg/kg dry wt.	1800.	06/05/01	KKP	210.			
Acenaphthene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Acenaphthylene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Anthracene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Benzo(a)anthracene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Benzo(a)pyrene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Benzo(b)fluoranthene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Benzo(g,h,i)perylene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Benzo(k)fluoranthene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Chrysene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Dibenzo(a,h)anthracene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Fluoranthene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Fluorene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
2-Methylnaphthalene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Naphthalene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Phenanthrene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Pyrene	mg/kg dry wt.	ND	06/05/01	KKP	10.3			
Date Extracted EPH Solid		6/4/2001	06/05/01	KKP				

RL = Reporting Limit
 ND = Not Detected
 NM = Not Measured

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* = See end of report for comments and notes applying to this sample



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CONCORD, NH 03301

Purchase Order No.: DOMH 0101.06

6/6/01
Page 2 of 11

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/1/01
Field Sample #: T-2W

LIMS-BAT #: LIMS-56079
Job Number: DOMH0101.06

Analytical Method:
MADEP-EPH-98-1 REVISION 0

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE. SUMMED RANGES ARE CORRECTED FOR LABORATORY METHOD BLANK.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS ARE LIMITED TO THE SUBTRACTION OF METHOD BLANK CONTRIBUTION FROM THE SUMMED RANGES AND EXTRACTION BY PRESSURIZED FLUID EXTRACTION (SW846 3545) (ASE).

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE DETAILED IN THE NOTES SECTION OF THIS REPORT.

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Purchase Order No.: DOMH 0101.06

6/6/01
 Page 3 of 11

Project Location: MEDFIELD STATE HOSPITAL
 Date Received: 6/1/01
 Field Sample #: T-3E
 Sample ID: 01B15120
 Sample Matrix: SOIL

LIMS-BAT #: LIMS-56079
 Job Number: DOMH0101.06

Sampled: 6/1/01
 TANK 3 EAST

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/F
						Lo	Hi	
C9-C18 Aliphatics	mg/kg dry wt.	1680.	06/05/01	KKP	937.			
C19-C36 Aliphatics	mg/kg dry wt.	7150.	06/05/01	KKP	99.4			
C11-C22 Aromatics	mg/kg dry wt.	7250.	06/05/01	KKP	528.			
Acenaphthene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Acenaphthylene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Anthracene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Benzo(a)anthracene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Benzo(a)pyrene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Benzo(b)fluoranthene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Benzo(g,h,i)perylene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Benzo(k)fluoranthene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Chrysene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Dibenzo(a,h)anthracene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Fluoranthene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Fluorene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
2-Methylnaphthalene	mg/kg dry wt.	74.6	06/05/01	KKP	25.9			
Naphthalene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Phenanthrene	mg/kg dry wt.	35.2	06/05/01	KKP	25.9			
Pyrene	mg/kg dry wt.	ND	06/05/01	KKP	25.9			
Date Extracted EPH Solid		6/4/2001	06/05/01	KKP				

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* = See end of report for comments and notes applying to this sample



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6/6/01
Page 4 of 11

Purchase Order No.: DOMH 0101.06

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/1/01
Field Sample # : T-3E

LIMS-BAT #: LIMS-56079
Job Number: DOMH0101.06

Analytical Method:

MADEP-EPH-98-1 REVISION 0

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE. SUMMED RANGES ARE CORRECTED FOR LABORATORY METHOD BLANK.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS ARE LIMITED TO THE SUBTRACTION OF METHOD BLANK CONTRIBUTION FROM THE SUMMED RANGES AND EXTRACTION BY PRESSURIZED FLUID EXTRACTION (SW846 3545) (ASE).

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE DETAILED IN THE NOTES SECTION OF THIS REPORT.

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* = See end of report for comments and notes applying to this sample



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CONCORD, NH 03301

6/6/01
Page 6 of 11

Purchase Order No.: DOMH 0101.06

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/1/01
Field Sample #: T-3W

LIMS-BAT #: LIMS-56079
Job Number: DOMH0101.06

Analytical Method:
MADEP-EPH-98-1 REVISION 0

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE. SUMMED RANGES ARE CORRECTED FOR LABORATORY METHOD BLANK.

