



CONSULTING ENGINEERS & LAND SURVEYORS
WWW.DUCHARMEWHEELER.COM

File: 3775-E

February 24, 2004

Mr. Robert Adler
Department of Environmental Protection
627 Main Street
Worcester, MA 01608

**RE: Indoor Air Sampling Results
Former Esquire Cleaners Property
211 West Main Street, Ayer, MA
RTN 2-14537**

Dear Mr. Adler:

Enclosed for your review are the results of indoor air sampling and analysis conducted at the Former Esquire Cleaners site located at 211 West Main Street, Ayer, Massachusetts, Release Tracking Number (RTN) 2-14537.

The building located at the 211 West Main Street property is currently used as a video rental store. The building is a single story structure with a partial basement with a concrete floor. Air samples were collected in the basement and the first floor using laboratory supplied Summa air canisters equipped with 8-hour regulators on February 20, 2004. The samples were submitted to Con-Test Analytical Laboratory of East Longmeadow, Massachusetts for analysis of Volatile Organic Compounds (VOC) using method TO-14. The results indicated the presence of tetrachloroethene, toluene, and dichlorodifluoromethane in both samples. Laboratory data sheets are provided as an attachment to this letter.

Ducharme & Wheeler authorized the O'Reilly, Talbot & Okun (OTO) of Westborough, Massachusetts to evaluate potential exposures at the 211 West Main Street property. Using a worst-case scenario for a full-time worker at the video store, OTO concluded that an imminent hazard did not exist for the conditions at the property. The full text of the OTO report is provided as an attachment to this letter.

Based on these results, Ducharme & Wheeler will collect additional air samples in the building at 211 West Main Street to evaluate seasonal variations and will re-evaluate the scoring of the numerical ranking submitted to the MA DEP on January 21, 2004.

NANTUCKET OFFICE
5 WINDY WAY, P.O. Box 937
NANTUCKET, MA 02554
PHONE: 508-228-0240
FAX: 508-228-9856

MAIN OFFICE
1092 MAIN STREET, P.O. Box 428
BOLTON, MA 01740
PHONE: 978-779-6091
FAX: 978-779-0260


MARTHA'S VINEYARD OFFICE
P.O. Box 1912
VINEYARD HAVEN, MA 02568
PHONE: 508-693-0669

If you have any questions, or require further information, please contact either of the undersigned at (978) 779-6091.

Very truly yours,

DUCHARME & WHEELER, INC.


Richard J. Cushing
Senior Project Manager


Philip J. Wheeler, P.E.
Principal

ATTACHMENTS

Analytical Data Sheets

OTO Memorandum addressing indoor air conditions at 211 West Main Street, Ayer, Massachusetts

Cc: Stanley McNiff, LeMack RT

MEMORANDUM

24 West Main Street, Suite 205

Westborough, MA 01581

Tel 508 366 6409

Fax 508 366 9826

www.otocompanies.com

To: Rich Cushing, LSP, Ducharme & Wheeler, Inc.
 From: Debbie Listernick, O'Reilly, Talbot & Okun Associates, Inc. *ML*
 Date: February 23, 2004
 Subject: Indoor Air Evaluation
 LeMack Property
 Ayer, Massachusetts

As requested, OTO has evaluated whether the concentrations detected in the indoor air sample collected at the abovementioned site pose a potential volatilization risk to current occupants of the site building. The site building is currently used as a video store. The first floor of the store is generally an open space with no partitions. The building has a basement with a concrete floor and is not used by the video store for regular activities and storage. The site is the location of a former dry cleaning operation. A release at the site is being addressed under a Massachusetts Contingency Plan (MCP) as an Immediate Response Action (IRA).

Indoor Air Samples

Indoor air samples were collected in the site building on February 10, 2004. Samples were collected from the first floor (AS-1) and basement (AS-2) using SUMMA Canisters. The indoor air samples were analyzed for volatile organic compounds (VOCs) using EPA Method TO-14. The results indicated the presence of dichlorodifluoromethane (Freon 12), tetrachloroethylene (PCE), and toluene in each of the samples.

The samples were collected from the western side of the site building, where previously collected soil gas samples indicated the highest detected concentrations. Therefore, detected concentrations in the indoor air samples are likely to represent worst-case indoor air conditions and overestimate the actual concentrations present in the entire working space of the building.

