

**SITE ASSESSMENT REPORT
FOR
BAYCOTE METAL FINISHING SITE
MISHAWAKA, ST. JOSEPH COUNTY, INDIANA**

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency Response Branch
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3507

Prepared by:

WESTON SOLUTIONS, INC.
20 North Wacker Drive, Suite 1210
Chicago, IL 60606

Date Prepared	February 20, 2012
TDD No.	S05-0001-1111-030
Document Control No.	1688-2A-ATUS
Contract No.	EP-S5-06-04
WESTON START Project Manager	Trenna Seilheimer
Telephone No.	312-424-3314
U.S. EPA On-Scene Coordinator	Paul Atkociunas

**SITE ASSESSMENT REPORT
FOR
BAYCOTE METAL FINISHING SITE
MISHAWAKA, ST. JOSEPH COUNTY, INDIANA**

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

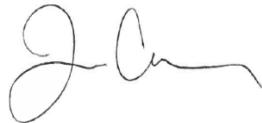
Emergency Response Branch
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3507

Prepared by:

WESTON SOLUTIONS, INC.
20 North Wacker Drive, Suite 1210
Chicago, IL 60606

February 20, 2012

Prepared by:



Date: February 20, 2012

Jon Colomb
WESTON START Member

Reviewed and Approved by:



Date: February 20, 2012

Tenna Seilheimer
WESTON START Project Manager

TABLE OF CONTENTS

Section	Page
1. INTRODUCTION.....	1
2. SITE BACKGROUND	1
2.1 SITE DESCRIPTION	2
2.2 SITE HISTORY	2
3. SITE ASSESSMENT ACTIVITIES	3
3.1 SITE RECONNAISSANCE	4
3.2 SAMPLING ACTIVITIES	5
4. ANALYTICAL RESULTS.....	7
5. THREATS TO HUMAN HEALTH AND THE ENVIRONMENT	11
6. CONCLUSIONS	14

LIST OF FIGURES

Figure 1-1	Site Location Map
Figure 2-1	Site Layout Map
Figure 3-1	Facility Layout Map
Figure 3-2	Sampling Location Map

LIST OF TABLES

Table 3-1	Container Inventory
Table 4-1	Liquid Waste Sample Analytical Results
Table 4-2	Solid Waste Sample Analytical Results

LIST OF APPENDICES

Appendix A	Photographic Documentation
Appendix B	Laboratory Analytical Report and Data Validation Report

LIST OF ABBREVIATIONS AND ACRONYMS

°F	Degree Fahrenheit
ATSDR	Agency for Toxic Substances and Disease Registry
CFR	<i>Code of Federal Regulations</i>
CO	Carbon monoxide
ENS	Existing numbering system
H ₂ S	Hydrogen sulfide
HASP	Health and safety plan
HCN	Hydrogen cyanide
IDEM	Indiana Department of Environmental Management
LEL	Lower explosive limit
md/dL	Milligrams of cyanide per deciliter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NH ₃	Ammonia
O ₂	Oxygen
OSC	On-Scene Coordinator
PCB	Polychlorinated biphenyl
PID	Photoionization detector
Poly	Polyethylene
PPE	Personal protective equipment
SJCHD	St. Joseph County Health Department
START	Superfund Technical Assessment and Response Team
SU	Standard unit
SVOC	Semivolatile organic compound
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leaching Procedure
TDD	Technical Direction Document
U.S. EPA	U.S. Environmental Protection Agency
VOC	Volatile organic compound
WESTON	Weston Solutions, Inc.

1. INTRODUCTION

The U.S. Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON[®]), Superfund Technical Assessment and Response Team (START) to assist U.S. EPA On-Scene Coordinators (OSC) Paul Atkociunas, Theresa Holz, and Jacob Hassan in performing a site assessment at the Baycote Metal Finishing Site (the Site) in Mishawaka, St. Joseph County, Indiana (the Site; **Figure 1-1**). Under Technical Direction Document (TDD) No. S05-0001-1111-030, U.S. EPA requested that WESTON START document and photograph current Site conditions; collect liquid and solid waste samples; and evaluate the potential for imminent and substantial threats to the public health or welfare of the United States or the environment posed by Site-related conditions. On December 12 and 13, 2011, WESTON START members Jeff Bryniarski and Jonathan Colomb conducted the site assessment under the direction of OSCs Paul Atkociunas, Theresa Holz, and Jacob Hassan.

This site assessment report is organized into the following sections:

- **Introduction** – Briefly describes the site assessment and its scope
- **Site Background** – Describes the Site and summarizes its known history
- **Site Assessment Activities** – Discusses observations made and sampling methods and procedures used during the site assessment
- **Analytical Results** – Discusses laboratory analytical results for samples collected during the site assessment
- **Threats to Human Health and the Environment** – Identifies Site-related conditions that may warrant a removal action based on criteria established in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) under Title 40 of the *Code of Federal Regulations* (CFR), Part 300
- **Conclusions** – Summarizes the site assessment findings

2. SITE BACKGROUND

This section discusses the site description and history.

2.1 SITE DESCRIPTION

The Site is located at 1302 Industrial Drive in Mishawaka, St. Joseph County, Indiana (**Figure 1-1**).

The coordinates of the Site are 41°39'0.03" North latitude and 86°09'57.11" West longitude. The Site is bordered by industrial properties to the north, east, and south and Industrial Drive and industrial properties to the west (**Figure 2-1**). Residential properties are located approximately 700 feet to the west. The Site contains an asphalt parking area and a large building measuring approximately 250 by 250 feet. The one-story building is constructed of sheet metal and cement blocks.

Seven churches and two schools are located within 1.0 mile of the Site. The St. Joseph River, a major surface water body that terminates in Lake Michigan, is located 0.85 mile northwest of the Site.

2.2 SITE HISTORY

The on-site building is a former electroplating facility that electroplated and anodized steel casings with zinc, cadmium, and chrome for automotive, recreational vehicle, and trailer manufacturers. The facility ceased operations in January 2008, however according to facility records 110,953 gallons of waste remained on site at the time.

On July 10, 2008, the Indiana Department of Environmental Management (IDEM) conducted an inspection of the facility and documented the following violations: failure to conduct waste determinations; failure to conduct weekly inspections; failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents; and failure to have a contingency plan.

On October 20, 2009, IDEM and the owner of the Site (TJAC, LLC) entered into an Agreed Order to resolve the violations. The Order stipulated that within 120 days of the Effective Date of the Order, the Respondent was to remove all waste materials and/or product from the facility. The Site began

voluntary removal of on-site wastes; however, the removal was not completed. On February 3, 2010, Site representatives estimated that 50,799 gallons of waste remained on-site.

In a letter dated November 21, 2011, the St. Joseph County Health Department (SJCHD) referred the Site to the U.S. EPA to determine if the Site warrants a time-critical removal action.

On November 21, 2011, the U.S. EPA and SJCHD conducted a site walk-through. During the visit, the OSC documented numerous tanks, drums, containers, and spilled materials on the floor and also observed containers labeled with the following:

- Sulfuric Acid
- Spent Acid
- Acid Rinse
- Copper Solution
- Bromate
- Phosphate
- Nitrate
- Black Chromate
- Tri-Chromate Cobalt
- Yellow Hexavalent Chromate
- Hexavalent Chrome
- Sodium Cyanide

3. SITE ASSESSMENT ACTIVITIES

On December 12 and 13, 2011, U.S. EPA OSCs Paul Atkociunas, Theresa Holz, and Jacob Hassan and WESTON START personnel met at the Site to conduct the site assessment.

The site assessment objectives included the following:

- Identify the constituents or characteristic properties of materials present in drums, vats, small containers, other miscellaneous containers, and building surfaces at the Site
- Determine if a removal action is warranted at the Site based on NCP criteria, and if so, determine if the response should be classified as emergency, time-critical, or non-time-critical response
- Rapidly assess and evaluate the urgency, magnitude, extent, and effects of a release or threatened release of hazardous substances, pollutants, or contaminants identified at the Site

and their potential effects on the public health or welfare of the United States or the environment

- Supply the Agency for Toxic Substances and Disease Registry (ATSDR) or others with information about the nature and magnitude of any health threats associated with the Site
- Support subsequent public health advisories
- Identify a potential response to eliminate, reduce, or control Site-related risks to the public health or welfare of the United States or the environment and to support an Action Memorandum documenting the identified removal approach

Appendix A provides a photographic log of Site conditions during the site assessment. The site reconnaissance and sampling activities are discussed below.

3.1 SITE RECONNAISSANCE

U.S. EPA and WESTON START conducted a site reconnaissance after an initial health and safety briefing. The site reconnaissance was performed in Level D personal protective equipment (PPE) in accordance with the approved site-specific health and safety plan (HASP). Air monitoring was conducted in the breathing zone throughout the site reconnaissance using ToxiRAE instruments to measure hydrogen cyanide (HCN) and ammonia (NH₃), a MultiRAE five-gas meter, and a MicroR gamma radiation detector. The MultiRAE five-gas monitor includes a photoionization detector (PID) that measures organic vapors, a carbon monoxide (CO) sensor, a hydrogen sulfide (H₂S) sensor, a lower explosive limit (LEL) meter, and an oxygen (O₂) meter. No readings exceeded background levels during the site reconnaissance.

The photographic log in **Appendix A** depicts Site conditions at the time of the site assessment. **Figure 3-1** shows the facility layout. Observations made during the site reconnaissance are summarized below.

The building appeared to be in fair condition. The Site was fenced on the north, east, and south sides but not along the west side next to Industrial Drive. Access to the building appeared to be restricted, and all doors and windows had locks. A section of roof in the Wastewater Treatment Room had collapsed, exposing the room and its contents to weather. Water flooded the floor in the Line 4-7 Room. No storm or sanitary sewers or drainage ditches were observed on or around the

Site. Animal prints were observed in material piles on the building floor, indicating the presence of animals at the Site.

During the site assessment, WESTON START conducted a general inventory of drums, vats, totes, buckets, and other miscellaneous containers found in the on-site building. WESTON START observed and documented over 332 drums, vats, totes, and miscellaneous containers. **Table 3-1** summarizes the inventory of containers, along with the existing numbering system (ENS) number used by the facility during the voluntary clean up and potentially hazardous materials observed during the site reconnaissance. The inventory included documenting the approximate sizes, volumes, label information, and contents of containers observed.

Some drums were in poor condition and open and incompatible materials were observed stored next to each other in the Solids Room. Most containers were labeled, but the volumes of the contents were unknown. Many totes were improperly labeled, and several drums were corroded and leaking onto the floor. Evidence of previous spills was noted in the Solids Room and Line 4-7 Room.

3.2 SAMPLING ACTIVITIES

Sampling locations were selected based on observations during the site reconnaissance and chosen to be representative of areas posing potential risk to the public health or welfare of the United States or the environment. The sampling activities were conducted in Level B PPE in accordance with the approved site-specific HASP. Two WESTON START members and two OSCs entered the work zone to conduct sampling activities, while one OSC remained outside the work zone for backup. All sampling teams remained in eyesight throughout the sampling event. Air monitoring was conducted in the breathing zone throughout the sampling activities using ToxiRAE instruments to measure HCN and NH₃ and a MultiRAE five-gas meter. No readings exceeded background levels during the sampling activities.

Figure 3-2 shows the sampling locations. WESTON START collected 11 investigative liquid waste samples and 4 investigative solid waste samples. The samples and sampling locations are described below.

- Sample BMF-WL01-121211 was collected from a vat labeled “Electro Cleaner” with a pH of 10 to 12 standard units (SU) tested using pH paper.
- Sample BMF-WL02-121211 was collected from a vat labeled “Cadmium Plating Solution” with a pH of 10 to 12 SUs tested using pH paper.
- Sample BMF-WL03-121211 was collected from a vat labeled “Phosphate” with a pH of 2 to 4 SUs tested using pH paper.
- Sample BMF-WL04-121211 was collected from a vat labeled “Acid #1” with a pH of 2 to 4 SUs tested using pH paper.
- Sample BMF-WL05-121211 was collected from a vat labeled “ZnCN” with a pH of 10 to 12 SUs tested using pH paper.
- Sample BMF-WL06-121211 was collected from a vat labeled “Black Hexavalent Chromate Postdip.”
- Sample BMF-WL07-121211 was collected from a vat labeled “HCl” with a pH of 2 to 4 SUs tested using pH paper.
- Sample BMF-WL08-121211 was collected from a 5-gallon steel container labeled “Acetone.”
- Sample BMF-WL09-121211 was collected from a cut in half 55-gallon steel drum labeled “Used Oil.”
- Sample BMF-WL10-121211 was collected from a 55-gallon poly drum labeled “Sulfuric Acid” with a pH of 2 to 4 SUs.
- Sample BMF-WL11-121211 was collected from liquid in a flooded portion of the Line 4-8 Room.
- Sample BMF-WS01-121211 was collected from a 55-gallon steel drum labeled “Sodium Cyanide.”
- Sample BMF-WS02-121211 was collected from a 15-gallon steel drum labeled “Chrome Acid Flakes.”
- Sample BMF-WS03-121211 was collected from a pile of dried green material on the floor of the Line 5-6-9 Room.
- Sample BMF-WS04-121211 was collected from pile of yellow material on the floor of the Solids Room.

Fresh sampling gloves were donned before sampling activities began at each new sampling location. All liquid and solid samples were collected as grab samples. The waste liquid samples were collected using glass drum thieves or plastic bailers as appropriate. The waste solid samples were collected using disposable plastic scoops. All sample containers were filled directly from the drum

thieves, bailers, or plastic scoops and labeled with the sample identification number, sampling date, and sampling time. All sampling information was recorded in the Site logbook, and all samples were recorded on the chain-of-custody form. All samples were labeled and immediately placed on ice after collection. The samples were submitted to STAT Analysis Corporation in Chicago, Illinois, under chain of custody for analysis for one or more of the following: corrosivity (pH), ignitability, reactive cyanide, total cyanide, Target Analyte List (TAL) metals, polychlorinated biphenyls (PCB), volatile organic compounds (VOC), semivolatile organic compounds (SVOC), and Toxicity Characteristic Leaching Procedure (TCLP) metals.

4. ANALYTICAL RESULTS

WESTON START collected 11 investigative liquid waste samples and 4 investigative solid waste samples. The samples were collected to assess whether the Site poses imminent and substantial threats to the public health or welfare of the United States or the environment from the presence of potentially hazardous materials. **Figure 3-2** shows the sampling locations. **Tables 4-1** and **4-2** summarize the results for the liquid and solid samples, respectively. Samples BMF-WL08-121211 and BMF-WL09-121211 were liquid waste samples, but because of their density, they were analyzed as solid waste samples. **Appendix B** provides the laboratory analytical report and the data validation report for the samples.

The liquid waste sample laboratory analytical results are summarized below for each sample collected (**Table 4-1**).

- Sample BMF-WL01-121211 (collected from a vat labeled “Electro Cleaner” with a pH of 10 to 12 SUs tested using pH paper)
 - No results meet criteria according to 40 CFR, Part 261.
 - Potassium was detected at a concentration of 20,000 milligram per liter (mg/L) which was the maximum concentration detected.
- Sample BMF-WL02-121211 (collected from a labeled “Cadmium Plating Solution” with a pH of 10 to 12 SUs tested using pH paper)
 - Reactive cyanide and total cyanide were detected at concentrations of 8,000 and 15,000 mg/L, respectively. According to 40 CFR 261.23 (a)(5), this sample represents a cyanide- or sulfide-bearing waste that, when exposed to pH conditions between 2 and

12.5 SUs, could generate toxic gases, vapors, or fumes “in a quantity sufficient to present a danger to human health or the environment.” As noted in the Section 3.1, the open vat from which this sample was collected is located in a room with containers that had pH conditions between 2 and 12.5 SUs. Therefore, this waste sample represents a material that meets the definition of characteristically hazardous waste for cyanide reactivity (D003).

- Cadmium was detected at a concentration of 47,000 mg/L which was the maximum concentration detected.
- Sample BMF-WL03-121211 (collected from a vat labeled “Phosphate” with a pH of 2 to 4 SUs tested using pH paper)
 - No results meet criteria according to 40 CFR, Part 261.
- Sample BMF-WL04-121211 (collected from a vat labeled “Acid #1” with a pH of 2 to 4 SUs tested using pH paper)
 - The corrosivity result showed a pH of less than 2 SUs. According to 40 CFR 261.22(a), this waste sample represents material that meets the definition of characteristically hazardous waste for corrosivity (D002) because the pH value is less than or equal to 2 SUs or greater than or equal to 12.5 SUs.
- Sample BMF-WL05-121211 (collected from a vat labeled “ZnCN” with a pH of 10 to 12 SUs tested using pH paper)
 - Reactive cyanide and total cyanide were detected at concentrations of 140 and 30,000 mg/L, respectively. According to 40 CFR 261.23 (a)(5), this sample represents a cyanide- or sulfide-bearing waste that, when exposed to pH conditions between 2 and 12.5 SUs, could generate toxic gases, vapors, or fumes “in a quantity sufficient to present a danger to human health or the environment.” As noted in the Section 3.1, the open vat from which this sample was collected is located in a room with containers that had pH conditions between 2 and 12.5 SUs. Therefore, this waste sample represents a material that meets the definition of characteristically hazardous waste for cyanide reactivity (D003).
 - Sodium was detected at a concentration of 170,000 mg/L which was the maximum concentration detected.
 - Zinc was detected at a concentration of 130,000 mg/L which was the maximum concentration detected.
- Sample BMF-WL06-121211 (collected from a vat labeled “Black Hexavalent Chromate Postdip”)
 - No results meet criteria according to 40 CFR, Part 261.

- Sample BMF-WL07-121211 (collected from a vat labeled “HCl” with a pH of 2 to 4 SUs tested using pH paper)
 - The corrosivity result showed a pH of less than 2 SUs. According to 40 CFR 261.22(a), this waste sample represents material that meets the definition of characteristically hazardous waste for corrosivity (D002) because the pH value is less than or equal to 2 SUs or greater than or equal to 12.5 SUs.
- Sample BMF-WL10-121211 (collected from a 55-gallon poly drum labeled “Sulfuric Acid” with a pH of 2 to 4 SUs)
 - The corrosivity result showed a pH of less than 2 SUs. According to 40 CFR 261.22(a), this waste sample represents material that meets the definition of characteristically hazardous waste for corrosivity (D002) because the pH value is less than or equal to 2 SUs or greater than or equal to 12.5 SUs.
- Sample BMF-WL11-121211 (collected from a liquid from a flooded portion of the Line 4-8 Room floor)
 - No results meet criteria according to 40 CFR, Part 261.

The solid waste sample laboratory analytical results are summarized below for each sample collected (Table 4-2).

- Sample BMF-WL08-121211 (collected from a 5-gallon steel container labeled “Acetone”)
 - The ignitability result showed a flashpoint of less than 32 degrees Fahrenheit (°F). According to 40 CFR 261.21 (a), this waste sample represents material that meets the definition of characteristically hazardous waste for ignitability (D001) because the flashpoint is below 140 °F.
 - The sample contained 76 percent acetone (760,000 milligram per kilogram [mg/kg]) which indicates that the container was labeled correctly.
- Sample BMF-WL09-121211 (collected from a cut in half 55-gallon poly drum labeled “Used Oil”)
 - No results meet criteria according to 40 CFR, Part 261.
- Sample BMF-WS01-121211 (collected from a 55-gallon steel drum labeled “Sodium Cyanide”)
 - The sample contained TCLP cadmium at 83 mg/L. This TCLP cadmium concentration exceeds the TCLP cadmium regulatory limit of 1.0 mg/L. Therefore, according to 40 CFR 261.24(b), this sample represents material that meets the definition of characteristically hazardous waste for toxicity (D006).

- Sample BMF-WS02-121211 (collected from a 15-gallon steel drum labeled “Chrome Acid Flakes”)
 - The corrosivity result showed a pH of less than 2 SUs. According to 40 CFR 261.22(a), this waste sample represents material that meets the definition of characteristically hazardous waste for corrosivity (D002) because the pH value is less than or equal to 2 SUs or greater than or equal to 12.5 SUs.
 - The sample contained TCLP chromium at 20,000 mg/L. This TCLP chromium concentration exceeds the TCLP chromium regulatory limit of 5.0 mg/L. Therefore, according to 40 CFR 261.24(b), this sample represents material that meets the definition of characteristically hazardous waste for toxicity (D007).
 - Chromium was detected at a concentration of 430,000 mg/L which was the maximum concentration detected.
- Sample BMF-WS03-121211 (collected from a pile of dried green material on the floor of the Line 5-6-9 Room)
 - The sample contained TCLP chromium at 420 mg/L. This TCLP chromium concentration exceeds the TCLP chromium regulatory limit of 5.0 mg/L. Therefore, according to 40 CFR 261.24(b), this sample represents material that meets the definition of characteristically hazardous waste for toxicity (D007).
 - Aluminum was detected at a concentration of 11,000 mg/L which was the maximum concentration detected.
 - Calcium was detected at a concentration of 59,000 mg/L which was the maximum concentration detected.
 - Copper was detected at a concentration of 32,000 mg/L which was the maximum concentration detected.
 - Iron was detected at a concentration of 48,000 mg/L which was the maximum concentration detected.
 - Sodium was detected at a concentration of 14,000 mg/L which was the maximum concentration detected.
- Sample BMF-WS04-121211 (collected from pile of yellow material on the floor of the Solids Room)
 - The sample contained TCLP chromium at 300 mg/L. This TCLP chromium concentration exceeds the TCLP chromium regulatory limit of 5.0 mg/L. Therefore, according to 40 CFR 261.24(b), this sample represents material that meets the definition of characteristically hazardous waste for toxicity (D007).
- Duplicate sample BMF-WS04-121211-D (duplicate collected from pile of yellow material on the floor of the Solids Room)

- The sample contained TCLP chromium at 380 mg/L. This TCLP chromium concentration exceeds the TCLP chromium regulatory limit of 5.0 mg/L. Therefore, according to 40 CFR 261.24(b), this sample represents material that meets the definition of characteristically hazardous waste for toxicity (D007).
- Zinc was detected at a concentration of 470,000 mg/L which was the maximum concentration detected.

5. THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Factors to be considered in determining the appropriateness of a potential removal action at a Site are delineated in the NCP at 40 CFR 300.415(b)(2). A summary of the factors applicable to this Site is presented below.

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

The Site is located in an industrial and residential area. During the site assessment, it was noted that the Site borders industrial properties to the north, east, and south and Industrial Drive and industrial properties to the west. Residential properties are also located nearby, approximately 700 feet to the west. Seven churches and two schools are located within 1.0 mile of the Site. The St. Joseph River, a major surface water body that terminates in Lake Michigan, is located 0.85 mile northwest of the Site.

During the site assessment, it was noted that the Site is fenced on the north, east, and south sides but not along the west side next to Industrial Drive. Access to the building appeared to be restricted, and all doors and windows had locks. A section of roof in the Wastewater Treatment Room had collapsed, exposing the room and its contents to weather. Water flooded the floor in the Line 4-7 Room.

Analytical results from the site assessment indicate that hazardous substances, as defined by CERCLA Part 101(14), pollutants, and contaminants, are present at the Site and represent an actual or potential threat to nearby human populations. These include toxic, ignitable, corrosive, and reactive materials. Analytical results from liquid sample BMF-WL02-121211 documented reactive cyanide and total cyanide at concentrations of 8,000 and 15,000 mg/L, respectively. The analytical results from liquid sample BMF-WL05-121211 documented reactive cyanide and total cyanide at concentrations of 140 to 30,000 mg/L, respectively. Analytical results from solid samples BMF-WS02-121211, BMF-WS03-121211, and BMF-WS04-121211 documented TCLP chromium concentrations of 20,000, 420, and 300 mg/L, respectively. Analytical results from solid sample BMF-WS01-121211 documented TCLP cadmium concentrations of 83 mg/L. Analytical results from liquid samples BMF-WL04-121211, BMF-WL07-121211, BMF-WL10-121211, and solid sample BMF-WS02-121211 documented pH values of less than 2 SUs.

Exposure to small amounts of cyanide can be deadly regardless of the route of exposure. The severity of the harmful effects depends in part on the form of cyanide. Exposure to high levels of cyanide for a short amount of time harms the brain and heart and can even cause coma or death. Cyanide produces toxic effects at levels of 0.05 milligrams of cyanide per deciliter of blood (mg/dL) or higher, and deaths have occurred at levels of 0.3md/dL and higher. Individuals who have inhaled 546 ppm of hydrogen cyanide have died after a 10-minute exposure; 110 ppm of hydrogen cyanide was life threatening after 1-hour exposure. Ingestion of small amounts of cyanide compounds in a short time may result in death unless antidote therapy is given quickly. Some of the first indications of cyanide poisoning are rapid, deep breathing and shortness of breath, followed by convulsions (seizures) and loss of consciousness. These symptoms can occur rapidly, depending on the amount ingested. The health effects of large amounts of cyanide are similar, whether ingested or inhaled; cyanide uptake into the body through the skin is slower than these other types of exposure. Skin contact with hydrogen cyanide salts can irritate and produce lesions. Workers who inhaled hydrogen cyanide in levels as low as 6-10 ppm over a period of time developed breathing difficulties, chest pain, vomiting, blood changes, headaches, and enlargement of the thyroid gland.

Inhalations of high levels of chromium (VI) can cause irritation to the lining of the nose, nose ulcers, runny nose, and breathing problems such as asthma, cough, shortness of breath, or wheezing. Chromium (VI) is more toxic to humans and therefore causes these effects at much lower concentrations compared to chromium (III). The main health effects as seen in animals following ingestion of chromium (VI) compounds are irritation and ulcers in the stomach and small intestine and anemia. The Department of Health and Human Services, the International Agency for Research on Cancer, and the U.S. EPA have determined that chromium (VI) compounds are known human carcinogens. Inhalation of chromium (VI) has been shown to cause lung cancer in both animals and human. An increase in stomach tumors was observed in humans and animals exposed to chromium (VI) in drinking water.

Breathing high levels of cadmium can severely damage the lungs. Eating food or drinking water with very high levels severely irritates the stomach, leading to vomiting and diarrhea. Long-term exposure to lower levels of cadmium in air, food, or water leads to a buildup of cadmium in the kidneys and possible kidney disease. Other long-term effects include lung damage and fragile bones. A few studies in animals indicate that younger animals absorb more cadmium than adults. Animal studies also indicate that the young are more susceptible than adults to a loss of bone and decreased strength from exposure to cadmium.

Animal prints were observed in material piles on the building floor, indicating the presence of animals at the Site.

Some drums were in poor condition and open, and incompatible materials were observed stored next to each other in the Solids Room. Several drums were corroded and leaking onto the floor. Evidence of previous spills was noted in the Solids Room and Line 4-7 Room. Based on these conditions, nearby populations and the environment could be exposed to potentially hazardous materials if contaminants migrate off site.

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

The Site contains over 332 drums, totes, vats, and miscellaneous containers and several spill areas. During the site assessment, some drums were in poor condition and open, and incompatible materials were observed stored next to each other. Several drums were corroded and leaking onto the floor.

Containers identified during the site assessment contain various materials, including the following: zinc cyanide solution, chloride zinc acid, yellow chromate, acid copper bath, black hexavalent chromate postdip, sulfuric acid, hydrochloric acid, and unlabeled and unidentified materials.

A release of materials from the Site is possible because of the potential for trespassing and impacts from stormwater. Trespassers could cause a direct release of contaminants and subsequent dispersion of airborne contamination. During the site assessment, a collapsed roof in the Wastewater Treatment Room and large amounts of standing water on the floor of the Line 4-7 Room were observed. Public areas near the Site could be exposed to potentially hazardous materials if contaminants migrate off site.

Laboratory results documented that sampled materials were characteristic for hazardous waste, including toxic, ignitable, corrosive, and reactive waste streams. Many of the vats, pits, tanks, drums and containers were in deteriorating condition and open to the atmosphere. There is a very high potential of a release of hazardous substances from drums, and other bulk storage containers.

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

Mishawaka receives an average yearly precipitation of 36.59 inches. The average temperatures range from 11 to 86 °F. The Site ground surface is relatively flat. During the site assessment, no storm or sanitary sewers or drainage ditches were observed on or around the Site. A collapsed roof in the Wastewater Treatment Room and large amounts of standing water on the floor of the Line 4-7 Room were observed. In addition, some drums and containers were in poor condition and open, with visible evidence of past spills. Due to the structural condition of the building and presence of containers in poor condition or open, a weather related release or migration of hazardous materials is possible.

- **Threat of fire or explosion**

Analytical results from the site assessment indicate that one sample had a flashpoint of less than 32°F, which meets the definition of a characteristic hazardous waste for ignitability. Therefore, the potential for a fire/explosion exists. Approximately 10,000 people live within 1 mile of the Site. If an event occurs, contaminants could become airborne and may affect the nearby population.

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

In a letter dated November 21, 2011, the SJCHD referred the Site to the U.S. EPA to determine if the Site warrants a time-critical removal action.

6. CONCLUSIONS

During the site assessment, over 332 drums, totes, vats, and miscellaneous containers and several spill areas were observed throughout the Site. Most containers were labeled, but the volumes of the contents were unknown. WESTON START collected 11 investigative liquid waste samples and 4 investigative solid waste samples for analysis for one or more of the following: corrosivity, ignitability, reactive cyanide, total cyanide, TAL metals, PCBs, VOCs, SVOCs, and TCLP metals.

Reactive cyanide and total cyanide were detected at concentrations of 8,000 and 15,000 mg/L, respectively in liquid waste sample BMF-WL02-121211, and 140 and 30,000 mg/L, respectively in liquid waste sample BMF-WL05-121211. According to 40 CFR Part 261, Subpart C, 261.23 (a)(5), this sample represents a cyanide- or sulfide-bearing waste that, when exposed to pH conditions between 2 and 12.5 SUs, could generate toxic gases, vapors, or fumes “in a quantity sufficient to present a danger to human health or the environment.” As noted in the Section 3.1, the open vat from which this sample was collected is located in a room with containers that had pH conditions between 2 and 12.5 SUs. Therefore, this waste sample represents a material that meets the definition of characteristically hazardous waste for cyanide reactivity (D003).

Corrosivity results showed a pH of less than 2 SUs in waste samples BMF-WL04-121211, BMF-WL07-121211, BMF-WL10-121211, and BMF-WS02-121211. According to 40 CFR Part 261, Subpart C, 261.22 (a)(1), this waste sample represents material that meets the definition of characteristically hazardous waste for corrosivity (D002) because the pH value is less than or equal to 2 SUs or greater than or equal to 12.5 SUs.

Ignitability results showed a flashpoint of less than 32 °F in liquid waste sample BMF-WL08-121211. According to 40 CFR Part 261, Subpart C, 261.21 (a)(1), this waste sample represents

material that meets the definition of characteristically hazardous waste for ignitability (D001) because the flashpoint is below 140 °F.

Toxicity results showed TCLP cadmium at 83 mg/L in solid waste sample BMF-WS01-121211. This TCLP cadmium concentration exceeds the TCLP cadmium regulatory limit of 1.0 mg/L. In addition, toxicity results showed TCLP chromium at 20,000 mg/L in solid waste sample BMF-WS02-121211, 420 mg/L in solid waste sample BMF-WS03-121211, 300 mg/L in solid waste sample BMF-WS04-121211, and 380 mg/L in solid waste sample BMF-WS04-121211-D. These TCLP chromium concentrations exceed the TCLP chromium regulatory limit of 5.0 mg/L. Therefore, according to 40 CFR Part 261, Subpart C, 261.24 (b), these samples represent materials that meet the definition of characteristically hazardous waste for toxicity (D008).

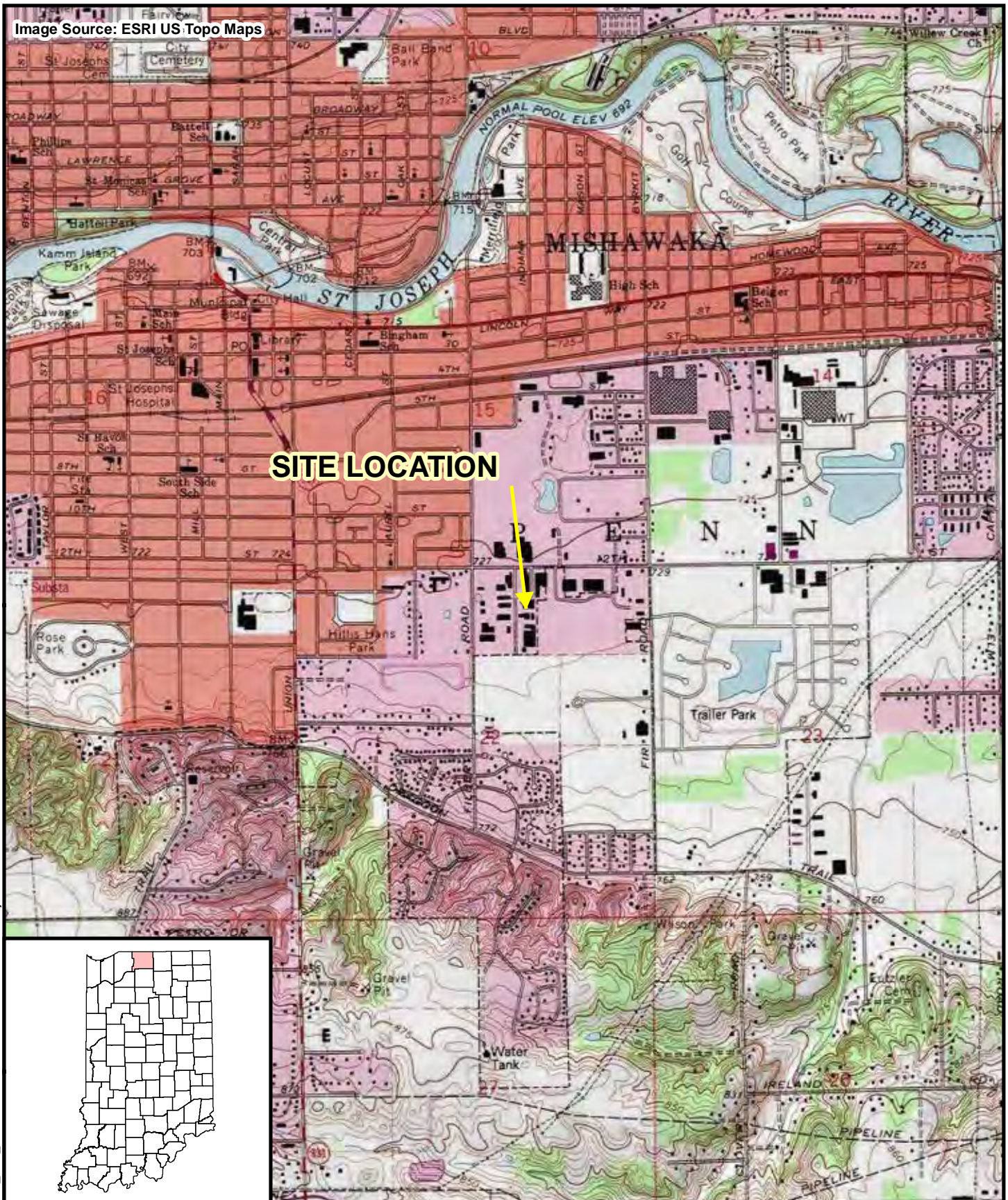
WESTON START determined that wastes present at the Site in drums, vats, totes, and miscellaneous containers pose a potential threat of release and a substantial threat to the public health or welfare of the United States or the environment. Hazards identified at the Site include the following uncontrolled factors:

- Wastes exhibiting the characteristics of ignitability, corrosivity, TCLP cadmium, and TCLP chromium
- Contaminants in open containers in poor condition
- Questionable integrity of building structures (collapsed roof in Wastewater Treatment Room and flooding in Line 4-7 Room)
- Close proximity of Site to residential properties and other sensitive receptors (including churches, schools, and waterways)
- Potential migration pathways from waste inside the on-site building to public areas

Contaminants and conditions at the Site meet criteria established in the NCP for a removal action.

FIGURES

Image Source: ESRI US Topo Maps



SITE LOCATION

Legend

0 2,000
Feet



Prepared for:
U.S. EPA REGION V

Contract No: EP-S5-06-04
TDD: S05-0001-1111-030
DCN: 1688-2A-ATUS



Prepared By:
WESTON SOLUTIONS, INC

20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

Figure 1-1

Site Location Map

Baycote Metal Finishing Site
Mishawaka, St Joseph County, Indiana

Image Source: ESRI Bing Maps



Legend

0 150 Feet



Prepared for:
U.S. EPA REGION V

Contract No: EP-S5-06-04
TDD: S05-0001-1111-030
DCN: 1688-2A-ATUS

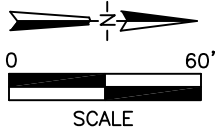
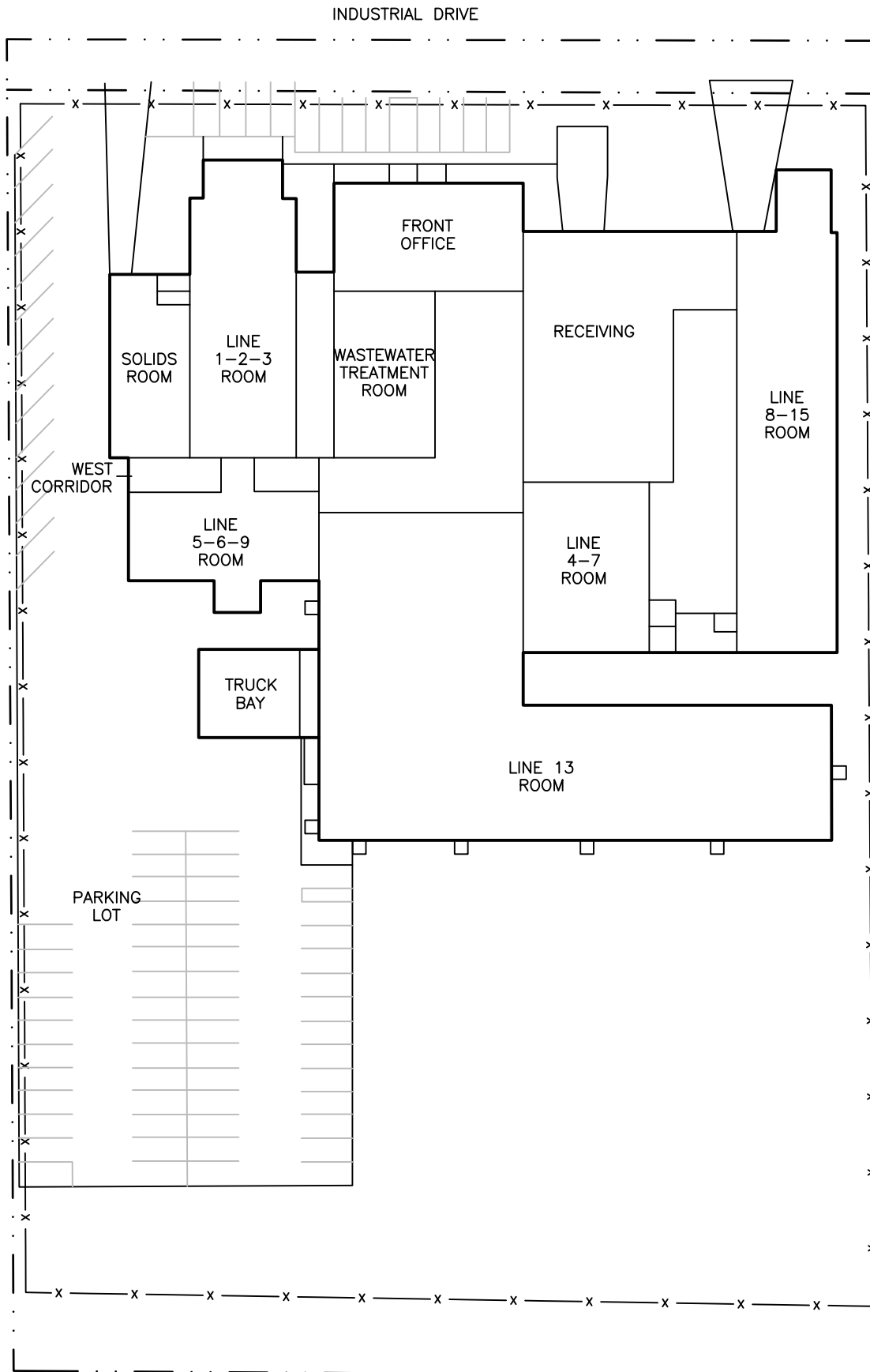


Prepared By:
WESTON SOLUTIONS, INC

20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

Figure 2-1

Site Layout Map
Baycote Metal Finishing Site
Mishawaka, St Joseph County, Indiana

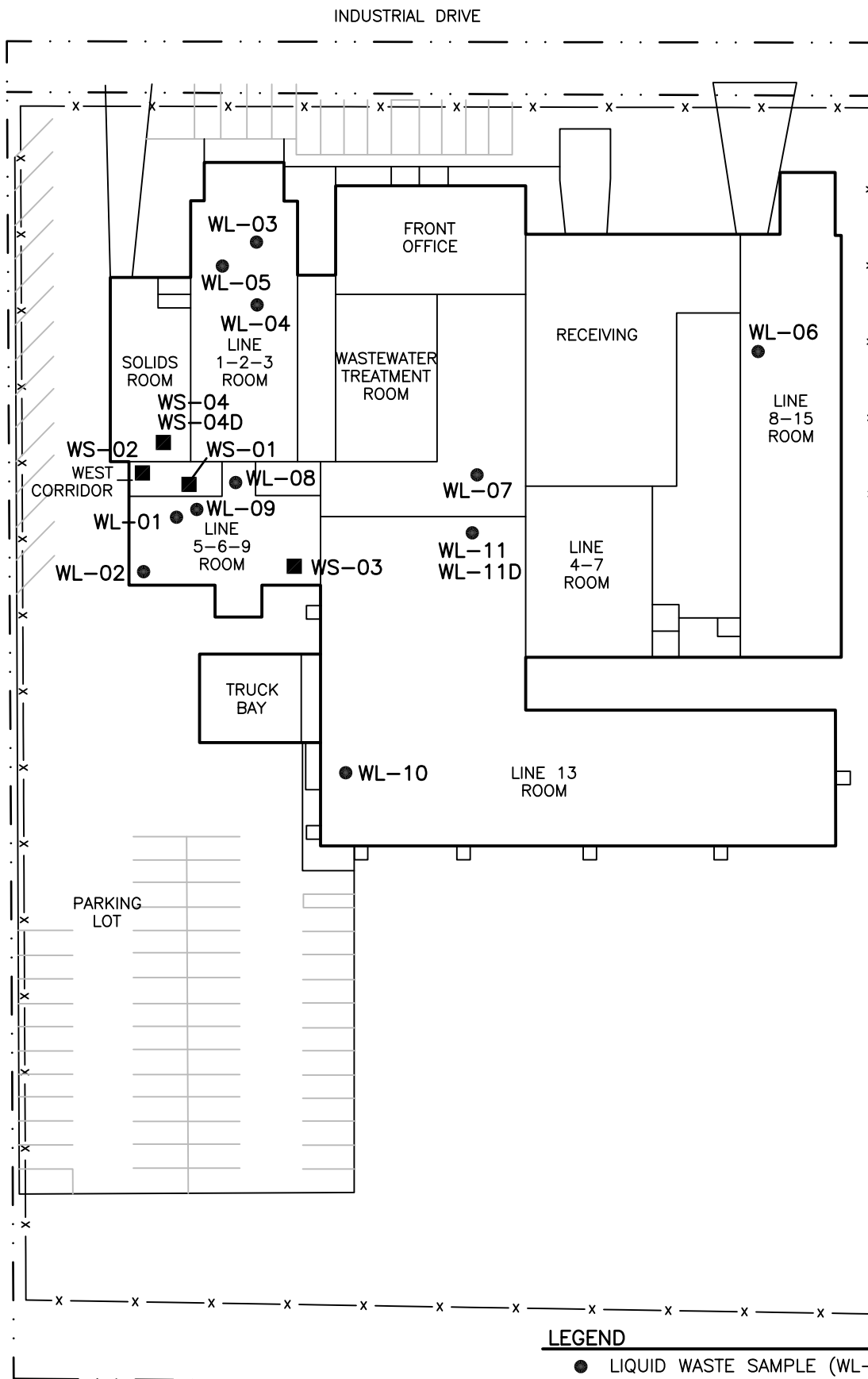


Prepared for:
U.S. EPA. REGION V
Contract No: EP-S5-06-04
TDD: S05-0001-1111-030
DCN: 1688-2A-ATUS