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YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

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Purchase Order No.: DOMH 0101.06

6/6/01
Page 8 of 11

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/1/01
Field Sample #: T-2W
Sample ID: 01B15119
Sample Matrix: SOIL

Sampled: 6/1/01
TANK 2 WEST END

LIMS-BAT #: LIMS-56079
Job Number: DOMH0101.06

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/F
						Lo	Hi	
C5-C8 Aliphatics	ug/kg dry wt.	ND	06/05/01	KKP	61300.			
C9-C12 Aliphatics	ug/kg dry wt.	159000.	06/05/01	KKP	22000.			
C9-C10 Aromatics	ug/kg dry wt.	79700.	06/05/01	KKP	18700.			
Benzene	ug/kg dry wt.	ND	06/05/01	KKP	110.			
Ethylbenzene	ug/kg dry wt.	110.	06/05/01	KKP	110.			
MTBE	ug/kg dry wt.	ND	06/05/01	KKP	270.			
Naphthalene	ug/kg dry wt.	1250.	06/05/01	KKP	108.			
Toluene	ug/kg dry wt.	ND	06/05/01	KKP	330.			
m/p-Xylene	ug/kg dry wt.	650.	06/05/01	KKP	380.			
o-Xylene	ug/kg dry wt.	410.	06/05/01	KKP	220.			

Analytical Method:

MADEP-VPH-98-1 REVISION 0

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED AND CORRECTED FOR LABORATORY METHOD BLANK. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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* = See end of report for comments and notes applying to this sample



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CONCORD, NH 03301

Purchase Order No.: DOMH 0101.06

6/6/01
Page 9 of 11

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/1/01
Field Sample #: T-3E
Sample ID: 01B15120
Sample Matrix: SOIL

LIMS-BAT #: LIMS-56079
Job Number: DOMH0101.06

Sampled : 6/1/01
TANK 3 EAST

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/F
						Lo	Hi	
C5-C8 Aliphatics	ug/kg dry wt.	62000.	06/05/01	KKP	61000.			
C9-C12 Aliphatics	ug/kg dry wt.	334000.	06/05/01	KKP	21800.			
C9-C10 Aromatics	ug/kg dry wt.	240000.	06/05/01	KKP	18600.			
Benzene	ug/kg dry wt.	ND	06/05/01	KKP	110.			
Ethylbenzene	ug/kg dry wt.	1000.	06/05/01	KKP	110.			
MTBE	ug/kg dry wt.	ND	06/05/01	KKP	270.			
Naphthalene	ug/kg dry wt.	20800.	06/05/01	KKP	108.			
Toluene	ug/kg dry wt.	ND	06/05/01	KKP	320.			
m/p-Xylene	ug/kg dry wt.	5000.	06/05/01	KKP	380.			
o-Xylene	ug/kg dry wt.	3100.	06/05/01	KKP	220.			

Analytical Method:

MADEP-VPH-98-1 REVISION 0

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED AND CORRECTED FOR LABORATORY METHOD BLANK. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

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ND = Not Detected

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* = See end of report for comments and notes applying to this sample



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CONCORD, NH 03301

Purchase Order No.: DOMH 0101.06

6/6/01
Page 10 of 11

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/1/01
Field Sample #: T-3W
Sample ID: 01B15121
Sample Matrix: SOIL

Sampled: 6/1/01
TANK 3 WEST

LIMS-BAT #: LIMS-56079
Job Number: DOMH0101.06

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
C5-C8 Aliphatics	ug/kg dry wt.	ND	06/05/01	KKP	60800.		
C9-C12 Aliphatics	ug/kg dry wt.	160000.	06/05/01	KKP	21800.		
C9-C10 Aromatics	ug/kg dry wt.	106000.	06/05/01	KKP	18600.		
Benzene	ug/kg dry wt.	ND	06/05/01	KKP	110.		
Ethylbenzene	ug/kg dry wt.	310.	06/05/01	KKP	110.		
MTBE	ug/kg dry wt.	ND	06/05/01	KKP	270.		
Naphthalene	ug/kg dry wt.	6830.	06/05/01	KKP	108.		
Toluene	ug/kg dry wt.	ND	06/05/01	KKP	320.		
m/p-Xylene	ug/kg dry wt.	1600.	06/05/01	KKP	380.		
o-Xylene	ug/kg dry wt.	910.	06/05/01	KKP	220.		

