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August 24, 2011

Mr. Jeffrey Lippert  
On-Scene Coordinator  
Emergency Response Branch  
United States Environmental Protection Agency Region V  
9311 Groh Road  
Grosse Ile, MI 48138

**Subject: Lyndon Street Drum Site Emergency Response  
Detroit, Wayne County, Michigan  
WESTON START Contract No.: EP-S5-06-04  
Technical Direction Document No.: S05-0001-1108-017  
Document Control No.: 1570-2A-APOW  
Work Order No: 20405.012.001.1570.00**

Dear Mr. Lippert:

The Weston Solutions, Inc. (WESTON<sup>®</sup>), Superfund Technical Assessment and Response Team (START) prepared this letter report in accordance with the requirements of Technical Direction Document (TDD) No. S05-0001-1108-017, which the United States Environmental Protection Agency (U.S. EPA) assigned to WESTON START. Under this TDD, on August 18, 2011, WESTON START was tasked to assist with an emergency response (ER) at the Lyndon Street Drum Site located at 8100 Lyndon Street in Detroit, Wayne County, Michigan (the Site). U.S. EPA tasked WESTON START to perform the following activities during the ER:

- Site reconnaissance
- Preliminary container count
- Container sampling
- Documentation of Site conditions and activities

This letter report summarizes the Site description and history; ER activities conducted on August 18, 2011; and the potential for imminent and substantial threats to the public health or welfare of the United States or the environment currently posed by the Site. **Attachment A** of this letter report includes figures of the Site. **Attachment B** provides photographic documentation of Site conditions and activities conducted during the ER. **Attachment C** provides tables summarizing the preliminary container count and laboratory analytical results for samples collected during the ER. **Attachment D** provides the laboratory analytical reports and data validation reports for samples collected during the ER.



Mr. Jeffrey Lippert  
U.S. EPA, Region V

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Lyndon Street Drum Site  
August 24, 2011

## **SITE DESCRIPTION AND HISTORY**

The Site is located at 8100 Lyndon Street in Detroit, Wayne County, Michigan (**Figure 1 in Attachment A**). The Site's meridian coordinates are 42° 23' 43.8" North latitude and 83° 9' 1.7" West longitude. The Site is located in a developed mixed-use area containing industrial, commercial, and residential properties. The Site is bordered to the north by an alley and residential properties beyond, to the east by Greenlawn Street and commercial/industrial properties beyond, to the south by Lyndon Street and industrial properties beyond, and to the west by Roselawn Street and vacant property beyond. No surface water bodies are located within 0.25 mile of the Site.

The Site consists of a 0.24-acre parcel in an urban area of Detroit, Michigan. The Site appears to be an abandoned chemical manufacturing facility of Riverside Organics, Inc. (according to the City of Detroit Law Department), and is no longer operational. The Site contains a one-story building occupying approximately 4,348 square feet and a small courtyard area behind the building. The building consists of four total buildings that are adjoined by three main areas (shown as Areas A, B, and C) including a chemical mixing area; an office area; and a drum storage area. The Dewitt Clinton Elementary School playground is less than 850 feet north of the Site (**Figure 2 in Attachment A**).

The Detroit Fire Department (DFD) responded to an odor complaint at the Site on August 18, 2011. Upon entering the building, DFD found hundreds of drums and other containers that appeared to be leaking. DFD telephoned the U.S. EPA and requested assistance with securing the Site and removing the drums and containers.

U.S. EPA met DFD at the Site on August 18, 2011, to conduct a Site walk-through. U.S. EPA observed hundreds of drums, tanks, compressed gas cylinders, and other miscellaneous containers throughout the Site in various states of deterioration. Many containers were unlabeled and unsecured. Multiple signs of leakage and spills from the containers were observed in the building, including puddles and pools of liquid waste on the floor.

Because of the potentially hazardous conditions observed during the initial Site walk-through, U.S. EPA mobilized the Emergency and Rapid Response Services (ERRS) contractor and WESTON START to the Site to conduct ER activities.

## **EMERGENCY RESPONSE ACTIVITIES**

ER activities were conducted on August 18, 2011. **Attachment B** provides a photographic log of Site conditions and activities conducted during the ER. U.S. EPA and the ERRS contractor conducted initial response activities at the Site to further assess Site conditions and determine immediate threats and most prudent course of action. Based on the presence of hundreds of containers containing potentially hazardous and unknown contents and the deteriorated and leaking conditions of many of the containers, the On-Scene Coordinator (OSC) determined that



Site access must be immediately restricted and leaking containers over-packed pending a time-critical removal action.

Before completing measures to restrict Site access, the OSC requested WESTON START to mobilize to the Site to conduct container sampling and document the potential presence of hazardous wastes. Before WESTON START arrived at the Site, the ERRS contractor conducted real-time air monitoring throughout the Site building using a MultiRAE Plus multi-gas monitor. Interior ambient air monitoring results did not exceed background levels.

WESTON START's Site observations, field screening and sampling activities, and sample analytical results are summarized below.

### **SITE OBSERVATIONS**

WESTON START performed an initial Site walk-through and conducted a preliminary container count (**Table 1 in Attachment C**) before conducting container sampling. Specific and general Site condition observations are summarized below.

- Site access was unrestricted.
- The roof of the building had collapsed in several areas, and some windows and walls were compromised, leaving drums and containers exposed to the elements.
- Adults and children were observed outside their homes near the Site.
- Residential properties are present within 150 to 200 feet of the Site building.
- Numerous containers and polyethylene (poly), steel, and fiber drums ranging in capacity from 5 to 55 gallons were scattered throughout the building.
- Numerous containers of less than 5 gallon were scattered throughout the building, including bottles that appeared to contain laboratory-grade chemicals.
- Many drums were rusted, deteriorating, and leaking.
- Water was present on the building floor, and drums labeled "Dangerous when wet and flammable" were observed near wet areas.
- Hand-written labels contradicted the printed labels on many containers.
- Chemicals in containers on shelves were leaking, and the shelving appeared unstable.
- Containers of both oxidizers and acids were present near each other.
- Container labels included, but were not limited to, the following:
  - Acetic anhydride (corrosive)
  - Cyclohexane (flammable)
  - Sodium hydroxide in oil (dangerous when wet)
  - Hydrogen peroxide (50 percent [%], oxidizer and corrosive)



- Naphthalene 98% (flammable solid and toxic)
- 2-Nitrotoluene (highly toxic and suspected cancer agent)
- Hydrazine hydrate (corrosive)
- Vitride reducing agent (dangerous when wet and flammable)
- Propionic acid 99.5% (corrosive)
- Styrene monomer (flammable)
- Anhydrous ammonia

## FIELD SCREENING AND SAMPLING ACTIVITIES

At the direction of the OSC, WESTON START screened and sampled selected drums based on label information and air screening results. WESTON START donned Level B personal protective equipment to collect representative samples from five of the drums, samples LD-WL01-081811 through LD-WL05-081811. The samples were collected using disposable glass drum thieves and glass sample jars. WESTON START submitted the five samples to Fibertec Analytical Services in Holt, Michigan, on August 19, 2011, for analysis for Toxicity Characteristic Leaching Procedure (TCLP) metals, TCLP volatile organic compounds (VOC), TCLP semivolatile organic compounds (SVOC), flashpoint, corrosivity (pH), total sulfide, and total cyanide. The samples were analyzed under analytical TDD No. S05-0001-1108-018.

## SAMPLE ANALYTICAL RESULTS

**Table 2** in **Attachment C** provides the sample analytical results summary table, and **Attachment D** provides the laboratory analytical reports and data validation reports. All sampling results were compared to the regulatory levels defined in Title 40 of the *Code of Federal Regulations* (40 CFR), Part 261. In some cases, reporting limits exceeded the 40 CFR Part 261 regulatory levels, indicating that concentrations exceeding the regulatory levels may be present but could not be quantified due to the nature of the samples.

Analytical results for the drum samples are summarized below.

### TCLP Results

- TCLP chromium was detected in sample LD-WL05-081811 at a concentration of 1.9 milligrams per liter (mg/L), which is below the 40 CFR Part 261 regulatory level.
- TCLP benzene was detected in sample LD-WL03-081811 at a concentration of 0.82 mg/L which is above the threshold of 0.5 mg/L provided in 40 CFR, Part 261, indicating the material associated with this sample is hazardous waste based on the toxicity characteristic.
- TCLP pyridine was detected in sample LD-WL03-081811 at a concentration of 5.0 mg/L, which equals the 40 CFR Part 261 regulatory level and indicates that the material associated with this sample is hazardous waste based on the toxicity characteristic.



