



Weston Solutions of Michigan, Inc.  
Suite R  
360 E. Maple Road  
Troy, MI 48083  
248-658-5000 • Fax 248-658-5001  
www.westonsolutions.com

July 23, 2012

Mr. Brian Kelly  
On-Scene Coordinator  
United States Environmental Protection Agency  
Region V  
9311 Groh Road  
Grosse Ile, MI 48318

**Subject: Detroit Tubular Rivet Site Removal Action**  
**Wyandotte, Wayne County, Michigan**  
**Technical Direction Document No.: S05-0001-1204-018**  
**Document Control No.: 1831-2A-AXAT**  
**Work Order No.: 20405.012.001.1831.00**

Dear Mr. Kelly:

The United States Environmental Protection Agency (U.S. EPA) tasked the Superfund Technical Assessment and Response Team (START) contractor, Weston Solutions, Inc. (WESTON®), to provide oversight and technical support for removal action activities at the Detroit Tubular Rivet Site in Wyandotte, Wayne County, Michigan (the Site). Specifically, under Technical Direction Document No. S05-0001-1204-018, U.S. EPA requested WESTON START to perform the following:

- Prepare an air monitoring plan and site contingency plan
- Provide written and photographic documentation of Site conditions and activities
- Manage Site files and information
- Provide information needed to prepare U.S. EPA Pollution Reports
- Provide technical support to the U.S. EPA On-Scene Coordinator
- Conduct perimeter and breathing zone air monitoring
- Perform oversight of Site activities conducted by the Emergency and Rapid Response Services (ERRS) contractor, LATA-Kemron Remediation Services, LLC, of Westerville Ohio, including the following:
  - Develop Site support documents
  - Set up a contamination reduction zone (CRZ), exclusion zone (EZ), and support zone
  - Collect and stage hazardous substances identified at the Site
  - Prepare identified hazardous substances for disposal
  - Conduct off-site disposal of hazardous substances
- Conduct final inspections of work areas upon work completion



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The U.S. EPA conducted the removal action to mitigate an imminent and substantial threat to the public health or welfare of the United States or the environment posed by potentially uncontrolled hazardous substances at the Site. The removal action began on May 21, 2012, and was completed on June 15, 2012.

This report discusses the Site description, Site history, removal action activities, the effectiveness of the removal action, and conclusions.

## **SITE DESCRIPTION**

The Site is located at 1213 Grove Street in Wyandotte, Wayne County, Michigan (**Attachment A, Figure 1**). The Site coordinates are 42°11'30.00" North latitude and 83°10'05.00" West longitude. The Site is in a mixed light industrial and residential area and is bordered to the north by Grove Street and industrial/commercial properties; to the east by an industrial property and railroad tracks; to the south by industrial properties; and to the west by 13<sup>th</sup> Street, Monroe Elementary School, and residential properties. Monroe Elementary School is located 400 feet directly west of the Site, and the nearest residences are located 200 feet northwest of the Site. The Trenton Channel of the Detroit River is approximately 0.8 mile southeast of the Site.

The Site is situated on approximately 3 acres and contains a one-story building occupying a total of approximately 52,000 square feet of combined warehouse and office space. **Figure 2 in Attachment A** shows the Site features. The building has loading docks on its north and west sides, and a fenced-in parking lot is located on the east side of the Site. During the removal action, the Site was no longer operational and nearly all industrial equipment once located within the Site building had been removed.

## **SITE HISTORY**

Detroit Tubular Rivet, Incorporated (DTR), used the Site to produce steel, brass, and aerospace metal rivets and to provide zinc and brass electroplating services. DTR began business at the Site in the early 1960s until filing bankruptcy in 2010.

On January 12, 2012, the Michigan Department of Environmental Quality (MDEQ) issued a violation notice to the Site owner in response to a follow-up inspection on December 13, 2011. The purpose of the inspection was to evaluate DTR's compliance with Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. During the inspection, MDEQ noted 16 hazardous and liquid industrial waste violations, including failure to perform the following:

- Minimize the possibility of fire, explosion, or release of hazardous waste that could threaten human health and/or the environment



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- Maintain containers of hazardous waste in good condition
- Maintain closed hazardous waste containers except when adding or removing waste
- Manage waste in a manner that prevents the discharge of liquid industrial waste into the soil, surface water, groundwater, or a drain or sewer.

On January 30 2012, the U.S. EPA and WESTON START conducted a Site assessment that included a Site reconnaissance, container inventory, and sampling of the abandoned drums and containers at the Site. Several drums at the Site were labeled hazardous waste, and laboratory analytical results confirmed the presence of hazardous wastes that included, but were not limited to, methylene chloride, copper cyanide, and corrosive wastes. Site conditions posed a high threat for release and potential exposure, including unrestricted access, proximity to residences and the school, and the presence of hazardous wastes. The Site assessment report dated February 28, 2012, prepared by WESTON START details the Site assessment activities and conclusions.

On April 10, 2012, the U.S. EPA issued an Action Memorandum for a time-critical removal action at the Site to abate imminent and substantial endangerment posed by hazardous substances at the Site. The removal of hazardous substances was conducted pursuant to (1) Section 104(a)(1) of the Comprehensive Environmental Response, Compensation, and Liability Act, Title 42 of the *United States Code*, Section 9604(a)(1), and (2) Section 300.415(b)(2) of the National Oil and Hazardous Substances Pollution Contingency Plan as amended (Title 40 of the *Code of Federal Regulations*, Part 300.415).

### **REMOVAL ACTION ACTIVITIES**

On-site removal action activities began on May 21, 2012, and were completed on June 15, 2012. The removal action activities included the following:

- Development and implementation of a site-specific work plan and health and safety plan (HASP)
- Development of a site-specific emergency contingency plan and air monitoring plan
- Initial site setup and development of the Site support zone, CRZ, and EZ
- Site perimeter and breathing zone air monitoring
- Staging, sampling, hazard categorization (HAZCAT), consolidation, and over-packing of all wastes abandoned in on-site containers, a dumpster, trenches and pits, and aboveground storage tanks (AST)
- Decommissioning of the remaining plating line and its ventilation system
- Off-site disposal of wastes
- Implementation of Site security measures and demobilization from the Site



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Each activity is discussed below. **Attachment B** provides photographic documentation of Site conditions and removal action activities.

### **Development and Implementation of a Site-Specific Work Plan and HASP**

The ERRS contractor developed a work plan and site-specific HASP dated May 2012. The work plan details the removal action scope of work and objectives. The HASP details Site hazards (including contaminants of concern), air monitoring requirements and action levels during work activities, and health and safety protocols for each task to be performed at the Site. The HASP also describes proper personal protective equipment (PPE) to be used on a task-by-task basis and Site emergency procedures.

### **Development of a Site-Specific Emergency Contingency Plan and Air Monitoring Plan**

U.S. EPA and WESTON START developed site-specific emergency contingency and air monitoring plans, both dated May 2012. The emergency contingency plan details proper procedures and protocols for emergencies during the removal action (such as vandalism, trespassing, medical emergency, fire, and explosion). The air monitoring plan discusses protocol for air monitoring at the Site, types of instruments to be used, chemicals to be monitored, and action levels for those chemicals.

### **Initial Site Setup and Development of the Site Support Zone, CRZ, and EZ**

On May 21, 2012, U.S. EPA, START, and ERRS personnel initiated removal action activities and began mobilizing equipment to the Site. The ERRS contractor set up two office trailers with supporting amenities as a Site command post and support zone, with separate offices housing U.S. EPA, WESTON START, and ERRS personnel. The command post and support zone were set up in the fenced parking lot on the east side of the Site. A conex box was delivered to the Site to allow secure storage of equipment and supplies during removal action activities. The ERRS contractor also procured an electrician to connect power from two large generators to the Site trailers. Heavy machinery delivered to the Site to aid in the removal action included a wheeled skid-steer.

Before removal activities began, the ERRS contractor secured doorways and entrances into the Site building, established emergency escape routes, and demarcated the support zone, CRZ, and EZ with signage. The CRZ was set up at the eastern entry point into the Site building and included receptacles for spent PPE, emergency shower and eye wash stations, a first aid kit, and tables for an equipment drop and supplies. The EZ included the remaining areas inside the Site building. In addition, the following Site controls were established: two off-site emergency rally points; several locations for fire extinguishers; and recycling receptacles in each office trailer for paper, cardboard, and plastic.



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### **Site Perimeter and Breathing Zone Air Monitoring**

During the removal action, WESTON START conducted continuous real-time air monitoring along the Site perimeter and within the breathing zone of work zones. Four AreaRAE multi-gas monitoring units were deployed along the Site perimeter and within the Site building on a daily basis, weather permitting. AreaRAE units were positioned along the east and west Site perimeters, at the waste staging area in an open warehouse section located in the southeast corner of the Site building, and in an area where work was taking place (**Attachment A, Figure 2**). The units provided data representative of potential off-site migration of fugitive emissions. The AreaRAE network monitored air quality for volatile organic compounds (VOC), hydrogen cyanide (HCN), hydrogen sulfide (H<sub>2</sub>S), lower explosive limit (LEL), and percent oxygen (%O<sub>2</sub>) and relayed those measurements to the command post through data telemetry at 5-minute intervals. The AreaRAE measurements were monitored for action level exceedances, data irregularities, and potential issues (such as sensor drift). Cross-checking of action level exceedances as well as periodic monitoring within the EZ were completed using a MultiRAE Plus multi-gas meter that also monitored for VOCs, HCN, H<sub>2</sub>S, LEL, and %O<sub>2</sub>. Calibration logs and air monitoring data for all monitoring units were maintained in an on Site database and are included in the Site files.

During the removal action, no sustained VOC, HCN, H<sub>2</sub>S, LEL, or %O<sub>2</sub> readings exceeded action levels outside the EZ. Elevated air readings recorded by the AreaRAE units along the Site perimeter, specifically VOC and HCN readings, were attributed to meteorological effects on the unit or to sensor drift after cross-checking with the MultiRAE Plus confirmed that all measurements actually were at background levels. In the EZ, a peak VOC measurement of 4.6 parts per million (ppm) was recorded on May 30, 2012, near an open tote within the waste staging area. The response manager immediately was notified and actions were taken to reduce the VOC emissions. Other low-level VOC fluctuations within the EZ were attributed to multiple factors, including, but not limited to, the presence of open or leaking containers, over-packing and bulking of liquid wastes into drums, and the labeling of containers with spray-paint in preparation for disposal. A maximum HCN measurement of 5.6 ppm within the EZ was recorded on May 23, 2012, while ERRS workers were sampling drums and containers in the waste staging area. At the time, ERRS workers were in Level B PPE, the exceedance was not sustained for more than 1 minute, and a cross-check with the MultiRAE Plus could not replicate the elevated HCN measurement. It is unknown if the HCN measurement represented a true condition or could be attributed to sensor drift.

In addition to air monitoring with the AreaRAE and MultiRAE units, a MiniRAE carbon monoxide (CO) monitor was deployed within the EZ in areas where heavy machinery or gasoline-powered generator use was required. In the EZ, no CO, H<sub>2</sub>S, LEL, or %O<sub>2</sub> measurements exceeded action levels over the duration of the project.



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### **Staging, Sampling, HAZCAT, Consolidation, and Over-Packing of all Wastes Abandoned in On-Site Waste Containers, a Dumpster, Trenches and Pits, and ASTs**

On May 22, 2012, a waste staging area was established in an open warehouse section located in the southeast corner of the Site building. The area was lined with polyethylene (poly) sheeting and absorbent boom to create a temporary secondary containment barrier. All waste containers throughout the Site, including drums, totes, and small containers, were collected by hand, skid-steer, or truck and relocated to the waste staging area. Overall, most of the drums and containers were in good to average condition, with only a few showing signs of leakage. Some containers had no visible markings, whereas others had original manufacture labels, hand-written labels, or placards with corrosive or toxic labels.

At the time of mobilization, a roll-off dumpster was located outside the western exterior of the building and contained hazardous filter cake material from the Site plating line. The dumpster was unsecured, easily accessible to vandalism, and a noted violation by the State of Michigan. On May 23, 2012, Cousins Waste Control LLC relocated the roll-off dumpster into the Site waste staging area, where it would be secured and prepared for disposal.

On May 23, 2012, ERRS personnel in Level B PPE began sampling the staged containers as well as the contents of seven trenches and pits located throughout the Site building. A sample was collected from each container, trench, and pit using a drum thief and placed into 4-ounce glass containers for HAZCAT analysis. Sample collection was completed on May 24, 2012.

On May 25, 2012, on-site HAZCAT began on the samples collected. A ERRS chemist analyzed and filled out a hazardous classification data sheet for each sample. The data sheets include results for such tests as water solubility, hydrogen ion concentration (pH), flammability, cyanides, oxidizers, and sulfides. Hazard categories included, but were not limited to, corrosives, caustics, oxidizers, and flammables.

Consolidation of similar wastes and over-packing of containers began on June 5, 2012. Drums of similar contents were bulked together when possible to save on disposal costs. Oily liquid wastes originally stored in 5-gallon containers and trench and pit liquids were bulked into 55-gallon drums. The plating line filter cake waste was moved from the roll-off dumpster into poly-lined cubic-yard boxes. Cyanide drums and the remaining small containers were over-packed into 55-gallon drums. On June 11, 2012, oily liquids in 55-gallon drums and the contents of the ASTs were pumped into a tanker truck and shipped off site for disposal. Because of their relatively good condition, the remaining drums were cleaned, labeled, and prepared for disposal. On June 13, 2012, final consolidation and over-packing of all on-site wastes had been completed and the wastes awaited disposal.

### **Decommissioning of Remaining Plating Line and its Ventilation System**

On May 25, 2012, decommission of the electro-plating line in the Site building began. ERRS personnel removed the remaining ventilation hoods and associated piping because these items

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were contaminated with caustic material deposited during plating processes. The plating line equipment was moved by skid-steer and staged on poly sheeting in the waste staging area. Later, the equipment was cut up and placed into a roll-off dumpster for disposal. The remaining wastes left on the plating line floors were wetted, collected into the plating line trenches, and collected as plating line sludge. Decommission of the plating line was completed on June 1, 2012.

### **Off-Site Disposal of Hazardous Wastes**

Before solid and liquid waste disposal between June 11 and 14, 2012, ERRS personnel collected disposal samples from each disposal category (oily liquids and solids, aqueous liquids, inorganic acids, alkaline solids, liquids, trench liquids, plating line sludge, and plating line filter cake solids). The samples were submitted on May 29, 2012, for analysis by ALS Laboratory Group of Holland Michigan. **Attachment C** provides the analytical results for these samples.

During June 2012, all identified hazardous wastes at the Site were sent off site for disposal at U.S. EPA-approved disposal facilities. The waste disposal summary table in **Attachment D** and the text below summarize the wastes shipped for off-site disposal.

