NPDES Pretreatment Compliance Sampling Inspection Report

Weco Manufacturing
6364 Dean Parkway
Ontario, New York

NYP000912

September 10-11, 2024

Report Prepared by:

ROBERT MORRELL

Digitally signed by ROBERT MORRELL
Date: 2024.11.07 16:58:40 -05'00'

Robert Morrell, Geologist
Monitoring Operations Section

Date: _____

Report Approved by:

PHILIP COCUZZA

Digitally signed by PHILIP COCUZZA
Date: 2024.11.08 06:11:38 -05'00'

Philip Cocuzza, Supervisor
Monitoring Operations Section

Date: _____

1.0 OBJECTIVE

On September 10-11, 2024, at the request of the Water Compliance Branch, the United States Environmental Protection Agency (USEPA) conducted a National Pollutant Discharge Elimination System (NPDES) Pretreatment Compliance Sampling Inspection (CSI) at the Weco Manufacturing facility in Ontario, New York. The objective of the CSI was to gather information necessary to determine compliance with the requirements and limitations of 40 CFR Part 433 (Metal Finishing Point Source Category) and the industrial wastewater discharge permit issued by the Town of Ontario Wastewater Treatment Plant (WWTP).

2.0 KEY PARTICIPANTS

Listed below are key inspection participants and contact information, grouped by organization.

U.S. Environmental Protection Agency
Robert Morrell, Geologist, Lead Inspector
Morrell.robert@epa.gov, 732-906-6804
Thuan Tran, Physical Scientist
Tran.thuan@epa.gov, 732-321-4455

Weco Manufacturing
Craig Finley, Director of Operations
cfinley@wecomfg.com, 585-265-3000, x340
John Arquitt, Manufacturing Floor Supervisor
jarquitt@wcomfg.com, 585-265-3000, x215
Jim Winder, Screen Printer and Hazardous Waste Supervisor
jwinder@wecomfg.com, 585-265-3000

3.0 FACILITY DESCRIPTION

3.1 General Information

Weco Manufacturing is located at 6364 Dean Parkway in Ontario, New York. The facility is a contract manufacturer of metal products for the healthcare, aerospace, defense, energy, and electronics industries. Products include machined components, finished fabricated sheet metal, and assembled metal products. The company is categorized as Standard Industrial Classification (SIC) Code 3499 (Fabricated Metal Products, Not Elsewhere Classified). The plant operates 16 hours per day, 5 days per week, with two 8-hour shifts. The 50,000 square foot facility currently has 56 employees. The plant began its operations at this location in 2001.

3.2 Process Information

The raw materials come into the facility as metal sheets, rolls, rods, or bars. The raw materials are composed of stainless steel or aluminum. Custom fabrication of metal parts can include computer numeric controlled (CNC) machining, programmed laser cutting, shearing, punching, drilling, forming, welding, riveting, and deburring. The parts are then conveyed to the metal finishing shop, where there are two metal finishing lines. The iron phosphate line is used to finish stainless steel parts. The parts are dipped in a soap solution, rinse water tank, acid etch tank, two rinse water tanks, iron phosphate tank, and a neuralization tank. The chromate conversion line is used to finish aluminum parts. The parts are dipped in a soap solution tank, rinse water tank, acid etch tank, two rinse water tanks, clear and yellow chromate solution tank, clear chromate solution tank, and rinse water tank. The final rinse water tank is routed through a cation/anion system for chrome removal and is reused as rinse water.

Process water for the facility is provided by the Town of Ontario. Incoming water is treated with a water softener and then processed through an on-site reverse osmosis (RO) system. The RO water is stored in a tank and is used to fill the rinse water tanks. The spent rinse water from Rinse Tank #3 and Rinse Tank #7 flows through two iron filters before it is collected in a 2400-gallon wastewater holding tank. The process wastewater is batch-discharged daily to the Town of Ontario WWTP through a drainpipe located at the 600-gallon level of the tank. The remaining 600 gallons of wastewater is pumped to the evaporator. After evaporation, the remaining sludge is placed in containers and shipped as non-hazardous evaporator sludge to Safety Kleen.

3.3 Facility Self-Monitoring Information

Pretreatment wastewater samples are collected and analyzed daily for pH, flow, iron, and chromium. Pretreatment wastewater samples are collected every six months for local permit parameters and the parameters listed in 40 CFR Section 433.17. Samples are analyzed by Paradigm Environmental Services in Rochester, New York.

4.0 EPA SAMPLING/INSPECTION ACTIVITIES

4.1 Sampling Activities

On September 11, 2024, a batch discharge was scheduled for the 2400-gallon wastewater holding tank. The discharge started at 1008 with the level in the tank at 1600 gallons. The discharge ended at 1105 with the level in the tank at 600 gallons. The total discharge to the Town of Ontario WWTP was 1000 gallons. A composite sample of the discharge was collected by filling the sample containers manually with a 25 percent aliquot every 15 minutes. The samples were collected from a sample tap on the discharge line. The

composite sample was analyzed for 5-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), ammonia, metals (arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel, silver, and zinc), cyanide, total phenolics, and TTO non-volatile organics. Four grab samples for TTO volatile organics were also collected during the batch discharge. The four grab samples were composited in the laboratory. Grab samples for pH and total residual chlorine were collected and analyzed in the field.

All sample containers, preservation techniques, and holding times were in accordance with U.S. EPA requirements specified in 40 CFR Part 136. All samples were placed in a cooler with wet ice and transported to the U.S. EPA Region 2 Laboratory in Edison, New Jersey.

The facility representative declined the EPA offer for split samples.

5.0 ANALYTICAL RESULTS

Weco Manufacturing Pretreatment CSI – Process Discharge to POTW
September 11, 2024

Parameter	Process Discharge to POTW	Local Discharge Limit – Daily Maximum	EPA 433.17 – Daily Maximum
pH (su)	7.31	5.5 – 9.5 (range)	5.0 minimum
Flow (gpd)	1,000	2,000	--
Total Residual Chlorine (mg/l)	0.0	--	--
Cadmium (mg/l)	Not detected	0.11	0.11
Chromium (mg/l)	0.0056	1.71	2.77
Copper (mg/l)	Not detected	2.07	3.38
Lead (mg/l)	Not detected	0.43	0.69
Nickel (mg/l)	0.0242	2.38	3.98
Silver (mg/l)	Not detected	0.43	0.43
Zinc (mg/l	0.0317	1.48	2.61
Iron (mg/l)	2.11	5.0	--
Arsenic (mg/l)	Not detected	0.40	--
Mercury (mg/l)	Not detected	0.10	--
Ammonia (mg/l)	Not detected	30	--
Cyanide (mg/l)	Not detected	0.65	1.20
TTO (mg/l)	Not detected	--	2.13
Total Phenolics (mg/l)	Not detected	45	--
BOD_5 (mg/l)	2.56	250	--
TSS (mg/l)	Not detected	300	--

6.0 FINDINGS

6.1 Sampling Result Findings

Laboratory analytical results for the sampling survey indicate that all parameters did not exceed local discharge limitations in the industrial wastewater discharge permit, or the federal categorical limitations listed in 40 CFR Section 433.17.

7.0 ATTACHMENTS

Photograph #1
Laboratory Data Report
Chain of Custody / Field Data Forms

Photo #1: View of the sample location for the process discharge to the local POTW.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

October 02, 2024

Bob Morrell
Monitoring & Assessment Branch
LSASD/MAB
Edison, NJ 08837

RE: Weco Metals Pretreatment CSI - 2409009

Enclosed are the results of analyses for samples received by the laboratory on 09/11/2024. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 2409009 and contact the laboratory.

Sincerely,

John R. Bourbon
Chief, LSASD/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

SVOA Analysis:
NPDES requirements were not met in S409029-ICV1. Multiple calibrations were run in an effort to meet NPDES criteria. All data in ICV not meeting the acceptance limits were biased high and the corresponding sample 2409009-01 did not have any hits. Therefore, Qualifier "K" is not applicable and no qualifications were needed.

In addition, there were several compounds outside QC limtis in LCS/LCSD with low % recoveries and high %RPD. Based on these results, "J" and "L" qualifiers were applied accordingly to sample 2409009-01.

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

Reporting Limit(s):

The Laboratory was able to achieve the standard laboratory reporting limits, where applicable, for each analyte requested except for the following analyte(s):

NVOA GCMS

The reporting level of 5.00 ug/L was raised to 10 ug/L for the following analyte(s):
4,6-Dinitro-2-Methylphenol
for the following samples:
2409009-01
The reporting level of 5.00 ug/L was raised to 30 ug/L for the following analyte(s):
2,4-Dinitrophenol
for the following samples:
2409009-01

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
Process Discharge-Comp	2409009-01	Aqueous	09/11/2024 10:10	09/11/2024 17:50
Trip Blank	2409009-02	Aqueous	09/11/2024 09:55	09/11/2024 17:50
Process Disch.-Grab#1-4(Lab Compos	2409009-07	Aqueous	09/11/2024 00:01	09/11/2024 17:50

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
624.1 VOA EPA-NPDES	EPA 624.1 SOP C-89 Rev 3.7	NELAP	Aqueous
Ammonia [As N]	EPA 350.1 SOP C-80 Rev 2.8	NELAP	Aqueous
Biochemical Oxygen Demand	SM 5210B SOP C-21 Rev 2.8	NELAP	Aqueous
Cyanide, Total	EPA 335.4 SOP C-28 Rev 2.8	NELAP	Aqueous
E-625.1-SVOA EPA ERA	EPA 625.1 SOP C-90 Rev 3.9	NELAP	Aqueous
Mercury	EPA 245.1 SOP C-110 Rev 2.8	NELAP	Aqueous
Metals ICP TAL NPDES/DW	EPA 200.7 SOP C-109 Rev 3.7	NELAP	Aqueous
Phenolics, Total	EPA 420.4 SOP C-29 Rev 2.8	NELAP	Aqueous
Residue, Non-Filterable	SM 2540D SOP C-33 Rev 3.8	NELAP	Aqueous

