



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,

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 sample by percent of process wastewater for zinc and lead analysis				
Process	BPO	MEKP	MIBKP	Total
Average GPD	28,224	16,727	135.26	45,086
% of Total	0.626	0.371	0.003	
Water Usage	from 1/5/2012		to 6/6/2012	
Average GPD	45,086			
	BPO process discharge			
	28,224/45,086		62.6%	
	MEKP process discharge			
	16,727/45,086		37.1%	
	MIBKP process discharge			
	135/45,086		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.

www.etcmemphis.com

2790 Whitten Road

Memphis, Tennessee 38133

(901) 213-2400

Fax (901) 213-2440

"A Laboratory Management Partner"

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.

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 as-received 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,

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 #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #09267CA	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	Kansas #E-10396





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05424

Rineco Analytical Services

Ms. Mia Dixon

P O Box 729

Benton, AR 72018

Project Syrgis Performance Initiators, Inc.

Information :

Report Date : 10/5/2012

Report Number : **12-277-0208**

REPORT OF ANALYSIS

Received : 10/3/2012

Lab No : **98746**

Matrix: **Aqueous**

Sample ID : **Process Waste Water 3**

Sampled: **10/2/2012 11:30**

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

Qualifiers/ Definitions

* Outside QC limit
MQL Method Quantitation Limit

DF Dilution Factor



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Cooler Receipt Form

Customer Number: **05424**

Customer Name: **Rineco Analytical Services**

Report Number: **12-277-0208**

Shipping Method

Fed Ex UPS US Postal Client Lab Courier Other : _____

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 - compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

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

Signature:

Date & Time:



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Rineco Analytical Services
Svris Performance Indicators, Inc.

12-277-0208
05:24
2012-10-03
09:53:53

Company Name Rineco Analytical Services		Customer Number 05424		Telephone (870) 572-2935		RUSH <input checked="" type="checkbox"/>	ICE <input type="checkbox"/>
Site Name SyrGIS - Wastewater		Project Comment Kit 2 of 2				FID Number	
Project Rineco - Syrgis		Project Number		PO Number			
Project Manager / Contact Mr. Jeff Wages Syrgis Performance				E-mail jwages@syrgis.com			
Sample ID	Container Type	Collected Date / Time	# Cont	Preservative	Grab / Comp	Matrix	Analyses
Process Waste Water 3	Plastic - Pint	10-2-2012 11:50 AM	1	HNO3 - Nitric Acid	Comp	Aqueous	200.8 - Zn

Sampled By Jeff Wages	Method of Shipment Fed Ex	Blank / Cooler Temperature	Remarks N/A - 3 Processes Waste water
Relinquished By (sign) Jeff Wages	Date / Time 10-2-2012 11:45 AM	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By Lab (sign) B. H. [Signature]	Date / Time 10-3-12 09:03

FROM:

Syrgis Performance Initiators, Inc.
Attn: Mr. Jeff Wages
334 Phillips 311 Road
Helena, AR 72342-903317



SHIP TO:

Arkansas Dept. of Environmental Quality
Water Division
Attn: Mr. Rufus Torrence
5301 Northshore Drive
North Little Rock, AR 72118-5317