Analytical Method:

MADEP-VPH-98-1 REVISION 0

SAMPLES ARE PRESERVED WITH METHANOL AND CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PID/FID DETECTION. SUMMED RANGES ARE REPORTED WITH TARGET COMPOUND CONTRIBUTIONS SUBTRACTED AND CORRECTED FOR LABORATORY METHOD BLANK. C9-C12 ALIPHATIC HYDROCARBONS EXCLUDE THE CONCENTRATION OF C9-C10 AROMATIC HYDROCARBONS.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

NO SIGNIFICANT MODIFICATIONS WERE MADE TO THE METHOD.

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE LISTED IN THE NOTES SECTION OF THIS REPORT.

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



con-test
ANALYTICAL LABORATORY

39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

JEFF MCCULLOUGH
PENNONI ASSOCIATES
THE CONCORD CTR, STE 311, 10 FERRY ST.#6
CONCORD, NH 03301

6/6/01
Page 11 of 11

Purchase Order No.: DOMH 0101.06

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/1/01

LIMS-BAT #: LIMS-56079
Job Number: DOMH0101.06

The following notes were attached to the reported analysis :

Sample ID: * 01B15119 - 01B15121
Analysis: eph - solid

Required QC not performed for all EPH samples.

** END OF REPORT **

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* = See end of report for comments and notes applying to this sample



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 6/6/01 Lims Bat # : LIMS-56079 Page 1 of 4

QC Batch Number: GC/FID-5195

Sample Id	Analysis	QC Analysis	Values	Units	Limits
01B15119	2,5-Dibromotoluene (FID)	Sur. Recovery (FID)	97.9	%	70-130
01B15120	2,5-Dibromotoluene (FID)	Sur. Recovery (FID)	80.0	%	70-130
01B15121	2,5-Dibromotoluene (FID)	Sur. Recovery (FID)	110.0	%	70-130
BLANK-33864	C5-C8 Aliphatics	Blank	<6020.	ug/kg dry wt.	
	C9-C12 Aliphatics	Blank	<2160.	ug/kg dry wt.	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 6/6/01 Lims Bat #: LIMS-56079 Page 2 of 4

QC Batch Number: GC/FID-5198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
01B15119	2-Fluorobiphenyl	Surrogate Recovery	79.2	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	80.4	%	40-140
	Chlorooctadecane	Sur. Recovery	72.0	%	40-140
	Terphenyl	Sur. Recovery	90.0	%	40-140
01B15120	2-Fluorobiphenyl	Surrogate Recovery	91.4	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	92.2	%	40-140
	Chlorooctadecane	Sur. Recovery	80.0	%	40-140
	Terphenyl	Sur. Recovery	82.5	%	40-140
01B15121	2-Fluorobiphenyl	Surrogate Recovery	41.8	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	90.0	%	40-140
	Chlorooctadecane	Sur. Recovery	100.0	%	40-140
	Terphenyl	Sur. Recovery	100.0	%	40-140
BLANK-33876	Naphthalene	Blank	<0.5	mg/kg dry wt.	
	Acenaphthene	Blank	<0.5	mg/kg dry wt.	
	Acenaphthylene	Blank	<0.5	mg/kg dry wt.	
	Anthracene	Blank	<0.5	mg/kg dry wt.	
	Benzo(a)anthracene	Blank	<0.5	mg/kg dry wt.	
	Benzo(a)pyrene	Blank	<0.5	mg/kg dry wt.	
	Benzo(b)fluoranthene	Blank	<0.5	mg/kg dry wt.	
	Benzo(g,h,i)perylene	Blank	<0.5	mg/kg dry wt.	
	Chrysene	Blank	<0.5	mg/kg dry wt.	
	Dibenzo(a,h)anthracene	Blank	<0.5	mg/kg dry wt.	
	Fluoranthene	Blank	<0.5	mg/kg dry wt.	
	Fluorene	Blank	<0.5	mg/kg dry wt.	
	Indeno(1,2,3-cd)pyrene	Blank	<0.5	mg/kg dry wt.	
	2-Methylnaphthalene	Blank	<0.5	mg/kg dry wt.	
	Phenanthrene	Blank	<0.5	mg/kg dry wt.	
	Pyrene	Blank	<0.5	mg/kg dry wt.	
	Benzo(k)fluoranthene	Blank	<0.5	mg/kg dry wt.	
	C9-C18 Aliphatics	Blank	<18.1	mg/kg dry wt.	
C19-C36 Aliphatics	Blank	6.9	mg/kg dry wt.		
C11-C22 Aromatics	Blank	<10.2	mg/kg dry wt.		



