From:	Jeff Wages <jwages@syrgis.com></jwages@syrgis.com>
Sent:	Tuesday, October 09, 2012 10:46 AM
То:	Torrence, Rufus
Cc:	Henderson, Katie; JCummins@syrgis.com
Subject:	RE: AFIN 54-00429 AR0043389 ARP001013 Syrgis
	Performance Initiators August 2012 Semi-Annual
	ReportRepeated Zinc Analysis Due
Attachments:	Syrgis Wastewater 1210.pdf

Mr. Torrence,

Please find attached the lab report for the composited waste water sample that was analyzed for zinc. Also find attached a calculation sheet indicating how the composite sample percentages were determined and the procedure used for compositing the samples. These documents are being mailed to you.

Please let me know if you require additional information.

Sincerely, Jeff Wages



Syrgis Performance Initiators, Inc.

Jeff Wages Regulatory Manager 870.572.2935 x307 http://www.syrgispi.com/

A United Initiators, Inc. Company www.united-initiators.com

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From: Torrence, Rufus [mailto:TORRENCE@adeq.state.ar.us]
Sent: Thursday, September 13, 2012 1:40 PM
To: Jeff Wages
Cc: Henderson, Katie
Subject: FW: AFIN 54-00429 AR0043389 ARP001013 Syrgis Performance Initiators August 2012 Semi-Annual Report..Repeated Zinc Analysis Due



September 11, 2012

Mr. Jeff Wages Syrgis Performance Initiators, Inc. 334 Phillips 311 Road Helena, AR 72342-9033

Re: Syrgis 2012 August Semi-Annual Pretreatment Report (Tracking Number: ARP001013 AFIN: 54-00429 City of Helena NPDES No.: AR0043389)

Dear Mr. Wages:

The Department has reviewed Syrgis' August 2012 semi-annual report. In accordance with the terms in the Department's letter dated August 6, 2010, Syrgis <u>appears</u> to be **non-compliant** with the calculated limit for zinc. The calculated limit for zinc is 132  $\mu$ g/l. Syrgis reported 264  $\mu$ g/l for zinc in the "effluent".

Referring to the Department's letter dated August 12, 2011, find:

Syrgis must sample only the process wastewater to verify compliance with the limits in 40 CFR 414.85 (Sub Part H). In accordance with 40 CFR 414.111(b), since Syrgis does not have a lead or zinc bearing waste stream listed in Appendix A, Syrgis must comply with the lead and zinc limits shown in the Department letter dated August 6, 2010. To verify compliance Syrgis must sample the process wastewater before it enters the pond and commingles with the stormwater. Syrgis' process wastewater enters the pond in three different lines. Syrgis must sample each line and may take grab samples (in lieu of flow proportional sampling). Syrgis may composite the three samples in proportion to flow and submit only the one composited sample to the lab for analysis.

Referring to the telephone conversation on March 6, 2012 (see below), Syrgis sampled the pond effluent for the February 2012 report. The ETC analysis dated 7-9-2012 indicated after the heading, "Sample ID:", the term "Effluent". The ETC analysis dated 7-30-2012 indicated that the "City Water" had only 62.8  $\mu$ g/l of zinc. Based on these two observations, Syrgis appears to have sampled the pond effluent again. However, because the submitted results indicated a "violation", in accordance with 40 CFR 403.12(g)(2), Syrgis must resample the process water to verify compliance. Please be careful (1) to sample the three process lines and (2) to composite the sample in proportion to flow.

Syrgis must submit the sampling analysis results to ADEQ along with supporting documented compositing procedure. Please submit the calculation sheet which shows how Syrgis determined the percentages. This may be a handwritten page, an Excel spreadsheet or a formal tabulated form. In either case, the submitted item must clearly show how Syrgis determined the percentages.

Please submit the lab results and the calculation information within thirty days of receiving this letter/email or by **November 1, 2012** (whichever comes first). In the future, please submit the calculation information with each semi-annual report.

If Syrgis has concerns or requires more details, please contact Rufus Torrence at (501) 682-0626 or torrence@adeq.state.ar.us.

Sincerely,

Rufus J. Torrence, Water Division Engineer

Encl: ADEQ Letter dated March 6, 2012 and e-mail dated March 06, 2012 2:39 pm

From: Torrence, Rufus
Sent: Tuesday, March 06, 2012 2:39 PM
To: Jeff Wages (jwages@syrgis.com)
Cc: Henderson, Katie; Fuller, Kim
Subject: RE: AFIN 54-00429 AR0043389 ARP001013 Syrgis Performance Initiators: Process Water Analysis (Zinc)

Jeff,

In reference to our telephone conversation today, Syrgis sampled the pond effluent for the February 2012 report. Therefore, no calculation sheet is available for the February report.

Syrgis has agreed to sample the three process lines for future reports. Syrgis next report is due by August 31, 2012.

