Gage, Hannah

From: Johnson, Lindsay

Sent: Thursday, February 16, 2017 10:50 AM

To: Gage, Hannah

Subject: FW: AR0021580_Rea Wire ARP00020 Early March 2017 semi annual Pretreatment

report_20170216

Attachments: Algonquin Sept 2016 - Feb 2017 Waste Water Report.pdf

I forgot to Cc you in this. ©

From: Johnson, Lindsay

Sent: Thursday, February 16, 2017 10:49 AM

To: 'jrausch@reawire.com'

Cc: Yates, Adam; Leamons, Bryan; McWilliams, Carrie

Subject: AR0021580_Rea Wire ARP00020 Early March 2017 semi annual Pretreatment report_20170216

Good Morning,

Rea Wire's March 2017 semi-annual Pretreatment report was received early, reviewed, and deemed complete and compliant with the reporting requirements in 40 CFR 403.12(e) and with the Aluminum Forming operations in 40 CFR 467.35.

It has been recorded that the plant has permanently ceased operations on November 6, 2016, therefore no further actions are required.

Thank you,

Lindsay Johnson NPDES Staff Engineer ADEQ-Office of Water Quality (501)682-0045



Rea Magnet Wire Company, Inc. Algonquin Industries Division 1800 U.S Hwy 61 South Osceola, AR 72370

February 8, 2017

Mr. Allen Gilliam Arkansas Department of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118

Re: Semi-Annual Wastewater Monitoring Report

Rea Magnet Wire Company Inc. — Algonquin Industries Division

Osceola, Arkansas Plant

Dear Mr. Gilliam:

Please find enclosed the semi-annual wastewater monitoring report for the September 2016 — February 2017 monitoring period including a flow schematic, a copy of the analytical results of the sampling¹, and a process description for the facility. A spreadsheet containing updated limitation calculations for the discharges from the facility will accompany the electronic submittal of this report.

Additionally, please note that the final industrial wastewater discharge from Rea Magnet Wire Company Inc. – Algonquin Industries Division occurred on October 30, 2016 and production at the facility permanently ceased on November 6, 2016; therefore, the facility does not anticipate the need for any future reporting related to wastewater monitoring.

If you need any additional information, please contact me at (260) 421-7440 or by email at ltutton@reawire.com.

Sincerely,

By: Lewis A. Tutton

Corporate Environmental Manager Rea Magnet Wire Company Inc.

Enclosures

cc: James Carlock, Superintendent

Osceola Water Department

PO Box 443

Osceola, Arkansas 72370

¹ At the time of the sampling event, Rea Magnet Wire Company Inc. – Algonquin Industries Division had not determined whether the non-contact cooling water pond would be discharged to the City of Osceola or pumped out by a contractor and shipped offsite; therefore, a sample from the pond (identified as "POND" in the analytical sampling results report) was taken. However, the water in the pond was ultimately pumped out and shipped offsite, so there are no discharges from the pond reported during this monitoring period.

SEMI-ANNUAL REPORT FOR USERS REGULATED BY THE AI & Cu FORMING CATEGORIES

ATTN: Water Div/NPDES Pretreatment

(1) IDENTIFYING IN	FORMATION						
A. LEGAL NAME & MAII	LING ADDRESS	B. FACILITY & LOCATION ADDRESS					
Rea – Algonq 1800 Highway Osceola, AR 7		Rea – Algonquin Industries Division 1800 Highway 61 South Osceola, AR 72370					
C. FACILITY CONTACT	: Lew Tutton (ltutton@r	reawire.com)	TELEPHONE NUMBER: 260-421-7440				
(2) REPORTING PER	IODFISCAL YEAR	2016 & 2017					
A. MONTHS WHICH REP	ORTS ARE DUE	B. PERIOD COVERED BY THIS REPORT					
September & I	March		FROM: September 1, 2016 – February 28, 2017				
(3) DESCRIPTION OF	OPERATION						
	ses per 40 CFR Part 467 (Alı (Copper) Subpart A	uminum) Subpart A & C and	B. CHANGES: SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW INADEQUATE, PROVIDE A NEW SCHEMATIC IF APPROPRIATE.				
PROCESS	PRODUCTION- OFF/LB	PRODUCTION DAYS					
Extruded Aluminum (§467.35 Core Die Cleaning)	154,313	9/1/2016-11/6/2016 67 days					
C. Number of Regular Empl	oyees at this Facility: 4 (as of	D. [Reserved]					