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 6/6/01

Lims Bat #: LIMS-56079

Page 3 of 4

QC Batch Number: GC/PID-4379

Sample Id	Analysis	QC Analysis	Values	Units	Limits
01B15119	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	113.3	%	70-130
01B15120	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	90.0	%	70-130
01B15121	2,5-Dibromotoluene (PID)	Sur. Recovery (PID)	104.2	%	70-130
BLANK-33863	Benzene	Blank	<11.	ug/kg dry wt.	
	Ethylbenzene	Blank	<11.	ug/kg dry wt.	
	Naphthalene	Blank	<10.7	ug/kg dry wt.	
	Toluene	Blank	<32.	ug/kg dry wt.	
	o-Xylene	Blank	<21.	ug/kg dry wt.	
	m/p-Xylene	Blank	<37.	ug/kg dry wt.	
	C9-C10 Aromatics	Blank	<1840.	ug/kg dry wt.	
	MTBE	Blank	<27.	ug/kg dry wt.	
LFBLANK-16298	Benzene	Lab Fort Blank Amt.	3333.3	ug/kg dry wt.	
		Lab Fort Blk. Found	3707.5	ug/kg dry wt.	
		Lab Fort Blk. % Rec.	111.2	%	70-130
	Ethylbenzene	Lab Fort Blank Amt.	3333.3	ug/kg dry wt.	
		Lab Fort Blk. Found	3259.6	ug/kg dry wt.	
		Lab Fort Blk. % Rec.	97.8	%	70-130
	Naphthalene	Lab Fort Blank Amt.	3333.3	ug/kg dry wt.	
		Lab Fort Blk. Found	3106.6	ug/kg dry wt.	
		Lab Fort Blk. % Rec.	93.2	%	70-130
	Toluene	Lab Fort Blank Amt.	3333.3	ug/kg dry wt.	
		Lab Fort Blk. Found	3588.4	ug/kg dry wt.	
		Lab Fort Blk. % Rec.	107.7	%	70-130
	o-Xylene	Lab Fort Blank Amt.	3333.3	ug/kg dry wt.	
		Lab Fort Blk. Found	3509.1	ug/kg dry wt.	
		Lab Fort Blk. % Rec.	105.3	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	6689.3	ug/kg dry wt.	
		Lab Fort Blk. Found	6519.3	ug/kg dry wt.	
		Lab Fort Blk. % Rec.	97.5	%	70-130
	MTBE	Lab Fort Blank Amt.	3333.3	ug/kg dry wt.	
		Lab Fort Blk. Found	3713.2	ug/kg dry wt.	
		Lab Fort Blk. % Rec.	111.4	%	70-130



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 6/6/01

Lims Bat #: LIMS-56079

Page 4 of 4

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.

LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Blank Method Blank that has been taken though all the steps of the analysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.

Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

Client Name: Pennoni Associates Inc
 Attn: Jeff McCullough
 Address: The Concord Center, Suite 434
110 Ferry St. Unit 6 03301
 Site Location: Medfield State Hospital
 Sampled By: Philip LaMoreaux
 Call Results: Yes No
 Fax Results: Yes No

Telephone: 603 226 1950
 Batch #: _____
 Project #: DOMH 0101.06
 Client P.O. #: DOMH 0101.06
 Fax #: 603 226 3235

LIMS # 56079
Analysis Required

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED		Composite	Grab	MATRIX					Preservative (Use Code)	Container (Use Code)
			Date	Time			WATER	GROUND WATER	OKG WATER	Soil	Air		
T-2W	Tank - 2 West End	01B15119	6/15/01	10:10		X		X				2V	EPH
T-3E	Tank - 3 East	15720	6/16/01	14:15		X		X				3/0	X
T-3W	Tank - 3 West	15721	6/16/01	14:45		X		X				2V	X

CONTAINER CODE
 P: PLASTIC (____ Size) V = 40 ml vial G = Glass (____ size) A = 1000 ml Amber 0 = Other _____