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Project Number: 2409009

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Process Discharge-Comp					**Sample ID: 2409009-01**	
NVOA GCMS						
1,4-Dioxane	---	U	2.04	ug/L	B409042	
N-Nitrosodimethylamine	---	U	5.10	ug/L	B409042	
Benzaldehyde	---	UJ	5.10	ug/L	B409042	
Phenol	---	U	5.10	ug/L	B409042	
Bis(2-Chloroethyl)Ether	---	UJ	5.10	ug/L	B409042	
2-Chlorophenol	---	U	5.10	ug/L	B409042	
2-Methylphenol	---	UL	5.10	ug/L	B409042	
Bis(2-Chloroisopropyl)Ether	---	U	5.10	ug/L	B409042	
Acetophenone	---	U	5.10	ug/L	B409042	
4-Methylphenol	---	UL	5.10	ug/L	B409042	
N-Nitroso-Di-N-Propylamine	---	UJ	5.10	ug/L	B409042	
Hexachloroethane	---	UJ	5.10	ug/L	B409042	
Nitrobenzene	---	UJ	5.10	ug/L	B409042	
Isophorone	---	UJ	5.10	ug/L	B409042	
2-Nitrophenol	---	UJ	5.10	ug/L	B409042	
2,4-Dimethylphenol	---	UL	5.10	ug/L	B409042	
Bis(-2-Chloroethoxy)Methane	---	UJ	5.10	ug/L	B409042	
2,4-Dichlorophenol	---	UL	5.10	ug/L	B409042	
1,2,4-Trichlorobenzene	---	UJ	5.10	ug/L	B409042	
Hexachlorobutadiene	---	UJ	5.10	ug/L	B409042	
Naphthalene	---	UJ	5.10	ug/L	B409042	
4-Chloroaniline	---	UJ	5.10	ug/L	B409042	
Caprolactam	---	U	5.10	ug/L	B409042	
4-Chloro-3-Methylphenol	---	UJ	5.10	ug/L	B409042	
2-Methylnaphthalene	---	UJ	5.10	ug/L	B409042	
1,2,4,5-Tetrachlorobenzene	---	UJ	5.10	ug/L	B409042	
Hexachlorocyclopentadiene	---	U	5.10	ug/L	B409042	
2,4,6-Trichlorophenol	---	UJ	5.10	ug/L	B409042	
2,4,5-Trichlorophenol	---	UJ	5.10	ug/L	B409042	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Process Discharge-Comp				**Sample ID: 2409009-01**		
NVOA GCMS						
Biphenyl	---	UJ	5.10	ug/L	B409042	
2-Chloronaphthalene	---	UJ	5.10	ug/L	B409042	
2-Nitroaniline	---	UJ	5.10	ug/L	B409042	
Dimethyl Phthalate	---	UJ	5.10	ug/L	B409042	
Acenaphthylene	---	UJ	5.10	ug/L	B409042	
2,6-Dinitrotoluene	---	UJ	5.10	ug/L	B409042	
3-Nitroaniline	---	UJ	5.10	ug/L	B409042	
Acenaphthene	---	UJ	5.10	ug/L	B409042	
2,4-Dinitrophenol	---	UJ	30.6	ug/L	B409042	
4-Nitrophenol	---	U	5.10	ug/L	B409042	
Dibenzofuran	---	UJ	5.10	ug/L	B409042	
2,4-Dinitrotoluene	---	U	5.10	ug/L	B409042	
2,3,4,6-Tetrachlorophenol	---	UJ	5.10	ug/L	B409042	
Fluorene	---	UJ	5.10	ug/L	B409042	
Diethylphthalate	---	UJ	5.10	ug/L	B409042	
4-Chlorophenyl-Phenylether	---	UJ	5.10	ug/L	B409042	
4-Nitroaniline	---	UJ	5.10	ug/L	B409042	
4,6-Dinitro-2-Methylphenol	---	U	10.2	ug/L	B409042	
N-Nitrosodiphenylamine	---	UJ	5.10	ug/L	B409042	
4-Bromophenyl-Phenylether	---	UJ	5.10	ug/L	B409042	
Hexachlorobenzene	---	UJ	5.10	ug/L	B409042	
Atrazine	---	UJ	5.10	ug/L	B409042	
Pentachlorophenol	---	U	5.10	ug/L	B409042	
Phenanthrene	---	UL	5.10	ug/L	B409042	
Anthracene	---	U	5.10	ug/L	B409042	
Carbazole	---	U	5.10	ug/L	B409042	
Di-N-Butyl Phthalate	---	U	5.10	ug/L	B409042	
Fluoranthene	---	U	5.10	ug/L	B409042	
Pyrene	---	UL	5.10	ug/L	B409042	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Process Discharge-Comp				**Sample ID: 2409009-01**		
NVOA GCMS						
Butylbenzylphthalate	---	U	5.10	ug/L	B409042	
3,3'- Dichlorobenzidine	---	UJ	5.10	ug/L	B409042	
Benzo(A)Anthracene	---	U	5.10	ug/L	B409042	
Chrysene	---	U	5.10	ug/L	B409042	
Bis(2-Ethylhexyl)Phthalate	---	U	5.10	ug/L	B409042	
Di-N-Octyl Phthalate	---	U	5.10	ug/L	B409042	
Benzo(B)Fluoranthene	---	U	5.10	ug/L	B409042	
Benzo(K)Fluoranthene	---	U	5.10	ug/L	B409042	
Benzo(A)Pyrene	---	U	5.10	ug/L	B409042	
Indeno(1,2,3-Cd)Pyrene	---	UL	5.10	ug/L	B409042	
Dibenzo(A,H)Anthracene	---	U	5.10	ug/L	B409042	
Benzo(G,H,I)Perylene	---	U	5.10	ug/L	B409042	
Metals ICP						
Arsenic	---	U	8.00	ug/L	B409052	
Cadmium	---	U	3.00	ug/L	B409052	
Chromium	5.60		5.00	ug/L	B409052	
Copper	---	U	10.0	ug/L	B409052	
Iron	2110		50.0	ug/L	B409052	
Lead	---	U	8.00	ug/L	B409052	
Nickel	24.2		20.0	ug/L	B409052	
Silver	---	U	5.00	ug/L	B409052	
Zinc	31.7		20.0	ug/L	B409052	
Mercury CVAA						
Mercury	---	U	0.050	ug/L	B409051	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Process Discharge-Comp			**Sample ID: 2409009-01**			
Sanitary						
Ammonia [As N]	---	U	0.100	mg/L	B409057	
Biochemical Oxygen Demand	2.56		2.00	mg/L	B409039	09/17/2024 08:25
Cyanide, Total	---	UL	20.0	ug/L	B409050	
Phenolics, Total	---	U	20.0	ug/L	B409076	
Total Suspended Solids	---	U	10.0	mg/L	B409040	
Field ID: Trip Blank			**Sample ID: 2409009-02**			
VOA GCMS						
Chloromethane	---	U	5.00	ug/L	B409046	
Vinyl Chloride	---	U	5.00	ug/L	B409046	
Bromomethane	---	U	5.00	ug/L	B409046	
Chloroethane	---	U	5.00	ug/L	B409046	
Trichlorofluoromethane	---	U	5.00	ug/L	B409046	
1,1-Dichloroethene	---	U	5.00	ug/L	B409046	
Methylene Chloride	---	U	5.00	ug/L	B409046	
Acrylonitrile	---	U	5.00	ug/L	B409046	
trans-1,2-Dichloroethene	---	U	5.00	ug/L	B409046	
1,1-Dichloroethane	---	U	5.00	ug/L	B409046	
Chloroform	---	U	5.00	ug/L	B409046	
1,1,1-Trichloroethane	---	U	5.00	ug/L	B409046	
Carbon Tetrachloride	---	U	5.00	ug/L	B409046	
1,2-Dichloroethane	---	U	5.00	ug/L	B409046	
Benzene	---	U	5.00	ug/L	B409046	
Trichloroethene	---	U	5.00	ug/L	B409046	
1,2-Dichloropropane	---	U	5.00	ug/L	B409046	
Bromodichloromethane	---	U	5.00	ug/L	B409046	
cis-1,3-Dichloropropene	---	U	5.00	ug/L	B409046	
Toluene	---	U	5.00	ug/L	B409046	
trans-1,3-Dichloropropene	---	U	5.00	ug/L	B409046	
1,1,2-Trichloroethane	---	U	5.00	ug/L	B409046	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Trip Blank				**Sample ID: 2409009-02**		
VOA GCMS						
Tetrachloroethene	---	U	5.00	ug/L	B409046	
Dibromochloromethane	---	U	5.00	ug/L	B409046	
Chlorobenzene	---	U	5.00	ug/L	B409046	
Ethylbenzene	---	U	5.00	ug/L	B409046	
Bromoform	---	U	5.00	ug/L	B409046	
1,1,2,2-Tetrachloroethane	---	U	5.00	ug/L	B409046	
1,3-Dichlorobenzene	---	U	5.00	ug/L	B409046	
1,4-Dichlorobenzene	---	U	5.00	ug/L	B409046	
1,2-Dichlorobenzene	---	U	5.00	ug/L	B409046	
Field ID: Process Disch.-Grab#1-4(Lab Composite)				**Sample ID: 2409009-07**		
VOA GCMS						
Chloromethane	---	U	5.00	ug/L	B409046	
Vinyl Chloride	---	U	5.00	ug/L	B409046	
Bromomethane	---	U	5.00	ug/L	B409046	
Chloroethane	---	U	5.00	ug/L	B409046	
Trichlorofluoromethane	---	U	5.00	ug/L	B409046	
1,1-Dichloroethene	---	U	5.00	ug/L	B409046	
Methylene Chloride	---	U	5.00	ug/L	B409046	
Acrylonitrile	---	U	5.00	ug/L	B409046	
trans-1,2-Dichloroethene	---	U	5.00	ug/L	B409046	
1,1-Dichloroethane	---	U	5.00	ug/L	B409046	
Chloroform	---	U	5.00	ug/L	B409046	
1,1,1-Trichloroethane	---	U	5.00	ug/L	B409046	
Carbon Tetrachloride	---	U	5.00	ug/L	B409046	
1,2-Dichloroethane	---	U	5.00	ug/L	B409046	
Benzene	---	U	5.00	ug/L	B409046	
Trichloroethene	---	U	5.00	ug/L	B409046	
1,2-Dichloropropane	---	U	5.00	ug/L	B409046	
Bromodichloromethane	---	U	5.00	ug/L	B409046	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Process Disch.-Grab#1-4(Lab Composite)					**Sample ID: 2409009-07**	
VOA GCMS						
cis-1,3-Dichloropropene	---	U	5.00	ug/L	B409046	
Toluene	---	U	5.00	ug/L	B409046	
trans-1,3-Dichloropropene	---	U	5.00	ug/L	B409046	
1,1,2-Trichloroethane	---	U	5.00	ug/L	B409046	
Tetrachloroethene	---	U	5.00	ug/L	B409046	
Dibromochloromethane	---	U	5.00	ug/L	B409046	
Chlorobenzene	---	U	5.00	ug/L	B409046	
Ethylbenzene	---	U	5.00	ug/L	B409046	
Bromoform	---	U	5.00	ug/L	B409046	
1,1,2,2-Tetrachloroethane	---	U	5.00	ug/L	B409046	
1,3-Dichlorobenzene	---	U	5.00	ug/L	B409046	
1,4-Dichlorobenzene	---	U	5.00	ug/L	B409046	
1,2-Dichlorobenzene	---	U	5.00	ug/L	B409046	