- On June 11, 2012, 30 cubic yards (yd<sup>3</sup>) of caustic debris from the plating line ventilation system was sent for disposal to Woodland Meadows RDF of Wayne, Michigan.
- On June 11, 2012, an estimated 4,800 gallons of non-hazardous, non-regulated liquids (waste oil) was sent for disposal to EQ Detroit Inc. of Detroit, Michigan.
- On June 13, 2012, 30 yd<sup>3</sup> of non-Resource Conservation and Recovery Act (RCRA), Non-U.S. Department of Transportation (DOT)-regulated oily debris was sent for disposal to Woodland Meadows RDF.
- On June 14, 2012, 5,600 pounds of NA3077 hazardous waste solids in the form of F006 plating line filter cake was sent for disposal to Michigan Disposal Wastewater Treatment Plant (WTP) of Belleville, Michigan.
- On June 14, 2012, the following wastes were sent for disposal to EQ Detroit Inc.: 6,550 pounds of corrosive liquid acid; 950 pounds of chromic and formic acid; 800 pounds of sodium hydroxide; 1,350 pounds of corrosive and oxidizing liquid; 600 pounds of corrosive liquid base; 900 pounds of flammable liquid; 3,200 pounds of dichloromethane; 150 pounds of hydrogen peroxide; and 8,150 pounds of non-regulated material.
- On June 14, 2012, 770 pounds of cyanide wastes, including sodium and zinc cyanide solids and sodium cyanide solution, and 275 pounds of non-hazardous and non-regulated empty drums were sent for disposal to EQ Detroit Inc.



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### **Implementation of Site Security Measures and Demobilization from Site**

On June 15, 2012, the removal action was completed and all identified wastes at the Site had been disposed of. ERRS personnel began removal and demobilization of support equipment and secured all entrances to the Site building.

### **EFFECTIVENESS OF REMOVAL ACTION**

The removal action performed at the Site successfully addressed imminent and substantial threats to the public health or welfare of the United States or the environment posed by unrestricted access to potentially uncontrolled hazardous substances at the Site. No known hazardous wastes remain at the Site. The risk of direct access to uncontrolled wastes was removed from the Site to reduce or mitigate the following potential impacts:

- Potential exposure of nearby human populations, animals, and the food chain to hazardous substances or pollutants or contaminants from the Site
- Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers that may pose a threat of release
- Threat of fire or explosion

### **CONCLUSIONS**

The risk to the public health or welfare of the United States or the environment from direct contact or exposure to potentially uncontrolled hazardous waste liquids and solids from the Site has been removed through the collection, identification, and proper disposal of wastes identified at the Site. The removal action protected a total of approximately 2.5 acres of the Site property as well as nearby residential properties.





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If you have any questions or comments regarding this report, please contact Matthew Beer at (248) 658-5009 or Alexandra Clark at (248) 658-5015.

Sincerely,  
WESTON SOLUTIONS, INC.

A handwritten signature in black ink that reads "Matthew A. Beer".

Matthew Beer  
WESTON START Project Scientist

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

Alexandra Clark  
WESTON START Project Manager

Attachments:

- A – Figures
- B – Photographic Documentation
- C – Laboratory Analytical Results
- D – Waste Disposal Summary Table

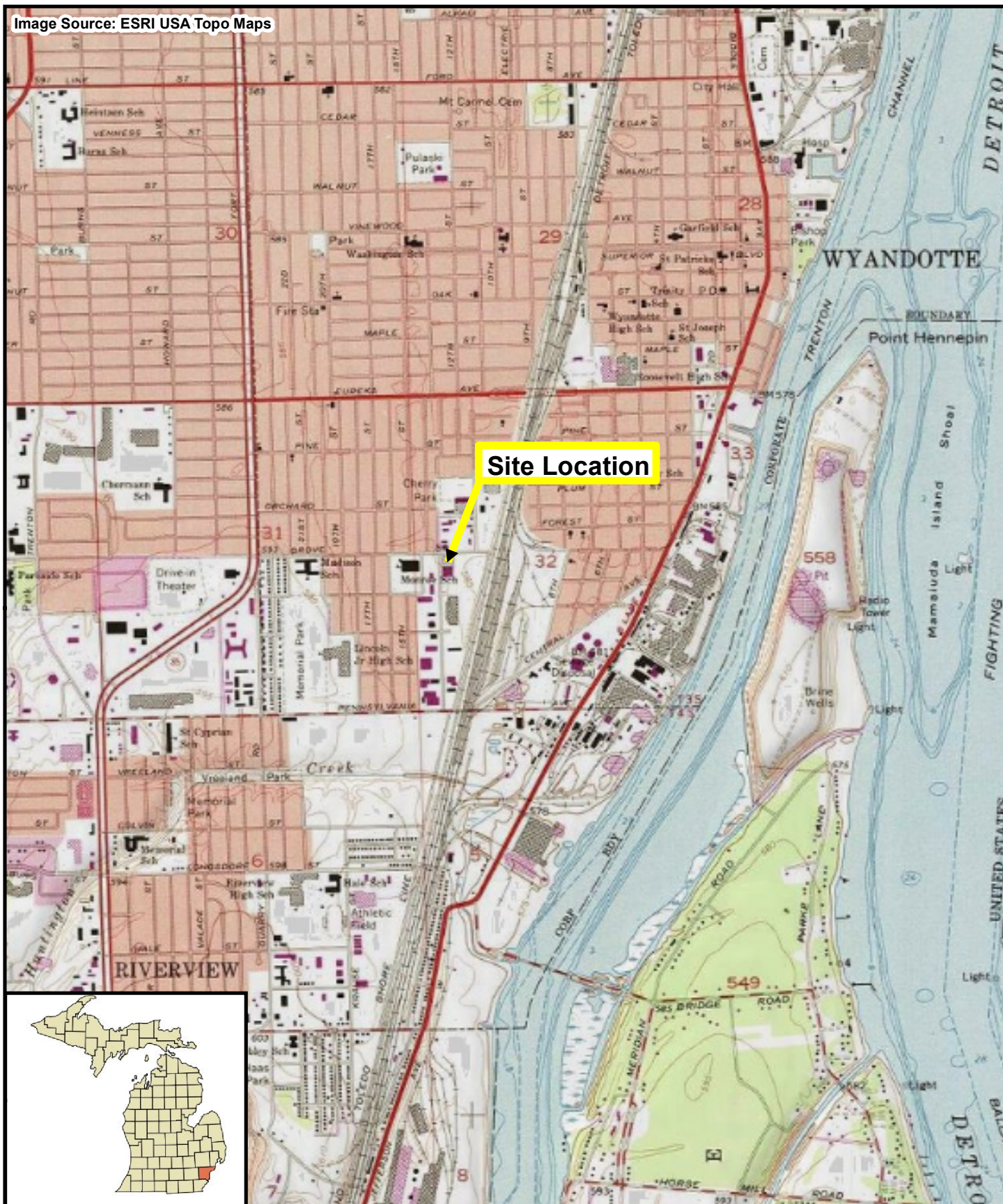
cc: WESTON START DCN File

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**ATTACHMENT A**  
**FIGURES**

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Image Source: ESRI USA Topo Maps



May 2012



0 0.25 0.5 Miles



Prepared for:  
U.S. EPA REGION V

Contract No.: EP-S5-06-04  
TDD: S05-0001-1204-018  
DCN: 1831-2A-AXAT



Prepared By:  
WESTON  
SOLUTIONS, INC

360 East Maple Road  
Suite R  
Troy, Michigan 48083

**Figure 1**  
Site Location Map  
Detroit Tubular Rivet Site  
Wyandotte, Wayne County, Michigan



Image Source: ESRI Imagery Maps



- Site Boundary
- AreaRAE Unit



0 50 100 200 300 Feet



Prepared for:  
U.S. EPA REGION V

Contract No.: EP-S5-06-04  
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DCN: 1831-2A-AXAT



Prepared By:  
WESTON  
SOLUTIONS, INC

360 East Maple Road  
Suite R  
Troy, Michigan 48083

**Figure 2**  
Site Feature Map  
Detroit Tubular Rivet Site  
Wyandotte, Wayne County, Michigan

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

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**Site:** Detroit Tubular Rivet

**Photograph No.:** 1

**Direction:** Southwest

**Subject:** Detroit Tubular Rivet Site building

**Date:** 5/21/2012

**Photographer:** Matthew Beer



**Site:** Detroit Tubular Rivet

**Photograph No.:** 2

**Direction:** North

**Subject:** Abandoned drums and small containers of waste

**Date:** 5/21/2012

**Photographer:** Matthew Beer





**Site:** Detroit Tubular Rivet

**Photograph No.:** 3

**Direction:** North

**Subject:** Abandoned drums of dichloromethane (methylene chloride)

**Date:** 5/21/2012

**Photographer:** Matthew Beer



**Site:** Detroit Tubular Rivet

**Photograph No.:** 4

**Direction:** West

**Subject:** Abandoned small containers of waste

**Date:** 5/21/2012

**Photographer:** Matthew Beer



**Site:** Detroit Tubular Rivet

**Photograph No.:** 5

**Direction:** Northeast

**Subject:** ASTs containing used oil

**Date:** 5/21/2012

**Photographer:** Matthew Beer



**Site:** Detroit Tubular Rivet

**Photograph No.:** 6

**Direction:** South

**Subject:** Plating line and associated ventilation system

**Date:** 5/21/2012

**Photographer:** Matthew Beer



**Site:** Detroit Tubular Rivet  
**Photograph No.:** 7  
**Direction:** Southwest  
**Subject:** Abandoned drums of cyanide waste

**Date:** 5/21/2012  
**Photographer:** Matthew Beer



**Site:** Detroit Tubular Rivet  
**Photograph No.:** 8  
**Direction:** Northeast  
**Subject:** Dumpster containing hazardous plating line filter cake material

**Date:** 5/21/2012  
**Photographer:** Matthew Beer





**Site:** Detroit Tubular Rivet

**Photograph No.:** 9

**Date:** 5/23/2012

**Direction:** West

**Photographer:** Matthew Beer

**Subject:** AreaRAE air monitoring unit deployed on Site perimeter



**Site:** Detroit Tubular Rivet

**Photograph No.:** 10

**Date:** 5/23/2012

**Direction:** East

**Photographer:** Matthew Beer

**Subject:** Small containers of waste relocated to the staging area



**Site:** Detroit Tubular Rivet

**Photograph No.:** 11

**Direction:** Northeast

**Subject:** Drums of waste relocated to the staging area

**Date:** 5/23/2012

**Photographer:** Matthew Beer



**Site:** Detroit Tubular Rivet

**Photograph No.:** 12

**Direction:** Southeast

**Subject:** Sampling of drums and containers in Level B PPE

**Date:** 5/23/2012

**Photographer:** Matthew Beer



**Site:** Detroit Tubular Rivet

**Photograph No.:** 13

**Direction:** Down

**Subject:** One of several pits cleared of waste

**Date:** 5/31/2012

**Photographer:** Sean Kane



**Site:** Detroit Tubular Rivet

**Photograph No.:** 14

**Direction:** South

**Subject:** Plating line ventilation system and caustic debris

**Date:** 5/31/2012

**Photographer:** Sean Kane





**Site:** Detroit Tubular Rivet

**Photograph No.:** 15

**Direction:** South

**Subject:** Decontamination of plating line area and its trenches

**Date:** 6/1/2012

**Photographer:** Sean Kane



**Site:** Detroit Tubular Rivet

**Photograph No.:** 16

**Direction:** Northeast

**Subject:** Building interior free of all identified wastes

**Date:** 5/25/2012

**Photographer:** Sean Kane



**Site:** Detroit Tubular Rivet

**Photograph No.:** 17

**Direction:** Northwest

**Subject:** Building interior free of all identified wastes

**Date:** 5/25/2012

**Photographer:** Sean Kane

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**ATTACHMENT C**  
**LABORATORY ANALYTICAL RESULTS**

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07-Jun-2012

Gary Acquaro  
LATA-Kemron Remediation Services, LLC  
2424 Louisiana Blvd, NE  
Suite 400  
Albuquerque, NM 87110

Re: **Detroit Tubular Rivet Site (65000-45)**

Work Order: **1205842**

Dear Gary,

ALS Environmental received 18 samples on 30-May-2012 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 64.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish  
Senior Project Manager



Certificate No: MN331938

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Group A Campbell Brothers Limited Company

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RIGHT SOLUTIONS RIGHT PARTNER

**Client:** LATA-Kemron Remediation Services, LLC  
**Project:** Detroit Tubular Rivet Site (65000-45)  
**Work Order:** 1205842

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1205842-01	WS-A1 Oil Layer	Oil		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-02	WS-A1 Oil Layer	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-03	WS-A2 Water Layer	Liquid		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-04	WS-A2 Water Layer	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-05	WS-B Oily Solids	Solid		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-06	WS-B Oily Solids	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-07	WS-C Inorganic Acids	Liquid		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-08	WS-C Inorganic Acid	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-09	WS-E Alkaline Solids	Solid		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-10	WS-E Alkaline Solids	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-11	WS-F Non Haz Liquids	Liquid		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-12	WS-F Non Haz Liquids	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-13	WS-I Trench Liquids	Liquid		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-14	WS-I Trench Liquids	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-15	WS-J Plating Sludge	Sludge		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-16	WS-J Plating Sludge	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-17	WS-K F006 Dumpster	Solid		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>
1205842-18	WS-K F006 Dumpster	Tclp Extract		05/29/12 13:00	05/30/12 08:00	<input type="checkbox"/>

**Client:** LATA-Kemron Remediation Services, LLC  
**Project:** Detroit Tubular Rivet Site (65000-45)  
**WorkOrder:** 1205842

## **QUALIFIERS, ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
°F	Degrees Fahrenheit
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
BTU/lb as recd.	British Thermal Units per Pound as Received
mg/Kg	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
s.u.	Standard Units
wt%	Weight Percent



**Client:** LATA-Kemron Remediation Services, LLC  
**Project:** Detroit Tubular Rivet Site (65000-45)  
**Work Order:** 1205842

**Case Narrative****Analytical Comments:**

Batch 41386, Method TCBA\_8270\_S, Sample 1205842-12A: The surrogate TCLP SVOC recoveries are unavailable due to dilution below the calibration range.

Batch 41386, Method TCBA\_8270\_S, Sample 1205842-12A: The TCLP SVOC analysis required dilution due to matrix interference.

**TCLP Metals - 40 CFR Part 261.24 (b)**

Parameter	Maximum Concentration For Toxicity Characteristic (mg/L)
Mercury	0.2
Arsenic	5.0
Barium	100
Cadmium	1.0
Chromium	5.0
Lead	5.0
Selenium	1.0
Silver	5.0

**TCLP Semi-Volatiles - 40 CFR Part 261.24 (b)**

Parameter	Maximum Concentration For Toxicity Characteristic (µg/L)
1,4-Dichlorobenzene	7,500
2,4-Dinitrotoluene	130
Hexachloro-1,3-butadiene	500
Hexachlorobenzene	130
Hexachloroethane	3,000
Nitrobenzene	2,000
Pyridine	5,000
m-Cresol	200,000

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**Client:** LATA-Kemron Remediation Services, LLC  
**Project:** Detroit Tubular Rivet Site (65000-45)  
**Work Order:** 1205842

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**Case Narrative**

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o-Cresol	200,000
p-Cresol	200,000
Pentachlorophenol	100,000
2,4,5-Trichlorophenol	400,000
2,4,6-Trichlorophenol	2,000

TCLP Volatiles - 40 CFR Part 261.24 (b)

Parameter	Maximum Concentration For Toxicity Characteristic (µg/L)
1,1-Dichloroethene	700
1,2-Dichloroethane	500
2-Butanone	200,000
Benzene	500
Carbon Tetrachloride	500
Chlorobenzene	100,000
Chloroform	6,000
Tetrachloroethene	700
Trichloroethene	500
Vinyl Chloride	200

QC Comments:

Batch 41375C, Method CNA\_9012\_W, Sample 1205842-11A MS: The MS and MSD recoveries were below the lower control limit. The corresponding Amenable Cyanide result in the parent sample may be biased low.