(4) FLOW MEASUREMENT

B. INDIVIDUAL PROCESS WASTESTREAMS DISCHARGED TO POTW

Operation	Operation Average Flow Rate (gpd)		Batch Discharge Volume	Type of Discharge	
Process:					
§467,35 Core-Die Cleaner (Aluminum Extrusion)	5 (estimate)	9 (estimate)	Estimated discharge rate of 5 gallons per die cleaning event and estimated frequency of one die cleaning event per week	Intermittent	
§403.6(e) Unregulated:					
Air compressor condensate blowdown	10 (estimate)	67	NA	Intermittent	
Steam clean forklift wash area	5 (estimate)	67	NA	Intermittent	
§403.6(e) Dilute:		<u> </u>			
Sanitary	6,000 (estimate)	67	NA	Continuous	

A. TYPE OF TREATMENT SYSTEM CHECK EACH APPLICABLE BLOCK Neutralization Chromium Reduction Chromium Reductio	(5) 1	MEASURMENT OF POLLUTANT	`S										
Concentrations (mg/l) Cr Cu Pb Ni Zn TTO O&G CN	A. T'	Neutralization Chemical Precipitation and Sedir Chromium Reduction Cyanide Destruction Other		BLE BLOO	CK B. C	OMMENT	'S ON TREATI	MENT SY	STEM				
Die Cleaning Allowable Concentrations* 9,1 3,7 NA NA NA NA 0,340 NA 1094 \$38 6.0 2.4 Die Coming Messaged Concentrations 40,01 NA NA NA NA 0,340 NA 0,340 NA 0,050 40CFR136 Preservation and Analytical Methods Use: Yes No CHECK ONE: CYANIDE ANALYSIS ATTACHED CVANIDE CERTIFICATION PROVIDED BELOW (September SAR Only) In accordance with \$467,03(a), based on my inquiry of the person or persons directly responsible for managing compliance with pretreatment standards, I certify that to the best of my knowledge, cyanide kas not be used or generated in our processes which are regulated by the Aluminum Forming (40 CFR 467,35) categorical pretreatment standards since analyzing the first wastewater sample in January, February, or March of this calendar year; and that the results of the first analysis contained less than 0.97 mg/f cyanide. Lewis A. Tutton (Typed Jame) Lewis A. Tutton (Typed Jame) Date of Signature 2/B/Zor/T B. CHECK ONE: REQUIRED TOXIC ORGANIC ANALYSIS ATTACHED OAG ANALYSIS ATTACHED Date of Signature 2/B/Zor/T B. CHECK ONE: REQUIRED TOXIC ORGANIC ANALYSIS ATTACHED OAG ANALYSIS ATTACHED	SF	OWS A MAXIMUM, TABULATE ALL THE ANALYTICAL DATA											
Die Cleaning Allowable Concentrations* 9.1 3.7 NA NA NA NA 0.340 NA 1094 538 68 24 40.011 NA NA NA NA 0.340 NA 0.340 NA 0.05 40.07		Concentrations (mg/l)	Cr	Cu	Pb	Ni	Zn	TTO	0.	&G	(CN	
Die Cleening Menured Concentrations 40.01 NA NA NA 0.340 NA 46.67 40.005 40CFR136 Preservation and Analytical Methods Use: Yes No (6) CERTIFICATION A. CHECK ONE: CANIDE ANALYSIS ATTACHED CYANIDE CERTIFICATION PROVIDED BELOW (September SAR Ouly) In accordance with \$467.03(a), based on my inquiry of the person or persons directly responsible for managing compliance with pretreatment standards, I certify that to the best of my knowledge, cyanide has not been used or generated and will not be used or generated in our processes which are regulated by the Aluminum Forming (40 CFR 467.3) etalegorical pretreatment standards since analyzing the first wastewater sample in January, February, or March of this calendar year; and that the results of the first analysis contained less than 0.07 mg/cyanide. Lewis A. Tutton (Typed January) B. CHECK ONE: REQUIRED TOXIC ORGANIC ANALYSIS ATTACHED ORGANIC ORGANIC ANALYSIS ATTACHED In accordance with \$467.03(b) & \$468.03(b), as an alternative monitoring procedure for perteratment, the POTW user may measure and limit oil and grease to the levels shown in Section 5.C in lieu of measuring and regulating total toxic organics (TTO). CORPORATE ACKNOWLEDGEMENT (Optional) STATE OF ARKANSAS COUNTY OF MISSISSIPPI Before me, the undersigned authority, on this day personally appeared of a scripture of the compaction, known to me to be the pesson whose name is subscribed to the foregoing instrument(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation. Given under my hand and seal of office on this day of 199 Notary Public in and for County, Arkansas		(5 /							1094	535			1
