

**STL Buffalo**

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ANALYTICAL REPORT

Job#: A06-6259

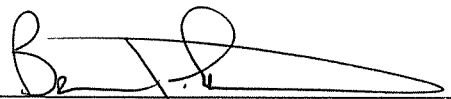
STL Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Task: NYSDEC Spills - Bengart & Memel Site: 915115

Eugene Melnyk  
NYSDEC - Region 9  
270 Michigan Ave  
Buffalo, NY 14203

STL Buffalo



Brian J. Fischer  
Project Manager

06/19/2006

## STL Buffalo Current Certifications

As of 4/10//2006

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>AFCEE</b>	AFCEE	
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP CWA, RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA, ASP	10026
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>Tennessee</b>	SDWA	02970
<b>USACE</b>	USACE	
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>USDOE</b>	Department of Energy	DOECAP-STB
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA, RCRA	C1677
<b>West Virginia</b>	CWA, RCRA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A6625901	BUILDING SUMP	SOIL	05/31/2006	13:05	06/02/2006	15:55
A6625902	LOT EDGE AT BUILDING	SOIL	05/31/2006	13:20	06/02/2006	15:55
A6625903	LOT EDGE AT MW	SOIL	05/31/2006	13:30	06/02/2006	15:55
A6625906	LOT EDGE AT SW CORN.	SOIL	05/31/2006	14:10	06/02/2006	15:55
A6625904	NORTH FENCE AT GATE	SOIL	05/31/2006	13:50	06/02/2006	15:55
A6625905	SURFACE SOIL E.CONT.	SOIL	05/31/2006	14:00	06/02/2006	15:55

## METHODS SUMMARY

Job#: A06-6259STL Project#: NY5A946109Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
NYSDEC-SPILLS- 8082 - POLYCHLORINATED BIPHENYLS-S	SW8463 8082
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-CONFORMANCE SUMMARY

Job#: A06-6259STL Project#: NY5A946109Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACTGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-6259

Sample Cooler(s) were received at the following temperature(s); 7.2 °C

Samples were received at a temperature of 7.2° C. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, there is no impact on data usability.

GC Extractable Data

For method 8082, many samples required dilution prior to analysis due to the heavy matrix present or high concentration of target analytes. The surrogate and spike recoveries are diluted out of all sample extracts with a dilution factor of 10X or greater.

Metals Data

The LCS (Lot D051-540) recoveries for Aluminum, Antimony and Iron fell outside of the quality control limits, however, the LCS values were within the manufacturer's recommended acceptance limits. No corrective action was taken.

The analyte Zinc was detected in a bracketing CCB at a level above the project established reporting limit. However, all samples had levels of Zinc greater than ten times that of the Method Blank value, therefore, no corrective action was necessary.

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The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."



\_\_\_\_\_  
Brian J. Fischer  
Project Manager

6-20-06

\_\_\_\_\_  
Date

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
BUILDING SUMP	A6625901	8082	100.00	008
LOT EDGE AT BUILDING	A6625902	8082	1000.00	008
LOT EDGE AT MW	A6625903	8082	200.00	008
NORTH FENCE AT GATE	A6625904	8082	20.00	008
SURFACE SOIL E.CONT.	A6625905	8082	20.00	008
LOT EDGE AT SW CORN.	A6625906	8082	100.00	008

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Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



## **DATA QUALIFIER PAGE**

*These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.*

### **ORGANIC DATA QUALIFIERS**

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- <sup>1</sup> Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### **INORGANIC DATA QUALIFIERS**

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.



Date: 06/19/2006

Time: 19:25:57

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC Spills - Bengart & Memel Site: 915115

9/15 Page: 1

Rept: AN1178

Sample ID: BUILDING SUMP

Lab Sample ID: A6625901

Date Collected: 05/31/2006

Time Collected: 13:05

Date Received: 06/02/2006

Project No: NY5A946109

Client No: L10190

Site No:

Parameter	Result	Flag	Detection	Units	Method	Date/Time		Analyst
			Limit			Analyzed		
NYSDEC-SPILLS - SOIL-SW8463 8082 - PCBs								
Aroclor 1016	ND		5000	UG/KG	8082	06/08/2006	18:47	MAN
Aroclor 1221	ND		5000	UG/KG	8082	06/08/2006	18:47	MAN
Aroclor 1232	ND		5000	UG/KG	8082	06/08/2006	18:47	MAN
Aroclor 1242	ND		5000	UG/KG	8082	06/08/2006	18:47	MAN
Aroclor 1248	ND		5000	UG/KG	8082	06/08/2006	18:47	MAN
Aroclor 1254	46000		5000	UG/KG	8082	06/08/2006	18:47	MAN
Aroclor 1260	45000		5000	UG/KG	8082	06/08/2006	18:47	MAN

Date: 06/19/2006

Time: 19:25:57

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC Spills - Bengart & Memel Site: 915115