### **Flammability Results**

- All samples except for LD-WL04-081811 displayed flashpoints below the 40 CFR Part 261 regulatory limit of 140 degrees Fahrenheit (°F), indicating that the materials associated with four of the five samples collected represent hazardous wastes for the ignitability characteristic.

### **Corrosivity Results**

- Samples LD-WL03-081811, LD-WL04-081811, and LD-WL05-081811 had pH results ranging from 0.26 to 1.78 standard units (SU). These concentrations are below the 40 CFR Part 261 regulatory limit of 2.0 SUs, indicating that the materials associated with these three samples represent hazardous wastes for the corrosivity characteristic.

Total cyanide was detected in three of the five samples at concentrations ranging from 26 to 9,000 mg/L or milligrams per kilogram (mg/kg), depending on whether the sample was analyzed as a liquid or oil. Other TCLP analytes and total sulfide were not detected in any of the samples.

### **THREATS TO HUMAN HEALTH AND THE ENVIRONMENT**

Factors to be considered in determining the appropriateness of a removal action at a Site are delineated in the National Oil and Hazardous Substances Pollution Contingency Plan at 40 CFR Part 300.415(b)(2). A summary of the factors applicable to this Site is presented below.

- **Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances, pollutants, or contaminants**

During the ER, WESTON START observed hundreds of containers in various states of deterioration, including containers that were leaking and lacking secondary containment. WESTON START collected five samples during the ER, and sampling results indicate that the materials associated with every sample collected represent hazardous wastes. Site access is unrestricted, and the structural integrity of the building is poor based on holes in the ceiling and walls observed during the ER.

Residences are located within 150 to 200 feet of the Site, and an elementary school is located within 850 feet of the Site. During the ER, adults and children were observed outside their homes near the Site. The close proximity of residents including children to the Site increases the likelihood of exposure in the event of trespassing. Trespassers and nearby residents could be exposed to hazardous wastes from direct contact, a release to the environment of hazardous wastes from leaking containers and from intentional releases, and airborne release of hazardous vapors and fumes if a fire occurs at the Site.

- **Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers that may pose a threat of release**



During the ER, WESTON START observed hundreds of containers in various states of deterioration, including containers that were leaking and lacking secondary containment. WESTON START collected five samples during the ER, and sampling results indicate that the materials associated with every sample collected represent hazardous wastes. Hand-written labels contradicted the printed labels on many containers, indicating that the contents of many of the containers remain unknown. Many drum labels indicated potentially hazardous materials, including acids, oxidizers, and flammable materials. Incompatible chemicals were stored near each other, and drums labeled "Dangerous when wet and flammable" were observed near wet areas on the building floor.

- **Weather conditions that may cause hazardous substances, pollutants, or contaminants to migrate or be released**

Site access is unrestricted, and the structural integrity of the building is poor based on holes in the roof and walls observed during the ER. Southeastern Michigan receives a substantial amount of rain in the spring and fall and several inches of snow on frequent occasions in the winter. Precipitation will continue to deteriorate the Site building and could cause further collapse and the infiltration of water. Infiltrating water could result in the migration of leaking container contents, allowing hazardous and potentially hazardous wastes to be released to the environment. Drums labeled "Dangerous when wet and flammable" were observed during the ER. Therefore, infiltrating water also increases the likelihood of a potentially dangerous situation resulting from materials that are dangerous when wet.

- **Threat of fire or explosion**

During the ER, WESTON START observed many containers labeled "Flammable." Four of the five samples collected by WESTON START during the ER indicate that the materials associated with these samples are hazardous wastes based on the flammability characteristic. Two of the four samples had flashpoints below room temperature (68 °F). Incompatible chemicals were stored near each other, and drums labeled "Dangerous when wet and flammable" were observed near wet areas on the building floor.

Site access is unrestricted, and a residential area is located within 150 to 200 feet of the Site, indicating a high likelihood for trespassing. The threat of fire or explosion is high because of (1) the flammable nature of the contents of many containers, (2) the ease at which materials could ignite because of low flashpoints, (3) the potential reaction between incompatible and water-reactive chemicals that are improperly stored, and (4) potential intentional or unintentional ignition caused by trespassers.



Mr. Jeffrey Lippert  
U.S. EPA, Region V

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Lyndon Street Drum Site  
August 24, 2011

- **The availability of other appropriate federal or state response mechanisms to respond to the release**

On August 18, 2011, DFD requested U.S. EPA assistance with securing the Site and removing drums and containers.

If you have any questions or comments regarding the report or require additional copies, please contact me at (248) 658-5015.

Sincerely,  
WESTON SOLUTIONS, INC.

A handwritten signature in black ink that reads "Alexandra Clark".

Alexandra Clark  
WESTON START Project Manager

Attachments:

- A – Figures
- B – Photographic Documentation
- C – Tables
- D – Laboratory Analytical Reports and Data Validation Reports

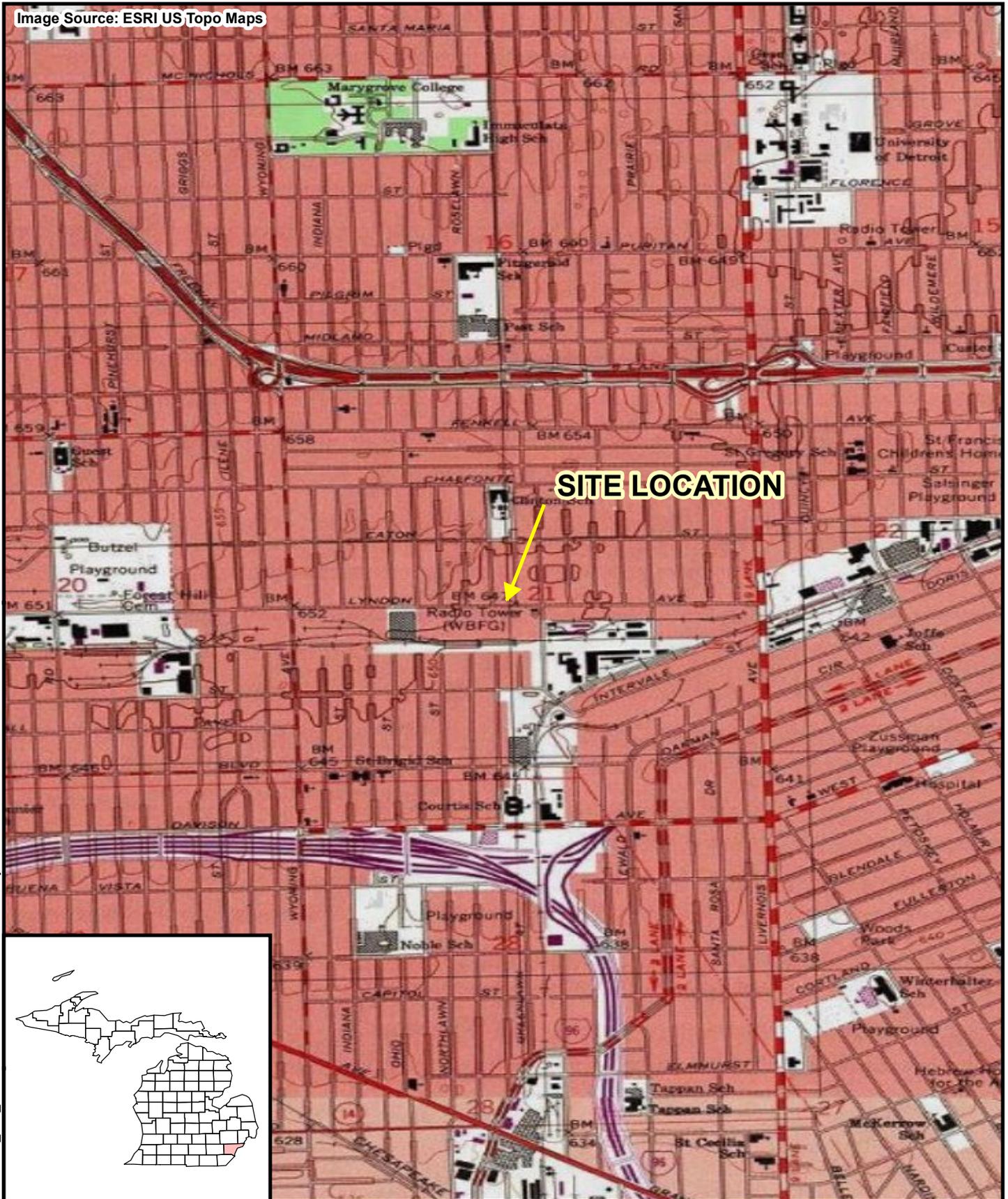
cc: WESTON START DCN file

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**ATTACHMENT A**  
**FIGURES**