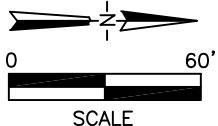
Prepared By:
WESTON
SOLUTIONS, INC
20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

Figure 3-1
Facility Layout Map
Baycote Metal Finishing Site
Mishawaka, St Joseph County, Indiana



LEGEND

- LIQUID WASTE SAMPLE (WL-XX)
- SOLID WASTE SAMPLE (WS-XX)



Prepared for:
U.S. EPA. REGION V
Contract No: EP-S5-06-04
TDD: S05-0001-1111-030
DCN: 1688-2A-ATUS



Prepared By:
WESTON
SOLUTIONS, INC
20 N. Wacker Drive
Suite 1210
Chicago, Illinois 60606

Figure 3-2
Sampling Location Map
Baycote Metal Finishing Site
Mishawaka, St Joseph County, Indiana

TABLES

Table 3-1
Container Inventory
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Location	Quantity	Size (gallons)	Type of Container	Percent Full	Contents or Labeling	Comments
Line 5-6-9 Room	3	1.0	Small container	50	Cadmium Sulfate Solution	
	1	55.0	Drum (poly)	50	ENS "52"	
	1	55.0	Drum (poly)	50	ENS "53"	
	1	55.0	Drum (poly)	50	ENS "54"	
	1	55.0	Drum (poly)	100	ENS "55"; HCl Inhibitor	
	1	55.0	Drum (poly)	33	ENS "59"; Clear Chromate	
	1	55.0	Drum (poly)	50	ENS "58"	
	1	55.0	Drum (poly)	66	ENS "57"	
	1	55.0	Drum (poly)	25	ENS "56"; solid; Olive Drab Chromate	
	1	55.0	Drum (poly)	50	No ENS	
	1	55.0	Drum (poly)	100	No ENS; Used Oil	
	1	330.0	Tote (poly)	100	No ENS; Cyanide	
	1	330.0	Tote (poly)	50	No ENS	
	1	448.2	Vat	--	ENS "33"; Cadmium Plating Solution	Sampling location WL-02
	1	50.4	Vat	--	ENS "34"; Copper CN	
	1	33.6	Vat	--	ENS "36"; Potassium Silver Cyanide	
	1	89.6	Vat	--	ENS "37"	
	1	112.1	Vat	--	ENS "39"; Hot Rinse Water	
	1	44.8	Vat	--	No ENS; Acid - Chloride Zinc	
	1	59.8	Vat	--	ENS "42"; Electro Cleaner	Sampling location WL-01
	1	65.4	Vat	--	ENS "27"; Cadmium Plating Solution	
	1	100.9	Vat	--	ENS "27"; Yellow Chromate	
	1	537.8	Vat	--	ENS "147"; Chrome #2	
Solids Room	1	5.0	Small Container	50	No ENS; Acetone	Sampling location WL-08
	1	55.0	Drum (poly)	50	No ENS; Harden Sack	
	1	55.0	Drum (poly)	40	No ENS; cut in half; Used Oil	Sampling location WL-09
	1	55.0	Drum (steel)	25	No ENS; Per Kote	
	1	55.0	Drum (steel)	100	No ENS; Sodium Cyanide	Sampling Location WS-01
	1	35.0	Drum (steel)	100	No ENS; Sodium Hydrosulfate	
	1	35.0	Drum (steel)	100	No ENS; Sodium Hydrosulfate	
	1	10.0	Drum (steel)	75	No ENS; Chromic Acid	Sampling location WS-02
	1	10.0	Drum (steel)	50	No ENS; Yellow Chromate	
	2	10.0	Drum (steel)	100	No ENS; Chrome Acid Flakes	
	1	275.0	Tote (poly)	100	No ENS; Endochrome Regular	
	1	300.0	Tote (poly)	100	No ENS; Electroclean	
	5	--	Bag	100	No EMS; Oxidizer	50-pound bags
Line 1-2-3 Room	1	55.0	Drum (poly)	35	No ENS; Hydrogen Peroxide	
	5	55.0	Drum (poly)	50	No ENS; HP Tri-V Black	5 Drums
	1	35.0	Drum (poly)	33	No ENS	
	1	55.0	Drum (steel)	50	No ENS; Corrosive	
	1	37.4	Vat	--	ENS "90"	
	1	59.8	Vat	--	ENS "95"; OD Chromate	
	1	59.8	Vat	--	ENS "96"; Yellow Chromate	
	1	672.3	Vat	--	ENS "94"; Cadmium Tank	
	1	239.0	Vat	--	ENS "101" - Acid	
	1	74.7	Vat	--	ENS "104"; Electrocleanse	
	1	59.8	Vat	--	ENS "105"; Electrocleanse	
	1	179.3	Vat	--	ENS "106"	
	1	1,344.6	Vat	--	ENS "70"; ZnCN	Sampling location WL-05
	1	358.6	Vat	--	ENS "69"; Electrocleanse	
	1	806.8	Vat	--	ENS "68"; Soak Clean	
	1	134.5	Vat	--	ENS "67"; Rinse Tank	
	1	358.6	Vat	--	ENS "65"; Phosphate	Sampling location WL-03
	1	59.8	Vat	--	ENS "88"; Copper	
	1	29.9	Vat	--	ENS "86"; Bright Copper	
	1	119.5	Vat	--	ENS "89"; Brass Tank; NaCN	
	1	224.1	Vat	--	ENS "79"; Acid #1	Sampling location WL-04
	1	179.3	Vat	--	ENS "77"; Electrocleanse #2	

Table 3-1
Container Inventory
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Location	Quantity	Size (gallons)	Type of Container	Percent Full	Contents or Labeling	Comments
West Corridor	2	55.0	Drum (poly)	75	No ENS; Used Oil	
	30	5.0	Bucket (poly)	Unknown	No ENS	
	1	150.0	Tank	Unknown	No ENS	
Wastewater Treatment Room	2	55.0	Drum (poly)	100	No ENS	
Line 8-15 Room	1	55.0	Drum (poly)	75	No ENS; DI Water	
	1	55.0	Drum (poly)	50	No ENS; Havilan Clean	
	2	55.0	Drum (poly)	100	No ENS; Used Oil	
	1	25.0	Drum (poly)	100	No ENS; Used Oil	
	1	55.0	Drum (fiber)	100	No ENS	White solid
	1	55.0	Drum (steel)	--	No ENS; Full Corrosive	
	1	330.0	Tote (poly)	0.3	No ENS; Olive Drab Chrome	
	1	330.0	Tote (poly)	0.6	No ENS	Unknown solid
	2	330.0	Tote (poly)	75	No ENS; Cyanide	
	1	200.0	Tank	10	ENS "116"	
	1	537.8	Vat	--	ENS "136"; Acid Chrome Zinc	
	1	59.8	Vat	--	ENS "134"	
	1	239.0	Vat	--	ENS "135"	
	1	239.0	Vat	--	ENS "131"	
	1	298.8	Vat	--	ENS "130"; Water Rinse	
	1	149.4	Vat	--	ENS "128"; Water Rinse	
	1	149.4	Vat	--	ENS "127"; Activator	
	1	112.1	Vat	--	ENS "125"; Water Rinse	
	1	112.1	Vat	--	ENS "124"; Water Rinse	
	1	358.6	Vat	--	ENS "123"; Hot Electrocleanse	
	1	1,008.5	Vat	--	ENS "122"; Soak Chrome	
	1	140.1	Vat	--	ENS "121"; Clear Chromate	
	1	46.7	Vat	--	ENS "119"	
	1	186.8	Vat	--	ENS "118"; Water Rinse	
	1	448.2	Vat	--	ENS "117"; Water Rinse	
	1	291.3	Vat	--	ENS "135"	
	1	134.5	Vat	--	ENS "134"; Hot Soak	
	1	33.6	Vat	--	ENS "113"; Black Trivalent Dip	
	1	67.2	Vat	--	ENS "114"	
	1	134.5	Vat	--	ENS "115"; Black Trivalent Dip	
	1	100.8	Vat	--	ENS "109"; Black Chromate	
	1	134.5	Vat	--	ENS "110"; Chromate Rinse	
	1	134.5	Vat	--	ENS "111"; Black Hexavalent Chromate Postdip	Sampling location WL-06
Line 4-7 Room	15	55.0	Drum (poly)	Unknown	No ENS	
Line 13 Room	1	30.0	Drum (poly)	Unknown	No ENS; Chromate Orange	
	1	30.0	Drum (poly)	Unknown	No ENS; NaS	
	1	55.0	Drum (poly)	Unknown	No ENS; Liquid/solid	
	1	55.0	Drum (poly)	Unknown	No ENS; Sulfuric Acid	Sampling location WL-10
	1	55.0	Drum (poly)	Unknown	No ENS; Lab Pack	
	1	55.0	Drum (poly)	Unknown	No ENS; Hydrogen Peroxide	
	2	55.0	Drum (poly)	Unknown	No ENS; Pit CN Silver	
	3	55.0	Drum (poly)	Unknown	No ENS; Ammonium Hydroxide	
	1	55.0	Drum (poly)	Unknown	No ENS; Used Silver	
	7	55.0	Drum (poly)	Unknown	No ENS; CN Hold	
	27	55.0	Drum (poly)	Unknown	No ENS	
	5	55.0	Drum (steel)	Unknown	No ENS	
	1	55.0	Drum (steel)	Unknown	No ENS; Flammable	
	1	55.0	Drum (steel)	Unknown	No ENS; Caustic Oil	
	2	85.0	Drum (steel)	Unknown	No ENS	
	8	350.0	Tote (poly)	Unknown	No ENS; Spent Acid	
	1	350.0	Tote (poly)	Unknown	No ENS; AP Carrier	
	2	350.0	Tote (poly)	Unknown	No ENS; Chrome Line	
	1	350.0	Tote (poly)	Unknown	No ENS; New Chromate	
	2	350.0	Tote (poly)	Unknown	No ENS; Spent HCl	
	1	350.0	Tote (poly)	Unknown	No ENS; IT-2 Polymer	
	1	350.0	Tote (poly)	Unknown	No ENS; T-11 Caustic	
	1	350.0	Tote (poly)	Unknown	No ENS; Brightener	
	1	350.0	Tote (poly)	Unknown	No ENS; Used Metal Line 8	
	1	350.0	Tote (poly)	Unknown	No ENS; Used Acid Line 13	

Table 3-1
Container Inventory
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Location	Quantity	Size (gallons)	Type of Container	Percent Full	Contents or Labeling	Comments
Line 13 Room (Continued)	1	350.0	Tote (poly)	Unknown	No ENS; Disposal Line 15	
	1	350.0	Tote (poly)	Unknown	No ENS; Corrosive	
	1	350.0	Tote (poly)	Unknown	No ENS; Used Acid	
	1	350.0	Tote (poly)	Unknown	No ENS; Hypo Blue Line 4	
	1	350.0	Tote (poly)	Unknown	No ENS; Tri-V Part A+B	
	1	350.0	Tote (poly)	Unknown	No ENS; Seal NC ₂	
	2	350.0	Tote (poly)	Unknown	No ENS; Black Line 13	
	1	350.0	Tote (poly)	Unknown	No ENS; Acid #2	
	1	350.0	Tote (poly)	Unknown	No ENS; CY Acid Pumpout	
	1	350.0	Tote (poly)	Unknown	No ENS; Used Acid Line 8	
	1	350.0	Tote (poly)	Unknown	No ENS; Used Tri-V 120	
	1	350.0	Tote (poly)	Unknown	No ENS; Yellow Chrome	
	2	350.0	Tote (poly)	Unknown	No ENS; Spent HCl Line 13	
	1	350.0	Tote (poly)	Unknown	No ENS; Hydroblue (good)	
	1	350.0	Tote (poly)	Unknown	No ENS; Coldip Tribblack	
	1	350.0	Tote (poly)	Unknown	No ENS; Post Dip for Line 4	
	1	350.0	Tote (poly)	Unknown	No ENS; Havacleaner / Yellow Chromate	
	2	350.0	Tote (poly)	Unknown	No ENS; Post Dip	
	2	350.0	Tote (poly)	Unknown	No ENS; Spent Acid Line 13	
	1	350.0	Tote (poly)	Unknown	No ENS; Water Rinse Line 13	
	2	350.0	Tote (poly)	Unknown	No ENS; Water from WW 2	
	1	350.0	Tote (poly)	Unknown	No ENS; Rinse B	
	21	350.0	Tote (poly)	Unknown	No ENS	
	1	800.0	Tank	Unknown	No ENS	
	1	300.0	Tank	Unknown	No ENS; Sulfuric Acid	
	1	650.0	Tank	Unknown	No ENS; N-1	
	1	650.0	Tank	Unknown	No ENS; N-2	
	1	400.0	Tank	Unknown	No ENS	
	1	Unknown	Tank	Unknown	No ENS; Wastewater Treatment Filter Press	
	1	2,000	Tank	Unknown	No ENS; Water Rinse Backwater	
	1	522.9	Vat	--	ENS "12"; Chrome Rinse	
	1	522.9	Vat	--	ENS "11"; Chrome Rinse	
	1	1,882.4	Vat	--	ENS "10"; Havilan Clean	
	1	1,882.4	Vat	--	ENS "9"	
	1	1,182.4	Vat	--	ENS "8"	
	1	201.7	Vat	--	ENS "13"; Havilan Soak	
	1	392.2	Vat	--	ENS "6"; Post Dip	
	1	392.2	Vat	--	ENS "5"; Rinse	
	1	2,196.2	Vat	--	ENS "4"; Yellow Chromate	
	1	915.1	Vat	--	ENS "3"; Yellow Hexavalent Chrome Pre-Dip	
	1	261.5	Vat	--	ENS "2"; Clear Hexavalent Chrome Rinse	
	3	20.0	Miscellaneous	Unknown	No ENS; Sodium Hydrosulfate	
	1	10.0	Miscellaneous	Unknown	No ENS; Die Cast Activator	
	2	Unknown	Plating Bath	Unknown	No ENS; Plating Sludge	
	1	--	Gas Cylinder	Unknown	No ENS; Oxygen	75-pound
Outside building	28	350	Tote (poly)	Unknown	ENS "28"	
	3	1,500	Tank	Unknown	No ENS; process tank	
	2	55	Drum (poly)	Unknown	No ENS	
Receiving	5	55	Drum (poly)	Unknown	No ENS	
	4	55	Drum (steel)	Unknown	No ENS	
	1	200	Tank	100	No ENS; HCl	Sampling Location WL-07
	1	7,500	Tank	Unknown	No ENS	Secondary containment
	1	--	Bag	100	No ENS; Alka2 40	1.25 Pallets of 50-pound bags
	2	5	Miscellaneous	Unknown	No ENS; Corrosive Tri-V Rejuvenated	
	13	5	Miscellaneous	Unknown	No ENS	

Notes:

"--" = Not Available

ENS = Existing Numbering System

Poly = Polyethylene

Table 4-1
Liquid Waste Sample Analytical Results
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Chemical Name	40 CFR ^a	Location ID	WL-01	WL-02	WL-03	WL-04	WL-05	WL-06	WL-07	WL-10	WL-11	WL-11
		Sample ID	BMF-WL01-121211	BMF-WL02-121211	BMF-WL03-121211	BMF-WL04-121211	BMF-WL05-121211	BMF-WL06-121211	BMF-WL07-121211	BMF-WL10-121211	BMF-WL11-121211	BMF-WL11-121211D
		Sampling Date	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
		Unit										
General Parameters												
pH	pH≤2; pH≥12.5	SU	10.6	12.1	2.4	< 2	11.2	8	< 2	< 2	6.9	6.8
Ignitability	<140	°F	> 212	> 212	> 212	> 212	> 212	> 212	> 212	> 212	NA	NA
Reactive cyanide	NL	mg/L	1 U	8,000	1 U	NA	140	1 U	NA	NA	1 U	1 U
Total Cyanide	NL	mg/L	4.5	15,000	73	NA	30,000	0.25 U	NA	NA	0.45	0.77
TAL Metals												
Aluminum	NL	mg/L	20 U	100 U	20 U	20 U	100 U	20 U	20 UJ	1 U	4.1	7.4
Antimony	NL	mg/L	3 U	15 U	3 U	3 U	15 U	0.6 U	0.6 U	0.15 U	0.15 U	0.15 U
Arsenic	NL	mg/L	2 U	10 U	2 U	2 U	10 U	0.4 U	0.4 U	0.1 U	0.04 U	0.04 U
Barium	NL	mg/L	2 U	10 U	2 U	2.8	10 U	0.4 U	1.3	0.1 U	0.092	0.12
Beryllium	NL	mg/L	1 U	5 U	1 U	1 U	5 U	0.2 U	0.2 U	0.05 U	0.02 U	0.02 U
Cadmium	NL	mg/L	79	47,000	2 U	310	10 U	0.4 U	6.2	0.32	0.17	0.24
Calcium	NL	mg/L	100 U	500 U	5,000	290	500 U	220	520	5 U	16	17
Chromium	NL	mg/L	2 U	10 U	2 U	66	10 U	0.4 U	80	0.28	2.8	4.2
Chromium, hexavalent	NL	mg/L	NA	NA	NA	NA	NA	0.01 UJ	NA	NA	0.01 UJ	0.022 J
Cobalt	NL	mg/L	2 U	10 U	3.3	2 U	10 U	0.4 U	7.2	0.1 U	0.04 U	0.04 U
Copper	NL	mg/L	230	450	5 U	690	130	1 U	3.9	0.25 U	4.1	5.2
Iron	NL	mg/L	50 U	740	67	9,400	420	10 U	830	17	120	270
Lead	NL	mg/L	150	5 U	1 U	16	5 U	0.2 U	0.99	0.05 U	0.32	0.74
Magnesium	NL	mg/L	50 U	250 U	1,500	74	250 U	75	96	2.5 U	1.9	2.5
Manganese	NL	mg/L	2 U	10 U	77	94	10 U	0.88	8.8	0.16	0.61	0.95
Mercury	NL	mg/L	0.006 U	0.006 U	0.006 U	0.037	0.06 U	0.006 U	0.006 U	0.006 U	0.0012 U	0.0012 U
Nickel	NL	mg/L	2 U	27	350	45	17	0.4 U	4.5	0.13	0.13	0.22
Potassium	NL	mg/L	20,000	480	520	1,000	960	10 U	78	2.5 U	16	16
Selenium	NL	mg/L	2 U	10 U	2 U	4.8	13	0.4 U	0.4 U	0.1 U	0.04 U	0.04 U
Silver	NL	mg/L	2 U	10 U	2 U	2 U	10 U	0.4 U	0.69	0.1 U	0.14	0.19
Sodium	NL	mg/L	52,000	110,000	1,600	1,000	170,000	2,100	240	8.6	7.7	7.4
Thallium	NL	mg/L	1 U	5 U	1 U	1 U	5 U	0.2 U	0.2 U	0.05 U	0.02 U	0.02 U
Vanadium	NL	mg/L	4 U	20 U	4 U	4 U	20 U	0.8 U	4 U	0.2 U	0.04 U	0.04 U
Zinc	NL	mg/L	260	370	15,000	21,000	130,000	2 U	4,900	6.5	24	34
PCBs												
Aroclor 1016	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0005 U	0.0005 U
Aroclor 1221	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0005 U	0.0005 U
Aroclor 1232	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0005 U	0.0005 U
Aroclor 1242	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0005 U	0.0005 U
Aroclor 1248	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0005 U	0.0005 U
Aroclor 1254	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0005 U	0.0005 U
Aroclor 1260	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0005 U	0.0005 U

Table 4-1
Liquid Waste Sample Analytical Results
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Chemical Name	40 CFR ^a	Location ID	WL-01	WL-02	WL-03	WL-04	WL-05	WL-06	WL-07	WL-10	WL-11	WL-11
		Sample ID	BMF-WL01-121211	BMF-WL02-121211	BMF-WL03-121211	BMF-WL04-121211	BMF-WL05-121211	BMF-WL06-121211	BMF-WL07-121211	BMF-WL10-121211	BMF-WL11-121211	BMF-WL11-121211D
		Sampling Date	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
		Unit										
VOCs												
1,1,1-Trichloroethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,1,2-Trichloroethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,1-Dichloroethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,1-Dichloroethene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,2-Dichloroethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,2-Dichloropropane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2-Butanone	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.02 U
2-Hexanone	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.02 U
4-Methyl-2-pentanone	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.02 U
Acetone	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.31	0.14
Benzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Bromodichloromethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Bromoform	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Bromomethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U
Carbon disulfide	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U
Carbon tetrachloride	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Chlorobenzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Chloroethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U
Chloroform	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Chloromethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U
cis-1,2-Dichloroethene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
cis-1,3-Dichloropropene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U
Dibromochloromethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Ethylbenzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Methyl tert-butyl ether	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Methylene chloride	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Styrene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Tetrachloroethene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Toluene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
trans-1,2-Dichloroethene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
trans-1,3-Dichloropropene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U
Trichloroethene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Vinyl chloride	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	0.002 U
Xylenes, Total	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.015 U	0.015 U

Table 4-1
Liquid Waste Sample Analytical Results
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Chemical Name	40 CFR ^a	Location ID	WL-01	WL-02	WL-03	WL-04	WL-05	WL-06	WL-07	WL-10	WL-11	WL-11
		Sample ID	BMF-WL01-121211	BMF-WL02-121211	BMF-WL03-121211	BMF-WL04-121211	BMF-WL05-121211	BMF-WL06-121211	BMF-WL07-121211	BMF-WL10-121211	BMF-WL11-121211	BMF-WL11-121211D
		Sampling Date	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
		Unit										
SVOCs												
1,2,4-Trichlorobenzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,2-Dichlorobenzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,3-Dichlorobenzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
1,4-Dichlorobenzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2, 2'-oxybis(1-Chloropropane)	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2,4,5-Trichlorophenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U
2,4,6-Trichlorophenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2,4-Dichlorophenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2,4-Dimethylphenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2,4-Dinitrophenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
2,4-Dinitrotoluene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2,6-Dinitrotoluene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2-Chloronaphthalene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2-Chlorophenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2-Methylnaphthalene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2-Methylphenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2-Nitroaniline	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
2-Nitrophenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
3,3'-Dichlorobenzidine	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U
3-Nitroaniline	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
4,6-Dinitro-2-methylphenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
4-Bromophenyl phenyl ether	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
4-Chloro-3-methylphenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
4-Chloroaniline	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
4-Chlorophenyl phenyl ether	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
4-Methylphenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
4-Nitroaniline	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
4-Nitrophenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
Acenaphthene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Acenaphthylene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Aniline	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
Anthracene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Benzo(a)anthracene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Benzdine	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
Benzo(a)pyrene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Benzo(b)fluoranthene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Benzo(g,h,i)perylene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Benzo(k)fluoranthene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Benzoic acid	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
Benzyl alcohol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U

Table 4-1
Liquid Waste Sample Analytical Results
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Chemical Name	40 CFR ^a	Location ID	WL-01	WL-02	WL-03	WL-04	WL-05	WL-06	WL-07	WL-10	WL-11	WL-11
		Sample ID	BMF-WL01-121211	BMF-WL02-121211	BMF-WL03-121211	BMF-WL04-121211	BMF-WL05-121211	BMF-WL06-121211	BMF-WL07-121211	BMF-WL10-121211	BMF-WL11-121211	BMF-WL11-121211D
		Sampling Date	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
		Unit										
Bis(2-chloroethoxy)methane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Bis(2-chloroethyl)ether	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Bis(2-ethylhexyl)phthalate	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.053	0.006 U
Butyl benzyl phthalate	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Carbazole	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Chrysene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Dibenzo(a,h)anthracene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Dibenzofuran	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Diethyl phthalate	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.085
Dimethyl phthalate	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Di-n-butyl phthalate	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Di-n-octyl phthalate	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Fluoranthene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Fluorene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Hexachlorobenzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Hexachlorobutadiene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Hexachlorocyclopentadiene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Hexachloroethane	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Indeno(1,2,3-cd)pyrene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Isophorone	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Naphthalene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Nitrobenzene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
N-Nitrosodimethylamine	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
N-Nitrosodi-n-propylamine	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
N-Nitrosodiphenylamine	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Pentachlorophenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.025 U	0.025 U
Phenanthrene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Phenol	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Pyrene	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
Pyridine	NL	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U

Notes:

Result exceeds 40 CFR screening criterion.

°F = Degree Fahrenheit

CFR = *Code of Federal Regulations*

ID = Identification

J = Estimated value

mg/L = Milligram per liter

NA = Not analyzed

NL = Not listed

PCB = Polychlorinated biphenyl

SU = Standard unit

SVOC = Semivolatile organic compound

TAL = Target Analyte List

U = Not detected; the associated numerical value is the reporting limit

UJ = Not detected at the estimated associated numerical reporting limit

VOC = Volatile organic compound

a From 40 CFR, Part 261, Subpart C

Table 4-2
Solid Waste Sample Analytical Results
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Chemical Name	40 CFR ^a	Location ID	WL-08	WL-09	WS-01	WS-02	WS-03	WS-04	WS-04
		Sample ID	BMF-WL08-121211	BMF-WL09-121211	BMF-WS01-121211	BMF-WS02-121211	BMF-WS03-121211	BMF-WS04-121211	BMF-WS04-121211-D
		Sampling Date	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
		Unit							
General Parameters									
pH	pH≤2; pH>12.5	SU	4.7	NA	8.8	< 2	3.2	6.9	6.9
Ignitability	<140	°F	< 32	> 212	> 212	> 212	> 212	> 212	> 212
Reactive cyanide	NL	mg/kg	NA	NA	5 U	NA	5 U	NA	NA
Total Cyanide	NL	mg/kg	NA	NA	1.3 U	1.3 U	27	170	170
TCLP Metals									
Arsenic, TCLP	5	mg/L	NA	NA	0.2 U	50 U	0.5 U	0.5 U	0.5 U
Barium, TCLP	100	mg/L	NA	NA	10 U	2,500 U	25 U	25 U	25 U
Cadmium, TCLP	1	mg/L	NA	NA	83	25 U	0.25 U	0.29	0.28
Chromium, TCLP	5	mg/L	NA	NA	0.2 U	20,000	420	300	380
Lead, TCLP	5	mg/L	NA	NA	0.25	25 U	0.25 U	0.25 U	0.25 U
Mercury, TCLP	0.2	mg/L	NA	NA	0.0012 U	0.0012 U	0.015	0.0012 U	0.0012 U
Selenium, TCLP	1	mg/L	NA	NA	0.2 U	50 U	0.5 U	0.5 U	0.5 U
Silver, TCLP	5	mg/L	NA	NA	0.2 U	50 U	0.5 U	0.5 U	0.5 U
TAL Metals									
Aluminum	NL	mg/kg	NA	NA	6,600	570 U	11,000	4,300	1,100
Antimony	NL	mg/kg	NA	NA	13 U	57 U	65 J	84 J	24 J
Arsenic	NL	mg/kg	NA	NA	6.4 U	28 U	13	29	15
Barium	NL	mg/kg	NA	NA	100	28 U	140	39	50
Beryllium	NL	mg/kg	NA	NA	3.2 U	14 U	12	4.2 U	4.4 U
Cadmium	NL	mg/kg	NA	NA	1,600	14 U	130	72	59
Calcium	NL	mg/kg	NA	NA	4,000	1,700 U	59,000	6,800	7,500
Chromium	NL	mg/kg	NA	NA	460	430,000	43,000	31,000	43,000
Cobalt	NL	mg/kg	NA	NA	140	28 U	6.7 U	8.4 U	8.8 U
Copper	NL	mg/kg	NA	NA	150	71 U	32,000	3,800	1,200
Iron	NL	mg/kg	NA	NA	13,000	850 U	48,000	4,700	6,300
Lead	NL	mg/kg	NA	NA	44	280 U	1,300	420 U	440 U
Magnesium	NL	mg/kg	NA	NA	1,900	850 U	3,700	730	1,100
Manganese	NL	mg/kg	NA	NA	380	28 U	540	37	38
Mercury	NL	mg/kg	NA	NA	0.14	0.017 U	0.61	0.19	0.12
Nickel	NL	mg/kg	NA	NA	110	28 U	160	37	29
Potassium	NL	mg/kg	NA	NA	300	850 U	3,600	1,200	1,800
Selenium	NL	mg/kg	NA	NA	6.4 U	30	12	42	43
Silver	NL	mg/kg	NA	NA	6.4 U	28 U	37	8.4 U	8.8 U
Sodium	NL	mg/kg	NA	NA	390	1,700 U	14,000	2,700	4,100
Thallium	NL	mg/kg	NA	NA	6.4 U	570 U	6.7 U	840 U	880 U
Vanadium	NL	mg/kg	NA	NA	40	28 U	6.7 U	8.4 U	8.8 U
Zinc	NL	mg/kg	NA	NA	490	2,800 U	10,000	460,000	470,000
PCBs									
Aroclor 1016	NL	mg/kg	NA	0.93 U	NA	NA	NA	NA	NA
Aroclor 1221	NL	mg/kg	NA	0.93 U	NA	NA	NA	NA	NA
Aroclor 1232	NL	mg/kg	NA	0.93 U	NA	NA	NA	NA	NA
Aroclor 1242	NL	mg/kg	NA	0.93 U	NA	NA	NA	NA	NA
Aroclor 1248	NL	mg/kg	NA	0.93 U	NA	NA	NA	NA	NA
Aroclor 1254	NL	mg/kg	NA	0.93 U	NA	NA	NA	NA	NA
Aroclor 1260	NL	mg/kg	NA	0.93 U	NA	NA	NA	NA	NA
VOCs									
1,1,1-Trichloroethane	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
2-Butanone	NL	mg/kg	110,000 U	NA	NA	NA	NA	NA	NA
2-Hexanone	NL	mg/kg	31,000 U	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NL	mg/kg	31,000 U	NA	NA	NA	NA	NA	NA
Acetone	NL	mg/kg	760,000	NA	NA	NA	NA	NA	NA
Benzene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA

Table 4-2
Solid Waste Sample Analytical Results
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Chemical Name	40 CFR ^a	Location ID	WL-08	WL-09	WS-01	WS-02	WS-03	WS-04	WS-04
		Sample ID	BMF-WL08-121211	BMF-WL09-121211	BMF-WS01-121211	BMF-WS02-121211	BMF-WS03-121211	BMF-WS04-121211	BMF-WS04-121211-D
		Sampling Date	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
		Unit							
Bromodichloromethane	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Bromoform	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Bromomethane	NL	mg/kg	15,000 U	NA	NA	NA	NA	NA	NA
Carbon disulfide	NL	mg/kg	76,000 U	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Chlorobenzene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Chloroethane	NL	mg/kg	15,000 U	NA	NA	NA	NA	NA	NA
Chloroform	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Chloromethane	NL	mg/kg	15,000 U	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NL	mg/kg	3,100 U	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Ethylbenzene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Methylene chloride	NL	mg/kg	15,000 U	NA	NA	NA	NA	NA	NA
Styrene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Toluene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NL	mg/kg	3,100 U	NA	NA	NA	NA	NA	NA
Trichloroethene	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Vinyl chloride	NL	mg/kg	7,600 U	NA	NA	NA	NA	NA	NA
Xylenes, Total	NL	mg/kg	23,000 U	NA	NA	NA	NA	NA	NA
SVOCs									
1,2,4-Trichlorobenzene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2, 2'-oxybis(1-Chloropropane)	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NL	mg/kg	94 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2-Methylphenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NL	mg/kg	94 U	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NL	mg/kg	94 U	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NL	mg/kg	94 U	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
4-Methylphenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NL	mg/kg	94 U	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NL	mg/kg	94 U	NA	NA	NA	NA	NA	NA
Acenaphthene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Acenaphthylene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Aniline	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Anthracene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Benzidine	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA

Table 4-2
Solid Waste Sample Analytical Results
Baycote Metal Finishing Site
Mishawaka, St. Joseph County, Indiana

Chemical Name	40 CFR ^a	Location ID	WL-08	WL-09	WS-01	WS-02	WS-03	WS-04	WS-04
		Sample ID	BMF-WL08-121211	BMF-WL09-121211	BMF-WS01-121211	BMF-WS02-121211	BMF-WS03-121211	BMF-WS04-121211	BMF-WS04-121211-D
		Sampling Date	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011
		Unit							
Benzo(g,h,i)perylene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Benzoic acid	NL	mg/kg	94 U	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Carbazole	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Chrysene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Dibenzofuran	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Fluoranthene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Fluorene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Hexachloroethane	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Isophorone	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Naphthalene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Nitrobenzene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NL	mg/kg	94 U	NA	NA	NA	NA	NA	NA
Phenanthrene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Phenol	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Pyrene	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA
Pyridine	NL	mg/kg	47 U	NA	NA	NA	NA	NA	NA

Notes:

Result exceeds 40 CFR screening criterion.

°F = Degree Fahrenheit

CFR = Code of Federal Regulations

ID = Identification

J = Estimated value

mg/kg = Milligram per kilogram

mg/L = Milligram per liter

NA = Not analyzed

NL = Not listed

PCB = Polychlorinated biphenyl

SU = Standard unit

TAL = Target Analyte List

TCLP = Toxicity Characteristic Leaching Procedure

U = Not detected; the associated numerical value is the reporting limit

UJ = Not detected at the estimated associated numerical reporting limit

VOC = Volatile organic compound

a From 40 CFR, Part 261, Subpart C

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION



Site: Baycote Metal Finishing Site
Photograph No.: 1
Direction: North
Subject: Plating line in Line 1-2-3 Room

Date: 12/13/11
Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site
Photograph No.: 2
Direction: East
Subject: 350-Gallon poly tote containing suspected cyanide liquid waste

Date: 12/13/11
Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site

Photograph No.: 3

Direction: North

Subject: 30-gallon steel drum of sodium cyanide

Date: 12/12/11

Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site

Photograph No.: 4

Direction: East

Subject: Vat labeled "Line 15 Black Hexavalent Chromate Postdip"

Date: 12/12/11

Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site

Photograph No.: 5

Direction: West

Subject: 5-gallon container of flammable liquid (sample BMF-WL08-121211)

Date: 12/12/11

Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site

Photograph No.: 6

Direction: North

Subject: Corroded steel drum stacked on broken pallet

Date: 12/12/11

Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site

Photograph No.: 7

Direction: Southeast

Subject: Yellow powder observed on floor of Solids Room

Date: 12/12/11

Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site

Photograph No.: 8

Direction: Southeast

Subject: Sample taken from yellow powder (BMF-WS04-121211)

Date: 12/12/11

Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site

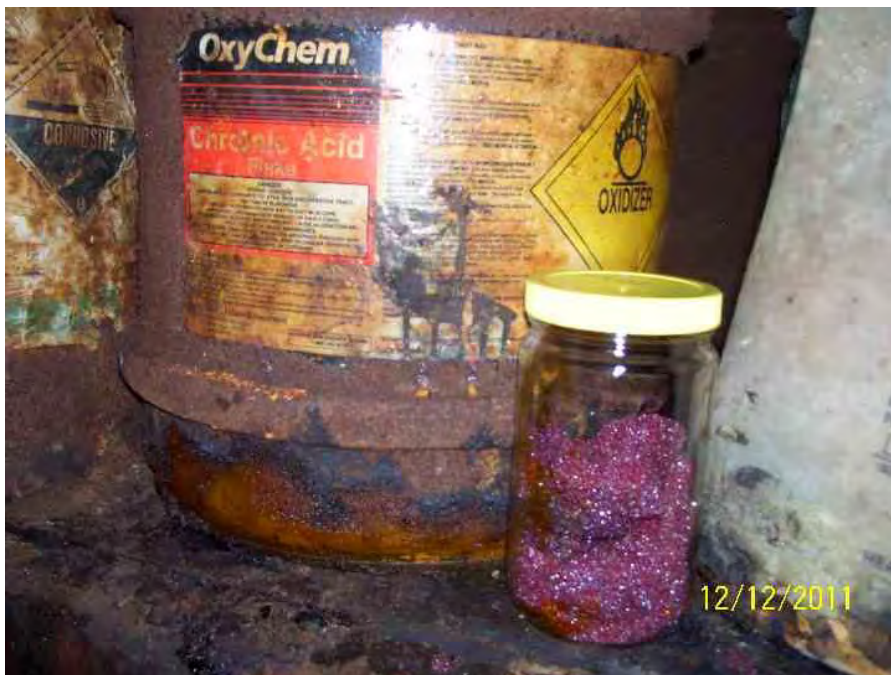
Photograph No.: 9

Direction: East

Subject: Deteriorated chromic acid drum in Solids Room

Date: 12/12/11

Photographer: Jonathan Colomb



Site: Baycote Metal Finishing Site

Photograph No.: 10

Direction: East

Subject: Sample taken from drum labeled "Chromic Acid" (BMF-WS02-121211)

Date: 12/12/11

Photographer: Jonathan Colomb

APPENDIX B
LABORATORY ANALYTICAL REPORT
AND DATA VALIDATION REPORT

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

December 22, 2011

Weston Solutions
20 North Wacker Drive
Suite 1210
Chicago, IL 60606
Telephone: (312) 424-3339
Fax: (312) 424-3330

RE: Baycote Metal Finishing

STAT Project No: 11120395

Dear Lisa Graczyk:

STAT Analysis received 17 samples for the referenced project on 12/13/2011 11:50:00 AM. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: Weston Solutions
Project: Baycote Metal Finishing
Lab Order: 11120395

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
11120395-001A	BMF-WL01-121211		12/12/2011 2:32:00 PM	12/13/2011
11120395-002A	BMF-WL02-121211		12/12/2011 2:34:00 PM	12/13/2011
11120395-003A	BMF-WL03-121211		12/12/2011 2:37:00 PM	12/13/2011
11120395-004A	BMF-WL04-121211		12/12/2011 2:50:00 PM	12/13/2011
11120395-005A	BMF-WL05-121211		12/12/2011 2:51:00 PM	12/13/2011
11120395-006A	BMF-WL06-121211		12/12/2011 2:55:00 PM	12/13/2011
11120395-007A	BMF-WL07-121211		12/12/2011 2:54:00 PM	12/13/2011
11120395-008A	BMF-WL08-121211		12/12/2011 2:40:00 PM	12/13/2011
11120395-009A	BMF-WL09-121211		12/12/2011 2:41:00 PM	12/13/2011
11120395-010A	BMF-WL10-121211		12/12/2011 2:59:00 PM	12/13/2011
11120395-011A	BMF-WL11-121211		12/12/2011 2:57:00 PM	12/13/2011
11120395-012A	BMF-WL11-121211D		12/12/2011 2:57:00 PM	12/13/2011
11120395-013A	BMF-WS01-121211		12/12/2011 2:44:00 PM	12/13/2011
11120395-014A	BMF-WS02-121211		12/12/2011 2:48:00 PM	12/13/2011
11120395-015A	BMF-WS03-121211		12/12/2011 2:38:00 PM	12/13/2011
11120395-016A	BMF-WS04-121211		12/12/2011 2:43:00 PM	12/13/2011
11120395-017A	BMF-WS04-121211-D		12/12/2011 2:43:00 PM	12/13/2011

CLIENT: Weston Solutions
Project: Baycote Metal Finishing
Lab Order: 11120395

CASE NARRATIVE

Total Cyanide was re-distilled and analyzed for samples BMF-WL11-121211 (11120395-011) and BMF-WL11-121211D (11120395-012) as initial results were inconsistent with each other. Subsample that had been retained, allowed TAL Metals analysis for both samples.

Flashpoint was not performed on samples BMF-WL11-121211 (11120395-011) and BMF-WL11-121211D (11120395-012).

Hexavalent Chromium was analyzed 4 hours outside of hold time.

The Hexavalent Chromium Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample BMF-WL06-121211 (11120395-006) had recovery outside control limits (0.5%/0.5% (MS/MSD) recovery, QC limits 75-125%).

The metals Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample BMF-WL07-121211 (11120395-007) had the following outside control limits:

Antimony: 139%/138% (MS/MSD) recovery (QC limits 75-125%)

Chromium: 205% (MSD) recovery (QC limits 75-125%)

The MS/MSD had recovery of other analytes outside of control limits, however the analyte concentration in the sample was greater than four times the spike level for those elements.