Received by: (Signature) _____
 for Pick up by _____
 Can Test _____

Received by: (Signature) _____
 Date Time: 6/1/01 1730

Received by: (Signature) _____
 Date Time: 6-1-01 15:15

Received by: (Signature) _____
 Date Time: _____

PRESERVATIVE CODE: _____
 I = ICED N = HNO₃ H = HCl S = NaOH T = Na₂S₂O₃ O = OTHER _____

Turnaround Requested: _____ 24-Hour _____ 48-Hour _____ Normal _____
 Other: 6/6/01 Date Required _____

Remarks/Comments:
 Please call/Fax results ASAP.
 W/O notified client (PH) that per on EPA docs did not meet. (PH) HE SAY OK - FAX + REVO ANALYSIS. DO NOT



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REPORT DATE 6/15/07

PENNONI ASSOCIATES
THE CONCORD CTR, STE 311, 10 FERRY ST.#6
CONCORD, NH 03301
ATTN: JEFF MCCULLOUGH

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: DOMH 0101.06

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS,BAT # - LIMS-58155
JOB NUMBER: DOMH 0101.06

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: MEDFIELD STATE HOSPITAL

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
T-2W	01B15513	SOIL	TANK 2 WEST END	eph - solid
T-3E	01B15514	SOIL	TANK 3 EAST	eph - solid
T-3W	01B15515	SOIL	TANK 3 WEST	eph - solid

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033
MASSACHUSETTS MA0100	NEW HAMPSHIRE 2516
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036
NEW YORK ELAP 10899	RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 6/15/07

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director



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JEFF MCCULLOUGH
 PENNONI ASSOCIATES
 THE CONCORD CTR, STE 311, 10 FERRY ST.#6
 CONCORD, NH 03301

Purchase Order No.: DOMH 0101.06

6/15/01
 Page 1 of 7

Project Location: MEDFIELD STATE HOSPITAL
 Date Received: 6/6/01
 Field Sample #: T-2W
 Sample ID: 01B15513
 Sample Matrix: SOIL

LIMS-BAT #: LIMS-56155
 Job Number: DOMH 0101.06

Sampled : 6/1/01
 TANK 2 WEST END

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/F
						Lo	Hi	
C9-C18 Aliphatics	mg/kg dry wt.	ND	06/14/01	KKP	372.			
C19-C36 Aliphatics	mg/kg dry wt.	1510.	06/14/01	KKP	39.5			
C11-C22 Aromatics	mg/kg dry wt.	1730.	06/14/01	KKP	210.			
Acenaphthene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Acenaphthylene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Anthracene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Benzo(a)anthracene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Benzo(a)pyrene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Benzo(b)fluoranthene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Benzo(g,h,i)perylene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Benzo(k)fluoranthene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Chrysene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Dibenzo(a,h)anthracene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Fluoranthene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Fluorene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
2-Methylnaphthalene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Naphthalene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Phenanthrene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Pyrene	mg/kg dry wt.	ND	06/14/01	KKP	10.3			
Date Extracted EPH Solid		6/7/2001	06/14/01	KKP				

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JEFF MCCULLOUGH
PENNONI ASSOCIATES
THE CONCORD CTR, STE 311, 10 FERRY ST.#6
CONCORD, NH 03301

Purchase Order No.: DOMH 0101.06

6/15/01
Page 2 of 7

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/6/01
Field Sample #: T-2W

LIMS-BAT #: LIMS-56155
Job Number: DOMH 0101.06

Analytical Method:

MADEP-EPH-98-1 REVISION 0

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE. SUMMED RANGES ARE CORRECTED FOR LABORATORY METHOD BLANK.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS ARE LIMITED TO THE SUBTRACTION OF METHOD BLANK CONTRIBUTION FROM THE SUMMED RANGES AND EXTRACTION BY PRESSURIZED FLUID EXTRACTION (SW846 3545) (ASE).

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE DETAILED IN THE NOTES SECTION OF THIS REPORT.

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JEFF MCCULLOUGH
PENNONI ASSOCIATES
THE CONCORD CTR, STE 311, 10 FERRY ST.#6
CONCORD, NH 03301

6/15/01
Page 4 of 7

Purchase Order No.: DOMH 0101.06

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/6/01
Field Sample #: T-3E

LIMS-BAT #: LIMS-56155
Job Number: DOMH 0101.06

Analytical Method:
MADEP-EPH-98-1 REVISION 0

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE. SUMMED RANGES ARE CORRECTED FOR LABORATORY METHOD BLANK.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS ARE LIMITED TO THE SUBTRACTION OF METHOD BLANK CONTRIBUTION FROM THE SUMMED RANGES AND EXTRACTION BY PRESSURIZED FLUID EXTRACTION (SW846 3545) (ASE).