Batch 41405A, Method CN\_9012\_S, Sample 1205842-09A MSD: The MSD recovery was below the lower control limit. The corresponding Total Cyanide result in the parent sample may be biased low.

# ALS Group USA, Corp

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC

**Project:** Detroit Tubular Rivet Site (65000-45)

**Sample ID:** WS-A1 Oil Layer

**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842

**Lab ID:** 1205842-01

**Matrix:** OIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PCBS</b>						
			<b>SW8082</b>		Prep Date: <b>05/30/12</b>	Analyst: <b>JD</b>
Aroclor 1016	ND		1.0	mg/Kg	1	05/30/12 02:02 PM
Aroclor 1221	ND		1.0	mg/Kg	1	05/30/12 02:02 PM
Aroclor 1232	ND		1.0	mg/Kg	1	05/30/12 02:02 PM
Aroclor 1242	ND		1.0	mg/Kg	1	05/30/12 02:02 PM
Aroclor 1248	ND		1.0	mg/Kg	1	05/30/12 02:02 PM
Aroclor 1254	ND		1.0	mg/Kg	1	05/30/12 02:02 PM
Aroclor 1260	ND		1.0	mg/Kg	1	05/30/12 02:02 PM
PCBs, Total	ND		1.0	mg/Kg	1	05/30/12 02:02 PM
Surr: Decachlorobiphenyl	65.0		40-140	%REC	1	05/30/12 02:02 PM
<b>BOMB COMBUSTION/ION ANALYSIS</b>						
			<b>SW5050/9056</b>			Analyst: <b>ED</b>
Total Chlorine	ND		0.060	wt%	1	06/04/12 03:09 PM
<b>CALORIFIC VALUE (BTUS)</b>						
			<b>D240</b>			Analyst: <b>ED</b>
Calorific Value (BTU)	14,000		100	BTU/lb as recd.	1	06/01/12 03:30 PM
<b>FLASHPOINT, P-M CLOSED-CUP</b>						
			<b>D93</b>			Analyst: <b>MB</b>
Flashpoint, P-M Closed-cup	>200			°F	1	05/31/12 04:00 PM
<b>KARL FISCHER WATER</b>						
			<b>E203-75</b>			Analyst: <b>JB</b>
Karl Fischer Water	23		0.050	wt%	1	06/05/12 02:00 PM
<b>PH</b>						
			<b>SW9045</b>			Analyst: <b>KV</b>
pH	7.00			s.u.	1	05/31/12 08:10 PM
<b>SULFIDE, REACTIVE</b>						
			<b>SW7.3.4.2</b>			Analyst: <b>NZ</b>
Sulfide, Reactive	49		40	mg/Kg	1	06/05/12 11:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC

**Project:** Detroit Tubular Rivet Site (65000-45)

**Sample ID:** WS-A1 Oil Layer

**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842

**Lab ID:** 1205842-02

**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		SW7470A 0.0020	mg/L	Prep Date: 06/01/12 1	Analyst: LR 06/01/12 03:43 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	0.071		SW6020A 0.010	mg/L	Prep Date: 06/01/12 1	Analyst: RH 06/01/12 05:33 PM
Barium	0.64		0.050	mg/L	1	06/01/12 05:33 PM
Cadmium	0.0090		0.0020	mg/L	1	06/01/12 05:33 PM
Chromium	0.021		0.020	mg/L	1	06/01/12 05:33 PM
Lead	ND		0.010	mg/L	1	06/01/12 05:33 PM
Selenium	ND		0.020	mg/L	1	06/01/12 05:33 PM
Silver	ND		0.0050	mg/L	1	06/01/12 05:33 PM
<b>TCLP SEMI-VOLATILE ORGANICS</b>						
1,4-Dichlorobenzene	ND		SW8270 100	µg/L	Prep Date: 06/01/12 1	Analyst: HL 06/01/12 09:55 PM
2,4,5-Trichlorophenol	ND		100	µg/L	1	06/01/12 09:55 PM
2,4,6-Trichlorophenol	ND		100	µg/L	1	06/01/12 09:55 PM
2,4-Dinitrotoluene	ND		100	µg/L	1	06/01/12 09:55 PM
Hexachloro-1,3-butadiene	ND		100	µg/L	1	06/01/12 09:55 PM
Hexachlorobenzene	ND		100	µg/L	1	06/01/12 09:55 PM
Hexachloroethane	ND		100	µg/L	1	06/01/12 09:55 PM
m-Cresol	100		100	µg/L	1	06/01/12 09:55 PM
Nitrobenzene	ND		100	µg/L	1	06/01/12 09:55 PM
o-Cresol	ND		100	µg/L	1	06/01/12 09:55 PM
p-Cresol	100		100	µg/L	1	06/01/12 09:55 PM
Pentachlorophenol	ND		400	µg/L	1	06/01/12 09:55 PM
Pyridine	ND		400	µg/L	1	06/01/12 09:55 PM
Surr: 2,4,6-Tribromophenol	93.0		21-125	%REC	1	06/01/12 09:55 PM
Surr: 2-Fluorobiphenyl	78.3		39-94	%REC	1	06/01/12 09:55 PM
Surr: 2-Fluorophenol	51.1		10-75	%REC	1	06/01/12 09:55 PM
Surr: 4-Terphenyl-d14	85.6		26-119	%REC	1	06/01/12 09:55 PM
Surr: Nitrobenzene-d5	71.9		41-104	%REC	1	06/01/12 09:55 PM
Surr: Phenol-d6	28.8		11-50	%REC	1	06/01/12 09:55 PM
<b>TCLP VOLATILE ORGANICS</b>						
1,1-Dichloroethene	ND		SW8260 20	µg/L	Prep Date: 06/01/12 20	Analyst: AK 06/02/12 01:39 AM
1,2-Dichloroethane	ND		20	µg/L	20	06/02/12 01:39 AM
2-Butanone	ND		200	µg/L	20	06/02/12 01:39 AM
Benzene	ND		20	µg/L	20	06/02/12 01:39 AM
Carbon tetrachloride	ND		20	µg/L	20	06/02/12 01:39 AM
Chlorobenzene	ND		20	µg/L	20	06/02/12 01:39 AM
Chloroform	ND		20	µg/L	20	06/02/12 01:39 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

## ALS Group USA, Corp

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC

**Project:** Detroit Tubular Rivet Site (65000-45)

**Sample ID:** WS-A1 Oil Layer

**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842

**Lab ID:** 1205842-02

**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	ND		20	µg/L	20	06/02/12 01:39 AM
Trichloroethene	ND		20	µg/L	20	06/02/12 01:39 AM
Vinyl chloride	ND		20	µg/L	20	06/02/12 01:39 AM
Surr: 1,2-Dichloroethane-d4	95.6		70-130	%REC	20	06/02/12 01:39 AM
Surr: 4-Bromofluorobenzene	98.8		70-130	%REC	20	06/02/12 01:39 AM
Surr: Dibromofluoromethane	98.2		70-130	%REC	20	06/02/12 01:39 AM
Surr: Toluene-d8	102		70-130	%REC	20	06/02/12 01:39 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC  
**Project:** Detroit Tubular Rivet Site (65000-45)  
**Sample ID:** WS-A2 Water Layer  
**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842  
**Lab ID:** 1205842-03  
**Matrix:** LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>BOMB COMBUSTION/ION ANALYSIS</b>						
Total Chlorine	ND		SW5050/9056 0.060	wt%	1	Analyst: <b>ED</b> 06/05/12 11:45 AM
<b>CALORIFIC VALUE (BTUS)</b>						
Calorific Value (BTU)	ND		D240 100	BTU/lb as recd.	1	Analyst: <b>ED</b> 06/04/12 01:30 PM
<b>FLASHPOINT, P-M CLOSED-CUP</b>						
Flashpoint, P-M Closed-cup	>200		D93	°F	1	Analyst: <b>MB</b> 06/05/12 11:00 AM
<b>KARL FISCHER WATER</b>						
Karl Fischer Water	92		E203-75 0.050	wt%	1	Analyst: <b>JB</b> 06/05/12 02:00 PM
<b>PH</b>						
pH	7.52		SW9040	s.u.	1	Analyst: <b>KV</b> 05/30/12 11:20 AM
<b>SULFIDE, REACTIVE</b>						
Sulfide, Reactive	ND		SW7.3.4.2 40	mg/Kg	1	Analyst: <b>NZ</b> 06/05/12 11:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC

**Project:** Detroit Tubular Rivet Site (65000-45)

**Sample ID:** WS-A2 Water Layer

**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842

**Lab ID:** 1205842-04

**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		SW7470A 0.0020	mg/L	Prep Date: 06/01/12 1	Analyst: LR 06/01/12 03:45 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	0.072		SW6020A 0.010	mg/L	Prep Date: 06/01/12 1	Analyst: RH 06/01/12 05:53 PM
Barium	0.13		0.050	mg/L	1	06/01/12 05:53 PM
Cadmium	0.0055		0.0020	mg/L	1	06/01/12 05:53 PM
Chromium	0.40		0.020	mg/L	1	06/01/12 05:53 PM
Lead	ND		0.010	mg/L	1	06/01/12 05:53 PM
Selenium	ND		0.020	mg/L	1	06/01/12 05:53 PM
Silver	ND		0.0050	mg/L	1	06/01/12 05:53 PM
<b>TCLP SEMI-VOLATILE ORGANICS</b>						
			SW8270		Prep Date: 06/01/12	Analyst: HL
1,4-Dichlorobenzene	ND		100	µg/L	1	06/01/12 10:30 PM
2,4,5-Trichlorophenol	ND		100	µg/L	1	06/01/12 10:30 PM
2,4,6-Trichlorophenol	ND		100	µg/L	1	06/01/12 10:30 PM
2,4-Dinitrotoluene	ND		100	µg/L	1	06/01/12 10:30 PM
Hexachloro-1,3-butadiene	ND		100	µg/L	1	06/01/12 10:30 PM
Hexachlorobenzene	ND		100	µg/L	1	06/01/12 10:30 PM
Hexachloroethane	ND		100	µg/L	1	06/01/12 10:30 PM
m-Cresol	260		100	µg/L	1	06/01/12 10:30 PM
Nitrobenzene	ND		100	µg/L	1	06/01/12 10:30 PM
o-Cresol	ND		100	µg/L	1	06/01/12 10:30 PM
p-Cresol	260		100	µg/L	1	06/01/12 10:30 PM
Pentachlorophenol	ND		400	µg/L	1	06/01/12 10:30 PM
Pyridine	ND		400	µg/L	1	06/01/12 10:30 PM
Surr: 2,4,6-Tribromophenol	86.8		21-125	%REC	1	06/01/12 10:30 PM
Surr: 2-Fluorobiphenyl	75.9		39-94	%REC	1	06/01/12 10:30 PM
Surr: 2-Fluorophenol	47.0		10-75	%REC	1	06/01/12 10:30 PM
Surr: 4-Terphenyl-d14	77.6		26-119	%REC	1	06/01/12 10:30 PM
Surr: Nitrobenzene-d5	70.8		41-104	%REC	1	06/01/12 10:30 PM
Surr: Phenol-d6	29.4		11-50	%REC	1	06/01/12 10:30 PM
<b>TCLP VOLATILE ORGANICS</b>						
			SW8260		Prep Date: 06/01/12	Analyst: AK
1,1-Dichloroethene	ND		20	µg/L	20	06/02/12 02:05 AM
1,2-Dichloroethane	ND		20	µg/L	20	06/02/12 02:05 AM
2-Butanone	ND		200	µg/L	20	06/02/12 02:05 AM
Benzene	ND		20	µg/L	20	06/02/12 02:05 AM
Carbon tetrachloride	ND		20	µg/L	20	06/02/12 02:05 AM
Chlorobenzene	ND		20	µg/L	20	06/02/12 02:05 AM
Chloroform	ND		20	µg/L	20	06/02/12 02:05 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp****Date:** 07-Jun-12**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-A2 Water Layer**Lab ID:** 1205842-04**Collection Date:** 05/29/12 01:00 PM**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	ND		20	µg/L	20	06/02/12 02:05 AM
Trichloroethene	ND		20	µg/L	20	06/02/12 02:05 AM
Vinyl chloride	ND		20	µg/L	20	06/02/12 02:05 AM
Surr: 1,2-Dichloroethane-d4	97.2		70-130	%REC	20	06/02/12 02:05 AM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	20	06/02/12 02:05 AM
Surr: Dibromofluoromethane	100		70-130	%REC	20	06/02/12 02:05 AM
Surr: Toluene-d8	100		70-130	%REC	20	06/02/12 02:05 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC

**Project:** Detroit Tubular Rivet Site (65000-45)

**Sample ID:** WS-B Oily Solids

**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842

**Lab ID:** 1205842-05

**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>PCBS</b>						
			<b>SW8082</b>		Prep Date: <b>06/01/12</b>	Analyst: <b>JD</b>
Aroclor 1016	ND		420	µg/Kg-dry	10	06/04/12 03:42 PM
Aroclor 1221	ND		420	µg/Kg-dry	10	06/04/12 03:42 PM
Aroclor 1232	ND		420	µg/Kg-dry	10	06/04/12 03:42 PM
Aroclor 1242	ND		420	µg/Kg-dry	10	06/04/12 03:42 PM
Aroclor 1248	ND		420	µg/Kg-dry	10	06/04/12 03:42 PM
Aroclor 1254	ND		420	µg/Kg-dry	10	06/04/12 03:42 PM
Aroclor 1260	ND		420	µg/Kg-dry	10	06/04/12 03:42 PM
PCBs, Total	ND		420	µg/Kg-dry	10	06/04/12 03:42 PM
Surr: Tetrachloro-m-xylene	90.1		45-124	%REC	10	06/04/12 03:42 PM
Surr: Decachlorobiphenyl	110		40-140	%REC	10	06/04/12 03:42 PM
<b>FLASHPOINT, OPEN-CUP</b>						
			<b>D92</b>			Analyst: <b>MB</b>
Flashpoint, Open-cup	>200			°F	1	06/06/12 02:00 PM
<b>MOISTURE</b>						
			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	6.2		0.050	% of sample	1	05/30/12 01:10 PM
<b>PH</b>						
			<b>SW9045D</b>			Analyst: <b>KV</b>
pH	6.76			s.u.	1	05/30/12 11:20 AM
<b>SULFIDE, REACTIVE</b>						
			<b>SW7.3.4.2</b>			Analyst: <b>NZ</b>
Sulfide, Reactive	ND		43	mg/Kg-dry	1	06/05/12 11:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC

**Project:** Detroit Tubular Rivet Site (65000-45)

**Sample ID:** WS-B Oily Solids

**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842

**Lab ID:** 1205842-06

**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		SW7470A 0.0020	mg/L	Prep Date: 06/01/12 1	Analyst: LR 06/01/12 03:47 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	0.016		SW6020A 0.010	mg/L	Prep Date: 06/01/12 1	Analyst: RH 06/01/12 05:58 PM
Barium	0.35		0.050	mg/L	1	06/01/12 05:58 PM
Cadmium	0.026		0.0020	mg/L	1	06/01/12 05:58 PM
Chromium	0.88		0.020	mg/L	1	06/01/12 05:58 PM
Lead	1.7		0.010	mg/L	1	06/01/12 05:58 PM
Selenium	ND		0.020	mg/L	1	06/01/12 05:58 PM
Silver	ND		0.0050	mg/L	1	06/01/12 05:58 PM
<b>TCLP SEMI-VOLATILE ORGANICS</b>						
1,4-Dichlorobenzene	ND		SW8270 100	µg/L	Prep Date: 06/01/12 1	Analyst: HL 06/01/12 11:04 PM
2,4,5-Trichlorophenol	ND		100	µg/L	1	06/01/12 11:04 PM
2,4,6-Trichlorophenol	ND		100	µg/L	1	06/01/12 11:04 PM
2,4-Dinitrotoluene	ND		100	µg/L	1	06/01/12 11:04 PM
Hexachloro-1,3-butadiene	ND		100	µg/L	1	06/01/12 11:04 PM
Hexachlorobenzene	ND		100	µg/L	1	06/01/12 11:04 PM
Hexachloroethane	ND		100	µg/L	1	06/01/12 11:04 PM
m-Cresol	ND		100	µg/L	1	06/01/12 11:04 PM
Nitrobenzene	ND		100	µg/L	1	06/01/12 11:04 PM
o-Cresol	ND		100	µg/L	1	06/01/12 11:04 PM
p-Cresol	ND		100	µg/L	1	06/01/12 11:04 PM
Pentachlorophenol	ND		400	µg/L	1	06/01/12 11:04 PM
Pyridine	ND		400	µg/L	1	06/01/12 11:04 PM
Surr: 2,4,6-Tribromophenol	86.6		21-125	%REC	1	06/01/12 11:04 PM
Surr: 2-Fluorobiphenyl	71.6		39-94	%REC	1	06/01/12 11:04 PM
Surr: 2-Fluorophenol	48.2		10-75	%REC	1	06/01/12 11:04 PM
Surr: 4-Terphenyl-d14	81.4		26-119	%REC	1	06/01/12 11:04 PM
Surr: Nitrobenzene-d5	67.6		41-104	%REC	1	06/01/12 11:04 PM
Surr: Phenol-d6	27.2		11-50	%REC	1	06/01/12 11:04 PM
<b>TCLP VOLATILE ORGANICS</b>						
1,1-Dichloroethene	ND		SW8260 20	µg/L	Prep Date: 06/01/12 20	Analyst: AK 06/02/12 02:32 AM
1,2-Dichloroethane	ND		20	µg/L	20	06/02/12 02:32 AM
2-Butanone	ND		200	µg/L	20	06/02/12 02:32 AM
Benzene	ND		20	µg/L	20	06/02/12 02:32 AM
Carbon tetrachloride	ND		20	µg/L	20	06/02/12 02:32 AM
Chlorobenzene	ND		20	µg/L	20	06/02/12 02:32 AM
Chloroform	ND		20	µg/L	20	06/02/12 02:32 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp****Date:** 07-Jun-12**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-B Oily Solids**Lab ID:** 1205842-06**Collection Date:** 05/29/12 01:00 PM**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	ND		20	µg/L	20	06/02/12 02:32 AM
Trichloroethene	ND		20	µg/L	20	06/02/12 02:32 AM
Vinyl chloride	ND		20	µg/L	20	06/02/12 02:32 AM
Surr: 1,2-Dichloroethane-d4	97.1		70-130	%REC	20	06/02/12 02:32 AM
Surr: 4-Bromofluorobenzene	99.4		70-130	%REC	20	06/02/12 02:32 AM
Surr: Dibromofluoromethane	100		70-130	%REC	20	06/02/12 02:32 AM
Surr: Toluene-d8	101		70-130	%REC	20	06/02/12 02:32 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

## ALS Group USA, Corp

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC

**Project:** Detroit Tubular Rivet Site (65000-45)

**Sample ID:** WS-C Inorganic Acids

**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842

**Lab ID:** 1205842-07

**Matrix:** LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>FLASHPOINT, P-M CLOSED-CUP</b>			<b>D93</b>			Analyst: <b>MB</b>
Flashpoint, P-M Closed-cup	>190			°F	1	06/05/12 11:00 AM
<b>PH</b>			<b>SW9040</b>			Analyst: <b>KV</b>
pH	0.920			s.u.	1	05/30/12 11:20 AM
<b>SULFIDE, REACTIVE</b>			<b>SW7.3.4.2</b>			Analyst: <b>NZ</b>
Sulfide, Reactive	720		40	mg/Kg	1	06/05/12 11:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-C Inorganic Acid**Lab ID:** 1205842-08**Collection Date:** 05/29/12 01:00 PM**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		<b>SW7470A</b> 0.010	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>LR</b> 06/01/12 03:50 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	<b>0.19</b>		<b>SW6020A</b> <b>0.050</b>	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>RH</b> 06/01/12 06:03 PM
Barium	ND		0.25	mg/L	1	06/01/12 06:03 PM
Cadmium	<b>0.17</b>		<b>0.010</b>	mg/L	1	06/01/12 06:03 PM
Chromium	<b>2,600</b>	*	<b>20</b>	mg/L	200	06/05/12 04:31 AM
Lead	<b>0.081</b>		<b>0.050</b>	mg/L	1	06/01/12 06:03 PM
Selenium	ND		0.10	mg/L	1	06/01/12 06:03 PM
Silver	ND		0.025	mg/L	1	06/01/12 06:03 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-E Alkaline Solids**Lab ID:** 1205842-09**Collection Date:** 05/29/12 01:00 PM**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>CYANIDE, TOTAL</b>			<b>SW9012A</b>		Prep Date: <b>06/01/12</b>	Analyst: <b>JJG</b>
Cyanide, Total	4.8		2.2	mg/Kg-dry	1	06/01/12 11:49 AM
<b>FLASHPOINT, OPEN-CUP</b>			<b>D92</b>			Analyst: <b>MB</b>
Flashpoint, Open-cup	>200			°F	1	06/06/12 02:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	45		0.050	% of sample	1	05/30/12 01:10 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>KV</b>
pH	10.6			s.u.	1	05/30/12 11:20 AM
<b>SULFIDE, REACTIVE</b>			<b>SW7.3.4.2</b>			Analyst: <b>NZ</b>
Sulfide, Reactive	ND		72	mg/Kg-dry	1	06/05/12 11:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-E Alkaline Solids**Lab ID:** 1205842-10**Collection Date:** 05/29/12 01:00 PM**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		<b>SW7470A</b> 0.0020	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>LR</b> 06/01/12 03:52 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	ND		<b>SW6020A</b> 0.010	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>RH</b> 06/01/12 08:28 PM
Barium	ND		0.050	mg/L	1	06/01/12 08:28 PM
Cadmium	ND		0.0020	mg/L	1	06/01/12 08:28 PM
<b>Chromium</b>	<b>0.21</b>		<b>0.020</b>	<b>mg/L</b>	1	06/01/12 08:28 PM
Lead	ND		0.010	mg/L	1	06/01/12 08:28 PM
<b>Selenium</b>	<b>0.038</b>		<b>0.020</b>	<b>mg/L</b>	1	06/01/12 08:28 PM
Silver	ND		0.0050	mg/L	1	06/01/12 08:28 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-F Non Haz Liquids**Lab ID:** 1205842-11**Collection Date:** 05/29/12 01:00 PM**Matrix:** LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>CYANIDE, TOTAL</b>			<b>SW9012A</b>		Prep Date: <b>05/31/12</b>	Analyst: <b>JJG</b>
Cyanide, Total	1.1		0.025	mg/L	5	05/31/12 03:31 PM
<b>CYANIDE, AMENABLE</b>			<b>SW9012A</b>		Prep Date: <b>05/31/12</b>	Analyst: <b>JJG</b>
Cyanide, Amenable	ND		0.025	mg/L	5	05/31/12 03:31 PM
<b>CYANIDE, REACTIVE</b>			<b>SW7.3.3.2</b>			Analyst: <b>NZ</b>
Cyanide, Reactive	ND		40	mg/Kg	1	05/29/12 10:45 AM
<b>FLASHPOINT, P-M CLOSED-CUP</b>			<b>D93</b>			Analyst: <b>MB</b>
Flashpoint, P-M Closed-cup	124			°F	1	06/05/12 11:00 AM
<b>PH</b>			<b>SW9040</b>			Analyst: <b>KV</b>
pH	9.24			s.u.	1	05/30/12 11:20 AM
<b>SULFIDE, REACTIVE</b>			<b>SW7.3.4.2</b>			Analyst: <b>NZ</b>
Sulfide, Reactive	ND		40	mg/Kg	1	05/29/12 10:45 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC

**Project:** Detroit Tubular Rivet Site (65000-45)

**Sample ID:** WS-F Non Haz Liquids

**Collection Date:** 05/29/12 01:00 PM

**Work Order:** 1205842

**Lab ID:** 1205842-12

**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		SW7470A 0.0020	mg/L	Prep Date: 06/01/12 1	Analyst: LR 06/01/12 03:54 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	ND		SW6020A 0.010	mg/L	Prep Date: 06/01/12 1	Analyst: RH 06/01/12 06:08 PM
Barium	0.13		0.050	mg/L	1	06/01/12 06:08 PM
Cadmium	0.0039		0.0020	mg/L	1	06/01/12 06:08 PM
Chromium	0.35		0.020	mg/L	1	06/05/12 04:36 AM
Lead	ND		0.010	mg/L	1	06/01/12 06:08 PM
Nickel	ND		0.25	mg/L	1	06/01/12 06:08 PM
Selenium	0.053		0.020	mg/L	1	06/01/12 06:08 PM
Silver	0.028		0.0050	mg/L	1	06/01/12 06:08 PM
Zinc	7.9		0.10	mg/L	1	06/01/12 06:08 PM
<b>TCLP SEMI-VOLATILE ORGANICS</b>						
1,4-Dichlorobenzene	ND		SW8270 4,000	µg/L	Prep Date: 06/01/12 10	Analyst: HL 06/04/12 03:17 PM
2,4,5-Trichlorophenol	ND		4,000	µg/L	10	06/04/12 03:17 PM
2,4,6-Trichlorophenol	ND		4,000	µg/L	10	06/04/12 03:17 PM
2,4-Dinitrotoluene	ND		4,000	µg/L	10	06/04/12 03:17 PM
Hexachloro-1,3-butadiene	ND		4,000	µg/L	10	06/04/12 03:17 PM
Hexachlorobenzene	ND		4,000	µg/L	10	06/04/12 03:17 PM
Hexachloroethane	ND		4,000	µg/L	10	06/04/12 03:17 PM
m-Cresol	ND		4,000	µg/L	10	06/04/12 03:17 PM
Nitrobenzene	ND		4,000	µg/L	10	06/04/12 03:17 PM
o-Cresol	ND		4,000	µg/L	10	06/04/12 03:17 PM
p-Cresol	ND		4,000	µg/L	10	06/04/12 03:17 PM
Pentachlorophenol	ND		16,000	µg/L	10	06/04/12 03:17 PM
Pyridine	ND		16,000	µg/L	10	06/04/12 03:17 PM
Surr: 2,4,6-Tribromophenol	154	S	21-125	%REC	10	06/04/12 03:17 PM
Surr: 2-Fluorobiphenyl	70.4		39-94	%REC	10	06/04/12 03:17 PM
Surr: 2-Fluorophenol	36.0		10-75	%REC	10	06/04/12 03:17 PM
Surr: 4-Terphenyl-d14	64.8		26-119	%REC	10	06/04/12 03:17 PM
Surr: Nitrobenzene-d5	58.4		41-104	%REC	10	06/04/12 03:17 PM
Surr: Phenol-d6	0	S	11-50	%REC	10	06/04/12 03:17 PM
<b>TCLP VOLATILE ORGANICS</b>						
1,1-Dichloroethene	ND		SW8260 20	µg/L	Prep Date: 06/01/12 20	Analyst: BG 06/06/12 02:26 PM
1,2-Dichloroethane	ND		20	µg/L	20	06/06/12 02:26 PM
2-Butanone	ND		200	µg/L	20	06/06/12 02:26 PM
Benzene	ND		20	µg/L	20	06/06/12 02:26 PM
Carbon tetrachloride	ND		20	µg/L	20	06/06/12 02:26 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp****Date:** 07-Jun-12**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-F Non Haz Liquids**Lab ID:** 1205842-12**Collection Date:** 05/29/12 01:00 PM**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND		20	µg/L	20	06/06/12 02:26 PM
Chloroform	ND		20	µg/L	20	06/06/12 02:26 PM
Tetrachloroethene	ND		20	µg/L	20	06/06/12 02:26 PM
Trichloroethene	ND		20	µg/L	20	06/06/12 02:26 PM
Vinyl chloride	ND		20	µg/L	20	06/06/12 02:26 PM
Surr: 1,2-Dichloroethane-d4	105		70-130	%REC	20	06/06/12 02:26 PM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	20	06/06/12 02:26 PM
Surr: Dibromofluoromethane	102		70-130	%REC	20	06/06/12 02:26 PM
Surr: Toluene-d8	101		70-130	%REC	20	06/06/12 02:26 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-I Trench Liquids**Lab ID:** 1205842-13**Collection Date:** 05/29/12 01:00 PM**Matrix:** LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>CYANIDE, TOTAL</b>			<b>SW9012A</b>		Prep Date: <b>05/31/12</b>	Analyst: <b>JJG</b>
Cyanide, Total	0.27		0.0050	mg/L	1	05/31/12 03:31 PM
<b>CYANIDE, AMENABLE</b>			<b>SW9012A</b>		Prep Date: <b>05/31/12</b>	Analyst: <b>JJG</b>
Cyanide, Amenable	0.076		0.0050	mg/L	1	05/31/12 03:31 PM
<b>CYANIDE, REACTIVE</b>			<b>SW7.3.3.2</b>			Analyst: <b>NZ</b>
Cyanide, Reactive	ND		40	mg/Kg	1	05/29/12 10:45 AM
<b>FLASHPOINT, P-M CLOSED-CUP</b>			<b>D93</b>			Analyst: <b>MB</b>
Flashpoint, P-M Closed-cup	>200			°F	1	06/05/12 11:00 AM
<b>PH</b>			<b>SW9040</b>			Analyst: <b>KV</b>
pH	9.72			s.u.	1	05/30/12 11:20 AM
<b>SULFIDE, REACTIVE</b>			<b>SW7.3.4.2</b>			Analyst: <b>NZ</b>
Sulfide, Reactive	ND		40	mg/Kg	1	05/29/12 10:45 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-I Trench Liquids**Lab ID:** 1205842-14**Collection Date:** 05/29/12 01:00 PM**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		<b>SW7470A</b> 0.0020	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>LR</b> 06/01/12 04:01 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	ND		<b>SW6020A</b> 0.010	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>RH</b> 06/01/12 06:13 PM
<b>Barium</b>	<b>0.053</b>		<b>0.050</b>	<b>mg/L</b>	1	06/01/12 06:13 PM
<b>Cadmium</b>	<b>0.0025</b>		<b>0.0020</b>	<b>mg/L</b>	1	06/01/12 06:13 PM
<b>Chromium</b>	<b>0.61</b>		<b>0.020</b>	<b>mg/L</b>	1	06/01/12 06:13 PM
Lead	ND		0.010	mg/L	1	06/01/12 06:13 PM
Nickel	ND		0.25	mg/L	1	06/01/12 06:13 PM
Selenium	ND		0.020	mg/L	1	06/01/12 06:13 PM
Silver	ND		0.0050	mg/L	1	06/01/12 06:13 PM
<b>Zinc</b>	<b>1.7</b>		<b>0.10</b>	<b>mg/L</b>	1	06/01/12 06:13 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-J Plating Sludge**Lab ID:** 1205842-15**Collection Date:** 05/29/12 01:00 PM**Matrix:** SLUDGE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>CYANIDE, TOTAL</b>			<b>SW9012A</b>		Prep Date: <b>06/01/12</b>	Analyst: <b>JJG</b>
Cyanide, Total	ND		13	mg/Kg-dry	5	06/01/12 11:49 AM
<b>CYANIDE, AMENABLE</b>			<b>SW9012A</b>		Prep Date: <b>06/01/12</b>	Analyst: <b>JJG</b>
Cyanide, Amenable	ND		0.52	mg/Kg-dry	1	06/01/12 11:49 AM
<b>CYANIDE, REACTIVE</b>			<b>SW7.3.3.2</b>			Analyst: <b>NZ</b>
Cyanide, Reactive	ND		88	mg/Kg-dry	1	06/05/12 11:30 AM
<b>FLASHPOINT, OPEN-CUP</b>			<b>D92</b>			Analyst: <b>MB</b>
Flashpoint, Open-cup	>200			°F	1	06/06/12 02:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	54		0.050	% of sample	1	05/30/12 01:10 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>KV</b>
pH	10.9			s.u.	1	05/30/12 11:20 AM
<b>SULFIDE, REACTIVE</b>			<b>SW7.3.4.2</b>			Analyst: <b>NZ</b>
Sulfide, Reactive	ND		88	mg/Kg-dry	1	06/05/12 11:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-J Plating Sludge**Lab ID:** 1205842-16**Collection Date:** 05/29/12 01:00 PM**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		<b>SW7470A</b> 0.0020	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>LR</b> 06/01/12 04:03 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	<b>0.063</b>		<b>SW6020A</b> <b>0.010</b>	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>RH</b> 06/01/12 06:18 PM
Barium	<b>0.53</b>		<b>0.050</b>	mg/L	1	06/01/12 06:18 PM
Cadmium	<b>0.025</b>		<b>0.0020</b>	mg/L	1	06/01/12 06:18 PM
Chromium	<b>0.047</b>		<b>0.020</b>	mg/L	1	06/01/12 06:18 PM
Lead	ND		0.010	mg/L	1	06/01/12 06:18 PM
Nickel	ND		0.25	mg/L	1	06/01/12 06:18 PM
Selenium	ND		0.020	mg/L	1	06/01/12 06:18 PM
Silver	ND		0.0050	mg/L	1	06/01/12 06:18 PM
Zinc	<b>3,400</b>		<b>100</b>	mg/L	1000	06/05/12 05:54 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-K F006 Dumpster**Lab ID:** 1205842-17**Collection Date:** 05/29/12 01:00 PM**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>CYANIDE, TOTAL</b>			<b>SW9012A</b>		Prep Date: <b>06/01/12</b>	Analyst: <b>JJG</b>
Cyanide, Total	20		3.4	mg/Kg-dry	2	06/01/12 11:49 AM
<b>CYANIDE, AMENABLE</b>			<b>SW9012A</b>		Prep Date: <b>06/01/12</b>	Analyst: <b>JJG</b>
Cyanide, Amenable	ND		0.34	mg/Kg-dry	1	06/01/12 11:49 AM
<b>CYANIDE, REACTIVE</b>			<b>SW7.3.3.2</b>			Analyst: <b>NZ</b>
Cyanide, Reactive	ND		57	mg/Kg-dry	1	06/05/12 11:30 AM
<b>FLASHPOINT, OPEN-CUP</b>			<b>D92</b>			Analyst: <b>MB</b>
Flashpoint, Open-cup	>200			°F	1	06/06/12 02:00 PM
<b>MOISTURE</b>			<b>A2540 G</b>			Analyst: <b>CG</b>
Moisture	30		0.050	% of sample	1	05/30/12 01:10 PM
<b>PH</b>			<b>SW9045D</b>			Analyst: <b>KV</b>
pH	8.28			s.u.	1	05/30/12 11:20 AM
<b>SULFIDE, REACTIVE</b>			<b>SW7.3.4.2</b>			Analyst: <b>NZ</b>
Sulfide, Reactive	ND		57	mg/Kg-dry	1	06/05/12 11:30 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 07-Jun-12