The indoor air sample from the first floor was used to evaluate potential current inhalation risks to the video store workers, since no regular work activities are conducted in the basement. The detected compounds and concentrations in the first floor indoor air sample, and MA DEP indoor air background concentrations for the detected compounds are summarized in Table 1.

Table 1
Analytical Results for First Floor (AS-1) Indoor Air Sample

Detected Compounds	Detected Concentrations ($\mu\text{g}/\text{m}^3$)	MA DEP Background Indoor Air Level ($\mu\text{g}/\text{m}^3$) ¹
Dichlorodifluoromethane (Freon 12)	2.7	N/A
Tetrachloroethylene (PCE)	692	11
Toluene	2.4	29

¹ MA DEP, 2001.

N/A - Not Available.

As indicated in this table, there is no MA DEP background indoor air level for Freon 12 and the detected concentration of PCE exceeds the respective MA DEP background indoor air level. The detected concentration of toluene is below the respective MA DEP background indoor air level. Therefore, Freon 12 and PCE are considered to be constituents of concern (COCs) for this evaluation.



Inhalation Risk Calculations

This risk evaluation evaluates actual and likely exposures to workers in the video store considering a period of time of 5 years or less. The risk evaluation has considered two scenarios for exposures to the video store workers. The first scenario is considered to be the maximum, worst-case exposure and assumes that a full-time worker is present in the area of the highest indoor air concentration for 8 hours/day, 5 days/week for 48 weeks/year (236 days/year) for 5 years. The second scenario is considered to be the reasonable, more-likely exposure given the nature of the video store business and the likelihood that remedial actions will be completed at the site. The part-time worker scenario assumes that a worker is present in the area of the highest indoor air concentration for 4 hours/day, 5 days/week for 48 weeks/year (236 days/year) for 2 years.

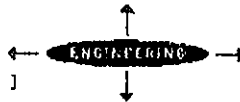
These exposure assumptions and the equations used to calculate average daily exposures (ADEs) for inhalation of vapors by a current full-time worker and part-time worker are presented in Tables 2A and 2B, respectively. ADEs were calculated for the full-time worker (Table 3A) and the part-time worker (Table 3B). Inhalation subchronic reference concentrations and unit risks for inhalation exposures from MA DEP (MA DEP, 2001 and 2002) and EPA sources (EPA, 1997, 2003 and 2004) were incorporated with ADEs to calculate noncarcinogenic hazard indices (HI) and cancer risks (Tables 3A and 3B).

For the worst-case scenario, full-time worker, the calculated HI was 0.3 and cancer risk was $6E-05$ (Table 3A). For the more-likely scenario, part-time worker, the calculated HI was 0.2 and cancer risk was $1E-05$ (Table 3B). These HIs are less than the MA DEP risk limit of 10 for determining a condition of No Imminent Hazard and of 1 for determining a condition of No Significant Risk. The cancer risk for the full-time worker exceeds the MA DEP risk limit of $1E-05$ for determining a condition of No Significant Risk, but is less than the MA DEP risk limit of $1E-04$ for reporting an Imminent Hazard. The cancer risk for the part-time worker does not exceed the MA DEP risk limit of $1E-05$ for determining a condition of No Significant Risk.

Conclusions

Indoor air risks were estimated for current site workers in the video store in the site building. Indoor risks were based on measured indoor air concentrations from the first floor, since the basement is not used by site employees. The first floor indoor air concentrations are likely to represent worst-case conditions, since the indoor air sample was collected in the location expected to have the highest concentrations in the working space of the building. In addition, it was assumed that these concentrations would be sustained during the entire exposure duration. This evaluation may be refined using additional indoor air data to represent indoor air concentrations throughout the entire work space.

Inhalation risk calculations indicate that significant noncarcinogenic effects would not be expected for either the full-time or the part-time worker. However, there is a potential for significant carcinogenic risks to the full-time worker under the assumptions of this evaluation and assuming that no remedial action is completed at the site over the length of the assumed exposure period.