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE DETAILED IN THE NOTES SECTION OF THIS REPORT.

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* = See end of report for comments and notes applying to this sample



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PENNONI ASSOCIATES
THE CONCORD CTR, STE 311, 10 FERRY ST.#6
CONCORD, NH 03301

Purchase Order No.: DOMH 0101.06

6/15/01
Page 6 of 7

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/6/01
Field Sample #: T-3W

LIMS-BAT #: LIMS-56155
Job Number: DOMH 0101.06

Analytical Method:

MADEP-EPH-98-1 REVISION 0

SAMPLES ARE EXTRACTED WITH METHYLENE CHLORIDE, EXCHANGED INTO HEXANE AND CONCENTRATED. ALIPHATIC AND AROMATIC FRACTIONS ARE SEPARATED. ANALYSIS IS BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION. PAH AND C10-C22 AROMATICS ARE DETERMINED IN THE METHYLENE CHLORIDE FRACTION. C9-C18 AND C19-C36 ALIPHATICS ARE DETERMINED IN THE HEXANE FRACTION. TARGET COMPOUND CONTRIBUTIONS ARE SUBTRACTED FROM THE SUMMED AROMATIC RANGE. SUMMED RANGES ARE CORRECTED FOR LABORATORY METHOD BLANK.

REPORTED DETECTION LIMITS (MDL) ARE THE REPORTING LIMITS (RL) CALCULATED ACCORDING TO THE METHOD.

SIGNIFICANT MODIFICATIONS ARE LIMITED TO THE SUBTRACTION OF METHOD BLANK CONTRIBUTION FROM THE SUMMED RANGES AND EXTRACTION BY PRESSURIZED FLUID EXTRACTION (SW846 3545) (ASE).

WERE ALL QA/QC PROCEDURES REQUIRED BY THE METHOD FOLLOWED?

YES NO

WERE ALL PERFORMANCE/ACCEPTANCE STANDARDS FOR REQUIRED QA/QC PROCEDURES ACHIEVED?

YES NO

DETAILS OF ANY NON-CONFORMANCE WITH QA/QC REQUIREMENTS, PERFORMANCE, OR ACCEPTANCE CRITERIA ARE DETAILED IN THE NOTES SECTION OF THIS REPORT.

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CONCORD, NH 03301

Purchase Order No.: DOMH 0101.06

6/15/01
Page 7 of 7

Project Location: MEDFIELD STATE HOSPITAL
Date Received: 6/6/01

LIMS-BAT #: LIMS-56155
Job Number: DOMH 0101.06

** END OF REPORT **

RL = Reporting Limit
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* = See end of report for comments and notes applying to this sample



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 6/15/01 Lims Bat #: LIMS-56155 Page 1 of 4

