

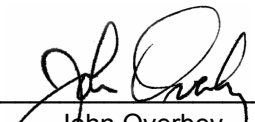


Industrial Metal Finishing Inc.
ATTN: Mr. Brian Niswonger
Post Office Box 326
Pocahontas, AR 72455

This report contains the analytical results and supporting information for samples submitted on April 6, 2012. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Industrial Metal Finishing Inc.
ATTN: Mr. Brian Niswonger
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Pocahontas, AR 72455

SAMPLE INFORMATION

Project Description:

Two (2) water sample(s) received on April 6, 2012

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest. Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
156770-1	IMF4/12 1C, M 4-5-12 3:20pm, 3:21pm	05-Apr-2012 1521	
156770-2	IMF4/12 2C, M 4-5-12 3:40pm, 3:51pm	05-Apr-2012 1551	

Case Narrative:

There were no qualifiers for this data and all samples met quality control criteria.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 20th edition, 1998.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS

AIC No. 156770-1

Sample Identification: IMF4/12 1C, M 4-5-12 3:20pm, 3:21pm

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Cyanide SM4500-CN C,E Prep: 09-Apr-2012 1317 by 302	< 0.01 Analyzed: 09-Apr-2012 1751 by 302	0.01	mg/l Batch: W39482	
Cadmium EPA 200.7 Prep: 09-Apr-2012 1435 by 297	0.0050 Analyzed: 10-Apr-2012 1358 by 270	0.004	mg/l Batch: S32205	
Chromium EPA 200.7 Prep: 09-Apr-2012 1435 by 297	0.017 Analyzed: 10-Apr-2012 1358 by 270	0.007	mg/l Batch: S32205	
Copper EPA 200.7 Prep: 09-Apr-2012 1435 by 297	0.027 Analyzed: 10-Apr-2012 1358 by 270	0.006	mg/l Batch: S32205	
Lead EPA 200.7 Prep: 09-Apr-2012 1435 by 297	< 0.04 Analyzed: 10-Apr-2012 1358 by 270	0.04	mg/l Batch: S32205	
Nickel EPA 200.7 Prep: 09-Apr-2012 1435 by 297	< 0.01 Analyzed: 10-Apr-2012 1358 by 270	0.01	mg/l Batch: S32205	
Silver EPA 200.7 Prep: 09-Apr-2012 1435 by 297	< 0.007 Analyzed: 10-Apr-2012 1358 by 270	0.007	mg/l Batch: S32205	
Zinc EPA 200.7 Prep: 09-Apr-2012 1435 by 297	0.15 Analyzed: 10-Apr-2012 1358 by 270	0.002	mg/l Batch: S32205	

AIC No. 156770-2

Sample Identification: IMF4/12 2C, M 4-5-12 3:40pm, 3:51pm

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Cyanide SM4500-CN C,E Prep: 09-Apr-2012 1317 by 302	< 0.01 Analyzed: 09-Apr-2012 1753 by 302	0.01	mg/l Batch: W39482	
Cadmium EPA 200.7 Prep: 09-Apr-2012 1435 by 297	0.0088 Analyzed: 10-Apr-2012 1402 by 270	0.004	mg/l Batch: S32205	
Chromium EPA 200.7 Prep: 09-Apr-2012 1435 by 297	0.010 Analyzed: 10-Apr-2012 1402 by 270	0.007	mg/l Batch: S32205	
Copper EPA 200.7 Prep: 09-Apr-2012 1435 by 297	0.036 Analyzed: 10-Apr-2012 1402 by 270	0.006	mg/l Batch: S32205	
Lead EPA 200.7 Prep: 09-Apr-2012 1435 by 297	< 0.04 Analyzed: 10-Apr-2012 1402 by 270	0.04	mg/l Batch: S32205	
Nickel EPA 200.7 Prep: 09-Apr-2012 1435 by 297	< 0.01 Analyzed: 10-Apr-2012 1402 by 270	0.01	mg/l Batch: S32205	
Silver EPA 200.7 Prep: 09-Apr-2012 1435 by 297	< 0.007 Analyzed: 10-Apr-2012 1402 by 270	0.007	mg/l Batch: S32205	
Zinc EPA 200.7 Prep: 09-Apr-2012 1435 by 297	0.34 Analyzed: 10-Apr-2012 1402 by 270	0.002	mg/l Batch: S32205	