**Client:** LATA-Kemron Remediation Services, LLC**Project:** Detroit Tubular Rivet Site (65000-45)**Work Order:** 1205842**Sample ID:** WS-K F006 Dumpster**Lab ID:** 1205842-18**Collection Date:** 05/29/12 01:00 PM**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP MERCURY BY CVAA</b>						
Mercury	ND		<b>SW7470A</b> 0.0020	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>LR</b> 06/01/12 04:05 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>						
Arsenic	<b>0.080</b>		<b>SW6020A</b> <b>0.010</b>	mg/L	Prep Date: <b>06/01/12</b> 1	Analyst: <b>RH</b> 06/01/12 06:23 PM
Barium	<b>0.43</b>		<b>0.050</b>	mg/L	1	06/01/12 06:23 PM
Cadmium	<b>0.43</b>		<b>0.0020</b>	mg/L	1	06/01/12 06:23 PM
Chromium	<b>0.41</b>		<b>0.020</b>	mg/L	1	06/01/12 06:23 PM
Lead	ND		0.010	mg/L	1	06/01/12 06:23 PM
Nickel	<b>1.1</b>		<b>0.25</b>	mg/L	1	06/01/12 06:23 PM
Selenium	ND		0.020	mg/L	1	06/01/12 06:23 PM
Silver	ND		0.0050	mg/L	1	06/01/12 06:23 PM
Zinc	<b>4,000</b>		<b>100</b>	mg/L	1000	06/05/12 05:59 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

**QC BATCH REPORT**

Batch ID: **41361** Instrument ID **GC4** Method: **SW8082**

<b>MBLK</b>		Sample ID: <b>PBLK01-41361-41361</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>05/30/12 12:22 PM</b>		
Client ID:		Run ID: <b>GC4_120530A</b>				SeqNo: <b>1987714</b>		Prep Date: <b>05/30/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	1.0								
Aroclor 1221	ND	1.0								
Aroclor 1232	ND	1.0								
Aroclor 1242	ND	1.0								
Aroclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
Aroclor 1260	ND	1.0								
PCBs, Total	ND	1.0								
Surr: Decachlorobiphenyl	0.71	0	1	0	71	50-130	0			

<b>LCS</b>		Sample ID: <b>PLCSO1-41361-41361</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>05/30/12 12:42 PM</b>		
Client ID:		Run ID: <b>GC4_120530A</b>				SeqNo: <b>1987716</b>		Prep Date: <b>05/30/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	16.81	1.0	25	0	67.2	50-130	0			
Aroclor 1260	17.28	1.0	25	0	69.1	50-130	0			
Surr: Decachlorobiphenyl	0.76	0	1	0	76	50-130	0			

<b>LCSD</b>		Sample ID: <b>PLCSDO1-41361-41361</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>05/30/12 01:02 PM</b>		
Client ID:		Run ID: <b>GC4_120530A</b>				SeqNo: <b>1987715</b>		Prep Date: <b>05/30/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	16.62	1.0	25	0	66.5	50-130	16.81	1.14	25	
Aroclor 1260	17.95	1.0	25	0	71.8	50-130	17.28	3.8	25	
Surr: Decachlorobiphenyl	0.76	0	1	0	76	50-130	0.76	0	25	

The following samples were analyzed in this batch: 1205842-01A

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41399** Instrument ID **GC4** Method: **SW8082**

<b>MBLK</b>		Sample ID: <b>PBLKS1-41399-41399</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>06/04/12 03:02 PM</b>		
Client ID:		Run ID: <b>GC4_120604A</b>				SeqNo: <b>1990456</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	40								
Aroclor 1221	ND	40								
Aroclor 1232	ND	40								
Aroclor 1242	ND	40								
Aroclor 1248	ND	40								
Aroclor 1254	ND	40								
Aroclor 1260	ND	40								
PCBs, Total	ND	40								
<i>Surr: Tetrachloro-m-xylene</i>	33.33	0	33.3	0	100	45-124	0			
<i>Surr: Decachlorobiphenyl</i>	24.33	0	33.3	0	73.1	40-140	0			

<b>LCS</b>		Sample ID: <b>PLCSS1-41399-41399</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>06/04/12 03:22 PM</b>		
Client ID:		Run ID: <b>GC4_120604A</b>				SeqNo: <b>1990457</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	880.7	40	833	0	106	50-130	0			
Aroclor 1260	766.3	40	833	0	92	50-130	0			
<i>Surr: Tetrachloro-m-xylene</i>	31.67	0	33.3	0	95.1	45-124	0			
<i>Surr: Decachlorobiphenyl</i>	26.33	0	33.3	0	79.1	40-140	0			

<b>MS</b>		Sample ID: <b>1205842-05A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>06/04/12 04:02 PM</b>		
Client ID: <b>WS-B Oily Solids</b>		Run ID: <b>GC4_120604A</b>				SeqNo: <b>1990682</b>		Prep Date: <b>06/01/12</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	555.7	400	831.6	0	66.8	40-140	0			
Aroclor 1260	599	400	831.6	0	72	40-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	29.95	0	33.24	0	90.1	45-124	0			
<i>Surr: Decachlorobiphenyl</i>	39.93	0	33.24	0	120	40-140	0			

<b>MSD</b>		Sample ID: <b>1205842-05A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>06/04/12 04:22 PM</b>		
Client ID: <b>WS-B Oily Solids</b>		Run ID: <b>GC4_120604A</b>				SeqNo: <b>1990683</b>		Prep Date: <b>06/01/12</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	519.1	390	810.7	0	64	40-140	555.7	6.82	50	
Aroclor 1260	541.8	390	810.7	0	66.8	40-140	599	10	50	
<i>Surr: Tetrachloro-m-xylene</i>	29.2	0	32.41	0	90.1	45-124	29.95	2.54	50	
<i>Surr: Decachlorobiphenyl</i>	42.17	0	32.41	0	130	40-140	39.93	5.46	50	

The following samples were analyzed in this batch: 1205842-05A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41398**      Instrument ID **HG1**      Method: **SW7470**

<b>MBLK</b>		Sample ID: <b>MBLK-41398-41398</b>				Units: <b>mg/L</b>		Analysis Date: <b>06/01/12 03:07 PM</b>		
Client ID:		Run ID: <b>HG1_120601A</b>				SeqNo: <b>1989503</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000037	0.00020								J

<b>LCS</b>		Sample ID: <b>LCS-41398-41398</b>				Units: <b>mg/L</b>		Analysis Date: <b>06/01/12 03:09 PM</b>		
Client ID:		Run ID: <b>HG1_120601A</b>				SeqNo: <b>1989504</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001949	0.00020	0.002	0	97.4	80-120	0			

<b>MS</b>		Sample ID: <b>1205925-01BMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>06/01/12 03:18 PM</b>		
Client ID:		Run ID: <b>HG1_120601A</b>				SeqNo: <b>1989508</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00183	0.00020	0.002	0.000035	89.8	75-125	0			

<b>MSD</b>		Sample ID: <b>1205925-01BMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>06/01/12 03:20 PM</b>		
Client ID:		Run ID: <b>HG1_120601A</b>				SeqNo: <b>1989509</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001797	0.00020	0.002	0.000035	88.1	75-125	0.00183	1.82	20	

The following samples were analyzed in this batch:

1205842-02A	1205842-04A	1205842-06A
1205842-08A	1205842-10A	1205842-12A
1205842-14A	1205842-16A	1205842-18A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41396** Instrument ID **ICPMS2** Method: **SW6020A**

<b>MBLK</b>		Sample ID: <b>MBLK-41396-41396</b>				Units: <b>mg/L</b>		Analysis Date: <b>06/01/12 05:24 PM</b>		
Client ID:		Run ID: <b>ICPMS2_120601A</b>				SeqNo: <b>1989926</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Cadmium	ND	0.0020								
Chromium	ND	0.0050								
Lead	ND	0.0050								
Nickel	ND	0.0050								
Selenium	0.0005057	0.0050								J
Silver	ND	0.0050								
Zinc	ND	0.010								

<b>LCS</b>		Sample ID: <b>LCS-41396-41396</b>				Units: <b>mg/L</b>		Analysis Date: <b>06/01/12 05:29 PM</b>		
Client ID:		Run ID: <b>ICPMS2_120601A</b>				SeqNo: <b>1989927</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09543	0.0050	0.1	0	95.4	80-120	0			
Barium	0.09472	0.0050	0.1	0	94.7	80-120	0			
Cadmium	0.09458	0.0020	0.1	0	94.6	80-120	0			
Chromium	0.09996	0.0050	0.1	0	100	80-120	0			
Lead	0.09179	0.0050	0.1	0	91.8	80-120	0			
Nickel	0.09741	0.0050	0.1	0	97.4	80-120	0			
Selenium	0.088	0.0050	0.1	0	88	80-120	0			
Silver	0.08671	0.0050	0.1	0	86.7	80-120	0			
Zinc	0.09021	0.010	0.1	0	90.2	80-120	0			

<b>MS</b>		Sample ID: <b>1205925-02BMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>06/01/12 07:13 PM</b>		
Client ID:		Run ID: <b>ICPMS2_120601A</b>				SeqNo: <b>1989948</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09563	0.0050	0.1	0.0001734	95.5	80-120	0			
Barium	0.2084	0.0050	0.1	0.1211	87.3	80-120	0			
Cadmium	0.08939	0.0020	0.1	0.000246	89.1	80-120	0			
Chromium	0.09884	0.0050	0.1	0.001987	96.9	80-120	0			
Lead	0.0894	0.0050	0.1	0.00003781	89.4	80-120	0			
Selenium	0.09064	0.0050	0.1	0.005953	84.7	80-120	0			
Silver	0.07604	0.0050	0.1	-6.911E-06	76	80-120	0			S

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41396** Instrument ID **ICPMS2** Method: **SW6020A**

MS Sample ID: 1205925-02BMS				Units: mg/L		Analysis Date: 06/05/12 06:40 AM				
Client ID:		Run ID: ICPMS2_120604A		SeqNo: 1991082		Prep Date: 06/01/12		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nickel	0.09403	0.0050	0.1	0.006948	87.1	80-120	0			
Zinc	0.09573	0.010	0.1	0.0119	83.8	80-120	0			

MSD Sample ID: 1205925-02BMSD				Units: mg/L		Analysis Date: 06/01/12 07:17 PM				
Client ID:		Run ID: ICPMS2_120601A		SeqNo: 1989949		Prep Date: 06/01/12		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09868	0.0050	0.1	0.0001734	98.5	80-120	0.09563	3.14	20	
Barium	0.2118	0.0050	0.1	0.1211	90.7	80-120	0.2084	1.62	20	
Cadmium	0.09262	0.0020	0.1	0.000246	92.4	80-120	0.08939	3.55	20	
Chromium	0.1028	0.0050	0.1	0.001987	101	80-120	0.09884	3.93	20	
Lead	0.0924	0.0050	0.1	0.00003781	92.4	80-120	0.0894	3.3	20	
Selenium	0.09387	0.0050	0.1	0.005953	87.9	80-120	0.09064	3.5	20	
Silver	0.07906	0.0050	0.1	-6.911E-06	79.1	80-120	0.07604	3.89	20	S

MSD Sample ID: 1205925-02BMSD				Units: mg/L		Analysis Date: 06/05/12 06:59 AM				
Client ID:		Run ID: ICPMS2_120604A		SeqNo: 1991092		Prep Date: 06/01/12		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nickel	0.09728	0.0050	0.1	0.006948	90.3	80-120	0.09403	3.4	20	
Zinc	0.09938	0.010	0.1	0.0119	87.5	80-120	0.09573	3.74	20	