QC Batch Number: GC/FID-5248

Sample Id	Analysis	QC Analysis	Values	Units	Limits
01B15513	2-Fluorobiphenyl	Surrogate Recovery	100.0	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	81.6	%	40-140
	Chlorooctadecane	Sur. Recovery	78.0	%	40-140
	Terphenyl	Sur. Recovery	100.0	%	40-140
01B15514	2-Fluorobiphenyl	Surrogate Recovery	99.6	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	72.0	%	40-140
	Chlorooctadecane	Sur. Recovery	0.0	%	40-140
	Terphenyl	Sur. Recovery	0.0	%	40-140
01B15515	2-Fluorobiphenyl	Surrogate Recovery	99.6	%	40-140
	2-Bromonaphthalene	Surrogate Recovery	81.6	%	40-140
	Chlorooctadecane	Sur. Recovery	64.0	%	40-140
	Terphenyl	Sur. Recovery	99.0	%	40-140
BLANK-34071	Naphthalene	Blank	<0.5	mg/kg dry wt.	
	Acenaphthene	Blank	<0.5	mg/kg dry wt.	
	Acenaphthylene	Blank	<0.5	mg/kg dry wt.	
	Anthracene	Blank	<0.5	mg/kg dry wt.	
	Benzo(a)anthracene	Blank	<0.5	mg/kg dry wt.	
	Benzo(a)pyrene	Blank	<0.5	mg/kg dry wt.	
	Benzo(b)fluoranthene	Blank	<0.5	mg/kg dry wt.	
	Benzo(g,h,i)perylene	Blank	<0.5	mg/kg dry wt.	
	Chrysene	Blank	<0.5	mg/kg dry wt.	
	Dibenzo(a,h)anthracene	Blank	<0.5	mg/kg dry wt.	
	Fluoranthene	Blank	<0.5	mg/kg dry wt.	
	Fluorene	Blank	<0.5	mg/kg dry wt.	
	Indeno(1,2,3-cd)pyrene	Blank	<0.5	mg/kg dry wt.	
	2-Methylnaphthalene	Blank	<0.5	mg/kg dry wt.	
	Phenanthrene	Blank	<0.5	mg/kg dry wt.	
	Pyrene	Blank	<0.5	mg/kg dry wt.	
	Benzo(k)fluoranthene	Blank	<0.5	mg/kg dry wt.	
C9-C18 Aliphatics	Blank	<18.1	mg/kg dry wt.		
C19-C36 Aliphatics	Blank	7.0	mg/kg dry wt.		
C11-C22 Aromatics	Blank	<10.2	mg/kg dry wt.		
LFBLANK-16429	Naphthalene	Lab Fort Blank Amt.	2.5	mg/kg dry wt.	
		Lab Fort Blk. Found	1.8	mg/kg dry wt.	
		Lab Fort Blk. % Rec.	70.8	%	40-140
	Acenaphthene	Lab Fort Blank Amt.	2.5	mg/kg dry wt.	
		Lab Fort Blk. Found	2.1	mg/kg dry wt.	
		Lab Fort Blk. % Rec.	84.8	%	40-140
	Anthracene	Lab Fort Blank Amt.	2.5	mg/kg dry wt.	



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 6/15/01 Lims Bat #: LIMS-56155 Page 2 of 4

QC Batch Number: GC/FID-5248

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-16429	Anthracene	Lab Fort Blk. Found	2.5	mg/kg dry wt.	
		Lab Fort Blk. % Rec.	101.6	%	40-140
	Chrysene	Lab Fort Blank Amt.	2.5	mg/kg dry wt.	
		Lab Fort Blk. Found	2.4	mg/kg dry wt.	
	Pyrene	Lab Fort Blk. % Rec.	97.2	%	40-140
		Lab Fort Blank Amt.	2.5	mg/kg dry wt.	
Lab Fort Blk. Found		2.5	mg/kg dry wt.		
		Lab Fort Blk. % Rec.	98.4	%	40-140



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 6/15/01

Lims Bat #: LIMS-58155

Page 3 of 4

NOTES:

QC Batch No. : GC/FID-5248
Sample ID : 01B15514
Analysis : Chlorooctadecane

SURROGATE CONCENTRATION BELOW DETECTION LIMIT DUE TO DILUTION REQUIRED
FOR SAMPLE ANALYSIS.

QC Batch No. : GC/FID-5248
Sample ID : 01B15514
Analysis : Terphenyl

SURROGATE CONCENTRATION BELOW DETECTION LIMIT DUE TO DILUTION REQUIRED
FOR SAMPLE ANALYSIS.



(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01028

DA

LAMS-56155

Client Name: Pennoni Associates Inc Telephone: 603 226 1950 603 # 56279
 Atn: Jeff McCullough Batch #: _____ Analysis Required
 Address: Le Concord Center, Suite 434
10 Ferry St. Unit 6 03301 Project #: DOMH 0101.06
 Site Location: Medfield State Hospital Client P.O. #: DOMH 0101.06
 Sampled By: Philip LeMoreaux Fax #: 603 226 3235

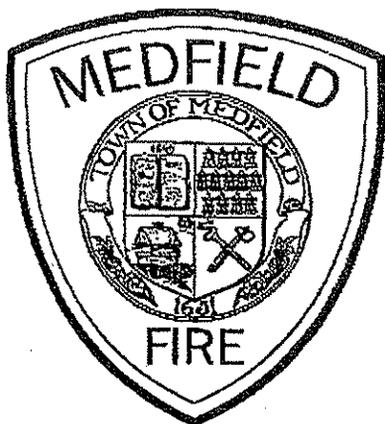
Call Results: Yes No _____
 Fax Results: Yes No _____