(6) CERTIFICATION A. CHECK ONE: CYANIDE ANALYSIS ATTACHED CYANIDE CERTIFICATION PROVIDED BELOW (September SAR Only) In accordance with \$467.03(a), based on my inquiry of the person or persons directly responsible for managing compliance with pretreatment standards, I certify that to the best of my knowledge, cyanide has not been used or generated and will not be used or generated in our processes which are regulated by the Alaminum Forming (40 CFR 467.35) categorical pretreatment standards since analyzing the first wastewater sample in January, February, or March of this calendar year; and that the results of the first analysis contained less than 0.07 mg/l cyanide. Lewis A. Tutton (Typed yame) Lewis A. Tutton (Typed yame) Date of Signature 2/8/20/1 B. CHECK ONE: REQUIRED TOXIC ORGANIC ANALYSIS ATTACHED In accordance with \$467.03(b) & \$468.03(b), as an alternative monitoring procedure for pretreatment, the POTW user may measure and limit oil and grease to the levels shown in Section 5.C in iteu of measuring and regulating total toxic organics (TTO). CORPORATE ACKNOWLEDGEMENT (Optional) STATE OF ARKANSAS COUNTY OF MISSISSIPPI Before me, the undersigned authority, on this day personally appeared of a corporation, known to me to be the person whose name is subscribed to the foregoing instrument(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation. Given under my hand and seal of office on this		Die Cleaning Measured Concentrations			+	-	0.340		<6		<0	.005	
A. CHECK ONE: CYANIDE ANALYSIS ATTACHED CYANIDE CERTIFICATION PROVIDED BELOW (September SAR Only) In accordance with \$467.03(a), based on my inquiry of the person or persons directly responsible for managing compliance with pretreatment standards, I certify that to the best of my knowledge, cyanide has not been used or generated and will not be used or generated in our processes which are regulated by the Ahaminums Forming (40 CFR 467.35) categorical perteatment standards since analyzing the first wastewater sample in January, February, or March of this calendar year, and that the results of the first analysis contained less than 0.07 mg/l cyanide. Lewis A. Tutton (Typet Jame) Date of Signature Lewis A. Tutton (Typet Jame) B. CHECK ONE: REQUIRED TOXIC ORGANIC ANALYSIS ATTACHED In accordance with \$467.03(b) & \$468.03(b), as an alternative monitoring procedure for pretreatment, the POTW user may measure and limit oil and grease to the levels shown in Section 5.C in lieu of measuring and regulating total toxic organics (TTO). **CORPORATE ACKNOWLEDGEMENT (Optional)** STATE OF ARKANSAS COUNTY OF MISSISSIPPI Before me, the undersigned authority, on this day personally appeared of a corporation, known to me to be the person whose name is subscribed to the foregoing instrument(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation. Given under my hand and seal of office on this		40CFR136 Preservation and Analytic	cal Methods Use:	⊠ Yes □	No								-
In accordance with \$467.03(a), based on my inquiry of the person or persons directly responsible for managing compliance with pretreatment standards, I certify that to the best of my knowledge, cyanide has not been used or generated and will not be used or generated in our processes which are regulated by the Aluminum Forming (40 CFR 467.53) categorical perteratment standards since analyzing the first wastewater sample in January, February, or March of this calendar year, and that the results of the first analysis contained less than 0.07 mg/l cyanide. Lewis A. Tutton (Typed Jame) Lewis A. Tutton (Typed Jame) Lewis A. Tutton (Typed Jame) Date of Signature 2/B/2orT B. CHECK ONE: REQUIRED TOXIC ORGANIC ANALYSIS ATTACHED In accordance with \$467.03(b) & \$468.03(b), as an alternative monitoring procedure for pretreatment, the POTW user may measure and limit oil and grease to the levels shown in Section 5.C in lieu of measuring and regulating total toxic organics (TTO). CORPORATE ACKNOWLEDGEMENT (Optional) STATE OF ARKANSAS COUNTY OF MISSISSIPPI Before me, the undersigned authority, on this day personally appeared of a corporation, known to me to be the person whose name is subscribed to the foregoing instrument(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation. Given under my hand and seal of office on this	(6) (ERTIFICATION											
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Notary Public in and for County, Arkansas		acknowledged to me that he executed the	on whose name is s	ubscribed to and conside	o the foregoi erations there	ng instrume in expresse	ent(s), and ed, in the capacit	y therein s	tated and	as the ac	t and d	leed of	
Notary Public in and for County, Arkansas		Given under my hand and seal of office or	n this	day	of	, 1	99						
My commission expires					in and for_								
		My commission expires											