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-001

Client Sample ID: BMF-WL01-121211
 Collection Date: 12/12/2011 2:32:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	3		mg/L	100	12/16/2011
Arsenic	ND	2		mg/L	100	12/16/2011
Barium	ND	2		mg/L	100	12/16/2011
Beryllium	ND	1		mg/L	100	12/16/2011
Cadmium	79	2		mg/L	100	12/16/2011
Calcium	ND	100		mg/L	100	12/16/2011
Chromium	ND	2		mg/L	100	12/16/2011
Cobalt	ND	2		mg/L	100	12/16/2011
Copper	230	5		mg/L	100	12/16/2011
Iron	ND	50		mg/L	100	12/16/2011
Lead	150	1		mg/L	100	12/16/2011
Magnesium	ND	50		mg/L	100	12/16/2011
Manganese	ND	2		mg/L	100	12/16/2011
Nickel	ND	2		mg/L	100	12/16/2011
Potassium	20000	50		mg/L	100	12/16/2011
Selenium	ND	2		mg/L	100	12/16/2011
Silver	ND	2		mg/L	100	12/16/2011
Sodium	52000	150		mg/L	100	12/16/2011
Thallium	ND	1		mg/L	100	12/16/2011
Vanadium	ND	4		mg/L	100	12/16/2011
Zinc	260	10		mg/L	100	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	4.5	0.25		mg/L	1	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/14/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/14/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	10.6			pH units	1	12/13/2011

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-002

Client Sample ID: BMF-WL02-121211
 Collection Date: 12/12/2011 2:34:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	100		mg/L	100	12/16/2011
Antimony	ND	15		mg/L	100	12/16/2011
Arsenic	ND	10		mg/L	100	12/16/2011
Barium	ND	10		mg/L	100	12/16/2011
Beryllium	ND	5		mg/L	100	12/16/2011
Cadmium	47000	10		mg/L	100	12/16/2011
Calcium	ND	500		mg/L	100	12/16/2011
Chromium	ND	10		mg/L	100	12/16/2011
Cobalt	ND	10		mg/L	100	12/16/2011
Copper	450	25		mg/L	100	12/16/2011
Iron	740	250		mg/L	100	12/16/2011
Lead	ND	5		mg/L	100	12/16/2011
Magnesium	ND	250		mg/L	100	12/16/2011
Manganese	ND	10		mg/L	100	12/16/2011
Nickel	27	10		mg/L	100	12/16/2011
Potassium	480	250		mg/L	100	12/16/2011
Selenium	ND	10		mg/L	100	12/16/2011
Silver	ND	10		mg/L	100	12/16/2011
Sodium	110000	750		mg/L	100	12/16/2011
Thallium	ND	5		mg/L	100	12/16/2011
Vanadium	ND	20		mg/L	100	12/16/2011
Zinc	370	50		mg/L	100	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	15000	250		mg/L	1000	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	8000	1000		mg/L	1000	12/15/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/14/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/14/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	12.1			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-003

Client Sample ID: BMF-WL03-121211
 Collection Date: 12/12/2011 2:37:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	3		mg/L	100	12/16/2011
Arsenic	ND	2		mg/L	100	12/16/2011
Barium	ND	2		mg/L	100	12/16/2011
Beryllium	ND	1		mg/L	100	12/16/2011
Cadmium	ND	2		mg/L	100	12/16/2011
Calcium	5000	100		mg/L	100	12/16/2011
Chromium	ND	2		mg/L	100	12/16/2011
Cobalt	3.3	2		mg/L	100	12/16/2011
Copper	ND	5		mg/L	100	12/16/2011
Iron	67	50		mg/L	100	12/16/2011
Lead	ND	1		mg/L	100	12/16/2011
Magnesium	1500	50		mg/L	100	12/16/2011
Manganese	77	2		mg/L	100	12/16/2011
Nickel	350	2		mg/L	100	12/16/2011
Potassium	520	50		mg/L	100	12/16/2011
Selenium	ND	2		mg/L	100	12/16/2011
Silver	ND	2		mg/L	100	12/16/2011
Sodium	1600	150		mg/L	100	12/16/2011
Thallium	ND	1		mg/L	100	12/16/2011
Vanadium	ND	4		mg/L	100	12/16/2011
Zinc	15000	100		mg/L	1000	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	73	2.5		mg/L	10	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/14/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/14/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	2.4			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-004

Client Sample ID: BMF-WL04-121211
 Collection Date: 12/12/2011 2:50:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.037	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	3		mg/L	100	12/16/2011
Arsenic	ND	2		mg/L	100	12/16/2011
Barium	2.8	2		mg/L	100	12/16/2011
Beryllium	ND	1		mg/L	100	12/16/2011
Cadmium	310	2		mg/L	100	12/16/2011
Calcium	290	100		mg/L	100	12/16/2011
Chromium	66	2		mg/L	100	12/16/2011
Cobalt	ND	2		mg/L	100	12/16/2011
Copper	690	5		mg/L	100	12/16/2011
Iron	9400	50		mg/L	100	12/16/2011
Lead	16	1		mg/L	100	12/16/2011
Magnesium	74	50		mg/L	100	12/16/2011
Manganese	94	2		mg/L	100	12/16/2011
Nickel	45	2		mg/L	100	12/16/2011
Potassium	1000	50		mg/L	100	12/16/2011
Selenium	4.8	2		mg/L	100	12/16/2011
Silver	ND	2		mg/L	100	12/16/2011
Sodium	1000	150		mg/L	100	12/16/2011
Thallium	ND	1		mg/L	100	12/16/2011
Vanadium	ND	4		mg/L	100	12/16/2011
Zinc	21000	1000		mg/L	10000	12/16/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/15/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/15/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	<2.0			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-005

Client Sample ID: BMF-WL05-121211
 Collection Date: 12/12/2011 2:51:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.06		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	100		mg/L	100	12/16/2011
Antimony	ND	15		mg/L	100	12/16/2011
Arsenic	ND	10		mg/L	100	12/16/2011
Barium	ND	10		mg/L	100	12/16/2011
Beryllium	ND	5		mg/L	100	12/16/2011
Cadmium	ND	10		mg/L	100	12/16/2011
Calcium	ND	500		mg/L	100	12/16/2011
Chromium	ND	10		mg/L	100	12/16/2011
Cobalt	ND	10		mg/L	100	12/16/2011
Copper	130	25		mg/L	100	12/16/2011
Iron	420	250		mg/L	100	12/16/2011
Lead	ND	5		mg/L	100	12/16/2011
Magnesium	ND	250		mg/L	100	12/16/2011
Manganese	ND	10		mg/L	100	12/16/2011
Nickel	17	10		mg/L	100	12/16/2011
Potassium	960	250		mg/L	100	12/16/2011
Selenium	13	10		mg/L	100	12/16/2011
Silver	ND	10		mg/L	100	12/16/2011
Sodium	170000	750		mg/L	100	12/16/2011
Thallium	ND	5		mg/L	100	12/16/2011
Vanadium	ND	20		mg/L	100	12/16/2011
Zinc	130000	5000		mg/L	10000	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	30000	500		mg/L	2000	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	140	10		mg/L	10	12/15/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/15/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/15/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	11.2			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-006

Client Sample ID: BMF-WL06-121211
Collection Date: 12/12/2011 2:55:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	0.6		mg/L	20	12/16/2011
Arsenic	ND	0.4		mg/L	20	12/16/2011
Barium	ND	0.4		mg/L	20	12/16/2011
Beryllium	ND	0.2		mg/L	20	12/16/2011
Cadmium	ND	0.4		mg/L	20	12/16/2011
Calcium	220	100		mg/L	100	12/16/2011
Chromium	ND	0.4		mg/L	20	12/16/2011
Cobalt	ND	0.4		mg/L	20	12/16/2011
Copper	ND	1		mg/L	20	12/16/2011
Iron	ND	10		mg/L	20	12/16/2011
Lead	ND	0.2		mg/L	20	12/16/2011
Magnesium	75	50		mg/L	100	12/16/2011
Manganese	0.88	0.4		mg/L	20	12/16/2011
Nickel	ND	0.4		mg/L	20	12/16/2011
Potassium	ND	10		mg/L	20	12/16/2011
Selenium	ND	0.4		mg/L	20	12/16/2011
Silver	ND	0.4		mg/L	20	12/16/2011
Sodium	2100	150		mg/L	100	12/16/2011
Thallium	ND	0.2		mg/L	20	12/16/2011
Vanadium	ND	0.8		mg/L	20	12/16/2011
Zinc	ND	2		mg/L	20	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	ND	0.25		mg/L	1	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Hexavalent Chromium	SW7196A					Prep Date: Analyst: BPJ
Chromium, Hexavalent	ND	0.01	H	mg/L	1	12/13/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/15/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/15/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	8.0			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-007

Client Sample ID: BMF-WL07-121211
 Collection Date: 12/12/2011 2:54:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	0.6		mg/L	20	12/16/2011
Arsenic	ND	0.4		mg/L	20	12/16/2011
Barium	1.3	0.4		mg/L	20	12/16/2011
Beryllium	ND	0.2		mg/L	20	12/16/2011
Cadmium	6.2	0.4		mg/L	20	12/16/2011
Calcium	520	100		mg/L	100	12/16/2011
Chromium	80	0.4		mg/L	20	12/16/2011
Cobalt	7.2	0.4		mg/L	20	12/16/2011
Copper	3.9	1		mg/L	20	12/16/2011
Iron	830	50		mg/L	100	12/16/2011
Lead	0.99	0.2		mg/L	20	12/16/2011
Magnesium	96	50		mg/L	100	12/16/2011
Manganese	8.8	0.4		mg/L	20	12/16/2011
Nickel	4.5	0.4		mg/L	20	12/16/2011
Potassium	78	50		mg/L	100	12/16/2011
Selenium	ND	0.4		mg/L	20	12/16/2011
Silver	0.69	0.4		mg/L	20	12/16/2011
Sodium	240	150		mg/L	100	12/16/2011
Thallium	ND	0.2		mg/L	20	12/16/2011
Vanadium	ND	4		mg/L	100	12/16/2011
Zinc	4900	100		mg/L	1000	12/16/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/16/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/16/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	<2.0			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-008

Client Sample ID: BMF-WL08-121211
Collection Date: 12/12/2011 2:40:00 PM
Matrix: Organic Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3580A)		Prep Date: 12/13/2011		Analyst: DM
1,2,4-Trichlorobenzene	ND	47		mg/Kg	1	12/14/2011
1,2-Dichlorobenzene	ND	47		mg/Kg	1	12/14/2011
1,3-Dichlorobenzene	ND	47		mg/Kg	1	12/14/2011
1,4-Dichlorobenzene	ND	47		mg/Kg	1	12/14/2011
2, 2'-oxybis(1-Chloropropane)	ND	47		mg/Kg	1	12/14/2011
2,4,5-Trichlorophenol	ND	47		mg/Kg	1	12/14/2011
2,4,6-Trichlorophenol	ND	47		mg/Kg	1	12/14/2011
2,4-Dichlorophenol	ND	47		mg/Kg	1	12/14/2011
2,4-Dimethylphenol	ND	47		mg/Kg	1	12/14/2011
2,4-Dinitrophenol	ND	94		mg/Kg	1	12/14/2011
2,4-Dinitrotoluene	ND	47		mg/Kg	1	12/14/2011
2,6-Dinitrotoluene	ND	47		mg/Kg	1	12/14/2011
2-Chloronaphthalene	ND	47		mg/Kg	1	12/14/2011
2-Chlorophenol	ND	47		mg/Kg	1	12/14/2011
2-Methylnaphthalene	ND	47		mg/Kg	1	12/14/2011
2-Methylphenol	ND	47		mg/Kg	1	12/14/2011
2-Nitroaniline	ND	94		mg/Kg	1	12/14/2011
2-Nitrophenol	ND	47		mg/Kg	1	12/14/2011
3,3'-Dichlorobenzidine	ND	47		mg/Kg	1	12/14/2011
3-Nitroaniline	ND	94		mg/Kg	1	12/14/2011
4,6-Dinitro-2-methylphenol	ND	94		mg/Kg	1	12/14/2011
4-Bromophenyl phenyl ether	ND	47		mg/Kg	1	12/14/2011
4-Chloro-3-methylphenol	ND	47		mg/Kg	1	12/14/2011
4-Chloroaniline	ND	47		mg/Kg	1	12/14/2011
4-Chlorophenyl phenyl ether	ND	47		mg/Kg	1	12/14/2011
4-Methylphenol	ND	47		mg/Kg	1	12/14/2011
4-Nitroaniline	ND	94		mg/Kg	1	12/14/2011
4-Nitrophenol	ND	94		mg/Kg	1	12/14/2011
Acenaphthene	ND	47		mg/Kg	1	12/14/2011
Acenaphthylene	ND	47		mg/Kg	1	12/14/2011
Aniline	ND	47		mg/Kg	1	12/14/2011
Anthracene	ND	47		mg/Kg	1	12/14/2011
Benz(a)anthracene	ND	47		mg/Kg	1	12/14/2011
Benzidine	ND	47		mg/Kg	1	12/14/2011
Benzo(a)pyrene	ND	47		mg/Kg	1	12/14/2011
Benzo(b)fluoranthene	ND	47		mg/Kg	1	12/14/2011
Benzo(g,h,i)perylene	ND	47		mg/Kg	1	12/14/2011
Benzo(k)fluoranthene	ND	47		mg/Kg	1	12/14/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-008

Client Sample ID: BMF-WL08-121211
Collection Date: 12/12/2011 2:40:00 PM
Matrix: Organic Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3580A)		Prep Date: 12/13/2011 Analyst: DM			
Benzoic acid	ND	94		mg/Kg	1	12/14/2011
Benzyl alcohol	ND	47		mg/Kg	1	12/14/2011
Bis(2-chloroethoxy)methane	ND	47		mg/Kg	1	12/14/2011
Bis(2-chloroethyl)ether	ND	47		mg/Kg	1	12/14/2011
Bis(2-ethylhexyl)phthalate	ND	47		mg/Kg	1	12/14/2011
Butyl benzyl phthalate	ND	47		mg/Kg	1	12/14/2011
Carbazole	ND	47		mg/Kg	1	12/14/2011
Chrysene	ND	47		mg/Kg	1	12/14/2011
Di-n-butyl phthalate	ND	47		mg/Kg	1	12/14/2011
Di-n-octyl phthalate	ND	47		mg/Kg	1	12/14/2011
Dibenz(a,h)anthracene	ND	47		mg/Kg	1	12/14/2011
Dibenzofuran	ND	47		mg/Kg	1	12/14/2011
Diethyl phthalate	ND	47		mg/Kg	1	12/14/2011
Dimethyl phthalate	ND	47		mg/Kg	1	12/14/2011
Fluoranthene	ND	47		mg/Kg	1	12/14/2011
Fluorene	ND	47		mg/Kg	1	12/14/2011
Hexachlorobenzene	ND	47		mg/Kg	1	12/14/2011
Hexachlorobutadiene	ND	47		mg/Kg	1	12/14/2011
Hexachlorocyclopentadiene	ND	47		mg/Kg	1	12/14/2011
Hexachloroethane	ND	47		mg/Kg	1	12/14/2011
Indeno(1,2,3-cd)pyrene	ND	47		mg/Kg	1	12/14/2011
Isophorone	ND	47		mg/Kg	1	12/14/2011
N-Nitrosodi-n-propylamine	ND	47		mg/Kg	1	12/14/2011
N-Nitrosodimethylamine	ND	47		mg/Kg	1	12/14/2011
N-Nitrosodiphenylamine	ND	47		mg/Kg	1	12/14/2011
Naphthalene	ND	47		mg/Kg	1	12/14/2011
Nitrobenzene	ND	47		mg/Kg	1	12/14/2011
Pentachlorophenol	ND	94		mg/Kg	1	12/14/2011
Phenanthrene	ND	47		mg/Kg	1	12/14/2011
Phenol	ND	47		mg/Kg	1	12/14/2011
Pyrene	ND	47		mg/Kg	1	12/14/2011
Pyridine	ND	47		mg/Kg	1	12/14/2011
Volatile Organic Compounds by GC/MS						
	SW8260B		Prep Date: 12/14/2011 Analyst: ERP			
Acetone	760000	570000		mg/Kg	2500000	12/19/2011
Benzene	ND	7600		mg/Kg	500000	12/16/2011
Bromodichloromethane	ND	7600		mg/Kg	500000	12/16/2011
Bromoform	ND	7600		mg/Kg	500000	12/16/2011
Bromomethane	ND	15000		mg/Kg	500000	12/16/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-008

Client Sample ID: BMF-WL08-121211
Collection Date: 12/12/2011 2:40:00 PM
Matrix: Organic Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Volatile Organic Compounds by GC/MS**SW8260B**

Prep Date: 12/14/2011 Analyst: ERP

2-Butanone	ND	110000		mg/Kg	500000	12/16/2011
Carbon disulfide	ND	76000		mg/Kg	500000	12/16/2011
Carbon tetrachloride	ND	7600		mg/Kg	500000	12/16/2011
Chlorobenzene	ND	7600		mg/Kg	500000	12/16/2011
Chloroethane	ND	15000		mg/Kg	500000	12/16/2011
Chloroform	ND	7600		mg/Kg	500000	12/16/2011
Chloromethane	ND	15000		mg/Kg	500000	12/16/2011
Dibromochloromethane	ND	7600		mg/Kg	500000	12/16/2011
1,1-Dichloroethane	ND	7600		mg/Kg	500000	12/16/2011
1,2-Dichloroethane	ND	7600		mg/Kg	500000	12/16/2011
1,1-Dichloroethene	ND	7600		mg/Kg	500000	12/16/2011
cis-1,2-Dichloroethene	ND	7600		mg/Kg	500000	12/16/2011
trans-1,2-Dichloroethene	ND	7600		mg/Kg	500000	12/16/2011
1,2-Dichloropropane	ND	7600		mg/Kg	500000	12/16/2011
cis-1,3-Dichloropropene	ND	3100		mg/Kg	500000	12/16/2011
trans-1,3-Dichloropropene	ND	3100		mg/Kg	500000	12/16/2011
Ethylbenzene	ND	7600		mg/Kg	500000	12/16/2011
2-Hexanone	ND	31000		mg/Kg	500000	12/16/2011
4-Methyl-2-pentanone	ND	31000		mg/Kg	500000	12/16/2011
Methylene chloride	ND	15000		mg/Kg	500000	12/16/2011
Methyl tert-butyl ether	ND	7600		mg/Kg	500000	12/16/2011
Styrene	ND	7600		mg/Kg	500000	12/16/2011
1,1,2,2-Tetrachloroethane	ND	7600		mg/Kg	500000	12/16/2011
Tetrachloroethene	ND	7600		mg/Kg	500000	12/16/2011
Toluene	ND	7600		mg/Kg	500000	12/16/2011
1,1,1-Trichloroethane	ND	7600		mg/Kg	500000	12/16/2011
1,1,2-Trichloroethane	ND	7600		mg/Kg	500000	12/16/2011
Trichloroethene	ND	7600		mg/Kg	500000	12/16/2011
Vinyl chloride	ND	7600		mg/Kg	500000	12/16/2011
Xylenes, Total	ND	23000		mg/Kg	500000	12/16/2011

Flash Point (Closed Cup)**SW1010**

Prep Date: 12/16/2011 Analyst: RW

Flashpoint	<32		°F	1	12/16/2011
------------	-----	--	----	---	------------

pH (1:10, 25 °C)**SW9045C**

Prep Date: 12/13/2011 Analyst: RW

pH	4.7		pH Units	1	12/13/2011
----	-----	--	----------	---	------------

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-009

Client Sample ID: BMF-WL09-121211
Collection Date: 12/12/2011 2:41:00 PM
Matrix: Oil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs in Oil	SW8082 (SW3580A)					Prep Date: 12/13/2011 Analyst: GVC
Aroclor 1016	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1221	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1232	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1242	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1248	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1254	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1260	ND	0.93		mg/Kg	1	12/20/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/16/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/16/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-010

Client Sample ID: BMF-WL10-121211
 Collection Date: 12/12/2011 2:59:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	1		mg/L	5	12/16/2011
Antimony	ND	0.15		mg/L	5	12/16/2011
Arsenic	ND	0.1		mg/L	5	12/16/2011
Barium	ND	0.1		mg/L	5	12/16/2011
Beryllium	ND	0.05		mg/L	5	12/16/2011
Cadmium	0.32	0.1		mg/L	5	12/16/2011
Calcium	ND	5		mg/L	5	12/16/2011
Chromium	0.28	0.1		mg/L	5	12/16/2011
Cobalt	ND	0.1		mg/L	5	12/16/2011
Copper	ND	0.25		mg/L	5	12/16/2011
Iron	17	2.5		mg/L	5	12/16/2011
Lead	ND	0.05		mg/L	5	12/16/2011
Magnesium	ND	2.5		mg/L	5	12/16/2011
Manganese	0.16	0.1		mg/L	5	12/16/2011
Nickel	0.13	0.1		mg/L	5	12/16/2011
Potassium	ND	2.5		mg/L	5	12/16/2011
Selenium	ND	0.1		mg/L	5	12/16/2011
Silver	ND	0.1		mg/L	5	12/16/2011
Sodium	8.6	7.5		mg/L	5	12/16/2011
Thallium	ND	0.05		mg/L	5	12/16/2011
Vanadium	ND	0.2		mg/L	5	12/16/2011
Zinc	6.5	0.5		mg/L	5	12/16/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/16/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/16/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	<2.0			pH units	1	12/13/2011

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-011

Client Sample ID: BMF-WL11-121211
Collection Date: 12/12/2011 2:57:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3510C)			Prep Date: 12/14/2011 Analyst: GVC		
Aroclor 1016	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1221	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1232	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1242	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1248	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1254	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1260	ND	0.0005		mg/L	1	12/15/2011
Mercury						
	SW7470A			Prep Date: 12/21/2011 Analyst: LB		
Mercury	ND	0.0012		mg/L	1	12/21/2011
Metals by ICP/MS						
	SW6020 (SW3005A)			Prep Date: 12/21/2011 Analyst: JG		
Aluminum	4.1	0.4		mg/L	2	12/21/2011
Antimony	ND	0.15		mg/L	5	12/21/2011
Arsenic	ND	0.04		mg/L	2	12/21/2011
Barium	0.092	0.04		mg/L	2	12/21/2011
Beryllium	ND	0.02		mg/L	2	12/21/2011
Cadmium	0.17	0.02		mg/L	2	12/21/2011
Calcium	16	2		mg/L	2	12/21/2011
Chromium	2.8	0.04		mg/L	2	12/21/2011
Cobalt	ND	0.04		mg/L	2	12/21/2011
Copper	4.1	0.1		mg/L	2	12/21/2011
Iron	120	1		mg/L	2	12/21/2011
Lead	0.32	0.02		mg/L	2	12/21/2011
Magnesium	1.9	1		mg/L	2	12/21/2011
Manganese	0.61	0.04		mg/L	2	12/21/2011
Nickel	0.13	0.04		mg/L	2	12/21/2011
Potassium	16	1		mg/L	2	12/21/2011
Selenium	ND	0.04		mg/L	2	12/21/2011
Silver	0.14	0.04		mg/L	2	12/21/2011
Sodium	7.7	3		mg/L	2	12/21/2011
Thallium	ND	0.02		mg/L	2	12/21/2011
Vanadium	ND	0.04		mg/L	2	12/21/2011
Zinc	24	0.2		mg/L	2	12/21/2011
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3510C)			Prep Date: 12/14/2011 Analyst: DM		
Acenaphthene	ND	0.005		mg/L	1	12/14/2011
Acenaphthylene	ND	0.005		mg/L	1	12/14/2011
Aniline	ND	0.025		mg/L	1	12/14/2011
Anthracene	ND	0.005		mg/L	1	12/14/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-011

Client Sample ID: BMF-WL11-121211
 Collection Date: 12/12/2011 2:57:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3510C)		Prep Date: 12/14/2011 Analyst: DM		
Benz(a)anthracene	ND	0.005		mg/L	1	12/14/2011
Benzidine	ND	0.025		mg/L	1	12/14/2011
Benzo(a)pyrene	ND	0.005		mg/L	1	12/14/2011
Benzo(b)fluoranthene	ND	0.005		mg/L	1	12/14/2011
Benzo(g,h,i)perylene	ND	0.005		mg/L	1	12/14/2011
Benzo(k)fluoranthene	ND	0.005		mg/L	1	12/14/2011
Benzoic acid	ND	0.025		mg/L	1	12/14/2011
Benzyl alcohol	ND	0.005		mg/L	1	12/14/2011
Bis(2-chloroethoxy)methane	ND	0.005		mg/L	1	12/14/2011
Bis(2-chloroethyl)ether	ND	0.005		mg/L	1	12/14/2011
Bis(2-ethylhexyl)phthalate	0.053	0.006		mg/L	1	12/14/2011
4-Bromophenyl phenyl ether	ND	0.005		mg/L	1	12/14/2011
Butyl benzyl phthalate	ND	0.005		mg/L	1	12/14/2011
Carbazole	ND	0.005		mg/L	1	12/14/2011
4-Chloroaniline	ND	0.005		mg/L	1	12/14/2011
4-Chloro-3-methylphenol	ND	0.005		mg/L	1	12/14/2011
2-Chloronaphthalene	ND	0.005		mg/L	1	12/14/2011
2-Chlorophenol	ND	0.005		mg/L	1	12/14/2011
4-Chlorophenyl phenyl ether	ND	0.005		mg/L	1	12/14/2011
Chrysene	ND	0.005		mg/L	1	12/14/2011
Dibenz(a,h)anthracene	ND	0.005		mg/L	1	12/14/2011
Dibenzofuran	ND	0.005		mg/L	1	12/14/2011
1,2-Dichlorobenzene	ND	0.005		mg/L	1	12/14/2011
1,3-Dichlorobenzene	ND	0.005		mg/L	1	12/14/2011
1,4-Dichlorobenzene	ND	0.005		mg/L	1	12/14/2011
3,3'-Dichlorobenzidine	ND	0.01		mg/L	1	12/14/2011
2,4-Dichlorophenol	ND	0.005		mg/L	1	12/14/2011
Diethyl phthalate	ND	0.005		mg/L	1	12/14/2011
2,4-Dimethylphenol	ND	0.005		mg/L	1	12/14/2011
Dimethyl phthalate	ND	0.005		mg/L	1	12/14/2011
4,6-Dinitro-2-methylphenol	ND	0.025		mg/L	1	12/14/2011
2,4-Dinitrophenol	ND	0.025		mg/L	1	12/14/2011
2,4-Dinitrotoluene	ND	0.005		mg/L	1	12/14/2011
2,6-Dinitrotoluene	ND	0.005		mg/L	1	12/14/2011
Di-n-butyl phthalate	ND	0.005		mg/L	1	12/14/2011
Di-n-octyl phthalate	ND	0.005		mg/L	1	12/14/2011
Fluoranthene	ND	0.005		mg/L	1	12/14/2011
Fluorene	ND	0.005		mg/L	1	12/14/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-011

Client Sample ID: BMF-WL11-121211
 Collection Date: 12/12/2011 2:57:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3510C)			Prep Date: 12/14/2011		Analyst: DM
Hexachlorobenzene	ND	0.005		mg/L	1	12/14/2011
Hexachlorobutadiene	ND	0.005		mg/L	1	12/14/2011
Hexachlorocyclopentadiene	ND	0.005		mg/L	1	12/14/2011
Hexachloroethane	ND	0.005		mg/L	1	12/14/2011
Indeno(1,2,3-cd)pyrene	ND	0.005		mg/L	1	12/14/2011
Isophorone	ND	0.005		mg/L	1	12/14/2011
2-Methylnaphthalene	ND	0.005		mg/L	1	12/14/2011
2-Methylphenol	ND	0.005		mg/L	1	12/14/2011
4-Methylphenol	ND	0.005		mg/L	1	12/14/2011
Naphthalene	ND	0.005		mg/L	1	12/14/2011
2-Nitroaniline	ND	0.005		mg/L	1	12/14/2011
3-Nitroaniline	ND	0.025		mg/L	1	12/14/2011
4-Nitroaniline	ND	0.025		mg/L	1	12/14/2011
2-Nitrophenol	ND	0.005		mg/L	1	12/14/2011
4-Nitrophenol	ND	0.025		mg/L	1	12/14/2011
Nitrobenzene	ND	0.005		mg/L	1	12/14/2011
N-Nitrosodi-n-propylamine	ND	0.005		mg/L	1	12/14/2011
N-Nitrosodimethylamine	ND	0.005		mg/L	1	12/14/2011
N-Nitrosodiphenylamine	ND	0.005		mg/L	1	12/14/2011
2, 2'-oxybis(1-Chloropropane)	ND	0.005		mg/L	1	12/14/2011
Pentachlorophenol	ND	0.025		mg/L	1	12/14/2011
Phenanthrene	ND	0.005		mg/L	1	12/14/2011
Phenol	ND	0.005		mg/L	1	12/14/2011
Pyrene	ND	0.005		mg/L	1	12/14/2011
Pyridine	ND	0.005		mg/L	1	12/14/2011
1,2,4-Trichlorobenzene	ND	0.005		mg/L	1	12/14/2011
2,4,5-Trichlorophenol	ND	0.01		mg/L	1	12/14/2011
2,4,6-Trichlorophenol	ND	0.005		mg/L	1	12/14/2011
Volatile Organic Compounds by GC/MS						
	SW8260B (SW5030B)			Prep Date:		Analyst: ERP
Acetone	0.31	0.02		mg/L	1	12/15/2011
Benzene	ND	0.005		mg/L	1	12/15/2011
Bromodichloromethane	ND	0.005		mg/L	1	12/15/2011
Bromoform	ND	0.005		mg/L	1	12/15/2011
Bromomethane	ND	0.01		mg/L	1	12/15/2011
2-Butanone	ND	0.02		mg/L	1	12/15/2011
Carbon disulfide	ND	0.01		mg/L	1	12/15/2011
Carbon tetrachloride	ND	0.005		mg/L	1	12/15/2011
Chlorobenzene	ND	0.005		mg/L	1	12/15/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-011

Client Sample ID: BMF-WL11-121211
Collection Date: 12/12/2011 2:57:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
	SW8260B (SW5030B)			Prep Date:		Analyst: ERP
Chloroethane	ND	0.01		mg/L	1	12/15/2011
Chloroform	ND	0.005		mg/L	1	12/15/2011
Chloromethane	ND	0.01		mg/L	1	12/15/2011
Dibromochloromethane	ND	0.005		mg/L	1	12/15/2011
1,1-Dichloroethane	ND	0.005		mg/L	1	12/15/2011
1,2-Dichloroethane	ND	0.005		mg/L	1	12/15/2011
1,1-Dichloroethene	ND	0.005		mg/L	1	12/15/2011
cis-1,2-Dichloroethene	ND	0.005		mg/L	1	12/15/2011
trans-1,2-Dichloroethene	ND	0.005		mg/L	1	12/15/2011
1,2-Dichloropropane	ND	0.005		mg/L	1	12/15/2011
cis-1,3-Dichloropropene	ND	0.001		mg/L	1	12/15/2011
trans-1,3-Dichloropropene	ND	0.001		mg/L	1	12/15/2011
Ethylbenzene	ND	0.005		mg/L	1	12/15/2011
2-Hexanone	ND	0.02		mg/L	1	12/15/2011
4-Methyl-2-pentanone	ND	0.02		mg/L	1	12/15/2011
Methylene chloride	ND	0.005		mg/L	1	12/15/2011
Methyl tert-butyl ether	ND	0.005		mg/L	1	12/15/2011
Styrene	ND	0.005		mg/L	1	12/15/2011
1,1,2,2-Tetrachloroethane	ND	0.005		mg/L	1	12/15/2011
Tetrachloroethene	ND	0.005		mg/L	1	12/15/2011
Toluene	ND	0.005		mg/L	1	12/15/2011
1,1,1-Trichloroethane	ND	0.005		mg/L	1	12/15/2011
1,1,2-Trichloroethane	ND	0.005		mg/L	1	12/15/2011
Trichloroethene	ND	0.005		mg/L	1	12/15/2011
Vinyl chloride	ND	0.002		mg/L	1	12/15/2011
Xylenes, Total	ND	0.015		mg/L	1	12/15/2011
Cyanide, Total						
	SW9012A			Prep Date: 12/21/2011		Analyst: YZ
Cyanide	0.45	0.25		mg/L	1	12/21/2011
Cyanide, Reactive						
	SW7.3.3.2			Prep Date: 12/14/2011		Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Hexavalent Chromium						
	SW7196A			Prep Date:		Analyst: BPJ
Chromium, Hexavalent	ND	0.01	H	mg/L	1	12/13/2011
pH						
	E150.1			Prep Date: 12/13/2011		Analyst: MNG
pH	6.9			pH units	1	12/13/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-012

Client Sample ID: BMF-WL11-121211D
Collection Date: 12/12/2011 2:57:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3510C)			Prep Date: 12/14/2011 Analyst: GVC		
Aroclor 1016	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1221	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1232	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1242	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1248	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1254	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1260	ND	0.0005		mg/L	1	12/15/2011
Mercury						
	SW7470A			Prep Date: 12/21/2011 Analyst: LB		
Mercury	ND	0.0012		mg/L	1	12/21/2011
Metals by ICP/MS						
	SW6020 (SW3005A)			Prep Date: 12/21/2011 Analyst: JG		
Aluminum	7.4	0.4		mg/L	2	12/21/2011
Antimony	ND	0.15		mg/L	5	12/21/2011
Arsenic	ND	0.04		mg/L	2	12/21/2011
Barium	0.12	0.04		mg/L	2	12/21/2011
Beryllium	ND	0.02		mg/L	2	12/21/2011
Cadmium	0.24	0.02		mg/L	2	12/21/2011
Calcium	17	2		mg/L	2	12/21/2011
Chromium	4.2	0.04		mg/L	2	12/21/2011
Cobalt	ND	0.04		mg/L	2	12/21/2011
Copper	5.2	0.1		mg/L	2	12/21/2011
Iron	270	2.5		mg/L	5	12/21/2011
Lead	0.74	0.02		mg/L	2	12/21/2011
Magnesium	2.5	1		mg/L	2	12/21/2011
Manganese	0.95	0.04		mg/L	2	12/21/2011
Nickel	0.22	0.04		mg/L	2	12/21/2011
Potassium	16	1		mg/L	2	12/21/2011
Selenium	ND	0.04		mg/L	2	12/21/2011
Silver	0.19	0.04		mg/L	2	12/21/2011
Sodium	7.4	3		mg/L	2	12/21/2011
Thallium	ND	0.02		mg/L	2	12/21/2011
Vanadium	ND	0.04		mg/L	2	12/21/2011
Zinc	34	0.2		mg/L	2	12/21/2011
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3510C)			Prep Date: 12/14/2011 Analyst: DM		
Acenaphthene	ND	0.005		mg/L	1	12/16/2011
Acenaphthylene	ND	0.005		mg/L	1	12/16/2011
Aniline	ND	0.025		mg/L	1	12/16/2011
Anthracene	ND	0.005		mg/L	1	12/16/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-012

Client Sample ID: BMF-WL11-121211D
 Collection Date: 12/12/2011 2:57:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3510C)		Prep Date: 12/14/2011		Analyst: DM
Benz(a)anthracene	ND	0.005		mg/L	1	12/16/2011
Benzidine	ND	0.025		mg/L	1	12/16/2011
Benzo(a)pyrene	ND	0.005		mg/L	1	12/16/2011
Benzo(b)fluoranthene	ND	0.005		mg/L	1	12/16/2011
Benzo(g,h,i)perylene	ND	0.005		mg/L	1	12/16/2011
Benzo(k)fluoranthene	ND	0.005		mg/L	1	12/16/2011
Benzoic acid	ND	0.025		mg/L	1	12/16/2011
Benzyl alcohol	ND	0.005		mg/L	1	12/16/2011
Bis(2-chloroethoxy)methane	ND	0.005		mg/L	1	12/16/2011
Bis(2-chloroethyl)ether	ND	0.005		mg/L	1	12/16/2011
Bis(2-ethylhexyl)phthalate	ND	0.006		mg/L	1	12/16/2011
4-Bromophenyl phenyl ether	ND	0.005		mg/L	1	12/16/2011
Butyl benzyl phthalate	ND	0.005		mg/L	1	12/16/2011
Carbazole	ND	0.005		mg/L	1	12/16/2011
4-Chloroaniline	ND	0.005		mg/L	1	12/16/2011
4-Chloro-3-methylphenol	ND	0.005		mg/L	1	12/16/2011
2-Chloronaphthalene	ND	0.005		mg/L	1	12/16/2011
2-Chlorophenol	ND	0.005		mg/L	1	12/16/2011
4-Chlorophenyl phenyl ether	ND	0.005		mg/L	1	12/16/2011
Chrysene	ND	0.005		mg/L	1	12/16/2011
Dibenz(a,h)anthracene	ND	0.005		mg/L	1	12/16/2011
Dibenzofuran	ND	0.005		mg/L	1	12/16/2011
1,2-Dichlorobenzene	ND	0.005		mg/L	1	12/16/2011
1,3-Dichlorobenzene	ND	0.005		mg/L	1	12/16/2011
1,4-Dichlorobenzene	ND	0.005		mg/L	1	12/16/2011
3,3'-Dichlorobenzidine	ND	0.01		mg/L	1	12/16/2011
2,4-Dichlorophenol	ND	0.005		mg/L	1	12/16/2011
Diethyl phthalate	0.085	0.005		mg/L	1	12/16/2011
2,4-Dimethylphenol	ND	0.005		mg/L	1	12/16/2011
Dimethyl phthalate	ND	0.005		mg/L	1	12/16/2011
4,6-Dinitro-2-methylphenol	ND	0.025		mg/L	1	12/16/2011
2,4-Dinitrophenol	ND	0.025		mg/L	1	12/16/2011
2,4-Dinitrotoluene	ND	0.005		mg/L	1	12/16/2011
2,6-Dinitrotoluene	ND	0.005		mg/L	1	12/16/2011
Di-n-butyl phthalate	ND	0.005		mg/L	1	12/16/2011
Di-n-octyl phthalate	ND	0.005		mg/L	1	12/16/2011
Fluoranthene	ND	0.005		mg/L	1	12/16/2011
Fluorene	ND	0.005		mg/L	1	12/16/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-012

Client Sample ID: BMF-WL11-121211D
 Collection Date: 12/12/2011 2:57:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3510C)			Prep Date: 12/14/2011	Analyst: DM	
Hexachlorobenzene	ND	0.005		mg/L	1	12/16/2011
Hexachlorobutadiene	ND	0.005		mg/L	1	12/16/2011
Hexachlorocyclopentadiene	ND	0.005		mg/L	1	12/16/2011
Hexachloroethane	ND	0.005		mg/L	1	12/16/2011
Indeno(1,2,3-cd)pyrene	ND	0.005		mg/L	1	12/16/2011
Isophorone	ND	0.005		mg/L	1	12/16/2011
2-Methylnaphthalene	ND	0.005		mg/L	1	12/16/2011
2-Methylphenol	ND	0.005		mg/L	1	12/16/2011
4-Methylphenol	ND	0.005		mg/L	1	12/16/2011
Naphthalene	ND	0.005		mg/L	1	12/16/2011
2-Nitroaniline	ND	0.005		mg/L	1	12/16/2011
3-Nitroaniline	ND	0.025		mg/L	1	12/16/2011
4-Nitroaniline	ND	0.025		mg/L	1	12/16/2011
2-Nitrophenol	ND	0.005		mg/L	1	12/16/2011
4-Nitrophenol	ND	0.025		mg/L	1	12/16/2011
Nitrobenzene	ND	0.005		mg/L	1	12/16/2011
N-Nitrosodi-n-propylamine	ND	0.005		mg/L	1	12/16/2011
N-Nitrosodimethylamine	ND	0.005		mg/L	1	12/16/2011
N-Nitrosodiphenylamine	ND	0.005		mg/L	1	12/16/2011
2, 2'-oxybis(1-Chloropropane)	ND	0.005		mg/L	1	12/16/2011
Pentachlorophenol	ND	0.025		mg/L	1	12/16/2011
Phenanthrene	ND	0.005		mg/L	1	12/16/2011
Phenol	ND	0.005		mg/L	1	12/16/2011
Pyrene	ND	0.005		mg/L	1	12/16/2011
Pyridine	ND	0.005		mg/L	1	12/16/2011
1,2,4-Trichlorobenzene	ND	0.005		mg/L	1	12/16/2011
2,4,5-Trichlorophenol	ND	0.01		mg/L	1	12/16/2011
2,4,6-Trichlorophenol	ND	0.005		mg/L	1	12/16/2011
Volatile Organic Compounds by GC/MS						
	SW8260B (SW5030B)			Prep Date:	Analyst: PS	
Acetone	0.14	0.02		mg/L	1	12/19/2011
Benzene	ND	0.005		mg/L	1	12/19/2011
Bromodichloromethane	ND	0.005		mg/L	1	12/19/2011
Bromoform	ND	0.005		mg/L	1	12/19/2011
Bromomethane	ND	0.01		mg/L	1	12/19/2011
2-Butanone	ND	0.02		mg/L	1	12/19/2011
Carbon disulfide	ND	0.01		mg/L	1	12/19/2011
Carbon tetrachloride	ND	0.005		mg/L	1	12/19/2011
Chlorobenzene	ND	0.005		mg/L	1	12/19/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-012

Client Sample ID: BMF-WL11-121211D
 Collection Date: 12/12/2011 2:57:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
	SW8260B (SW5030B)			Prep Date:		Analyst: PS
Chloroethane	ND	0.01		mg/L	1	12/19/2011
Chloroform	ND	0.005		mg/L	1	12/19/2011
Chloromethane	ND	0.01		mg/L	1	12/19/2011
Dibromochloromethane	ND	0.005		mg/L	1	12/19/2011
1,1-Dichloroethane	ND	0.005		mg/L	1	12/19/2011
1,2-Dichloroethane	ND	0.005		mg/L	1	12/19/2011
1,1-Dichloroethene	ND	0.005		mg/L	1	12/19/2011
cis-1,2-Dichloroethene	ND	0.005		mg/L	1	12/19/2011
trans-1,2-Dichloroethene	ND	0.005		mg/L	1	12/19/2011
1,2-Dichloropropane	ND	0.005		mg/L	1	12/19/2011
cis-1,3-Dichloropropene	ND	0.001		mg/L	1	12/19/2011
trans-1,3-Dichloropropene	ND	0.001		mg/L	1	12/19/2011
Ethylbenzene	ND	0.005		mg/L	1	12/19/2011
2-Hexanone	ND	0.02		mg/L	1	12/19/2011
4-Methyl-2-pentanone	ND	0.02		mg/L	1	12/19/2011
Methylene chloride	ND	0.005		mg/L	1	12/19/2011
Methyl tert-butyl ether	ND	0.005		mg/L	1	12/19/2011
Styrene	ND	0.005		mg/L	1	12/19/2011
1,1,2,2-Tetrachloroethane	ND	0.005		mg/L	1	12/19/2011
Tetrachloroethene	ND	0.005		mg/L	1	12/19/2011
Toluene	ND	0.005		mg/L	1	12/19/2011
1,1,1-Trichloroethane	ND	0.005		mg/L	1	12/19/2011
1,1,2-Trichloroethane	ND	0.005		mg/L	1	12/19/2011
Trichloroethene	ND	0.005		mg/L	1	12/19/2011
Vinyl chloride	ND	0.002		mg/L	1	12/19/2011
Xylenes, Total	ND	0.015		mg/L	1	12/19/2011
Cyanide, Total						
	SW9012A			Prep Date: 12/21/2011		Analyst: YZ
Cyanide	0.77	0.25		mg/L	1	12/21/2011
Cyanide, Reactive						
	SW7.3.3.2			Prep Date: 12/14/2011		Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Hexavalent Chromium						
	SW7196A			Prep Date:		Analyst: BPJ
Chromium, Hexavalent	0.022	0.01	H	mg/L	1	12/13/2011
pH						
	E150.1			Prep Date: 12/13/2011		Analyst: MNG
pH	6.8			pH units	1	12/13/2011

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-013

Client Sample ID: BMF-WS01-121211
 Collection Date: 12/12/2011 2:44:00 PM
 Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.14	0.019		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/15/2011 Analyst: JG
Aluminum	6600	130		mg/Kg-dry	20	12/15/2011
Antimony	ND	13		mg/Kg-dry	20	12/15/2011
Arsenic	ND	6.4		mg/Kg-dry	20	12/15/2011
Barium	100	6.4		mg/Kg-dry	20	12/15/2011
Beryllium	ND	3.2		mg/Kg-dry	20	12/15/2011
Cadmium	1600	3.2		mg/Kg-dry	20	12/15/2011
Calcium	4000	380		mg/Kg-dry	20	12/15/2011
Chromium	460	6.4		mg/Kg-dry	20	12/15/2011
Cobalt	140	6.4		mg/Kg-dry	20	12/15/2011
Copper	150	16		mg/Kg-dry	20	12/15/2011
Iron	13000	190		mg/Kg-dry	20	12/15/2011
Lead	44	3.2		mg/Kg-dry	20	12/15/2011
Magnesium	1900	190		mg/Kg-dry	20	12/15/2011
Manganese	380	6.4		mg/Kg-dry	20	12/15/2011
Nickel	110	6.4		mg/Kg-dry	20	12/15/2011
Potassium	300	190		mg/Kg-dry	20	12/15/2011
Selenium	ND	6.4		mg/Kg-dry	20	12/15/2011
Silver	ND	6.4		mg/Kg-dry	20	12/15/2011
Sodium	390	380		mg/Kg-dry	20	12/15/2011
Thallium	ND	6.4		mg/Kg-dry	20	12/15/2011
Vanadium	40	6.4		mg/Kg-dry	20	12/15/2011
Zinc	490	32		mg/Kg-dry	20	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)					Prep Date: 12/15/2011 Analyst: JG
Arsenic	ND	0.2		mg/L	100	12/16/2011
Barium	ND	10		mg/L	100	12/16/2011
Cadmium	83	0.1		mg/L	100	12/16/2011
Chromium	ND	0.2		mg/L	100	12/16/2011
Lead	0.25	0.1		mg/L	100	12/16/2011
Selenium	ND	0.2		mg/L	100	12/16/2011
Silver	ND	0.2		mg/L	100	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	5		mg/Kg	1	12/15/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-013