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Image Source: ESRI US Topo Maps



**SITE LOCATION**

FILE: D:\Lyndon\_ST\_ER\mxd\F1\_Site\_Location.mxd 8/22/2011 1:02:43 PM wojdakon



**Legend**

0 2,000 Feet



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**U.S. EPA REGION V**

Contract No.: EP-S5-06-04  
TDD: S05-0001-1108-017  
DCN: 1570-2A-APOW

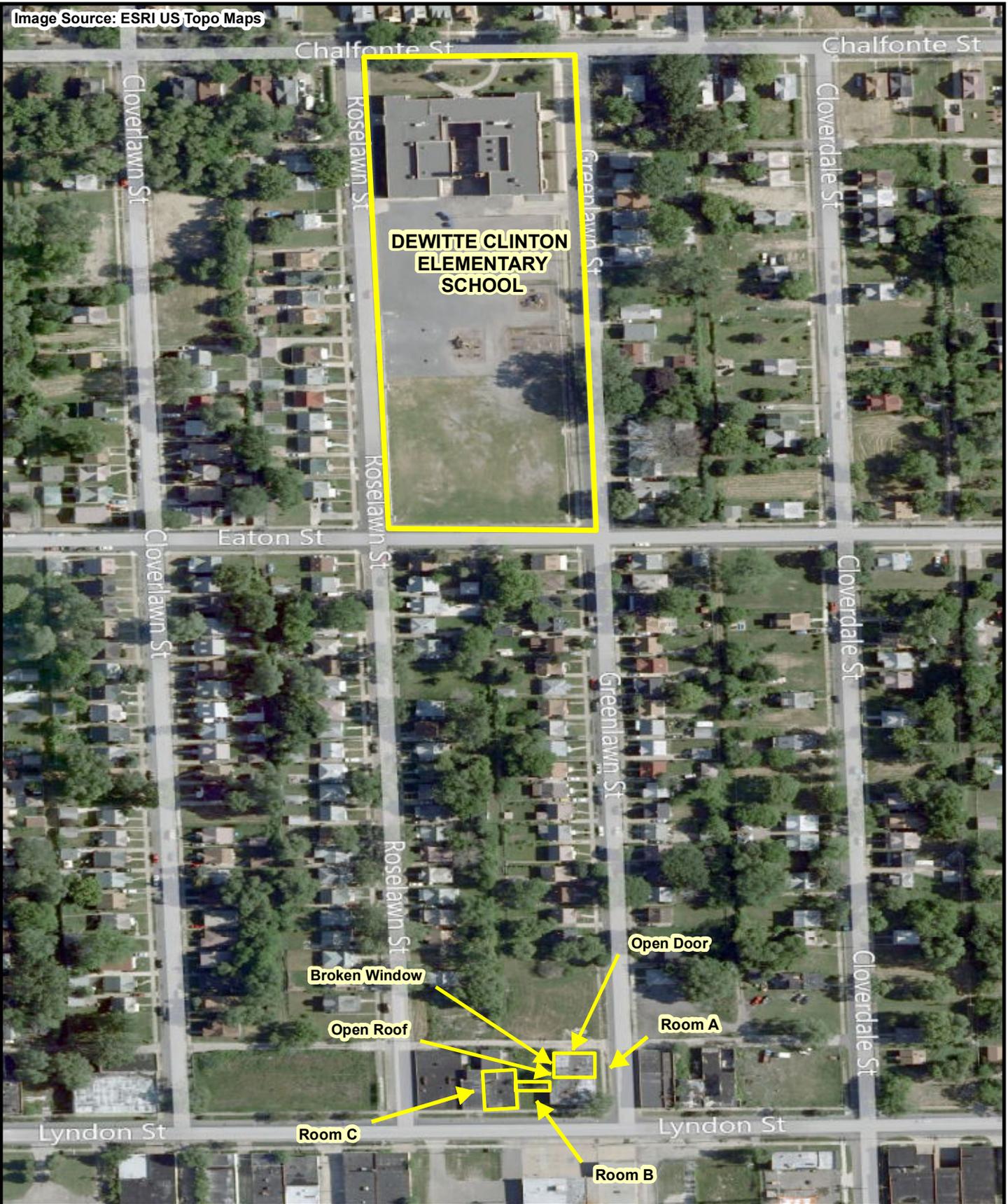


Prepared By:  
**WESTON SOLUTIONS, INC**

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**Figure 1**  
Site Location Map  
Lyndon Street Drum Site  
Detroit, Wayne County, Michigan

Image Source: ESRI US Topo Maps



FILE: D:\Lyndon\_St\_ER\mxd\F2\_Site\_Features.mxd 8/22/2011 1:05:18 PM wojdakon

**Legend**



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Contract No.: EP-S5-06-04  
TDD: S05-0001-1108-017  
DCN: 1570-2A-APOW



Prepared By:  
**WESTON SOLUTIONS, INC**

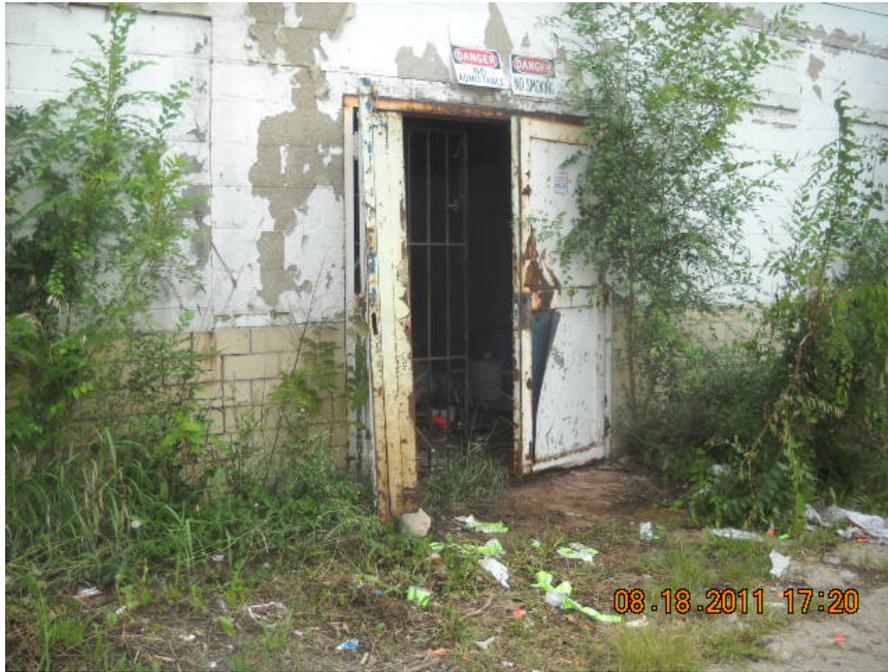
360 E. Maple Road  
Suite R  
Troy, Michigan 48083

**Figure 2**  
Site Features Map  
Lyndon Street Drum Site  
Detroit, Wayne County, Michigan

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**ATTACHMENT B**  
**PHOTOGRAPHIC DOCUMENTATION**

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**Site:** Lyndon Street Drum Site  
**Photograph No.:** 1  
**Direction:** Southwest  
**Subject:** Back of Site building with open door

**Date:** 8/18/11  
**Photographer:** Mike Browning



**Site:** Lyndon Street Drum Site  
**Photograph No.:** 2  
**Direction:** North  
**Subject:** 55-Gallon drum near building door to Room A

**Date:** 8/18/11  
**Photographer:** Mike Browning



**Site:** Lyndon Street Drum Site

**Photograph No.:** 3

**Direction:** Southwest

**Subject:** Drums, cylinders, and laboratory bottles in building near open door to Room A

**Date:** 8/18/11

**Photographer:** Mike Browning



**Site:** Lyndon Street Drum Site

**Photograph No.:** 4

**Direction:** Southeast

**Subject:** Drums, debris, and laboratory bottles in building near open door to Room A

**Date:** 8/18/11

**Photographer:** Mike Browning



**Site:** Lyndon Street Drum Site

**Photograph No.:** 5

**Direction:** North

**Subject:** Deteriorating roof and ceiling in Room A

**Date:** 8/18/11

**Photographer:** Mike Browning



**Site:** Lyndon Street Drum Site

**Photograph No.:** 6

**Direction:** Southwest

**Subject:** Bottles and containers in Room A

**Date:** 8/18/11

**Photographer:** Mike Browning



**Site:** Lyndon Street Drum Site  
**Photograph No.:** 7  
**Direction:** West  
**Subject:** Bottles and containers in Room A

**Date:** 8/18/11  
**Photographer:** Mike Browning



**Site:** Lyndon Street Drum Site  
**Photograph No.:** 8  
**Direction:** West  
**Subject:** Deteriorating roof and ceiling in Room A