References

- Massachusetts Department of Environmental Protection (MA DEP). 1992. *Documentation for the Risk Assessment Shortform Residential Scenario*. Policy #WSC/ORS-142-92. October 1992.
- Massachusetts Department of Environmental Protection (MA DEP). 1994. *Background Documentation for the Development of the MCP Numerical Standards*. April 1994.
- Massachusetts Department of Environmental Protection (MA DEP). 1995. *Guidance for Disposal Site Risk Characterization - In Support of the Massachusetts Contingency Plan*. July 1995.
- Massachusetts Department of Environmental Protection (MA DEP). 1996. *Draft Commercial/Industrial Shortform Exposure Scenarios*. December 1996.
- Massachusetts Department of Environmental Protection (MA DEP). 2001. *Development of MCP Risk-based Levels for Soil and Groundwater*. December 20, 2001.
- Massachusetts Department of Environmental Protection (MA DEP). 2002. *Proposed Changes to the MCP Numerical Standards GW-2 Standards*. Discussion of Significant Changes since the December 2001 Draft. Presentation to the Waste Site Cleanup Advisory Committee. April 24, 2002.
- Massachusetts Department of Environmental Protection (MA DEP). 2003. *Modeling the Vapor Intrusion Pathway: Revisions to the MCP GW-2 Groundwater Standards*. Handouts from the Licensed Site Professional Association/Society for Risk Analysis meeting. March 4, 2003.
- United States Environmental Protection Agency (EPA). 1997. *Health Effects Assessment Summary Tables, 10/1997 - Update*. EPA 540/R-97-036, July 1997.
- United States Environmental Protection Agency (EPA). 2003. *EPA Region III Risk-based Concentration Table*. April 2003.
- United States Environmental Protection Agency (EPA). 2004. *Integrated Risk Information System*. Office of Health and Environmental Assessment. On-line database. February 2004.

O'Reilly, Talbot & Okun

[A S S O C I A T E S]



TABLES



Table 2A
Exposure Assumptions for a Full-Time Indoor Worker - Inhalation of Vapors

VARIABLE	ASSUMPTIONS	NOTES
Receptor	Adult worker, age 18 to 45	1
Duration of exposure	8 hours/day 240 days/year 5 years	2
Averaging period	5 years (noncarcinogenic effects) 70 years (carcinogenic effects)	3
Relative Absorption Factor	compound-specific (unitless)	4
Exposure Point Concentration (EPC)	measured (ug/m ³)	5
<p style="text-align: center;">Noncarcinogenic effects</p> <p>Chronic Average Daily Exposure (ug/m³) = EPC (ug/m³) x hours exposed/day x 1 day/24 hours x days exposed/year x 1 year/365 days x years exposed/averaging period x RAF</p> <p style="text-align: center;">= EPC (ug/m³) x Exposure Factor x RAF</p> <p>Exposure Factor = 0.22 (unitless)</p> <p style="text-align: center;">Carcinogenic effects</p> <p>Lifetime Average Daily Exposure (ug/m³) = EPC (ug/m³) x hours exposed/day x 1 day/24 hours x days exposed/year x 1 year/365 days x years exposed/averaging period x RAF</p> <p style="text-align: center;">= EPC (ug/m³) x Exposure Factor x RAF</p> <p>Exposure Factor = 0.016 (unitless)</p>		
NOTES		
<p>1. The receptor is a worker in the current video store.</p> <p>2. The duration of exposure is 8 hours/day, 5 days/week, 48 weeks/year (52 weeks/year minus 2 weeks for vacations and 2 weeks for holidays, sickness, personal time, etc.) or 240 days/year for a period of 5 years.</p> <p>3. The averaging period is the period of exposure for noncarcinogenic effects, and a lifetime for carcinogenic effects.</p> <p>4. Compound-specific RAFs for inhalation were not available. Therefore, the RAFs were assumed to be 1.</p> <p>5. Exposure point concentrations were based on measured indoor air concentrations.</p>		

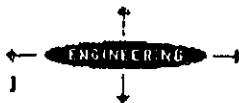


Table 2B
Exposure Assumptions for a Part-time Indoor Worker - Inhalation of Vapors