Client Sample ID: BMF-WS01-121211
Collection Date: 12/12/2011 2:44:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	ND	1.3		mg/Kg-dry	1	12/16/2011
Flash Point (Open-Cup)	SW1010(M)					Prep Date: 12/13/2011 Analyst: RW
Flashpoint	No flash up to 212		*	°F	1	12/13/2011
pH (25 °C)	SW9045C					Prep Date: 12/14/2011 Analyst: MNG
pH	8.8			pH Units	1	12/14/2011
Percent Moisture	D2974					Prep Date: 12/14/2011 Analyst: PBG
Percent Moisture	0.2	0.2	*	wt%	1	12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-014

Client Sample ID: BMF-WS02-121211
Collection Date: 12/12/2011 2:48:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.017		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/15/2011 Analyst: JG
Aluminum	ND	570		mg/Kg-dry	100	12/15/2011
Antimony	ND	57		mg/Kg-dry	100	12/15/2011
Arsenic	ND	28		mg/Kg-dry	100	12/15/2011
Barium	ND	28		mg/Kg-dry	100	12/15/2011
Beryllium	ND	14		mg/Kg-dry	100	12/15/2011
Cadmium	ND	14		mg/Kg-dry	100	12/15/2011
Calcium	ND	1700		mg/Kg-dry	100	12/15/2011
Chromium	430000	570		mg/Kg-dry	2000	12/15/2011
Cobalt	ND	28		mg/Kg-dry	100	12/15/2011
Copper	ND	71		mg/Kg-dry	100	12/15/2011
Iron	ND	850		mg/Kg-dry	100	12/15/2011
Lead	ND	280		mg/Kg-dry	2000	12/15/2011
Magnesium	ND	850		mg/Kg-dry	100	12/15/2011
Manganese	ND	28		mg/Kg-dry	100	12/15/2011
Nickel	ND	28		mg/Kg-dry	100	12/15/2011
Potassium	ND	850		mg/Kg-dry	100	12/15/2011
Selenium	30	28		mg/Kg-dry	100	12/15/2011
Silver	ND	28		mg/Kg-dry	100	12/15/2011
Sodium	ND	1700		mg/Kg-dry	100	12/15/2011
Thallium	ND	570		mg/Kg-dry	2000	12/15/2011
Vanadium	ND	28		mg/Kg-dry	100	12/15/2011
Zinc	ND	2800		mg/Kg-dry	2000	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)					Prep Date: 12/15/2011 Analyst: JG
Arsenic	ND	50		mg/L	10000	12/16/2011
Barium	ND	2500		mg/L	10000	12/16/2011
Cadmium	ND	25		mg/L	10000	12/16/2011
Chromium	20000	50		mg/L	10000	12/16/2011
Lead	ND	25		mg/L	10000	12/16/2011
Selenium	ND	50		mg/L	10000	12/16/2011
Silver	ND	50		mg/L	10000	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	ND	1.3		mg/Kg-dry	1	12/16/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-014

Client Sample ID: BMF-WS02-121211
Collection Date: 12/12/2011 2:48:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Flash Point (Open-Cup)	SW1010(M)					
Flashpoint	No flash up to 212		*	°F	1	Prep Date: 12/13/2011 Analyst: RW 12/13/2011
pH (25 °C)	SW9045C					
pH	<2.0			pH Units	1	Prep Date: 12/14/2011 Analyst: MNG 12/14/2011
Percent Moisture	D2974					
Percent Moisture	1.3	0.2	*	wt%	1	Prep Date: 12/13/2011 Analyst: PBG 12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-015

Client Sample ID: BMF-WS03-121211
Collection Date: 12/12/2011 2:38:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.015	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.61	0.021		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/15/2011 Analyst: JG
Aluminum	11000	130		mg/Kg-dry	20	12/15/2011
Antimony	65	13		mg/Kg-dry	20	12/15/2011
Arsenic	13	6.7		mg/Kg-dry	20	12/15/2011
Barium	140	6.7		mg/Kg-dry	20	12/15/2011
Beryllium	12	3.4		mg/Kg-dry	20	12/15/2011
Cadmium	130	3.4		mg/Kg-dry	20	12/15/2011
Calcium	59000	400		mg/Kg-dry	20	12/15/2011
Chromium	43000	670		mg/Kg-dry	2000	12/15/2011
Cobalt	ND	6.7		mg/Kg-dry	20	12/15/2011
Copper	32000	1700		mg/Kg-dry	2000	12/15/2011
Iron	48000	20000		mg/Kg-dry	2000	12/15/2011
Lead	1300	3.4		mg/Kg-dry	20	12/15/2011
Magnesium	3700	200		mg/Kg-dry	20	12/15/2011
Manganese	540	6.7		mg/Kg-dry	20	12/15/2011
Nickel	160	6.7		mg/Kg-dry	20	12/15/2011
Potassium	3600	200		mg/Kg-dry	20	12/15/2011
Selenium	12	6.7		mg/Kg-dry	20	12/15/2011
Silver	37	6.7		mg/Kg-dry	20	12/15/2011
Sodium	14000	400		mg/Kg-dry	20	12/15/2011
Thallium	ND	6.7		mg/Kg-dry	20	12/15/2011
Vanadium	ND	6.7		mg/Kg-dry	20	12/15/2011
Zinc	10000	3400		mg/Kg-dry	2000	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)					Prep Date: 12/15/2011 Analyst: JG
Arsenic	ND	0.5		mg/L	100	12/16/2011
Barium	ND	25		mg/L	100	12/16/2011
Cadmium	ND	0.25		mg/L	100	12/16/2011
Chromium	420	0.5		mg/L	100	12/16/2011
Lead	ND	0.25		mg/L	100	12/16/2011
Selenium	ND	0.5		mg/L	100	12/16/2011
Silver	ND	0.5		mg/L	100	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	5		mg/Kg	1	12/15/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-015

Client Sample ID: BMF-WS03-121211
Collection Date: 12/12/2011 2:38:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	27	1.4		mg/Kg-dry	1	12/16/2011
Flash Point (Open-Cup)	SW1010(M)					Prep Date: 12/13/2011 Analyst: RW
Flashpoint	No flash up to 212		*	°F	1	12/13/2011
pH (25 °C)	SW9045C					Prep Date: 12/14/2011 Analyst: MNG
pH	3.2			pH Units	1	12/14/2011
Percent Moisture	D2974					Prep Date: 12/13/2011 Analyst: PBG
Percent Moisture	7.8	0.2	*	wt%	1	12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-016

Client Sample ID: BMF-WS04-121211
Collection Date: 12/12/2011 2:43:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.19	0.024		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/15/2011 Analyst: JG
Aluminum	4300	170		mg/Kg-dry	20	12/15/2011
Antimony	84	17		mg/Kg-dry	20	12/15/2011
Arsenic	29	8.4		mg/Kg-dry	20	12/15/2011
Barium	39	8.4		mg/Kg-dry	20	12/15/2011
Beryllium	ND	4.2		mg/Kg-dry	20	12/15/2011
Cadmium	72	4.2		mg/Kg-dry	20	12/15/2011
Calcium	6800	500		mg/Kg-dry	20	12/15/2011
Chromium	31000	840		mg/Kg-dry	2000	12/15/2011
Cobalt	ND	8.4		mg/Kg-dry	20	12/15/2011
Copper	3800	21		mg/Kg-dry	20	12/15/2011
Iron	4700	250		mg/Kg-dry	20	12/15/2011
Lead	ND	420		mg/Kg-dry	2000	12/15/2011
Magnesium	730	250		mg/Kg-dry	20	12/15/2011
Manganese	37	8.4		mg/Kg-dry	20	12/15/2011
Nickel	37	8.4		mg/Kg-dry	20	12/15/2011
Potassium	1200	250		mg/Kg-dry	20	12/15/2011
Selenium	42	8.4		mg/Kg-dry	20	12/15/2011
Silver	ND	8.4		mg/Kg-dry	20	12/15/2011
Sodium	2700	500		mg/Kg-dry	20	12/15/2011
Thallium	ND	840		mg/Kg-dry	2000	12/15/2011
Vanadium	ND	8.4		mg/Kg-dry	20	12/15/2011
Zinc	460000	4200		mg/Kg-dry	2000	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)					Prep Date: 12/15/2011 Analyst: JG
Arsenic	ND	0.5		mg/L	100	12/16/2011
Barium	ND	25		mg/L	100	12/16/2011
Cadmium	0.29	0.25		mg/L	100	12/16/2011
Chromium	300	0.5		mg/L	100	12/16/2011
Lead	ND	0.25		mg/L	100	12/16/2011
Selenium	ND	0.5		mg/L	100	12/16/2011
Silver	ND	0.5		mg/L	100	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	170	3.4		mg/Kg-dry	2	12/16/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-016

Client Sample ID: BMF-WS04-121211
Collection Date: 12/12/2011 2:43:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Flash Point (Open-Cup)	SW1010(M)					
Flashpoint	No flash up to 212		*	°F	1	Prep Date: 12/13/2011 Analyst: RW 12/13/2011
pH (25 °C)	SW9045C					
pH	6.9			pH Units	1	Prep Date: 12/14/2011 Analyst: MNG 12/14/2011
Percent Moisture	D2974					
Percent Moisture	27.5	0.2	*	wt%	1	Prep Date: 12/13/2011 Analyst: PBG 12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-017

Client Sample ID: BMF-WS04-121211-D
Collection Date: 12/12/2011 2:43:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.12	0.026		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/15/2011 Analyst: JG
Aluminum	1100	180		mg/Kg-dry	20	12/15/2011
Antimony	24	18		mg/Kg-dry	20	12/15/2011
Arsenic	15	8.8		mg/Kg-dry	20	12/15/2011
Barium	50	8.8		mg/Kg-dry	20	12/15/2011
Beryllium	ND	4.4		mg/Kg-dry	20	12/15/2011
Cadmium	59	4.4		mg/Kg-dry	20	12/15/2011
Calcium	7500	530		mg/Kg-dry	20	12/15/2011
Chromium	43000	880		mg/Kg-dry	2000	12/15/2011
Cobalt	ND	8.8		mg/Kg-dry	20	12/15/2011
Copper	1200	22		mg/Kg-dry	20	12/15/2011
Iron	6300	270		mg/Kg-dry	20	12/15/2011
Lead	ND	440		mg/Kg-dry	2000	12/15/2011
Magnesium	1100	270		mg/Kg-dry	20	12/15/2011
Manganese	38	8.8		mg/Kg-dry	20	12/15/2011
Nickel	29	8.8		mg/Kg-dry	20	12/15/2011
Potassium	1800	270		mg/Kg-dry	20	12/15/2011
Selenium	43	8.8		mg/Kg-dry	20	12/15/2011
Silver	ND	8.8		mg/Kg-dry	20	12/15/2011
Sodium	4100	530		mg/Kg-dry	20	12/15/2011
Thallium	ND	880		mg/Kg-dry	2000	12/15/2011
Vanadium	ND	8.8		mg/Kg-dry	20	12/15/2011
Zinc	470000	4400		mg/Kg-dry	2000	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)					Prep Date: 12/15/2011 Analyst: JG
Arsenic	ND	0.5		mg/L	100	12/16/2011
Barium	ND	25		mg/L	100	12/16/2011
Cadmium	0.28	0.25		mg/L	100	12/16/2011
Chromium	380	0.5		mg/L	100	12/16/2011
Lead	ND	0.25		mg/L	100	12/16/2011
Selenium	ND	0.5		mg/L	100	12/16/2011
Silver	ND	0.5		mg/L	100	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	170	1.8		mg/Kg-dry	1	12/16/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-017

Client Sample ID: BMF-WS04-121211-D
Collection Date: 12/12/2011 2:43:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Flash Point (Open-Cup)	SW1010(M)					
Flashpoint	No flash up to 212		*	°F	1	Prep Date: 12/13/2011 Analyst: RW 12/13/2011
pH (25 °C)	SW9045C					
pH	6.9			pH Units	1	Prep Date: 12/14/2011 Analyst: MNG 12/14/2011
Percent Moisture	D2974					
Percent Moisture	29.3	0.2	*	wt%	1	Prep Date: 12/13/2011 Analyst: PBG 12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

CHAIN OF CUSTODY RECORD

N^o: 841238 Page: 1 of 1

Company: Leeson Solutions, Inc.
 Project Number: _____ Client Tracking No.: _____
 Project Name: Baycock Metal Finishing
 Project Location: Mishawaka, IN
 Sampler(s): Jeff Blawiecki & Jon Coleman
 Report To: Lisa Cieszyk Phone: 312-424-3339
 QC Level: 1 2 3 4 e-mail: _____ Fax: _____

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Corrosivity	TCLP Metals	Recl. Metals	NOES	NOES Cycles	NOES Hexavalent Chromium	Remarks	Lab No.	Turn Around:	Results Needed:
BMF-WL01-121211	12/12/11	1432	WL		X	-	1	X	X	X	X	X	X		001	3-DAY	12/16/11 am/pm
BMF-WL02-121211		1434			X	-	1	X	X	X	X	X	X		002		
BMF-WL03-121211		1437			X	-	1	X	X	X	X	X	X		003		
BMF-WL04-121211		1450			X	-	1	X	X	X	X	X	X		004	*Strong Acid	
BMF-WL05-121211		1451			X	-	1	X	X	X	X	X	X		005		
BMF-WL06-121211		1455			X	-	1	X	X	X	X	X	X		006		
BMF-WL07-121211		1454			X	-	1	X	X	X	X	X	X		007	*Strong Acid	
BMF-WL08-121211		1440			X	-	1	X	X	X	X	X	X		008	*Five Acids	
BMF-WL09-121211		1441			X	-	1	X	X	X	X	X	X		009		
BMF-WL10-121211		1459			X	-	1	X	X	X	X	X	X		010	*Possible Sulfuric	
BMF-WL11-121211		1457			X	-	1	X	X	X	X	X	X		011		
BMF-WL11-121211-D		1457	↓		X	-	1	X	X	X	X	X	X		012		
BMF-WL11-121211		1444	S		X	-	1	X	X	X	X	X	X		013		
BMF-WL12-121211		1448	↓		X	-	1	X	X	X	X	X	X		014		
BMF-WL13-121211		1438	↓		X	-	1	X	X	X	X	X	X		015		
BMF-WL14-121211		1443	↓		X	-	1	X	X	X	X	X	X		016		
BMF-WL15-121211-D		1443	↓		X	-	1	X	X	X	X	X	X		017		

Relinquished by: (Signature) _____ Date/Time: 12/13/11
 Received by: (Signature) _____ Date/Time: 12/13/11 1150
 Relinquished by: (Signature) _____ Date/Time: _____
 Received by: (Signature) _____ Date/Time: _____
 Relinquished by: (Signature) _____ Date/Time: _____
 Received by: (Signature) _____ Date/Time: _____

Comments: _____
 Laboratory Work Order No.: 1120395
 Received on Ice: Yes ☒ No ☐
 Temperature: 24 °C
 Preservation Code: A = None B = HNO₃ C = NaOH
 D = H₂SO₄ E = HCl F = 5035/EnCore G = Other

Sample Receipt Checklist

Client Name WESTON CHICAGO

Date and Time Received: 12/13/2011 11:50:00 AM

Work Order Number 11120395

Received by: CDF

Checklist completed by:

[Signature] 12/13/11
Signature Date

Reviewed by:

Cb 12/16/11
Initials Date

Matrix:

Carrier name Client Delivered

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 type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" 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/containers?	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 or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature 2.4 °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person
contacted: _____

Date contacted: _____

Contacted by: _____

Response: _____

STAT Analysis Corporation

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing
Test No: SW8260B

Matrix: S

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VBLK121611-3	94.2	98.5	104	101				
VLCS121611-3	98.0	103	107	98.3				
VLCS121611-3	101	103	106	94.5				
11120395-008A:5000	92.5	99.7	104	99.4				
VBLK121911-3	94.2	99.1	110	112				
VLCS121911-3	101	103	108	99.4				
VLCS121911-3	101	102	108	105				
11120395-008A:2500	94.0	99.8	109	109				

Acronym	Surrogate	QC Limits
BR4FBZ	= 4-Bromofluorobenzene	63-110
BZMED8	= Toluene-d8	85-110
DBFM	= Dibromofluoromethane	83-119
DCA12D4	= 1,2-Dichloroethane-d4	84-129

* Surrogate recovery outside acceptance limits

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77175

Sample ID	VBLK121611-3	SampType: MBLK	TestCode: VOC_ENC	Units: mg/Kg	Prep Date:	Run ID: VOA-3_111216A					
Client ID: ZZZZZ	Batch ID: R77175	TestNo: SW5035/8260	Analysis Date: 12/16/2011	SeqNo: 2072499							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.075									
2-Hexanone	ND	0.020									
4-Methyl-2-pentanone	ND	0.020									
Acetone	ND	0.075									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.050									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0020									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	0.00199	0.010									J
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77175

Sample ID	VBLK121611-3	SampType:	MBLK	TestCode:	VOC_ENC	Units:	mg/Kg	Prep Date:		Run ID:	VOA-3_111216A		
Client ID:	ZZZZZ	Batch ID:	R77175	TestNo:	SW5035/8260			Analysis Date:	12/16/2011	SeqNo:	2072499		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,3-Dichloropropene
Trichloroethene
Vinyl chloride
Xylenes, Total

ND
ND
ND
ND

0.0020
0.0050
0.0050
0.015

Sample ID	VLCS121611-3	SampType:	LCS	TestCode:	VOC_ENC	Units:	mg/Kg	Prep Date:		Run ID:	VOA-3_111216A		
Client ID:	ZZZZZ	Batch ID:	R77175	TestNo:	SW5035/8260			Analysis Date:	12/16/2011	SeqNo:	2072500		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
2-Butanone
2-Hexanone
4-Methyl-2-pentanone
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene

0.04448
0.04321
0.04461
0.048
0.04682
0.04833
0.04723
0.07687
0.07881
0.08987
0.08806
0.04676
0.04825
0.0406
0.05613
0.1024
0.04251
0.0466
0.051
0.04784
0.04447
0.05038

0.0050
0.0050
0.0050
0.0050
0.0050
0.0050
0.0050
0.075
0.020
0.020
0.075
0.0050
0.0050
0.0050
0.010
0.050
0.0050
0.0050
0.010
0.0050
0.010
0.0050

0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.1
0.1
0.1
0.1
0.05
0.05
0.05
0.05
0.1
0.05
0.05
0.05
0.05
0.05
0.05

89
86.4
89.2
96
93.6
96.7
94.5
76.9
78.8
89.9
88.1
93.5
96.5
81.2
112
102
85
93.2
102
95.7
88.9
101

70
70
70
70
70
70
70
70
70
70
70
50
70
70
70
70
70
70
70
70
70
70
70

130
130
130
130
130
130
130
130
130
130
130
150
130
130
130
130
130
130
130
130
130
130
130

0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77175

Sample ID	VLCS121611-3	SampType:	LCS	TestCode:	VOC_ENC	Units:	mg/Kg	Prep Date:		Run ID:	VOA-3_111216A
Client ID:	ZZZZZ	Batch ID:	R77175	TestNo:	SW5035/8260			Analysis Date:	12/16/2011	SeqNo:	2072500
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.05024	0.0020	0.05	0	100	70	130	0	0		
Dibromochloromethane	0.04568	0.0050	0.05	0	91.4	70	130	0	0		
Ethylbenzene	0.04669	0.0050	0.05	0	93.4	70	130	0	0		
Methyl tert-butyl ether	0.0551	0.0050	0.05	0	110	70	130	0	0		
Methylene chloride	0.05232	0.010	0.05	0.00199	101	70	130	0	0		
Styrene	0.04894	0.0050	0.05	0	97.9	70	130	0	0		
Tetrachloroethene	0.04113	0.0050	0.05	0	82.3	70	130	0	0		
Toluene	0.04589	0.0050	0.05	0	91.8	70	130	0	0		
trans-1,2-Dichloroethene	0.04804	0.0050	0.05	0	96.1	70	130	0	0		
trans-1,3-Dichloropropene	0.05074	0.0020	0.05	0	101	70	130	0	0		
Trichloroethene	0.04387	0.0050	0.05	0	87.7	70	130	0	0		
Vinyl chloride	0.03897	0.0050	0.05	0	77.9	70	130	0	0		
Xylenes, Total	0.1405	0.015	0.15	0	93.7	70	130	0	0		

Sample ID	VLCS121611-3	SampType:	LCS	TestCode:	VOC_ENC	Units:	mg/Kg	Prep Date:		Run ID:	VOA-3_111216A
Client ID:	ZZZZZ	Batch ID:	R77175	TestNo:	SW5035/8260			Analysis Date:	12/16/2011	SeqNo:	2072502
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04385	0.0050	0.05	0	87.7	70	130	0.04448	1.43	20	
1,1,2,2-Tetrachloroethane	0.04716	0.0050	0.05	0	94.3	70	130	0.04321	8.74	20	
1,1,2-Trichloroethane	0.04743	0.0050	0.05	0	94.9	70	130	0.04461	6.13	20	
1,1-Dichloroethane	0.0479	0.0050	0.05	0	95.8	70	130	0.048	0.209	20	
1,1-Dichloroethene	0.04657	0.0050	0.05	0	93.1	70	130	0.04682	0.535	20	
1,2-Dichloroethane	0.05013	0.0050	0.05	0	100	70	130	0.04833	3.66	20	
1,2-Dichloropropane	0.04759	0.0050	0.05	0	95.2	70	130	0.04723	0.759	20	
2-Butanone	0.08634	0.075	0.1	0	86.3	70	130	0.07687	11.6	20	
2-Hexanone	0.08514	0.020	0.1	0	85.1	70	130	0.07881	7.72	20	
4-Methyl-2-pentanone	0.0927	0.020	0.1	0	92.7	70	130	0.08987	3.10	20	
Acetone	0.09173	0.075	0.1	0	91.7	50	150	0.08806	4.08	20	
Benzene	0.04692	0.0050	0.05	0	93.8	70	130	0.04676	0.342	20	
Bromodichloromethane	0.04968	0.0050	0.05	0	99.4	70	130	0.04825	2.92	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77175

Sample ID	VLCSD121611-3	SampType:	LCSD	TestCode:	VOC_ENC	Units:	mg/Kg	Prep Date:		Run ID:	VOA-3_111216A
Client ID:	ZZZZZ	Batch ID:	R77175	TestNo:	SW5035/8260			Analysis Date:	12/16/2011	SeqNo:	2072502
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04244	0.0050	0.05	0	84.9	70	130	0.0406	4.43	20	
Bromomethane	0.04907	0.010	0.05	0	98.1	70	130	0.05613	13.4	20	
Carbon disulfide	0.1015	0.050	0.1	0	101	70	130	0.1024	0.971	20	
Carbon tetrachloride	0.04205	0.0050	0.05	0	84.1	70	130	0.04251	1.09	20	
Chlorobenzene	0.04714	0.0050	0.05	0	94.3	70	130	0.0466	1.15	20	
Chloroethane	0.05219	0.010	0.05	0	104	70	130	0.051	2.31	20	
Chloroform	0.04789	0.0050	0.05	0	95.8	70	130	0.04784	0.104	20	
Chloromethane	0.04435	0.010	0.05	0	88.7	70	130	0.04447	0.270	20	
cis-1,2-Dichloroethene	0.04962	0.0050	0.05	0	99.2	70	130	0.05038	1.52	20	
cis-1,3-Dichloropropene	0.04968	0.0020	0.05	0	99.4	70	130	0.05024	1.12	20	
Dibromochloromethane	0.04815	0.0050	0.05	0	96.3	70	130	0.04568	5.26	20	
Ethylbenzene	0.04696	0.0050	0.05	0	93.9	70	130	0.04669	0.577	20	
Methyl tert-butyl ether	0.05651	0.0050	0.05	0	113	70	130	0.0551	2.53	20	
Methylene chloride	0.05019	0.010	0.05	0.00199	96.4	70	130	0.05232	4.16	20	
Styrene	0.04915	0.0050	0.05	0	98.3	70	130	0.04894	0.428	20	
Tetrachloroethene	0.04179	0.0050	0.05	0	83.6	70	130	0.04113	1.59	20	
Toluene	0.04551	0.0050	0.05	0	91	70	130	0.04589	0.832	20	
trans-1,2-Dichloroethene	0.04579	0.0050	0.05	0	91.6	70	130	0.04804	4.80	20	
trans-1,3-Dichloropropene	0.05199	0.0020	0.05	0	104	70	130	0.05074	2.43	20	
Trichloroethene	0.04384	0.0050	0.05	0	87.7	70	130	0.04387	0.0684	20	
Vinyl chloride	0.03862	0.0050	0.05	0	77.2	70	130	0.03897	0.902	20	
Xylenes, Total	0.1391	0.015	0.15	0	92.7	70	130	0.1405	1.02	20	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77238

Sample ID: VBLK121911-3	SampType: MBLK	TestCode: VOC_ENCORG	Units: mg/Kg	Prep Date:	Run ID: VOA-3_111219A
Client ID: ZZZZZ	Batch ID: R77238	TestNo: SW5035/8260		Analysis Date: 12/19/2011	SeqNo: 2074349
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Acetone ND 0.075

Sample ID: VLCS121911-3	SampType: LCS	TestCode: VOC_ENCORG	Units: mg/Kg	Prep Date:	Run ID: VOA-3_111219A
Client ID: ZZZZZ	Batch ID: R77238	TestNo: SW5035/8260		Analysis Date: 12/19/2011	SeqNo: 2074351
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Acetone 0.1136 0.075 0.1 0 114 50 150 0 0

Sample ID: VLCS121911-3	SampType: LCS	TestCode: VOC_ENCORG	Units: mg/Kg	Prep Date:	Run ID: VOA-3_111219A
Client ID: ZZZZZ	Batch ID: R77238	TestNo: SW5035/8260		Analysis Date: 12/19/2011	SeqNo: 2074355
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Acetone 0.1251 0.075 0.1 0 125 50 150 0.1136 9.60 20

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing
Test No: SW8260B

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VBLK121511-7	95.9	96.3	95.7	101				
VLCS121511-7	102	98.7	99.6	96.7				
VLCS121511-7	101	100	102	106				
11120395-011A	94.8	93.8	95.6	101				
VBLK121911-7	97.5	98.0	96.1	110				
VLCS121911-7	104	98.6	101	107				
VLCS121911-7	101	98.6	98.4	93.3				
11120395-012A	99.6	96.9	99.7	109				

Acronym	Surrogate	QC Limits
BR4FBZ	= 4-Bromofluorobenzene	86-115
BZMED8	= Toluene-d8	88-110
DBFM	= Dibromofluoromethane	86-118
DCA12D4	= 1,2-Dichloroethane-d4	80-120

* Surrogate recovery outside acceptance limits

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77222

Sample ID: VBLK121911-7	SampType: MBLK	TestCode: VOC_W+	Units: mg/L	Prep Date:	Run ID: VOA-7_111219A						
Client ID: ZZZZZ	Batch ID: R77222	TestNo: SW8260B		Analysis Date: 12/19/2011	SeqNo: 2073862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	ND	0.0050
1,1,2,2-Tetrachloroethane	ND	0.0050
1,1,2-Trichloroethane	ND	0.0050
1,1-Dichloroethane	ND	0.0050
1,1-Dichloroethene	ND	0.0050
1,2-Dichloroethane	ND	0.0050
1,2-Dichloropropane	ND	0.0050
2-Butanone	ND	0.020
2-Hexanone	ND	0.020
4-Methyl-2-pentanone	ND	0.020
Acetone	ND	0.020
Benzene	ND	0.0050
Bromodichloromethane	ND	0.0050
Bromoform	ND	0.0050
Bromomethane	ND	0.010
Carbon disulfide	ND	0.010
Carbon tetrachloride	ND	0.0050
Chlorobenzene	ND	0.0050
Chloroethane	ND	0.010
Chloroform	ND	0.0050
Chloromethane	ND	0.010
cis-1,2-Dichloroethene	ND	0.0050
cis-1,3-Dichloropropene	ND	0.0010
Dibromochloromethane	ND	0.0050
Ethylbenzene	ND	0.0050
Methyl tert-butyl ether	ND	0.0050
Methylene chloride	ND	0.0050
Styrene	ND	0.0050
Tetrachloroethene	ND	0.0050
Toluene	ND	0.0050
trans-1,2-Dichloroethene	ND	0.0050

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77222

Sample ID: VBLK121911-7	SampType: MBLK	TestCode: VOC_W+	Units: mg/L	Prep Date:	Run ID: VOA-7_111219A						
Client ID: ZZZZZ	Batch ID: R77222	TestNo: SW8260B		Analysis Date: 12/19/2011	SeqNo: 2073862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,3-Dichloropropene
Trichloroethene
Vinyl chloride
Xylenes, Total

ND
ND
ND
ND

0.0010
0.0050
0.0020
0.015

Sample ID: VLCS121911-7	SampType: LCS	TestCode: VOC_W+	Units: mg/L	Prep Date:	Run ID: VOA-7_111219A						
Client ID: ZZZZZ	Batch ID: R77222	TestNo: SW8260B		Analysis Date: 12/19/2011	SeqNo: 2073863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
2-Butanone
2-Hexanone
4-Methyl-2-pentanone
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene

0.04698
0.05396
0.04802
0.04311
0.04292
0.04392
0.04479
0.09758
0.09928
0.09475
0.09248
0.04628
0.04866
0.05037
0.02718
0.09426
0.04735
0.05157
0.04776
0.04578
0.03604
0.04649

0.0050
0.0050
0.0050
0.0050
0.0050
0.0050
0.0050
0.020
0.020
0.020
0.020
0.0050
0.0050
0.0050
0.010
0.010
0.0050
0.010
0.0050
0.010
0.0050

0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.1
0.1
0.1
0.1
0.05
0.05
0.05
0.05
0.1
0.05
0.05
0.05
0.05
0.05
0.05

0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

94
108
96
86.2
85.8
87.8
89.6
97.6
99.3
94.8
92.5
92.6
97.3
101
54.4
94.3
94.7
103
95.5
91.6
72.1
93

70
70
70
70
70
70
70
70
70
70
50
70
70
70
70
70
70
70
70
70
70

130
130
130
130
130
130
130
130
130
130
150
130
130
130
130
130
130
130
130
130
130

0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77222

Sample ID: VLCS121911-7	SampType: LCS	TestCode: VOC_W+	Units: mg/L	Prep Date:	Run ID: VOA-7_111219A						
Client ID: ZZZZZ	Batch ID: R77222	TestNo: SW8260B	Analysis Date: 12/19/2011	SeqNo: 2073863							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

cis-1,3-Dichloropropene	0.05177	0.0010	0.05	0	104	70	130	0	0		
Dibromochloromethane	0.05286	0.0050	0.05	0	106	70	130	0	0		
Ethylbenzene	0.05012	0.0050	0.05	0	100	70	130	0	0		
Methyl tert-butyl ether	0.05162	0.0050	0.05	0	103	50	150	0	0		
Methylene chloride	0.04824	0.0050	0.05	0	96.5	70	130	0	0		
Styrene	0.04969	0.0050	0.05	0	99.4	70	130	0	0		
Tetrachloroethene	0.04733	0.0050	0.05	0	94.7	70	130	0	0		
Toluene	0.0455	0.0050	0.05	0	91	70	130	0	0		
trans-1,2-Dichloroethene	0.04437	0.0050	0.05	0	88.7	70	130	0	0		
trans-1,3-Dichloropropene	0.05408	0.0010	0.05	0	108	70	130	0	0		
Trichloroethene	0.04685	0.0050	0.05	0	93.7	70	130	0	0		
Vinyl chloride	0.03764	0.0020	0.05	0	75.3	70	130	0	0		
Xylenes, Total	0.1504	0.015	0.15	0	100	70	130	0	0		

Sample ID: VLCS D121911-7	SampType: LCS D	TestCode: VOC_W+	Units: mg/L	Prep Date:	Run ID: VOA-7_111219A						
Client ID: ZZZZZ	Batch ID: R77222	TestNo: SW8260B		Analysis Date: 12/19/2011	SeqNo: 2073864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	0.04703	0.0050	0.05	0	94.1	70	130	0.04698	0.106	20	
1,1,2,2-Tetrachloroethane	0.05319	0.0050	0.05	0	106	70	130	0.05396	1.44	20	
1,1,2-Trichloroethane	0.04542	0.0050	0.05	0	90.8	70	130	0.04802	5.57	20	
1,1-Dichloroethane	0.04155	0.0050	0.05	0	83.1	70	130	0.04311	3.69	20	
1,1-Dichloroethene	0.04127	0.0050	0.05	0	82.5	70	130	0.04292	3.92	20	
1,2-Dichloroethane	0.04284	0.0050	0.05	0	85.7	70	130	0.04392	2.49	20	
1,2-Dichloropropane	0.04366	0.0050	0.05	0	87.3	70	130	0.04479	2.56	20	
2-Butanone	0.1052	0.020	0.1	0	105	70	130	0.09758	7.50	20	
2-Hexanone	0.09812	0.020	0.1	0	98.1	70	130	0.09928	1.18	20	
4-Methyl-2-pentanone	0.09434	0.020	0.1	0	94.3	70	130	0.09475	0.434	20	
Acetone	0.09699	0.020	0.1	0	97	50	150	0.09248	4.76	20	
Benzene	0.04491	0.0050	0.05	0	89.8	70	130	0.04628	3.00	20	
Bromodichloromethane	0.04977	0.0050	0.05	0	99.5	70	130	0.04866	2.26	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77222

Sample ID: VLCS121911-7	SampType: LCSD	TestCode: VOC_W+	Units: mg/L	Prep Date:					Run ID: VOA-7_111219A		
Client ID: ZZZZZ	Batch ID: R77222	TestNo: SW8260B			Analysis Date: 12/19/2011					SeqNo: 2073864	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.04783	0.0050	0.05	0	95.7	70	130	0.05037	5.17	20	S
Bromomethane	0.02813	0.010	0.05	0	56.3	70	130	0.02718	3.44	20	
Carbon disulfide	0.09032	0.010	0.1	0	90.3	70	130	0.09426	4.27	20	
Carbon tetrachloride	0.0446	0.0050	0.05	0	89.2	70	130	0.04735	5.98	20	
Chlorobenzene	0.04901	0.0050	0.05	0	98	70	130	0.05157	5.09	20	
Chloroethane	0.04347	0.010	0.05	0	86.9	70	130	0.04776	9.40	20	
Chloroform	0.04225	0.0050	0.05	0	84.5	70	130	0.04578	8.02	20	
Chloromethane	0.03524	0.010	0.05	0	70.5	70	130	0.03604	2.24	20	
cis-1,2-Dichloroethene	0.04271	0.0050	0.05	0	85.4	70	130	0.04649	8.48	20	
cis-1,3-Dichloropropene	0.05009	0.0010	0.05	0	100	70	130	0.05177	3.30	20	
Dibromochloromethane	0.04975	0.0050	0.05	0	99.5	70	130	0.05286	6.06	20	
Ethylbenzene	0.04841	0.0050	0.05	0	96.8	70	130	0.05012	3.47	20	
Methyl tert-butyl ether	0.04994	0.0050	0.05	0	99.9	50	150	0.05162	3.31	20	
Methylene chloride	0.04423	0.0050	0.05	0	88.5	70	130	0.04824	8.67	20	
Styrene	0.048	0.0050	0.05	0	96	70	130	0.04969	3.46	20	
Tetrachloroethene	0.0445	0.0050	0.05	0	89	70	130	0.04733	6.16	20	
Toluene	0.04598	0.0050	0.05	0	92	70	130	0.0455	1.05	20	
trans-1,2-Dichloroethene	0.04139	0.0050	0.05	0	82.8	70	130	0.04437	6.95	20	
trans-1,3-Dichloropropene	0.05529	0.0010	0.05	0	111	70	130	0.05408	2.21	20	
Trichloroethene	0.04381	0.0050	0.05	0	87.6	70	130	0.04685	6.71	20	
Vinyl chloride	0.03532	0.0020	0.05	0	70.6	70	130	0.03764	6.36	20	
Xylenes, Total	0.1473	0.015	0.15	0	98.2	70	130	0.1504	2.10	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77148

Sample ID	VBLK121511-7	SampType: MBLK	TestCode: VOC_W+	Units: mg/L	Prep Date:	Run ID: VOA-7_111215A					
Client ID: ZZZZZ	Batch ID: R77148	TestNo: SW8260B	Analysis Date: 12/15/2011	SeqNo: 2071725							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0050									
1,1,2,2-Tetrachloroethane	ND	0.0050									
1,1,2-Trichloroethane	ND	0.0050									
1,1-Dichloroethane	ND	0.0050									
1,1-Dichloroethene	ND	0.0050									
1,2-Dichloroethane	ND	0.0050									
1,2-Dichloropropane	ND	0.0050									
2-Butanone	ND	0.020									
2-Hexanone	ND	0.020									
4-Methyl-2-pentanone	ND	0.020									
Acetone	ND	0.020									
Benzene	ND	0.0050									
Bromodichloromethane	ND	0.0050									
Bromoform	ND	0.0050									
Bromomethane	ND	0.010									
Carbon disulfide	ND	0.010									
Carbon tetrachloride	ND	0.0050									
Chlorobenzene	ND	0.0050									
Chloroethane	ND	0.010									
Chloroform	ND	0.0050									
Chloromethane	ND	0.010									
cis-1,2-Dichloroethene	ND	0.0050									
cis-1,3-Dichloropropene	ND	0.0010									
Dibromochloromethane	ND	0.0050									
Ethylbenzene	ND	0.0050									
Methyl tert-butyl ether	ND	0.0050									
Methylene chloride	ND	0.0050									
Styrene	ND	0.0050									
Tetrachloroethene	ND	0.0050									
Toluene	ND	0.0050									
trans-1,2-Dichloroethene	ND	0.0050									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77148

Sample ID	VBLK121511-7	SampType: MBLK	TestCode: VOC_W+	Units: mg/L	Prep Date:	Run ID: VOA-7_111215A					
Client ID: ZZZZZ	Batch ID: R77148	TestNo: SW8260B	Analysis Date: 12/15/2011	SeqNo: 2071725							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,3-Dichloropropene
Trichloroethene
Vinyl chloride
Xylenes, Total

ND
ND
ND
ND

0.0010
0.0050
0.0020
0.015

Sample ID	VLCS121511-7	SampType: LCS	TestCode: VOC_W+	Units: mg/L	Prep Date:	Run ID: VOA-7_111215A					
Client ID: ZZZZZ	Batch ID: R77148	TestNo: SW8260B	Analysis Date: 12/15/2011	SeqNo: 2071726							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,2-Dichloropropane
2-Butanone
2-Hexanone
4-Methyl-2-pentanone
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene

0.05008
0.05253
0.05032
0.04674
0.04746
0.04644
0.04662
0.09712
0.1094
0.1053
0.1086
0.04933
0.05186
0.05536
0.03842
0.1059
0.0509
0.05312
0.04906
0.04791
0.05107
0.04771

0.0050
0.0050
0.0050
0.0050
0.0050
0.0050
0.0050
0.020
0.020
0.020
0.020
0.0050
0.0050
0.0050
0.010
0.010
0.0050
0.0050
0.010
0.0050
0.010
0.0050

0.05
0.05
0.05
0.05
0.05
0.05
0.05
0.1
0.1
0.1
0.1
0.05
0.05
0.05
0.05
0.1
0.05
0.05
0.05
0.05
0.05
0.05

0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

100
105
101
93.5
94.9
92.9
93.2
97.1
109
105
109
98.7
104
111
76.8
106
102
106
98.1
95.8
102
95.4

70
70
70
70
70
70
70
70
70
70
70
70
70
70
70
70
70
70
70
70
70
70
70

130
130
130
130
130
130
130
130
130
130
130
130
130
130
130
130
130
130
130
130
130
130
130

0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77148

Sample ID	VLCS121511-7	SampType:	LCS	TestCode:	VOC_W+	Units:	mg/L	Prep Date:		Run ID:	VOA-7_111215A
Client ID:	ZZZZZ	Batch ID:	R77148	TestNo:	SW8260B			Analysis Date:	12/15/2011	SeqNo:	2071726
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.05501	0.0010	0.05	0	110	70	130	0	0		
Dibromochloromethane	0.05324	0.0050	0.05	0	106	70	130	0	0		
Ethylbenzene	0.05228	0.0050	0.05	0	105	70	130	0	0		
Methyl tert-butyl ether	0.05237	0.0050	0.05	0	105	50	150	0	0		
Methylene chloride	0.04878	0.0050	0.05	0	97.6	70	130	0	0		
Styrene	0.05148	0.0050	0.05	0	103	70	130	0	0		
Tetrachloroethene	0.04826	0.0050	0.05	0	96.5	70	130	0	0		
Toluene	0.04808	0.0050	0.05	0	96.2	70	130	0	0		
trans-1,2-Dichloroethene	0.04668	0.0050	0.05	0	93.4	70	130	0	0		
trans-1,3-Dichloropropene	0.0565	0.0010	0.05	0	113	70	130	0	0		
Trichloroethene	0.0481	0.0050	0.05	0	96.2	70	130	0	0		
Vinyl chloride	0.03955	0.0020	0.05	0	79.1	70	130	0	0		
Xylenes, Total	0.1562	0.015	0.15	0	104	70	130	0	0		

Sample ID	VLCS121511-7	SampType:	LCS	TestCode:	VOC_W+	Units:	mg/L	Prep Date:		Run ID:	VOA-7_111215A
Client ID:	ZZZZZ	Batch ID:	R77148	TestNo:	SW8260B			Analysis Date:	12/15/2011	SeqNo:	2071727
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.04885	0.0050	0.05	0	97.7	70	130	0.05008	2.49	20	
1,1,2,2-Tetrachloroethane	0.05345	0.0050	0.05	0	107	70	130	0.05253	1.74	20	
1,1,2-Trichloroethane	0.04758	0.0050	0.05	0	95.2	70	130	0.05032	5.60	20	
1,1-Dichloroethane	0.04544	0.0050	0.05	0	90.9	70	130	0.04674	2.82	20	
1,1-Dichloroethene	0.04498	0.0050	0.05	0	90	70	130	0.04746	5.37	20	
1,2-Dichloroethane	0.04735	0.0050	0.05	0	94.7	70	130	0.04644	1.94	20	
1,2-Dichloropropane	0.04477	0.0050	0.05	0	89.5	70	130	0.04662	4.05	20	
2-Butanone	0.1094	0.020	0.1	0	109	70	130	0.09712	11.9	20	
2-Hexanone	0.1072	0.020	0.1	0	107	70	130	0.1094	1.99	20	
4-Methyl-2-pentanone	0.1024	0.020	0.1	0	102	70	130	0.1053	2.76	20	
Acetone	0.0903	0.020	0.1	0	90.3	50	150	0.1086	18.4	20	
Benzene	0.04742	0.0050	0.05	0	94.8	70	130	0.04933	3.95	20	
Bromodichloromethane	0.05147	0.0050	0.05	0	103	70	130	0.05186	0.755	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77148