Rufus

From: Torrence, Rufus Sent: Tuesday, March 06, 2012 1:41 PM To: Jeff Wages (jwages@syrgis.com) Cc: Henderson, Katie **Subject:** AFIN 54-00429 AR0043389 ARP001013 Syrgis Performance Initiators: Process Water Analysis (Zinc)



March 6, 2012

Mr. Jeff Wages Syrgis Performance Initiators, Inc. 334 Phillips 311 Road Helena, AR 72342-9033

Re: Syrgis 2012 February Semi-Annual Pretreatment Report (Tracking Number: ARP001013 AFIN: 54-00429 City of Helena NPDES No.: AR0043389)

Dear Mr. Wages:

The Department has reviewed Syrgis' February 2012 semi-annual report. In accordance with the terms in the Department's letter dated August 6, 2010, Syrgis <u>appears</u> to be compliant with the calculated effluent limits for lead and zinc. The calculated limit for lead is 57.6  $\mu$ g/l and for zinc is 132  $\mu$ g/l. Syrgis reported 1.24  $\mu$ g/l for lead and 45.7  $\mu$ g/l for zinc in the effluent.

Referring to the Department's letter dated August 12, 2011, find:

Syrgis must sample only the process wastewater to verify compliance with the limits in 40 CFR 414.85 (Sub Part H). In accordance with 40 CFR 414.111(b), since Syrgis does not have a lead or zinc bearing waste stream listed in Appendix A, Syrgis must comply with the lead and zinc limits shown in the Department letter dated August 6, 2010. To verify compliance Syrgis must sample the process wastewater before it enters the pond and commingles with the stormwater. Syrgis' process wastewater enters the pond in three different lines. Syrgis must sample each line and may take grab samples (in lieu of flow proportional sampling). Syrgis may composite the three samples in proportion to flow and submit only the one composite sample to the lab for analysis.

The Department cannot verify that the submitted lead and zinc analyses were composited samples. Please submit the calculation sheet which shows how Syrgis determined the percentages. This may be a handwritten page, an Excel spreadsheet or a formal tabulated

form. In either case, the submitted item must clearly show how Syrgis determined the percentages.

Please submit the calculation information within thirty days of receiving this letter/email or by **April 20, 2012** (whichever comes first). In the future, please submit the calculation information with each semi-annual report.

If Syrgis has concerns or requires more details, please contact Rufus Torrence at (501) 682-0626 or torrence@adeq.state.ar.us.

Sincerely,

Rufus J. Torrence, Water Division Engineer

Encl: ADEQ Letters dated 9-4-2009, 8-6-2010 and 8-12-2011

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY 5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK / ARKANSAS 72118-5317 / TELEPHONE 501-682-0744 / FAX 501-682-0880 www.adeg.state.oc.up



## Syrgis Performance Initiators, Inc.

334 Phillips 311 Road Industrial Park Road Helena, Arkansas 72342-9033

Customer Service: (800) 786-6722 Customer Service Fax: (800) 987-0845 Phone: (870) 572-2935 Fax: (870) 572-1416

October 9, 2012

Mr. Rufus J. Torrence ADEQ NPDES Pretreatment Engineer Arkansas Department of Environmental Quality Water Division 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

Dear Mr. Torrence:

Please find attached the lab results for Syrgis Performance Initiators composited waste water sample. Also find attached a calculation sheet indicating how the composite sample percentages were determined and the procedure used for compositing the samples.

Please contact me by phone at 870.572.2935 ext. 307 or by e-mail at jwages@syrgis.com if you have any questions or require additional information.

Sincerely,

2166 Wagoe

Jeff Wages Regulatory Manager

Enclosures

cc: Jon Cummins - Syrgis





## Determining percent of each process for composite sample

The amount/percent of waste water from each of the three Syrgis process water samples to be contributed to the composite sample of all three processes was determined by dividing the average daily discharge of each process by the total average daily discharge of the entire facility.

		2012		
Composite sampl analysis	e by percent o	f process was	tewater for zinc a	nd lead
Process	BPO	MEKP	MIBKP	Total
Average GPD	28,224	28,224 16,727		45,086
% of Total	0.626	0.371	0.003	
Water Usage	from 1/17/	2012		
and the second s	from 1/5/		to 6/6/2012	
Average GPD		45,086		
	BPO proce	ess discharge		
	28,224/45		62.6%	
	MEKP pro	cess discharge	2	
	16,727/45		37.1%	
	MIBKP pro	cess discharg	0	
	135/45,08		0.3%	

## **Compositing Procedure**

Three sample containers are used to collect 500 milliliters of waste water from each of the three Syrgis processes. One container is used for each separate process. Each container is labeled with the process name from which it was taken, i.e., BPO, MIBKP, and MEKP.