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VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409046									
Blank (B409046-BLK1)									
Chloromethane	--- U	5.00	ug/L						
Vinyl Chloride	--- U	5.00	ug/L						
Bromomethane	--- U	5.00	ug/L						
Chloroethane	--- U	5.00	ug/L						
Trichlorofluoromethane	--- U	5.00	ug/L						
1,1-Dichloroethene	--- U	5.00	ug/L						
Methylene Chloride	--- U	5.00	ug/L						
Acrylonitrile	--- U	5.00	ug/L						
trans-1,2-Dichloroethene	--- U	5.00	ug/L						
1,1-Dichloroethane	--- U	5.00	ug/L						
Chloroform	--- U	5.00	ug/L						
1,1,1-Trichloroethane	--- U	5.00	ug/L						
Carbon Tetrachloride	--- U	5.00	ug/L						
1,2-Dichloroethane	--- U	5.00	ug/L						
Benzene	--- U	5.00	ug/L						
Trichloroethene	--- U	5.00	ug/L						
1,2-Dichloropropane	--- U	5.00	ug/L						
Bromodichloromethane	--- U	5.00	ug/L						
cis-1,3-Dichloropropene	--- U	5.00	ug/L						
Toluene	--- U	5.00	ug/L						
trans-1,3-Dichloropropene	--- U	5.00	ug/L						
1,1,2-Trichloroethane	--- U	5.00	ug/L						
Tetrachloroethene	--- U	5.00	ug/L						
Dibromochloromethane	--- U	5.00	ug/L						
Chlorobenzene	--- U	5.00	ug/L						
Ethylbenzene	--- U	5.00	ug/L						
Bromoform	--- U	5.00	ug/L						
1,1,2,2-Tetrachloroethane	--- U	5.00	ug/L						
1,3-Dichlorobenzene	--- U	5.00	ug/L						
1,4-Dichlorobenzene	--- U	5.00	ug/L						
1,2-Dichlorobenzene	--- U	5.00	ug/L						
Surrogate: 1,4-Difluorobenzene	*101*		ug/L	*100.0*		*101*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*96.6*		ug/L	*100.0*		*96.6*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*95.8*		ug/L	*100.0*		*95.8*	*60-140*		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409046									
LCS (B409046-BS1)									
Chloromethane	70.3	5.00	ug/L	50.00		141	19-205		
Vinyl Chloride	68.2	5.00	ug/L	50.00		136	5-195		
Bromomethane	69.1	5.00	ug/L	50.00		138	15-185		
Chloroethane	54.5	5.00	ug/L	50.00		109	40-160		
Trichlorofluoromethane	68.3	5.00	ug/L	50.00		137	50-150		
1,1-Dichloroethene	43.7	5.00	ug/L	50.00		87.4	50-150		
Methylene Chloride	45.0	5.00	ug/L	50.00		89.9	60-140		
Acrylonitrile	45.5	5.00	ug/L	50.00		91.0	60-140		
trans-1,2-Dichloroethene	47.2	5.00	ug/L	50.00		94.5	70-130		
1,1-Dichloroethane	50.0	5.00	ug/L	50.00		100	70-130		
Chloroform	53.6	5.00	ug/L	50.00		107	70-135		
1,1,1-Trichloroethane	54.9	5.00	ug/L	50.00		110	70-130		
Carbon Tetrachloride	57.2	5.00	ug/L	50.00		114	70-130		
1,2-Dichloroethane	51.0	5.00	ug/L	50.00		102	70-130		
Benzene	49.7	5.00	ug/L	50.00		99.4	65-135		
Trichloroethene	50.6	5.00	ug/L	50.00		101	65-135		
1,2-Dichloropropane	51.0	5.00	ug/L	50.00		102	35-165		
Bromodichloromethane	53.7	5.00	ug/L	50.00		107	65-135		
cis-1,3-Dichloropropene	54.6	5.00	ug/L	50.00		109	25-175		
Toluene	52.8	5.00	ug/L	50.00		106	70-130		
trans-1,3-Dichloropropene	57.3	5.00	ug/L	50.00		115	50-150		
1,1,2-Trichloroethane	53.5	5.00	ug/L	50.00		107	70-130		
Tetrachloroethene	53.8	5.00	ug/L	50.00		108	70-130		
Dibromochloromethane	57.7	5.00	ug/L	50.00		115	70-135		
Chlorobenzene	53.4	5.00	ug/L	50.00		107	65-135		
Ethylbenzene	54.6	5.00	ug/L	50.00		109	60-140		
Bromoform	54.6	5.00	ug/L	50.00		109	70-130		
1,1,2,2-Tetrachloroethane	52.5	5.00	ug/L	50.00		105	60-140		
1,3-Dichlorobenzene	54.9	5.00	ug/L	50.00		110	70-130		
1,4-Dichlorobenzene	54.1	5.00	ug/L	50.00		108	65-135		
1,2-Dichlorobenzene	55.3	5.00	ug/L	50.00		111	65-135		
Surrogate: 1,4-Difluorobenzene	*102*		ug/L	*100.0*		*102*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*102*		ug/L	*100.0*		*102*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*97.6*		ug/L	*100.0*		*97.6*	*60-140*		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409046									
LCS Dup (B409046-BSD1)									
Chloromethane	73.1	5.00	ug/L	50.00		146	19-205	3.86	20
Vinyl Chloride	74.6	5.00	ug/L	50.00		149	5-195	8.97	20
Bromomethane	75.5	5.00	ug/L	50.00		151	15-185	8.78	20
Chloroethane	61.2	5.00	ug/L	50.00		122	40-160	11.6	20
Trichlorofluoromethane	71.6	5.00	ug/L	50.00		143	50-150	4.72	20
1,1-Dichloroethene	45.8	5.00	ug/L	50.00		91.6	50-150	4.67	20
Methylene Chloride	48.2	5.00	ug/L	50.00		96.4	60-140	6.98	20
Acrylonitrile	51.0	5.00	ug/L	50.00		102	60-140	11.3	20
trans-1,2-Dichloroethene	49.6	5.00	ug/L	50.00		99.3	70-130	4.95	20
1,1-Dichloroethane	52.8	5.00	ug/L	50.00		106	70-130	5.40	20
Chloroform	56.5	5.00	ug/L	50.00		113	70-135	5.21	20
1,1,1-Trichloroethane	58.2	5.00	ug/L	50.00		116	70-130	5.75	20
Carbon Tetrachloride	60.3	5.00	ug/L	50.00		121	70-130	5.21	20
1,2-Dichloroethane	53.9	5.00	ug/L	50.00		108	70-130	5.53	20
Benzene	52.7	5.00	ug/L	50.00		105	65-135	5.78	20
Trichloroethene	53.5	5.00	ug/L	50.00		107	65-135	5.56	20
1,2-Dichloropropane	54.0	5.00	ug/L	50.00		108	35-165	5.73	20
Bromodichloromethane	56.4	5.00	ug/L	50.00		113	65-135	4.89	20
cis-1,3-Dichloropropene	57.8	5.00	ug/L	50.00		116	25-175	5.73	20
Toluene	55.7	5.00	ug/L	50.00		111	70-130	5.29	20
trans-1,3-Dichloropropene	61.2	5.00	ug/L	50.00		122	50-150	6.60	20
1,1,2-Trichloroethane	57.4	5.00	ug/L	50.00		115	70-130	6.89	20
Tetrachloroethene	55.5	5.00	ug/L	50.00		111	70-130	2.95	20
Dibromochloromethane	60.7	5.00	ug/L	50.00		121	70-135	5.19	20
Chlorobenzene	56.3	5.00	ug/L	50.00		113	65-135	5.21	20
Ethylbenzene	57.6	5.00	ug/L	50.00		115	60-140	5.47	20
Bromoform	59.1	5.00	ug/L	50.00		118	70-130	7.99	20
1,1,2,2-Tetrachloroethane	57.4	5.00	ug/L	50.00		115	60-140	9.04	20
1,3-Dichlorobenzene	57.4	5.00	ug/L	50.00		115	70-130	4.51	20
1,4-Dichlorobenzene	57.4	5.00	ug/L	50.00		115	65-135	5.94	20
1,2-Dichlorobenzene	58.3	5.00	ug/L	50.00		117	65-135	5.26	20
Surrogate: 1,4-Difluorobenzene	*102*		ug/L	*100.0*		*102*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*103*		ug/L	*100.0*		*103*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*98.8*		ug/L	*100.0*		*98.8*	*60-140*		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409046									
Matrix Spike (B409046-MS1)	**Source: 2409009-07**								
Chloromethane	39.1	5.00	ug/L	50.00	ND	78.2	19-273		
Vinyl Chloride	51.1	5.00	ug/L	50.00	ND	102	49-251		
Bromomethane	52.4	5.00	ug/L	50.00	ND	105	21-242		
Chloroethane	51.5	5.00	ug/L	50.00	ND	103	14-230		
Trichlorofluoromethane	56.8	5.00	ug/L	50.00	ND	114	17-181		
1,1-Dichloroethene	55.6	5.00	ug/L	50.00	ND	111	52-234		
Methylene Chloride	53.0	5.00	ug/L	50.00	ND	106	69-221		
Acrylonitrile	53.3	5.00	ug/L	50.00	ND	107	40-160		
trans-1,2-Dichloroethene	56.4	5.00	ug/L	50.00	ND	113	54-156		
1,1-Dichloroethane	56.4	5.00	ug/L	50.00	ND	113	59-155		
Chloroform	63.1	5.00	ug/L	50.00	ND	126	51-138		
1,1,1-Trichloroethane	63.0	5.00	ug/L	50.00	ND	126	52-162		
Carbon Tetrachloride	65.8	5.00	ug/L	50.00	ND	132	70-140		
1,2-Dichloroethane	56.7	5.00	ug/L	50.00	ND	113	49-155		
Benzene	56.5	5.00	ug/L	50.00	ND	113	37-151		
Trichloroethene	57.9	5.00	ug/L	50.00	ND	116	70-157		
1,2-Dichloropropane	55.4	5.00	ug/L	50.00	ND	111	74-210		
Bromodichloromethane	61.8	5.00	ug/L	50.00	ND	124	35-155		
cis-1,3-Dichloropropene	59.4	5.00	ug/L	50.00	ND	119	80-227		
Toluene	58.7	5.00	ug/L	50.00	ND	117	47-150		
trans-1,3-Dichloropropene	61.0	5.00	ug/L	50.00	ND	122	17-183		
1,1,2-Trichloroethane	58.2	5.00	ug/L	50.00	ND	116	52-150		
Tetrachloroethene	60.1	5.00	ug/L	50.00	ND	120	64-148		
Dibromochloromethane	62.5	5.00	ug/L	50.00	ND	125	53-149		
Chlorobenzene	58.9	5.00	ug/L	50.00	ND	118	37-160		
Ethylbenzene	59.6	5.00	ug/L	50.00	ND	119	37-162		
Bromoform	63.3	5.00	ug/L	50.00	ND	127	45-169		
1,1,2,2-Tetrachloroethane	57.2	5.00	ug/L	50.00	ND	114	46-157		
1,3-Dichlorobenzene	60.8	5.00	ug/L	50.00	ND	122	59-156		
1,4-Dichlorobenzene	60.5	5.00	ug/L	50.00	ND	121	18-190		
1,2-Dichlorobenzene	60.2	5.00	ug/L	50.00	ND	120	18-190		
Surrogate: 1,4-Difluorobenzene	*102*		ug/L	*100.0*		*102*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*102*		ug/L	*100.0*		*102*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*96.3*		ug/L	*100.0*		*96.3*	*60-140*		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409046									
Matrix Spike Dup (B409046-MSD1)	**Source: 2409009-07**								
Chloromethane	37.3	5.00	ug/L	50.00	ND	74.6	19-273	4.74	28
Vinyl Chloride	49.1	5.00	ug/L	50.00	ND	98.2	49-251	3.95	28
Bromomethane	50.9	5.00	ug/L	50.00	ND	102	21-242	2.86	28
Chloroethane	48.2	5.00	ug/L	50.00	ND	96.5	14-230	6.62	28
Trichlorofluoromethane	53.8	5.00	ug/L	50.00	ND	108	17-181	5.37	28
1,1-Dichloroethene	52.8	5.00	ug/L	50.00	ND	106	52-234	5.26	28
Methylene Chloride	50.4	5.00	ug/L	50.00	ND	101	69-221	5.14	28
Acrylonitrile	52.8	5.00	ug/L	50.00	ND	106	40-160	0.942	28
trans-1,2-Dichloroethene	53.9	5.00	ug/L	50.00	ND	108	54-156	4.48	28
1,1-Dichloroethane	53.9	5.00	ug/L	50.00	ND	108	59-155	4.64	28
Chloroform	60.4	5.00	ug/L	50.00	ND	121	51-138	4.33	28
1,1,1-Trichloroethane	59.6	5.00	ug/L	50.00	ND	119	52-162	5.71	28
Carbon Tetrachloride	62.6	5.00	ug/L	50.00	ND	125	70-140	5.06	28
1,2-Dichloroethane	54.7	5.00	ug/L	50.00	ND	109	49-155	3.61	28
Benzene	54.0	5.00	ug/L	50.00	ND	108	37-151	4.52	28
Trichloroethene	55.4	5.00	ug/L	50.00	ND	111	70-157	4.31	28
1,2-Dichloropropane	53.7	5.00	ug/L	50.00	ND	107	74-210	3.23	28
Bromodichloromethane	60.4	5.00	ug/L	50.00	ND	121	35-155	2.19	28
cis-1,3-Dichloropropene	57.6	5.00	ug/L	50.00	ND	115	80-227	3.08	28
Toluene	57.1	5.00	ug/L	50.00	ND	114	47-150	2.75	28
trans-1,3-Dichloropropene	59.2	5.00	ug/L	50.00	ND	118	17-183	3.03	28
1,1,2-Trichloroethane	55.5	5.00	ug/L	50.00	ND	111	52-150	4.74	28
Tetrachloroethene	56.8	5.00	ug/L	50.00	ND	114	64-148	5.65	28
Dibromochloromethane	59.8	5.00	ug/L	50.00	ND	120	53-149	4.40	28
Chlorobenzene	55.9	5.00	ug/L	50.00	ND	112	37-160	5.14	28
Ethylbenzene	56.9	5.00	ug/L	50.00	ND	114	37-162	4.56	28
Bromoform	64.0	5.00	ug/L	50.00	ND	128	45-169	1.07	28
1,1,2,2-Tetrachloroethane	55.4	5.00	ug/L	50.00	ND	111	46-157	3.27	28
1,3-Dichlorobenzene	58.6	5.00	ug/L	50.00	ND	117	59-156	3.58	28
1,4-Dichlorobenzene	58.2	5.00	ug/L	50.00	ND	116	18-190	3.89	28
1,2-Dichlorobenzene	58.1	5.00	ug/L	50.00	ND	116	18-190	3.42	28
Surrogate: 1,4-Difluorobenzene	*104*		ug/L	*100.0*		*104*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*104*		ug/L	*100.0*		*104*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*96.2*		ug/L	*100.0*		*96.2*	*60-140*		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
Blank (B409042-BLK2)									
1,4-Dioxane	--- U	2.00	ug/L						
N-Nitrosodimethylamine	--- U	5.00	ug/L						
Benzaldehyde	--- U	5.00	ug/L						
Phenol	--- U	5.00	ug/L						
Bis(2-Chloroethyl)Ether	--- U	5.00	ug/L						
2-Chlorophenol	--- U	5.00	ug/L						
2-Methylphenol	--- U	5.00	ug/L						
Bis(2-Chloroisopropyl)Ether	--- U	5.00	ug/L						
Acetophenone	--- U	5.00	ug/L						
4-Methylphenol	--- U	5.00	ug/L						
N-Nitroso-Di-N-Propylamine	--- U	5.00	ug/L						
Hexachloroethane	--- U	5.00	ug/L						
Nitrobenzene	--- U	5.00	ug/L						
Isophorone	--- U	5.00	ug/L						
2-Nitrophenol	--- U	5.00	ug/L						
2,4-Dimethylphenol	--- U	5.00	ug/L						
Bis(-2-Chloroethoxy)Methane	--- U	5.00	ug/L						
2,4-Dichlorophenol	--- U	5.00	ug/L						
1,2,4-Trichlorobenzene	--- U	5.00	ug/L						
Hexachlorobutadiene	--- U	5.00	ug/L						
Naphthalene	--- U	5.00	ug/L						
4-Chloroaniline	--- U	5.00	ug/L						
Caprolactam	--- U	5.00	ug/L						
4-Chloro-3-Methylphenol	--- U	5.00	ug/L						
2-Methylnaphthalene	--- U	5.00	ug/L						
1,2,4,5-Tetrachlorobenzene	--- U	5.00	ug/L						
Hexachlorocyclopentadiene	--- U	5.00	ug/L						
2,4,6-Trichlorophenol	--- U	5.00	ug/L						
2,4,5-Trichlorophenol	--- U	5.00	ug/L						
Biphenyl	--- U	5.00	ug/L						
2-Chloronaphthalene	--- U	5.00	ug/L						
2-Nitroaniline	--- U	5.00	ug/L						
Dimethyl Phthalate	--- U	5.00	ug/L						
Acenaphthylene	--- U	5.00	ug/L						
2,6-Dinitrotoluene	--- U	5.00	ug/L						

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
Blank (B409042-BLK2)									
3-Nitroaniline	--- U	5.00	ug/L						
Acenaphthene	--- U	5.00	ug/L						
2,4-Dinitrophenol	--- U	5.00	ug/L						
4-Nitrophenol	--- U	5.00	ug/L						
Dibenzofuran	--- U	5.00	ug/L						
2,4-Dinitrotoluene	--- U	5.00	ug/L						
2,3,4,6-Tetrachlorophenol	--- U	5.00	ug/L						
Fluorene	--- U	5.00	ug/L						
Diethylphthalate	--- U	5.00	ug/L						
4-Chlorophenyl-Phenylether	--- U	5.00	ug/L						
4-Nitroaniline	--- U	5.00	ug/L						
4,6-Dinitro-2-Methylphenol	--- U	5.00	ug/L						
N-Nitrosodiphenylamine	--- U	5.00	ug/L						
4-Bromophenyl-Phenylether	--- U	5.00	ug/L						
Hexachlorobenzene	--- U	5.00	ug/L						
Atrazine	--- U	5.00	ug/L						
Pentachlorophenol	--- U	5.00	ug/L						
Phenanthrene	--- U	5.00	ug/L						
Anthracene	--- U	5.00	ug/L						
Carbazole	--- U	5.00	ug/L						
Di-N-Butyl Phthalate	--- U	5.00	ug/L						
Fluoranthene	--- U	5.00	ug/L						
Pyrene	--- U	5.00	ug/L						
Butylbenzylphthalate	--- U	5.00	ug/L						
3,3'- Dichlorobenzidine	--- U	5.00	ug/L						
Benzo(A)Anthracene	--- U	5.00	ug/L						
Chrysene	--- U	5.00	ug/L						
Bis(2-Ethylhexyl)Phthalate	--- U	5.00	ug/L						
Di-N-Octyl Phthalate	--- U	5.00	ug/L						
Benzo(B)Fluoranthene	--- U	5.00	ug/L						
Benzo(K)Fluoranthene	--- U	5.00	ug/L						
Benzo(A)Pyrene	--- U	5.00	ug/L						
Indeno(1,2,3-Cd)Pyrene	--- U	5.00	ug/L						
Dibenzo(A,H)Anthracene	--- U	5.00	ug/L						
Benzo(G,H,I)Perylene	--- U	5.00	ug/L						