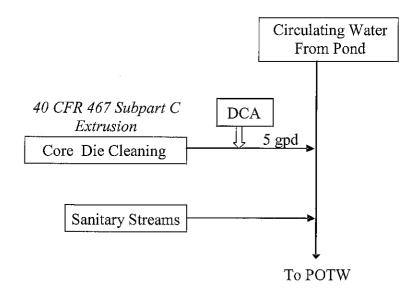
¹ Listed as daily maximum and monthly average respectively

8) GENERAL COMMENTS	(7) POLLUTION PREVENTION ACT OF 1990 [42 U.S.C. 13101 et seq.]
9) SIGNATORY REQUIREMENTS [40CFR403.12(1)] I certify under penalty of law that I have personally examined and an familiar with the information in this semi-ammal compliance report and all attachments, and that, based on my inquiry of those persons in-mediately responsible for obtaining the information contained in the report, the fleve that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Lewis A Tutton NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE Companie Environmental Managaer 248 JAMATURE Companie Environmental Managaer	recycled in an environmentally safe manner, whenever feasible; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible; and disposal or other release into the environmental should be employed only as a
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Lewis A Tutton NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE Corporate Environmental Manager OFFICIAL TITLE DATE SIGNED	those persons immediately responsible for obtaining the information contained in the report, I believe that the information is true, accurate and complete. I am aware that there are significant
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE Corporate Environmental Manager OFFICIAL TITLE DATE SIGNED	$\mathcal{A} \cdot \mathcal{A} = \mathcal{A}$
OFFICIAL TITLE DATE SIGNED	NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE SIGNATURE 2/8/7.0007
	OFFICIAL TITLE DATE SIGNED

ATTACHMENT 1

Flow Schematics

Algonquin Industries Osceola, Arkansas February 2017



Sampling Points $=> \prod$

§403.6(e) Nonregulated Streams Not Present

If a stream is not present, show NOT PRESENT or N/P. If a stream is present, the wastewater can enter the POTW but currently has no flow, show 0.0 gpd. If a stream is present but the wastewater cannot enter the POTW, show Zero Discharge or Z/D. If an unregulated stream is present but the User has decided not to declare it at this time, show N/P.