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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	0.1 mg/l	94.4	85.0-115			W39482	09Apr12 1319 by 302	09Apr12 1729 by 302		
Cadmium	5 mg/l	101	85.0-115			S32205	09Apr12 1436 by 297	10Apr12 1127 by 270		
Chromium	0.5 mg/l	101	85.0-115			S32205	09Apr12 1436 by 297	10Apr12 1127 by 270		
Copper	0.5 mg/l	103	85.0-115			S32205	09Apr12 1436 by 297	10Apr12 1127 by 270		
Lead	5 mg/l	101	85.0-115			S32205	09Apr12 1436 by 297	10Apr12 1127 by 270		
Nickel	0.5 mg/l	103	85.0-115			S32205	09Apr12 1436 by 297	10Apr12 1127 by 270		
Silver	0.1 mg/l	101	85.0-115			S32205	09Apr12 1436 by 297	10Apr12 1127 by 270		
Zinc	0.5 mg/l	101	85.0-115			S32205	09Apr12 1436 by 297	10Apr12 1127 by 270		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	156754-3	0.1 mg/l	94.2	75.0-125	W39482	09Apr12 1319 by 302	09Apr12 1732 by 302		
	156754-3	0.1 mg/l	87.0	75.0-125	W39482	09Apr12 1319 by 302	09Apr12 1734 by 302		
	Relative Percent Difference:		7.82	20.0	W39482				
Cadmium	156775-2	5 mg/l	104	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1130 by 270		
	156775-2	5 mg/l	99.4	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1133 by 270		
	Relative Percent Difference:		4.38	20.0	S32205				
Chromium	156775-2	0.5 mg/l	103	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1130 by 270		
	156775-2	0.5 mg/l	102	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1133 by 270		
	Relative Percent Difference:		1.01	20.0	S32205				
Copper	156775-2	0.5 mg/l	105	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1130 by 270		
	156775-2	0.5 mg/l	103	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1133 by 270		
	Relative Percent Difference:		1.86	20.0	S32205				
Lead	156775-2	5 mg/l	103	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1130 by 270		
	156775-2	5 mg/l	102	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1133 by 270		
	Relative Percent Difference:		1.54	20.0	S32205				
Nickel	156775-2	0.5 mg/l	104	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1130 by 270		
	156775-2	0.5 mg/l	103	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1133 by 270		
	Relative Percent Difference:		1.18	20.0	S32205				
Silver	156775-2	0.1 mg/l	101	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1130 by 270		
	156775-2	0.1 mg/l	95.9	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1133 by 270		
	Relative Percent Difference:		5.26	20.0	S32205				
Zinc	156775-2	0.5 mg/l	102	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1130 by 270		
	156775-2	0.5 mg/l	99.8	75.0-125	S32205	09Apr12 1436 by 297	10Apr12 1133 by 270		
	Relative Percent Difference:		2.02	20.0	S32205				



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LABORATORY BLANK RESULTS

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>PQL</u>	<u>QC Sample</u>	<u>Preparation Date</u>	<u>Analysis Date</u>	<u>Qual</u>
Total Cyanide	< 0.01 mg/l	0.01	0.01	W39482-1	09Apr12 1319 by 302	09Apr12 1727 by 302	
Cadmium	< 0.004 mg/l	0.004	0.004	S32205-1	09Apr12 1436 by 297	10Apr12 1124 by 270	
Chromium	< 0.007 mg/l	0.007	0.007	S32205-1	09Apr12 1436 by 297	10Apr12 1124 by 270	
Copper	< 0.006 mg/l	0.006	0.006	S32205-1	09Apr12 1436 by 297	10Apr12 1124 by 270	
Lead	< 0.04 mg/l	0.04	0.04	S32205-1	09Apr12 1436 by 297	10Apr12 1124 by 270	
Nickel	< 0.01 mg/l	0.01	0.01	S32205-1	09Apr12 1436 by 297	10Apr12 1124 by 270	
Silver	< 0.007 mg/l	0.007	0.007	S32205-1	09Apr12 1436 by 297	10Apr12 1124 by 270	
Zinc	< 0.002 mg/l	0.002	0.002	S32205-1	09Apr12 1436 by 297	10Apr12 1124 by 270	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <u>Industrial Metal Finishing</u>		AIC Control No: <u>156770</u>	
Project Reference:		AIC Proposal No:	
Project Manager: <u>Brian Alswanger</u>		Carrier: <u>UPS</u>	
Sampled By: <u>Brian Alswanger</u>		Received Temperature °C: <u>2</u>	
AIC Sample Identification		Remarks	
No.		Analyses Requested	
Sample Matrix		No of BOTTLES	
WATER		SOIL	
GRA B		COMP	
Date/Time Collected		Date/Time	
4-5-12 3:21pm		4-5-12 3:50pm	
4-5-12 3:20pm		4-5-12 3:40pm	
4-4-12 3:40pm		4-4-12 3:51pm	
4-4-12 3:40pm		4-4-12 3:51pm	
Container Type		Field pH calibration	
Preservative		on @	
G = Glass		Buffer:	
NO = none		T = Sodium Thiosulfate	
P = Plastic		Z = Zinc acetate	
S = Sulfuric acid pH2		H = HCl to pH2	
V = VOA vials		B = NaOH to pH12	
N = Nitric acid pH2		Received	
Date/Time		By: <u>[Signature]</u>	
4-5-12 3:50pm		Date/Time	
Relinquished		Received in Lab	
By: <u>[Signature]</u>		By: <u>[Signature]</u>	
Date/Time		Date/Time	
Relinquished		0945	
By:		Comments: <u>samples were taken every 2 hrs during an 8 hr work period</u>	
Turnaround Time Requested: (Please circle)		Date/Time	
NORMAL or EXPEDITED IN ___ DAYS		4-5-12 3:50pm	
Expedited results requested by:		Date/Time	
Who should AIC contact with questions:		Date/Time	
Phone: <u>800-886-7531</u> Fax:		Date/Time	
Report Attention to: <u>Brian Alswanger</u>		Date/Time	
Report Address to:		Date/Time	