Sample ID	VLCSD121511-7	SampType:	LCSD	TestCode:	VOC_W+	Units:	mg/L	Prep Date:		Run ID:	VOA-7_111215A
Client ID:	ZZZZZ	Batch ID:	R77148	TestNo:	SW8260B			Analysis Date:	12/15/2011	SeqNo:	2071727
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.05112	0.0050	0.05	0	102	70	130	0.05536	7.96	20	
Bromomethane	0.03705	0.010	0.05	0	74.1	70	130	0.03842	3.63	20	
Carbon disulfide	0.1054	0.010	0.1	0	105	70	130	0.1059	0.483	20	
Carbon tetrachloride	0.04615	0.0050	0.05	0	92.3	70	130	0.0509	9.79	20	
Chlorobenzene	0.05309	0.0050	0.05	0	106	70	130	0.05312	0.0565	20	
Chloroethane	0.04076	0.010	0.05	0	81.5	70	130	0.04906	18.5	20	
Chloroform	0.04521	0.0050	0.05	0	90.4	70	130	0.04791	5.80	20	
Chloromethane	0.04778	0.010	0.05	0	95.6	70	130	0.05107	6.66	20	
cis-1,2-Dichloroethene	0.04766	0.0050	0.05	0	95.3	70	130	0.04771	0.105	20	
cis-1,3-Dichloropropene	0.05305	0.0010	0.05	0	106	70	130	0.05501	3.63	20	
Dibromochloromethane	0.05286	0.0050	0.05	0	106	70	130	0.05324	0.716	20	
Ethylbenzene	0.05131	0.0050	0.05	0	103	70	130	0.05228	1.87	20	
Methyl tert-butyl ether	0.05365	0.0050	0.05	0	107	50	150	0.05237	2.41	20	
Methylene chloride	0.04996	0.0050	0.05	0	99.9	70	130	0.04878	2.39	20	
Styrene	0.05111	0.0050	0.05	0	102	70	130	0.05148	0.721	20	
Tetrachloroethene	0.0469	0.0050	0.05	0	93.8	70	130	0.04826	2.86	20	
Toluene	0.04696	0.0050	0.05	0	93.9	70	130	0.04808	2.36	20	
trans-1,2-Dichloroethene	0.04467	0.0050	0.05	0	89.3	70	130	0.04668	4.40	20	
trans-1,3-Dichloropropene	0.05509	0.0010	0.05	0	110	70	130	0.0565	2.53	20	
Trichloroethene	0.04488	0.0050	0.05	0	89.8	70	130	0.0481	6.93	20	
Vinyl chloride	0.03896	0.0020	0.05	0	77.9	70	130	0.03955	1.50	20	
Xylenes, Total	0.1525	0.015	0.15	0	102	70	130	0.1562	2.40	20	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing
Test No: SW8270C

Matrix: O

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
11120395-008A	85.5	88.3	84.6	86.2	89.0	93.1	81.3	77.4
MB-60310-SVOC	106	105	106	134 *	164 *	105	112	93.7
LCS-60310-SVOC	105	102	112	132 *	155 *	101	113	81.7
11120175-001AMS	87.9	88.5	91.5	108	141 *	84.5	94.0	70.3
11120175-001AMSD	86.6	88.1	89.2	110	129 *	82.1	92.6	69.8

Acronym	Surrogate	QC Limits
CLPH2D4	= 2-Chlorophenol-d4	20-130
DCBZ12D4	= 1,2-Dichlorobenzene-d4	20-130
NO2BZD5	= Nitrobenzene-d5	23-120
PH246BR	= 2,4,6-Tribromophenol	19-122
PH2F	= 2-Fluorophenol	25-121
PHD5	= Phenol-d5	24-113
PHEN2F	= 2-Fluorobiphenyl	30-115
PHEND14	= 4-Terphenyl-d14	18-137

* Surrogate recovery outside acceptance limits

Prep Start Date: **12/13/2011 6:55:46**

 Prep End Date: **12/19/2011 3:20:26**

Prep Factor Units:

mL / Kg

 Prep Batch **60310** Prep Code: **3580_SVOC** Technician: **PDL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-60310-SVOC			0.001	0	0	10	10000.000	12/13/2011	12/13/2011
LCS-60310-SVOC			0.001	0	0	10	10000.000	12/13/2011	12/13/2011
11120175-001AMS	Liquid		0.00108	0	0	10	9259.259	12/13/2011	12/13/2011
11120175-001AMSD	Liquid		0.0011	0	0	10	9090.909	12/13/2011	12/13/2011
11120175-001A	Liquid		0.00106	0	0	10	9433.962	12/13/2011	12/13/2011
11120175-002A	Liquid		0.00104	0	0	10	9615.385	12/13/2011	12/13/2011
11120175-003A	Liquid		0.00102	0	0	10	9803.922	12/13/2011	12/13/2011
11120175-004A	Liquid		0.00101	0	0	10	9900.990	12/13/2011	12/13/2011
11120175-005A	Liquid		0.00104	0	0	10	9615.385	12/13/2011	12/13/2011
11120175-006A	Liquid		0.00106	0	0	10	9433.962	12/13/2011	12/13/2011
11120395-008A	Organic Liquid		0.00106	0	0	10	9433.962	12/13/2011	12/13/2011
11120436-001A	Oil		0.00129	0	0	10	7751.938	12/14/2011	12/15/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60310

Sample ID	MB-60310-SVOC	SampType:	MBLK	TestCode:	SVOC_OIL	Units:	mg/Kg	Prep Date:	12/13/2011	Run ID:	SVOC-6_111214A
Client ID:	ZZZZZ	Batch ID:	60310	TestNo:	SW8270C			Analysis Date:	12/14/2011	SeqNo:	2070901
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	50									
1,2-Dichlorobenzene	ND	50									
1,3-Dichlorobenzene	ND	50									
1,4-Dichlorobenzene	ND	50									
2, 2'-oxybis(1-Chloropropane)	ND	50									
2,4,5-Trichlorophenol	ND	50									
2,4,6-Trichlorophenol	ND	50									
2,4-Dichlorophenol	ND	50									
2,4-Dimethylphenol	ND	50									
2,4-Dinitrophenol	ND	100									
2,4-Dinitrotoluene	ND	50									
2,6-Dinitrotoluene	ND	50									
2-Chloronaphthalene	ND	50									
2-Chlorophenol	ND	50									
2-Methylnaphthalene	ND	50									
2-Methylphenol	ND	50									
2-Nitroaniline	ND	100									
2-Nitrophenol	ND	50									
3,3'-Dichlorobenzidine	ND	50									
3-Nitroaniline	ND	100									
4,6-Dinitro-2-methylphenol	ND	100									
4-Bromophenyl phenyl ether	ND	50									
4-Chloro-3-methylphenol	ND	50									
4-Chloroaniline	ND	50									
4-Chlorophenyl phenyl ether	ND	50									
4-Methylphenol	ND	50									
4-Nitroaniline	ND	100									
4-Nitrophenol	ND	100									
Acenaphthene	ND	50									
Acenaphthylene	ND	50									
Aniline	ND	50									

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60310

Sample ID	MB-60310-SVOC	SampType:	MBLK	TestCode:	SVOC_OIL	Units:	mg/Kg	Prep Date:	12/13/2011	Run ID:	SVOC-6_111214A
Client ID:	ZZZZZ	Batch ID:	60310	TestNo:	SW8270C			Analysis Date:	12/14/2011	SeqNo:	2070901
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	50									
Benz(a)anthracene	ND	50									
Benzidine	ND	50									
Benzo(a)pyrene	ND	50									
Benzo(b)fluoranthene	ND	50									
Benzo(g,h,i)perylene	ND	50									
Benzo(k)fluoranthene	ND	50									
Benzoic acid	ND	100									
Benzyl alcohol	ND	50									
Bis(2-chloroethoxy)methane	ND	50									
Bis(2-chloroethyl)ether	ND	50									
Bis(2-ethylhexyl)phthalate	ND	50									
Butyl benzyl phthalate	ND	50									
Carbazole	ND	50									
Chrysene	ND	50									
Di-n-butyl phthalate	ND	50									
Di-n-octyl phthalate	ND	50									
Dibenz(a,h)anthracene	ND	50									
Dibenzofuran	ND	50									
Diethyl phthalate	ND	50									
Dimethyl phthalate	ND	50									
Fluoranthene	ND	50									
Fluorene	ND	50									
Hexachlorobenzene	ND	50									
Hexachlorobutadiene	ND	50									
Hexachlorocyclopentadiene	ND	50									
Hexachloroethane	ND	50									
Indeno(1,2,3-cd)pyrene	ND	50									
Isophorone	ND	50									
N-Nitrosodi-n-propylamine	ND	50									
N-Nitrosodimethylamine	ND	50									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60310

Sample ID	MB-60310-SVOC	SampType:	MBLK	TestCode:	SVOC_OIL	Units:	mg/Kg	Prep Date:	12/13/2011	Run ID:	SVOC-6_111214A
Client ID:	ZZZZZ	Batch ID:	60310	TestNo:	SW8270C			Analysis Date:	12/14/2011	SeqNo:	2070901
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

N-Nitrosodiphenylamine
Naphthalene
Nitrobenzene
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pyridine

ND
ND
ND
ND
ND
ND
ND
ND

50
50
50
100
50
50
50
50

Sample ID	LCS-60310-SVOC	SampType:	LCS	TestCode:	SVOC_OIL	Units:	mg/Kg	Prep Date:	12/13/2011	Run ID:	SVOC-6_111214A
Client ID:	ZZZZZ	Batch ID:	60310	TestNo:	SW8270C			Analysis Date:	12/14/2011	SeqNo:	2071064
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene
1,4-Dichlorobenzene
2,4-Dinitrotoluene
2-Chlorophenol
4-Chloro-3-methylphenol
4-Nitrophenol
Acenaphthene
N-Nitrosodi-n-propylamine
Pentachlorophenol
Phenol
Pyrene

327.6
367.4
367
763.1
599.4
691.3
377.6
407.8
552.5
739.3
511.4

50
50
50
50
50
100
50
50
100
50
50

500
500
500
1000
1000
1000
500
500
1000
1000
500

0
0
0
0
0
0
0
0
0
0

65.5
73.5
73.4
76.3
59.9
69.1
75.5
81.6
55.2
73.9
102

50
50
55
61
62
53
65
55
40
60
50

106
90
101
91
100
123
101
100
120
91
131

0
0
0
0
0
0
0
0
0
0

0
0
0
0
0
0
0
0
0
0

S

Sample ID	11120175-001AMS	SampType:	MS	TestCode:	SVOC_OIL	Units:	mg/Kg	Prep Date:	12/13/2011	Run ID:	SVOC-6_111214A
Client ID:	ZZZZZ	Batch ID:	60310	TestNo:	SW8270C			Analysis Date:	12/14/2011	SeqNo:	2071068
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene
1,4-Dichlorobenzene

267.4
304.9

46
46

463
463

0
0

57.8
65.9

50
50

106
90

0
0

0
0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60310

Sample ID	11120175-001AMS	SampType:	MS	TestCode:	SVOC_OIL	Units:	mg/Kg	Prep Date:	12/13/2011	Run ID:	SVOC-6_111214A
Client ID:	ZZZZZ	Batch ID:	60310	TestNo:	SW8270C			Analysis Date:	12/14/2011	SeqNo:	2071068
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	344.4	46	463	0	74.4	55	101	0	0		
2-Chlorophenol	613.3	46	925.9	0	66.2	61	91	0	0		
4-Chloro-3-methylphenol	459.2	46	925.9	0	49.6	62	100	0	0		S
4-Nitrophenol	628.5	93	925.9	0	67.9	53	123	0	0		
Acenaphthene	319.9	46	463	0	69.1	65	101	0	0		
N-Nitrosodi-n-propylamine	308.7	46	463	0	66.7	55	100	0	0		
Pentachlorophenol	412.7	93	925.9	0	44.6	40	120	0	0		
Phenol	579	46	925.9	0	62.5	60	91	0	0		
Pyrene	413	46	463	0	89.2	50	131	0	0		

Sample ID	11120175-001AMSD	SampType:	MSD	TestCode:	SVOC_OIL	Units:	mg/Kg	Prep Date:	12/13/2011	Run ID:	SVOC-6_111214A
Client ID:	ZZZZZ	Batch ID:	60310	TestNo:	SW8270C			Analysis Date:	12/14/2011	SeqNo:	2071069
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	255.9	45	454.5	0	56.3	50	106	267.4	4.39	23	
1,4-Dichlorobenzene	300.4	45	454.5	0	66.1	50	90	304.9	1.50	27	
2,4-Dinitrotoluene	350.3	45	454.5	0	77.1	55	101	344.4	1.70	47	
2-Chlorophenol	597.4	45	909.1	0	65.7	61	91	613.3	2.64	50	
4-Chloro-3-methylphenol	446	45	909.1	0	49.1	62	100	459.2	2.91	33	S
4-Nitrophenol	664.8	91	909.1	0	73.1	53	123	628.5	5.61	50	
Acenaphthene	311	45	454.5	0	68.4	65	101	319.9	2.82	19	
N-Nitrosodi-n-propylamine	290.3	45	454.5	0	63.9	55	100	308.7	6.15	38	
Pentachlorophenol	408.8	91	909.1	0	45	40	120	412.7	0.941	47	
Phenol	545.5	45	909.1	0	60	60	91	579	5.95	35	
Pyrene	404.6	45	454.5	0	89	50	131	413	2.04	36	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing
Test No: SW8270C

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	CLPH2D4	DCBZ12D4	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14
MB-60293-SVOC	94.9	88.4	95.0	106	71.9	55.6	90.8	107
LCS-60293-SVOC	88.7	89.1	96.2	103	67.1	53.9	89.3	102
LCSD-60293-SVOC	94.2	86.5	104	109	71.9	55.3	90.3	110
11120395-011A	66.6	59.6	74.4	109	63.6	38.2	78.6	95.5
11120395-012A	73.1	65.7	84.1	101	78.6	42.2	76.0	91.4

Acronym	Surrogate	QC Limits
CLPH2D4	= 2-Chlorophenol-d4	33-110
DCBZ12D4	= 1,2-Dichlorobenzene-d4	16-110
NO2BZD5	= Nitrobenzene-d5	35-114
PH246BR	= 2,4,6-Tribromophenol	10-123
PH2F	= 2-Fluorophenol	21-110
PHD5	= Phenol-d5	10-110
PHEN2F	= 2-Fluorobiphenyl	43-116
PHEND14	= 4-Terphenyl-d14	33-141

*** Surrogate recovery outside acceptance limits**

Prep Start Date: **12/13/2011 12:02:01**

Prep End Date:

Prep Factor Units:

 Prep Batch **60293**

 Prep Code: **3510_SVOC**

 Technician: **PEM**

mL / L

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-60293-SVOC			1	0	0	1	1.000	12/13/2011	12/13/2011
LCS-60293-SVOC			1	0	0	1	1.000	12/13/2011	12/13/2011
LCSD-60293-SVOC			1	0	0	1	1.000	12/13/2011	12/13/2011
MB-60293-TCLP			0.5	0	0	0.5	1.000	12/13/2011	12/13/2011
11120329-013B	Water		0.5	0	0	0.5	1.000	12/13/2011	12/13/2011
11120330-001B	Soil		0.5	0	0	0.5	1.000	12/13/2011	12/13/2011
11120342-005B	Water		1	0	0	1	1.000	12/13/2011	12/13/2011
11120342-006B	Water		1	0	0	1	1.000	12/13/2011	12/13/2011
11120342-007B	Water		1	0	0	1	1.000	12/13/2011	12/13/2011
11120395-011A	Liquid		0.5	0	0	0.5	1.000	12/14/2011	12/14/2011
11120395-012A	Liquid		0.5	0	0	0.5	1.000	12/14/2011	12/14/2011
11120406-003B	Water		1	0	0	1	1.000	12/14/2011	12/14/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60293

Sample ID	MB-60293-SVOC	SampType:	MBLK	TestCode:	SVOC_water	Units:	mg/L	Prep Date:	12/13/2011	Run ID:	SVOC-5_111213A
Client ID:	ZZZZZ	Batch ID:	60293	TestNo:	SW8270C			Analysis Date:	12/13/2011	SeqNo:	2070585
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0050									
Acenaphthylene	ND	0.0050									
Aniline	ND	0.025									
Anthracene	ND	0.0050									
Benz(a)anthracene	ND	0.0050									
Benzidine	ND	0.025									
Benzo(a)pyrene	ND	0.0050									
Benzo(b)fluoranthene	ND	0.0050									
Benzo(g,h,i)perylene	ND	0.0050									
Benzo(k)fluoranthene	ND	0.0050									
Benzoic acid	ND	0.025									
Benzyl alcohol	ND	0.0050									
Bis(2-chloroethoxy)methane	ND	0.0050									
Bis(2-chloroethyl)ether	ND	0.0050									
Bis(2-ethylhexyl)phthalate	ND	0.0060									
4-Bromophenyl phenyl ether	ND	0.0050									
Butyl benzyl phthalate	ND	0.0050									
Carbazole	ND	0.0050									
4-Chloroaniline	ND	0.0050									
4-Chloro-3-methylphenol	ND	0.0050									
2-Chloronaphthalene	ND	0.0050									
2-Chlorophenol	ND	0.0050									
4-Chlorophenyl phenyl ether	ND	0.0050									
Chrysene	ND	0.0050									
Dibenz(a,h)anthracene	ND	0.0050									
Dibenzofuran	ND	0.0050									
1,2-Dichlorobenzene	ND	0.0050									
1,3-Dichlorobenzene	ND	0.0050									
1,4-Dichlorobenzene	ND	0.0050									
3,3'-Dichlorobenzidine	ND	0.010									
2,4-Dichlorophenol	ND	0.0050									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60293

Sample ID	MB-60293-SVOC	SampType:	MBLK	TestCode:	SVOC_water	Units:	mg/L	Prep Date:	12/13/2011	Run ID:	SVOC-5_111213A
Client ID:	ZZZZZ	Batch ID:	60293	TestNo:	SW8270C			Analysis Date:	12/13/2011	SeqNo:	2070585
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethyl phthalate	ND	0.0050									
2,4-Dimethylphenol	ND	0.0050									
Dimethyl phthalate	ND	0.0050									
4,6-Dinitro-2-methylphenol	ND	0.025									
2,4-Dinitrophenol	ND	0.025									
2,4-Dinitrotoluene	ND	0.0050									
2,6-Dinitrotoluene	ND	0.0050									
Di-n-butyl phthalate	ND	0.0050									
Di-n-octyl phthalate	ND	0.0050									
Fluoranthene	ND	0.0050									
Fluorene	ND	0.0050									
Hexachlorobenzene	ND	0.0050									
Hexachlorobutadiene	ND	0.0050									
Hexachlorocyclopentadiene	ND	0.0050									
Hexachloroethane	ND	0.0050									
Indeno(1,2,3-cd)pyrene	ND	0.0050									
Isophorone	ND	0.0050									
2-Methylnaphthalene	ND	0.0050									
2-Methylphenol	ND	0.0050									
4-Methylphenol	ND	0.0050									
Naphthalene	ND	0.0050									
2-Nitroaniline	ND	0.0050									
3-Nitroaniline	ND	0.025									
4-Nitroaniline	ND	0.025									
2-Nitrophenol	ND	0.0050									
4-Nitrophenol	ND	0.025									
Nitrobenzene	ND	0.0050									
N-Nitrosodi-n-propylamine	ND	0.0050									
N-Nitrosodimethylamine	ND	0.0050									
N-Nitrosodiphenylamine	ND	0.0050									
2, 2'-oxybis(1-Chloropropane)	ND	0.0050									

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60293

Sample ID	MB-60293-SVOC	SampType:	MBLK	TestCode:	SVOC_water	Units:	mg/L	Prep Date:	12/13/2011	Run ID:	SVOC-5_111213A
Client ID:	ZZZZZ	Batch ID:	60293	TestNo:	SW8270C			Analysis Date:	12/13/2011	SeqNo:	2070585
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pentachlorophenol	ND	0.025									
Phenanthrene	ND	0.0050									
Phenol	ND	0.0050									
Pyrene	ND	0.0050									
Pyridine	ND	0.0050									
1,2,4-Trichlorobenzene	ND	0.0050									
2,4,5-Trichlorophenol	ND	0.010									
2,4,6-Trichlorophenol	ND	0.0050									

Sample ID	LCS-60293-SVOC	SampType:	LCS	TestCode:	SVOC_water	Units:	mg/L	Prep Date:	12/13/2011	Run ID:	SVOC-5_111213A
Client ID:	ZZZZZ	Batch ID:	60293	TestNo:	SW8270C			Analysis Date:	12/13/2011	SeqNo:	2070607
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.04509	0.0050	0.05	0	90.2	54	116	0	0		
4-Chloro-3-methylphenol	0.09223	0.0050	0.1	0	92.2	49	117	0	0		
2-Chlorophenol	0.08748	0.0050	0.1	0	87.5	44	103	0	0		
1,4-Dichlorobenzene	0.03688	0.0050	0.05	0	73.8	41	90	0	0		
2,4-Dinitrotoluene	0.04079	0.0050	0.05	0	81.6	46	122	0	0		
4-Nitrophenol	0.03924	0.025	0.1	0	39.2	15	78	0	0		
N-Nitrosodi-n-propylamine	0.04226	0.0050	0.05	0	84.5	43	108	0	0		
Pentachlorophenol	0.08402	0.025	0.1	0	84	10	221	0	0		
Phenol	0.05158	0.0050	0.1	0	51.6	23	58	0	0		
Pyrene	0.04909	0.0050	0.05	0	98.2	53	140	0	0		
1,2,4-Trichlorobenzene	0.03511	0.0050	0.05	0	70.2	42	96	0	0		

Sample ID	LCSD-60293-SVOC	SampType:	LCSD	TestCode:	SVOC_water	Units:	mg/L	Prep Date:	12/13/2011	Run ID:	SVOC-5_111213A
Client ID:	ZZZZZ	Batch ID:	60293	TestNo:	SW8270C			Analysis Date:	12/13/2011	SeqNo:	2070616
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	0.0475	0.0050	0.05	0	95	54	116	0.04509	5.21	21	
4-Chloro-3-methylphenol	0.09661	0.0050	0.1	0	96.6	49	117	0.09223	4.64	27	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60293

Sample ID	LCSD-60293-SVOC	SampType: LCSD	TestCode: SVOC_water Units: mg/L			Prep Date: 12/13/2011			Run ID: SVOC-5_111213A		
Client ID:	ZZZZZ	Batch ID: 60293	TestNo: SW8270C			Analysis Date: 12/13/2011			SeqNo: 2070616		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorophenol	0.09231	0.0050	0.1	0	92.3	44	103	0.08748	5.37	29	
1,4-Dichlorobenzene	0.03965	0.0050	0.05	0	79.3	41	90	0.03688	7.24	38	
2,4-Dinitrotoluene	0.04342	0.0050	0.05	0	86.8	46	122	0.04079	6.25	23	
4-Nitrophenol	0.04156	0.025	0.1	0	41.6	15	78	0.03924	5.74	29	
N-Nitrosodi-n-propylamine	0.04322	0.0050	0.05	0	86.4	43	108	0.04226	2.25	24	
Pentachlorophenol	0.08639	0.025	0.1	0	86.4	10	221	0.08402	2.78	29	
Phenol	0.05165	0.0050	0.1	0	51.6	23	58	0.05158	0.136	30	
Pyrene	0.0509	0.0050	0.05	0	102	53	140	0.04909	3.62	24	
1,2,4-Trichlorobenzene	0.03953	0.0050	0.05	0	79.1	42	96	0.03511	11.8	32	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing
Test No: SW8082

Matrix: S

**QC SUMMARY REPORT
 SURROGATE RECOVERIES**

Sample ID **CL10BZ2** **XYL2456CLM**

MB-60286-PCB	140	130						
LCS-60286-PCB	151 *	140						
11120320-001AMS	90.0	70.0						
11120320-001AMSD	90.0	70.0						
11120395-009A	85.0	95.0						

Acronym

Surrogate

QC Limits

CL10BZ2

= Decachlorobiphenyl

30-150

XYL2456CLM

= Tetrachloro-m-xylene

30-150

*** Surrogate recovery outside acceptance limits**

Prep Start Date: **12/12/2011 5:17:39**

 Prep End Date: **12/13/2011 8:34:42**

Prep Factor Units:

 Prep Batch **60286**

 Prep Code: **3580_P**

 Technician: **PDL**

mL / Kg

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-60286-PCB			0.001	0	0	10	10000.000	12/12/2011	12/12/2011
LCS-60286-PCB			0.001	0	0	10	10000.000	12/12/2011	12/12/2011
11120320-001AMS	Oil		0.00115	0	0	10	8695.652	12/12/2011	12/12/2011
11120320-001AMSD	Oil		0.00123	0	0	10	8130.081	12/12/2011	12/12/2011
11120320-001A	Oil		0.00116	0	0	10	8620.690	12/12/2011	12/12/2011
11120303-001A	Oil		0.00104	0	0	10	9615.385	12/12/2011	12/12/2011
11120303-002A	Oil		0.00113	0	0	10	8849.558	12/12/2011	12/12/2011
11120303-003A	Oil		0.00105	0	0	10	9523.810	12/12/2011	12/12/2011
11120303-004A	Oil		0.00108	0	0	10	9259.259	12/12/2011	12/12/2011
11120303-005A	Oil		0.00107	0	0	10	9345.794	12/12/2011	12/12/2011
11120303-006A	Oil		0.00103	0	0	10	9708.738	12/12/2011	12/12/2011
11120303-007A	Oil		0.00108	0	0	10	9259.259	12/12/2011	12/12/2011
11120303-008A	Oil		0.00111	0	0	10	9009.009	12/12/2011	12/12/2011
11120303-009A	Oil		0.00112	0	0	10	8928.571	12/12/2011	12/12/2011
11120303-010A	Oil		0.00116	0	0	10	8620.690	12/12/2011	12/12/2011
11120303-011A	Oil		0.00109	0	0	10	9174.312	12/12/2011	12/12/2011
11120303-012A	Oil		0.00108	0	0	10	9259.259	12/12/2011	12/12/2011
11120286-005A	Solid		0.00148	0	0	10	6756.757	12/12/2011	12/12/2011
11120343-001A	Oil		0.00102	0	0	10	9803.922	12/13/2011	12/13/2011
11120347-001A	Oil		0.00102	0	0	10	9803.922	12/13/2011	12/13/2011
11120348-001A	Oil		0.00102	0	0	10	9803.922	12/13/2011	12/13/2011
11120394-003A	Oil		0.00131	0	0	10	7633.588	12/13/2011	12/13/2011
11120394-004A	Oil		0.00103	0	0	10	9708.738	12/13/2011	12/13/2011
11120395-009A	Oil		0.00108	0	0	10	9259.259	12/13/2011	12/13/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60286

Sample ID	11120320-001AMS	SampType:	MS	TestCode:	PCB_OIL	Units:	mg/Kg	Prep Date:	12/12/2011	Run ID:	GC-ECD3_111212A		
Client ID:	ZZZZZ	Batch ID:	60286	TestNo:	D4059			Analysis Date:	12/13/2011	SeqNo:	2069992		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1260	7.426	0.87	8.696	0	85.4	30	150	0	0	*
--------------	-------	------	-------	---	------	----	-----	---	---	---

Sample ID	11120320-001AMSD	SampType:	MSD	TestCode:	PCB_OIL	Units:	mg/Kg	Prep Date:	12/12/2011	Run ID:	GC-ECD3_111212A		
Client ID:	ZZZZZ	Batch ID:	60286	TestNo:	D4059			Analysis Date:	12/13/2011	SeqNo:	2069993		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1260	7.171	0.81	8.13	0	88.2	30	150	7.426	3.50	25	*
--------------	-------	------	------	---	------	----	-----	-------	------	----	---

Sample ID	MB-60286-PCB	SampType:	MBLK	TestCode:	PCB_SOLID	Units:	mg/Kg	Prep Date:	12/12/2011	Run ID:	GC-ECD3_111212A		
Client ID:	ZZZZZ	Batch ID:	60286	TestNo:	SW8082			Analysis Date:	12/13/2011	SeqNo:	2069988		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	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

Sample ID	LCS-60286-PCB	SampType:	LCS	TestCode:	PCB_SOLID	Units:	mg/Kg	Prep Date:	12/12/2011	Run ID:	GC-ECD3_111212A		
Client ID:	ZZZZZ	Batch ID:	60286	TestNo:	SW8082			Analysis Date:	12/13/2011	SeqNo:	2069989		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	14.1	1.0	10	0	141	30	150	0	0
Aroclor 1260	13.48	1.0	10	0	135	30	150	0	0

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing
Test No: SW8082

Matrix: W

**QC SUMMARY REPORT
 SURROGATE RECOVERIES**

Sample ID **CL10BZ2** **XYL2456CLM**

MB-60317-PCB	98.0	80.0						
LCS-60317-PCB	107	65.0						
LCSD-60317-PCB	150	90.0						
11120395-011A	36.5	48.5						
11120395-012A	55.0	75.0						

Acronym

Surrogate

QC Limits

CL10BZ2

= Decachlorobiphenyl

30-150

XYL2456CLM

= Tetrachloro-m-xylene

30-150

*** Surrogate recovery outside acceptance limits**

Prep Start Date: **12/14/2011 10:23:59**

Prep End Date:

Prep Factor Units:

 Prep Batch **60317**

 Prep Code: **3510_PCB**

 Technician: **PEM**

mL / L

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-60317-PCB			1	0	0	10	10.000	12/14/2011	12/14/2011
LCS-60317-PCB			1	0	0	10	10.000	12/14/2011	12/14/2011
LCSD-60317-PCB			1	0	0	10	10.000	12/14/2011	12/14/2011
11120395-011A	Liquid		0.5	0	0	5	10.000	12/14/2011	12/14/2011
11120395-012A	Liquid		0.5	0	0	5	10.000	12/14/2011	12/14/2011
11120430-001A	Water		0.1	0	0	10	100.000	12/15/2011	12/15/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60317

Sample ID	MB-60317-PCB	SampType:	MBLK	TestCode:	PCB_WATER	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	GC-ECD3_111215A		
Client ID:	ZZZZZ	Batch ID:	60317	TestNo:	SW8082			Analysis Date:	12/15/2011	SeqNo:	2072258		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.00050
Aroclor 1221	ND	0.00050
Aroclor 1232	ND	0.00050
Aroclor 1242	ND	0.00050
Aroclor 1248	ND	0.00050
Aroclor 1254	ND	0.00050
Aroclor 1260	ND	0.00050

Sample ID	LCS-60317-PCB	SampType:	LCS	TestCode:	PCB_WATER	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	GC-ECD3_111215A		
Client ID:	ZZZZZ	Batch ID:	60317	TestNo:	SW8082			Analysis Date:	12/15/2011	SeqNo:	2072259		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	0.00807	0.00050	0.01	0	80.7	30	150	0	0
Aroclor 1260	0.008774	0.00050	0.01	0	87.7	30	150	0	0

Sample ID	LCSD-60317-PCB	SampType:	LCSD	TestCode:	PCB_WATER	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	GC-ECD3_111215A		
Client ID:	ZZZZZ	Batch ID:	60317	TestNo:	SW8082			Analysis Date:	12/15/2011	SeqNo:	2072260		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	0.009166	0.00050	0.01	0	91.7	30	150	0.00807	12.7	25
Aroclor 1260	0.009576	0.00050	0.01	0	95.8	30	150	0.008774	8.74	25

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: **12/15/2011 10:00:00**

 Prep End Date: **12/15/2011 1:00:00**

Prep Factor Units:

mL / g

 Prep Batch **60330**

 Prep Code: **M_S_PREP**

 Technician: **RW**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS1 12/14/11			1	0	0	50	50.000	12/14/2011	12/14/2011
ILCSS1 12/14/11			1	0	0	50	50.000	12/14/2011	12/14/2011
11120331-001A	Soil		0.948	0	0	50	52.743	12/14/2011	12/14/2011
11120331-002A	Soil		1.049	0	0	50	47.664	12/14/2011	12/14/2011
11120331-002AMS	Soil		1.039	0	0	50	48.123	12/14/2011	12/14/2011
11120331-002AMSD	Soil		1.028	0	0	50	48.638	12/14/2011	12/14/2011
11120331-003A	Soil		0.804	0	0	50	62.189	12/14/2011	12/14/2011
11120331-004A	Soil		0.807	0	0	50	61.958	12/14/2011	12/14/2011
11120342-001A	Soil		0.855	0	0	50	58.480	12/14/2011	12/14/2011
11120342-002A	Soil		0.807	0	0	50	61.958	12/14/2011	12/14/2011
11120342-003A	Soil		0.88	0	0	50	56.818	12/14/2011	12/14/2011
11120342-004A	Soil		0.849	0	0	50	58.893	12/14/2011	12/14/2011
11100497-004B	Soil		1.096	0	0	50	45.620	12/14/2011	12/14/2011
11100497-005B	Soil		1.087	0	0	50	45.998	12/14/2011	12/14/2011
11120395-013A	Solid		0.313	0	0	50	159.744	12/15/2011	12/15/2011
11120395-014A	Solid		0.358	0	0	50	139.665	12/15/2011	12/15/2011
11120395-015A	Solid		0.323	0	0	50	154.799	12/15/2011	12/15/2011
11120395-016A	Solid		0.33	0	0	50	151.515	12/15/2011	12/15/2011
11120395-017A	Solid		0.32	0	0	50	156.250	12/15/2011	12/15/2011
11120395-013Ams	Solid		0.323	0	0	50	154.799	12/15/2011	12/15/2011
11120395-013Amsd	Solid		0.313	0	0	50	159.744	12/15/2011	12/15/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60330

Sample ID	IMBS1 12/14/11	SampType:	MBLK	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	12/14/2011	Run ID:	ICPMS_111214A		
Client ID:	ZZZZZ	Batch ID:	60330	TestNo:	SW6020			Analysis Date:	12/14/2011	SeqNo:	2071050		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.503	1.0											J
Arsenic	ND	0.50											
Barium	ND	0.50											
Beryllium	ND	0.25											
Cadmium	ND	0.25											
Chromium	ND	0.50											
Cobalt	ND	0.50											
Copper	ND	1.2											
Iron	ND	15											
Lead	ND	0.25											
Magnesium	ND	15											
Manganese	ND	0.50											
Nickel	ND	0.50											
Potassium	ND	15											
Selenium	ND	1.0											
Silver	0.0645	0.50											J
Sodium	ND	30											
Thallium	ND	0.50											
Vanadium	ND	0.50											
Zinc	ND	2.5											

Sample ID	IMBS1 12/14/11	SampType:	MBLK	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	12/14/2011	Run ID:	ICPMS-2_111215A		
Client ID:	ZZZZZ	Batch ID:	60330	TestNo:	SW6020			Analysis Date:	12/15/2011	SeqNo:	2071867		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	0.4785	10											J
Calcium	ND	30											

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60330

Sample ID	ILCSS1 12/14/11	SampType:	LCS	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	12/14/2011	Run ID:	ICPMS_111214A
Client ID:	ZZZZZ	Batch ID:	60330	TestNo:	SW6020			Analysis Date:	12/14/2011	SeqNo:	2071051
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	17.34	1.0	12.5	0.503	135	80	120	0	0		S
Arsenic	23.38	0.50	25	0	93.5	80	120	0	0		
Barium	24.93	0.50	25	0	99.7	80	120	0	0		
Beryllium	20.48	0.25	25	0	81.9	80	120	0	0		
Cadmium	23.39	0.25	25	0	93.6	80	120	0	0		
Chromium	24.44	0.50	25	0	97.8	80	120	0	0		
Cobalt	23.66	0.50	25	0	94.6	80	120	0	0		
Copper	23.14	1.2	25	0	92.5	80	120	0	0		
Iron	100.6	15	100	0	101	80	120	0	0		
Lead	25.88	0.25	25	0	104	80	120	0	0		
Magnesium	104	15	100	0	104	80	120	0	0		
Manganese	24.48	0.50	25	0	97.9	80	120	0	0		
Nickel	25.49	0.50	25	0	102	80	120	0	0		
Potassium	104.5	15	100	0	104	80	120	0	0		
Selenium	21.2	1.0	25	0	84.8	80	120	0	0		
Silver	10.17	0.50	10	0.0645	101	80	120	0	0		
Sodium	104.8	30	100	0	105	80	120	0	0		
Thallium	25.5	0.50	25	0	102	80	120	0	0		
Vanadium	24.32	0.50	25	0	97.3	80	120	0	0		
Zinc	20.14	2.5	25	0	80.6	80	120	0	0		

Sample ID	ILCSS1 12/14/11	SampType:	LCS	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	12/14/2011	Run ID:	ICPMS-2_111215A
Client ID:	ZZZZZ	Batch ID:	60330	TestNo:	SW6020			Analysis Date:	12/15/2011	SeqNo:	2071868
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	25.44	10	25	0.4785	99.9	80	120	0	0		
Calcium	92.1	30	100	0	92.1	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60330

Sample ID	11120331-002AMS	SampType:	MS	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	12/14/2011	Run ID:	ICPMS_111214A
Client ID:	ZZZZZ	Batch ID:	60330	TestNo:	SW6020			Analysis Date:	12/14/2011	SeqNo:	2071054
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.07	2.4	14.87	2.919	48.1	75	125	0	0		S
Arsenic	38.34	1.2	29.74	8.991	98.7	75	125	0	0		
Barium	325.7	1.2	29.74	344.1	-61.9	75	125	0	0		S
Beryllium	25.11	0.59	29.74	0.7665	81.8	75	125	0	0		
Cadmium	31.76	0.59	29.74	5.403	88.6	75	125	0	0		
Chromium	56.69	1.2	29.74	30.31	88.7	75	125	0	0		
Cobalt	36.82	1.2	29.74	10.38	88.9	75	125	0	0		
Copper	169.6	3.0	29.74	145.8	79.9	75	125	0	0		
Iron	25990	36	119	26000	-4.66	75	125	0	0		SE
Lead	769.1	0.59	29.74	942.1	-582	75	125	0	0		S
Magnesium	21230	36	119	17940	2770	75	125	0	0		S
Manganese	729.3	1.2	29.74	693.5	120	75	125	0	0		
Nickel	96.96	1.2	29.74	81.19	53	75	125	0	0		S
Potassium	3269	36	119	2796	398	75	125	0	0		S
Selenium	27.14	2.4	29.74	1.39	86.6	75	125	0	0		
Silver	12.04	1.2	11.9	0.6475	95.8	75	125	0	0		
Sodium	654.9	71	119	576.8	65.7	75	125	0	0		S
Thallium	32.32	1.2	29.74	0.09073	108	75	125	0	0		
Vanadium	44.89	1.2	29.74	17.76	91.2	75	125	0	0		
Zinc	1708	5.9	29.74	740	3250	75	125	0	0		SE

Sample ID	11120331-002AMS	SampType:	MS	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	12/14/2011	Run ID:	ICPMS-2_111215A
Client ID:	ZZZZZ	Batch ID:	60330	TestNo:	SW6020			Analysis Date:	12/15/2011	SeqNo:	2071870
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10860	240	29.74	12040	-3970	75	125	0	0		S
Calcium	60440	710	119	61920	-1250	75	125	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60330

Sample ID	11120331-002AMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/14/2011	Run ID: ICPMS_111214A					
Client ID: ZZZZZ	Batch ID: 60330	TestNo: SW6020	Analysis Date: 12/14/2011	SeqNo: 2071055							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.81	2.4	15.03	2.919	52.5	75	125	10.07	7.08	20	S
Arsenic	40.2	1.2	30.06	8.991	104	75	125	38.34	4.72	20	
Barium	345.1	1.2	30.06	344.1	3.19	75	125	325.7	5.77	20	S
Beryllium	27.06	0.60	30.06	0.7665	87.5	75	125	25.11	7.48	20	
Cadmium	34.5	0.60	30.06	5.403	96.8	75	125	31.76	8.27	20	
Chromium	66.98	1.2	30.06	30.31	122	75	125	56.69	16.6	20	
Cobalt	38.62	1.2	30.06	10.38	93.9	75	125	36.82	4.77	20	
Copper	204.8	3.0	30.06	145.8	196	75	125	169.6	18.8	20	S
Iron	29770	36	120.2	26000	3130	75	125	25990	13.5	20	SE
Lead	666.7	0.60	30.06	942.1	-916	75	125	769.1	14.3	20	S
Magnesium	19240	36	120.2	17940	1080	75	125	21230	9.84	20	S
Manganese	848.3	1.2	30.06	693.5	515	75	125	729.3	15.1	20	S
Nickel	97.1	1.2	30.06	81.19	52.9	75	125	96.96	0.140	20	S
Potassium	3098	36	120.2	2796	251	75	125	3269	5.36	20	S
Selenium	28.09	2.4	30.06	1.39	88.8	75	125	27.14	3.42	20	
Silver	12.83	1.2	12.02	0.6475	101	75	125	12.04	6.35	20	
Sodium	903.6	72	120.2	576.8	272	75	125	654.9	31.9	20	SR
Thallium	34.3	1.2	30.06	0.09073	114	75	125	32.32	5.93	20	
Vanadium	48.14	1.2	30.06	17.76	101	75	125	44.89	6.99	20	
Zinc	730.5	6.0	30.06	740	-31.7	75	125	1708	80.2	20	SR

Sample ID	11120331-002AMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 12/14/2011	Run ID: ICPMS-2_111215A					
Client ID: ZZZZZ	Batch ID: 60330	TestNo: SW6020	Analysis Date: 12/15/2011	SeqNo: 2071871							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	14270	240	30.06	12040	7420	75	125	10860	27.1	20	SR
Calcium	64810	720	120.2	61920	2400	75	125	60440	6.98	20	S

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

Prep Start Date: **12/15/2011 3:00:00**

 Prep End Date: **12/15/2011 5:00:00**

Prep Factor Units:

mL / mL

 Prep Batch **60356**

 Prep Code: **M_W_PREP**

 Technician: **RW**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBW1 12/15/11			50	0	0	50	1.000	12/15/2011	12/15/2011
ILCSW1 12/15/11			50	0	0	50	1.000	12/15/2011	12/15/2011
IMBTA1 12/14/11			50	0	0	50	1.000	12/15/2011	12/15/2011
11111023-003A	Soil		50	0	0	50	1.000	12/15/2011	12/15/2011
11111023-003AMS	Soil		50	0	0	50	1.000	12/15/2011	12/15/2011
11111023-003AMSD	Soil		50	0	0	50	1.000	12/15/2011	12/15/2011
11120395-013A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120395-014A	Solid		20	0	0	50	2.500	12/15/2011	12/15/2011
11120395-015A	Solid		20	0	0	50	2.500	12/15/2011	12/15/2011
11120395-016A	Solid		20	0	0	50	2.500	12/15/2011	12/15/2011
11120395-017A	Solid		20	0	0	50	2.500	12/15/2011	12/15/2011
11120420-001A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120430-002A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120434-001A	Soil		50	0	0	50	1.000	12/15/2011	12/15/2011
11120434-002A	Soil		50	0	0	50	1.000	12/15/2011	12/15/2011
11120039-001A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120039-004A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120039-006A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120039-009A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120039-010A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120039-011A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
IMBTB 12/14/11	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120039-007A	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120039-007AMS	Solid		50	0	0	50	1.000	12/15/2011	12/15/2011
11120329-013C	Water		20	0	0	50	2.500	12/15/2011	12/15/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60356