VARIABLE	ASSUMPTIONS	NOTES
Receptor	Adult worker, age 18 to 45	1
Duration of exposure	4 hours/day 240 days/year 2 years	2
Averaging period	2 years (noncarcinogenic effects) 70 years (carcinogenic effects)	3
Relative Absorption Factor	compound-specific (unitless)	4
Exposure Point Concentration (EPC)	measured (ug/m ³)	5
<p align="center">Noncarcinogenic effects</p> <p>Chronic Average Daily Exposure (ug/m³) = EPC (ug/m³) × hours exposed/day × 1 day/24 hours × days exposed/year × 1 year/365 days × years exposed/averaging period × RAF</p> <p align="center">= EPC (ug/m³) × Exposure Factor × RAF</p> <p align="center">Exposure Factor = 0.11 (unitless)</p> <p align="center">Carcinogenic effects</p> <p>Lifetime Average Daily Exposure (ug/m³) = EPC (ug/m³) × hours exposed/day × 1 day/24 hours × days exposed/year × 1 year/365 days × years exposed/averaging period × RAF</p> <p align="center">= EPC (ug/m³) × Exposure Factor × RAF</p> <p align="center">Exposure Factor = 0.003 (unitless)</p>		
NOTES		
<p>1. The receptor is a worker in the current video store.</p> <p>2. The duration of exposure is 4 hours/day, 5 days/week, 48 weeks/year (52 weeks/year minus 2 weeks for vacations and 2 weeks for holidays, sickness, personal time, etc.) or 240 days/year for a period of 2 years.</p> <p>3. The averaging period is the period of exposure for noncarcinogenic effects, and a lifetime for carcinogenic effects.</p> <p>4. Compound-specific RAFs for inhalation were not available. Therefore, the RAFs were assumed to be 1.</p> <p>5. Exposure point concentrations were based on measured indoor air concentrations.</p>		

TABLE 3A
CALCULATION OF RISK ESTIMATES
FULL-TIME INDOOR WORKER - INHALATION OF VAPORS - SUBCHRONIC EXPOSURE
Based on Measured Indoor Air Exposure Point Concentration

AS-1 First Floor

Noncarcinogenic Risks

Compound	Measured EPC ($\mu\text{g}/\text{m}^3$)	Exposure Factor (unitless)	RAF (inhalation)	ADE ($\mu\text{g}/\text{m}^3$)	Subchronic RfC ($\mu\text{g}/\text{m}^3$)	Hazard Index (unitless)
VOCs						
Dichlorodifluoromethane	27	0.22	1.00	5.8E-01	2.0E+03	3E-04
Tetrachloroethylene	692	0.22	1.00	1.5E+02	4.9E+02	3E-01
					Total:	3E-01

Carcinogenic Risks

Compound	Measured EPC ($\mu\text{g}/\text{m}^3$)	Exposure Factor (unitless)	RAF (inhalation)	LADE ($\mu\text{g}/\text{m}^3$)	Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	Cancer Risk (unitless)
VOCs						
Tetrachloroethylene	692	0.016	1.00	1.1E+01	5.7E-06	6E-05
					Total:	6E-05

Notes:

1. EPC is the Exposure Point Concentration.
2. RAF is the Relative Absorption Factor; compound- and route-specific if available.
3. ADE is the Average Daily Exposure of each compound received over the exposure.
4. RfC is the Reference Concentration.
5. LADE is the Lifetime Average Daily Exposure of each compound.

TABLE 1B
CALCULATION OF RISK ESTIMATES
PART-TIME INDOOR WORKER - INHALATION OF VAPORS - SUBCHRONIC EXPOSURE
Based on Measured Indoor Air Exposure Point Concentrations

AS-1 First Floor
Noncarcinogenic Risks

Compound	Measured EPC (ug/m ³)	Exposure Factor (unitless)	RAF (inhalation)	ADE (ug/m ³)	Subchronic R/C (ug/m ³)	Hazard Index (unitless)
VOCs						
Dichlorodifluoromethane	2.7	0.11	1.00	3.0E-01	2.0E+03	1E-04
Tetrachloroethylene	692	0.11	1.00	7.6E+01	4.9E+02	2E-01
					Total:	2E-01

Carcinogenic Risks

Compound	Measured EPC (ug/m ³)	Exposure Factor (unitless)	RAF (inhalation)	LADE (ug/m ³)	Unit Risk (ug/m ³) ⁻¹	Cancer Risk (unitless)
VOCs						
Tetrachloroethylene	692	0.003	1.00	2.1E+00	5.7E-06	1E-05
					Total:	1E-05

Notes:

1. EPC is the Exposure Point Concentration.
2. RAF is the Relative Absorption Factor; compound- and route-specific if available.
3. ADE is the Average Daily Exposure of each compound received over the exposure.
4. R/C is the Reference Concentration.
5. LADE is the Lifetime Average Daily Exposure of each compound.