**Date:** 8/18/11  
**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 9

**Direction:** Not applicable (NA)

**Subject:** Deteriorating roof and ceiling in the building

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 10

**Direction:** Southwest

**Subject:** Bottles and containers in Room B

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site  
**Photograph No.:** 11  
**Direction:** East  
**Subject:** Drums and containers in Room C

**Date:** 8/18/11  
**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site  
**Photograph No.:** 12  
**Direction:** North  
**Subject:** Drums and containers in Room C

**Date:** 8/18/11  
**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site  
**Photograph No.:** 13  
**Direction:** West  
**Subject:** Drums and containers in Room C

**Date:** 8/18/11  
**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site  
**Photograph No.:** 14  
**Direction:** West  
**Subject:** Collection of sample LD-WL-01-081811

**Date:** 8/18/11  
**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 15

**Direction:** North

**Subject:** Collection of sample LD-WL-01-081811 from Room A

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 16

**Direction:** South

**Subject:** Source container for sample LD-WL-02-081811 in Room A

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 17

**Direction:** South

**Subject:** Source container for sample LD-WL-03-081811 in Room A

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 18

**Direction:** NA

**Subject:** Source container label for sample LD-WL-03-081811 in Room A

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 19

**Direction:** West

**Subject:** Collection of sample LD-WL-04-081811 from Room B

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 20

**Direction:** West

**Subject:** Source container label for sample LD-WL-04-081811 in Room B

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

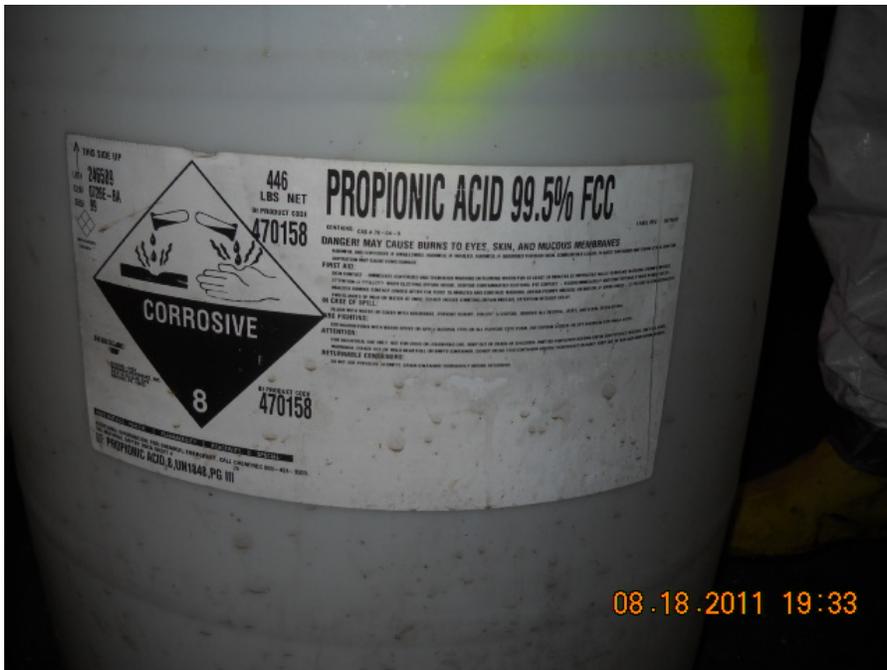
**Photograph No.:** 21

**Direction:** South

**Subject:** Collection of sample LD-WL-05-081811 from Room C

**Date:** 8/18/11

**Photographer:** Brett Coulter



**Site:** Lyndon Street Drum Site

**Photograph No.:** 22

**Direction:** South

**Subject:** Source container label for sample LD-WL-05-081811 in Room C

**Date:** 8/18/11

**Photographer:** Brett Coulter

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**ATTACHMENT C**  
**TABLES**

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**Table 1**  
**Preliminary Container Count**  
**Lyndon Street Drum Site**  
**Detroit, Wayne County, Michigan**

<b>Location</b>	<b>Approximate No.</b>	<b>Description</b>	<b>Container Size</b>
Room A	16	Various containers	20 gallons
	34	Various containers	30 gallons
	16	Poly, steel, and fiber drums	55 gallons
	12	Various containers	<20 gallons
	25	Various containers	5 gallons
	150	Small glass laboratory containers	<1 gallon
	5	Compressed gas cylinders	NA
Room B	140	Small glass and plastic laboratory containers	<1 gallon
	7	Various containers	30 gallons
	1	Poly drum	55 gallons
Room C	86	Poly, cardboard, and steel drums	55 gallons
	63	Glass and plastic containers	<5 gallons
	14	Various containers	30 gallons
	25	Various containers	20 gallons
	3	Compressed gas cylinders	NA

Notes:

< = Less than

NA = Not applicable

Poly = Polyethylene

**Table 2**  
**Analytical Results Summary**  
**Lyndon Street Drum Site**  
**Detroit, Wayne County, Michigan**

Parameter	Unit	Sample No.	LD-WL01-081811		LD-WL02-081811		LD-WL03-081811		LD-WL04-081811		LD-WL05-081811	
		Sampling Date	8/18/2011		8/18/2011		8/18/2011		8/18/2011		8/18/2011	
		Sample Medium	Liquid		Liquid		Liquid		Liquid		Liquid	
		Description/Air Screening Results	Drum of clear liquid labeled "Hexane"/100% LEL, VOCs = 7,200 ppm		Drum of clear liquid labeled "Cyclohexane"/65% LEL, VOCs ≥ 200 ppm		Drum of clear liquid labeled "Diethyl Malonate/Benzene"/37% LEL, VOCs = 3.3 ppm		Drum of clear liquid labeled "Hydrogen Peroxide"/ 0% LEL, VOCs = 0 ppm		Drum of clear liquid labeled "Propionic Acid"/0% LEL, VOCs = 1.2 ppm	
		40 CFR Part 261 Regulatory Level <sup>a</sup>	Result	Detection Limit	Result	Detection Limit	Result	Detection Limit	Result	Detection Limit	Result	Detection Limit
<b>TCLP Metals</b>												
Arsenic	mg/L	5	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Barium	mg/L	100	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Cadmium	mg/L	1	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20
Chromium	mg/L	5	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.9	1.0
Lead	mg/L	5	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Mercury	mg/L	0.2	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Selenium	mg/L	1	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20
Silver	mg/L	5	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
<b>TCLP VOCs</b>												
1,1-Dichloroethene	mg/L	0.7	ND	2.0	ND	2.0	ND	0.1	ND	0.04	ND	2.0
1,2-Dichloroethane	mg/L	0.5	ND	4.0	ND	4.0	ND	0.2	ND	0.08	ND	4.0
1,4-Dichlorobenzene	mg/L	7.5	ND	2.0	ND	2.0	ND	0.25	ND	0.1	ND	2.0
Benzene	mg/L	0.5	ND	2.0	ND	2.0	0.82	0.1	ND	0.04	ND	2.0
Carbon tetrachloride	mg/L	0.5	ND	8.0	ND	8.0	ND	0.23	ND	0.11	ND	8.0
Chlorobenzene	mg/L	100	ND	2.0	ND	2.0	ND	0.25	ND	0.1	ND	2.0
Chloroform	mg/L	6	ND	2.0	ND	2.0	ND	0.1	ND	0.04	ND	2.0
Methyl ethyl ketone	mg/L	200	ND	20	ND	20	ND	2.5	ND	1	ND	20
Tetrachloroethene	mg/L	0.7	ND	2.0	ND	2.0	ND	0.25	ND	0.1	ND	2.0
Trichloroethene	mg/L	0.5	ND	2.0	ND	2.0	ND	0.1	ND	0.04	ND	2.0
Vinyl chloride	mg/L	0.2	ND	2.0	ND	2.0	ND	0.1	ND	0.04	ND	2.0