Sample ID	IMBTA1 12/14/11	SampType:	MBLK	TestCode:	M_ICPMS_T+	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	ICPMS_111215A
Client ID:	ZZZZZ	Batch ID:	60356	TestNo:	SW1311/6020			Analysis Date:	12/15/2011	SeqNo:	2071940
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	ND	0.50									
Cadmium	ND	0.0050									
Chromium	ND	0.010									
Lead	ND	0.0050									
Selenium	ND	0.010									
Silver	ND	0.010									

Sample ID	11111023-003AMS	SampType:	MS	TestCode:	M_ICPMS_T+	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	ICPMS_111215A
Client ID:	ZZZZZ	Batch ID:	60356	TestNo:	SW1311/6020			Analysis Date:	12/15/2011	SeqNo:	2072106
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.477	0.010	0.5	0	95.4	75	125	0	0		
Barium	1.041	0.50	0.5	0.5158	105	75	125	0	0		
Cadmium	0.4469	0.0050	0.5	0	89.4	75	125	0	0		
Chromium	0.479	0.010	0.5	0	95.8	75	125	0	0		
Lead	0.7009	0.0050	0.5	0.1752	105	75	125	0	0		
Selenium	0.4234	0.010	0.5	0	84.7	75	125	0	0		
Silver	0.1753	0.010	0.2	0	87.6	75	125	0	0		

Sample ID	11111023-003AMSD	SampType:	MSD	TestCode:	M_ICPMS_T+	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	ICPMS_111215A
Client ID:	ZZZZZ	Batch ID:	60356	TestNo:	SW1311/6020			Analysis Date:	12/15/2011	SeqNo:	2072107
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.4613	0.010	0.5	0	92.3	75	125	0.477	3.35	20	
Barium	1.023	0.50	0.5	0.5158	101	75	125	1.041	1.74	20	
Cadmium	0.4376	0.0050	0.5	0	87.5	75	125	0.4469	2.10	20	
Chromium	0.4658	0.010	0.5	0	93.2	75	125	0.479	2.79	20	
Lead	0.6797	0.0050	0.5	0.1752	101	75	125	0.7009	3.07	20	
Selenium	0.4162	0.010	0.5	0	83.2	75	125	0.4234	1.72	20	
Silver	0.1686	0.010	0.2	0	84.3	75	125	0.1753	3.90	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60356

Sample ID	IMBW1 12/15/11	SampType:	MBLK	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	ICPMS_111215A		
Client ID:	ZZZZZ	Batch ID:	60356	TestNo:	SW6020			Analysis Date:	12/15/2011	SeqNo:	2071941		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.0040
Barium	ND	0.0040
Cadmium	ND	0.0020
Chromium	ND	0.0040
Lead	ND	0.0020
Selenium	ND	0.0040
Silver	ND	0.0040

Sample ID	ILCSW1 12/15/11	SampType:	LCS	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	ICPMS_111215A		
Client ID:	ZZZZZ	Batch ID:	60356	TestNo:	SW6020			Analysis Date:	12/15/2011	SeqNo:	2071944		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.4774	0.0040	0.5	0	95.5	80	120	0	0
Barium	0.5327	0.0040	0.5	0	107	80	120	0	0
Cadmium	0.5002	0.0020	0.5	0	100	80	120	0	0
Chromium	0.509	0.0040	0.5	0	102	80	120	0	0
Lead	0.5079	0.0020	0.5	0	102	80	120	0	0
Selenium	0.4612	0.0040	0.5	0	92.2	80	120	0	0
Silver	0.1937	0.0040	0.2	0	96.8	80	120	0	0

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: **12/14/2011 7:26:00**

 Prep End Date: **12/15/2011 12:00:00**

Prep Factor Units:

 Prep Batch **60361**

 Prep Code: **M_W_PREP**

 Technician: **LB**

mL / mL

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBW4 12/14/11			50	0	0	50	1.000	12/14/2011	12/15/2011
ILCSW4 12/14/11			50	0	0	50	1.000	12/14/2011	12/15/2011
11120395-001A	Liquid		5	0	0	50	10.000	12/14/2011	12/15/2011
11120395-002A	Liquid		1	0	0	50	50.000	12/14/2011	12/15/2011
11120395-003A	Liquid		5	0	0	50	10.000	12/14/2011	12/15/2011
11120395-004A	Liquid		5	0	0	50	10.000	12/14/2011	12/15/2011
11120395-005A	Liquid		1	0	0	50	50.000	12/14/2011	12/15/2011
11120395-006A	Liquid		5	0	0	50	10.000	12/14/2011	12/15/2011
11120395-007AMS	Liquid		5	0	0	50	10.000	12/14/2011	12/15/2011
11120395-007AMSD	Liquid		5	0	0	50	10.000	12/14/2011	12/15/2011
11120395-007A	Liquid		5	0	0	50	10.000	12/14/2011	12/15/2011
11120395-010A	Liquid		5	0	0	50	10.000	12/14/2011	12/15/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60361

Sample ID	IMBW4 12/14/11	SampType:	MBLK	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	ICPMS-2_111216A		
Client ID:	ZZZZZ	Batch ID:	60361	TestNo:	SW6020			Analysis Date:	12/16/2011	SeqNo:	2072594		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	ND	0.040															
Antimony	ND	0.0060															
Arsenic	ND	0.0040															
Barium	ND	0.0040															
Beryllium	ND	0.0020															
Cadmium	0.00371	0.0040															J
Calcium	ND	0.20															
Chromium	0.0024	0.0040															J
Cobalt	ND	0.0040															
Copper	0.00137	0.010															J
Iron	ND	0.10															
Lead	0.0012	0.0020															J
Magnesium	ND	0.10															
Manganese	0.00029	0.0040															J
Potassium	ND	0.10															
Selenium	ND	0.0040															
Silver	0.00022	0.0040															J
Sodium	ND	0.30															
Thallium	ND	0.0020															
Vanadium	0.00584	0.0080															J
Zinc	0.01286	0.020															J

Sample ID	IMBW4 12/14/11	SampType:	MBLK	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	ICPMS_111216A		
Client ID:	ZZZZZ	Batch ID:	60361	TestNo:	SW6020			Analysis Date:	12/16/2011	SeqNo:	2072807		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nickel	ND	0.0040															
--------	----	--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60361

Sample ID	ILCSW4 12/14/11	SampType: LCS	TestCode: M_ICPMS_W Units: mg/L			Prep Date: 12/14/2011			Run ID: ICPMS-2_111216A		
Client ID:	ZZZZZ	Batch ID: 60361	TestNo: SW6020			Analysis Date: 12/16/2011			SeqNo: 2072557		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.5148	0.040	0.5	0	103	80	120	0	0		
Antimony	0.2591	0.0060	0.25	0	104	80	120	0	0		
Arsenic	0.4837	0.0040	0.5	0	96.7	80	120	0	0		
Barium	0.4825	0.0040	0.5	0	96.5	80	120	0	0		
Beryllium	0.4265	0.0020	0.5	0	85.3	80	120	0	0		
Cadmium	0.4698	0.0040	0.5	0.00371	93.2	80	120	0	0		
Calcium	2.027	0.20	2	0	101	80	120	0	0		
Chromium	0.5151	0.0040	0.5	0.0024	103	80	120	0	0		
Cobalt	0.5037	0.0040	0.5	0	101	80	120	0	0		
Copper	0.5192	0.010	0.5	0.00137	104	80	120	0	0		
Iron	2.076	0.10	2	0	104	80	120	0	0		
Lead	0.503	0.0020	0.5	0.0012	100	80	120	0	0		
Magnesium	2.179	0.10	2	0	109	80	120	0	0		
Manganese	0.5071	0.0040	0.5	0.00029	101	80	120	0	0		
Potassium	2.177	0.10	2	0	109	80	120	0	0		
Selenium	0.4543	0.0040	0.5	0	90.9	80	120	0	0		
Silver	0.2031	0.0040	0.2	0.00022	101	80	120	0	0		
Sodium	2.249	0.30	2	0	112	80	120	0	0		
Thallium	0.5105	0.0020	0.5	0	102	80	120	0	0		
Vanadium	0.5	0.0080	0.5	0.00584	98.8	80	120	0	0		
Zinc	0.4557	0.020	0.5	0.01286	88.6	80	120	0	0		

Sample ID	ILCSW4 12/14/11	SampType: LCS	TestCode: M_ICPMS_W Units: mg/L				Prep Date: 12/14/2011			Run ID: ICPMS_111216A		
Client ID:	ZZZZZ	Batch ID: 60361	TestNo: SW6020				Analysis Date: 12/16/2011			SeqNo: 2072808		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nickel	0.4994	0.0040	0.5	0	99.9	80	120	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60361

Sample ID	11120395-007AMS	SampType: MS	TestCode: M_ICPMS_W	Units: mg/L	Prep Date: 12/14/2011	Run ID: ICPMS-2_111216A					
Client ID:	BMF-WL07-121211	Batch ID: 60361	TestNo: SW6020		Analysis Date: 12/16/2011	SeqNo: 2072559					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	4923	100	5	4937	-280	75	125	0	0		S
------	------	-----	---	------	------	----	-----	---	---	--	---

Sample ID	11120395-007AMS	SampType: MS	TestCode: M_ICPMS_W	Units: mg/L	Prep Date: 12/14/2011	Run ID: ICPMS-2_111216A					
Client ID:	BMF-WL07-121211	Batch ID: 60361	TestNo: SW6020		Analysis Date: 12/16/2011	SeqNo: 2072785					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	ND	20	5	0	0	75	125	0	0		S
Calcium	510.6	100	20	519.8	-46	75	125	0	0		S
Iron	799.1	50	20	831.7	-163	75	125	0	0		S
Magnesium	111.8	50	20	95.81	80	75	125	0	0		
Potassium	97.61	50	20	78.1	97.6	75	125	0	0		
Sodium	249.9	150	20	238.3	58	75	125	0	0		S
Vanadium	4.992	2.0	5	0	99.8	75	125	0	0		

Sample ID	11120395-007AMS	SampType: MS	TestCode: M_ICPMS_W	Units: mg/L	Prep Date: 12/14/2011	Run ID: ICPMS_111216A					
Client ID:	BMF-WL07-121211	Batch ID: 60361	TestNo: SW6020		Analysis Date: 12/16/2011	SeqNo: 2072947					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	3.852	0.60	2.5	0.3803	139	75	125	0	0		S
Arsenic	5.082	0.40	5	0	102	75	125	0	0		
Barium	6.377	0.40	5	1.344	101	75	125	0	0		
Beryllium	5.054	0.20	5	0	101	75	125	0	0		
Cadmium	11.77	0.40	5	6.24	111	75	125	0	0		
Chromium	85.76	0.40	5	79.99	115	75	125	0	0		
Cobalt	12.65	0.40	5	7.23	108	75	125	0	0		
Copper	9.188	1.0	5	3.94	105	75	125	0	0		
Lead	6.058	0.20	5	0.9879	101	75	125	0	0		
Manganese	14.24	0.40	5	8.779	109	75	125	0	0		
Nickel	9.657	0.40	5	4.53	103	75	125	0	0		
Selenium	5.171	0.40	5	0	103	75	125	0	0		
Silver	2.737	0.40	2	0.6881	102	75	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60361

Sample ID	11120395-007AMS	SampType:	MS	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	ICPMS_111216A
Client ID:	BMF-WL07-121211	Batch ID:	60361	TestNo:	SW6020			Analysis Date:	12/16/2011	SeqNo:	2072947
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Thallium	4.819	0.20	5	0	96.4	75	125	0	0		
----------	-------	------	---	---	------	----	-----	---	---	--	--

Sample ID	11120395-007AMSD	SampType:	MSD	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	ICPMS-2_111216A
Client ID:	BMF-WL07-121211	Batch ID:	60361	TestNo:	SW6020			Analysis Date:	12/16/2011	SeqNo:	2072560
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	4900	100	5	4937	-740	75	125	4923	0.468	20	S
------	------	-----	---	------	------	----	-----	------	-------	----	---

Sample ID	11120395-007AMSD	SampType:	MSD	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	ICPMS-2_111216A
Client ID:	BMF-WL07-121211	Batch ID:	60361	TestNo:	SW6020			Analysis Date:	12/16/2011	SeqNo:	2072786
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	ND	20	5	0	0	75	125	0	0	20	S
Calcium	545.7	100	20	519.8	130	75	125	510.6	6.65	20	S
Iron	859.9	50	20	831.7	141	75	125	799.1	7.33	20	S
Magnesium	115.7	50	20	95.81	99.4	75	125	111.8	3.43	20	
Potassium	107	50	20	78.1	144	75	125	97.61	9.18	20	S
Sodium	252.8	150	20	238.3	72.5	75	125	249.9	1.15	20	S
Vanadium	5.867	2.0	5	0	117	75	125	4.992	16.1	20	

Sample ID	11120395-007AMSD	SampType:	MSD	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	ICPMS_111216A
Client ID:	BMF-WL07-121211	Batch ID:	60361	TestNo:	SW6020			Analysis Date:	12/16/2011	SeqNo:	2072948
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	3.832	0.60	2.5	0.3803	138	75	125	3.852	0.521	20	S
Arsenic	5.304	0.40	5	0	106	75	125	5.082	4.27	20	
Barium	6.499	0.40	5	1.344	103	75	125	6.377	1.89	20	
Beryllium	5.1	0.20	5	0	102	75	125	5.054	0.906	20	
Cadmium	11.86	0.40	5	6.24	112	75	125	11.77	0.762	20	
Chromium	90.27	0.40	5	79.99	206	75	125	85.76	5.12	20	S
Cobalt	13.11	0.40	5	7.23	118	75	125	12.65	3.57	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60361

Sample ID	11120395-007AMSD	SampType:	MSD	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	ICPMS_111216A
Client ID:	BMF-WL07-121211	Batch ID:	60361	TestNo:	SW6020			Analysis Date:	12/16/2011	SeqNo:	2072948
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.666	1.0	5	3.94	115	75	125	9.188	5.07	20	
Lead	6.22	0.20	5	0.9879	105	75	125	6.058	2.64	20	
Manganese	14.71	0.40	5	8.779	119	75	125	14.24	3.25	20	
Nickel	9.999	0.40	5	4.53	109	75	125	9.657	3.48	20	
Selenium	5.372	0.40	5	0	107	75	125	5.171	3.81	20	
Silver	2.807	0.40	2	0.6881	106	75	125	2.737	2.53	20	
Thallium	4.992	0.20	5	0	99.8	75	125	4.819	3.53	20	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: **12/21/2011 1:40:00**

 Prep End Date: **12/21/2011 3:00:00**

Prep Factor Units:

mL / mL

 Prep Batch **60445**

 Prep Code: **M_W_PREP**

 Technician: **RW**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBW1 12/21/11			50	0	0	50	1.000	12/21/2011	12/21/2011
ILCSW1 12/21/11			50	0	0	50	1.000	12/21/2011	12/21/2011
IMBTA1 12/20/11			50	0	0	50	1.000	12/21/2011	12/21/2011
11120565-001B	Soil		50	0	0	50	1.000	12/21/2011	12/21/2011
11120565-002B	Soil		50	0	0	50	1.000	12/21/2011	12/21/2011
11120565-002BMS	Soil		50	0	0	50	1.000	12/21/2011	12/21/2011
11120565-002BMDS	Soil		50	0	0	50	1.000	12/21/2011	12/21/2011
11120329-004B	Soil		50	0	0	50	1.000	12/21/2011	12/21/2011
11120562-001A	Oil / Water		50	0	0	50	1.000	12/21/2011	12/21/2011
11120562-002A	Solid		50	0	0	50	1.000	12/21/2011	12/21/2011
11120592-001B	Soil		50	0	0	50	1.000	12/21/2011	12/21/2011
11120594-001A	Water		50	0	0	50	1.000	12/21/2011	12/21/2011
11120594-002A	Solid		50	0	0	50	1.000	12/21/2011	12/21/2011
11120596-002A	Sludge		50	0	0	50	1.000	12/21/2011	12/21/2011
11120597-001A	Solid		50	0	0	50	1.000	12/21/2011	12/21/2011
11120395-011A	Liquid		5	0	0	50	10.000	12/21/2011	12/21/2011
11120395-012A			5	0	0	50	10.000	12/21/2011	12/21/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60445

Sample ID	11120565-002BMS	SampType:	MS	TestCode:	M_ICPMS_T+	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	ICPMS_111221A
Client ID:	ZZZZZ	Batch ID:	60445	TestNo:	SW1311/6020			Analysis Date:	12/21/2011	SeqNo:	2075693
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.5871	0.10	0.5	0	117	75	125	0	0		
Antimony	0.3723	0.015	0.25	0.01476	143	75	125	0	0		S
Arsenic	0.5019	0.010	0.5	0	100	75	125	0	0		
Barium	0.6067	0.50	0.5	0.06586	108	75	125	0	0		
Beryllium	0.511	0.0050	0.5	0	102	75	125	0	0		
Cadmium	0.487	0.0050	0.5	0	97.4	75	125	0	0		
Calcium	222.5	0.50	2	214.7	390	75	125	0	0		S
Chromium	0.5228	0.010	0.5	0	105	75	125	0	0		
Cobalt	0.5127	0.010	0.5	0.00329	102	75	125	0	0		
Copper	0.5529	0.10	0.5	0.05564	99.5	75	125	0	0		
Iron	5.087	0.25	2	2.961	106	75	125	0	0		
Lead	0.5358	0.0050	0.5	0.00508	106	75	125	0	0		
Magnesium	112.9	0.25	2	104.2	435	75	125	0	0		S
Manganese	1.731	0.010	0.5	1.226	101	75	125	0	0		
Nickel	0.5158	0.020	0.5	0.01881	99.4	75	125	0	0		
Potassium	3.522	0.25	2	1.362	108	75	125	0	0		
Selenium	0.4647	0.010	0.5	0	92.9	75	125	0	0		
Silver	0.1992	0.010	0.2	0.00195	98.6	75	125	0	0		
Sodium	1422	0.75	2	1353	3450	75	125	0	0		SE
Thallium	0.5199	0.0050	0.5	0.00103	104	75	125	0	0		
Zinc	0.5659	0.50	0.5	0.1302	87.1	75	125	0	0		

Sample ID	11120565-002BMSD	SampType:	MSD	TestCode:	M_ICPMS_T+	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	ICPMS_111221A
Client ID:	ZZZZZ	Batch ID:	60445	TestNo:	SW1311/6020			Analysis Date:	12/21/2011	SeqNo:	2075694
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.5807	0.10	0.5	0	116	75	125	0.5871	1.10	20	
Antimony	0.3665	0.015	0.25	0.01476	141	75	125	0.3723	1.57	20	S
Arsenic	0.4989	0.010	0.5	0	99.8	75	125	0.5019	0.600	20	
Barium	0.595	0.50	0.5	0.06586	106	75	125	0.6067	1.95	20	
Beryllium	0.5086	0.0050	0.5	0	102	75	125	0.511	0.471	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60445

Sample ID	11120565-002BMSD	SampType:	MSD	TestCode:	M_ICPMS_T+	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	ICPMS_111221A
Client ID:	ZZZZZ	Batch ID:	60445	TestNo:	SW1311/6020			Analysis Date:	12/21/2011	SeqNo:	2075694
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.4822	0.0050	0.5	0	96.4	75	125	0.487	0.991	20	
Calcium	221.9	0.50	2	214.7	360	75	125	222.5	0.270	20	S
Chromium	0.5161	0.010	0.5	0	103	75	125	0.5228	1.29	20	
Cobalt	0.5089	0.010	0.5	0.00329	101	75	125	0.5127	0.744	20	
Copper	0.5353	0.10	0.5	0.05564	95.9	75	125	0.5529	3.23	20	
Iron	5.139	0.25	2	2.961	109	75	125	5.087	1.02	20	
Lead	0.5304	0.0050	0.5	0.00508	105	75	125	0.5358	1.01	20	
Magnesium	111	0.25	2	104.2	340	75	125	112.9	1.70	20	S
Manganese	1.736	0.010	0.5	1.226	102	75	125	1.731	0.288	20	
Nickel	0.5013	0.020	0.5	0.01881	96.5	75	125	0.5158	2.85	20	
Potassium	3.425	0.25	2	1.362	103	75	125	3.522	2.79	20	
Selenium	0.4654	0.010	0.5	0	93.1	75	125	0.4647	0.151	20	
Silver	0.1947	0.010	0.2	0.00195	96.4	75	125	0.1992	2.28	20	
Sodium	1413	0.75	2	1353	3000	75	125	1422	0.635	20	SE
Thallium	0.5184	0.0050	0.5	0.00103	103	75	125	0.5199	0.289	20	
Zinc	0.554	0.50	0.5	0.1302	84.8	75	125	0.5659	2.13	20	

Sample ID	IMBW1 12/21/11	SampType:	MBLK	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	ICPMS_111221A
Client ID:	ZZZZZ	Batch ID:	60445	TestNo:	SW6020			Analysis Date:	12/21/2011	SeqNo:	2075476
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.040									
Antimony	0.00373	0.0060									J
Arsenic	ND	0.0040									
Barium	ND	0.0040									
Beryllium	0.00021	0.0020									J
Cadmium	ND	0.0020									
Calcium	ND	0.20									
Chromium	ND	0.0040									
Cobalt	ND	0.0040									
Copper	ND	0.010									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60445

Sample ID	IMBW1 12/21/11	SampType:	MBLK	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	ICPMS_111221A
Client ID:	ZZZZZ	Batch ID:	60445	TestNo:	SW6020			Analysis Date:	12/21/2011	SeqNo:	2075476
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	ND	0.10									
Lead	0.00146	0.0020									J
Magnesium	ND	0.10									
Manganese	ND	0.0040									
Nickel	ND	0.0040									
Potassium	ND	0.10									
Selenium	ND	0.0040									
Silver	0.00069	0.0040									J
Sodium	ND	0.30									
Thallium	0.00074	0.0020									J
Vanadium	ND	0.0040									
Zinc	ND	0.020									

Sample ID	ILCSW1 12/21/11	SampType:	LCS	TestCode:	M_ICPMS_W	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	ICPMS_111221A
Client ID:	ZZZZZ	Batch ID:	60445	TestNo:	SW6020			Analysis Date:	12/21/2011	SeqNo:	2075481
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	0.5288	0.040	0.5	0	106	80	120	0	0		
Antimony	0.3761	0.0060	0.25	0.00373	149	80	120	0	0		S
Arsenic	0.515	0.0040	0.5	0	103	80	120	0	0		
Barium	0.5351	0.0040	0.5	0	107	80	120	0	0		
Beryllium	0.5091	0.0020	0.5	0.00021	102	80	120	0	0		
Cadmium	0.5433	0.0020	0.5	0	109	80	120	0	0		
Calcium	2.122	0.20	2	0	106	80	120	0	0		
Chromium	0.5246	0.0040	0.5	0	105	80	120	0	0		
Copper	0.5279	0.010	0.5	0	106	80	120	0	0		
Lead	0.534	0.0020	0.5	0.00146	107	80	120	0	0		
Magnesium	2.143	0.10	2	0	107	80	120	0	0		
Manganese	0.532	0.0040	0.5	0	106	80	120	0	0		
Nickel	0.5414	0.0040	0.5	0	108	80	120	0	0		
Potassium	2.148	0.10	2	0	107	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60445

Sample ID	ILCSW1 12/21/11	SampType: LCS	TestCode: M_ICPMS_W Units: mg/L			Prep Date: 12/21/2011			Run ID: ICPMS_111221A		
Client ID:	ZZZZZ	Batch ID: 60445	TestNo: SW6020			Analysis Date: 12/21/2011			SeqNo: 2075481		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.5183	0.0040	0.5	0	104	80	120	0	0		
Silver	0.2194	0.0040	0.2	0.00069	109	80	120	0	0		
Sodium	2.216	0.30	2	0	111	80	120	0	0		
Thallium	0.5178	0.0020	0.5	0.00074	103	80	120	0	0		
Zinc	0.5154	0.020	0.5	0	103	80	120	0	0		

Sample ID	ILCSW1 12/21/11	SampType: LCS	TestCode: M_ICPMS_W Units: mg/L			Prep Date: 12/21/2011			Run ID: ICPMS_111221A		
Client ID:	ZZZZZ	Batch ID: 60445	TestNo: SW6020			Analysis Date: 12/21/2011			SeqNo: 2075696		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cobalt	0.5236	0.0040	0.5	0	105	80	120	0	0		
Iron	2.133	0.10	2	0	107	80	120	0	0		

Sample ID	ILCSW1 12/21/11	SampType: LCS	TestCode: M_ICPMS_W Units: mg/L				Prep Date: 12/21/2011			Run ID: ICPMS-2_111221B		
Client ID:	ZZZZZ	Batch ID: 60445	TestNo: SW6020				Analysis Date: 12/21/2011			SeqNo: 2075799		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Vanadium	0.5372	0.0040	0.5	0	107	80	120	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

Prep Start Date: **12/15/2011 5:19:00**

 Prep End Date: **12/15/2011 5:56:00**

Prep Factor Units:

 Prep Batch **60365** Prep Code: **M_HG_S_PRE** Technician: **LB**
mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBS1 12/15/11			0.301	0	0	30	99.668	12/15/2011	12/15/2011
HGLCSS1 12/15/11			0.3	0	0	30	100.000	12/15/2011	12/15/2011
11120419-001A	Soil		0.394	0	0	30	76.142	12/15/2011	12/15/2011
11120419-002A	Soil		0.385	0	0	30	77.922	12/15/2011	12/15/2011
11120395-013A	Solid		0.317	0	0	30	94.637	12/15/2011	12/15/2011
11120395-014A	Solid		0.36	0	0	30	83.333	12/15/2011	12/15/2011
11120395-015A	Solid		0.305	0	0	30	98.361	12/15/2011	12/15/2011
11120395-016A	Solid		0.34	0	0	30	88.235	12/15/2011	12/15/2011
11120395-017A	Solid		0.326	0	0	30	92.025	12/15/2011	12/15/2011
11120436-001A	Oil		0.3	0	0	30	100.000	12/15/2011	
11120405-004B	Soil		0.361	0	0	30	83.102	12/15/2011	12/15/2011
11120405-004BMS	Soil		0.367	0	0	30	81.744	12/15/2011	12/15/2011
11120405-004BMSD	Soil		0.364	0	0	30	82.418	12/15/2011	12/15/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60365

Sample ID	HGMBS1 12/15/11	SampType:	MBLK	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	12/15/2011	Run ID:	CETAC_111215C
Client ID:	ZZZZZ	Batch ID:	60365	TestNo:	SW7471A			Analysis Date:	12/15/2011	SeqNo:	2072332
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Mercury		0.001993		0.020							J

Sample ID	HGLCSS1 12/15/11	SampType:	LCS	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	12/15/2011	Run ID:	CETAC_111215C
Client ID:	ZZZZZ	Batch ID:	60365	TestNo:	SW7471A			Analysis Date:	12/15/2011	SeqNo:	2072333
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Mercury		0.237		0.020	0.25	0.001993	94	80	120	0	0

Sample ID	11120405-004BMS	SampType:	MS	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	12/15/2011	Run ID:	CETAC_111215C
Client ID:	ZZZZZ	Batch ID:	60365	TestNo:	SW7471A			Analysis Date:	12/15/2011	SeqNo:	2072340
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Mercury		0.2363		0.019	0.2421	0.005908	95.2	75	125	0	0

Sample ID	11120405-004BMSD	SampType:	MSD	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	12/15/2011	Run ID:	CETAC_111215C
Client ID:	ZZZZZ	Batch ID:	60365	TestNo:	SW7471A			Analysis Date:	12/15/2011	SeqNo:	2072343
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Mercury		0.2275		0.020	0.2441	0.005908	90.8	75	125	0.2363	3.79 20

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

Prep Start Date: **12/16/2011 5:10:00**

 Prep End Date: **12/16/2011 7:10:00**

Prep Factor Units:

mL / mL

 Prep Batch **60366** Prep Code: **M_HG_W_PRE** Technician: **LB**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBW1 12/15/11			30	0	0	30	1.000	12/15/2011	12/15/2011
HGLCSW1 12/15/11			30	0	0	30	1.000	12/15/2011	12/15/2011
11120395-001A	Liquid		1	0	0	30	30.000	12/15/2011	12/15/2011
11120395-002A	Liquid		1	0	0	30	30.000	12/15/2011	12/15/2011
11120395-003A	Liquid		1	0	0	30	30.000	12/15/2011	12/15/2011
11120395-004A	Liquid		1	0	0	30	30.000	12/15/2011	12/15/2011
11120395-005A	Liquid		0.1	0	0	30	300.000	12/15/2011	12/15/2011
11120395-006A	Liquid		1	0	0	30	30.000	12/15/2011	12/15/2011
11120395-007A	Liquid		1	0	0	30	30.000	12/15/2011	12/15/2011
HGMBTA1 12/14/11			30	0	0	30	1.000	12/15/2011	12/15/2011
11111023-003A	Soil		30	0	0	30	1.000	12/15/2011	12/15/2011
11120039-003A	Solid		30	0	0	30	1.000	12/15/2011	12/15/2011
11120039-008A	Solid		30	0	0	30	1.000	12/15/2011	12/15/2011
11120395-013A	Solid		5	0	0	30	6.000	12/15/2011	12/15/2011
11120395-014A	Solid		5	0	0	30	6.000	12/15/2011	12/15/2011
11120395-015A	Solid		5	0	0	30	6.000	12/15/2011	12/15/2011
11120395-016A	Solid		5	0	0	30	6.000	12/15/2011	12/15/2011
11120395-017A	Solid		5	0	0	30	6.000	12/15/2011	12/15/2011
11120434-001A	Soil		30	0	0	30	1.000	12/15/2011	12/15/2011
11120434-002A	Soil		30	0	0	30	1.000	12/15/2011	12/15/2011
11120434-002AMS	Soil		30	0	0	30	1.000	12/15/2011	12/15/2011
11120434-002AMSD	Soil		30	0	0	30	1.000	12/15/2011	12/15/2011
11120395-010A	Liquid		1	0	0	30	30.000	12/15/2011	12/15/2011
HGMBTA1 12/15/11			30	0	0	30	1.000	12/16/2011	12/16/2011
11120444-001A	Sludge		5	0	0	30	6.000	12/16/2011	12/16/2011

Prep Start Date: **12/16/2011 5:10:00**Prep End Date: **12/16/2011 7:10:00**

Prep Factor Units:

Prep Batch **60366** Prep Code: **M_HG_W_PRE** Technician: **LB****mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
11120444-001AMS	Sludge		5	0	0	30	6.000	12/16/2011	12/16/2011
11120446-001A	Crushed Bulb:		15	0	0	30	2.000	12/16/2011	12/16/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60366

Sample ID	HGMBTA1 12/14/11	SampType: MBLK	TestCode: M_1311_HG	Units: mg/L	Prep Date: 12/15/2011	Run ID: CETAC_111216A					
Client ID: ZZZZZ	Batch ID: 60366	TestNo: SW1311/7470	Analysis Date: 12/16/2011	SeqNo: 2072736							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.00020

Sample ID	11120434-002AMS	SampType:	MS	TestCode:	M_1311_HG	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	CETAC_111216A		
Client ID:	ZZZZZ	Batch ID:	60366	TestNo:	SW1311/7470			Analysis Date:	12/16/2011	SeqNo:	2072770		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.00268 0.00020 0.0025 0 107 75 125 0 0

Sample ID	11120434-002AMSD	SampType:	MSD	TestCode:	M_1311_HG	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	CETAC_111216A		
Client ID:	ZZZZZ	Batch ID:	60366	TestNo:	SW1311/7470			Analysis Date:	12/16/2011	SeqNo:	2072769		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.00283 0.00020 0.0025 0 113 75 125 0.00268 5.44 20

Sample ID	HGMBW1 12/15/11	SampType:	MBLK	TestCode:	M_HG_WATE	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	CETAC_111216A		
Client ID:	ZZZZZ	Batch ID:	60366	TestNo:	SW7470A			Analysis Date:	12/16/2011	SeqNo:	2072724		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.00020

Sample ID	HGLCSW1 12/15/11	SampType:	LCS	TestCode:	M_HG_WATE	Units:	mg/L	Prep Date:	12/15/2011	Run ID:	CETAC_111216A		
Client ID:	ZZZZZ	Batch ID:	60366	TestNo:	SW7470A			Analysis Date:	12/16/2011	SeqNo:	2072725		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.00263 0.00020 0.0025 0 105 85 115 0 0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

Prep Start Date: **12/21/2011 12:20:00**

 Prep End Date: **12/21/2011 2:20:00**

Prep Factor Units:

mL / mL

 Prep Batch **60448** Prep Code: **M_HG_W_PRE** Technician: **LB**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBW1 12/21/11			30	0	0	30	1.000	12/21/2011	12/21/2011
HGLCSW1 12/21/11			30	0	0	30	1.000	12/21/2011	12/21/2011
11120395-011A			5	0	0	30	6.000	12/21/2011	12/21/2011
11120395-012A			5	0	0	30	6.000	12/21/2011	12/21/2011
HGMBTA1 12/20/11			30	0	0	30	1.000	12/21/2011	12/21/2011
11120565-001B	Soil		30	0	0	30	1.000	12/21/2011	12/21/2011
11120565-002B	Soil		30	0	0	30	1.000	12/21/2011	12/21/2011
11120592-001B	Soil		30	0	0	30	1.000	12/21/2011	12/21/2011
11120607-003C	Water		30	0	0	30	1.000	12/21/2011	12/21/2011
11120607-004C	Water		30	0	0	30	1.000	12/21/2011	12/21/2011
11120607-005C	Water		30	0	0	30	1.000	12/21/2011	12/21/2011
11120565-001BMS	Soil		30	0	0	30	1.000	12/21/2011	12/21/2011
11120565-001BMSD	Soil		30	0	0	30	1.000	12/21/2011	12/21/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60448

Sample ID	HGMBTA1 12/20/11	SampType:	MBLK	TestCode:	M_1311_HG	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	CETAC_111221A		
Client ID:	ZZZZZ	Batch ID:	60448	TestNo:	SW1311/7470			Analysis Date:	12/21/2011	SeqNo:	2075612		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.00020

Sample ID	11120565-001BMS	SampType:	MS	TestCode:	M_1311_HG	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	CETAC_111221A		
Client ID:	ZZZZZ	Batch ID:	60448	TestNo:	SW1311/7470			Analysis Date:	12/21/2011	SeqNo:	2075614		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.00271 0.00020 0.0025 0 108 75 125 0 0

Sample ID	11120565-001BMSD	SampType:	MSD	TestCode:	M_1311_HG	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	CETAC_111221A		
Client ID:	ZZZZZ	Batch ID:	60448	TestNo:	SW1311/7470			Analysis Date:	12/21/2011	SeqNo:	2075615		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.00262 0.00020 0.0025 0 105 75 125 0.00271 3.38 20

Sample ID	HGMBW1 12/21/11	SampType:	MBLK	TestCode:	M_HG_WATE	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	CETAC_111221A		
Client ID:	ZZZZZ	Batch ID:	60448	TestNo:	SW7470A			Analysis Date:	12/21/2011	SeqNo:	2075608		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.00004 0.00020 J

Sample ID	HGLCSW1 12/21/11	SampType:	LCS	TestCode:	M_HG_WATE	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	CETAC_111221A		
Client ID:	ZZZZZ	Batch ID:	60448	TestNo:	SW7470A			Analysis Date:	12/21/2011	SeqNo:	2075609		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.00251 0.00020 0.0025 0.00004 98.8 85 115 0 0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

Prep Start Date: **12/15/2011 12:00:00**

 Prep End Date: **12/16/2011 5:05:00**

Prep Factor Units:

 Prep Batch **60369**

 Prep Code: **TCNPREP_S**

 Technician: **YZ**

mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
TCNMBS1 121511			1	0	0	50	50.000	12/15/2011	12/15/2011
TCNLCSS1 121511			1	0	0	50	50.000	12/15/2011	12/15/2011
11111023-003A	Soil		1	0	0	50	50.000	12/15/2011	12/15/2011
11120395-013A	Solid		0.2	0	0	50	250.000	12/15/2011	12/15/2011
11120395-014A	Solid		0.2	0	0	50	250.000	12/15/2011	12/15/2011
11120395-015A	Solid		0.2	0	0	50	250.000	12/15/2011	12/15/2011
11120395-016A	Solid		0.2	0	0	50	250.000	12/15/2011	12/15/2011
11120395-017A	Solid		0.2	0	0	50	250.000	12/15/2011	12/15/2011
11120405-003B	Soil		1	0	0	50	50.000	12/15/2011	12/15/2011
11120405-005B	Soil		1	0	0	50	50.000	12/15/2011	12/15/2011
11120405-003BMS	Soil		1	0	0	50	50.000	12/15/2011	12/15/2011
11120405-003BMSD	Soil		1	0	0	50	50.000	12/15/2011	12/15/2011
11120405-003B*	Soil		1	0	0	50	50.000	12/16/2011	12/16/2011
11120405-003B**	Soil		0.2	0	0	50	250.000	12/16/2011	12/16/2011
11120405-003BMS*	Soil		0.2	0	0	50	250.000	12/16/2011	12/16/2011
11120405-003BMSD*	Soil		0.2	0	0	50	250.000	12/16/2011	12/16/2011
11120405-005B*	Soil		1	0	0	50	50.000	12/16/2011	12/16/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60369

Sample ID	TCNMBS1 121511	SampType:	MBLK	TestCode:	CN_TS	Units:	mg/Kg	Prep Date:	12/15/2011	Run ID:	LACHAT_111216A
Client ID:	ZZZZZ	Batch ID:	60369	TestNo:	SW9012A			Analysis Date:	12/16/2011	SeqNo:	2072474
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Cyanide ND 0.25

Sample ID	TCNLCSS1 121511	SampType:	LCS	TestCode:	CN_TS	Units:	mg/Kg	Prep Date:	12/15/2011	Run ID:	LACHAT_111216A
Client ID:	ZZZZZ	Batch ID:	60369	TestNo:	SW9012A			Analysis Date:	12/16/2011	SeqNo:	2072475
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Cyanide 10.39 0.25 10 0 104 90 110 0 0

Sample ID	11120405-003BMS	SampType:	MS	TestCode:	CN_TS	Units:	mg/Kg-dry	Prep Date:	12/15/2011	Run ID:	LACHAT_111216A
Client ID:	ZZZZZ	Batch ID:	60369	TestNo:	SW9012A			Analysis Date:	12/16/2011	SeqNo:	2072477
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Cyanide 3.934 0.35 14.04 4.255 -2.29 75 125 0 0 S

Sample ID	11120405-003BMSD	SampType:	MSD	TestCode:	CN_TS	Units:	mg/Kg-dry	Prep Date:	12/15/2011	Run ID:	LACHAT_111216A
Client ID:	ZZZZZ	Batch ID:	60369	TestNo:	SW9012A			Analysis Date:	12/16/2011	SeqNo:	2072478
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Cyanide 4.751 0.35 14.04 4.255 3.53 75 125 3.934 18.8 20 S

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range
* - Non Accredited Parameter H/HT - Holding Time Exceeded

Prep Start Date: **12/14/2011 12:00:00**

 Prep End Date: **12/14/2011 1:45:00**

Prep Factor Units:

 Prep Batch **60370**

 Prep Code: **TCNPREP_W**

 Technician: **YZ**

mL / mL

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
TCNMBW1 121411			50	0	0	50	1.000	12/14/2011	12/14/2011
TCNLCSW1 121411			50	0	0	50	1.000	12/14/2011	12/14/2011
11120395-001A	Liquid		1	0	0	50	50.000	12/14/2011	12/14/2011
11120395-002A	Liquid		1	0	0	50	50.000	12/14/2011	12/14/2011
11120395-003A	Liquid		1	0	0	50	50.000	12/14/2011	12/14/2011
11120395-005A	Liquid		1	0	0	50	50.000	12/14/2011	12/14/2011
11120395-006A	Liquid		1	0	0	50	50.000	12/14/2011	12/14/2011
11120395-011A	Liquid		1	0	0	50	50.000	12/14/2011	12/14/2011
11120395-012A	Liquid		1	0	0	50	50.000	12/14/2011	12/14/2011
11120406-003D	Water		50	0	0	50	1.000	12/14/2011	12/14/2011
11120406-003DMS	Water		50	0	0	50	1.000	12/14/2011	12/14/2011
11120406-003DMSD	Water		50	0	0	50	1.000	12/14/2011	12/14/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60370

Sample ID	TCNMBW1 121411	SampType: MBLK	TestCode: CN_TW	Units: mg/L	Prep Date: 12/14/2011	Run ID: LACHAT_111216A					
Client ID: ZZZZZ	Batch ID: 60370	TestNo: SW9012A	Analysis Date: 12/16/2011	SeqNo: 2072357							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide	ND	0.0050												
---------	----	--------	--	--	--	--	--	--	--	--	--	--	--	--

Sample ID	TCNLCSW1 121411	SampType:	LCS	TestCode:	CN_TW	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	LACHAT_111216A		
Client ID:	ZZZZZ	Batch ID:	60370	TestNo:	SW9012A			Analysis Date:	12/16/2011	SeqNo:	2072358		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide	0.1891	0.0050	0.2	0	94.5	90	110	0	0					
---------	--------	--------	-----	---	------	----	-----	---	---	--	--	--	--	--

Sample ID	11120406-003DMS	SampType:	MS	TestCode:	CN_TW	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	LACHAT_111216A		
Client ID:	ZZZZZ	Batch ID:	60370	TestNo:	SW9012A			Analysis Date:	12/16/2011	SeqNo:	2072360		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide	0.1755	0.0050	0.2	0	87.7	75	125	0	0					
---------	--------	--------	-----	---	------	----	-----	---	---	--	--	--	--	--

Sample ID	11120406-003DMSD	SampType:	MSD	TestCode:	CN_TW	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	LACHAT_111216A		
Client ID:	ZZZZZ	Batch ID:	60370	TestNo:	SW9012A			Analysis Date:	12/16/2011	SeqNo:	2072361		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide	0.1751	0.0050	0.2	0	87.6	75	125	0.1755	0.194	20				
---------	--------	--------	-----	---	------	----	-----	--------	-------	----	--	--	--	--