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED		Grab	MATRIX						Preservative (Use Code)	Container (Use Code)	EPI	
			Date	Time		WASTE WATER	GROUND WATER	DKG WATER	Soil	Air	Other				
T-2W	Tank - 2 West End	01B15113	6/1/01	1040	X			X					ZV		
T-3E	Tank - 3 East	15514 15720	6/1/01	1415	X			X					ZV		
T-3W	Tank - 3 West	15515 15721	6/1/01	1445	X			X					ZV		

CONTAINER CODE: _____ PRESERVATIVE CODE: Methano
 P: PLASTIC (____ Size) V = 40 ml vial G = Glass (____ size) A = 1000 ml Amber O = Other _____
 I = ICED N = HNO₃ H = HCl S = NaOH T = Na₂S₂O₃ O = OTHER _____

Reinquired by: (Signature) Philip LeMoreaux Date Time 6/1/01 17:30
 Date Time 6/1/01 17:30
 Turnaround Requested: _____ 24-Hour _____ 48-Hour _____ Normal _____
 Other 6/6/01 Date Required _____

Remarks/Comments: Please call Fran results ASAP.
10/10 notified client (PHI) that QC on EPI tests did not
pass. H₂O SAL OK - Env I 12/12



MEDFIELD FIRE DEPARTMENT

114 North Street
Medfield, Massachusetts 02052
Business Phone: (508) 359-2323
Fax Phone: (508) 359-2212

Total Pages Including Cover Page: 2 Date: 11/4/2003

Please Deliver To: Jason Fiero

Company Name: Type Name of Company here

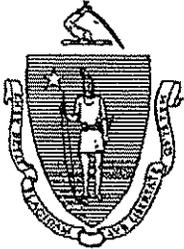
**Address: 25 Stuart Street
Boston, MA 02116-4782**

From: Lt. Richard M. Rogers

If there is a problem with this fax, Please call (508) 359-2323

**Comments: Copy of removal permit for Medfield State Hospital.
Report fee of \$20.00 due.**

Fax To: (617) 426-7992



The Commonwealth of Massachusetts

Executive Office of Public Safety

Department of Fire Services - Office of the State Fire Marshal

P.O. Box 1025, State Road, Stow, MA 01775



Date: May 31 2001
C. 82 S.40 M.G.L.

APPLICATION FOR PERMIT

DIG SAFE NUMBER
START DATE: _____

To: Head of Fire Department: Medfield Fire Dept
City/Town

In accordance with the provisions of Chapter 148, M.G.L. as provided in Section 10A application is hereby made by:

Name: CYN ENVIRONMENTAL
(Full name of person, firm or corporation)

Address: 101 Tosca Dr Houghton MA
(Street or P.O. Box) (City/Town) (State) (Zip Code)

For Permission to: Clean & Slurry fill tank # 2 & 3 (30, thousands)
State clearly the purpose for which the permit is requested:

Location: 45 Hospital Rd

Name of competent operator if applicable: Thomas McLaughlin Certificate of Competency #: _____

Date Issued { X } ~~DATE REJECTED~~: 5/31/01 By: William A. Kingsbury

Date of Expiration: N/A Fee Paid Fee Due { } Amount: 20.00

Applicant Signature: [Signature] Fire Department Number: 21175
(If Applicable)



The Commonwealth of Massachusetts

Executive Office of Public Safety

Department of Fire Services - Office of the State Fire Marshal

P.O. Box 1025, State Road, Stow, MA 01775



Date: 5/31/01
C. 82 S.40 M.G.L.

PERMIT

DIG SAFE NUMBER
START DATE: _____

In accordance with the provisions of Chapter 148, M.G.L. as provided in Section 10A this permit is granted to:

Name: Cyn Environmental
(Full name of person, firm or corporation)

For Permission to: clean & slurry fill tanks #'s 2&3 (2 30,000gal. tanks)
State clearly the purpose for which the permit is granted:

Restrictions: _____

Location: 45 Hospital Rd. Power Plant, Medfield State Hospital

Fee Paid: \$20.00 This Permit will Expire On: N/A

Signature and Title of Official Granting Permit: [Signature]
William A. Kingsbury, Fire Chief

⇒(THIS PERMIT MUST BE CONSPICUOUSLY POSTED UPON THE PREMISES.) ⇐