The following samples were analyzed in this batch:

1205842-02A	1205842-04A	1205842-06A
1205842-08A	1205842-10A	1205842-12A
1205842-14A	1205842-16A	1205842-18A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41386** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: <b>SBLKW1-41386-41386</b>				Units: <b>µg/L</b>		Analysis Date: <b>06/01/12 05:53 PM</b>		
Client ID:		Run ID: <b>SVMS5_120601A</b>				SeqNo: <b>1990173</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Hexachloro-1,3-butadiene	ND	5.0								
Hexachlorobenzene	ND	5.0								
Hexachloroethane	ND	5.0								
m-Cresol	ND	5.0								
Nitrobenzene	ND	5.0								
o-Cresol	ND	5.0								
p-Cresol	ND	5.0								
Pentachlorophenol	ND	20								
Pyridine	ND	20								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>32.81</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>65.6</i>	<i>21-125</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>30.06</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>60.1</i>	<i>36-94</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>21.42</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>42.8</i>	<i>10-75</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>47.47</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>94.9</i>	<i>26-119</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>27.03</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>54.1</i>	<i>41-104</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>11.42</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>22.8</i>	<i>11-50</i>	<i>0</i>			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41386** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: <b>SBLKW1-41386-41386</b>				Units: <b>µg/L</b>		Analysis Date: <b>06/01/12 05:53 PM</b>		
Client ID:		Run ID: <b>SVMS5_120601A</b>				SeqNo: <b>1990180</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Hexachloro-1,3-butadiene	ND	5.0								
Hexachlorobenzene	ND	5.0								
Hexachloroethane	ND	5.0								
m-Cresol	ND	5.0								
Nitrobenzene	ND	5.0								
o-Cresol	ND	5.0								
p-Cresol	ND	5.0								
Pentachlorophenol	ND	20								
Pyridine	ND	20								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>32.81</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>65.6</i>	<i>21-125</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>30.06</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>60.1</i>	<i>36-94</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>21.42</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>42.8</i>	<i>10-75</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>47.47</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>94.9</i>	<i>26-119</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>27.03</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>54.1</i>	<i>41-104</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>11.42</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>22.8</i>	<i>11-50</i>	<i>0</i>			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41386** Instrument ID **SVMS5** Method: **SW8270**

LCS Sample ID: <b>SLCSW1-41386-41386</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/01/12 05:19 PM</b>			
Client ID:		Run ID: <b>SVMS5_120601A</b>		SeqNo: <b>1990172</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	10.39	5.0	20	0	52	30-110	0			
2,4,5-Trichlorophenol	11.39	5.0	20	0	57	50-110	0			
2,4,6-Trichlorophenol	10.29	5.0	20	0	51.4	50-115	0			
2,4-Dinitrotoluene	10.63	5.0	20	0	53.2	50-120	0			
Hexachloro-1,3-butadiene	9.69	5.0	20	0	48.4	25-105	0			
Hexachlorobenzene	10.83	5.0	20	0	54.2	50-110	0			
Hexachloroethane	10.12	5.0	20	0	50.6	30-95	0			
m-Cresol	8.34	5.0	20	0	41.7	30-110	0			
Nitrobenzene	10.26	5.0	20	0	51.3	45-110	0			
o-Cresol	9.52	5.0	20	0	47.6	40-110	0			
p-Cresol	8.34	5.0	20	0	41.7	30-110	0			
Pentachlorophenol	10.31	20	20	0	51.6	40-115	0			J
Pyridine	6.59	20	20	0	33	10-71	0			J
<i>Surr: 2,4,6-Tribromophenol</i>	31.33	0	50	0	62.7	21-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	26.98	0	50	0	54	36-94	0			
<i>Surr: 2-Fluorophenol</i>	18.11	0	50	0	36.2	10-75	0			
<i>Surr: 4-Terphenyl-d14</i>	41.94	0	50	0	83.9	26-119	0			
<i>Surr: Nitrobenzene-d5</i>	25	0	50	0	50	41-104	0			
<i>Surr: Phenol-d6</i>	10.02	0	50	0	20	11-50	0			

LCS Sample ID: <b>SLCSW1-41386-41386</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/01/12 05:19 PM</b>			
Client ID:		Run ID: <b>SVMS5_120601A</b>		SeqNo: <b>1990179</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	10.39	5.0	20	0	52	30-100	0			
2,4,5-Trichlorophenol	11.39	5.0	20	0	57	50-110	0			
2,4,6-Trichlorophenol	10.29	5.0	20	0	51.4	50-115	0			
2,4-Dinitrotoluene	10.63	5.0	20	0	53.2	50-120	0			
Hexachlorobenzene	10.83	5.0	20	0	54.2	50-110	0			
Hexachloroethane	10.12	5.0	20	0	50.6	30-95	0			
m-Cresol	8.34	5.0	20	0	41.7	30-110	0			
Nitrobenzene	10.26	5.0	20	0	51.3	45-110	0			
o-Cresol	9.52	5.0	20	0	47.6	30-110	0			
p-Cresol	8.34	5.0	20	0	41.7	30-110	0			
Pentachlorophenol	10.31	20	20	0	51.6	40-115	0			J
<i>Surr: 2,4,6-Tribromophenol</i>	31.33	0	50	0	62.7	21-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	26.98	0	50	0	54	36-94	0			
<i>Surr: 2-Fluorophenol</i>	18.11	0	50	0	36.2	10-75	0			
<i>Surr: 4-Terphenyl-d14</i>	41.94	0	50	0	83.9	26-119	0			
<i>Surr: Nitrobenzene-d5</i>	25	0	50	0	50	41-104	0			
<i>Surr: Phenol-d6</i>	10.02	0	50	0	20	11-50	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41386**      Instrument ID **SVMS5**      Method: **SW8270**

MS Sample ID: 1205918-01A MS				Units: µg/L			Analysis Date: 06/01/12 06:28 PM			
Client ID:		Run ID: SVMS5_120601A		SeqNo: 1990174		Prep Date: 06/01/12		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	110.1	50	200	0	55	30-110	0			
2,4,5-Trichlorophenol	124.9	50	200	0	62.4	50-110	0			
2,4,6-Trichlorophenol	109	50	200	0	54.5	50-115	0			
2,4-Dinitrotoluene	117	50	200	0	58.5	50-120	0			
Hexachloro-1,3-butadiene	106.2	50	200	0	53.1	25-105	0			
Hexachlorobenzene	120.1	50	200	0	60	50-110	0			
Hexachloroethane	108	50	200	0	54	30-95	0			
m-Cresol	87.9	50	200	0	44	30-110	0			
Nitrobenzene	110.4	50	200	0	55.2	45-110	0			
o-Cresol	100.6	50	200	0	50.3	40-110	0			
p-Cresol	87.9	50	200	0	44	30-110	0			
Pentachlorophenol	119.9	200	200	0	60	40-115	0			J
Pyridine	97.4	200	200	0	48.7	10-80	0			J
Surr: 2,4,6-Tribromophenol	345.2	0	500	0	69	21-125	0			
Surr: 2-Fluorobiphenyl	298.2	0	500	0	59.6	36-94	0			
Surr: 2-Fluorophenol	186.4	0	500	0	37.3	10-75	0			
Surr: 4-Terphenyl-d14	459.1	0	500	0	91.8	26-119	0			
Surr: Nitrobenzene-d5	264.1	0	500	0	52.8	41-104	0			
Surr: Phenol-d6	98.8	0	500	0	19.8	11-50	0			

MS Sample ID: 1205918-01A MS				Units: µg/L			Analysis Date: 06/01/12 06:28 PM			
Client ID:		Run ID: SVMS5_120601A		SeqNo: 1990181		Prep Date: 06/01/12		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	110.1	50	200	0	55	30-100	0			
2,4,5-Trichlorophenol	124.9	50	200	0	62.4	50-110	0			
2,4,6-Trichlorophenol	109	50	200	0	54.5	50-115	0			
2,4-Dinitrotoluene	117	50	200	0	58.5	50-120	0			
Hexachlorobenzene	120.1	50	200	0	60	50-110	0			
Hexachloroethane	108	50	200	0	54	30-95	0			
Nitrobenzene	110.4	50	200	0	55.2	45-110	0			
Pentachlorophenol	119.9	200	200	0	60	40-115	0			J
Surr: 2,4,6-Tribromophenol	345.2	0	500	0	69	21-125	0			
Surr: 2-Fluorobiphenyl	298.2	0	500	0	59.6	36-94	0			
Surr: 2-Fluorophenol	186.4	0	500	0	37.3	10-75	0			
Surr: 4-Terphenyl-d14	459.1	0	500	0	91.8	26-119	0			
Surr: Nitrobenzene-d5	264.1	0	500	0	52.8	41-104	0			
Surr: Phenol-d6	98.8	0	500	0	19.8	11-50	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: LATA-Kemron Remediation Services, LLC  
 Work Order: 1205842  
 Project: Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41386** Instrument ID **SVMS5** Method: **SW8270**

MSD Sample ID: <b>1205918-01A MSD</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/01/12 07:03 PM</b>			
Client ID:		Run ID: <b>SVMS5_120601A</b>		SeqNo: <b>1990175</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	101.9	50	200	0	51	30-110	110.1	7.74	30	
2,4,5-Trichlorophenol	113.3	50	200	0	56.6	50-110	124.9	9.74	30	
2,4,6-Trichlorophenol	102.2	50	200	0	51.1	50-115	109	6.44	30	
2,4-Dinitrotoluene	103	50	200	0	51.5	50-120	117	12.7	30	
Hexachloro-1,3-butadiene	94.3	50	200	0	47.2	25-105	106.2	11.9	30	
Hexachlorobenzene	106.8	50	200	0	53.4	50-110	120.1	11.7	30	
Hexachloroethane	100.6	50	200	0	50.3	30-95	108	7.09	30	
m-Cresol	88.6	50	200	0	44.3	30-110	87.9	0.793	30	
Nitrobenzene	101.6	50	200	0	50.8	45-110	110.4	8.3	30	
o-Cresol	99.9	50	200	0	50	40-110	100.6	0.698	30	
p-Cresol	88.6	50	200	0	44.3	30-110	87.9	0.793	30	
Pentachlorophenol	108	200	200	0	54	40-115	119.9	0	30	J
Pyridine	68.2	200	200	0	34.1	10-80	97.4	0	30	J
<i>Surr: 2,4,6-Tribromophenol</i>	291.6	0	500	0	58.3	21-125	345.2	16.8	0	
<i>Surr: 2-Fluorobiphenyl</i>	276.5	0	500	0	55.3	36-94	298.2	7.55	0	
<i>Surr: 2-Fluorophenol</i>	194.8	0	500	0	39	10-75	186.4	4.41	0	
<i>Surr: 4-Terphenyl-d14</i>	282.7	0	500	0	56.5	26-119	459.1	47.6	0	
<i>Surr: Nitrobenzene-d5</i>	243	0	500	0	48.6	41-104	264.1	8.32	0	
<i>Surr: Phenol-d6</i>	108.5	0	500	0	21.7	11-50	98.8	9.36	0	

MSD Sample ID: <b>1205918-01A MSD</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/01/12 07:03 PM</b>			
Client ID:		Run ID: <b>SVMS5_120601A</b>		SeqNo: <b>1990182</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	101.9	50	200	0	51	30-100	110.1	7.74	30	
2,4,5-Trichlorophenol	113.3	50	200	0	56.6	50-110	124.9	9.74	30	
2,4,6-Trichlorophenol	102.2	50	200	0	51.1	50-115	109	6.44	30	
2,4-Dinitrotoluene	103	50	200	0	51.5	50-120	117	12.7	30	
Hexachlorobenzene	106.8	50	200	0	53.4	50-110	120.1	11.7	30	
Hexachloroethane	100.6	50	200	0	50.3	30-95	108	7.09	30	
Nitrobenzene	101.6	50	200	0	50.8	45-110	110.4	8.3	30	
Pentachlorophenol	108	200	200	0	54	40-115	119.9	0	30	J
<i>Surr: 2,4,6-Tribromophenol</i>	291.6	0	500	0	58.3	21-125	345.2	16.8	40	
<i>Surr: 2-Fluorobiphenyl</i>	276.5	0	500	0	55.3	36-94	298.2	7.55	40	
<i>Surr: 2-Fluorophenol</i>	194.8	0	500	0	39	10-75	186.4	4.41	40	
<i>Surr: 4-Terphenyl-d14</i>	282.7	0	500	0	56.5	26-119	459.1	47.6	40	R
<i>Surr: Nitrobenzene-d5</i>	243	0	500	0	48.6	41-104	264.1	8.32	40	
<i>Surr: Phenol-d6</i>	108.5	0	500	0	21.7	11-50	98.8	9.36	40	

The following samples were analyzed in this batch:

1205842-02A	1205842-04A	1205842-06A
1205842-12A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105498** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: <b>VBLKW1-120601-R105498</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/01/12 08:22 PM</b>			
Client ID:		Run ID: <b>VMS8_120601A</b>		SeqNo: <b>1989977</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
2-Butanone	ND	5.0								
Benzene	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroform	ND	1.0								
Tetrachloroethene	ND	2.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>										
	19.54	0	20	0	97.7	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>										
	20.14	0	20	0	101	75-120	0			
<i>Surr: Dibromofluoromethane</i>										
	19.75	0	20	0	98.8	85-115	0			
<i>Surr: Toluene-d8</i>										
	20.08	0	20	0	100	85-120	0			

LCS Sample ID: <b>VLCSW1-120601-R105498</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/01/12 07:05 PM</b>			
Client ID:		Run ID: <b>VMS8_120601A</b>		SeqNo: <b>1989976</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.98	1.0	20	0	105	70-130	0			
1,2-Dichloroethane	19.6	1.0	20	0	98	70-130	0			
2-Butanone	21.21	5.0	20	0	106	30-150	0			
Benzene	19.77	1.0	20	0	98.8	80-120	0			
Carbon tetrachloride	20.93	1.0	20	0	105	65-140	0			
Chlorobenzene	19.4	1.0	20	0	97	80-120	0			
Chloroform	19.29	1.0	20	0	96.4	65-135	0			
Tetrachloroethene	20.58	2.0	20	0	103	45-150	0			
Trichloroethene	20.08	1.0	20	0	100	70-125	0			
Vinyl chloride	20.45	1.0	20	0	102	50-145	0			
<i>Surr: 1,2-Dichloroethane-d4</i>										
	20.01	0	20	0	100	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>										
	19.91	0	20	0	99.6	75-120	0			
<i>Surr: Dibromofluoromethane</i>										
	20.23	0	20	0	101	85-115	0			
<i>Surr: Toluene-d8</i>										
	20.06	0	20	0	100	85-120	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105498** Instrument ID **VMS8** Method: **SW8260**

MS Sample ID: <b>1206020-13A MS</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/02/12 05:36 AM</b>			
Client ID:		Run ID: <b>VMS8_120601A</b>		SeqNo: <b>1990156</b>		Prep Date:		DF: <b>500</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	9425	500	10000	0	94.2	70-130	0			
1,2-Dichloroethane	9170	500	10000	0	91.7	70-130	0			
2-Butanone	11140	2,500	10000	0	111	30-150	0			
Benzene	9235	500	10000	0	92.4	80-120	0			
Carbon tetrachloride	9450	500	10000	0	94.5	65-140	0			
Chlorobenzene	9240	500	10000	0	92.4	80-120	0			
Chloroform	8945	500	10000	0	89.4	65-135	0			
Tetrachloroethene	9955	1,000	10000	0	99.6	45-150	0			
Trichloroethene	9450	500	10000	0	94.5	70-125	0			
Vinyl chloride	9050	500	10000	0	90.5	50-145	0			
Surr: 1,2-Dichloroethane-d4	9680	0	10000	0	96.8	70-120	0			
Surr: 4-Bromofluorobenzene	10060	0	10000	0	101	75-120	0			
Surr: Dibromofluoromethane	9870	0	10000	0	98.7	85-115	0			
Surr: Toluene-d8	10060	0	10000	0	101	85-120	0			