Signature of §403.12(b) Professional

I certify under penalty of law that I have personally examined and am familiar with the information in this document and that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penal ties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1.0

Plant Manager or the authorized §403.12(1) official

2/8/2017 Date

ATTACHMENT 2

Sampling and Analysis Results



ANALYTICAL REPORT

October 20, 2016



ENSAFE - Memphis

Sample Delivery Group:

L865640

Samples Received:

10/13/2016

Project Number:

0888819302/003

Description:

Osceola, AR

Report To:

Eric Tidquist

5724 Summer Trees Drive

Memphis, TN 38134

Entire Report Reviewed By: Panula d. Infocil

Pam Langford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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ONE LAB. NATIONWIDE.



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Wet Chemistry by Method 7196A	9
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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



DCA L865640-01 GW			Collected by Eric Tidquist	Collected date/time 10/12/16 14:00	Received date/time 10/13/16 09:00
Method Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG918362	1	10/20/16 07:53	10/20/16 10:53	CCE
Wet Chemistry by Method 1664A	WG918080	1	10/18/16 07:54	10/18/16 13:50	SHG
Wet Chemistry by Method 7196A	WG916868	1	10/13/16 12:07	10/13/16 12:07	JJL
Wet Chemistry by Method 9012B	WG918146	1	10/18/16 14:57	10/20/16 13:09	DR
POND L865640-02 GW			Collected by Eric Tidquist	Collected date/time 10/12/16 13:45	Received date/time 10/13/16 09:00
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Metals (ICP) by Method 6010B	WG918362	1	10/20/16 07:53	10/20/16 10:56	CCE
Wet Chemistry by Method 1664A	WG918080	1	10/18/16 07:54	10/18/16 13:50	SHG
Wet Chemistry by Method 7196A	WG916868	1	10/13/16 12:08	10/13/16 12:08	JJL
Wet Chemistry by Method 9012B	WG918146	1	10/18/16 14:57	10/20/16 13:10	DR
			Collected by	Collected date/time	Received date/time
POND L865640-03 GW			Eric Tidquist	10/12/16 13:45	10/13/16 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG918362	1	10/20/16 07:53	10/20/16 10:59	CCE

























All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.





















Pam Langford
Technical Service Representative

Sample Handling and Receiving

Panula a. Inford

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

ESC Sample ID

Project Sample ID

Method

L865640-01

DCA

1664A

DCA

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Collected date/time: 10/12/16 14:00

Wet Chemistry by Method 1664A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Oil & Grease (Hexane Extr)	ND		6.67	1	10/18/2016 13:50	WG918080	







	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Chromium, Hexavalent	ND		0.0100	1	10/13/2016 12:07	WG916868	



Cn



	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/I		date / time		
Cyanide	ND		0.00500	1	10/20/2016 13:09	WG918146	



Qc



metals (let / by method do lob											
	Result	Qualifier	RDL	Dilution	Analysis	Batch					
Analyte	mg/l		mg/l		date / time						
Zinc	0.340		0.0500	1	10/20/2016 10:53	WG918362					







POND

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.



Collected date/time: 10/12/16 13:45

Wet Chemistry by Method 1664A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Oil & Grease (Hexane Extr)	ND		6.25	1	10/18/2016 13:50	WG918080	





	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chromium, Hexavalent	ND		0.0100	1	10/13/2016 12:08	WG916868



Wet Chemistry by Method 9012B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	10/20/2016 13:10	WG918146



Qc

Cn

Metals (ICP) by Method 6010B

Anna construction () and () and ()							
1	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/I		mg/l		date / time		
Zinc	ND		0.0500	1	10/20/2016 10:56	WG918362	





POND

SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.