The three waste water samples are taken to the R&D Lab. 313 milliliters of the BPO process waste water sample are placed into the composite sample container. 185.5 milliliters of the MEKP process waste water sample is placed into the composite sample container. 1.5 milliliters of the MIBKP waste water sample is placed into the composite sample container. The composite sample container is sealed and shipped to Syrgis' analytical service provider for analysis.



Environmental Testing & Consulting, Inc.

Memphis, Tennessee 38133 (901) 213-2400 'A Laboratory Management Partner' Fax (901) 213-2440

10/5/2012

Rineco Analytical Services Ms. Mia Dixon P O Box 729 Benton, AR, 72018

Ref: Analytical Testing ETC Report Number: 12-277-0208 Client Project Description: Syrgis Performance Initiators, Inc.

2790 Whitten Road

Dear Ms. Mia Dixon:

Environmental Testing and Consulting, Inc. received sample(s) on 10/3/2012 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Rendell H. Thomas

Randy Thomas Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama Mississippi	#40750	Louisiana California	#04015 #09267CA		#460181 #415	Texas Oklahoma	#T104704180-11-6 #9311	Arkansas	#88-0650
Kentucky	#90047	Tananaira	-			Oktanoma	#9911	Virginia	#00106
Refferency	#30047	Tennessee	#TN02027	EPA	#TN00012	Kentucky UST	#41	Kansas	#E-10396



		mance Initiators, Inc.	
	Information :		
			Report Date : 10/5/2012
	REPORT OF ANAL	YSIS	Received : 10/3/2012
- 7			Matrix: Aqueous
	r 3		REPORT OF ANALYSIS

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Total Zinc	30.6	µg/L	25.0	5	10/04/12 16:18	RQE	EPA-200.8

and to be

\*

MQL

		Laboratory Managemei	nt Partner"	
	Cooler	Receipt Form	ı	
Customer Number: 05	424			
	neco Analytical Services			
Report Number: 12-	-277-0208 Shinni	mar Madhaad		
		ng Method		janina sa
Fed Ex     UPS	US Postal Clien	t 🔿 Lab		Other :
Shipping container/cool	er uncompromised?	• Yes	🔿 No	
Custody seals intact on	shipping container/cooler?	Y 🔿 Yes	() No	Not Required
Custody seals intact on	sample bottles?	O Yes	◯ No	Not Required
Chain of Custody (COC	) present?	• Yes	O No	
COC agrees with sample	le label(s)?	• Yes	 () No	
COC properly complete	d	• Yes	◯ No	······································
Samples in proper conta	ainers?	Yes	🔿 No	···· ··· ··· ··· ··· ··· ··· ··· ···
Sample containers intac	et?	Yes	🔿 No	
Sufficient sample volum	e for indicated test(s)?	• Yes	🔿 No	-
All samples received wit	hin holding time?	Yes	🔿 No	
Cooler temperature in co		• Yes	🔿 No	
Cooler/Samples arrived Samples were considere process had begun.	at the laboratory on ice. ad acceptable as cooling	• Yes	🔿 No	
Water - Sample containe	ers properly preserved	• Yes	◯ No	○ N/A
Water - VOA vials free o	f headspace	) Yes	0 No	• N/A
Trip Blanks received with	ו VOAs	O Yes	O No	• N/A
Soil VOA method 5035 -	- compliance criteria met	O Yes	() No	• N/A
High concentration co	ontainer (48 hr)	Low co	oncentration EnC	Core samplers (48 hr)
High concentration pr	e-weighed (methanol -14 c			vials (Sod Bis -14 d)
Special precautions or in	structions included?	) Yes	No	
Comments:				

Any regulatory non-compliance issues will be recorded on non-compliance report.

~

~

Signature:	Brooke Shoup
Date & Time:	10/03/2012 09:54:45



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Environmental Testing & Consulting, Inc.

Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440 2790 Whitten Road



12-227 0208

Syruss Performance Initiators, Inc.

Company Name Rineco Analytical Services			all a second sec			Telephone (870) 572-2935		RUSH	ICE	
<b>Site Name</b> Syrgis - Wastewater		Project Comment Kit 2 of /2						FIDNL	Imber	
<b>Project</b> Rineco - Syrgis	**************************************	Project Number		PO Number						
Project Manager / Co Mr Jeff WagesSyrgia Perfe			Į	E-mail عىبار	-963	@ <del>5</del>	gis,co	m		
Sample ID	Container Type	Collected Date Time	/ # Cont	Preser	vative	Grab / Comp	Matrix	A	nalyses	
Process waste Water 3	Plastic - Pint	18-2-2012 11:30 AN	1	HN03 - N	itric Acid		<sup>7</sup> Aqueous	2	00.8 - Zn	l

Sampled By	Method of Shipment	Blank / Cooler Remark	(S . A . I u. h. l. )
Relinquished By (sign)	ted EK	Temperature NA-3 Pr	ocesses Waste water
Arth Wager	Date / Time 18-2-20/2 11:45 M	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received to Lab (sign)	Date/Time
		1/1	10-12-01.5