MSD Sample ID: <b>1206020-13A MSD</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/02/12 06:03 AM</b>			
Client ID:		Run ID: <b>VMS8_120601A</b>		SeqNo: <b>1990157</b>		Prep Date:		DF: <b>500</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	9385	500	10000	0	93.8	70-130	9425	0.425	30	
1,2-Dichloroethane	9260	500	10000	0	92.6	70-130	9170	0.977	30	
2-Butanone	9300	2,500	10000	0	93	30-150	11140	18	30	
Benzene	9195	500	10000	0	92	80-120	9235	0.434	30	
Carbon tetrachloride	9415	500	10000	0	94.2	65-140	9450	0.371	30	
Chlorobenzene	9210	500	10000	0	92.1	80-120	9240	0.325	30	
Chloroform	8885	500	10000	0	88.8	65-135	8945	0.673	30	
Tetrachloroethene	9675	1,000	10000	0	96.8	45-150	9955	2.85	30	
Trichloroethene	9420	500	10000	0	94.2	70-125	9450	0.318	30	
Vinyl chloride	8950	500	10000	0	89.5	50-145	9050	1.11	30	
Surr: 1,2-Dichloroethane-d4	9740	0	10000	0	97.4	70-120	9680	0.618	30	
Surr: 4-Bromofluorobenzene	9910	0	10000	0	99.1	75-120	10060	1.45	30	
Surr: Dibromofluoromethane	9995	0	10000	0	100	85-115	9870	1.26	30	
Surr: Toluene-d8	10070	0	10000	0	101	85-120	10060	0.149	30	

The following samples were analyzed in this batch:

1205842-02A 1205842-04A 1205842-06A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105630** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: <b>VBLKW1-120606-R105630</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/06/12 01:10 PM</b>			
Client ID:		Run ID: <b>VMS7_120606A</b>		SeqNo: <b>1992894</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
2-Butanone	ND	5.0								
Benzene	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroform	ND	1.0								
Tetrachloroethene	ND	2.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>										
	21.01	0	20	0	105	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>										
	19.65	0	20	0	98.2	75-120	0			
<i>Surr: Dibromofluoromethane</i>										
	20.4	0	20	0	102	85-115	0			
<i>Surr: Toluene-d8</i>										
	19.71	0	20	0	98.6	85-120	0			

LCS Sample ID: <b>VLCSW1-120606-R105630</b>				Units: <b>µg/L</b>			Analysis Date: <b>06/06/12 11:55 AM</b>			
Client ID:		Run ID: <b>VMS7_120606A</b>		SeqNo: <b>1992355</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	25.63	1.0	20	0	128	70-130	0			
1,2-Dichloroethane	21.75	1.0	20	0	109	70-130	0			
2-Butanone	17.88	5.0	20	0	89.4	30-150	0			
Benzene	21.02	1.0	20	0	105	80-120	0			
Carbon tetrachloride	23.57	1.0	20	0	118	65-140	0			
Chlorobenzene	20.58	1.0	20	0	103	80-120	0			
Chloroform	20.05	1.0	20	0	100	65-135	0			
Tetrachloroethene	21.3	2.0	20	0	106	45-150	0			
Trichloroethene	21.2	1.0	20	0	106	70-125	0			
Vinyl chloride	18.64	1.0	20	0	93.2	50-145	0			
<i>Surr: 1,2-Dichloroethane-d4</i>										
	20.92	0	20	0	105	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>										
	20.32	0	20	0	102	75-120	0			
<i>Surr: Dibromofluoromethane</i>										
	20.46	0	20	0	102	85-115	0			
<i>Surr: Toluene-d8</i>										
	19.47	0	20	0	97.4	85-120	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LATA-Kemron Remediation Services, LLC  
 Work Order: 1205842  
 Project: Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105630** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: <b>1205898-03A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>06/06/12 10:06 PM</b>				
Client ID:		Run ID: <b>VMS7_120606A</b>		SeqNo: <b>1992913</b>		Prep Date:		DF: <b>100</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2304	100	2000	0	115	70-130	0			
1,2-Dichloroethane	2119	100	2000	0	106	70-130	0			
2-Butanone	2407	500	2000	0	120	30-150	0			
Benzene	8838	100	2000	6568	114	80-120	0			
Carbon tetrachloride	2087	100	2000	0	104	65-140	0			
Chlorobenzene	1956	100	2000	0	97.8	80-120	0			
Chloroform	1907	100	2000	0	95.4	65-135	0			
Tetrachloroethene	1935	200	2000	0	96.8	45-150	0			
Trichloroethene	1957	100	2000	0	97.8	70-125	0			
Vinyl chloride	1884	100	2000	0	94.2	50-145	0			
Surr: 1,2-Dichloroethane-d4	2145	0	2000	0	107	70-120	0			
Surr: 4-Bromofluorobenzene	2069	0	2000	0	103	75-120	0			
Surr: Dibromofluoromethane	2037	0	2000	0	102	85-115	0			
Surr: Toluene-d8	1960	0	2000	0	98	85-120	0			

MSD Sample ID: <b>1205898-03A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>06/06/12 10:31 PM</b>				
Client ID:		Run ID: <b>VMS7_120606A</b>		SeqNo: <b>1992914</b>		Prep Date:		DF: <b>100</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2470	100	2000	0	124	70-130	2304	6.95	30	
1,2-Dichloroethane	2095	100	2000	0	105	70-130	2119	1.14	30	
2-Butanone	1874	500	2000	0	93.7	30-150	2407	24.9	30	
Benzene	8610	100	2000	6568	102	80-120	8838	2.61	30	
Carbon tetrachloride	2065	100	2000	0	103	65-140	2087	1.06	30	
Chlorobenzene	1921	100	2000	0	96	80-120	1956	1.81	30	
Chloroform	1903	100	2000	0	95.2	65-135	1907	0.21	30	
Tetrachloroethene	1890	200	2000	0	94.5	45-150	1935	2.35	30	
Trichloroethene	1899	100	2000	0	95	70-125	1957	3.01	30	
Vinyl chloride	1753	100	2000	0	87.6	50-145	1884	7.2	30	
Surr: 1,2-Dichloroethane-d4	2154	0	2000	0	108	70-120	2145	0.419	30	
Surr: 4-Bromofluorobenzene	2039	0	2000	0	102	75-120	2069	1.46	30	
Surr: Dibromofluoromethane	2050	0	2000	0	102	85-115	2037	0.636	30	
Surr: Toluene-d8	1986	0	2000	0	99.3	85-120	1960	1.32	30	

The following samples were analyzed in this batch:

1205842-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41375B** Instrument ID **LACHAT** Method: **SW9012A**

<b>MBLK</b>		Sample ID: <b>MBLK-41375-41375B</b>				Units: <b>mg/L</b>		Analysis Date: <b>05/31/12 03:31 PM</b>		
Client ID:		Run ID: <b>LACHAT_120531B</b>		SeqNo: <b>1989001</b>		Prep Date: <b>05/31/12</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.001181	0.0050								J

<b>LCS</b>		Sample ID: <b>LCS-41375-41375B</b>				Units: <b>mg/L</b>		Analysis Date: <b>05/31/12 03:31 PM</b>		
Client ID:		Run ID: <b>LACHAT_120531B</b>		SeqNo: <b>1989002</b>		Prep Date: <b>05/31/12</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.2524	0.0050	0.25	0	101	83-119	0			

The following samples were analyzed in this batch:

1205842-11A 1205842-13A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41375C** Instrument ID **LACHAT** Method: **SW9012A**

<b>MBLK</b>		Sample ID: <b>MBLK-41375-41375C</b>				Units: <b>mg/L</b>		Analysis Date: <b>05/31/12 03:31 PM</b>		
Client ID:		Run ID: <b>LACHAT_120531B</b>				SeqNo: <b>1989005</b>		Prep Date: <b>05/31/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable	0.001181	0.0050								J

<b>LCS</b>		Sample ID: <b>LCS-41375-41375C</b>				Units: <b>mg/L</b>		Analysis Date: <b>05/31/12 03:31 PM</b>		
Client ID:		Run ID: <b>LACHAT_120531B</b>				SeqNo: <b>1989006</b>		Prep Date: <b>05/31/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable	0.2524	0.0050	0.25	0	101	90-110	0			

<b>MS</b>		Sample ID: <b>1205842-11A MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>05/31/12 03:31 PM</b>		
Client ID: <b>WS-F Non Haz Liquids</b>		Run ID: <b>LACHAT_120531B</b>				SeqNo: <b>1989008</b>		Prep Date: <b>05/31/12</b>		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable	ND	0.025	0.25	0	0	70-130	0			S

<b>MSD</b>		Sample ID: <b>1205842-11A MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>05/31/12 03:31 PM</b>		
Client ID: <b>WS-F Non Haz Liquids</b>		Run ID: <b>LACHAT_120531B</b>				SeqNo: <b>1989009</b>		Prep Date: <b>05/31/12</b>		DF: <b>5</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable	ND	0.025	0.25	0	0	70-130	0	0	30	S

The following samples were analyzed in this batch:

1205842-11A 1205842-13A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41405A** Instrument ID **LACHAT** Method: **SW9012A**

<b>MBLK</b>		Sample ID: <b>MBLK-41405-41405A</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/01/12 11:49 AM</b>		
Client ID:		Run ID: <b>LACHAT_120601A</b>				SeqNo: <b>1989529</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.06692	1.2								J

<b>LCS</b>		Sample ID: <b>LCS-41405-41405A</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/01/12 11:49 AM</b>		
Client ID:		Run ID: <b>LACHAT_120601A</b>				SeqNo: <b>1989530</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	6.145	1.2	6.25	0	98.3	90-110	0			

<b>MS</b>		Sample ID: <b>1205842-09A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/01/12 11:49 AM</b>		
Client ID: <b>WS-E Alkaline Solids</b>		Run ID: <b>LACHAT_120601A</b>				SeqNo: <b>1989532</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	7.407	1.3	6.313	2.65	75.3	70-130	0			

<b>MSD</b>		Sample ID: <b>1205842-09A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/01/12 11:49 AM</b>		
Client ID: <b>WS-E Alkaline Solids</b>		Run ID: <b>LACHAT_120601A</b>				SeqNo: <b>1989533</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	6.475	1.3	6.313	2.65	60.6	70-130	7.407	13.4	30	S

The following samples were analyzed in this batch:

1205842-09A	1205842-15A	1205842-17A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **41405B** Instrument ID **LACHAT** Method: **SW9012A**

<b>MBLK</b>		Sample ID: <b>MBLK-41405-41405B</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/01/12 11:49 AM</b>		
Client ID:		Run ID: <b>LACHAT_120601A</b>		SeqNo: <b>1989536</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable	0.06692	0.25								J

<b>LCS</b>		Sample ID: <b>LCS-41405-41405B</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/01/12 11:49 AM</b>		
Client ID:		Run ID: <b>LACHAT_120601A</b>		SeqNo: <b>1989537</b>		Prep Date: <b>06/01/12</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Amenable	6.145	0.25	6.25	0	98.3	90-110	0			

The following samples were analyzed in this batch:

1205842-15A 1205842-17A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105340** Instrument ID **WETCHEM** Method: **SW7.3.4.2**

<b>MBLK</b>		Sample ID: <b>MB-R105340-R105340</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>05/29/12 10:45 AM</b>		
Client ID:			Run ID: <b>WETCHEM_120529J</b>			SeqNo: <b>1986959</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch:

1205842-11A 1205842-13A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105341** Instrument ID **WETCHEM** Method: **SW7.3.3.2**

<b>MBLK</b>	Sample ID: <b>MB-R105341-R105341</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>05/29/12 10:45 AM</b>		
Client ID:	Run ID: <b>WETCHEM_120529K</b>				SeqNo: <b>1986964</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Reactive ND 40

<b>LCS</b>	Sample ID: <b>LCS-R105341-R105341</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>05/29/12 10:45 AM</b>		
Client ID:	Run ID: <b>WETCHEM_120529K</b>				SeqNo: <b>1986965</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Reactive 234.9 40 250 0 94 75-125 0

<b>LCSD</b>	Sample ID: <b>LCSD-R105341-R105341</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>05/29/12 10:45 AM</b>		
Client ID:	Run ID: <b>WETCHEM_120529K</b>				SeqNo: <b>1986972</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Reactive 249.6 40 250 0 99.8 75-125 234.9 6.06 35

<b>MS</b>	Sample ID: <b>1205691-01A MS</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>05/29/12 10:45 AM</b>		
Client ID:	Run ID: <b>WETCHEM_120529K</b>				SeqNo: <b>1986967</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Reactive 234.9 40 250 0 94 50-150 0

<b>MSD</b>	Sample ID: <b>1205691-01A MSD</b>					Units: <b>mg/Kg</b>		Analysis Date: <b>05/29/12 10:45 AM</b>		
Client ID:	Run ID: <b>WETCHEM_120529K</b>				SeqNo: <b>1986968</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Reactive 249.6 40 250 0 99.8 50-150 234.9 6.06 35

The following samples were analyzed in this batch:

1205842-11A 1205842-13A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105406a** Instrument ID **WETCHEM** Method: **SW9040**

LCS					Sample ID: LCS-R105406-R105406a					Units: s.u.			Analysis Date: 05/30/12 11:20 AM			
Client ID:					Run ID: WETCHEM_120530H					SeqNo: 1988112			Prep Date:		DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					4.31		0	4.4	0	98	90-110	0				

DUP					Sample ID: 1205842-03A DUP			Units:s.u.			Analysis Date: 05/30/12 11:20 AM			
Client ID: WS-A2 Water Layer					Run ID: WETCHEM_120530H			SeqNo: 1988114			Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		7.52	0	0	0	0	0-0	7.52	0	20				

The following samples were analyzed in this batch:

1205842-03A	1205842-07A	1205842-11A
1205842-13A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105406b**      Instrument ID **WETCHEM**      Method: **SW9045D**

<b>LCS</b>		Sample ID: <b>LCS-R105406-R105406b</b>				Units: <b>s.u.</b>		Analysis Date: <b>05/30/12 11:20 AM</b>		
Client ID:		Run ID: <b>WETCHEM_120530H</b>				SeqNo: <b>1988118</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH      4.31      0      4.4      0      98      90-110      0

<b>DUP</b>		Sample ID: <b>1205863-02B DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>05/30/12 11:20 AM</b>		
Client ID:		Run ID: <b>WETCHEM_120530H</b>				SeqNo: <b>1988132</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH      9.32      0      0      0      0      0-0      9.32      0      20      H

<b>DUP</b>		Sample ID: <b>1205842-05A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>05/30/12 11:20 AM</b>		
Client ID: <b>WS-B Oily Solids</b>		Run ID: <b>WETCHEM_120530H</b>				SeqNo: <b>1988133</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH      6.76      0      0      0      0      0-0      6.76      0      20

The following samples were analyzed in this batch:

1205842-05A	1205842-09A	1205842-15A
1205842-17A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105418** Instrument ID **MOIST** Method: **A2540 G**