**Table 2**  
**Analytical Results Summary**  
**Lyndon Street Drum Site**  
**Detroit, Wayne County, Michigan**

Parameter	Unit	Sample No.	LD-WL01-081811		LD-WL02-081811		LD-WL03-081811		LD-WL04-081811		LD-WL05-081811	
		Sampling Date	8/18/2011		8/18/2011		8/18/2011		8/18/2011		8/18/2011	
		Sample Medium	Liquid		Liquid		Liquid		Liquid		Liquid	
		Description/Air Screening Results	Drum of clear liquid labeled "Hexane"/100% LEL, VOCs = 7,200 ppm		Drum of clear liquid labeled "Cyclohexane"/65% LEL, VOCs ≥ 200 ppm		Drum of clear liquid labeled "Diethyl Malonate/Benzene"/37% LEL, VOCs = 3.3 ppm		Drum of clear liquid labeled "Hydrogen Peroxide"/ 0% LEL, VOCs = 0 ppm		Drum of clear liquid labeled "Propionic Acid"/0% LEL, VOCs = 1.2 ppm	
		40 CFR Part 261 Regulatory Level <sup>a</sup>	Result	Detection Limit	Result	Detection Limit	Result	Detection Limit	Result	Detection Limit	Result	Detection Limit
<b>TCLP SVOCs</b>												
2,4,5-Trichlorophenol	mg/L	400	ND	500	ND	500	ND	0.1	ND	0.1	ND	100
2,4,6-Trichlorophenol	mg/L	2	ND	200	ND	200	ND	0.1	ND	0.1	ND	100
2,4-Dinitrotoluene	mg/L	0.13	ND	200	ND	200	ND	0.025	ND	0.025	ND	100
Cresols	mg/L	200	ND	100	ND	100	ND	0.1	ND	0.1	ND	100
Hexachlorobenzene	mg/L	0.13	ND	100	ND	100	ND	0.025	ND	0.025	ND	100
Hexachlorobutadiene	mg/L	0.5	ND	100	ND	100	ND	0.1	ND	0.1	ND	100
Hexachloroethane	mg/L	3	ND	500	ND	500	ND	0.1	ND	0.1	ND	100
Nitrobenzene	mg/L	2	ND	100	ND	100	ND	0.1	ND	0.1	ND	100
Pentachlorophenol	mg/L	100	ND	2,000	ND	2,000	ND	0.1	ND	0.1	ND	500
Pyridine	mg/L	5	ND J	100	ND J	100	<b>5 J</b>	0.17	ND J	0.1	ND J	100
Flashpoint	°F	<140	<b>&lt;68</b>	45	<b>&lt;68</b>	45	<b>110</b>	72	>200	72	<b>130</b>	45
pH	SU	2 to 12.5	5.82	NA	3.45	NA	<b>0.26 E</b>	NA	<b>1.78 E</b>	NA	<b>1.74 E</b>	NA
Total Sulfide	mg/L	Narrative Standard	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Total Cyanide	mg/L or mg/kg	Narrative Standard	ND J, L+	0.1	<b>26 J, L+</b>	0.35	<b>9,000 J, L+</b>	100.0	ND J, L+	0.2	<b>210 J, L+</b>	6.0

Notes:

**Bold** results exceed detection limits.

**Bold shaded** results exceed 40 CFR Part 261 regulatory levels.

% = Percent

< = Less than

> = Greater than

°F = Degree Fahrenheit

40 CFR = Title 40 of the *Code of Federal Regulations*

E = Analyte detected at concentration exceeding the calibration range;

therefore, result considered estimated

LEL = Lower explosive limit

L+ : Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.

a Regulatory level from 40 CFR, Part 261, Identification and Listing of Hazardous Waste

J = value is considered estimated

mg/L or mg/kg = Milligram per liter or milligram per kilogram

NA = Not available

ND = Not detected

ppm = Part per million

SU = Standard unit

SVOC = Semivolatile organic compound

VOC = Volatile organic compound

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**ATTACHMENT D  
LABORATORY ANALYTICAL REPORTS AND  
DATA VALIDATION REPORTS**

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**ER-LYNDON STREET SITE  
DETROIT, MICHIGAN  
DATA VALIDATION REPORT**

**Date:** August 24, 2011

**Laboratory:** Fibertec Environmental Services (Fibertec), Holt, MI

**Laboratory Project #:** 45941

**Data Validation Performed By:** Linda Korobka, Weston Solutions, Inc. (Weston)

This data validation report has been prepared by Weston. This report documents the data validation for liquid and oil samples collected for the ER-Lyndon Street Site, Detroit, Michigan and analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- TCLP Volatile Organic Compounds (VOCs) by SW-846 Methods 1311/8260B
- TCLP Semivolatile Organic Compounds (SVOCs) by SW-846 Methods 1311/8270C
- TCLP Metals by SW-846 Methods 1311/6020A/7471B
- Corrosivity by SW-846 Method 9045D
- Ignitability by SW-846 Method 1010
- Total Sulfide by HACH Method 8131
- Total Cyanide by SW-846 Method 9014

A level II data package was requested from Fibertec. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated July 2007 and "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" dated October 2004. The Attachment contains the results summary sheets with any hand-written qualifiers applied during data validation.

**TCLP VOLATILE ORGANIC COMPOUNDS (VOCs) BY SW-846 METHODS 1311/ 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
LD-WL01-081811	45941-001	Oil	8/18/2011	8/22/2011	8/22/2011

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
LD-WL02-081811	45941-002	Oil	8/18/2011	8/22/2011	8/22/2011
LD-WL03-081811	45941-003	Liquid	8/18/2011	8/22/2011	8/22/2011
LD-WL04-081811	45941-004	Liquid	8/18/2011	8/22/2011	8/22/2011
LD-WL05-081811	45941-005	Oil	8/18/2011	8/22/2011	8/22/2011

2. **Holding Times**

The samples were analyzed within the required holding time limit.

3. **Blanks**

The method blanks were analyzed at the required frequency. Naphthalene (at 10.9 ug/kg) was detected in the method blank. However, this had no affect on the TCLP VOC results.

4. **Surrogates**

Surrogate spike recoveries for TCLP VOC analyses were not presented.

5. **Laboratory Control Sample (LCS) Results**

The TCLP VOC LCS and LCSD recoveries were within the laboratory QC acceptance limits. The TCLP VOC LCS/LCSD RPD values were acceptable.

6. **Matrix Spike/Matrix Spike Duplicate**

There was no MS/MSD audit information presented with this data package.

7. **Field Duplicates**

There were no field duplicate samples with this data package.

8. **Laboratory Qualifiers**

The laboratory did not flag any of the TCLP VOC results.

The data are acceptable for use. TCLP VOC data were not qualified based on the information provided.

**TCLP SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs) BY SW-846 METHODS 1311/  
 8270C**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
LD-WL01-081811	45941-001	Oil	8/18/2011	8/19/2011	8/22/2011
LD-WL02-081811	45941-002	Oil	8/18/2011	8/19/2011	8/22/2011
LD-WL03-081811	45941-003	Liquid	8/18/2011	8/19/2011	8/19; 8/22
LD-WL04-081811	45941-004	Liquid	8/18/2011	8/19/2011	8/19/2011
LD-WL05-081811	45941-005	Oil	8/18/2011	8/19/2011	8/22/2011

**2. Holding Times**

The samples were analyzed within the required holding time limit.

**3. Blanks**

The method blanks were analyzed at the required frequency. The TCLP SVOC method blank was free of contamination.

**4. Surrogates**

Surrogate spike recoveries for TCLP SVOC analyses were not presented.

**5. Laboratory Control Sample (LCS) Results**

The TCLP SVOC LCS recovery for 1,3-dichlorobenzene was outside the laboratory QC acceptance limit. No action was taken because 1,3-dichlorobenzene was not reported on the TCLP SVOC list.

The LCS/LCSD RPD value for pyridine was outside the laboratory QC limit. As a result, the pyridine results for the following samples were estimated (J or UJ):

LD-WL01-081811
LD-WL02-081811
LD-WL03-081811

LD-WL04-081811
LD-WL05-081811

**6. Matrix Spike/Matrix Spike Duplicate**

There was no MS/MSD audit information presented with this data package.

**7. Field Duplicates**

There were no field duplicate samples with this data package.

**8. Laboratory Qualifiers**

The laboratory did not flag any of the TCLP SVOC results.

The data are acceptable for use. TCLP Pyridine results in all samples were estimated due to poor precision.

**TCLP METALS BY SW-846 METHODS 1311/ 6020A/7471A**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
LD-WL01-081811	45941-001	Oil	8/18/2011	8/22/2011	8/22/2011
LD-WL02-081811	45941-002	Oil	8/18/2011	8/22/2011	8/22/2011
LD-WL03-081811	45941-003	Liquid	8/18/2011	8/21/2011	8/22/2011
LD-WL04-081811	45941-004	Liquid	8/18/2011	8/21/2011	8/22/2011
LD-WL05-081811	45941-005	Oil	8/18/2011	8/22/2011	8/22/2011

**2. Holding Times**

The samples were analyzed within the required holding time limit.

**3. Blanks**

The method blanks were analyzed at the required frequency. Chromium at 35.6 ug/L and lead at 6.51 ug/L were detected in the method blank for preparation batch PT11H21A. No action was taken because these metals were not detected in the associated samples.