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
Blank (B409042-BLK2)									
Surrogate: 1,4-Dioxane-D8	*9.62*		ug/L	*50.00*		*19.2*	*20-120*		
Surrogate: 2-Fluoroaniline	*14.4*		ug/L	*50.00*		*28.8*	*30-120*		
Surrogate: Phenol-D6	*7.57*		ug/L	*50.00*		*15.1*	*20-120*		
Surrogate: Naphthalene-D8	*19.6*		ug/L	*50.00*		*39.2*	*30-120*		
Surrogate: 1-Fluoronaphthalene	*19.5*		ug/L	*50.00*		*39.0*	*30-120*		
Surrogate: 2,4-Dibromophenol	*18.0*		ug/L	*50.00*		*36.1*	*20-120*		
Surrogate: Anthracene-D10	*22.9*		ug/L	*50.00*		*45.7*	*30-120*		
Surrogate: Chrysene-D12	*23.9*		ug/L	*50.00*		*47.7*	*30-120*		
LCS (B409042-BS2)									
1,4-Dioxane	10.5	2.00	ug/L	50.00		21.0	7-106		
N-Nitrosodimethylamine	12.4	5.00	ug/L	50.00		24.8	17-127		
Benzaldehyde	28.6	5.00	ug/L	50.00		57.2	8-154		
Phenol	8.52	5.00	ug/L	50.00		17.0	5-112		
Bis(2-Chloroethyl)Ether	19.4	5.00	ug/L	50.00		38.9	12-158		
2-Chlorophenol	18.0	5.00	ug/L	50.00		36.0	23-134		
2-Methylphenol	17.1	5.00	ug/L	50.00		34.1	40-112		
Bis(2-Chloroisopropyl)Ether	19.5	5.00	ug/L	50.00		39.1	36-166		
Acetophenone	18.8	5.00	ug/L	50.00		37.5	43-121		
4-Methylphenol	13.7	5.00	ug/L	50.00		27.5	34-116		
N-Nitroso-Di-N-Propylamine	18.8	5.00	ug/L	50.00		37.6	43-230		
Hexachloroethane	15.1	5.00	ug/L	50.00		30.2	40-120		
Nitrobenzene	19.5	5.00	ug/L	50.00		38.9	35-180		
Isophorone	20.9	5.00	ug/L	50.00		41.7	21-196		
2-Nitrophenol	19.8	5.00	ug/L	50.00		39.5	29-182		
2,4-Dimethylphenol	10.5	5.00	ug/L	50.00		21.0	32-120		
Bis(-2-Chloroethoxy)Methane	20.2	5.00	ug/L	50.00		40.4	33-184		
2,4-Dichlorophenol	19.0	5.00	ug/L	50.00		38.0	39-135		
1,2,4-Trichlorobenzene	16.7	5.00	ug/L	50.00		33.5	44-142		
Hexachlorobutadiene	16.5	5.00	ug/L	50.00		32.9	24-120		
Naphthalene	19.7	5.00	ug/L	50.00		39.5	21-133		
4-Chloroaniline	18.5	5.00	ug/L	50.00		37.0	26-172		
Caprolactam	5.52	5.00	ug/L	50.00		11.0	0-143		
4-Chloro-3-Methylphenol	19.6	5.00	ug/L	50.00		39.2	22-147		
2-Methylnaphthalene	18.8	5.00	ug/L	50.00		37.7	41-126		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
LCS (B409042-BS2)									
1,2,4,5-Tetrachlorobenzene	20.1	5.00	ug/L	50.00		40.1	36-124		
Hexachlorocyclopentadiene	9.89	5.00	ug/L	50.00		19.8	15-76		
2,4,6-Trichlorophenol	20.7	5.00	ug/L	50.00		41.4	37-144		
2,4,5-Trichlorophenol	20.8	5.00	ug/L	50.00		41.5	40-129		
Biphenyl	21.0	5.00	ug/L	50.00		42.0	41-122		
2-Chloronaphthalene	21.0	5.00	ug/L	50.00		42.1	60-120		
2-Nitroaniline	21.9	5.00	ug/L	50.00		43.8	35-136		
Dimethyl Phthalate	17.7	5.00	ug/L	50.00		35.4	38-120		
Acenaphthylene	19.2	5.00	ug/L	50.00		38.4	33-145		
2,6-Dinitrotoluene	23.4	5.00	ug/L	50.00		46.8	50-158		
3-Nitroaniline	22.3	5.00	ug/L	50.00		44.7	31-141		
Acenaphthene	22.7	5.00	ug/L	50.00		45.4	47-145		
2,4-Dinitrophenol	8.87	5.00	ug/L	50.00		17.7	21-191		
4-Nitrophenol	8.63	5.00	ug/L	50.00		17.3	9-132		
Dibenzofuran	24.7	5.00	ug/L	50.00		49.3	40-131		
2,4-Dinitrotoluene	24.9	5.00	ug/L	50.00		49.8	39-139		
2,3,4,6-Tetrachlorophenol	24.3	5.00	ug/L	50.00		48.7	38-136		
Fluorene	25.8	5.00	ug/L	50.00		51.6	59-121		
Diethylphthalate	23.3	5.00	ug/L	50.00		46.6	31-114		
4-Chlorophenyl-Phenylether	24.1	5.00	ug/L	50.00		48.2	25-158		
4-Nitroaniline	23.6	5.00	ug/L	50.00		47.2	39-123		
4,6-Dinitro-2-Methylphenol	19.1	5.00	ug/L	50.00		38.1	17-181		
N-Nitrosodiphenylamine	34.2	5.00	ug/L	50.00		68.3	79-139		
4-Bromophenyl-Phenylether	24.2	5.00	ug/L	50.00		48.4	53-127		
Hexachlorobenzene	24.7	5.00	ug/L	50.00		49.4	35-152		
Atrazine	40.7	5.00	ug/L	50.00		81.4	23-152		
Pentachlorophenol	20.1	5.00	ug/L	50.00		40.3	14-176		
Phenanthrene	26.1	5.00	ug/L	50.00		52.1	54-120		
Anthracene	26.0	5.00	ug/L	50.00		52.0	27-133		
Carbazole	24.2	5.00	ug/L	50.00		48.3	38-131		
Di-N-Butyl Phthalate	27.4	5.00	ug/L	50.00		54.9	1-120		
Fluoranthene	25.2	5.00	ug/L	50.00		50.5	26-137		
Pyrene	25.6	5.00	ug/L	50.00		51.3	52-120		
Butylbenzylphthalate	23.3	5.00	ug/L	50.00		46.5	38-152		
3,3'- Dichlorobenzidine	23.0	5.00	ug/L	50.00		46.1	38-262		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
LCS (B409042-BS2)									
Benzo(A)Anthracene	25.6	5.00	ug/L	50.00		51.2	33-143		
Chrysene	25.8	5.00	ug/L	50.00		51.6	17-168		
Bis(2-Ethylhexyl)Phthalate	26.8	5.00	ug/L	50.00		53.7	8-158		
Di-N-Octyl Phthalate	25.0	5.00	ug/L	50.00		50.0	4-146		
Benzo(B)Fluoranthene	23.7	5.00	ug/L	50.00		47.4	24-159		
Benzo(K)Fluoranthene	25.3	5.00	ug/L	50.00		50.5	11-162		
Benzo(A)Pyrene	20.9	5.00	ug/L	50.00		41.8	17-163		
Indeno(1,2,3-Cd)Pyrene	20.4	5.00	ug/L	50.00		40.8	39-171		
Dibenzo(A,H)Anthracene	27.3	5.00	ug/L	50.00		54.7	33-227		
Benzo(G,H,I)Perylene	21.6	5.00	ug/L	50.00		43.2	35-219		
Surrogate: 1,4-Dioxane-D8	*9.82*		ug/L	*50.00*		*19.6*	*20-120*		
Surrogate: 2-Fluoroaniline	*18.4*		ug/L	*50.00*		*36.8*	*30-120*		
Surrogate: Phenol-D6	*8.16*		ug/L	*50.00*		*16.3*	*20-120*		
Surrogate: Naphthalene-D8	*19.9*		ug/L	*50.00*		*39.7*	*30-120*		
Surrogate: 1-Fluoronaphthalene	*19.6*		ug/L	*50.00*		*39.3*	*30-120*		
Surrogate: 2,4-Dibromophenol	*21.1*		ug/L	*50.00*		*42.1*	*20-120*		
Surrogate: Anthracene-D10	*25.4*		ug/L	*50.00*		*50.8*	*30-120*		
Surrogate: Chrysene-D12	*25.6*		ug/L	*50.00*		*51.2*	*30-120*		
LCS Dup (B409042-BSD2)									
1,4-Dioxane	8.05	2.00	ug/L	50.00		16.1	7-106	26.6	30
N-Nitrosodimethylamine	9.31	5.00	ug/L	50.00		18.6	17-127	28.4	30
Benzaldehyde	24.2	5.00	ug/L	50.00		48.4	8-154	16.7	30
Phenol	6.42	5.00	ug/L	50.00		12.8	5-112	28.1	30
Bis(2-Chloroethyl)Ether	14.1	5.00	ug/L	50.00		28.2	12-158	31.7	30
2-Chlorophenol	13.4	5.00	ug/L	50.00		26.8	23-134	29.2	30
2-Methylphenol	13.0	5.00	ug/L	50.00		25.9	40-112	27.4	30
Bis(2-Chloroisopropyl)Ether	13.8	5.00	ug/L	50.00		27.6	36-166	34.4	30
Acetophenone	13.6	5.00	ug/L	50.00		27.1	43-121	32.2	30
4-Methylphenol	10.4	5.00	ug/L	50.00		20.7	34-116	28.0	30
N-Nitroso-Di-N-Propylamine	13.5	5.00	ug/L	50.00		27.0	43-230	32.7	30
Hexachloroethane	11.0	5.00	ug/L	50.00		22.0	40-120	31.5	30
Nitrobenzene	14.2	5.00	ug/L	50.00		28.4	35-180	31.2	30
Isophorone	14.9	5.00	ug/L	50.00		29.8	21-196	33.5	30
2-Nitrophenol	14.5	5.00	ug/L	50.00		29.1	29-182	30.6	30

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
LCS Dup (B409042-BSD2)									
2,4-Dimethylphenol	9.94	5.00	ug/L	50.00		19.9	32-120	5.67	30
Bis(-2-Chloroethoxy)Methane	14.5	5.00	ug/L	50.00		28.9	33-184	33.2	30
2,4-Dichlorophenol	14.2	5.00	ug/L	50.00		28.3	39-135	29.2	30
1,2,4-Trichlorobenzene	12.1	5.00	ug/L	50.00		24.3	44-142	31.9	30
Hexachlorobutadiene	11.7	5.00	ug/L	50.00		23.4	24-120	33.9	30
Naphthalene	14.2	5.00	ug/L	50.00		28.5	21-133	32.4	30
4-Chloroaniline	10.4	5.00	ug/L	50.00		20.8	26-172	55.9	30
Caprolactam	4.49	5.00	ug/L	50.00		8.98	0-143	20.6	30
4-Chloro-3-Methylphenol	14.3	5.00	ug/L	50.00		28.6	22-147	31.1	30
2-Methylnaphthalene	13.6	5.00	ug/L	50.00		27.3	41-126	31.9	30
1,2,4,5-Tetrachlorobenzene	14.5	5.00	ug/L	50.00		28.9	36-124	32.4	30
Hexachlorocyclopentadiene	7.80	5.00	ug/L	50.00		15.6	15-76	23.6	30
2,4,6-Trichlorophenol	14.9	5.00	ug/L	50.00		29.9	37-144	32.3	30
2,4,5-Trichlorophenol	14.8	5.00	ug/L	50.00		29.6	40-129	33.7	30
Biphenyl	15.0	5.00	ug/L	50.00		29.9	41-122	33.8	30
2-Chloronaphthalene	15.0	5.00	ug/L	50.00		30.0	60-120	33.4	30
2-Nitroaniline	15.4	5.00	ug/L	50.00		30.9	35-136	34.6	30
Dimethyl Phthalate	11.2	5.00	ug/L	50.00		22.4	38-120	45.0	30
Acenaphthylene	13.0	5.00	ug/L	50.00		26.0	33-145	38.7	30
2,6-Dinitrotoluene	16.5	5.00	ug/L	50.00		32.9	50-158	34.7	30
3-Nitroaniline	15.0	5.00	ug/L	50.00		30.0	31-141	39.3	30
Acenaphthene	15.8	5.00	ug/L	50.00		31.5	47-145	36.1	30
2,4-Dinitrophenol	7.35	5.00	ug/L	50.00		14.7	21-191	18.7	30
4-Nitrophenol	7.09	5.00	ug/L	50.00		14.2	9-132	19.6	30
Dibenzofuran	17.0	5.00	ug/L	50.00		34.1	40-131	36.6	30
2,4-Dinitrotoluene	18.7	5.00	ug/L	50.00		37.4	39-139	28.5	30
2,3,4,6-Tetrachlorophenol	17.6	5.00	ug/L	50.00		35.2	38-136	32.1	30
Fluorene	18.0	5.00	ug/L	50.00		36.0	59-121	35.6	30
Diethylphthalate	16.1	5.00	ug/L	50.00		32.1	31-114	36.7	30
4-Chlorophenyl-Phenylether	16.6	5.00	ug/L	50.00		33.2	25-158	37.0	30
4-Nitroaniline	16.2	5.00	ug/L	50.00		32.5	39-123	37.1	30
4,6-Dinitro-2-Methylphenol	16.0	5.00	ug/L	50.00		32.1	17-181	17.3	30
N-Nitrosodiphenylamine	17.1	5.00	ug/L	50.00		34.2	79-139	66.4	30
4-Bromophenyl-Phenylether	16.9	5.00	ug/L	50.00		33.9	53-127	35.3	30
Hexachlorobenzene	18.1	5.00	ug/L	50.00		36.2	35-152	30.8	30

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
LCS Dup (B409042-BSD2)									
Atrazine	31.3	5.00	ug/L	50.00		62.5	23-152	26.2	30
Pentachlorophenol	16.4	5.00	ug/L	50.00		32.8	14-176	20.5	30
Phenanthrene	19.6	5.00	ug/L	50.00		39.1	54-120	28.4	30
Anthracene	19.4	5.00	ug/L	50.00		38.8	27-133	29.0	30
Carbazole	18.3	5.00	ug/L	50.00		36.7	38-131	27.3	30
Di-N-Butyl Phthalate	21.6	5.00	ug/L	50.00		43.2	1-120	23.8	30
Fluoranthene	20.2	5.00	ug/L	50.00		40.3	26-137	22.3	30
Pyrene	20.6	5.00	ug/L	50.00		41.1	52-120	21.9	30
Butylbenzylphthalate	19.0	5.00	ug/L	50.00		37.9	38-152	20.5	30
3,3'- Dichlorobenzidine	14.8	5.00	ug/L	50.00		29.6	38-262	43.4	30
Benzo(A)Anthracene	19.9	5.00	ug/L	50.00		39.8	33-143	25.0	30
Chrysene	20.0	5.00	ug/L	50.00		40.0	17-168	25.3	30
Bis(2-Ethylhexyl)Phthalate	20.9	5.00	ug/L	50.00		41.7	8-158	25.0	30
Di-N-Octyl Phthalate	19.7	5.00	ug/L	50.00		39.4	4-146	23.9	30
Benzo(B)Fluoranthene	19.3	5.00	ug/L	50.00		38.6	24-159	20.4	30
Benzo(K)Fluoranthene	19.8	5.00	ug/L	50.00		39.6	11-162	24.2	30
Benzo(A)Pyrene	16.5	5.00	ug/L	50.00		33.1	17-163	23.2	30
Indeno(1,2,3-Cd)Pyrene	17.8	5.00	ug/L	50.00		35.5	39-171	13.9	30
Dibenzo(A,H)Anthracene	22.5	5.00	ug/L	50.00		45.0	33-227	19.3	30
Benzo(G,H,I)Perylene	17.9	5.00	ug/L	50.00		35.9	35-219	18.7	30
Surrogate: 1,4-Dioxane-D8	*7.54*		ug/L	*50.00*		*15.1*	*20-120*		
Surrogate: 2-Fluoroaniline	*13.4*		ug/L	*50.00*		*26.8*	*30-120*		
Surrogate: Phenol-D6	*6.15*		ug/L	*50.00*		*12.3*	*20-120*		
Surrogate: Naphthalene-D8	*14.5*		ug/L	*50.00*		*29.0*	*30-120*		
Surrogate: 1-Fluoronaphthalene	*14.4*		ug/L	*50.00*		*28.9*	*30-120*		
Surrogate: 2,4-Dibromophenol	*15.1*		ug/L	*50.00*		*30.2*	*20-120*		
Surrogate: Anthracene-D10	*18.7*		ug/L	*50.00*		*37.4*	*30-120*		
Surrogate: Chrysene-D12	*20.0*		ug/L	*50.00*		*40.1*	*30-120*		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
Matrix Spike (B409042-MS1)	**Source: 2409009-01**								
1,4-Dioxane	21.2	2.00	ug/L	50.00	ND	42.4	7-106		
N-Nitrosodimethylamine	25.2	5.00	ug/L	50.00	ND	50.3	17-127		
Benzaldehyde	43.5	5.00	ug/L	50.00	ND	87.0	8-154		
Phenol	18.8	5.00	ug/L	50.00	ND	37.6	5-112		
Bis(2-Chloroethyl)Ether	38.5	5.00	ug/L	50.00	ND	77.0	12-158		
2-Chlorophenol	38.6	5.00	ug/L	50.00	ND	77.2	23-134		
2-Methylphenol	36.2	5.00	ug/L	50.00	ND	72.4	40-112		
Bis(2-Chloroisopropyl)Ether	39.1	5.00	ug/L	50.00	ND	78.3	36-166		
Acetophenone	39.4	5.00	ug/L	50.00	ND	78.8	43-121		
4-Methylphenol	31.7	5.00	ug/L	50.00	ND	63.5	34-116		
N-Nitroso-Di-N-Propylamine	40.4	5.00	ug/L	50.00	ND	80.9	43-230		
Hexachloroethane	29.3	5.00	ug/L	50.00	ND	58.6	40-120		
Nitrobenzene	39.2	5.00	ug/L	50.00	ND	78.4	35-180		
Isophorone	42.8	5.00	ug/L	50.00	ND	85.7	21-196		
2-Nitrophenol	43.5	5.00	ug/L	50.00	ND	87.0	29-182		
2,4-Dimethylphenol	19.6	5.00	ug/L	50.00	ND	39.2	32-120		
Bis(-2-Chloroethoxy)Methane	41.4	5.00	ug/L	50.00	ND	82.7	33-184		
2,4-Dichlorophenol	43.0	5.00	ug/L	50.00	ND	85.9	39-135		
1,2,4-Trichlorobenzene	34.7	5.00	ug/L	50.00	ND	69.5	44-142		
Hexachlorobutadiene	32.4	5.00	ug/L	50.00	ND	64.8	24-120		
Naphthalene	40.6	5.00	ug/L	50.00	ND	81.1	21-133		
4-Chloroaniline	49.7	5.00	ug/L	50.00	ND	99.4	26-172		
Caprolactam	12.8	5.00	ug/L	50.00	ND	25.6	0-143		
4-Chloro-3-Methylphenol	42.3	5.00	ug/L	50.00	ND	84.6	22-147		
2-Methylnaphthalene	41.9	5.00	ug/L	50.00	ND	83.9	41-126		
1,2,4,5-Tetrachlorobenzene	42.1	5.00	ug/L	50.00	ND	84.2	36-124		
Hexachlorocyclopentadiene	36.7	5.00	ug/L	50.00	ND	73.4	15-76		
2,4,6-Trichlorophenol	43.7	5.00	ug/L	50.00	ND	87.5	37-144		
2,4,5-Trichlorophenol	45.5	5.00	ug/L	50.00	ND	91.1	40-129		
Biphenyl	45.6	5.00	ug/L	50.00	ND	91.2	41-122		
2-Chloronaphthalene	43.3	5.00	ug/L	50.00	ND	86.6	60-120		
2-Nitroaniline	45.8	5.00	ug/L	50.00	ND	91.6	35-136		
Dimethyl Phthalate	36.8	5.00	ug/L	50.00	ND	73.6	38-120		
Acenaphthylene	47.5	5.00	ug/L	50.00	ND	94.9	33-145		
2,6-Dinitrotoluene	46.1	5.00	ug/L	50.00	ND	92.2	50-158		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
Matrix Spike (B409042-MS1)	**Source: 2409009-01**								
3-Nitroaniline	45.9	5.00	ug/L	50.00	ND	91.8	31-141		
Acenaphthene	47.8	5.00	ug/L	50.00	ND	95.6	47-145		
2,4-Dinitrophenol	25.2	5.00	ug/L	50.00	ND	50.3	21-191		
4-Nitrophenol	20.5	5.00	ug/L	50.00	ND	41.0	9-132		
Dibenzofuran	47.2	5.00	ug/L	50.00	ND	94.3	40-131		
2,4-Dinitrotoluene	44.7	5.00	ug/L	50.00	ND	89.4	39-139		
2,3,4,6-Tetrachlorophenol	41.5	5.00	ug/L	50.00	ND	83.0	38-136		
Fluorene	46.8	5.00	ug/L	50.00	ND	93.7	59-121		
Diethylphthalate	42.4	5.00	ug/L	50.00	ND	84.8	31-114		
4-Chlorophenyl-Phenylether	44.0	5.00	ug/L	50.00	ND	88.0	25-158		
4-Nitroaniline	45.6	5.00	ug/L	50.00	ND	91.3	39-123		
4,6-Dinitro-2-Methylphenol	38.1	5.00	ug/L	50.00	ND	76.2	17-181		
N-Nitrosodiphenylamine	55.2	5.00	ug/L	50.00	ND	110	79-139		
4-Bromophenyl-Phenylether	44.4	5.00	ug/L	50.00	ND	88.8	53-127		
Hexachlorobenzene	43.9	5.00	ug/L	50.00	ND	87.9	35-152		
Atrazine	84.2	5.00	ug/L	50.00	ND	168	23-152		
Pentachlorophenol	40.4	5.00	ug/L	50.00	ND	80.7	14-176		
Phenanthrene	48.4	5.00	ug/L	50.00	ND	96.9	54-120		
Anthracene	48.7	5.00	ug/L	50.00	ND	97.5	27-133		
Carbazole	49.6	5.00	ug/L	50.00	ND	99.3	38-131		
Di-N-Butyl Phthalate	53.5	5.00	ug/L	50.00	ND	107	1-120		
Fluoranthene	52.2	5.00	ug/L	50.00	ND	104	26-137		
Pyrene	51.8	5.00	ug/L	50.00	ND	104	52-120		
Butylbenzylphthalate	50.5	5.00	ug/L	50.00	ND	101	38-152		
3,3'- Dichlorobenzidine	41.9	5.00	ug/L	50.00	ND	83.7	38-262		
Benzo(A)Anthracene	46.9	5.00	ug/L	50.00	ND	93.8	33-143		
Chrysene	48.2	5.00	ug/L	50.00	ND	96.4	17-168		
Bis(2-Ethylhexyl)Phthalate	51.6	5.00	ug/L	50.00	ND	103	8-158		
Di-N-Octyl Phthalate	51.1	5.00	ug/L	50.00	ND	102	4-146		
Benzo(B)Fluoranthene	49.8	5.00	ug/L	50.00	ND	99.6	24-159		
Benzo(K)Fluoranthene	50.7	5.00	ug/L	50.00	ND	101	11-162		
Benzo(A)Pyrene	49.2	5.00	ug/L	50.00	ND	98.4	17-163		
Indeno(1,2,3-Cd)Pyrene	46.7	5.00	ug/L	50.00	ND	93.4	39-171		
Dibenzo(A,H)Anthracene	49.4	5.00	ug/L	50.00	ND	98.7	33-227		
Benzo(G,H,I)Perylene	52.1	5.00	ug/L	50.00	ND	104	35-219		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
Matrix Spike (B409042-MS1)	**Source: 2409009-01**								
Surrogate: 1,4-Dioxane-D8	*19.8*		ug/L	*50.00*		*39.6*	*20-120*		
Surrogate: 2-Fluoroaniline	*39.0*		ug/L	*50.00*		*78.0*	*30-120*		
Surrogate: Phenol-D6	*17.8*		ug/L	*50.00*		*35.6*	*20-120*		
Surrogate: Naphthalene-D8	*42.5*		ug/L	*50.00*		*85.1*	*30-120*		
Surrogate: 1-Fluoronaphthalene	*42.3*		ug/L	*50.00*		*84.7*	*30-120*		
Surrogate: 2,4-Dibromophenol	*45.6*		ug/L	*50.00*		*91.1*	*20-120*		
Surrogate: Anthracene-D10	*47.3*		ug/L	*50.00*		*94.7*	*30-120*		
Surrogate: Chrysene-D12	*48.2*		ug/L	*50.00*		*96.4*	*30-120*		
Matrix Spike Dup (B409042-MSD1)	**Source: 2409009-01**								
1,4-Dioxane	18.7	2.02	ug/L	50.51	ND	37.1	7-106	12.3	24
N-Nitrosodimethylamine	22.9	5.05	ug/L	50.51	ND	45.4	17-127	9.27	24
Benzaldehyde	62.9	5.05	ug/L	50.51	ND	125	8-154	36.5	24
Phenol	17.7	5.05	ug/L	50.51	ND	35.0	5-112	6.22	24
Bis(2-Chloroethyl)Ether	34.5	5.05	ug/L	50.51	ND	68.3	12-158	11.0	24
2-Chlorophenol	34.9	5.05	ug/L	50.51	ND	69.2	23-134	10.0	24
2-Methylphenol	33.1	5.05	ug/L	50.51	ND	65.5	40-112	9.09	24
Bis(2-Chloroisopropyl)Ether	34.5	5.05	ug/L	50.51	ND	68.3	36-166	12.6	24
Acetophenone	36.3	5.05	ug/L	50.51	ND	71.9	43-121	8.21	24
4-Methylphenol	29.5	5.05	ug/L	50.51	ND	58.3	34-116	7.44	24
N-Nitroso-Di-N-Propylamine	37.7	5.05	ug/L	50.51	ND	74.6	43-230	7.05	24
Hexachloroethane	21.9	5.05	ug/L	50.51	ND	43.4	40-120	28.7	24
Nitrobenzene	35.4	5.05	ug/L	50.51	ND	70.2	35-180	10.1	24
Isophorone	39.8	5.05	ug/L	50.51	ND	78.8	21-196	7.33	24
2-Nitrophenol	40.7	5.05	ug/L	50.51	ND	80.5	29-182	6.76	24
2,4-Dimethylphenol	15.7	5.05	ug/L	50.51	ND	31.2	32-120	21.9	24
Bis(-2-Chloroethoxy)Methane	38.2	5.05	ug/L	50.51	ND	75.6	33-184	7.97	24
2,4-Dichlorophenol	39.8	5.05	ug/L	50.51	ND	78.7	39-135	7.69	24
1,2,4-Trichlorobenzene	28.1	5.05	ug/L	50.51	ND	55.5	44-142	21.3	24
Hexachlorobutadiene	25.5	5.05	ug/L	50.51	ND	50.5	24-120	23.9	24
Naphthalene	33.6	5.05	ug/L	50.51	ND	66.5	21-133	18.9	24
4-Chloroaniline	21.9	5.05	ug/L	50.51	ND	43.4	26-172	77.6	24
Caprolactam	12.5	5.05	ug/L	50.51	ND	24.8	0-143	2.09	24
4-Chloro-3-Methylphenol	40.3	5.05	ug/L	50.51	ND	79.7	22-147	4.86	24
2-Methylnaphthalene	36.7	5.05	ug/L	50.51	ND	72.7	41-126	13.3	24