10/15 Page: 2

Rept: AN1178

Sample ID: LOT EDGE AT BUILDING

Lab Sample ID: A6625902

Date Collected: 05/31/2006

Time Collected: 13:20

Date Received: 06/02/2006

Project No: NY5A946109

Client No: L10190

Site No:

Parameter	Result	Flag	Detection		Units	Method	Date/Time		Analyst
			Limit				Analyzed		
NYSDEC-SPILLS - SOIL-SW8463 8082 - PCBS									
Aroclor 1016	ND		18000		UG/KG	8082	06/08/2006	19:26	MAN
Aroclor 1221	ND		18000		UG/KG	8082	06/08/2006	19:26	MAN
Aroclor 1232	ND		18000		UG/KG	8082	06/08/2006	19:26	MAN
Aroclor 1242	ND		18000		UG/KG	8082	06/08/2006	19:26	MAN
Aroclor 1248	ND		18000		UG/KG	8082	06/08/2006	19:26	MAN
Aroclor 1254	38000		18000		UG/KG	8082	06/08/2006	19:26	MAN
Aroclor 1260	36000		18000		UG/KG	8082	06/08/2006	19:26	MAN

Date: 06/19/2006

Time: 19:25:57

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC Spills - Bengart & Memel Site: 915115

11/15 Page: 3

Rept: AN1178

Sample ID: LOT EDGE AT MW

Lab Sample ID: A6625903

Date Collected: 05/31/2006

Time Collected: 13:30

Date Received: 06/02/2006

Project No: NY5A946109

Client No: L10190

Site No:

Parameter	Result	Flag	Detection		Method	Date/Time		Analyst
			Limit	Units		Analyzed		
NYSDEC-SPILLS - SOIL-SW8463 8082 - PCBS								
Aroclor 1016	ND		3600	UG/KG	8082	06/08/2006	19:46	MAN
Aroclor 1221	ND		3600	UG/KG	8082	06/08/2006	19:46	MAN
Aroclor 1232	ND		3600	UG/KG	8082	06/08/2006	19:46	MAN
Aroclor 1242	ND		3600	UG/KG	8082	06/08/2006	19:46	MAN
Aroclor 1248	ND		3600	UG/KG	8082	06/08/2006	19:46	MAN
Aroclor 1254	ND		3600	UG/KG	8082	06/08/2006	19:46	MAN
Aroclor 1260	94000		3600	UG/KG	8082	06/08/2006	19:46	MAN

Date: 06/19/2006

Time: 19:25:57

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC Spills - Bengart & Memel Site: 915115

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Rept: AN1178

Sample ID: LOT EDGE AT SW CORN.

Date Received: 06/02/2006

Lab Sample ID: A6625906

Project No: NY5A946109

Date Collected: 05/31/2006

Client No: L10190

Time Collected: 14:10

Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time		Analyst
						Analyzed		
NYSDEC-SPILLS - SOIL-SW8463 8082 - PCBs								
Aroclor 1016	ND		1900	UG/KG	8082	06/08/2006	20:45	MAN
Aroclor 1221	ND		1900	UG/KG	8082	06/08/2006	20:45	MAN
Aroclor 1232	ND		1900	UG/KG	8082	06/08/2006	20:45	MAN
Aroclor 1242	ND		1900	UG/KG	8082	06/08/2006	20:45	MAN
Aroclor 1248	ND		1900	UG/KG	8082	06/08/2006	20:45	MAN
Aroclor 1254	21000		1900	UG/KG	8082	06/08/2006	20:45	MAN
Aroclor 1260	16000		1900	UG/KG	8082	06/08/2006	20:45	MAN

Date: 06/19/2006  
 Time: 19:25:57

NYSDEC  
 NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT  
 NYSDEC Spills - Bengart & Memel Site: 915115

13/15 Page: 5  
 Rept: AN1178

Sample ID: NORTH FENCE AT GATE  
 Lab Sample ID: A6625904  
 Date Collected: 05/31/2006  
 Time Collected: 13:50

Date Received: 06/02/2006  
 Project No: NY5A946109  
 Client No: L10190  
 Site No:

Parameter	Result	Flag	Detection		Method	Date/Time		Analyst
			Limit	Units		Analyzed		
NYSDEC-SPILLS - SOIL-SW8463 8082 - PCBs								
Aroclor 1016	ND		410	UG/KG	8082	06/08/2006	20:05	MAN
Aroclor 1221	ND		410	UG/KG	8082	06/08/2006	20:05	MAN
Aroclor 1232	ND		410	UG/KG	8082	06/08/2006	20:05	MAN
Aroclor 1242	ND		410	UG/KG	8082	06/08/2006	20:05	MAN
Aroclor 1248	ND		410	UG/KG	8082	06/08/2006	20:05	MAN
Aroclor 1254	3700		410	UG/KG	8082	06/08/2006	20:05	MAN
Aroclor 1260	12000		410	UG/KG	8082	06/08/2006	20:05	MAN
Metals Analysis								
Aluminum - Total	13600		12.4	MG/KG	6010	06/06/2006	05:01	TWS
Antimony - Total	ND		18.6	MG/KG	6010	06/06/2006	05:01	TWS
Arsenic - Total	8.0		2.5	MG/KG	6010	06/06/2006	05:01	TWS
Barium - Total	118		0.62	MG/KG	6010	06/06/2006	05:01	TWS
Beryllium - Total	1.1		0.25	MG/KG	6010	06/06/2006	05:01	TWS
Cadmium - Total	2.6		0.25	MG/KG	6010	06/06/2006	05:01	TWS
Calcium - Total	81700		61.8	MG/KG	6010	06/06/2006	05:01	TWS
Chromium - Total	97.8		0.62	MG/KG	6010	06/06/2006	05:01	TWS
Cobalt - Total	20.4		0.62	MG/KG	6010	06/06/2006	05:01	TWS
Copper - Total	1820		1.2	MG/KG	6010	06/06/2006	05:01	TWS
Iron - Total	36300		12.4	MG/KG	6010	06/06/2006	05:01	TWS
Lead - Total	309		1.2	MG/KG	6010	06/06/2006	05:01	TWS
Magnesium - Total	14900		24.7	MG/KG	6010	06/06/2006	05:01	TWS
Manganese - Total	1000		0.25	MG/KG	6010	06/06/2006	05:01	TWS
Mercury - Total	0.92		0.026	MG/KG	7471	06/06/2006	15:44	MM
Nickel - Total	338		0.62	MG/KG	6010	06/06/2006	05:01	TWS
Potassium - Total	2300		37.1	MG/KG	6010	06/06/2006	05:01	TWS
Selenium - Total	ND		4.9	MG/KG	6010	06/06/2006	05:01	TWS
Silver - Total	1.4		0.62	MG/KG	6010	06/06/2006	05:01	TWS
Sodium - Total	468		173	MG/KG	6010	06/06/2006	05:01	TWS
Thallium - Total	ND		7.4	MG/KG	6010	06/06/2006	05:01	TWS
Vanadium - Total	29.1		0.62	MG/KG	6010	06/06/2006	05:01	TWS
Zinc - Total	1100		1.2	MG/KG	6010	06/06/2006	05:01	TWS

Date: 06/19/2006

Time: 19:25:57

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC Spills - Bengart & Memel Site: 915115

14/15 Page: 6

Rept: AN1178

Sample ID: SURFACE SOIL E.CONT.

Lab Sample ID: A6625905

Date Collected: 05/31/2006

Time Collected: 14:00

Date Received: 06/02/2006

Project No: NY5A946109

Client No: L10190

Site No:

Parameter	Result	Flag	Detection		Method	Date/Time		Analyst
			Limit	Units		Analyzed		
NYSDEC-SPILLS - SOIL-SW8463 8082 - PCBs								
Aroclor 1016	ND		380	UG/KG	8082	06/08/2006	20:25	MAN
Aroclor 1221	ND		380	UG/KG	8082	06/08/2006	20:25	MAN
Aroclor 1232	ND		380	UG/KG	8082	06/08/2006	20:25	MAN
Aroclor 1242	ND		380	UG/KG	8082	06/08/2006	20:25	MAN
Aroclor 1248	ND		380	UG/KG	8082	06/08/2006	20:25	MAN
Aroclor 1254	5200		380	UG/KG	8082	06/08/2006	20:25	MAN
Aroclor 1260	11000		380	UG/KG	8082	06/08/2006	20:25	MAN

Chain of  
Custody Record

STL-4124 (0901)

Client: **NYSDEC REGION 9 DER** Project Manager: **GENE McElyea** Date: **5/31/06** Chain of Custody Number: **169271**

Address: **270 Michigan Ave.** Telephone Number (Area Code)/Fax Number: **766-851-7220** Lab Number: **1** of **1**

City: **BUFFALO** State: **NY** Zip Code: **14203-2999** Site Contact: **Dr. Seymour** Lab Contact: **B. Esch**

Project Name and Location (State): **BENJAMIN MEMEL 965115, NY** Carrier/Waiver Number: **2200305**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH				
BUILDING Sump	5/31/06	1305 hr		✓				✓								
LOT EDGE AT Building		1320 hr		✓				✓								
LOT EDGE AT MKT		1336 hr		✓				✓								
NORTH FENCE AT GATE		1350 hr		✓				✓								
SURFACE SOIL EAST Containment		1400 hr		✓				✓								
LOT EDGE AT SW CORNER		1410 hr		✓				✓								← single JAL for both Analyses.

Possible Hazard Identification: **PCBS > 50ppm**

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months \_\_\_\_\_

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other: **3-DAY T/A**

1. Relinquished By: **Dr. Seymour** Date: **6/01/06** Time: **15:30**

2. Relinquished By: **Dr. Seymour** Date: **6/01/06** Time: **15:55**

3. Relinquished By: **Dr. Seymour** Date: **6/02/06** Time: **15:30**

4. Relinquished By: **Dr. Seymour** Date: **6/20/06** Time: **15:55**

Comments: **PCBS 888**