**4. Laboratory Control Sample (LCS) Results**

The TCLP metals LCS results were within the laboratory QC limits.

**6. Matrix Spike/Matrix Spike Duplicate**

There was no MS/MSD audit information presented with this data package.

**7. Field Duplicates**

There were no field duplicate samples with this data package.

**8. Laboratory Qualifiers**

The laboratory did not flag any of the TCLP metals results.

The data are acceptable for use. TCLP metal data were not qualified based on the information provided.

**TOTAL SULFIDE BY HACH METHOD 8131**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
LD-WL01-081811	45941-001	Oil	8/18/2011	8/22/2011	8/22/2011
LD-WL02-081811	45941-002	Oil	8/18/2011	8/22/2011	8/22/2011
LD-WL03-081811	45941-003	Liquid	8/18/2011	8/22/2011	8/22/2011
LD-WL04-081811	45941-004	Liquid	8/18/2011	8/22/2011	8/22/2011
LD-WL05-081811	45941-005	Oil	8/18/2011	8/22/2011	8/22/2011

**2. Holding Times**

The samples were analyzed within the required holding time limit.

**3. Blanks**

The sulfide method blank was free of contamination.

**4. Laboratory Control Sample (LCS) Results**

The laboratory did not present any sulfide LCS results.

**6. Matrix Spike/Matrix Spike Duplicate**

There was no MS/MSD audit information presented with this data package.

**7. Field Duplicates**

There were no field duplicate samples with this data package.

**8. Laboratory Qualifiers**

The laboratory did not flag any of the sulfide results.

The data are acceptable for use. Sulfide data were not qualified based on the information provided.

**TOTAL CYANIDE BY SW-846 METHOD 9014**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
LD-WL01-081811	45941-001	Oil	8/18/2011	8/22/2011	8/22/2011
LD-WL02-081811	45941-002	Oil	8/18/2011	8/22/2011	8/22/2011
LD-WL03-081811	45941-003	Liquid	8/18/2011	8/22/2011	8/23/2011
LD-WL04-081811	45941-004	Liquid	8/18/2011	8/22/2011	8/22/2011
LD-WL05-081811	45941-005	Oil	8/18/2011	8/22/2011	8/22/2011

**2. Holding Times**

The samples were analyzed within the required holding time limit.

**3. Blanks**

The cyanide method blank contained cyanide at 1280 ug/kg. As a result, the cyanide results in samples LD-WD01-081811 and LD-WD04-081811 were qualified as not detected (U).

4. **Laboratory Control Sample (LCS) Results**

The cyanide LCS recovery was outside the laboratory QC acceptance limits. As a result, all cyanide results were qualified as estimated (J).

6. **Matrix Spike/Matrix Spike Duplicate**

There was no MS/MSD audit information presented with this data package.

7. **Field Duplicates**

There were no field duplicate samples with this data package.

8. **Laboratory Qualifiers**

The laboratory flagged all cyanide results as estimated (with a potential high bias) due to the LCS outlier.

The data are acceptable for use. All cyanide data were estimated (with a potential high bias) due to an LCS outlier. Cyanide results for two samples were qualified as not detected due to blank contamination.

*Jenifer Korob*

8/24/2011



**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-001**

Order: 45941  
 Page: 2 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL01-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>1</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Oil</b>	Collect Time: <b>17:50</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Ignitability (Waste Characterization) (EPA 1010)			Aliquot ID: 45941-001			Matrix: Oil		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Ignitability (NN)	<68		°F	45	1.0	NA	WK11H22A	08/22/11 00:00	WK11H22A

TCLP RCRA-8 Elements by ICP-MS (EPA 3005A-M/EPA 6020A)			Aliquot ID: 45941-001			Matrix: Oil		Analyst: JLH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
2. Barium	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
3. Cadmium	U		mg/L	0.20	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
4. Chromium	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
5. Lead	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
6. Selenium	U		mg/L	0.20	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
7. Silver	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A

TCLP Mercury (EPA 7471B)			Aliquot ID: 45941-001			Matrix: Oil		Analyst: JLH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		mg/L	0.050	0.50	08/22/11	PM11H22A	08/22/11	M411H22B

TCLP Volatiles (EPA 5030B/EPA 8260B)			Aliquot ID: 45941-001			Matrix: Oil		Analyst: JAS	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
2. 2-Butanone	U		mg/L	20	200	08/22/11	V311H22A	08/22/11	V311H22A
3. Carbon Tetrachloride	U		mg/L	8.0	200	08/22/11	V311H22A	08/22/11	V311H22A
4. Chlorobenzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
5. Chloroform	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
6. 1,4-Dichlorobenzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
7. 1,2-Dichloroethane	U		mg/L	4.0	200	08/22/11	V311H22A	08/22/11	V311H22A
8. 1,1-Dichloroethane	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
9. Tetrachloroethene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
10. Trichloroethene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
11. Vinyl Chloride	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A

TCLP Semivolatiles (EPA 3580A/EPA 8270C)			Aliquot ID: 45941-001			Matrix: Oil		Analyst: HLS	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. 2,4-Dinitrotoluene (NN)	U		mg/L	200	40	08/19/11	PS11H19E	08/22/11	S711H22A
2. Hexachlorobenzene	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A
3. Hexachlorobutadiene	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A
4. Hexachloroethane	U		mg/L	500	40	08/19/11	PS11H19E	08/22/11	S711H22A
5. 2-Methylphenol (NN)	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A

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8660 S. Mackinaw Trail	Cadillac, MI 49601	T: (231) 775-8368	F: (231) 775-8584

*2916*  
*8/24/11*



**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-001**

Order: 45941  
 Page: 3 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL01-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>1</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Oil</b>	Collect Time: <b>17:50</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TCLP Semivolatiles (EPA 3580A/EPA 8270C)				Aliquot ID: 45941-001		Matrix: Oil		Analyst: HLS	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. 3&4-Methylphenol (NN)		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A
7. Nitrobenzene		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A
8. Pentachlorophenol		U	mg/L	2000	40	08/19/11	PS11H19E	08/22/11	S711H22A
9. Pyridine		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A
10. 2,4,5-Trichlorophenol		U	mg/L	500	40	08/19/11	PS11H19E	08/22/11	S711H22A
11. 2,4,6-Trichlorophenol		U	mg/L	200	40	08/19/11	PS11H19E	08/22/11	S711H22A

Cyanide, Total (CLP ISM01.2/EPA 9014)				Aliquot ID: 45941-001		Matrix: Oil		Analyst: CML	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Cyanide	5200	J,L+	µg/kg	100	1.6	08/22/11	PW11H22B	08/22/11	WP11H22A

Corrosivity (Waste Characterization) (EPA 9045D)				Aliquot ID: 45941-001		Matrix: Oil		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. pH	5.82		pH Units	NA	1.0	08/19/11	WD11H19B	08/19/11	WD11H19B

*YAK  
8/24/11*

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-001**

Order: 45941  
Page: 4 of 17  
Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL01-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>1</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Oil</b>	Collect Time: <b>17:50</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Sulfide (HACH 8131)		Aliquot ID: 45941-001A			Matrix: Other (Liquid)		Analyst: CML		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Sulfide (NN)		U	mg/L	0.20	1.0	08/22/11	WF11H22A	08/22/11	WF11H22A

*gjk  
8/24/11*

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-002**

Order: 45941  
 Page: 5 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL02-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>2</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Oil</b>	Collect Time: <b>18:15</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Ignitability (Waste Characterization) (EPA 1010)			Aliquot ID: 45941-002			Matrix: Oil		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Ignitability (NN)	<68		°F	45	1.0	NA	WK11H22A	08/22/11 00:00	WK11H22A

TCLP RCRA-8 Elements by ICP-MS (EPA 3005A-M/EPA 6020A)			Aliquot ID: 45941-002			Matrix: Oil		Analyst: JLH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
2. Barium	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
3. Cadmium	U		mg/L	0.20	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
4. Chromium	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
5. Lead	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
6. Selenium	U		mg/L	0.20	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
7. Silver	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A

TCLP Mercury (EPA 7471B)			Aliquot ID: 45941-002			Matrix: Oil		Analyst: JLH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		mg/L	0.050	0.50	08/22/11	PM11H22A	08/22/11	M411H22B

TCLP Volatiles (EPA 5030B/EPA 8260B)			Aliquot ID: 45941-002			Matrix: Oil		Analyst: JAS	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
2. 2-Butanone	U		mg/L	20	200	08/22/11	V311H22A	08/22/11	V311H22A
3. Carbon Tetrachloride	U		mg/L	8.0	200	08/22/11	V311H22A	08/22/11	V311H22A
4. Chlorobenzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
5. Chloroform	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
6. 1,4-Dichlorobenzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
7. 1,2-Dichloroethane	U		mg/L	4.0	200	08/22/11	V311H22A	08/22/11	V311H22A
8. 1,1-Dichloroethene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
9. Tetrachloroethene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
10. Trichloroethene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
11. Vinyl Chloride	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A