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
Matrix Spike Dup (B409042-MSD1)	**Source: 2409009-01**								
1,2,4,5-Tetrachlorobenzene	37.1	5.05	ug/L	50.51	ND	73.5	36-124	12.5	24
Hexachlorocyclopentadiene	31.1	5.05	ug/L	50.51	ND	61.6	15-76	16.5	24
2,4,6-Trichlorophenol	43.3	5.05	ug/L	50.51	ND	85.7	37-144	1.10	24
2,4,5-Trichlorophenol	44.1	5.05	ug/L	50.51	ND	87.2	40-129	3.30	24
Biphenyl	40.9	5.05	ug/L	50.51	ND	80.9	41-122	10.9	24
2-Chloronaphthalene	38.7	5.05	ug/L	50.51	ND	76.6	60-120	11.2	24
2-Nitroaniline	42.7	5.05	ug/L	50.51	ND	84.6	35-136	6.94	24
Dimethyl Phthalate	32.3	5.05	ug/L	50.51	ND	64.0	38-120	13.0	24
Acenaphthylene	42.1	5.05	ug/L	50.51	ND	83.4	33-145	11.9	24
2,6-Dinitrotoluene	43.8	5.05	ug/L	50.51	ND	86.7	50-158	5.23	24
3-Nitroaniline	40.4	5.05	ug/L	50.51	ND	80.1	31-141	12.6	24
Acenaphthene	43.1	5.05	ug/L	50.51	ND	85.4	47-145	10.3	24
2,4-Dinitrophenol	37.4	5.05	ug/L	50.51	ND	74.1	21-191	39.2	24
4-Nitrophenol	23.0	5.05	ug/L	50.51	ND	45.5	9-132	11.4	24
Dibenzofuran	43.6	5.05	ug/L	50.51	ND	86.3	40-131	7.90	24
2,4-Dinitrotoluene	43.1	5.05	ug/L	50.51	ND	85.4	39-139	3.50	24
2,3,4,6-Tetrachlorophenol	45.8	5.05	ug/L	50.51	ND	90.8	38-136	9.91	24
Fluorene	43.6	5.05	ug/L	50.51	ND	86.3	59-121	7.22	24
Diethylphthalate	39.3	5.05	ug/L	50.51	ND	77.8	31-114	7.63	24
4-Chlorophenyl-Phenylether	41.5	5.05	ug/L	50.51	ND	82.1	25-158	5.88	24
4-Nitroaniline	41.6	5.05	ug/L	50.51	ND	82.4	39-123	9.20	24
4,6-Dinitro-2-Methylphenol	43.1	5.05	ug/L	50.51	ND	85.3	17-181	12.2	24
N-Nitrosodiphenylamine	47.0	5.05	ug/L	50.51	ND	93.0	79-139	16.2	24
4-Bromophenyl-Phenylether	42.3	5.05	ug/L	50.51	ND	83.7	53-127	4.88	24
Hexachlorobenzene	41.8	5.05	ug/L	50.51	ND	82.8	35-152	4.97	24
Atrazine	79.3	5.05	ug/L	50.51	ND	157	23-152	6.09	24
Pentachlorophenol	52.1	5.05	ug/L	50.51	ND	103	14-176	25.4	24
Phenanthrene	45.7	5.05	ug/L	50.51	ND	90.5	54-120	5.76	24
Anthracene	45.5	5.05	ug/L	50.51	ND	90.2	27-133	6.80	24
Carbazole	45.1	5.05	ug/L	50.51	ND	89.2	38-131	9.71	24
Di-N-Butyl Phthalate	51.4	5.05	ug/L	50.51	ND	102	1-120	3.92	24
Fluoranthene	49.3	5.05	ug/L	50.51	ND	97.7	26-137	5.63	24
Pyrene	49.0	5.05	ug/L	50.51	ND	97.0	52-120	5.61	24
Butylbenzylphthalate	48.0	5.05	ug/L	50.51	ND	95.0	38-152	5.22	24
3,3'- Dichlorobenzidine	24.4	5.05	ug/L	50.51	ND	48.3	38-262	52.7	24

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409042									
Matrix Spike Dup (B409042-MSD1)	**Source: 2409009-01**								
Benzo(A)Anthracene	46.8	5.05	ug/L	50.51	ND	92.6	33-143	0.325	24
Chrysene	47.9	5.05	ug/L	50.51	ND	94.9	17-168	0.563	24
Bis(2-Ethylhexyl)Phthalate	52.3	5.05	ug/L	50.51	ND	104	8-158	1.37	24
Di-N-Octyl Phthalate	51.0	5.05	ug/L	50.51	ND	101	4-146	0.157	24
Benzo(B)Fluoranthene	48.3	5.05	ug/L	50.51	ND	95.7	24-159	3.01	24
Benzo(K)Fluoranthene	47.6	5.05	ug/L	50.51	ND	94.3	11-162	6.25	24
Benzo(A)Pyrene	46.8	5.05	ug/L	50.51	ND	92.7	17-163	4.96	24
Indeno(1,2,3-Cd)Pyrene	45.8	5.05	ug/L	50.51	ND	90.8	39-171	1.91	24
Dibenzo(A,H)Anthracene	49.2	5.05	ug/L	50.51	ND	97.5	33-227	0.259	24
Benzo(G,H,I)Perylene	51.4	5.05	ug/L	50.51	ND	102	35-219	1.38	24
Surrogate: 1,4-Dioxane-D8	*17.4*		ug/L	*50.51*		*34.4*	*20-120*		
Surrogate: 2-Fluoroaniline	*30.2*		ug/L	*50.51*		*59.8*	*30-120*		
Surrogate: Phenol-D6	*16.8*		ug/L	*50.51*		*33.3*	*20-120*		
Surrogate: Naphthalene-D8	*36.6*		ug/L	*50.51*		*72.4*	*30-120*		
Surrogate: 1-Fluoronaphthalene	*35.7*		ug/L	*50.51*		*70.8*	*30-120*		
Surrogate: 2,4-Dibromophenol	*43.3*		ug/L	*50.51*		*85.8*	*20-120*		
Surrogate: Anthracene-D10	*44.9*		ug/L	*50.51*		*89.0*	*30-120*		
Surrogate: Chrysene-D12	*48.8*		ug/L	*50.51*		*96.6*	*30-120*		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409052									
Blank (B409052-BLK1)									
Arsenic	--- U	8.00	ug/L						
Cadmium	--- U	3.00	ug/L						
Chromium	--- U	5.00	ug/L						
Copper	--- U	10.0	ug/L						
Iron	--- U	50.0	ug/L						
Lead	--- U	8.00	ug/L						
Nickel	--- U	20.0	ug/L						
Silver	--- U	5.00	ug/L						
Zinc	--- U	20.0	ug/L						
LCS (B409052-BS1)									
Arsenic	205	8.00	ug/L	200.0		103	85-115		
Cadmium	208	3.00	ug/L	200.0		104	85-115		
Chromium	207	5.00	ug/L	200.0		103	85-115		
Copper	202	10.0	ug/L	200.0		101	85-115		
Iron	5220	50.0	ug/L	5000		104	85-115		
Lead	212	8.00	ug/L	200.0		106	85-115		
Nickel	208	20.0	ug/L	200.0		104	85-115		
Silver	208	5.00	ug/L	200.0		104	85-115		
Zinc	213	20.0	ug/L	200.0		106	85-115		
LCS Dup (B409052-BSD1)									
Arsenic	205	8.00	ug/L	200.0		103	85-115	0.141	20
Cadmium	207	3.00	ug/L	200.0		104	85-115	0.260	20
Chromium	207	5.00	ug/L	200.0		103	85-115	0.0290	20
Copper	202	10.0	ug/L	200.0		101	85-115	0.0892	20
Iron	5200	50.0	ug/L	5000		104	85-115	0.282	20
Lead	211	8.00	ug/L	200.0		105	85-115	0.516	20
Nickel	208	20.0	ug/L	200.0		104	85-115	0.365	20
Silver	207	5.00	ug/L	200.0		104	85-115	0.289	20
Zinc	212	20.0	ug/L	200.0		106	85-115	0.244	20