Collected date/time: 10/12/16 13:45

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Copper	0.0111		0.0100	1	10/20/2016 10:59	WG918362	
Lead	ND		0.00500	1	10/20/2016 10:59	WG918362	
Nickel	ND		0.0100	1	10/20/2016 10:59	WG918362	



















QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Wet Chemistry by Method 1664A

Method Blank (MB)

(MB) R3171329-1 10/18/16	13:46			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Oil & Grease (Hexane Extr)	U		1.16	5.00









(LCS) R31/1329-2 10/18/16	13:47 • (LCSD)	R31/1329-3 1	3/18/16 13:4/							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Oil & Grease (Hexane Extr)	40.0	41.7	41.8	104	105	78.0-114			0.240	20













QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

RPD Limits %

20

L865640-01,02

Wet Chemistry by Method 7196A

Method Blank (MB)

(MB) R3170317-1 10/13/1	6 12:06			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/I		mg/l	mg/l
Chromium, Hexavalent	U		0.00300	0.0100









(OS) L865640-02 10/13	8/16 12:08 • (DUP) F	R3170317-4 10	0/13/16 12:0	8		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chromium, Hexavalent	ND	ND	1	0.000		20







(LCS) R3170317-2 10/13/	/16 12:06 • (LCSD)	R3170317-3 1	10/13/16 12:06							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Chromium, Hexavalent	0.600	0.618	0.640	103	107	80.0-120			3.00	20

0.448







L865640-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

0.428

(OS) L865640-02 10/13/16	12:08 • (MS) R3	31/031/-5 10/13	3/16 12:08 • (MS	SD) R31/031/-6	10/13/16 12:08						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%

86.0

90.0

0.500

Chromium, Hexavalent

ND

85.0-115

5.00

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L865640-01,02

Method Blank (MB)

Wet Chemistry by Method 9012B

(MB) R3172061-1 10/20/16 12:56 MB Result MB RDL MB Qualifier MB MDL Analyte mg/l mg/l mq/I Cyanide U 0.00180 0.00500









(OS) L865640-02 10/20/16 13:10 • (DUP) R3172061-4 10/20/16 13:11

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Cyanide	ND	ND	1	0.000		20









(OS) L865993-02 10/20/16 13:25 • (DUP) R3172061-7 10/20/16 13:26

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Cyanide	ND	ND	1	0.000		20







Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3172061-2 10/20/16 12:57 • (LCSD) R3172061-3 10/20/16 12:58

(200)	Spike Amount	i and the second second	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.0956	0.0995	96.0	100	85.0-115			4.00	20

L865682-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L865682-02 10/20/16 13:14 • (MS) R3172061-5 10/20/16 13:15 • (MSD) R3172061-6 10/20/16 13:17

(/	8 6	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/I	mg/l	%	%		%			%	%
Cyanide	0.200	ND	0.204	0.163	102	82.0	1	75.0-125	E	J3	22.0	20

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L865640-01,02,03

Method Blank (MB)

(MB) R3172042-1 10/20/16 10:35

Metals (ICP) by Method 6010B

	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Copper	U		0.0053	0.0100	
Lead	U		0.0019	0.00500	
Nickel	U		0.0049	0.0100	
Zinc	U		0.0059	0.0500	









Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3172042-2 10/20/16 10:38 • (LCSD) R3172042-3 10/20/16 10:40

		,									
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%	
Copper	1.00	1.01	1.02	101	102	80-120			0	20	
Lead	1.00	1.02	1.02	102	102	80-120			0	20	
Nickel	1.00	1.02	1.02	102	102	80-120			0	20	
Zinc	1.00	1.01	1.01	101	101	80-120			0	20	









L866594-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L866594-02 10/20/16 10:43 • (MS) R3172042-5 10/20/16 10:48 • (MSD) R3172042-6 10/20/16 10:50

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Copper	1.00	ND	1.06	1.04	105	103	1	75-125			2	20
Lead	1.00	ND	1.03	1.02	103	101	1	75-125			1	20
Nickel	1.00	ND	1.05	1.03	105	103	1	75-125			2	20
Zinc	1.00	ND	0.996	0.985	99	98	1	75-125			1	20







Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.
Qualifier	Description
Qualifier	Description
Е	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J3	The associated batch QC was outside the established quality control range for precision.





















ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE. * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina 1	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
ndiana	C-TN-01	Pennsylvania	68-02979
owa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee 14	2006
.ouisiana	Al30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERTO086	Wyoming	A2LA
Nebraska	NE-OS-15-05	10 Jan - 1980 -	

Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA	100789	
A2L·A - ISO 170255	1461.02	DOD	1461.01	
Canada	1461.01	USDA	S-67674	
EPA-Crypto	TN00003			

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ¹⁰ Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.





















ENSAFE - Memphis			Billing Info	ling Information & Quote Number:						Analysis	/ Conta	iner / Preservative		Chain of Custody	Page of
5724 Summer Trees Drive Memphis, TN 38134			5724 Su	Attn: Buyer 5724 Summer Trees Drive Memphis, TN 38134										*I	SCOLLENNICIE
Report to: Eric Tidquist			Email To:	Email To: etidquist@ensafe.com										YOUR LAE 12065 Lebanon Rd Mount Juliet, TN 37	3 ОГ СНОІСІ
Project Description: Osceola, AR			City/State Collected: Oscele, AR										Phone: 615-758-58! Phone: 800-767-58! Fax: 615-758-5859	58 59 Dektory	
Phone: 901-372-7962 Fax: 901-386-4628	Client Project	19302	/003	Lab Project #			Н	Ş	63					L# 18(5 J094	640
Collected by (print): Eric Tidquist Collected by (signature):	Site/Facility I)#		P.O. #			M-dm	-NoPre	PE-HN	Id HCI	E-HNC			Acctnum: ENS	
Immediately Packed on Ice N Y	Same Next D	Lab MUST Be Day Day Day	200%	Email?	Results Needed _No XYes NoYes	No.	250mlHDPEAmb-NaOH	250mlHDPE-NoPres	Metals 250mlHDPE-HNO3	OGHEX 1L-CIr-Add HCI	P 250mlHDPE-HN03			Template: T11 Prelogin: P57 : TSR: 633 - Pam PB:	2190 Langford
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CN 2	CR6	Meta	OGH	ZNICP			Shipped Via: F €	dEX Ground
DCA	6	₩-	NA	10/12/16	14:00	4	X	Х		Х	X			Rem./Contaminant	
LOND	G	GW.	NA	10/12/16	13:45	4	Х	Х		х	х				-01
LOND	6	-G₩	N/A	10/12/16	13:45	1			х						83
					<u> </u>										
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													THE STATE OF		
* Matrix: SS - Soil GW - Groundwater	WW - WasteWa	ater DW - Dri	nking Water	OT - Other											
Remarks:										рН _		Temp	190000000	GG 8118 949	Υ
Relinquished by : (Signature) Date: O 1 Relinquished by : (Signature) Date:		. 1	Time: Received by: (Signature)			A.)			s return	Other UPS Courier U		Hold # Condition; (lab use only)		
			ime: Re	eceived by: (Signat	ure)	-			Temp: °C Bottles Received: 3.1						
Relinquished by : (Signature)		Date:	Ti	ime: Re	ceived for lab by:	(Signat	ture)			Date:		Time:qw	pH Ch	necked: NCF:	N NA

Input Values For Determining Effluent Guideline Limits for REA /Algonquin Industries Division for Aluminum Die Cleaning Wastestream

To calculate concentrations: Die Cleaning Flow Rate, gpd	5
To calculate cumulative limit:	
Beginning date of period of	
semiannual report End date of period of	8/31/2016
semiannual report	2/28/2017
Date Sample taken:	10/12/2016
Days from beginning of	
semi annual report through	
sample date	42

Summary of Calculated Equivalent Concentration Limits for Caustic Soda Rinse of Extrusion Die Discharge, mg/L							
Parameter	Daily Maximum	Monthly Average					
Chromium	9	3.7					
Cyanide	6	2.4					
Zinc	30	12.8					
TTOal *	NA	NA					
Oil and Grease	1094	534.6					