TCLP Semivolatiles (EPA 3580A/EPA 8270C)			Aliquot ID: 45941-002			Matrix: Oil		Analyst: HLS	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. 2,4-Dinitrotoluene (NN)	U		mg/L	200	40	08/19/11	PS11H19E	08/22/11	S711H22A
2. Hexachlorobenzene	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A
3. Hexachlorobutadiene	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A
4. Hexachloroethane	U		mg/L	500	40	08/19/11	PS11H19E	08/22/11	S711H22A
5. 2-Methylphenol (NN)	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-002**

Order: 45941  
 Page: 6 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL02-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>2</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Oil</b>	Collect Time: <b>18:15</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TCLP Semivolatiles (EPA 3580A/EPA 8270C)				Aliquot ID: 45941-002			Matrix: Oil		Analyst: HLS	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
6. 3&4-Methylphenol (NN)		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A	
7. Nitrobenzene		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A	
8. Pentachlorophenol		U	mg/L	2000	40	08/19/11	PS11H19E	08/22/11	S711H22A	
9. Pyridine		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S711H22A	
10. 2,4,5-Trichlorophenol		U	mg/L	500	40	08/19/11	PS11H19E	08/22/11	S711H22A	
11. 2,4,6-Trichlorophenol		U	mg/L	200	40	08/19/11	PS11H19E	08/22/11	S711H22A	

Cyanide, Total (CLP ISM01.2/EPA 9014)				Aliquot ID: 45941-002			Matrix: Oil		Analyst: CML	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Cyanide	26000	J, L	µg/kg	350	1:2	08/22/11	PW11H22B	08/22/11	WP11H22A	

Corrosivity (Waste Characterization) (EPA 9045D)				Aliquot ID: 45941-002			Matrix: Oil		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. pH	3.45		pH Units	NA	1.0	08/19/11	WD11H19B	08/19/11	WD11H19B	

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-002**

Order: 45941  
Page: 7 of 17  
Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL02-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>2</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Oil</b>	Collect Time: <b>18:15</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Sulfide (HACH 8131)		Aliquot ID: 45941-002A			Matrix: Other (Liquid)		Analyst: CML		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1.Sulfide (NN)		U	mg/L	0.20	1.0	08/22/11	WF11H22A	08/22/11	WF11H22A

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-003**

Order: 45941  
 Page: 8 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL03-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>3</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Other (Liquid)</b>	Collect Time: <b>18:30</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Ignitability (Waste Characterization) (EPA 1010)				Aliquot ID: 45941-003			Matrix: Other (Liquid)		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Ignitability	110		°F	72	1.0	NA	WK11H22A	08/22/11	WK11H22A	

Corrosivity (Waste Characterization) (EPA 9040C)				Aliquot ID: 45941-003			Matrix: Other (Liquid)		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. pH	0.26	E	pH Units	NA	1.0	08/19/11	WD11H19B	08/19/11	WD11H19B	

Sulfide (HACH 8131)				Aliquot ID: 45941-003			Matrix: Other (Liquid)		Analyst: CML	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Sulfide (NN)	U		mg/L	0.20	1.0	08/22/11	WF11H22A	08/22/11	WF11H22A	

Cyanide, Total (SM 4500-CN- C./SM 4500-CN- E.)				Aliquot ID: 45941-003			Matrix: Other (Liquid)		Analyst: CML	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Cyanide	9000	J.L. + J	mg/L	100	20000	08/22/11	PW11H22A	08/23/11	WP11H22A	

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-003**

Order: 45941  
 Page: 9 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL03-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>3</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Other (Liquid)</b>	Collect Time: <b>18:30</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TCLP RCRA-8 Elements by ICP-MS (EPA 3005A-M/EPA 6020A)				Aliquot ID: 45941-003A			Matrix: TCLP Extract		Analyst: JLH
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic		U	mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A
2. Barium		U	mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A
3. Cadmium		U	mg/L	0.20	20	08/21/11	PT11H21A	08/22/11	T211H22A
4. Chromium		U	mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A
5. Lead		U	mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A
6. Selenium		U	mg/L	0.20	20	08/21/11	PT11H21A	08/22/11	T211H22A
7. Silver		U	mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A

TCLP Mercury (EPA 7470A)				Aliquot ID: 45941-003A			Matrix: TCLP Extract		Analyst: JLH
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury		U	mg/L	0.050	100	08/21/11	PM11H21C	08/22/11	M411H22A

TCLP Volatiles (EPA 5030B/EPA 8260B)				Aliquot ID: 45941-003A			Matrix: TCLP Extract		Analyst: CDH
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	0.82		mg/L	0.10	500	08/22/11	VH11H22B	08/22/11	VH11H22B
2. 2-Butanone		U	mg/L	2.5	500	08/22/11	VH11H22B	08/22/11	VH11H22B
3. Carbon Tetrachloride		U	mg/L	0.23	500	08/22/11	VH11H22B	08/22/11	VH11H22B
4. Chlorobenzene		U	mg/L	0.25	500	08/22/11	VH11H22B	08/22/11	VH11H22B
5. Chloroform		U	mg/L	0.10	500	08/22/11	VH11H22B	08/22/11	VH11H22B
6. 1,4-Dichlorobenzene		U	mg/L	0.25	500	08/22/11	VH11H22B	08/22/11	VH11H22B
7. 1,2-Dichloroethane		U	mg/L	0.20	500	08/22/11	VH11H22B	08/22/11	VH11H22B
8. 1,1-Dichloroethene		U	mg/L	0.10	500	08/22/11	VH11H22B	08/22/11	VH11H22B
9. Tetrachloroethene		U	mg/L	0.25	500	08/22/11	VH11H22B	08/22/11	VH11H22B
10. Trichloroethene		U	mg/L	0.10	500	08/22/11	VH11H22B	08/22/11	VH11H22B
11. Vinyl Chloride		U	mg/L	0.10	500	08/22/11	VH11H22B	08/22/11	VH11H22B

TCLP Semivolatiles (EPA 3510C/EPA 8270C)				Aliquot ID: 45941-003A			Matrix: TCLP Extract		Analyst: TMC
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. 1,4-Dichlorobenzene		U	mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B
2. 2,4-Dinitrotoluene (NN)		U	mg/L	0.025	17	08/19/11	PS11H19B	08/19/11	S111H19B
3. Hexachlorobenzene		U	mg/L	0.025	17	08/19/11	PS11H19B	08/19/11	S111H19B
4. Hexachlorobutadiene		U	mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B
5. Hexachloroethane		U	mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B
6. 2-Methylphenol (NN)		U	mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B
7. 3&4-Methylphenol (NN)		U	mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B
8. Nitrobenzene		U	mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B
9. Pentachlorophenol		U	mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B
10. Pyridine	5.0	U	mg/L	0.17	170	08/19/11	PS11H19B	08/22/11	S111H22C

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-003**

Order: 45941  
Page: 10 of 17  
Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL03-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>3</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Other (Liquid)</b>	Collect Time: <b>18:30</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TCLP Semivolatiles (EPA 3510C/EPA 8270C)		Aliquot ID: 45941-003A			Matrix: TCLP Extract		Analyst: TMC		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
11. 2,4,5-Trichlorophenol	U		mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B
12. 2,4,6-Trichlorophenol	U		mg/L	0.10	17	08/19/11	PS11H19B	08/19/11	S111H19B

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-004**

Order: 45941  
 Page: 11 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL04-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>4</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Other (Liquid)</b>	Collect Time: <b>18:45</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Ignitability (Waste Characterization) (EPA 1010)				Aliquot ID: 45941-004			Matrix: Other (Liquid)		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Ignitability	>200		°F	72	1.0	NA	WK11H22A	08/22/11	WK11H22A	

Corrosivity (Waste Characterization) (EPA 9040C)				Aliquot ID: 45941-004			Matrix: Other (Liquid)		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. pH	1.78	E	pH Units	NA	1.0	08/19/11	WD11H19B	08/19/11	WD11H19B	

Sulfide (HACH 8131)				Aliquot ID: 45941-004			Matrix: Other (Liquid)		Analyst: CML	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Sulfide (NN)	U		mg/L	0.20	1.0	08/22/11	WF11H22A	08/22/11	WF11H22A	

Cyanide, Total (SM 4500-CN- C./SM 4500-CN- E.)				Aliquot ID: 45941-004			Matrix: Other (Liquid)		Analyst: CML	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Cyanide	0.27	J, L, U	mg/L	0.20	20	08/22/11	PW11H22A	08/22/11	WP11H22A	

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-004**

Order: 45941  
 Page: 12 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL04-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>4</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Other (Liquid)</b>	Collect Time: <b>18:45</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TCLP RCRA-8 Elements by ICP-MS (EPA 3005A-M/EPA 6020A)				Aliquot ID: 45941-004A			Matrix: TCLP Extract		Analyst: JLH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Arsenic	U		mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A	
2. Barium	U		mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A	
3. Cadmium	U		mg/L	0.20	20	08/21/11	PT11H21A	08/22/11	T211H22A	
4. Chromium	U		mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A	
5. Lead	U		mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A	
6. Selenium	U		mg/L	0.20	20	08/21/11	PT11H21A	08/22/11	T211H22A	
7. Silver	U		mg/L	1.0	20	08/21/11	PT11H21A	08/22/11	T211H22A	

TCLP Mercury (EPA 7470A)				Aliquot ID: 45941-004A			Matrix: TCLP Extract		Analyst: JLH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Mercury	U		mg/L	0.050	100	08/21/11	PM11H21C	08/22/11	M411H22A	

TCLP Volatiles (EPA 5030B/EPA 8260B)				Aliquot ID: 45941-004A			Matrix: TCLP Extract		Analyst: CDH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Benzene	U		mg/L	0.040	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
2. 2-Butanone	U		mg/L	1.0	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
3. Carbon Tetrachloride	U		mg/L	0.11	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
4. Chlorobenzene	U		mg/L	0.10	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
5. Chloroform	U		mg/L	0.040	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
6. 1,4-Dichlorobenzene	U		mg/L	0.10	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
7. 1,2-Dichloroethane	U		mg/L	0.080	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
8. 1,1-Dichloroethene	U		mg/L	0.040	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
9. Tetrachloroethene	U		mg/L	0.10	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
10. Trichloroethene	U		mg/L	0.040	200	08/22/11	VH11H22B	08/22/11	VH11H22B	
11. Vinyl Chloride	U		mg/L	0.040	200	08/22/11	VH11H22B	08/22/11	VH11H22B	

TCLP Semivolatiles (EPA 3510C/EPA 8270C)				Aliquot ID: 45941-004A			Matrix: TCLP Extract		Analyst: TMC	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. 2,4-Dinitrotoluene (NN)	U		mg/L	0.025	19	08/19/11	PS11H19B	08/19/11	S111H19B	
2. Hexachlorobenzene	U		mg/L	0.025	19	08/19/11	PS11H19B	08/19/11	S111H19B	
3. Hexachlorobutadiene	U		mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B	
4. Hexachloroethane	U		mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B	
5. 2-Methylphenol (NN)	U		mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B	
6. 3,4-Methylphenol (NN)	U		mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B	
7. Nitrobenzene	U		mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B	
8. Pentachlorophenol	U		mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B	
9. Pyridine	U	✓	mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B	
10. 2,4,5-Trichlorophenol	U		mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B	

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*ZAC*  
*8/24/11*



**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-004**

Order: 45941  
Page: 13 of 17  
Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL04-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>4</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Other (Liquid)</b>	Collect Time: <b>18:45</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TCLP Semivolatiles (EPA 3510C/EPA 8270C)			Aliquot ID: 45941-004A			Matrix: TCLP Extract		Analyst: TMC	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
11,2,4,6-Trichlorophenol		U	mg/L	0.10	19	08/19/11	PS11H19B	08/19/11	S111H19B

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-005**

Order: 45941  
 Page: 14 of 17  
 Date: 08/23/11

Client Identification: **Weston Solutions, Inc. - Troy**      Sample Description: **LD-WL05-081811**      Chain of Custody: **111742**  
 Client Project Name: **Lyndon St. Drum**      Sample No: **5**      Collect Date: **08/18/11**  
 Client Project No: **NA**      Sample Matrix: **Oil**      Collect Time: **19:00**

Sample Comments:

Definitions:      Q: Qualifier (see definitions at end of report)      NA: Not Applicable      NN: Parameter not included in NELAC Scope of Analysis.

Ignitability (Waste Characterization) (EPA 1010)			Aliquot ID: 45941-005			Matrix: Oil		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Ignitability (NN)	130		°F	45	1.0	NA	WK11H22A	08/22/11 00:00	WK11H22A

TCLP RCRA-8 Elements by ICP-MS (EPA 3005A-M/EPA 6020A)			Aliquot ID: 45941-005			Matrix: Oil		Analyst: JLH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
2. Barium	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
3. Cadmium	U		mg/L	0.20	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
4. Chromium	1.9		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
5. Lead	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
6. Selenium	U		mg/L	0.20	2.0	08/22/11	PT11H22A	08/22/11	T211H22A
7. Silver	U		mg/L	1.0	2.0	08/22/11	PT11H22A	08/22/11	T211H22A

TCLP Mercury (EPA 7471B)			Aliquot ID: 45941-005			Matrix: Oil		Analyst: JLH	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		mg/L	0.050	0.50	08/22/11	PM11H22A	08/22/11	M411H22B

TCLP Volatiles (EPA 5030B/EPA 8260B)			Aliquot ID: 45941-005			Matrix: Oil		Analyst: JAS	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
2. 2-Butanone	U		mg/L	20	200	08/22/11	V311H22A	08/22/11	V311H22A
3. Carbon Tetrachloride	U		mg/L	8.0	200	08/22/11	V311H22A	08/22/11	V311H22A
4. Chlorobenzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
5. Chloroform	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
6. 1,4-Dichlorobenzene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
7. 1,2-Dichloroethane	U		mg/L	4.0	200	08/22/11	V311H22A	08/22/11	V311H22A
8. 1,1-Dichloroethene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
9. Tetrachloroethene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
10. Trichloroethene	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A
11. Vinyl Chloride	U		mg/L	2.0	200	08/22/11	V311H22A	08/22/11	V311H22A

TCLP Semivolatiles (EPA 3580A/EPA 8270C)			Aliquot ID: 45941-005			Matrix: Oil		Analyst: TMC	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. 2,4-Dinitrotoluene (NN)	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C
2. Hexachlorobenzene	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C
3. Hexachlorobutadiene	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C
4. Hexachloroethane	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C
5. 2-Methylphenol (NN)	U		mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C

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*201C  
8/24/11*



**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-005**

Order: 45941  
 Page: 15 of 17  
 Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL05-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>5</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Oil</b>	Collect Time: <b>19:00</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

TCLP Semivolatiles (EPA 3580A/EPA 8270C)				Aliquot ID: 45941-005			Matrix: Oil		Analyst: TMC	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
6. 3&4-Methylphenol (NN)		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C	
7. Nitrobenzene		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C	
8. Pentachlorophenol		U	mg/L	500	40	08/19/11	PS11H19E	08/22/11	S111H22C	
9. Pyridine		U <i>J</i>	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C	
10. 2,4,5-Trichlorophenol		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C	
11. 2,4,6-Trichlorophenol		U	mg/L	100	40	08/19/11	PS11H19E	08/22/11	S111H22C	

Cyanide, Total (CLP ISM01.2/EPA 9014)				Aliquot ID: 45941-005			Matrix: Oil		Analyst: CML	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Cyanide	210000	J,L+	µg/kg	6000	20	08/22/11	PW11H22B	08/22/11	WP11H22A	

Corrosivity (Waste Characterization) (EPA 9045D)				Aliquot ID: 45941-005			Matrix: Oil		Analyst: LRW	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. pH	1.74	E	pH Units	NA	1.0	08/19/11	WD11H19B	08/09/11	WD11H19B	

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**Analytical Laboratory Report**  
**Laboratory Project Number: 45941**  
**Laboratory Sample Number: 45941-005**

Order: 45941  
Page: 16 of 17  
Date: 08/23/11

Client Identification: <b>Weston Solutions, Inc. - Troy</b>	Sample Description: <b>LD-WL05-081811</b>	Chain of Custody: <b>111742</b>
Client Project Name: <b>Lyndon St. Drum</b>	Sample No: <b>5</b>	Collect Date: <b>08/18/11</b>
Client Project No: <b>NA</b>	Sample Matrix: <b>Oil</b>	Collect Time: <b>19:00</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

<b>Sulfide (HACH 8131)</b>	<b>Aliquot ID: 45941-005A</b>			<b>Matrix: Other (Liquid)</b>		<b>Analyst: CML</b>			
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1.Sulfide (NN)		U	mg/L	0.20	1.0	08/22/11	WF11H22A	08/22/11	WF11H22A

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**Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QA limits

**Exception Summary:**

- L+ : Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.



Accreditation Number:

**E-10395**

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