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409052									
Matrix Spike (B409052-MS1)	**Source: 2409009-01**								
Arsenic	216	8.00	ug/L	200.0	5.92	105	80-120		
Cadmium	209	3.00	ug/L	200.0	ND	105	80-120		
Chromium	209	5.00	ug/L	200.0	5.60	102	80-120		
Copper	226	10.0	ug/L	200.0	8.36	109	80-120		
Iron	7220	50.0	ug/L	5000	2110	102	80-120		
Lead	209	8.00	ug/L	200.0	ND	105	80-120		
Nickel	230	20.0	ug/L	200.0	24.2	103	80-120		
Silver	210	5.00	ug/L	200.0	ND	105	80-120		
Zinc	251	20.0	ug/L	200.0	31.7	109	80-120		
Matrix Spike Dup (B409052-MSD1)	**Source: 2409009-01**								
Arsenic	213	40.0	ug/L	200.0	ND	106	80-120	1.34	10
Cadmium	207	15.0	ug/L	200.0	ND	104	80-120	0.999	10
Chromium	203	25.0	ug/L	200.0	ND	102	80-120	2.94	10
Copper	211	50.0	ug/L	200.0	ND	106	80-120	6.67	10
Iron	7040	250	ug/L	5000	2110	98.5	80-120	2.54	10
Lead	203	40.0	ug/L	200.0	ND	102	80-120	2.87	10
Nickel	228	100	ug/L	200.0	24.2	102	80-120	1.31	10
Silver	199	25.0	ug/L	200.0	ND	99.4	80-120	5.74	10
Zinc	244	100	ug/L	200.0	31.7	106	80-120	2.67	10

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

Mercury CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409051									
Blank (B409051-BLK1)									
Mercury	--- U	0.050	ug/L						
LCS (B409051-BS1)									
Mercury	0.898	0.050	ug/L	1.000		89.8	85-115		
LCS Dup (B409051-BSD1)									
Mercury	0.908	0.050	ug/L	1.000		90.8	85-115	1.11	20
Matrix Spike (B409051-MS1)	**Source: 2409009-01**								
Mercury	0.915	0.050	ug/L	1.000	ND	91.5	80-120		

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409039									
Blank (B409039-BLK1)									
Biochemical Oxygen Demand	--- U	2.00	mg/L						
LCS (B409039-BS1)									
Biochemical Oxygen Demand	173		mg/L	198.0		87.6	84.6-115.4		
LCS (B409039-BS2)									
Biochemical Oxygen Demand	173		mg/L	198.0		87.3	84.6-115.4		
LCS (B409039-BS3)									
Biochemical Oxygen Demand	171		mg/L	198.0		86.3	84.6-115.4		
Duplicate (B409039-DUP1)	**Source: 2409009-01**								
Biochemical Oxygen Demand	2.97	2.00	mg/L		2.56			14.8	25
Matrix Spike (B409039-MS1)	**Source: 2409009-01**								
Biochemical Oxygen Demand	176	2.00	mg/L	158.4	2.56	109	75-125		
Matrix Spike Dup (B409039-MSD1)	**Source: 2409009-01**								
Biochemical Oxygen Demand	126	2.00	mg/L	118.8	2.56	104	75-125	33.0	200
Batch B409040									
Blank (B409040-BLK1)									
Residue, Non-Filterable	--- U	10.0	mg/L						
LCS (B409040-BS1)									
Residue, Non-Filterable	46.0	10.0	mg/L	46.40		99.1	85-115		

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409040									
LCS Dup (B409040-BSD1)									
Residue, Non-Filterable	46.0	10.0	mg/L	46.40		99.1	85-115	0.00	20
Duplicate (B409040-DUP1)		**Source: 2409003-02**							
Residue, Non-Filterable	18.0	10.0	mg/L		18.0			0.00	20
Batch B409050									
Blank (B409050-BLK1)									
Cyanide, Total	--- U	20.0	ug/L						
LCS (B409050-BS1)									
Cyanide, Total	694	100	ug/L	673.0		103	90-110		
LCS Dup (B409050-BSD1)									
Cyanide, Total	676	100	ug/L	673.0		100	90-110	3	20
Matrix Spike (B409050-MS1)		**Source: 2409003-02**							
Cyanide, Total	202	20.0	ug/L	200.0	ND	101	90-110		
Matrix Spike (B409050-MS2)		**Source: 2409009-01**							
Cyanide, Total	171	20.0	ug/L	200.0	ND	85	90-110		
Batch B409057									
Blank (B409057-BLK1)									
Ammonia [As N]	--- U	0.100	mg/L						

Final Report

Project: Weco Metals Pretreatment CSI - 2409009

Project Number: 2409009

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409057									
LCS (B409057-BS1)									
Ammonia [As N]	0.990	0.100	mg/L	1.030		96	90-110		
LCS Dup (B409057-BSD1)									
Ammonia [As N]	0.990	0.100	mg/L	1.030		96	90-110	0.03	20
Matrix Spike (B409057-MS1)	**Source: 2409009-01**								
Ammonia [As N]	0.532	0.100	mg/L	0.5000	0.0537	96	90-110		
Batch B409076									
Blank (B409076-BLK1)									
Phenolics, Total	--- U	20.0	ug/L						
LCS (B409076-BS1)									
Phenolics, Total	1770	200	ug/L	1670		106	90-110		
LCS Dup (B409076-BSD1)									
Phenolics, Total	1790	200	ug/L	1670		107	90-110	1	20
Matrix Spike (B409076-MS1)	**Source: 2409003-02**								
Phenolics, Total	224	20.0	ug/L	200.0	22.3	101	90-110		
Matrix Spike (B409076-MS2)	**Source: 2409009-01**								
Phenolics, Total	213	20.0	ug/L	200.0	ND	106	90-110		
Matrix Spike (B409076-MS3)	**Source: 2409024-01**								
Phenolics, Total	279	40.0	ug/L	200.0	96.5	91	90-110		

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

US EPA REGION 2 LABORATORY

Page 1 of 2 pages

CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY: Weco Manufacturing - Ontario, NY

SITE ID: ____ OPERABLE UNIT: ____

PROJECT LEADER: Bob Morrell

PROGRAM RESULTS CODE: ____

PROGRAM: SF ☐ : RCRA ☐ RCRA ENF ☐ NPDES ☑ SDWA ☐ AM ☐ CAA ☐ TSCA ☐ OD ☐ FIFRA ☐ CRIMINAL ENF ☐

Decision Unit Code: Y206 D210 D307 B304 C215 B224 A305 L306 B253

Permit # / LAB ID/ FIELD ID	# OF CONTAINERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS.	Res Cl Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Pretreatment									
Process Discharge Comp	10	A	☐	2 1-liter plastic jars for BODs	☐	0 1 2 3 4 5 6 7 8 9 10	1010	1055	09/11/24
			☐	1 500-ml plastic jar for TSS	☐	0 1 2 3 4 5 6 7 8 9 10			
			☐	1 250-ml plastic jar for Ammonia	☐	0 1 2 3 4 5 6 7 8 9 10			
			☐	1 250-ml plastic jar for Metals (As, Cd, Cr, Cu, Fe, Pb, Hg, Ni, Ag, Zn)	☐	0 1 2 3 4 5 6 7 8 9 10			
			☐	1 250-ml plastic jar for Cyanide	☐	0 1 2 3 4 5 6 7 8 9 10			
			☐	1 250-ml amber glass jar for Total Phenolics	☐	0 1 2 3 4 5 6 7 8 9 10			
			☐	3 1-liter amber glass jars for TTO NVOA's	☐	0 1 2 3 4 5 6 7 8 9 10			
Trip Blank	3	A	☐	3 40-ml glass vials for TTO VOA's	☐	0 1 2 3 4 5 6 7 8 9 10		0955	09/11/24
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			

COMMENTS & SPECIAL REQUIREMENTS:

Preservative Added & Checked

0=ice; 1=H2SO4 pH<2; 2=HNO3 pH<2; 3=HCl pH<2; 4=Na2S2O3; 5=NaOH pH>9; 6=Ascorbic Acid; 7=FAS; 8=ZnAc; 9=NaOH pH>12; 10=NH4Cl

	Time	Date
Person Assuming Responsibility for Sample(s): Robert A Morrell	1155	9/11/24
Relinquished By: Robert A Morrell / Received By:	17.50	9/11/24
Relinquished By: / Received By:		
Relinquished By: / Received By:		

Matrix: A=aqueous; B=aqueous (chlorinated); C=soil; D=sediment; E=sludge; F=multiphasic; G=solvent; H=biota; I=oil; J=other

Survey Complete? Y ☑ N ☐

Direct from sampler, chilled to 4°C 9/11/24

Revised 10/25/2004

US EPA REGION 2 LABORATORY

CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY: Weco Manufacturing - Ontario, NY

PROJECT LEADER: Bob Morrell

PROGRAM: SF ☐ : SITE ID ____ OPERABLE UNIT ____ PROGRAM RESULTS CODE ____

Decision Unit Code	Y206	RCRA ☐ D210	RCRA ENF ☐ D307	NPDES ☑ B304	SDWA ☐ C215	AM ☐ B224	CAA ☐ A305	TSCA ☐ L306	OD ☐ B253	FIFRA ☐	CRIMINAL ENF ☐

Permit #: Pretreatment

LAB ID/ FIELD ID	CONTAINERS # OF	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS,	Res Cl Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Process Disch-Grab #1	3	A	☐	3 40-ml glass vials for TTO VOA's	☐	1 2 3 4 5 6 7 8 9 10		1010	09/11/24
Process Disch-Grab #2	3	A	☐	3 40-ml glass vials for TTO VOA's	☐	1 2 3 4 5 6 7 8 9 10		1025	09/11/24
Process Disch-Grab #3	3	A	☐	3 40-ml glass vials for TTO VOA's	☐	1 2 3 4 5 6 7 8 9 10		1040	09/11/24
Process Disch-Grab #4	3	A	☐	3 40-ml glass vials for TTO VOA's	☐	1 2 3 4 5 6 7 8 9 10		1055	09/11/24
			☐		☐	1 2 3 4 5 6 7 8 9 10			
			☐		☐	1 2 3 4 5 6 7 8 9 10			
			☐		☐	1 2 3 4 5 6 7 8 9 10			
			☐		☐	1 2 3 4 5 6 7 8 9 10			
			☐		☐	1 2 3 4 5 6 7 8 9 10			
			☐		☐	1 2 3 4 5 6 7 8 9 10			

9/11/24

COMMENTS & SPECIAL REQUIREMENTS:

* The four grab samples for TTO VOA's will be composited in the lab.

Preservative Added & Checked

0=ice; 1=H2SO4 pH<2; 2=HNO3 pH<2; 3=HCl pH<2; 4=Na2S2O3; 5=NaOH pH>9; 6=Ascorbic Acid; 7=FAS; 8=ZnAc; 9=NaOH pH>12; 10=NH4Cl

	Time	Date
Person Assuming Responsibility for Sample(s): Robert A. Morrell	1055	9/11/24
Relinquished By: Robert A. Morrell / Received By:	1750	9/11/24
Relinquished By: / Received By:		
Relinquished By: / Received By:		

Matrix:

A=aqueous; B=aqueous (chlorinated); C=soil; D=sediment; E=sludge; F=emulsified; G=solvent; H=biota; I=oil; J=other

Survey Complete? Y ☑ N ☐

revised 10/25/2004