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

REPORT DATE 2/16/2004

DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740
ATTN: JENNIFER ROBERGE

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-76886

JOB NUMBER: 3775-E

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

PROJECT LOCATION: LE MACK

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
AS-1	04B03704	AIR	1ST FLOOR	to-14 ppbv
AS-1	04B03704	AIR	1ST FLOOR	to-14 ug/m3
AS-2	04B03705	AIR	BASEMENT	to-14 ppbv
AS-2	04B03705	AIR	BASEMENT	to-14 ug/m3

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

AIHA 100033	AIHA ELLAP (LEAD) 100033	FLORIDA NELAP E87889
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

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 2/17/04
SIGNATURE DATE

Tod Kopycinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director

JENNIFER ROBERGE
 DUCHARME & WHEELER, INC.
 PO BOX 427
 BOLTON, MA 01740

2/16/2004
 Page 1 of 9

Purchase Order No.:

Project Location: LE MACK
 Date Received: 2/12/2004
 Field Sample #: AS-1

LIMS-BAT #: LIMS-76886
 Job Number: 3775-E

Sample ID : 04B03704

Sampled : 2/10/2004

1ST FLOOR

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
Benzene	PPBv	ND	02/13/04	PRM	0.5			
Bromomethane	PPBv	ND	02/13/04	PRM	0.5			
Carbon Tetrachloride	PPBv	ND	02/13/04	PRM	0.5			
Chlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
Chloroethane	PPBv	ND	02/13/04	PRM	0.5			
Chloroform	PPBv	ND	02/13/04	PRM	0.5			
Chloromethane	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dibromoethane	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dichlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
1,3-Dichlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
1,4-Dichlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
Dichlorodifluoromethane	PPBv	0.6	02/13/04	PRM	0.5			
1,1-Dichloroethane	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dichloroethane	PPBv	ND	02/13/04	PRM	0.5			
1,1-Dichloroethylene	PPBv	ND	02/13/04	PRM	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dichloropropane	PPBv	ND	02/13/04	PRM	0.5			
cis-1,3-Dichloropropene	PPBv	ND	02/13/04	PRM	0.5			
trans-1,3-Dichloropropene	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/13/04	PRM	0.5			
Ethylbenzene	PPBv	ND	02/13/04	PRM	0.5			
Hexachlorobutadiene	PPBv	ND	02/13/04	PRM	0.5			
Methylene Chloride	PPBv	ND	02/13/04	PRM	0.5			
Styrene	PPBv	ND	02/13/04	PRM	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	02/13/04	PRM	0.5			
Tetrachloroethylene	PPBv	102.	02/13/04	PRM	0.5			
Toluene	PPBv	0.6	02/13/04	PRM	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
1,1,1-Trichloroethane	PPBv	ND	02/13/04	PRM	0.5			
1,1,2-Trichloroethane	PPBv	ND	02/13/04	PRM	0.5			

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



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

JENNIFER ROBERGE
DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740

2/16/2004
Page 2 of 9

Purchase Order No.:

Project Location: LE MACK
Date Received: 2/12/2004
Field Sample #: AS-1

LIMS-BAT #: LIMS-76886
Job Number: 3775-E

Sample ID: 04B03704

Sampled: 2/10/2004

1ST FLOOR

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo HI	P/F
Trichloroethylene	PPBv	ND	02/13/04	PRM	0.5		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/13/04	PRM	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/13/04	PRM	0.5		
1,2,4-Trimethylbenzene	PPBv	ND	02/13/04	PRM	0.5		
1,3,5-Trimethylbenzene	PPBv	ND	02/13/04	PRM	0.5		
Vinyl Chloride	PPBv	ND	02/13/04	PRM	0.5		
m/p-Xylene	PPBv	ND	02/13/04	PRM	0.5		
o-Xylene	PPBv	ND	02/13/04	PRM	0.5		

Analytical Method:

EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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



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

JENNIFER ROBERGE
DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740

2/16/2004
Page 3 of 9

Purchase Order No.:

Project Location: LE MACK
Date Received: 2/12/2004
Field Sample #: AS-2

LIMS-BAT #: LIMS-76886
Job Number: 3775-E

Sample ID : 04B03705

Sampled : 2/10/2004

BASEMENT

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
Benzene	PPBv	ND	02/13/04	PRM	0.5			
Bromomethane	PPBv	ND	02/13/04	PRM	0.5			
Carbon Tetrachloride	PPBv	ND	02/13/04	PRM	0.5			
Chlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
Chloroethane	PPBv	ND	02/13/04	PRM	0.5			
Chloroform	PPBv	ND	02/13/04	PRM	0.5			
Chloromethane	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dibromoethane	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dichlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
1,3-Dichlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
1,4-Dichlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
Dichlorodifluoromethane	PPBv	0.6	02/13/04	PRM	0.5			
1,1-Dichloroethane	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dichloroethane	PPBv	ND	02/13/04	PRM	0.5			
1,1-Dichloroethylene	PPBv	ND	02/13/04	PRM	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dichloropropane	PPBv	ND	02/13/04	PRM	0.5			
cis-1,3-Dichloropropene	PPBv	ND	02/13/04	PRM	0.5			
trans-1,3-Dichloropropene	PPBv	ND	02/13/04	PRM	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/13/04	PRM	0.5			
Ethylbenzene	PPBv	ND	02/13/04	PRM	0.5			
Hexachlorobutadiene	PPBv	ND	02/13/04	PRM	0.5			
Methylene Chloride	PPBv	ND	02/13/04	PRM	0.5			
Styrene	PPBv	ND	02/13/04	PRM	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	02/13/04	PRM	0.5			
Tetrachloroethylene	PPBv	714.	02/13/04	PRM	0.5			
Toluene	PPBv	0.5	02/13/04	PRM	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	02/13/04	PRM	0.5			
1,1,1-Trichloroethane	PPBv	ND	02/13/04	PRM	0.5			
1,1,2-Trichloroethane	PPBv	ND	02/13/04	PRM	0.5			

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



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

JENNIFER ROBERGE
DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740

2/16/2004
Page 4 of 9

Purchase Order No.:

Project Location: LE MACK
Date Received: 2/12/2004
Field Sample #: AS-2

LIMS-BAT #: LIMS-76886
Job Number: 3775-E

Sample ID : 04B03705

Sampled : 2/10/2004

BASEMENT

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	PPBv	0.8	02/13/04	PRM	0.5		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/13/04	PRM	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/13/04	PRM	0.5		
1,2,4-Trimethylbenzene	PPBv	ND	02/13/04	PRM	0.5		
1,3,5-Trimethylbenzene	PPBv	ND	02/13/04	PRM	0.5		
Vinyl Chloride	PPBv	ND	02/13/04	PRM	0.5		
m/p-Xylene	PPBv	ND	02/13/04	PRM	0.5		
o-Xylene	PPBv	ND	02/13/04	PRM	0.5		

Analytical Method:

EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

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

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



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

JENNIFER ROBERGE
DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740

Purchase Order No.:

2/16/2004

Page 5 of 9

Project Location: LE MACK
Date Received: 2/12/2004
Field Sample #: AS-1

LIMS-BAT #: LIMS-76886
Job Number: 3775-E

Sample ID: 04B03704

Sampled: 2/10/2004

1ST FLOOR

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
Benzene	ug/m3	ND	02/13/04	PRM	1.6			
Bromomethane	ug/m3	ND	02/13/04	PRM	1.9			
Carbon Tetrachloride	ug/m3	ND	02/13/04	PRM	3.1			
Chlorobenzene	ug/m3	ND	02/13/04	PRM	2.3			
Chloroethane	ug/m3	ND	02/13/04	PRM	1.3			
Chloroform	ug/m3	ND	02/13/04	PRM	2.4			
Chloromethane	ug/m3	ND	02/13/04	PRM	1.0			
1,2-Dibromoethane	ug/m3	ND	02/13/04	PRM	3.8			
1,2-Dichlorobenzene	ug/m3	ND	02/13/04	PRM	3.0			
1,3-Dichlorobenzene	ug/m3	ND	02/13/04	PRM	3.0			
1,4-Dichlorobenzene	ug/m3	ND	02/13/04	PRM	3.0			
Dichlorodifluoromethane	ug/m3	2.7	02/13/04	PRM	2.5			
1,1-Dichloroethane	ug/m3	ND	02/13/04	PRM	2.0			
1,2-Dichloroethane	ug/m3	ND	02/13/04	PRM	2.0			
1,1-Dichloroethylene	ug/m3	ND	02/13/04	PRM	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	02/13/04	PRM	2.0			
1,2-Dichloropropane	ug/m3	ND	02/13/04	PRM	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	02/13/04	PRM	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	02/13/04	PRM	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/13/04	PRM	3.5			
Ethylbenzene	ug/m3	ND	02/13/04	PRM	2.2			
Hexachlorobutadiene	ug/m3	ND	02/13/04	PRM	5.3			
Methylene Chloride	ug/m3	ND	02/13/04	PRM	1.7			
Styrene	ug/m3	ND	02/13/04	PRM	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/13/04	PRM	3.4			
Tetrachloroethylene	ug/m3	692.	02/13/04	PRM	3.4			
Toluene	ug/m3	2.4	02/13/04	PRM	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	02/13/04	PRM	3.7			
1,1,1-Trichloroethane	ug/m3	ND	02/13/04	PRM	2.7			
1,1,2-Trichloroethane	ug/m3	ND	02/13/04	PRM	2.7			

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



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

JENNIFER ROBERGE
DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740

2/16/2004
Page 6 of 9

Purchase Order No.:

Project Location: LE MACK
Date Received: 2/12/2004
Field Sample #: AS-1

LIMS-BAT #: LIMS-76886
Job Number: 3775-E

Sample ID: 04B03704

Sampled: 2/10/2004

1ST FLOOR

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	ug/m3	ND	02/13/04	PRM	2.7			
Trichlorofluoromethane	ug/m3	ND	02/13/04	PRM	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/13/04	PRM	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	02/13/04	PRM	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	02/13/04	PRM	2.5			
Vinyl Chloride	ug/m3	ND	02/13/04	PRM	1.3			
m/p-Xylene	ug/m3	ND	02/13/04	PRM	2.2			
o-Xylene	ug/m3	ND	02/13/04	PRM	2.2			

Analytical Method:

EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

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

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



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

JENNIFER ROBERGE
DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740

2/16/2004
Page 7 of 9

Purchase Order No.:

Project Location: LE MACK
Date Received: 2/12/2004
Field Sample #: AS-2

LIMS-BAT #: LIMS-76886
Job Number: 3775-E

Sample ID : 04B03705

Sampled : 2/10/2004

BASEMENT

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P / F
						Lo	Hi	
Benzene	ug/m3	ND	02/13/04	PRM	1.6			
Bromomethane	ug/m3	ND	02/13/04	PRM	1.9			
Carbon Tetrachloride	ug/m3	ND	02/13/04	PRM	3.1			
Chlorobenzene	ug/m3	ND	02/13/04	PRM	2.3			
Chloroethane	ug/m3	ND	02/13/04	PRM	1.3			
Chloroform	ug/m3	ND	02/13/04	PRM	2.4			
Chloromethane	ug/m3	ND	02/13/04	PRM	1.0			
1,2-Dibromoethane	ug/m3	ND	02/13/04	PRM	3.8			
1,2-Dichlorobenzene	ug/m3	ND	02/13/04	PRM	3.0			
1,3-Dichlorobenzene	ug/m3	ND	02/13/04	PRM	3.0			
1,4-Dichlorobenzene	ug/m3	ND	02/13/04	PRM	3.0			
Dichlorodifluoromethane	ug/m3	2.7	02/13/04	PRM	2.5			
1,1-Dichloroethane	ug/m3	ND	02/13/04	PRM	2.0			
1,2-Dichloroethane	ug/m3	ND	02/13/04	PRM	2.0			
1,1-Dichloroethylene	ug/m3	ND	02/13/04	PRM	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	02/13/04	PRM	2.0			
1,2-Dichloropropane	ug/m3	ND	02/13/04	PRM	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	02/13/04	PRM	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	02/13/04	PRM	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/13/04	PRM	3.5			
Ethylbenzene	ug/m3	ND	02/13/04	PRM	2.2			
Hexachlorobutadiene	ug/m3	ND	02/13/04	PRM	5.3			
Methylene Chloride	ug/m3	ND	02/13/04	PRM	1.7			
Styrene	ug/m3	ND	02/13/04	PRM	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/13/04	PRM	3.4			
Tetrachloroethylene	ug/m3	4840.	02/13/04	PRM	3.4			
Toluene	ug/m3	2.0	02/13/04	PRM	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	02/13/04	PRM	3.7			
1,1,1-Trichloroethane	ug/m3	ND	02/13/04	PRM	2.7			
1,1,2-Trichloroethane	ug/m3	ND	02/13/04	PRM	2.7			

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



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

JENNIFER ROBERGE
DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740

Purchase Order No.:

2/16/2004
Page 8 of 9

Project Location: LE MACK
Date Received: 2/12/2004
Field Sample #: AS-2

LIMS-BAT #: LIMS-76886
Job Number: 3775-E

Sample ID: 04B03705

Sampled: 2/10/2004

BASEMENT

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/F
Trichloroethylene	ug/m3	4.1	02/13/04	PRM	2.7		
Trichlorofluoromethane	ug/m3	ND	02/13/04	PRM	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/13/04	PRM	3.8		
1,2,4-Trimethylbenzene	ug/m3	ND	02/13/04	PRM	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/13/04	PRM	2.5		
Vinyl Chloride	ug/m3	ND	02/13/04	PRM	1.3		
m/p-Xylene	ug/m3	ND	02/13/04	PRM	2.2		
o-Xylene	ug/m3	ND	02/13/04	PRM	2.2		

Analytical Method:

EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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



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

JENNIFER ROBERGE
DUCHARME & WHEELER, INC.
PO BOX 427
BOLTON, MA 01740

2/16/2004
Page 9 of 9

Purchase Order No.:

Project Location: LE MACK
Date Received: 2/12/2004

LIMS-BAT #: LIMS-76886
Job Number: 3775-E

** END OF 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



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

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/16/2004

Lims Bat #: LIMS-76886

Page 1 of 2

QC Batch Number: BATCH-6337

Sample Id	Analysis	QC Analysis	Values	Units	Limits
04B03704	4-Bromofluorobenzene	Surrogate Recovery	94.0	%	70-130
04B03705	4-Bromofluorobenzene	Surrogate Recovery	94.4	%	70-130
BLANK-57630	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.4	ug/m3	
	1,2-Dichloroethane	Blank	<2.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.0	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Styrene	Blank	<2.1	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.7	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.8	ug/m3	
	Trichlorofluoromethane	Blank	<2.8	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<2.2	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,1-Dichloroethane	Blank	<2.0	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.7	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.0	ug/m3	
	Bromomethane	Blank	<1.9	ug/m3	
	Chloroethane	Blank	<1.3	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.7	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.4	ug/m3	
	Hexachlorobutadiene	Blank	<5.3	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.7	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.3	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	1,2-Dibromoethane	Blank	<3.8	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	



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

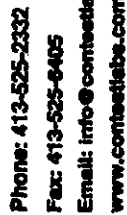
Report Date: 2/16/2004

Lims Bat #: LIMS-76886

Page 2 of 2

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



CHAIN OF CUSTODY RECORD
Lms # 76886

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

Page 1 of 1

Telephone: (978) 779-6091
Project # 3775-E
Client PO #
DATA DELIVERY (check one):
☐ FAX ☐ EMAIL ☒ WEBSITE CLIENT
Fax #: _____
Email: _____
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY

Proposal Provided? (For Billing purposes)

☐ yes _____ proposal date _____

[illegible]

Relinquished by: (signature)

Date/Time: _____

10

001 110226-

[Signature]

12-04

[Signature]

13-04
374

Received by: *[Signature]*

Date/Time: _____

Detection Limit Requirements	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Regulations?

100

Data Enhancement Project? ☐ Y ☐ N

(MA MCP sites only)

Special Requirements or DI's:

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

Permanezca del equipo de trabajo

Matrix Code:

GW = groundwater

— 1994 —

www.wastewater

A = air

Page 1 of 2

DIKOS/PROS = 5

 $\alpha_{\text{Bjerrum}} = 75$ [illegible]

$y = y$ $pool = 1$

2004-11

7.3.1

N = Methanol

N = NITRIC ACID

S = Sulfuric Acid

B = Sodium bisulfate

ANALYSIS REQUESTED

Comments:

Con-Test Laboratory is the ONLY Independent laboratory in all of New England with both prestigious AIHA and NELAP Certifications!