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: **12/21/2011 12:00:00**

 Prep End Date: **12/21/2011 1:45:00**

Prep Factor Units:

mL / mL

 Prep Batch **60444** Prep Code: **TCNPREP_W** Technician: **YZ**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
TCNMBW1 122111			50	0	0	50	1.000	12/21/2011	12/21/2011
TCNLCSW1 122111			50	0	0	50	1.000	12/21/2011	12/21/2011
TCNLCSDW1 122111			50	0	0	50	1.000	12/21/2011	12/21/2011
11120395-011A	Liquid		1	0	0	50	50.000	12/21/2011	12/21/2011
11120395-012A	Liquid		1	0	0	50	50.000	12/21/2011	12/21/2011
11120395-011ADI1	Liquid		1	0	0	50	50.000	12/21/2011	12/21/2011
11120395-011ADI2	Liquid		1	0	0	50	50.000	12/21/2011	12/21/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60444

Sample ID	TCNMBW1 122111	SampType: MBLK	TestCode: CN_TW	Units: mg/L	Prep Date: 12/21/2011	Run ID: LACHAT_111221A					
Client ID: ZZZZZ	Batch ID: 60444	TestNo: SW9012A	Analysis Date: 12/21/2011	SeqNo: 2075587							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide ND 0.0050

Sample ID	TCNLCSW1 122111	SampType:	LCS	TestCode:	CN_TW	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	LACHAT_111221A		
Client ID:	ZZZZZ	Batch ID:	60444	TestNo:	SW9012A			Analysis Date:	12/21/2011	SeqNo:	2075588		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide 0.2093 0.0050 0.2 0 105 90 110 0 0

Sample ID	TCNLCSDW1 12211	SampType:	LCSD	TestCode:	CN_TW	Units:	mg/L	Prep Date:	12/21/2011	Run ID:	LACHAT_111221A		
Client ID:	ZZZZZ	Batch ID:	60444	TestNo:	SW9012A			Analysis Date:	12/21/2011	SeqNo:	2075589		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cyanide 0.2012 0.0050 0.2 0 101 90 110 0.2093 3.94 20

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

Prep Start Date: **12/14/2011 4:00:00**

 Prep End Date: **12/15/2011 4:30:00**

Prep Factor Units:

 Prep Batch **60344**

 Prep Code: **RCNPRP_S**

 Technician: **YZ**
mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
RCNMBS1 121411			1	0	0	50	50.000	12/14/2011	12/14/2011
RCNLCSS1 121411			1	0	0	50	50.000	12/14/2011	12/14/2011
RCNLCSDS1 121411			1	0	0	50	50.000	12/14/2011	12/14/2011
11120395-013A	Solid		0.2	0	0	50	250.000	12/14/2011	12/14/2011
11120395-015A	Solid		0.2	0	0	50	250.000	12/14/2011	12/14/2011
11120434-001A	Soil		1	0	0	50	50.000	12/15/2011	12/15/2011
11120434-002A	Soil		1	0	0	50	50.000	12/15/2011	12/15/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60344

Sample ID	RCNMBS1 121411	SampType:	MBLK	TestCode:	CN_SRXT	Units:	mg/Kg	Prep Date:	12/14/2011	Run ID:	LACHAT_111215A
Client ID:	ZZZZZ	Batch ID:	60344	TestNo:	SW7.3.3.2			Analysis Date:	12/15/2011	SeqNo:	2071572
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Reactive Cyanide	ND	1.0									
------------------	----	-----	--	--	--	--	--	--	--	--	--

Sample ID	RCNLCSS1 121411	SampType:	LCS	TestCode:	CN_SRXT	Units:	mg/Kg	Prep Date:	12/14/2011	Run ID:	LACHAT_111215A
Client ID:	ZZZZZ	Batch ID:	60344	TestNo:	SW7.3.3.2			Analysis Date:	12/15/2011	SeqNo:	2071573
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Reactive Cyanide	9.114	1.0	10	0	91.1	50	150	0	0		
------------------	-------	-----	----	---	------	----	-----	---	---	--	--

Sample ID	RCNLCSDS1 12141	SampType:	LCSD	TestCode:	CN_SRXT	Units:	mg/Kg	Prep Date:	12/14/2011	Run ID:	LACHAT_111215A
Client ID:	ZZZZZ	Batch ID:	60344	TestNo:	SW7.3.3.2			Analysis Date:	12/15/2011	SeqNo:	2071574
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Reactive Cyanide	8.031	1.0	10	0	80.3	50	150	9.114	12.6	30	
------------------	-------	-----	----	---	------	----	-----	-------	------	----	--

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

Prep Start Date: **12/14/2011 4:00:00**

 Prep End Date: **12/14/2011 5:00:00**

Prep Factor Units:

 Prep Batch **60345**

 Prep Code: **RCNPRP_W**

 Technician: **YZ**

mL / mL

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
RCNMBW1 121411			10	0	0	50	5.000	12/14/2011	12/14/2011
RCNLCSW1 121411			10	0	0	50	5.000	12/14/2011	12/14/2011
RCNLCSDW1 121411			10	0	0	50	5.000	12/14/2011	12/14/2011
11120395-001A	Liquid		0.5	0	0	50	100.000	12/14/2011	12/14/2011
11120395-002A	Liquid		0.5	0	0	50	100.000	12/14/2011	12/14/2011
11120395-003A	Liquid		0.5	0	0	50	100.000	12/14/2011	12/14/2011
11120395-005A	Liquid		0.5	0	0	50	100.000	12/14/2011	12/14/2011
11120395-006A	Liquid		0.5	0	0	50	100.000	12/14/2011	12/14/2011
11120395-011A	Liquid		0.5	0	0	50	100.000	12/14/2011	12/14/2011
11120395-012A	Liquid		0.5	0	0	50	100.000	12/14/2011	12/14/2011

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: 60345

Sample ID	RCNMBW1 121411	SampType:	MBLK	TestCode:	CN_WRXT	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	LACHAT_111215A		
Client ID:	ZZZZZ	Batch ID:	60345	TestNo:	SW7.3.3.2			Analysis Date:	12/15/2011	SeqNo:	2071577		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Reactive Cyanide ND 0.050

Sample ID	RCNLCSW1 121411	SampType:	LCS	TestCode:	CN_WRXT	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	LACHAT_111215A		
Client ID:	ZZZZZ	Batch ID:	60345	TestNo:	SW7.3.3.2			Analysis Date:	12/15/2011	SeqNo:	2071578		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Reactive Cyanide 0.9143 0.050 1 0 91.4 50 150 0 0

Sample ID	RCNLCSDW1 12141	SampType:	LCSD	TestCode:	CN_WRXT	Units:	mg/L	Prep Date:	12/14/2011	Run ID:	LACHAT_111215A		
Client ID:	ZZZZZ	Batch ID:	60345	TestNo:	SW7.3.3.2			Analysis Date:	12/15/2011	SeqNo:	2071579		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Reactive Cyanide 0.8001 0.050 1 0 80 50 150 0.9143 13.3 30

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77095

Sample ID	CR6MBW1 121311	SampType:	MBLK	TestCode:	Cr6_W	Units:	mg/L	Prep Date:		Run ID:	LACHAT_111213C		
Client ID:	ZZZZZ	Batch ID:	R77095	TestNo:	SW7196A			Analysis Date:	12/13/2011	SeqNo:	2070286		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent	0.003258	0.010												J
----------------------	----------	-------	--	--	--	--	--	--	--	--	--	--	--	---

Sample ID	CR6LCSW1 121311	SampType:	LCS	TestCode:	Cr6_W	Units:	mg/L	Prep Date:		Run ID:	LACHAT_111213C		
Client ID:	ZZZZZ	Batch ID:	R77095	TestNo:	SW7196A			Analysis Date:	12/13/2011	SeqNo:	2070287		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent	0.2094	0.010	0.2	0.003258	103	85	115	0	0					
----------------------	--------	-------	-----	----------	-----	----	-----	---	---	--	--	--	--	--

Sample ID	11120395-006AMS	SampType:	MS	TestCode:	CR6_W	Units:	mg/L	Prep Date:		Run ID:	LACHAT_111213C		
Client ID:	BMF-WL06-121211	Batch ID:	R77095	TestNo:	SW7196A			Analysis Date:	12/13/2011	SeqNo:	2070289		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent	0.0103	0.010	0.2	0.00928	0.508	85	115	0	0					SH
----------------------	--------	-------	-----	---------	-------	----	-----	---	---	--	--	--	--	----

Sample ID	11120395-006AMSD	SampType:	MSD	TestCode:	CR6_W	Units:	mg/L	Prep Date:		Run ID:	LACHAT_111213C		
Client ID:	BMF-WL06-121211	Batch ID:	R77095	TestNo:	SW7196A			Analysis Date:	12/13/2011	SeqNo:	2070290		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent	0.01028	0.010	0.2	0.00928	0.5	85	115	0.0103	0.146	20	SH			
----------------------	---------	-------	-----	---------	-----	----	-----	--------	-------	----	----	--	--	--

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77090

Sample ID	11120175-001A DUP	SampType:	DUP	TestCode:	PH_S_10	Units:	pH Units	Prep Date:	12/13/2011	Run ID:	PH_111213A		
Client ID:	ZZZZZ	Batch ID:	R77090	TestNo:	SW9045C			Analysis Date:	12/13/2011	SeqNo:	2070252		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		5.24		0	0	0	0	0	0	5.25	0.191	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77092

Sample ID	11120395-004A DUP	SampType:	DUP	TestCode:	PH_W	Units:	pH units	Prep Date:	12/13/2011	Run ID:	PH_111213C	
Client ID:	BMF-WL04-121211	Batch ID:	R77092	TestNo:	E150.1			Analysis Date:	12/13/2011	SeqNo:	2070273	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		ND	0	0	0	0	0	0	0	0	10	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Weston Solutions
Work Order: 11120395
Project: Baycote Metal Finishing

ANALYTICAL QC SUMMARY REPORT

BatchID: R77101

Sample ID	PMBLK3 12/13/2011	SampType: MBLK	TestCode: PMOIST	Units: wt%	Prep Date: 12/13/2011	Run ID: BALANCE_111213B					
Client ID: ZZZZZ	Batch ID: R77101	TestNo: D2974	Analysis Date: 12/14/2011	SeqNo: 2070517							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	ND	0.200											*
------------------	----	-------	--	--	--	--	--	--	--	--	--	--	---

Sample ID	PMLCS-S3 12/13/20	SampType: LCS	TestCode: PMOIST	Units: wt%	Prep Date: 12/13/2011	Run ID: BALANCE_111213B					
Client ID: ZZZZZ	Batch ID: R77101	TestNo: D2974	Analysis Date: 12/14/2011	SeqNo: 2070518							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	4.78	0.200	5	0	95.6	80	120	0	0				*
------------------	------	-------	---	---	------	----	-----	---	---	--	--	--	---

Sample ID	PMLCS-W3 12/13/20	SampType:	LCS	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/13/2011	Run ID:	BALANCE_111213B		
Client ID:	ZZZZZ	Batch ID:	R77101	TestNo:	D2974			Analysis Date:	12/14/2011	SeqNo:	2070519		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	99.82	0.200	99.8	0	100	80	120	0	0				*
------------------	-------	-------	------	---	-----	----	-----	---	---	--	--	--	---

Sample ID	11120395-013A DUP	SampType:	DUP	TestCode:	PMOIST	Units:	wt%	Prep Date:	12/14/2011	Run ID:	BALANCE_111213B		
Client ID:	BMF-WS01-121211	Batch ID:	R77101	TestNo:	D2974			Analysis Date:	12/14/2011	SeqNo:	2070528		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	0.18	0.200	0	0	0	0	0	0.22	0	20	J*
------------------	------	-------	---	---	---	---	---	------	---	----	----

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank
E - Value above quantitation range

**BAYCOTE METAL FINISHING
MISHIWAKA, INDIANA
DATA VALIDATION REPORT**

Date: January 4, 2012

Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois

Laboratory Project #: 11120395

Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)

Weston Analytical Work Order #/TDD #: 20405.016.001.1689.00/S05-0001-1111-031

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 12 waste liquid and five waste solid samples collected for the Baycote Metal Finishing Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Volatile Organic Compounds (VOC) by SW-846 Method 8260B
- Semivolatile Organic Carbons (SVOC) by SW-846 Method 8270C
- Polychlorinated Biphenyls (PCB) by SW-846 Method 8082
- Metals by SW-846 Methods 6020, 7471A, and 7470A
- Toxicity Characteristic Leaching Procedure (TCLP) Metals by SW-846 Methods 1311, 6020, and 7470A
- Hexavalent Chromium by SW-846 Method 7196A
- Total Cyanide by SW-846 Method 9012A
- Reactive Cyanide by SW-846 Method 7.3.3.2
- Ignitability by SW-846 Method 1010
- Corrosivity by Methods 150.1 and 9045C

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008 and "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs by SW-846 METHOD 8260B

1. Samples

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

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BMF-WL08-121211	11120395-008	Liquid	12/12/2011	12/16/2011
BMF-WL11-121211	11120395-011	Liquid	12/12/2011	12/15/2011
BMF-WL11-121211-D	11120395-012	Liquid	12/12/2011	12/19/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

Method blanks were analyzed with the VOC analyses. The method blanks were free of target compound contamination above the reporting limit.

Methylene chloride was detected below the reporting limit in one of the blanks but not detected in the samples; therefore, no qualifications were required.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS and LCS duplicate (LCSD) recoveries were within laboratory QC limits. The relative percent differences (RPD) between the LCS and LCSD were within QC limits.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

A site-specific MS and MSD were not analyzed. No qualifications are required.

7. **Field Duplicate Results**

Sample BMF-WL11-121211-D is a field duplicate of sample BMF-WL11-121211. All results were non-detect in both samples except for acetone. Acetone was detected at 0.31 milligrams per liter (mg/L) in the parent sample and at 0.14 mg/L in the duplicate sample. Although the RPD is somewhat high (75 percent), the difference in results is not that great. There appears to be good correlation between the field duplicate and parent sample.

8. **Overall Assessment**

The VOC data are acceptable for use based on the information received.

SVOCs BY SW-846 METHOD 8270C

1. **Samples**

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

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
BMF-WL08-121211	11120395-008	Liquid	12/12/2011	12/13/2011	12/14/2011
BMF-WL11-121211	11120395-011	Liquid	12/12/2011	12/14/2011	12/14/2011
BMF-WL11-121211-D	11120395-012	Liquid	12/12/2011	12/14/2011	12/16/2011

2. **Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. **Blanks**

Method blanks were analyzed with the SVOC analyses. The method blanks were free of target compound contamination above the reporting limits.

4. **Surrogate Results**

The surrogate recoveries were within the laboratory-established QC limits.

5. **LCS Results**

The percent recoveries for the LCS and LCSD results were within the laboratory-established QC limits except for as follows.

In the LCS associated with sample BMF-WL08-121211, 4-Chloro-3-methylphenol was detected slightly below the QC limit. The quantitation limits for 4-Chloro-3-methylphenol in sample BMF-WL08-121211 were flagged "UJ" as estimated for this discrepancy.

The RPDs between the LCS and LCSD were within QC limits.

6. **MS and MSD Results**

A site-specific MS and MSD were not analyzed. No qualifications are required.

7. **Field Duplicate Results**

Sample BMF-WL11-121211-D is a field duplicate of sample BMF-WL11-121211. All results were non-detect in both samples except that each sample had a slight detection of a different compound. Bis(2-ethylhexyl) phthalate was detected in the parent sample and diethyl phthalate was detected in the field duplicate. In general, there appears to be good correlation between the field duplicate and parent sample.

8. **Overall Assessment**

The SVOC data are acceptable for use as qualified based on the information received.

PCBs BY U.S. EPA SW-846 METHOD 8082

1. **Samples**

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

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
BMF-WL09-121211	11120395-009	Liquid	12/12/2011	12/13/2011	12/20/2011
BMF-WL11-121211	11120395-011	Liquid	12/12/2011	12/14/2011	12/15/2011
BMF-WL11-121211-D	11120395-012	Liquid	12/12/2011	12/14/2011	12/15/2011

2. **Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. **Blanks**

Method blanks were analyzed with the PCB analyses. The method blanks were free of target compound contamination above the reporting limit.

4. **Surrogates**

The surrogate recoveries were within QC limits.

5. **LCS Results**

The LCS and LCSD recoveries and RPDs were within the laboratory-established QC limits.

6. **MS and MSD Results**

A site-specific MS and MSD were not analyzed. No qualifications are required.

7. **Field Duplicate Results**

Sample BMF-WL11-121211-D is a field duplicate of sample BMF-WL11-121211. Both samples contained no detections of PCBs indicating good correlation between the field duplicate and parent sample.

8. **Overall Assessment**

The PCB data are acceptable for use based on the information received.

TOTAL METALS BY SW-846 METHODS 6020, 7471A, AND 7470A

1. Samples

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

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BMF-WL01-121211	11120395-001	Liquid	12/12/2011	12/16/2011
BMF-WL02-121211	11120395-002	Liquid	12/12/2011	12/16/2011
BMF-WL03-121211	11120395-003	Liquid	12/12/2011	12/16/2011
BMF-WL04-121211	11120395-004	Liquid	12/12/2011	12/16/2011
BMF-WL05-121211	11120395-005	Liquid	12/12/2011	12/16/2011
BMF-WL06-121211	11120395-006	Liquid	12/12/2011	12/16/2011
BMF-WL07-121211	11120395-007	Liquid	12/12/2011	12/16/2011
BMF-WL10-121211	11120395-010	Liquid	12/12/2011	12/16/2011
BMF-WL11-121211	11120395-011	Liquid	12/12/2011	12/21/2011
BMF-WL11-121211-D	11120395-012	Liquid	12/12/2011	12/21/2011
BMF-WS01-121211	11120395-013	Solid	12/12/2011	12/15/2011
BMF-WS02-121211	11120395-014	Solid	12/12/2011	12/15/2011
BMF-WS03-121211	11120395-015	Solid	12/12/2011	12/15/2011
BMF-WS04-121211	11120395-016	Solid	12/12/2011	12/15/2011
BMF-WS04-121211-D	11120395-017	Solid	12/12/2011	12/15/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 28 days from sample collection to analysis for mercury and 180 days from sample collection to analysis for all other metals.

3. Blank Results

Method blanks were analyzed with the metals analysis. The blanks were free of target analyte contamination above the reporting limits. Some metals were detected below the reporting limits in the method blanks; however, the sample concentrations were either non-detect or much higher than the blank concentrations. No qualifications were required.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits for target analytes except for as follows.

In the LCS associated with the solid sample analyses, antimony had a percent recovery of 135 percent which is outside the QC limit. Detected antimony results that are associated with this LCS were flagged “J” as estimated.

5. MS and MSD Results

STAT analyzed site-specific MS and MSDs for the metals analysis. The percent recoveries and relative percent difference (RPD) were within QC limits except for as follows.

Some of the metals could not be adequately recovered because the spike amount was much less (more than four times less) than the sample concentrations. No qualifications are required in these instances.

In the MS/MSD using sample BMF-WL07-121211, aluminum had a low percent recovery and antimony had a high percent recovery. In sample BMF-WL07-121211 (sample used for MS/MSD), the quantitation limit for aluminum was flagged “UJ” as estimated. Because antimony was not detected in this sample and the antimony was detected high in the MS/MSD, no qualifications were required for antimony.

6. Field Duplicate Results

Sample BMF-WL11-121211-D is a field duplicate of sample BMF-WL11-121211 and sample BMF-WS04-121211-D is a field duplicate of sample BMF-WS04-121211.

In sample BMF-WL11-121211-D, there were 14 metals detected and 4 of these metals exceeded a standard QC limit of 50 RPD for field duplicates. In sample BMF-WS04-121211-D, there were 17 metals detected and 6 of these metals exceeded a standard QC limit of 50 RPD for field duplicates. Therefore, there appears to be some minor heterogeneity associated with metals in these samples. No qualifications were applied.

7. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

TCLP METALS BY SW-846 METHODS 1311, 6020, AND 7470A

1. Samples

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

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
BMF-WS01-121211	11120395-013	Solid	12/12/2011	12/16/2011
BMF-WS02-121211	11120395-014	Solid	12/12/2011	12/16/2011
BMF-WS03-121211	11120395-015	Solid	12/12/2011	12/16/2011
BMF-WS04-121211	11120395-016	Solid	12/12/2011	12/16/2011
BMF-WS04-121211-D	11120395-017	Solid	12/12/2011	12/16/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 28 days from sample collection to analysis for mercury and 180 days from sample collection to analysis for all other metals.

3. Blank Results

Method blanks were analyzed with the metals analysis. The blanks were free of target analyte contamination above the reporting limits. TCLP mercury was detected in one method blank below the reporting limit. For TCLP mercury, no qualifications were required because the sample results were much greater or non-detect.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits for target analytes.

5. MS and MSD Results

STAT did not analyze site-specific MS and MSDs. No qualifications are required.

6. Field Duplicate Results

Sample BMF-WS04-121211-D is a field duplicate of sample BMF-WS04-121211. In sample BMF-WS04-121211-D, all detected TCLP metals had high RPD values greater than the standard QC limit of 50 RPD for field duplicates. Therefore, there appears to be heterogeneity associated with TCLP metals in this sample. No qualifications were applied.

7. Overall Assessment

The TCLP metals data are acceptable for use based on the information received.

GENERAL CHEMISTRY PARAMETERS (Hexavalent Chromium by 7196A, Total Cyanide by 9012A, Reactive Cyanide by 7.3.3.2, Ignitability by 1010, and Corrosivity by 150.1 and 9045C)

1. Samples

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

Samples	Lab ID	Matrix	Date Collected	Date Analyzed	Parameters Analyzed
BMF-WL01-121211	11120395-001	Liquid	12/12/2011	12/13/2011 – 12/16/2011	pH, ignitability, total and reactive cyanide
BMF-WL02-121211	11120395-002	Liquid	12/12/2011		
BMF-WL03-121211	11120395-003	Liquid	12/12/2011		
BMF-WL04-121211	11120395-004	Liquid	12/12/2011	12/13/2011 – 12/15/2011	pH, ignitability
BMF-WL05-121211	11120395-005	Liquid	12/12/2011	12/13/2011 – 12/16/2011	pH, ignitability, total and reactive cyanide
BMF-WL06-121211	11120395-006	Liquid	12/12/2011	12/13/2011 – 12/16/2011	pH, ignitability, total and reactive cyanide, hexavalent chromium
BMF-WL07-121211	11120395-007	Liquid	12/12/2011	12/13/2011 – 12/16/2011	pH, ignitability
BMF-WL08-121211	11120395-008	Liquid	12/12/2011		
BMF-WL09-121211	11120395-009	Liquid	12/12/2011	12/16/2011	ignitability
BMF-WL10-121211	11120395-010	Liquid	12/12/2011	12/13/2011 – 12/16/2011	pH, ignitability
BMF-WL11-121211	11120395-011	Liquid	12/12/2011	12/13/2011 – 12/21/2011	pH, total and reactive cyanide, hexavalent chromium
BMF-WL11-121211-D	11120395-012	Liquid	12/12/2011		
BMF-WS01-121211	11120395-013	Solid	12/12/2011	12/13/2011 – 12/16/2011	pH, ignitability, total and reactive cyanide
BMF-WS02-121211	11120395-	Solid	12/12/2011	12/13/2011 –	pH, ignitability, total cyanide

Samples	Lab ID	Matrix	Date Collected	Date Analyzed	Parameters Analyzed
	014			12/16/2011	
BMF-WS03-121211	11120395-015	Solid	12/12/2011	12/13/2011 – 12/15/2011	pH, ignitability, total and reactive cyanide
BMF-WS04-121211	11120395-016	Solid	12/12/2011	12/13/2011 – 12/15/2011	pH, ignitability, total cyanide
BMF-WS04-121211-D	11120395-017	Solid	12/12/2011	12/13/2011 – 12/16/2011	pH, ignitability, total cyanide

2. Holding Times

The holding times were acceptable for all analyses.

Note that for hexavalent chromium, the holding time limit for waters is 24 hours and for solid samples is 30 days. The three samples analyzed were waste liquids and not aqueous water samples. The samples were analyzed for hexavalent chromium more than 24 hours from sample collection but within 48 hours of sample collection. This is acceptable. The laboratory flagged hexavalent chromium results with an “H” because they were analyzed past the 24 hour limit for water samples.

3. Method Blanks

Method blanks were analyzed with the total cyanide, reactive cyanide, and hexavalent chromium analyses. The blanks were free of target analyte contamination above the reporting limits. Hexavalent chromium was detected in the method blank below the reporting limit. For hexavalent chromium, no qualifications were required because the sample results were much greater or non-detect.

4. LCS Results

The percent recoveries and RPDs were within QC limits for all LCS and LCSDs analyzed.

5. Laboratory Duplicate Results

Laboratory duplicates were analyzed with the pH analyses. The duplicate RPDs were within QC limits.

6. MS and MSD Results

A site-specific MS and MSD were analyzed with the hexavalent chromium analysis. The percent recoveries were very low. The quantitation limits for the non-detected hexavalent chromium analyses were flagged “UJ” and the detected results were flagged “J” as estimated due to apparent matrix interferences.

7. Field Duplicate Results

Sample BMF-WL11-121211-D is a field duplicate of sample BMF-WL11-121211 and sample BMF-WS04-121211-D is a field duplicate of sample BMF-WS04-121211.

For total cyanide in sample BMF-WL11-121211-D, the RPD was 52 percent which is slightly above the QC limit of 50 RPD. For hexavalent chromium, there was a detect in the field field duplicate but not in the parent sample. There appears to be some minor heterogeneity with these two compound. In general, the field duplicate results were acceptable. No qualifications were applied.

8. Overall Assessment

The hexavalent chromium, total cyanide, reactive cyanide, ignitability and pH data are acceptable for use as qualified based on the information received.

Data Validation Report
Baycote Metal Finishing Site
STAT Analysis Corporation
Laboratory Project #: 11120395

ATTACHMENT

**STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFIERS**

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-001

Client Sample ID: BMF-WL01-121211
 Collection Date: 12/12/2011 2:32:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	3		mg/L	100	12/16/2011
Arsenic	ND	2		mg/L	100	12/16/2011
Barium	ND	2		mg/L	100	12/16/2011
Beryllium	ND	1		mg/L	100	12/16/2011
Cadmium	79	2		mg/L	100	12/16/2011
Calcium	ND	100		mg/L	100	12/16/2011
Chromium	ND	2		mg/L	100	12/16/2011
Cobalt	ND	2		mg/L	100	12/16/2011
Copper	230	5		mg/L	100	12/16/2011
Iron	ND	50		mg/L	100	12/16/2011
Lead	150	1		mg/L	100	12/16/2011
Magnesium	ND	50		mg/L	100	12/16/2011
Manganese	ND	2		mg/L	100	12/16/2011
Nickel	ND	2		mg/L	100	12/16/2011
Potassium	20000	50		mg/L	100	12/16/2011
Selenium	ND	2		mg/L	100	12/16/2011
Silver	ND	2		mg/L	100	12/16/2011
Sodium	52000	150		mg/L	100	12/16/2011
Thallium	ND	1		mg/L	100	12/16/2011
Vanadium	ND	4		mg/L	100	12/16/2011
Zinc	260	10		mg/L	100	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	4.5	0.25		mg/L	1	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/14/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/14/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	10.6			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-002

Client Sample ID: BMF-WL02-121211
 Collection Date: 12/12/2011 2:34:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	100		mg/L	100	12/16/2011
Antimony	ND	15		mg/L	100	12/16/2011
Arsenic	ND	10		mg/L	100	12/16/2011
Barium	ND	10		mg/L	100	12/16/2011
Beryllium	ND	5		mg/L	100	12/16/2011
Cadmium	47000	10		mg/L	100	12/16/2011
Calcium	ND	500		mg/L	100	12/16/2011
Chromium	ND	10		mg/L	100	12/16/2011
Cobalt	ND	10		mg/L	100	12/16/2011
Copper	450	25		mg/L	100	12/16/2011
Iron	740	250		mg/L	100	12/16/2011
Lead	ND	5		mg/L	100	12/16/2011
Magnesium	ND	250		mg/L	100	12/16/2011
Manganese	ND	10		mg/L	100	12/16/2011
Nickel	27	10		mg/L	100	12/16/2011
Potassium	480	250		mg/L	100	12/16/2011
Selenium	ND	10		mg/L	100	12/16/2011
Silver	ND	10		mg/L	100	12/16/2011
Sodium	110000	750		mg/L	100	12/16/2011
Thallium	ND	5		mg/L	100	12/16/2011
Vanadium	ND	20		mg/L	100	12/16/2011
Zinc	370	50		mg/L	100	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	15000	250		mg/L	1000	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	8000	1000		mg/L	1000	12/15/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/14/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/14/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	12.1			pH units	1	12/13/2011

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-003

Client Sample ID: BMF-WL03-121211
 Collection Date: 12/12/2011 2:37:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	3		mg/L	100	12/16/2011
Arsenic	ND	2		mg/L	100	12/16/2011
Barium	ND	2		mg/L	100	12/16/2011
Beryllium	ND	1		mg/L	100	12/16/2011
Cadmium	ND	2		mg/L	100	12/16/2011
Calcium	5000	100		mg/L	100	12/16/2011
Chromium	ND	2		mg/L	100	12/16/2011
Cobalt	3.3	2		mg/L	100	12/16/2011
Copper	ND	5		mg/L	100	12/16/2011
Iron	67	50		mg/L	100	12/16/2011
Lead	ND	1		mg/L	100	12/16/2011
Magnesium	1500	50		mg/L	100	12/16/2011
Manganese	77	2		mg/L	100	12/16/2011
Nickel	350	2		mg/L	100	12/16/2011
Potassium	520	50		mg/L	100	12/16/2011
Selenium	ND	2		mg/L	100	12/16/2011
Silver	ND	2		mg/L	100	12/16/2011
Sodium	1600	150		mg/L	100	12/16/2011
Thallium	ND	1		mg/L	100	12/16/2011
Vanadium	ND	4		mg/L	100	12/16/2011
Zinc	15000	100		mg/L	1000	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	73	2.5		mg/L	10	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/14/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/14/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	2.4			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-004

Client Sample ID: BMF-WL04-121211
Collection Date: 12/12/2011 2:50:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.037	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	3		mg/L	100	12/16/2011
Arsenic	ND	2		mg/L	100	12/16/2011
Barium	2.8	2		mg/L	100	12/16/2011
Beryllium	ND	1		mg/L	100	12/16/2011
Cadmium	310	2		mg/L	100	12/16/2011
Calcium	290	100		mg/L	100	12/16/2011
Chromium	66	2		mg/L	100	12/16/2011
Cobalt	ND	2		mg/L	100	12/16/2011
Copper	690	5		mg/L	100	12/16/2011
Iron	9400	50		mg/L	100	12/16/2011
Lead	16	1		mg/L	100	12/16/2011
Magnesium	74	50		mg/L	100	12/16/2011
Manganese	94	2		mg/L	100	12/16/2011
Nickel	45	2		mg/L	100	12/16/2011
Potassium	1000	50		mg/L	100	12/16/2011
Selenium	4.8	2		mg/L	100	12/16/2011
Silver	ND	2		mg/L	100	12/16/2011
Sodium	1000	150		mg/L	100	12/16/2011
Thallium	ND	1		mg/L	100	12/16/2011
Vanadium	ND	4		mg/L	100	12/16/2011
Zinc	21000	1000		mg/L	10000	12/16/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/15/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/15/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	<2.0			pH units	1	12/13/2011

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-005

Client Sample ID: BMF-WL05-121211
 Collection Date: 12/12/2011 2:51:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.06		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	100		mg/L	100	12/16/2011
Antimony	ND	15		mg/L	100	12/16/2011
Arsenic	ND	10		mg/L	100	12/16/2011
Barium	ND	10		mg/L	100	12/16/2011
Beryllium	ND	5		mg/L	100	12/16/2011
Cadmium	ND	10		mg/L	100	12/16/2011
Calcium	ND	500		mg/L	100	12/16/2011
Chromium	ND	10		mg/L	100	12/16/2011
Cobalt	ND	10		mg/L	100	12/16/2011
Copper	130	25		mg/L	100	12/16/2011
Iron	420	250		mg/L	100	12/16/2011
Lead	ND	5		mg/L	100	12/16/2011
Magnesium	ND	250		mg/L	100	12/16/2011
Manganese	ND	10		mg/L	100	12/16/2011
Nickel	17	10		mg/L	100	12/16/2011
Potassium	960	250		mg/L	100	12/16/2011
Selenium	13	10		mg/L	100	12/16/2011
Silver	ND	10		mg/L	100	12/16/2011
Sodium	170000	750		mg/L	100	12/16/2011
Thallium	ND	5		mg/L	100	12/16/2011
Vanadium	ND	20		mg/L	100	12/16/2011
Zinc	130000	5000		mg/L	10000	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	30000	500		mg/L	2000	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	140	10		mg/L	10	12/15/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/15/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/15/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	11.2			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-006

Client Sample ID: BMF-WL06-121211
Collection Date: 12/12/2011 2:55:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	0.6		mg/L	20	12/16/2011
Arsenic	ND	0.4		mg/L	20	12/16/2011
Barium	ND	0.4		mg/L	20	12/16/2011
Beryllium	ND	0.2		mg/L	20	12/16/2011
Cadmium	ND	0.4		mg/L	20	12/16/2011
Calcium	220	100		mg/L	100	12/16/2011
Chromium	ND	0.4		mg/L	20	12/16/2011
Cobalt	ND	0.4		mg/L	20	12/16/2011
Copper	ND	1		mg/L	20	12/16/2011
Iron	ND	10		mg/L	20	12/16/2011
Lead	ND	0.2		mg/L	20	12/16/2011
Magnesium	75	50		mg/L	100	12/16/2011
Manganese	0.88	0.4		mg/L	20	12/16/2011
Nickel	ND	0.4		mg/L	20	12/16/2011
Potassium	ND	10		mg/L	20	12/16/2011
Selenium	ND	0.4		mg/L	20	12/16/2011
Silver	ND	0.4		mg/L	20	12/16/2011
Sodium	2100	150		mg/L	100	12/16/2011
Thallium	ND	0.2		mg/L	20	12/16/2011
Vanadium	ND	0.8		mg/L	20	12/16/2011
Zinc	ND	2		mg/L	20	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/14/2011 Analyst: YZ
Cyanide	ND	0.25		mg/L	1	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Hexavalent Chromium	SW7196A					Prep Date: Analyst: BPJ
Chromium, Hexavalent	ND <i>UJ</i>	0.01	H	mg/L	1	12/13/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/15/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/15/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	8.0			pH units	1	12/13/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

2J
11/4/12

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-007

Client Sample ID: BMF-WL07-121211
Collection Date: 12/12/2011 2:54:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011

Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	20		mg/L	100	12/16/2011
Antimony	ND	0.6		mg/L	20	12/16/2011
Arsenic	ND	0.4		mg/L	20	12/16/2011
Barium	1.3	0.4		mg/L	20	12/16/2011
Beryllium	ND	0.2		mg/L	20	12/16/2011
Cadmium	6.2	0.4		mg/L	20	12/16/2011
Calcium	520	100		mg/L	100	12/16/2011
Chromium	80	0.4		mg/L	20	12/16/2011
Cobalt	7.2	0.4		mg/L	20	12/16/2011
Copper	3.9	1		mg/L	20	12/16/2011
Iron	830	50		mg/L	100	12/16/2011
Lead	0.99	0.2		mg/L	20	12/16/2011
Magnesium	96	50		mg/L	100	12/16/2011
Manganese	8.8	0.4		mg/L	20	12/16/2011
Nickel	4.5	0.4		mg/L	20	12/16/2011
Potassium	78	50		mg/L	100	12/16/2011
Selenium	ND	0.4		mg/L	20	12/16/2011
Silver	0.69	0.4		mg/L	20	12/16/2011
Sodium	240	150		mg/L	100	12/16/2011
Thallium	ND	0.2		mg/L	20	12/16/2011
Vanadium	ND	4		mg/L	100	12/16/2011
Zinc	4900	100		mg/L	1000	12/16/2011

Flash Point (Closed Cup)	SW1010					Prep Date: 12/16/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/16/2011

pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	<2.0			pH units	1	12/13/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-008

Client Sample ID: BMF-WL08-121211
Collection Date: 12/12/2011 2:40:00 PM
Matrix: Organic Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3580A)				Prep Date: 12/13/2011	Analyst: DM
1,2,4-Trichlorobenzene	ND	47		mg/Kg	1	12/14/2011
1,2-Dichlorobenzene	ND	47		mg/Kg	1	12/14/2011
1,3-Dichlorobenzene	ND	47		mg/Kg	1	12/14/2011
1,4-Dichlorobenzene	ND	47		mg/Kg	1	12/14/2011
2, 2'-oxybis(1-Chloropropane)	ND	47		mg/Kg	1	12/14/2011
2,4,5-Trichlorophenol	ND	47		mg/Kg	1	12/14/2011
2,4,6-Trichlorophenol	ND	47		mg/Kg	1	12/14/2011
2,4-Dichlorophenol	ND	47		mg/Kg	1	12/14/2011
2,4-Dimethylphenol	ND	47		mg/Kg	1	12/14/2011
2,4-Dinitrophenol	ND	94		mg/Kg	1	12/14/2011
2,4-Dinitrotoluene	ND	47		mg/Kg	1	12/14/2011
2,6-Dinitrotoluene	ND	47		mg/Kg	1	12/14/2011
2-Chloronaphthalene	ND	47		mg/Kg	1	12/14/2011
2-Chlorophenol	ND	47		mg/Kg	1	12/14/2011
2-Methylnaphthalene	ND	47		mg/Kg	1	12/14/2011
2-Methylphenol	ND	47		mg/Kg	1	12/14/2011
2-Nitroaniline	ND	94		mg/Kg	1	12/14/2011
2-Nitrophenol	ND	47		mg/Kg	1	12/14/2011
3,3'-Dichlorobenzidine	ND	47		mg/Kg	1	12/14/2011
3-Nitroaniline	ND	94		mg/Kg	1	12/14/2011
4,6-Dinitro-2-methylphenol	ND	94		mg/Kg	1	12/14/2011
4-Bromophenyl phenyl ether	ND	47		mg/Kg	1	12/14/2011
4-Chloro-3-methylphenol	ND	47	UJ	mg/Kg	1	12/14/2011
4-Chloroaniline	ND	47		mg/Kg	1	12/14/2011
4-Chlorophenyl phenyl ether	ND	47		mg/Kg	1	12/14/2011
4-Methylphenol	ND	47		mg/Kg	1	12/14/2011
4-Nitroaniline	ND	94		mg/Kg	1	12/14/2011
4-Nitrophenol	ND	94		mg/Kg	1	12/14/2011
Acenaphthene	ND	47		mg/Kg	1	12/14/2011
Acenaphthylene	ND	47		mg/Kg	1	12/14/2011
Aniline	ND	47		mg/Kg	1	12/14/2011
Anthracene	ND	47		mg/Kg	1	12/14/2011
Benz(a)anthracene	ND	47		mg/Kg	1	12/14/2011
Benzidine	ND	47		mg/Kg	1	12/14/2011
Benzo(a)pyrene	ND	47		mg/Kg	1	12/14/2011
Benzo(b)fluoranthene	ND	47		mg/Kg	1	12/14/2011
Benzo(g,h,i)perylene	ND	47		mg/Kg	1	12/14/2011
Benzo(k)fluoranthene	ND	47		mg/Kg	1	12/14/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

24
11/3/12

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-008

Client Sample ID: BMF-WL08-121211
Collection Date: 12/12/2011 2:40:00 PM
Matrix: Organic Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3580A)		Prep Date: 12/13/2011		Analyst: DM	
Benzoic acid	ND	94		mg/Kg	1	12/14/2011
Benzyl alcohol	ND	47		mg/Kg	1	12/14/2011
Bis(2-chloroethoxy)methane	ND	47		mg/Kg	1	12/14/2011
Bis(2-chloroethyl)ether	ND	47		mg/Kg	1	12/14/2011
Bis(2-ethylhexyl)phthalate	ND	47		mg/Kg	1	12/14/2011
Butyl benzyl phthalate	ND	47		mg/Kg	1	12/14/2011
Carbazole	ND	47		mg/Kg	1	12/14/2011
Chrysene	ND	47		mg/Kg	1	12/14/2011
Di-n-butyl phthalate	ND	47		mg/Kg	1	12/14/2011
Di-n-octyl phthalate	ND	47		mg/Kg	1	12/14/2011
Dibenz(a,h)anthracene	ND	47		mg/Kg	1	12/14/2011
Dibenzofuran	ND	47		mg/Kg	1	12/14/2011
Diethyl phthalate	ND	47		mg/Kg	1	12/14/2011
Dimethyl phthalate	ND	47		mg/Kg	1	12/14/2011
Fluoranthene	ND	47		mg/Kg	1	12/14/2011
Fluorene	ND	47		mg/Kg	1	12/14/2011
Hexachlorobenzene	ND	47		mg/Kg	1	12/14/2011
Hexachlorobutadiene	ND	47		mg/Kg	1	12/14/2011
Hexachlorocyclopentadiene	ND	47		mg/Kg	1	12/14/2011
Hexachloroethane	ND	47		mg/Kg	1	12/14/2011
Indeno(1,2,3-cd)pyrene	ND	47		mg/Kg	1	12/14/2011
Isophorone	ND	47		mg/Kg	1	12/14/2011
N-Nitrosodi-n-propylamine	ND	47		mg/Kg	1	12/14/2011
N-Nitrosodimethylamine	ND	47		mg/Kg	1	12/14/2011
N-Nitrosodiphenylamine	ND	47		mg/Kg	1	12/14/2011
Naphthalene	ND	47		mg/Kg	1	12/14/2011
Nitrobenzene	ND	47		mg/Kg	1	12/14/2011
Pentachlorophenol	ND	94		mg/Kg	1	12/14/2011
Phenanthrene	ND	47		mg/Kg	1	12/14/2011
Phenol	ND	47		mg/Kg	1	12/14/2011
Pyrene	ND	47		mg/Kg	1	12/14/2011
Pyridine	ND	47		mg/Kg	1	12/14/2011
Volatile Organic Compounds by GC/MS						
	SW8260B		Prep Date: 12/14/2011		Analyst: ERP	
Acetone	760000	570000		mg/Kg	2500000	12/19/2011
Benzene	ND	7600		mg/Kg	500000	12/16/2011
Bromodichloromethane	ND	7600		mg/Kg	500000	12/16/2011
Bromoform	ND	7600		mg/Kg	500000	12/16/2011
Bromomethane	ND	15000		mg/Kg	500000	12/16/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-008

Client Sample ID: BMF-WL08-121211
 Collection Date: 12/12/2011 2:40:00 PM
 Matrix: Organic Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Volatile Organic Compounds by GC/MS**SW8260B**