<b>MBLK</b>	Sample ID: <b>WBLKS1-R105418</b>					Units: % of sample		Analysis Date: <b>05/30/12 01:10 PM</b>		
Client ID:	Run ID: <b>MOIST_120530B</b>				SeqNo: <b>1988478</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

<b>LCS</b>	Sample ID: <b>LCS-R105418</b>					Units: % of sample		Analysis Date: <b>05/30/12 01:10 PM</b>		
Client ID:	Run ID: <b>MOIST_120530B</b>				SeqNo: <b>1988477</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

<b>DUP</b>	Sample ID: <b>1205845-02ADUP</b>					Units: % of sample		Analysis Date: <b>05/30/12 01:10 PM</b>		
Client ID:	Run ID: <b>MOIST_120530B</b>				SeqNo: <b>1988467</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 2.49 0.050 0 0 0 0-0 2.53 1.59 20

The following samples were analyzed in this batch:

1205842-05A	1205842-09A	1205842-15A
1205842-17A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: LATA-Kemron Remediation Services, LLC  
Work Order: 1205842  
Project: Detroit Tubular Rivet Site (65000-45)

QC BATCH REPORT

Batch ID: R105451 Instrument ID WETCHEM Method: D93

LCS	Sample ID: LCS-R105451-R105451					Units: °F		Analysis Date: 05/31/12 04:00 PM		
Client ID:			Run ID: WETCHEM_120531J		SeqNo: 1988953		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Flashpoint, P-M Closed-cup	82	0	81	0	101	97-103	0			
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The following samples were analyzed in this batch:

1205842-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105453** Instrument ID **WETCHEM** Method: **SW9045**

LCS				Sample ID: LCS-R105453-R105453				Units: s.u.			Analysis Date: 05/31/12 08:10 PM			
Client ID:				Run ID: WETCHEM_120531L				SeqNo: 1989047			Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		4.32	0	4.4	0	98.2	90-110	0						

DUP				Sample ID: 1205842-01A DUP				Units: s.u.			Analysis Date: 05/31/12 08:10 PM		
Client ID: WS-A1 Oil Layer				Run ID: WETCHEM_120531L				SeqNo: 1989049		Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		7	0	0	0	0	0-0	7	0	20			

The following samples were analyzed in this batch:

1205842-01A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105517** Instrument ID **WETCHEM** Method: **D240**

<b>LCS</b>		Sample ID: <b>WLCSS1-120601-R105517</b>				Units: <b>BTU/lb as recd.</b>		Analysis Date: <b>06/01/12 03:30 PM</b>		
Client ID:		Run ID: <b>WETCHEM_120601N</b>			SeqNo: <b>1990203</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calorific Value (BTU)	11370	100	11370	0	100	80-120	0			

The following samples were analyzed in this batch:

1205842-01A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105519** Instrument ID **WETCHEM** Method: **D240**

<b>LCS</b>		Sample ID: <b>WLCSS1-120604-R105519</b>				Units: <b>BTU/lb as recd.</b>		Analysis Date: <b>06/04/12 01:30 PM</b>		
Client ID:		Run ID: <b>WETCHEM_120604E</b>				SeqNo: <b>1990212</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calorific Value (BTU)	11370	100	11370	0	100	80-120	0			

The following samples were analyzed in this batch:

1205842-03A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LATA-Kemron Remediation Services, LLC  
Work Order: 1205842  
Project: Detroit Tubular Rivet Site (65000-45)

QC BATCH REPORT

Batch ID: R105567 Instrument ID WETCHEM Method: SW5050/9056

MBLK	Sample ID: WBLKW1-120604-R105567					Units: wt%		Analysis Date: 06/04/12 03:09 PM		
Client ID:			Run ID: WETCHEM_120604M			SeqNo: 1991153		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Chlorine ND 0.060

The following samples were analyzed in this batch: 1205842-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105576** Instrument ID **WETCHEM** Method: **D93**

<b>LCS</b>		Sample ID: <b>LCS-R105576-R105576</b>					Units: <b>°F</b>		Analysis Date: <b>06/05/12 11:00 AM</b>		
Client ID:		Run ID: <b>WETCHEM_120605F</b>			SeqNo: <b>1991330</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Flashpoint, P-M Closed-cup	81	0	81	0	100	97-103	0				

<b>DUP</b>		Sample ID: <b>1206078-01A DUP</b>					Units: <b>°F</b>		Analysis Date: <b>06/05/12 11:00 AM</b>		
Client ID:		Run ID: <b>WETCHEM_120605F</b>			SeqNo: <b>1991332</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Flashpoint, P-M Closed-cup	87	0	0	0	0	0-0	84	3.51	10		

**The following samples were analyzed in this batch:**

1205842-03A	1205842-07A	1205842-11A
1205842-13A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105578** Instrument ID **WETCHEM** Method: **SW5050/9056**

<b>MBLK</b>		Sample ID: <b>WBLKW1-120605-R105578</b>				Units: <b>wt%</b>		Analysis Date: <b>06/05/12 11:45 AM</b>		
Client ID:		Run ID: <b>WETCHEM_120605H</b>		SeqNo: <b>1991342</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Chlorine	ND	0.060								

The following samples were analyzed in this batch:

1205842-03A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LATA-Kemron Remediation Services, LLC  
Work Order: 1205842  
Project: Detroit Tubular Rivet Site (65000-45)

QC BATCH REPORT

Batch ID: R105595      Instrument ID WETCHEM      Method: E203-75

LCS	Sample ID: WLCSW1-120605-R105595					Units: wt%		Analysis Date: 06/05/12 02:00 PM		
Client ID:			Run ID: WETCHEM_120605L		SeqNo: 1991706		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Karl Fischer Water	0.12	0.050	0.1	0	120	70-130		0		
--------------------	------	-------	-----	---	-----	--------	--	---	--	--

The following samples were analyzed in this batch:

1205842-01A	1205842-03A
-------------	-------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: LATA-Kemron Remediation Services, LLC  
Work Order: 1205842  
Project: Detroit Tubular Rivet Site (65000-45)

QC BATCH REPORT

Batch ID: R105597      Instrument ID WETCHEM      Method: SW7.3.4.2

MBLK	Sample ID: MB-R105597-R105597					Units: mg/Kg		Analysis Date: 06/05/12 11:30 AM		
Client ID:			Run ID: WETCHEM_120605M		SeqNo: 1991715		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Sulfide, Reactive      ND      40

The following samples were analyzed in this batch:

1205842-01A	1205842-03A	1205842-05A
1205842-07A	1205842-09A	1205842-15A
1205842-17A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LATA-Kemron Remediation Services, LLC  
**Work Order:** 1205842  
**Project:** Detroit Tubular Rivet Site (65000-45)

## QC BATCH REPORT

Batch ID: **R105599** Instrument ID **WETCHEM** Method: **SW7.3.3.2**

<b>MBLK</b>		Sample ID: <b>MB-R105599-R105599</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/05/12 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_120605N</b>				SeqNo: <b>1991751</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	40								

<b>LCS</b>		Sample ID: <b>LCS-R105599-R105599</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/05/12 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_120605N</b>				SeqNo: <b>1991752</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	249.6	40	250	0	99.8	75-125	0			

<b>MS</b>		Sample ID: <b>1205842-15A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/05/12 11:30 AM</b>		
Client ID: <b>WS-J Plating Sludge</b>		Run ID: <b>WETCHEM_120605N</b>				SeqNo: <b>1991754</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	250.1	40	250	0	100	50-150	0			

<b>MSD</b>		Sample ID: <b>1205842-15A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>06/05/12 11:30 AM</b>		
Client ID: <b>WS-J Plating Sludge</b>		Run ID: <b>WETCHEM_120605N</b>				SeqNo: <b>1991755</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	264.8	40	250	0	106	50-150	250.1	5.71	35	

The following samples were analyzed in this batch:

1205842-15A 1205842-17A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LATA-Kemron Remediation Services, LLC  
Work Order: 1205842  
Project: Detroit Tubular Rivet Site (65000-45)

QC BATCH REPORT

Batch ID: R105646 Instrument ID WETCHEM Method: D92

LCS	Sample ID: LCS-R105646-R105646					Units: °F		Analysis Date: 06/06/12 02:00 PM			
Client ID:			Run ID: WETCHEM_120606I			SeqNo:1992626		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Flashpoint, Open-cup	81	0	81	0	100	97-103	0				
The following samples were analyzed in this batch:			1205842-05A								
			1205842-09A								
			1205842-15A								
			1205842-17A								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



☐ **ALS Laboratory Group**

10450 Standcliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

**Chain of Custody Form**

Page 1 of 1

☐ **ALS Laboratory Group**

3352 128th Ave.  
Holland, MI 49424-9263  
Tel: +1 616 399 6070  
Fax: +1 616 399 6185

Customer Information			Project Information					Parameter/Method Request for Analysis												
Purchase Order	Project Name		Project Number		Bill To Company		Invoice Attn		ALS Work Order #: <u>1205842</u>											
Work Order	Lafayette Remediation LLC		65000-45		same		Company info.		A TCEP metals											
Company Name	Kemron Environmental Services		Kemron Environmental Services		CS				B TCEP Nickel + Zinc											
Send Report To	Gary Acquaro - 404 213 9062		Gary Acquaro						C TCEP VOC's + SVOC's											
Address	1359A Ellsworth Industrial Blvd NW 2424 Louisiana Blvd NE Suite 400 Albuquerque NE 87110		1359A Ellsworth Industrial Blvd NW 1213 Grace St						D pH											
City/State/Zip	Atlanta, GA 30318		Atlanta, GA 30318						E flash point											
Phone	(404) 636-0928 505 884-3800		(404) 636-0928						F Reactive sulfate											
Fax	(404) 636-7162 505 880-3500		(404) 636-7162						G Total, reactive, amenable cyanide											
e-Mail Address	gacquaro@kemron.com								H PCB											
									I Bio's, % water, Total chlorine											
									J CN-TOTAL											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	WS-A1 oil layer -1/-2	5-29-12	1300	oil	N/A	2	X		X	X	X	X		X	X					
2	WS-A2 water layer -3/-4			Liq		2	X		X	X	X	X			X					
3	WS-B3 oily solids -5/-6			solid		1	X		X	X	X	X		X						
4	WS-C Inorganic acids -7/-8			Liq		2	X			X	X	X								
5	WS-E Alkaline solids -9/-10			solid		1	X			X	X	X				✓				
6	WS-F Non Haz Liquids -11/-12			Liq		2	X	X	X	X	X	X	X							
7	WS-I Trench Liquids -13/-14			Liq		2	X	X		X	X	X	X							
8	WS-J Plating Line Sludge -15/-16			Sludge		1	X	X		X	X	X	X							
9	WS-K FOG Dumpster -17/18			solid		1	X	X		X	X	X	X							
10																				
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:												
				<input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input checked="" type="checkbox"/> Other 7 Day				June 7												
Relinquished by:		Date:	Time:	Received by:		Notes:														
		5/24/12	3:00 pm			Email results to gacquaro@kemron.com														
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)										
		5/24/12				5/30/12 0800		5.0°C		<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist										
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):						<input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV										
DFS		5/30/12	0930							<input type="checkbox"/> Level IV SW846/CLP										
Preservative Key:		<input type="checkbox"/> Other																		
1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035																				

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.  
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.  
3. The Chain of Custody is a legal document. All information must be completed accurately.

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**ALS Laboratory Group**

3352 128th Avenue  
Holland, Michigan 49424  
Tel. +1 616 399 6070  
Fax. +1 616 399 6185

**CUSTODY SEAL**

Date: 5/16/11  
Name: [Signature]  
Company: [Signature]

Time: \_\_\_\_\_

Seal Broken By: \_\_\_\_\_

Date: \_\_\_\_\_

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5/22/11

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5/22

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**ALS Laboratory Group**

3352 128th Avenue  
Holland, Michigan 49424  
Tel. +1 616 399 6070  
Fax. +1 616 399 6185

**CUSTODY SEAL**

Date: 5/16/11  
Name: [Signature]  
Company: [Signature]

Time: \_\_\_\_\_

Seal Broken By: \_\_\_\_\_

Date: \_\_\_\_\_

ngton

Sample Receipt Checklist

Client Name: LATA - NM

Date/Time Received: 30-May-12 08:00

Work Order: 1205842

Received by: DS

Checklist completed by *Diane Shaw* 30-May-12  
eSignature Date

Reviewed by: *Tom Bramish* 30-May-12  
eSignature Date

Matrices: Liquid, Solid, oil

Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>5.0 c</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

---

**ATTACHMENT D**  
**WASTE DISPOSAL SUMMARY TABLE**

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**Attachment D**  
**Waste Disposal Summary Table**  
**Detroit Tubular Rivet Site**  
**Wyandotte, Wayne County, Michigan**

Disposal Date	U.S. DOT Description	Quantity	Unit	Manifest No.	Disposal Facility
6/11/12	Non-RCRA, Non-U.S. DOT Regulated Material (Caustic Debris)	30	yd <sup>3</sup>	061112-1	Woodland Meadows RDF, Wayne Michigan
6/11/12	Non-Hazardous Non-Regulated Liquids	4,800	gal	010348988JJK	EQ Detroit Inc., Detroit Michigan
6/13/12	Non-RCRA, Non-U.S. DOT-Regulated Material (Oily Debris)	30	yd <sup>3</sup>	061312-1	Woodland Meadows RDF, Wayne Michigan
6/14/12	NA3077, Hazardous Waste, Solid	5,600	lb	002849384JJK	Michigan Disposal WTP, Belleville Michigan
	UN3264, Waste, Corrosive Liquid, Acidic, Inorganic (Hydrochloric Acid, Phosphoric Acid)	5,000	lb	002849378JJK	EQ Detroit Inc., Detroit Michigan
	UN3264, Waste, Corrosive Liquid, Acidic, Inorganic (Hydrochloric Acid, Sulfuric Acid)	750			
	UN3264, Waste, Corrosive Liquid, Acidic, Inorganic (Hydrochloric Acid, Phosphoric Acid)	800			
	UN1755, Waste, Chromic Acid	800			
	UN1779, Waste, Formic Acid	150			
	UN1824, Waste, Sodium Hydroxide, Solution	800			
	UN3093, Waste, Corrosive Liquid, Oxidizing (Sodium Hypochlorite)	1,200			
	UN3139, Waste, Oxidizing Liquid, (Silver Nitrate, Sodium Hydroxide)	150			
	UN3266, Waste, Corrosive Liquid, Basic, Inorganic, (Sodium Hydroxide, Potassium Hydroxide)	600			
	UN1993, Waste, Flammable Liquid, (Petroleum Distillates)	900			
	UN1593, Waste, Dichloromethane	2,400			
	UN1593, Waste, Dichloromethane	800			
	UN2014, Waste, Hydrogen Peroxide, Aqueous Solution	150			
	Non-Regulated Material, Laboratory Packs	7,350			
	Non Regulated Material	800			
6/14/12	UN1588, Waste, Cyanides, Inorganic, Solid, (Sodium Cyanide, Zinc Cyanide)	750	lb	002849377JJK	
	UN1689, Waste, Sodium Cyanide, Solid	10			
	UN3414, Waste, Sodium, Cyanide Solution	10			
	Non-Hazardous, Non-Regulated Material (Empty Drums)	275			

Notes:

gal = Gallon

lb = Pound

RCRA = Resource Conservation and Recovery Act

U.S. DOT = United States Department of Transportation

WTP = Wastewater Treatment Plant

yd<sup>3</sup> = Cubic yard