^{*} Oil and Grease limitations are to be used in place of TTO limitations

avtruded alum	aincura off lla - sa	na disaffara i d	00/	
extruded alum	ninum off lb = p producti		0% scrap =	4400/
2040				110%
2016	Extrude	luction		
	Operational days prior to sample date	Aluminum Produced	Aluminum passed through (prorated for month)	Calculated Daily Production
		(lbs)	(off lbs)	(off-lb/day)
Sep-16 Oct-16	30 12	69,095 71,399	76,005 30,402	2,533 2,534
Nov-16	NA	13,819	NA	NA
Dec-16	NA	0	NA	NA
Jan-17	. NA	0	NA	NA
Feb-17	NA	0	NA	NA
Mar-17	NA	0	NA	NA
Apr-17	NA	0	NA	NA
May-17	NA	0	NA	NA
Jun-17	NA	0	NA	NA
Jul-17	NA	0	NA	NA
Aug-17	NA	0	NA	NA
Totals	42	154,313	106,407	2,533

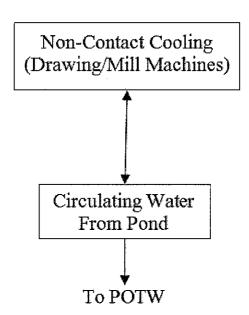
Semi-Annual Wastewater Monitoring Report Wastewater Process Description

Please note that the final industrial wastewater discharge from Rea – Algonquin Industries Division occurred on October 30, 2016 and production at the facility permanently ceased on November 6, 2016. The information presented below is included to provide background related to the nature of industrial wastewater generated by the facility prior to October 30, 2016.

At its Osceola, Arkansas plant, Rea – Algonquin Industries Division manufactured specialty aluminum and copper wire products.

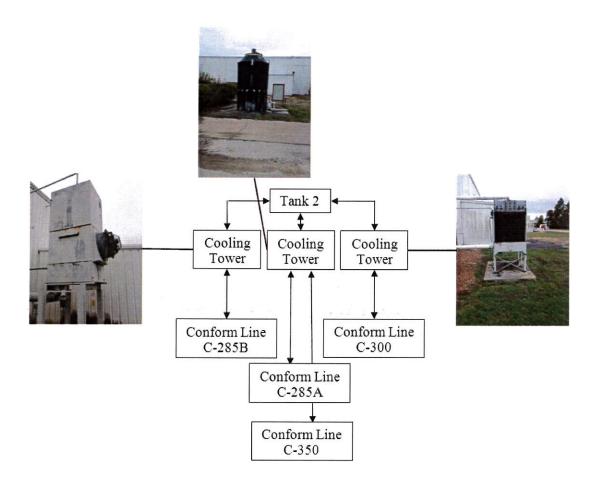
Drawing and Milling

Non-contact cooling water was used in the drawing and milling processes at the facility. The non-contact cooling water was recirculated to the pond. It was possible for the pond to discharge to the City of Osceola Publicly Owned Treatment Works (POTW), but this was typically only necessary when the pond or associated recirculation equipment required maintenance.



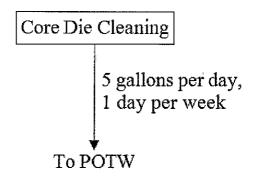
Copper and Aluminum Conform Processes

The copper and aluminum conform lines (C-285A, C-285B, C-300, and C-350) generated wastewater, which recirculated between the conform process equipment and three cooling towers as shown below. Each wastewater line could be pumped into Tank 2, which was periodically pumped out by a waste contractor who shipped the wastewater offsite. Wastewater from the copper and aluminum conform lines was not discharged to the City of Osceola POTW.



Die Cleaning Process

Dies were periodically soaked in caustic solution for cleaning. When they were done soaking, they were rinsed off using clean tap water over a sink. The rinse water was discharged to the City of Osceola POTW. The estimated discharge flow rate was five gallons per die cleaning event, and the estimated frequency of die cleaning events was once per week.



Other Wastewater Streams

Other wastewater streams that discharged to the City of Osceola POTW included:

- Sanitary waste;
- Air compressor condensate blowdown; and
- Water from the steam clean forklift wash area