Prep Date: 12/14/2011 Analyst: ERP

2-Butanone	ND	110000		mg/Kg	500000	12/16/2011
Carbon disulfide	ND	76000		mg/Kg	500000	12/16/2011
Carbon tetrachloride	ND	7600		mg/Kg	500000	12/16/2011
Chlorobenzene	ND	7600		mg/Kg	500000	12/16/2011
Chloroethane	ND	15000		mg/Kg	500000	12/16/2011
Chloroform	ND	7600		mg/Kg	500000	12/16/2011
Chloromethane	ND	15000		mg/Kg	500000	12/16/2011
Dibromochloromethane	ND	7600		mg/Kg	500000	12/16/2011
1,1-Dichloroethane	ND	7600		mg/Kg	500000	12/16/2011
1,2-Dichloroethane	ND	7600		mg/Kg	500000	12/16/2011
1,1-Dichloroethene	ND	7600		mg/Kg	500000	12/16/2011
cis-1,2-Dichloroethene	ND	7600		mg/Kg	500000	12/16/2011
trans-1,2-Dichloroethene	ND	7600		mg/Kg	500000	12/16/2011
1,2-Dichloropropane	ND	7600		mg/Kg	500000	12/16/2011
cis-1,3-Dichloropropene	ND	3100		mg/Kg	500000	12/16/2011
trans-1,3-Dichloropropene	ND	3100		mg/Kg	500000	12/16/2011
Ethylbenzene	ND	7600		mg/Kg	500000	12/16/2011
2-Hexanone	ND	31000		mg/Kg	500000	12/16/2011
4-Methyl-2-pentanone	ND	31000		mg/Kg	500000	12/16/2011
Methylene chloride	ND	15000		mg/Kg	500000	12/16/2011
Methyl tert-butyl ether	ND	7600		mg/Kg	500000	12/16/2011
Styrene	ND	7600		mg/Kg	500000	12/16/2011
1,1,2,2-Tetrachloroethane	ND	7600		mg/Kg	500000	12/16/2011
Tetrachloroethene	ND	7600		mg/Kg	500000	12/16/2011
Toluene	ND	7600		mg/Kg	500000	12/16/2011
1,1,1-Trichloroethane	ND	7600		mg/Kg	500000	12/16/2011
1,1,2-Trichloroethane	ND	7600		mg/Kg	500000	12/16/2011
Trichloroethene	ND	7600		mg/Kg	500000	12/16/2011
Vinyl chloride	ND	7600		mg/Kg	500000	12/16/2011
Xylenes, Total	ND	23000		mg/Kg	500000	12/16/2011

Flash Point (Closed Cup)**SW1010**

Prep Date: 12/16/2011 Analyst: RW

Flashpoint	<32		°F	1	12/16/2011
------------	-----	--	----	---	------------

pH (1:10, 25 °C)**SW9045C**

Prep Date: 12/13/2011 Analyst: RW

pH	4.7		pH Units	1	12/13/2011
----	-----	--	----------	---	------------

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-009

Client Sample ID: BMF-WL09-121211
Collection Date: 12/12/2011 2:41:00 PM
Matrix: Oil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs in Oil	SW8082 (SW3580A)					Prep Date: 12/13/2011 Analyst: GVC
Aroclor 1016	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1221	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1232	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1242	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1248	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1254	ND	0.93		mg/Kg	1	12/20/2011
Aroclor 1260	ND	0.93		mg/Kg	1	12/20/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/16/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/16/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-010

Client Sample ID: BMF-WL10-121211
Collection Date: 12/12/2011 2:59:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	SW7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.006		mg/L	1	12/16/2011
Metals by ICP/MS	SW6020 (SW3005A)					Prep Date: 12/14/2011 Analyst: JG
Aluminum	ND	1		mg/L	5	12/16/2011
Antimony	ND	0.15		mg/L	5	12/16/2011
Arsenic	ND	0.1		mg/L	5	12/16/2011
Barium	ND	0.1		mg/L	5	12/16/2011
Beryllium	ND	0.05		mg/L	5	12/16/2011
Cadmium	0.32	0.1		mg/L	5	12/16/2011
Calcium	ND	5		mg/L	5	12/16/2011
Chromium	0.28	0.1		mg/L	5	12/16/2011
Cobalt	ND	0.1		mg/L	5	12/16/2011
Copper	ND	0.25		mg/L	5	12/16/2011
Iron	17	2.5		mg/L	5	12/16/2011
Lead	ND	0.05		mg/L	5	12/16/2011
Magnesium	ND	2.5		mg/L	5	12/16/2011
Manganese	0.16	0.1		mg/L	5	12/16/2011
Nickel	0.13	0.1		mg/L	5	12/16/2011
Potassium	ND	2.5		mg/L	5	12/16/2011
Selenium	ND	0.1		mg/L	5	12/16/2011
Silver	ND	0.1		mg/L	5	12/16/2011
Sodium	8.6	7.5		mg/L	5	12/16/2011
Thallium	ND	0.05		mg/L	5	12/16/2011
Vanadium	ND	0.2		mg/L	5	12/16/2011
Zinc	6.5	0.5		mg/L	5	12/16/2011
Flash Point (Closed Cup)	SW1010					Prep Date: 12/16/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	12/16/2011
pH	E150.1					Prep Date: 12/13/2011 Analyst: MNG
pH	<2.0			pH units	1	12/13/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-011

Client Sample ID: BMF-WL11-121211
Collection Date: 12/12/2011 2:57:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3510C)			Prep Date: 12/14/2011 Analyst: GVC		
Aroclor 1016	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1221	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1232	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1242	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1248	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1254	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1260	ND	0.0005		mg/L	1	12/15/2011
Mercury						
	SW7470A			Prep Date: 12/21/2011 Analyst: LB		
Mercury	ND	0.0012		mg/L	1	12/21/2011
Metals by ICP/MS						
	SW6020 (SW3005A)			Prep Date: 12/21/2011 Analyst: JG		
Aluminum	4.1	0.4		mg/L	2	12/21/2011
Antimony	ND	0.15		mg/L	5	12/21/2011
Arsenic	ND	0.04		mg/L	2	12/21/2011
Barium	0.092	0.04		mg/L	2	12/21/2011
Beryllium	ND	0.02		mg/L	2	12/21/2011
Cadmium	0.17	0.02		mg/L	2	12/21/2011
Calcium	16	2		mg/L	2	12/21/2011
Chromium	2.8	0.04		mg/L	2	12/21/2011
Cobalt	ND	0.04		mg/L	2	12/21/2011
Copper	4.1	0.1		mg/L	2	12/21/2011
Iron	120	1		mg/L	2	12/21/2011
Lead	0.32	0.02		mg/L	2	12/21/2011
Magnesium	1.9	1		mg/L	2	12/21/2011
Manganese	0.61	0.04		mg/L	2	12/21/2011
Nickel	0.13	0.04		mg/L	2	12/21/2011
Potassium	16	1		mg/L	2	12/21/2011
Selenium	ND	0.04		mg/L	2	12/21/2011
Silver	0.14	0.04		mg/L	2	12/21/2011
Sodium	7.7	3		mg/L	2	12/21/2011
Thallium	ND	0.02		mg/L	2	12/21/2011
Vanadium	ND	0.04		mg/L	2	12/21/2011
Zinc	24	0.2		mg/L	2	12/21/2011
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3510C)			Prep Date: 12/14/2011 Analyst: DM		
Acenaphthene	ND	0.005		mg/L	1	12/14/2011
Acenaphthylene	ND	0.005		mg/L	1	12/14/2011
Aniline	ND	0.025		mg/L	1	12/14/2011
Anthracene	ND	0.005		mg/L	1	12/14/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-011

Client Sample ID: BMF-WL11-121211
 Collection Date: 12/12/2011 2:57:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3510C)		Prep Date: 12/14/2011		Analyst: DM
Benz(a)anthracene	ND	0.005		mg/L	1	12/14/2011
Benzidine	ND	0.025		mg/L	1	12/14/2011
Benzo(a)pyrene	ND	0.005		mg/L	1	12/14/2011
Benzo(b)fluoranthene	ND	0.005		mg/L	1	12/14/2011
Benzo(g,h,i)perylene	ND	0.005		mg/L	1	12/14/2011
Benzo(k)fluoranthene	ND	0.005		mg/L	1	12/14/2011
Benzoic acid	ND	0.025		mg/L	1	12/14/2011
Benzyl alcohol	ND	0.005		mg/L	1	12/14/2011
Bis(2-chloroethoxy)methane	ND	0.005		mg/L	1	12/14/2011
Bis(2-chloroethyl)ether	ND	0.005		mg/L	1	12/14/2011
Bis(2-ethylhexyl)phthalate	0.053	0.006		mg/L	1	12/14/2011
4-Bromophenyl phenyl ether	ND	0.005		mg/L	1	12/14/2011
Butyl benzyl phthalate	ND	0.005		mg/L	1	12/14/2011
Carbazole	ND	0.005		mg/L	1	12/14/2011
4-Chloroaniline	ND	0.005		mg/L	1	12/14/2011
4-Chloro-3-methylphenol	ND	0.005		mg/L	1	12/14/2011
2-Chloronaphthalene	ND	0.005		mg/L	1	12/14/2011
2-Chlorophenol	ND	0.005		mg/L	1	12/14/2011
4-Chlorophenyl phenyl ether	ND	0.005		mg/L	1	12/14/2011
Chrysene	ND	0.005		mg/L	1	12/14/2011
Dibenz(a,h)anthracene	ND	0.005		mg/L	1	12/14/2011
Dibenzofuran	ND	0.005		mg/L	1	12/14/2011
1,2-Dichlorobenzene	ND	0.005		mg/L	1	12/14/2011
1,3-Dichlorobenzene	ND	0.005		mg/L	1	12/14/2011
1,4-Dichlorobenzene	ND	0.005		mg/L	1	12/14/2011
3,3'-Dichlorobenzidine	ND	0.01		mg/L	1	12/14/2011
2,4-Dichlorophenol	ND	0.005		mg/L	1	12/14/2011
Diethyl phthalate	ND	0.005		mg/L	1	12/14/2011
2,4-Dimethylphenol	ND	0.005		mg/L	1	12/14/2011
Dimethyl phthalate	ND	0.005		mg/L	1	12/14/2011
4,6-Dinitro-2-methylphenol	ND	0.025		mg/L	1	12/14/2011
2,4-Dinitrophenol	ND	0.025		mg/L	1	12/14/2011
2,4-Dinitrotoluene	ND	0.005		mg/L	1	12/14/2011
2,6-Dinitrotoluene	ND	0.005		mg/L	1	12/14/2011
Di-n-butyl phthalate	ND	0.005		mg/L	1	12/14/2011
Di-n-octyl phthalate	ND	0.005		mg/L	1	12/14/2011
Fluoranthene	ND	0.005		mg/L	1	12/14/2011
Fluorene	ND	0.005		mg/L	1	12/14/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-011

Client Sample ID: BMF-WL11-121211
Collection Date: 12/12/2011 2:57:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3510C)			Prep Date: 12/14/2011		Analyst: DM
Hexachlorobenzene	ND	0.005		mg/L	1	12/14/2011
Hexachlorobutadiene	ND	0.005		mg/L	1	12/14/2011
Hexachlorocyclopentadiene	ND	0.005		mg/L	1	12/14/2011
Hexachloroethane	ND	0.005		mg/L	1	12/14/2011
Indeno(1,2,3-cd)pyrene	ND	0.005		mg/L	1	12/14/2011
Isophorone	ND	0.005		mg/L	1	12/14/2011
2-Methylnaphthalene	ND	0.005		mg/L	1	12/14/2011
2-Methylphenol	ND	0.005		mg/L	1	12/14/2011
4-Methylphenol	ND	0.005		mg/L	1	12/14/2011
Naphthalene	ND	0.005		mg/L	1	12/14/2011
2-Nitroaniline	ND	0.005		mg/L	1	12/14/2011
3-Nitroaniline	ND	0.025		mg/L	1	12/14/2011
4-Nitroaniline	ND	0.025		mg/L	1	12/14/2011
2-Nitrophenol	ND	0.005		mg/L	1	12/14/2011
4-Nitrophenol	ND	0.025		mg/L	1	12/14/2011
Nitrobenzene	ND	0.005		mg/L	1	12/14/2011
N-Nitrosodi-n-propylamine	ND	0.005		mg/L	1	12/14/2011
N-Nitrosodimethylamine	ND	0.005		mg/L	1	12/14/2011
N-Nitrosodiphenylamine	ND	0.005		mg/L	1	12/14/2011
2, 2'-oxybis(1-Chloropropane)	ND	0.005		mg/L	1	12/14/2011
Pentachlorophenol	ND	0.025		mg/L	1	12/14/2011
Phenanthrene	ND	0.005		mg/L	1	12/14/2011
Phenol	ND	0.005		mg/L	1	12/14/2011
Pyrene	ND	0.005		mg/L	1	12/14/2011
Pyridine	ND	0.005		mg/L	1	12/14/2011
1,2,4-Trichlorobenzene	ND	0.005		mg/L	1	12/14/2011
2,4,5-Trichlorophenol	ND	0.01		mg/L	1	12/14/2011
2,4,6-Trichlorophenol	ND	0.005		mg/L	1	12/14/2011
Volatile Organic Compounds by GC/MS						
	SW8260B (SW5030B)			Prep Date:		Analyst: ERP
Acetone	0.31	0.02		mg/L	1	12/15/2011
Benzene	ND	0.005		mg/L	1	12/15/2011
Bromodichloromethane	ND	0.005		mg/L	1	12/15/2011
Bromoform	ND	0.005		mg/L	1	12/15/2011
Bromomethane	ND	0.01		mg/L	1	12/15/2011
2-Butanone	ND	0.02		mg/L	1	12/15/2011
Carbon disulfide	ND	0.01		mg/L	1	12/15/2011
Carbon tetrachloride	ND	0.005		mg/L	1	12/15/2011
Chlorobenzene	ND	0.005		mg/L	1	12/15/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-011

Client Sample ID: BMF-WL11-121211
Collection Date: 12/12/2011 2:57:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
	SW8260B (SW5030B)			Prep Date:		Analyst: ERP
Chloroethane	ND	0.01		mg/L	1	12/15/2011
Chloroform	ND	0.005		mg/L	1	12/15/2011
Chloromethane	ND	0.01		mg/L	1	12/15/2011
Dibromochloromethane	ND	0.005		mg/L	1	12/15/2011
1,1-Dichloroethane	ND	0.005		mg/L	1	12/15/2011
1,2-Dichloroethane	ND	0.005		mg/L	1	12/15/2011
1,1-Dichloroethene	ND	0.005		mg/L	1	12/15/2011
cis-1,2-Dichloroethene	ND	0.005		mg/L	1	12/15/2011
trans-1,2-Dichloroethene	ND	0.005		mg/L	1	12/15/2011
1,2-Dichloropropane	ND	0.005		mg/L	1	12/15/2011
cis-1,3-Dichloropropene	ND	0.001		mg/L	1	12/15/2011
trans-1,3-Dichloropropene	ND	0.001		mg/L	1	12/15/2011
Ethylbenzene	ND	0.005		mg/L	1	12/15/2011
2-Hexanone	ND	0.02		mg/L	1	12/15/2011
4-Methyl-2-pentanone	ND	0.02		mg/L	1	12/15/2011
Methylene chloride	ND	0.005		mg/L	1	12/15/2011
Methyl tert-butyl ether	ND	0.005		mg/L	1	12/15/2011
Styrene	ND	0.005		mg/L	1	12/15/2011
1,1,2,2-Tetrachloroethane	ND	0.005		mg/L	1	12/15/2011
Tetrachloroethene	ND	0.005		mg/L	1	12/15/2011
Toluene	ND	0.005		mg/L	1	12/15/2011
1,1,1-Trichloroethane	ND	0.005		mg/L	1	12/15/2011
1,1,2-Trichloroethane	ND	0.005		mg/L	1	12/15/2011
Trichloroethene	ND	0.005		mg/L	1	12/15/2011
Vinyl chloride	ND	0.002		mg/L	1	12/15/2011
Xylenes, Total	ND	0.015		mg/L	1	12/15/2011
Cyanide, Total						
	SW9012A			Prep Date: 12/21/2011		Analyst: YZ
Cyanide	0.45	0.25		mg/L	1	12/21/2011
Cyanide, Reactive						
	SW7.3.3.2			Prep Date: 12/14/2011		Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Hexavalent Chromium						
	SW7196A			Prep Date:		Analyst: BPJ
Chromium, Hexavalent	ND	0.01	H	mg/L	1	12/13/2011
pH						
	E150.1			Prep Date: 12/13/2011		Analyst: MNG
pH	6.9			pH units	1	12/13/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-012

Client Sample ID: BMF-WL11-121211D
Collection Date: 12/12/2011 2:57:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs						
	SW8082 (SW3510C)				Prep Date: 12/14/2011	Analyst: GVC
Aroclor 1016	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1221	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1232	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1242	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1248	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1254	ND	0.0005		mg/L	1	12/15/2011
Aroclor 1260	ND	0.0005		mg/L	1	12/15/2011
Mercury						
	SW7470A				Prep Date: 12/21/2011	Analyst: LB
Mercury	ND	0.0012		mg/L	1	12/21/2011
Metals by ICP/MS						
	SW6020 (SW3005A)				Prep Date: 12/21/2011	Analyst: JG
Aluminum	7.4	0.4		mg/L	2	12/21/2011
Antimony	ND	0.15		mg/L	5	12/21/2011
Arsenic	ND	0.04		mg/L	2	12/21/2011
Barium	0.12	0.04		mg/L	2	12/21/2011
Beryllium	ND	0.02		mg/L	2	12/21/2011
Cadmium	0.24	0.02		mg/L	2	12/21/2011
Calcium	17	2		mg/L	2	12/21/2011
Chromium	4.2	0.04		mg/L	2	12/21/2011
Cobalt	ND	0.04		mg/L	2	12/21/2011
Copper	5.2	0.1		mg/L	2	12/21/2011
Iron	270	2.5		mg/L	5	12/21/2011
Lead	0.74	0.02		mg/L	2	12/21/2011
Magnesium	2.5	1		mg/L	2	12/21/2011
Manganese	0.95	0.04		mg/L	2	12/21/2011
Nickel	0.22	0.04		mg/L	2	12/21/2011
Potassium	16	1		mg/L	2	12/21/2011
Selenium	ND	0.04		mg/L	2	12/21/2011
Silver	0.19	0.04		mg/L	2	12/21/2011
Sodium	7.4	3		mg/L	2	12/21/2011
Thallium	ND	0.02		mg/L	2	12/21/2011
Vanadium	ND	0.04		mg/L	2	12/21/2011
Zinc	34	0.2		mg/L	2	12/21/2011
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3510C)				Prep Date: 12/14/2011	Analyst: DM
Acenaphthene	ND	0.005		mg/L	1	12/16/2011
Acenaphthylene	ND	0.005		mg/L	1	12/16/2011
Aniline	ND	0.025		mg/L	1	12/16/2011
Anthracene	ND	0.005		mg/L	1	12/16/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-012

Client Sample ID: BMF-WL11-121211D
 Collection Date: 12/12/2011 2:57:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS		SW8270C (SW3510C)		Prep Date: 12/14/2011		Analyst: DM
Benz(a)anthracene	ND	0.005		mg/L	1	12/16/2011
Benzidine	ND	0.025		mg/L	1	12/16/2011
Benzo(a)pyrene	ND	0.005		mg/L	1	12/16/2011
Benzo(b)fluoranthene	ND	0.005		mg/L	1	12/16/2011
Benzo(g,h,i)perylene	ND	0.005		mg/L	1	12/16/2011
Benzo(k)fluoranthene	ND	0.005		mg/L	1	12/16/2011
Benzoic acid	ND	0.025		mg/L	1	12/16/2011
Benzyl alcohol	ND	0.005		mg/L	1	12/16/2011
Bis(2-chloroethoxy)methane	ND	0.005		mg/L	1	12/16/2011
Bis(2-chloroethyl)ether	ND	0.005		mg/L	1	12/16/2011
Bis(2-ethylhexyl)phthalate	ND	0.006		mg/L	1	12/16/2011
4-Bromophenyl phenyl ether	ND	0.005		mg/L	1	12/16/2011
Butyl benzyl phthalate	ND	0.005		mg/L	1	12/16/2011
Carbazole	ND	0.005		mg/L	1	12/16/2011
4-Chloroaniline	ND	0.005		mg/L	1	12/16/2011
4-Chloro-3-methylphenol	ND	0.005		mg/L	1	12/16/2011
2-Chloronaphthalene	ND	0.005		mg/L	1	12/16/2011
2-Chlorophenol	ND	0.005		mg/L	1	12/16/2011
4-Chlorophenyl phenyl ether	ND	0.005		mg/L	1	12/16/2011
Chrysene	ND	0.005		mg/L	1	12/16/2011
Dibenz(a,h)anthracene	ND	0.005		mg/L	1	12/16/2011
Dibenzofuran	ND	0.005		mg/L	1	12/16/2011
1,2-Dichlorobenzene	ND	0.005		mg/L	1	12/16/2011
1,3-Dichlorobenzene	ND	0.005		mg/L	1	12/16/2011
1,4-Dichlorobenzene	ND	0.005		mg/L	1	12/16/2011
3,3'-Dichlorobenzidine	ND	0.01		mg/L	1	12/16/2011
2,4-Dichlorophenol	ND	0.005		mg/L	1	12/16/2011
Diethyl phthalate	0.085	0.005		mg/L	1	12/16/2011
2,4-Dimethylphenol	ND	0.005		mg/L	1	12/16/2011
Dimethyl phthalate	ND	0.005		mg/L	1	12/16/2011
4,6-Dinitro-2-methylphenol	ND	0.025		mg/L	1	12/16/2011
2,4-Dinitrophenol	ND	0.025		mg/L	1	12/16/2011
2,4-Dinitrotoluene	ND	0.005		mg/L	1	12/16/2011
2,6-Dinitrotoluene	ND	0.005		mg/L	1	12/16/2011
Di-n-butyl phthalate	ND	0.005		mg/L	1	12/16/2011
Di-n-octyl phthalate	ND	0.005		mg/L	1	12/16/2011
Fluoranthene	ND	0.005		mg/L	1	12/16/2011
Fluorene	ND	0.005		mg/L	1	12/16/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
 Lab Order: 11120395
 Project: Baycote Metal Finishing
 Lab ID: 11120395-012

Client Sample ID: BMF-WL11-121211D
 Collection Date: 12/12/2011 2:57:00 PM
 Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS						
	SW8270C (SW3510C)			Prep Date: 12/14/2011	Analyst: DM	
Hexachlorobenzene	ND	0.005		mg/L	1	12/16/2011
Hexachlorobutadiene	ND	0.005		mg/L	1	12/16/2011
Hexachlorocyclopentadiene	ND	0.005		mg/L	1	12/16/2011
Hexachloroethane	ND	0.005		mg/L	1	12/16/2011
Indeno(1,2,3-cd)pyrene	ND	0.005		mg/L	1	12/16/2011
Isophorone	ND	0.005		mg/L	1	12/16/2011
2-Methylnaphthalene	ND	0.005		mg/L	1	12/16/2011
2-Methylphenol	ND	0.005		mg/L	1	12/16/2011
4-Methylphenol	ND	0.005		mg/L	1	12/16/2011
Naphthalene	ND	0.005		mg/L	1	12/16/2011
2-Nitroaniline	ND	0.005		mg/L	1	12/16/2011
3-Nitroaniline	ND	0.025		mg/L	1	12/16/2011
4-Nitroaniline	ND	0.025		mg/L	1	12/16/2011
2-Nitrophenol	ND	0.005		mg/L	1	12/16/2011
4-Nitrophenol	ND	0.025		mg/L	1	12/16/2011
Nitrobenzene	ND	0.005		mg/L	1	12/16/2011
N-Nitrosodi-n-propylamine	ND	0.005		mg/L	1	12/16/2011
N-Nitrosodimethylamine	ND	0.005		mg/L	1	12/16/2011
N-Nitrosodiphenylamine	ND	0.005		mg/L	1	12/16/2011
2, 2'-oxybis(1-Chloropropane)	ND	0.005		mg/L	1	12/16/2011
Pentachlorophenol	ND	0.025		mg/L	1	12/16/2011
Phenanthrene	ND	0.005		mg/L	1	12/16/2011
Phenol	ND	0.005		mg/L	1	12/16/2011
Pyrene	ND	0.005		mg/L	1	12/16/2011
Pyridine	ND	0.005		mg/L	1	12/16/2011
1,2,4-Trichlorobenzene	ND	0.005		mg/L	1	12/16/2011
2,4,5-Trichlorophenol	ND	0.01		mg/L	1	12/16/2011
2,4,6-Trichlorophenol	ND	0.005		mg/L	1	12/16/2011
Volatile Organic Compounds by GC/MS						
	SW8260B (SW5030B)			Prep Date:	Analyst: PS	
Acetone	0.14	0.02		mg/L	1	12/19/2011
Benzene	ND	0.005		mg/L	1	12/19/2011
Bromodichloromethane	ND	0.005		mg/L	1	12/19/2011
Bromoform	ND	0.005		mg/L	1	12/19/2011
Bromomethane	ND	0.01		mg/L	1	12/19/2011
2-Butanone	ND	0.02		mg/L	1	12/19/2011
Carbon disulfide	ND	0.01		mg/L	1	12/19/2011
Carbon tetrachloride	ND	0.005		mg/L	1	12/19/2011
Chlorobenzene	ND	0.005		mg/L	1	12/19/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-012

Client Sample ID: BMF-WL11-121211D
Collection Date: 12/12/2011 2:57:00 PM
Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS						
	SW8260B (SW5030B)			Prep Date:		Analyst: PS
Chloroethane	ND	0.01		mg/L	1	12/19/2011
Chloroform	ND	0.005		mg/L	1	12/19/2011
Chloromethane	ND	0.01		mg/L	1	12/19/2011
Dibromochloromethane	ND	0.005		mg/L	1	12/19/2011
1,1-Dichloroethane	ND	0.005		mg/L	1	12/19/2011
1,2-Dichloroethane	ND	0.005		mg/L	1	12/19/2011
1,1-Dichloroethene	ND	0.005		mg/L	1	12/19/2011
cis-1,2-Dichloroethene	ND	0.005		mg/L	1	12/19/2011
trans-1,2-Dichloroethene	ND	0.005		mg/L	1	12/19/2011
1,2-Dichloropropane	ND	0.005		mg/L	1	12/19/2011
cis-1,3-Dichloropropene	ND	0.001		mg/L	1	12/19/2011
trans-1,3-Dichloropropene	ND	0.001		mg/L	1	12/19/2011
Ethylbenzene	ND	0.005		mg/L	1	12/19/2011
2-Hexanone	ND	0.02		mg/L	1	12/19/2011
4-Methyl-2-pentanone	ND	0.02		mg/L	1	12/19/2011
Methylene chloride	ND	0.005		mg/L	1	12/19/2011
Methyl tert-butyl ether	ND	0.005		mg/L	1	12/19/2011
Styrene	ND	0.005		mg/L	1	12/19/2011
1,1,2,2-Tetrachloroethane	ND	0.005		mg/L	1	12/19/2011
Tetrachloroethene	ND	0.005		mg/L	1	12/19/2011
Toluene	ND	0.005		mg/L	1	12/19/2011
1,1,1-Trichloroethane	ND	0.005		mg/L	1	12/19/2011
1,1,2-Trichloroethane	ND	0.005		mg/L	1	12/19/2011
Trichloroethene	ND	0.005		mg/L	1	12/19/2011
Vinyl chloride	ND	0.002		mg/L	1	12/19/2011
Xylenes, Total	ND	0.015		mg/L	1	12/19/2011
Cyanide, Total						
	SW9012A			Prep Date: 12/21/2011		Analyst: YZ
Cyanide	0.77	0.25		mg/L	1	12/21/2011
Cyanide, Reactive						
	SW7.3.3.2			Prep Date: 12/14/2011		Analyst: YZ
Reactive Cyanide	ND	1		mg/L	1	12/15/2011
Hexavalent Chromium						
	SW7196A			Prep Date:		Analyst: BPJ
Chromium, Hexavalent	0.022	0.01	H	mg/L	1	12/13/2011
pH						
	E150.1			Prep Date: 12/13/2011		Analyst: MNG
pH	6.8			pH units	1	12/13/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

211
1/4/12

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-013

Client Sample ID: BMF-WS01-121211
Collection Date: 12/12/2011 2:44:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.14	0.019		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/15/2011 Analyst: JG
Aluminum	6600	130		mg/Kg-dry	20	12/15/2011
Antimony	ND	13		mg/Kg-dry	20	12/15/2011
Arsenic	ND	6.4		mg/Kg-dry	20	12/15/2011
Barium	100	6.4		mg/Kg-dry	20	12/15/2011
Beryllium	ND	3.2		mg/Kg-dry	20	12/15/2011
Cadmium	1600	3.2		mg/Kg-dry	20	12/15/2011
Calcium	4000	380		mg/Kg-dry	20	12/15/2011
Chromium	460	6.4		mg/Kg-dry	20	12/15/2011
Cobalt	140	6.4		mg/Kg-dry	20	12/15/2011
Copper	150	16		mg/Kg-dry	20	12/15/2011
Iron	13000	190		mg/Kg-dry	20	12/15/2011
Lead	44	3.2		mg/Kg-dry	20	12/15/2011
Magnesium	1900	190		mg/Kg-dry	20	12/15/2011
Manganese	380	6.4		mg/Kg-dry	20	12/15/2011
Nickel	110	6.4		mg/Kg-dry	20	12/15/2011
Potassium	300	190		mg/Kg-dry	20	12/15/2011
Selenium	ND	6.4		mg/Kg-dry	20	12/15/2011
Silver	ND	6.4		mg/Kg-dry	20	12/15/2011
Sodium	390	380		mg/Kg-dry	20	12/15/2011
Thallium	ND	6.4		mg/Kg-dry	20	12/15/2011
Vanadium	40	6.4		mg/Kg-dry	20	12/15/2011
Zinc	490	32		mg/Kg-dry	20	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)					Prep Date: 12/15/2011 Analyst: JG
Arsenic	ND	0.2		mg/L	100	12/16/2011
Barium	ND	10		mg/L	100	12/16/2011
Cadmium	83	0.1		mg/L	100	12/16/2011
Chromium	ND	0.2		mg/L	100	12/16/2011
Lead	0.25	0.1		mg/L	100	12/16/2011
Selenium	ND	0.2		mg/L	100	12/16/2011
Silver	ND	0.2		mg/L	100	12/16/2011
Cyanide, Reactive	SW7.3.3.2					Prep Date: 12/14/2011 Analyst: YZ
Reactive Cyanide	ND	5		mg/Kg	1	12/15/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-013

Client Sample ID: BMF-WS01-121211
Collection Date: 12/12/2011 2:44:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	ND	1.3		mg/Kg-dry	1	12/16/2011
Flash Point (Open-Cup)	SW1010(M)					Prep Date: 12/13/2011 Analyst: RW
Flashpoint	No flash up to 212		*	°F	1	12/13/2011
pH (25 °C)	SW9045C					Prep Date: 12/14/2011 Analyst: MNG
pH	8.8			pH Units	1	12/14/2011
Percent Moisture	D2974					Prep Date: 12/14/2011 Analyst: PBG
Percent Moisture	0.2	0.2	*	wt%	1	12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-014

Client Sample ID: BMF-WS02-121211
Collection Date: 12/12/2011 2:48:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.017		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/15/2011 Analyst: JG
Aluminum	ND	570		mg/Kg-dry	100	12/15/2011
Antimony	ND	57		mg/Kg-dry	100	12/15/2011
Arsenic	ND	28		mg/Kg-dry	100	12/15/2011
Barium	ND	28		mg/Kg-dry	100	12/15/2011
Beryllium	ND	14		mg/Kg-dry	100	12/15/2011
Cadmium	ND	14		mg/Kg-dry	100	12/15/2011
Calcium	ND	1700		mg/Kg-dry	100	12/15/2011
Chromium	430000	570		mg/Kg-dry	2000	12/15/2011
Cobalt	ND	28		mg/Kg-dry	100	12/15/2011
Copper	ND	71		mg/Kg-dry	100	12/15/2011
Iron	ND	850		mg/Kg-dry	100	12/15/2011
Lead	ND	280		mg/Kg-dry	2000	12/15/2011
Magnesium	ND	850		mg/Kg-dry	100	12/15/2011
Manganese	ND	28		mg/Kg-dry	100	12/15/2011
Nickel	ND	28		mg/Kg-dry	100	12/15/2011
Potassium	ND	850		mg/Kg-dry	100	12/15/2011
Selenium	30	28		mg/Kg-dry	100	12/15/2011
Silver	ND	28		mg/Kg-dry	100	12/15/2011
Sodium	ND	1700		mg/Kg-dry	100	12/15/2011
Thallium	ND	570		mg/Kg-dry	2000	12/15/2011
Vanadium	ND	28		mg/Kg-dry	100	12/15/2011
Zinc	ND	2800		mg/Kg-dry	2000	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)					Prep Date: 12/15/2011 Analyst: JG
Arsenic	ND	50		mg/L	10000	12/16/2011
Barium	ND	2500		mg/L	10000	12/16/2011
Cadmium	ND	25		mg/L	10000	12/16/2011
Chromium	20000	50		mg/L	10000	12/16/2011
Lead	ND	25		mg/L	10000	12/16/2011
Selenium	ND	50		mg/L	10000	12/16/2011
Silver	ND	50		mg/L	10000	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	ND	1.3		mg/Kg-dry	1	12/16/2011

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-014

Client Sample ID: BMF-WS02-121211
Collection Date: 12/12/2011 2:48:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Flash Point (Open-Cup)	SW1010(M)					
Flashpoint	No flash up to 212		*	°F	1	Prep Date: 12/13/2011 Analyst: RW 12/13/2011
pH (25 °C)	SW9045C					
pH	<2.0			pH Units	1	Prep Date: 12/14/2011 Analyst: MNG 12/14/2011
Percent Moisture	D2974					
Percent Moisture	1.3	0.2	*	wt%	1	Prep Date: 12/13/2011 Analyst: PBG 12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client:	Weston Solutions	Client Sample ID:	BMF-WS03-121211			
Lab Order:	11120395	Collection Date:	12/12/2011 2:38:00 PM			
Project:	Baycote Metal Finishing	Matrix:	Solid			
Lab ID:	11120395-015					
Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A	Prep Date: 12/15/2011				Analyst: LB
Mercury	0.015	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A	Prep Date: 12/15/2011				Analyst: LB
Mercury	0.61	0.021		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)	Prep Date: 12/15/2011				Analyst: JG
Aluminum	11000	130		mg/Kg-dry	20	12/15/2011
Antimony	65 J	13		mg/Kg-dry	20	12/15/2011
Arsenic	13	6.7		mg/Kg-dry	20	12/15/2011
Barium	140	6.7		mg/Kg-dry	20	12/15/2011
Beryllium	12	3.4		mg/Kg-dry	20	12/15/2011
Cadmium	130	3.4		mg/Kg-dry	20	12/15/2011
Calcium	59000	400		mg/Kg-dry	20	12/15/2011
Chromium	43000	670		mg/Kg-dry	2000	12/15/2011
Cobalt	ND	6.7		mg/Kg-dry	20	12/15/2011
Copper	32000	1700		mg/Kg-dry	2000	12/15/2011
Iron	48000	20000		mg/Kg-dry	2000	12/15/2011
Lead	1300	3.4		mg/Kg-dry	20	12/15/2011
Magnesium	3700	200		mg/Kg-dry	20	12/15/2011
Manganese	540	6.7		mg/Kg-dry	20	12/15/2011
Nickel	160	6.7		mg/Kg-dry	20	12/15/2011
Potassium	3600	200		mg/Kg-dry	20	12/15/2011
Selenium	12	6.7		mg/Kg-dry	20	12/15/2011
Silver	37	6.7		mg/Kg-dry	20	12/15/2011
Sodium	14000	400		mg/Kg-dry	20	12/15/2011
Thallium	ND	6.7		mg/Kg-dry	20	12/15/2011
Vanadium	ND	6.7		mg/Kg-dry	20	12/15/2011
Zinc	10000	3400		mg/Kg-dry	2000	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)	Prep Date: 12/15/2011				Analyst: JG
Arsenic	ND	0.5		mg/L	100	12/16/2011
Barium	ND	25		mg/L	100	12/16/2011
Cadmium	ND	0.25		mg/L	100	12/16/2011
Chromium	420	0.5		mg/L	100	12/16/2011
Lead	ND	0.25		mg/L	100	12/16/2011
Selenium	ND	0.5		mg/L	100	12/16/2011
Silver	ND	0.5		mg/L	100	12/16/2011
Cyanide, Reactive	SW7.3.3.2	Prep Date: 12/14/2011				Analyst: YZ
Reactive Cyanide	ND	5		mg/Kg	1	12/15/2011

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

11/3/12

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-015

Client Sample ID: BMF-WS03-121211
Collection Date: 12/12/2011 2:38:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	27	1.4		mg/Kg-dry	1	12/16/2011
Flash Point (Open-Cup)	SW1010(M)					Prep Date: 12/13/2011 Analyst: RW
Flashpoint	No flash up to 212		*	°F	1	12/13/2011
pH (25 °C)	SW9045C					Prep Date: 12/14/2011 Analyst: MNG
pH	3.2			pH Units	1	12/14/2011
Percent Moisture	D2974					Prep Date: 12/13/2011 Analyst: PBG
Percent Moisture	7.8	0.2	*	wt%	1	12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-016

Client Sample ID: BMF-WS04-121211
Collection Date: 12/12/2011 2:43:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A					Prep Date: 12/15/2011 Analyst: LB
Mercury	ND	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A					Prep Date: 12/15/2011 Analyst: LB
Mercury	0.19	0.024		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)					Prep Date: 12/15/2011 Analyst: JG
Aluminum	4300	170		mg/Kg-dry	20	12/15/2011
Antimony	84 J	17		mg/Kg-dry	20	12/15/2011
Arsenic	29	8.4		mg/Kg-dry	20	12/15/2011
Barium	39	8.4		mg/Kg-dry	20	12/15/2011
Beryllium	ND	4.2		mg/Kg-dry	20	12/15/2011
Cadmium	72	4.2		mg/Kg-dry	20	12/15/2011
Calcium	6800	500		mg/Kg-dry	20	12/15/2011
Chromium	31000	840		mg/Kg-dry	2000	12/15/2011
Cobalt	ND	8.4		mg/Kg-dry	20	12/15/2011
Copper	3800	21		mg/Kg-dry	20	12/15/2011
Iron	4700	250		mg/Kg-dry	20	12/15/2011
Lead	ND	420		mg/Kg-dry	2000	12/15/2011
Magnesium	730	250		mg/Kg-dry	20	12/15/2011
Manganese	37	8.4		mg/Kg-dry	20	12/15/2011
Nickel	37	8.4		mg/Kg-dry	20	12/15/2011
Potassium	1200	250		mg/Kg-dry	20	12/15/2011
Selenium	42	8.4		mg/Kg-dry	20	12/15/2011
Silver	ND	8.4		mg/Kg-dry	20	12/15/2011
Sodium	2700	500		mg/Kg-dry	20	12/15/2011
Thallium	ND	840		mg/Kg-dry	2000	12/15/2011
Vanadium	ND	8.4		mg/Kg-dry	20	12/15/2011
Zinc	460000	4200		mg/Kg-dry	2000	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)					Prep Date: 12/15/2011 Analyst: JG
Arsenic	ND	0.5		mg/L	100	12/16/2011
Barium	ND	25		mg/L	100	12/16/2011
Cadmium	0.29	0.25		mg/L	100	12/16/2011
Chromium	300	0.5		mg/L	100	12/16/2011
Lead	ND	0.25		mg/L	100	12/16/2011
Selenium	ND	0.5		mg/L	100	12/16/2011
Silver	ND	0.5		mg/L	100	12/16/2011
Cyanide, Total	SW9012A					Prep Date: 12/15/2011 Analyst: YZ
Cyanide	170	3.4		mg/Kg-dry	2	12/16/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

28
11/3/12

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-016

Client Sample ID: BMF-WS04-121211
Collection Date: 12/12/2011 2:43:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Flash Point (Open-Cup)	SW1010(M)					
Flashpoint	No flash up to 212		*	°F	1	Prep Date: 12/13/2011 Analyst: RW 12/13/2011
pH (25 °C)	SW9045C					
pH	6.9			pH Units	1	Prep Date: 12/14/2011 Analyst: MNG 12/14/2011
Percent Moisture	D2974					
Percent Moisture	27.5	0.2	*	wt%	1	Prep Date: 12/13/2011 Analyst: PBG 12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-017

Client Sample ID: BMF-WS04-121211-D
Collection Date: 12/12/2011 2:43:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	SW1311/7470A		Prep Date: 12/15/2011 Analyst: LB			
Mercury	ND	0.0012		mg/L	1	12/16/2011
Mercury	SW7471A		Prep Date: 12/15/2011 Analyst: LB			
Mercury	0.12	0.026		mg/Kg-dry	1	12/15/2011
Metals by ICP/MS	SW6020 (SW3050B)		Prep Date: 12/15/2011 Analyst: JG			
Aluminum	1100	180		mg/Kg-dry	20	12/15/2011
Antimony	24 J	18		mg/Kg-dry	20	12/15/2011
Arsenic	15	8.8		mg/Kg-dry	20	12/15/2011
Barium	50	8.8		mg/Kg-dry	20	12/15/2011
Beryllium	ND	4.4		mg/Kg-dry	20	12/15/2011
Cadmium	59	4.4		mg/Kg-dry	20	12/15/2011
Calcium	7500	530		mg/Kg-dry	20	12/15/2011
Chromium	43000	880		mg/Kg-dry	2000	12/15/2011
Cobalt	ND	8.8		mg/Kg-dry	20	12/15/2011
Copper	1200	22		mg/Kg-dry	20	12/15/2011
Iron	6300	270		mg/Kg-dry	20	12/15/2011
Lead	ND	440		mg/Kg-dry	2000	12/15/2011
Magnesium	1100	270		mg/Kg-dry	20	12/15/2011
Manganese	38	8.8		mg/Kg-dry	20	12/15/2011
Nickel	29	8.8		mg/Kg-dry	20	12/15/2011
Potassium	1800	270		mg/Kg-dry	20	12/15/2011
Selenium	43	8.8		mg/Kg-dry	20	12/15/2011
Silver	ND	8.8		mg/Kg-dry	20	12/15/2011
Sodium	4100	530		mg/Kg-dry	20	12/15/2011
Thallium	ND	880		mg/Kg-dry	2000	12/15/2011
Vanadium	ND	8.8		mg/Kg-dry	20	12/15/2011
Zinc	470000	4400		mg/Kg-dry	2000	12/15/2011
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)		Prep Date: 12/15/2011 Analyst: JG			
Arsenic	ND	0.5		mg/L	100	12/16/2011
Barium	ND	25		mg/L	100	12/16/2011
Cadmium	0.28	0.25		mg/L	100	12/16/2011
Chromium	380	0.5		mg/L	100	12/16/2011
Lead	ND	0.25		mg/L	100	12/16/2011
Selenium	ND	0.5		mg/L	100	12/16/2011
Silver	ND	0.5		mg/L	100	12/16/2011
Cyanide, Total	SW9012A		Prep Date: 12/15/2011 Analyst: YZ			
Cyanide	170	1.8		mg/Kg-dry	1	12/16/2011

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

24
11/3/12

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 22, 2011

Date Printed: December 22, 2011

Client: Weston Solutions
Lab Order: 11120395
Project: Baycote Metal Finishing
Lab ID: 11120395-017

Client Sample ID: BMF-WS04-121211-D
Collection Date: 12/12/2011 2:43:00 PM
Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Flash Point (Open-Cup)	SW1010(M)					
Flashpoint	No flash up to 212		*	°F	1	Prep Date: 12/13/2011 Analyst: RW 12/13/2011
pH (25 °C)	SW9045C					
pH	6.9			pH Units	1	Prep Date: 12/14/2011 Analyst: MNG 12/14/2011
Percent Moisture	D2974					
Percent Moisture	29.3	0.2	*	wt%	1	Prep Date: 12/13/2011 Analyst: PBG 12/14/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded