Loethen, Katie

From: Loethen, Katie
Sent: Monday, June 28, 2021 3:38 PM
To: 'james.house@kohler.com'
Cc: 'sheridan@windstream.net'; McWilliams, Carrie; Sears, Jessica; Jain, Anmol
Subject: AR0034347_Kohler ARP000021 January 2021 semi annual Pretreatment report_ 20210628

James,

Kohler's 2018, 2019, and 2020 semi-annual Pretreatment reports were received, reviewed, and deemed complete. Kohler is in compliance with the reporting requirements in 40 CFR 403.12(e) as well as the Metal Finishing standards in 40 CFR 433.15. No further action is deemed necessary at this time.

Thank you for the complete reports,

Katie Loethen | Wastewater Engineering Intern
Division of Environmental Quality | Office of Water Quality
Permits Branch
5301 Northshore Drive | North Little Rock, AR 72118
t: 501.683.3001 | e: Katie.loethen@adeq.state.ar.us

Kohler Co., 415 S. Oklahoma St., Sheridan, Arkansas 72150 870-942-2111 Fax 870-942-5358 www.kohler.com

July 13, 2018

KOHLER.

Guy Lester
NPDES Pretreatment Engineer
Arkansas Department of Environmental Quality
5301 Northshore Drive, North Little Rock, AR 72118

Re: **SEMI-ANNUAL REPORT 1St HALF 2018**

Dear Mr. Lester

In accordance with 40CFR403.12 (e) we are submitting semi-annual reports for the months January 1, 2018 through June 30, 2018. Attached with this report is the TTO/CN analysis for this period.
Please contact me at 870-917-6215 should you have any questions.

Sincerely,

James House
Safety/Environmental Specialist

Attachments: TTO/CN Analysis for the 1st half of 2018

Cc:

Erika Strand, Global Faucets Program Coordinator
Sheridan Waterworks
File

SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR433

Use of this form is not an EPA/ADEQ requirement. Attn: Water Div/NPDES Pretreatment

(1) IDENTIFYING INFORMATION

A. LEGAL NAME & MAILING ADDRESS	B. FACILITY & LOCATION ADDRESS
KOHLER Company Sheridan, AR 72150	415 S. Oklahoma St. Sheridan, AR 72150
C. FACILITY CONTACT: JAMES HOUSE	TELEPHONE NUMBER: 870-942-2111

(2) REPORTING PERIOD-- FISCAL YEAR From January 1 to December 31 (Both Semi-Annual Reports must cover Fiscal Year)

A. MONTHS WHICH REPORTS ARE DUE	B. PERIOD COVERED BY THIS REPORT
JANUARY & JULY	FROM: January, 2018 TO: June 30, 2018

(3) DESCRIPTION OF OPERATION

A. REGULATED PROCESSES

CORE PROCESS(ES)

CHECK EACH APPLICABLE BLOCK

- [x] Electroplating
- [x] Electroless Plating
- [ ] Anodizing
- [ ] Coating
- [ ] Chemical Etching and Milling
- [ ] Printed Circuit Board Manufacture

ANCILLARY PROCESS(ES)*

LIST BELOW EACH PROCESS USED IN THE FACILITY

BRAZING

ACID/ALKALI CLEANING

*SEE 40CFR.10(a) FOR 40 DIFFERENT OPERATIONS

B. CHANGES: SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.

C. Number of Regular Employees at this Facility	258	D. [Reserved]

40CFR SEMI-ANNUAL REPORT CON'D FACILITY NAME: KOHLER

(4) FLOW MEASUREMENT

INDIVIDUAL & TOTAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY

Process	Average	Maximum	Type of Discharge
Regulated (Core & Anc)	64,296	218,800	**POTW Continuous**
Regulated (Cyanide)	0	0	**N/A**
§403.6(e) Unregulated*	0	0	**N/A**
§403.6(e) Dilute	0	0	**N/A**
Cooling Water	0	0	**N/A**
Sanitary	37,321	85,732	**POTW Continuous**
Total Flow to POTW	101,417	345,123	**********

*"Unregulated" has a precise legal meaning; see 40CFR403.6(e).

(5) MEASUREMENT OF POLLUTANTS

A. TYPE OF TREATMENT SYSTEM

CHECK EACH APPLICABLE BLOCK

- [x] Neutralization
- [x] Chemical Precipitation and Sedimentation
- [x] Chromium Reduction
- [ ] Cyanide Destruction
- [ ] Other
- [ ] None

B. COMMENTS OF TREATMENT SYSTEM

Treated water samples are sent weekly to commercial lab for analysis. In-house testing performed twice per shift. Results of in-house tests are hand delivered to city each Monday. Monthly DMR is also submitted.

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS OF THE EFFLUENT FROM ALL REGULATED PROCESSES-- CORE& ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD IN THE SPACE PROVIDED BELOW. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

Pollutant(mg/l)	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN*	TTO*
Max for 1 day	0.69	2.77	3.38	0.69	3.98	0.43	2.61	MDL	2.13
Monthly Ave	0.26	1.71	2.07	0.43	2.38	0.24	1.48	MDL	--
Max Measured	0.005	0.72	0.82	0.015	1.81	0.02	0.2	0.02	0.00
Ave Measured	0.005	0.28	0.17	0.015	0.33	0.02	0.03	0.02	0.00

*PROVIDE THE CONCENTRATION HERE IF NO CERTIFICATION IS PROVIDED IN SECTION 6 BELOW OR MARK N/A IF A CERTIFICATION IS PROVIDED.

Sample Location #001 AFTER TREATMENT/BEFORE DISCHARGE

Sample Type (Grab or Composite) COMPOSITE

Number of Samples and Frequency Collected 1/WEEK - (IN-HOUSE 2/SHIFT)

40CFR136 Preservation and Analytical Methods Use: [x] Yes No

40CFR433 SEMI-ANNUAL REPORT CON'D FACILITY NAME: KOHLER

(6) CERTIFICATION

A. CYANIDE CERTIFICATION

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 in our processes which are regulated by the Metal Finishing (40CFR 433) categorical pretreatment standards since the filing of the last semi-annual compliance report.

(Typed Name)

_____

(Corporate Officer or authorized representative)

Date of Signature _____

B. CHECK ONE: [X] §433.11(e)TOXIC ORGANIC ANALYSIS ATTACHED [ ] §433.12(a)TTO CERTIFICATION

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the waste waters has occurred since filing of the last semi-annual compliance report. I further certify that this facility is implementing the toxic organic management plan submitted to Arkansas Department of Pollution Control and Ecology.

N/A

(Typed Name)

_____

(Corporate Officer or authorized representative)

Date of Signature _____

CORPORATE ACKNOWLEDGEMENT (Optional)

STATE OF ARKANSAS)
COUNTY OF _____)

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 instruments(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 _____ 2018

_____

Notary Public in and for _____
County, Arkansas

My commission expires _____.

40CFR433 SEMI-ANNUAL REPORT CON'D FACILITY NAME: KOHLER

(7) POLLUTION PREVENTION ACT OF 1990 [42 U.S.C. 13101 et seq.]

§6602 [42 U.S.C. 1310] Findings and Policy para (b) Policy - The congress hereby declares it to be the national policy of the United States that pollution should be prevented or reduced at the source whenever feasible; pollution that cannot be prevented should be 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 environment should be employed only as a last resort and should be conducted in an environmentally safe manner.

The User may list any new or ongoing Pollution Prevention practices:

(8) GENERAL COMMENTS

ATTACHMENTS:
TTO/CN Analysis
Semi-Annual Metals Analysis

cc: Erika Strand - KOHLER EHS
David Fitzgerald - Sheridan Waterworks
File

(9) SIGNATORY REQUIREMENTS [40CFR403.12(1)]

I certify under penalty of law that I have personally examined and am familiar with the information in this semi-annual compliance report and all attachments, and that, based on my inquiry of 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 penalties for submitting false information, including the possibility of fine and imprisonment.

William Armstrong
NAME OF CORPORATE OFFICIER OR AUTHORIZED REPRESENTATIVE

SIGNATURE

Director of Arkansas Faucet Operations
OFFICIAL TITLE

DATE SIGNED

Date	GALLONS	DATE	GALLONS	Date	GALLONS	DATE	GALLONS
1/1/18	Holiday	2/1/18	117000	3/1/18	108300	4/1/18	Sunday
1/2/18	107100	2/2/18	62500	3/2/18	65600	4/2/18	92100
1/3/18	95600	2/3/18	27600	3/3/18	51800	4/3/18	101100
1/4/18	83300	2/4/18	Sunday	3/4/18	Sunday	4/4/18	85900
1/5/18	66800	2/5/18	102300	3/5/18	112100	4/5/18	93200
1/6/18	21800	2/6/18	95800	3/6/18	113100	4/6/18	67000
1/7/18	Sunday	2/7/18	95700	3/7/18	102900	4/7/18	22700
1/8/18	97200	2/8/18	83700	3/8/18	104900	4/8/18	Sunday
1/9/18	92200	2/9/18	54000	3/9/18	51100	4/9/18	96400
1/10/18	99800	2/10/18	31300	3/10/18	32400	4/10/18	98300
1/11/18	87700	2/11/18	Sunday	3/11/18	Sunday	4/11/18	104800
1/12/18	58000	2/12/18	90800	3/12/18	82900	4/12/18	106000
1/13/18	Saturday	2/13/18	89700	3/13/18	82300	4/13/18	89300
1/14/18	Sunday	2/14/18	86200	3/14/18	98100	4/14/18	25000
1/15/18	99800	2/15/18	83600	3/15/18	73500	4/15/18	Sunday
1/16/18	48200	2/16/18	56900	3/16/18	43000	4/16/18	96100
1/17/18	78300	2/17/18	9100	3/17/18	24300	4/17/18	101200
1/18/18	74400	2/18/18	Sunday	3/18/18	Sunday	4/18/18	97700
1/19/18	66600	2/19/18	85800	3/19/18	83300	4/19/18	94000
1/20/18	25800	2/20/18	99900	3/20/18	110000	4/20/18	Inventory
1/21/18	Sunday	2/21/18	100500	3/21/18	95500	4/21/18	Saturday
1/22/18	98900	2/22/18	96500	3/22/18	87500	4/22/18	Sunday
1/23/18	87300	2/23/18	40100	3/23/18	40100	4/23/18	117000
1/24/18	93500	2/24/18	44700	3/24/18	12100	4/24/18	93100
1/25/18	93700	2/25/18	Sunday	3/25/18	Sunday	4/25/18	100900
1/26/18	52300	2/26/18	104700	3/26/18	82700	4/26/18	99700
1/27/18	45100	2/27/18	100500	3/27/18	90300	4/27/18	64200
1/28/18	Sunday	2/28/18	102600	3/28/18	92400	4/28/18	45000
1/29/18	99200			3/29/18	76700	4/29/18	Sunday
1/30/18	130600			3/30/18	Holiday	4/30/18	92800
1/31/18	80000			3/31/18	Saturday		
TOTAL	1983200		1861500		1916900		1983500
AVERAGE	79328		77563		76676		86239
MAX	130600		117000		113100		117000

DATE	GALLONS	DATE	GALLONS	DATE	GALLONS	DATE	GALLONS
5/1/18	109900	6/1/18	87300	7/1/18	Sunday	8/1/18	
5/2/18	100300	6/2/18	41500	7/2/18	115400	8/2/18	
5/3/18	94300	6/3/18	Sunday	7/3/18	86100	8/3/18	
5/4/18	41900	6/4/18	103300	7/4/18	Holiday	8/4/18	
5/5/18	36800	6/5/18	89500	7/5/18	80500	8/5/18	
5/6/18	Sunday	6/6/18	109200	7/6/18	22300	8/6/18	
5/7/18	115900	6/7/18	83200	7/7/18	3400	8/7/18	
5/8/18	94200	6/8/18	43500	7/8/18	Sunday	8/8/18	
5/9/18	89200	6/9/18	41700	7/9/18	118100	8/9/18	
5/10/18	78800	6/10/18	Sunday	7/10/18	101900	8/10/18	
5/11/18	48000	6/11/18	85500	7/11/18	99800	8/11/18	
5/12/18	34400	6/12/18	88800	7/12/18	104500	8/12/18	
5/13/18	Sunday	6/13/18	105100	7/13/18		8/13/18	
5/14/18	92100	6/14/18	101100	7/14/18		8/14/18	
5/15/18	119000	6/15/18	65800	7/15/18		8/15/18	
5/16/18	110300	6/16/18	20000	7/16/18		8/16/18	
5/17/18	98600	6/17/18	Sunday	7/17/18		8/17/18	
5/18/18	38400	6/18/18	86100	7/18/18		8/18/18	
5/19/18	39200	6/19/18	97000	7/19/18		8/19/18	
5/20/18	Sunday	6/20/18	84000	7/20/18		8/20/18	
5/21/18	90000	6/21/18	89000	7/21/18		8/21/18	
5/22/18	88300	6/22/18	53300	7/22/18		8/22/18	
5/23/18	91500	6/23/18	54700	7/23/18		8/23/18	
5/24/18	82300	6/24/18	Sunday	7/24/18		8/24/18	
5/25/18	17900	6/25/18	80300	7/25/18		8/25/18	
5/26/18	Saturday	6/26/18	91400	7/26/18		8/26/18	
5/27/18	Sunday	6/27/18	110300	7/27/18		8/27/18	
5/28/18	hoilday	6/28/18	81800	7/28/18		8/28/18	
5/29/18	114200	6/29/18	76100	7/29/18		8/29/18	
5/30/18	124700	6/30/18	51100	7/30/18		8/30/18	
5/31/18	114600			7/31/18		8/31/18	
	2064800		2020600				
	85592		77715				
	124700		110300				

DATE	GALLONS	DATE	GALLONS	DATE	GALLONS	DATE	GALLONS
9/1/18		10/1/18		11/1/18		12/1/18	
9/2/18		10/2/18		11/2/18		12/2/18	
9/3/18		10/3/18		11/3/18		12/3/18	
9/4/18		10/4/18		11/4/18		12/4/18	
9/5/18		10/5/18		11/5/18		12/5/18	
9/6/18		10/6/18		11/6/18		12/6/18	
9/7/18		10/7/18		11/7/18		12/7/18	
9/8/18		10/8/18		11/8/18		12/8/18	
9/9/18		10/9/18		11/9/18		12/9/18	
9/10/18		10/10/18		11/10/18		12/10/18	
9/11/18		10/11/18		11/11/18		12/11/18	
9/12/18		10/12/18		11/12/18		12/12/18	
9/13/18		10/13/18		11/13/18		12/13/18	
9/14/18		10/14/18		11/14/18		12/14/18	
9/15/18		10/15/18		11/15/18		12/15/18	
9/16/18		10/16/18		11/16/18		12/16/18	
9/17/18		10/17/18		11/17/18		12/17/18	
9/18/18		10/18/18		11/18/18		12/18/18	
9/19/18		10/19/18		11/19/18		12/19/18	
9/20/18		10/20/18		11/20/18		12/20/18	
9/21/18		10/21/18		11/21/18		12/21/18	
9/22/18		10/22/18		11/22/18		12/22/18	
9/23/18		10/23/18		11/23/18		12/23/18	
9/24/18		10/24/18		11/24/18		12/24/18	
9/25/18		10/25/18		11/25/18		12/25/18	
9/26/18		10/26/18		11/26/18		12/26/18	
9/27/18		10/27/18		11/27/18		12/27/18	
9/28/18		10/28/18		11/28/18		12/28/18	
9/29/18		10/29/18		11/29/18		12/29/18	
9/30/18		10/30/18		11/30/18		12/30/18	
		10/31/18				12/31/18	

SEMI-ANNUAL REPORT CALCULATION WORKSHEET (January-June)

Process	Average	Maximum	Type of Discharge
Regulated (Core & Anc)	64296	218800	POTW Continuous
Regulated (Cyanide)	0	0	NA
§403.6(e) Unregulated*	0	0	NA
§403.6(e) Dilute	0	0	NA
Cooling Water	0	0	NA
Sanitary	37321	85732	POTW Continuous
Total Flow to POTW	101,417.39	345,123.46	**********

TOTAL H2O TO PLANT*	NUMBER OF DAYS	AVERAGE GALLONS PER DAY	TOTAL H20 TREATED**	% OF H2O TREATED	MAXIMUM DAY TREATED**	MAXIMUM GALLONS PER DAY
18,697,500	184	101617	11830500	63.3%	147700	233432
			D6			

TOTAL H20 TREATED**	NUMBER OF DAYS	AVERAGE REGULATED TOTAL	AVERAGE GALLONS PER DAY	AVERAGE SANITARY	MAXIMUM DAY TREATED**	MAXIMUM GALLONS PER DAY	MAXIMUM SANITARY
11,830,500	184	64296	101617	37321	147700	233432	85732
	64296.19565	C12	D12		F12		

*NUMBERS FROM WATER BILLS
**NUMBERS FROM THE ECOLOGY LOG BOOK

USAGES						
Location	To Plater	NE Front	SE Front	Plastics	Toilet Seats	Toilet Seats
Meter #	4097500	4098000	4099000	4100000	4110000	4111000
January	500,000	220,000	1,813,000		567,500	29,600
February	273,400	222,200	1,537,000		610,400	137,900
March	598,000	206,600	1,971,000		577,900	42,900
April	485,500	179,700	1,755,000		463,400	46,500
May	313,600	249,400	1,700,000		500,000	119,500
June	449,000	277,400	2,013,000		728,900	109,200
6MO Total	**2,619,500**	**1,355,300**	**10,789,000**	**0**	**3,448,100**	**485,600**
Faucet Plant Total		18,660,800				

	Cd Max	Cd Avg	Cr Max	Cr Avg	Cu Max	Cu Avg	Pb Max	Pb Avg	Ni Max	Ni Avg	Ag Max	Ag Avg	Zn Max	Zn Avg	TTO Max	TTO Avg	Cn Max	Cn Avg
January			0.72	0.36	0.27	0.17			1.81	0.6			0.06	0.03				
February			0.59	0.4	0.3	0.16			0.45	0.33			0.03	0.02				
March			0.71	0.33	0.11	0.09			0.25	0.17			0.02	0.02				
April			0.39	0.17	0.82	0.29			0.3	0.23			0.2	0.06				
May			0.27	0.18	0.16	0.12			0.97	0.4			0.07	0.04				
June	0.005	0.005	0.32	0.22	0.24	0.16	0.015	0.015	0.54	0.27	0.02	0.02	0.02	0.02			0.02	0.02
Max Measured	0.005		0.72		0.82		0.015		1.81		0.02		0.2		0		0.02	
Avg Measured	0.005		0.276666667		0.17		0.015		0.333333333		0.02		0.03		0		0.02	

Arkansas Analytical Inc.

8100 National Dr. - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

13 June 2018

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150

Project: Semiannual Wastewater Sample(s)

Project Number: June 2018

SDG Number: 1806067

Enclosed are the results of analyses for samples received by the laboratory on 06-Jun-18 11:31. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✔
Containers Correct	✔
COC/Labels Agree	✔
Received On Ice	✔
Temperature on Receipt	4.0°C

Sincerely,

Norma James / Teresa Coins

Norma James and/or Teresa Coins
Technical Director and/or QA Officer

13 June 2018

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)

Project Number: June 2018
Date Received: 06-Jun-18 11:31

CASE NARRATIVE

Sample Delivery Group – 1806067

One *OR* more of the qualifiers described below may appear in this report. Qualifiers in RED apply to this SDG (Sample Delivery Group).

SAMPLE RECEIPT QUALIFIERS:

Qualifier	Description
ET	Samples received above required temperature.
ET	Samples received above required temperature. Although collected and received the same day, no ice was present to indicate the cooling preservation was attempted.
E2	Result qualified as it was received and analyzed outside of holding time. Analysis is considered a "Field" analysis.
E2	Result qualified as it was received and/or analyzed outside of holding time.
E3	Result qualified as it was received in the incorrect container and/or preservation.

QUALITY CONTROL QUALIFIERS:

Qualifier	Description
E20	Sample used as "parent" for the associated analytical batch.
%D3/S-01	Surrogate failed to recover within acceptance criteria (%D3/S-01).
E1	Results associated with this surrogate were qualified as "estimated" (E1).
B	Present in the Associated Blank
B1	Present in Blank, but Not In the Sample.
%D2 / E5	Laboratory Control Spike (LCS) and/or Laboratory Control Spike Duplicate (LCSD) failed to recover with acceptance criteria (%D2). Associated results were qualified as "estimated" (E5).
%D1	Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) failed acceptance criteria.
MBA	Failed criteria due the high concentration of analyte in the parent sample.
MBI	Failed criteria due an interference in the parent sample.
%D3	Quality Control Surrogate failed acceptance criteria.
NREC	Quality Control Surrogate failed.

13 June 2018

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: June 2018
Date Received: 06-Jun-18 11:31

ANALYTICAL RESULTS

Lab Number: 1806067-01
Sample Name: Wastewater Composite
Date/Time Collected: 6/6/18 6:00
Sample Matrix: Water

Acid Compounds	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
2,4,6-Trichlorophenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2,4-Dichlorophenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2,4-Dimethylphenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2,4-Dinitrophenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2-Chlorophenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2-Nitrophenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
4,6-Dinitro-o-cresol	ug/L	< 50.0		6/7/18 17:36	B806104	EPA 625 (mod.)
4-Nitrophenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
p-Chloro-m-cresol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Pentachlorophenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Phenol	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2,4,6-Tribromophenol [surr]	%	107		6/7/18 17:36	B806104	EPA 625 (mod.)
2-Fluorophenol [surr]	%	48.9		6/7/18 17:36	B806104	EPA 625 (mod.)
Phenol-d5 [surr]	%	38.3		6/7/18 17:36	B806104	EPA 625 (mod.)

Base/Neutral Compounds	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
1,2,4-Trichlorobenzene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
1,2-Dichlorobenzene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
1,2-Diphenyl Hydrazine	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
1,3-Dichlorobenzene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
1,4-Dichlorobenzene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2,3,7,8-TCDD Screen	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2,2'-Oxybis(1-Chloropropane)	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2,4-Dinitrotoluene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2,6-Dinitrotoluene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2-Chloronaphthalene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
3,3'-Dichlorobenzidine	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
4-Bromophenyl-phenylether	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
4-Chlorophenyl-phenylether	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Acenaphthene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Acenaphthylene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Anthracene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Benzidine	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Benzo[a]pyrene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Benzo[b]fluoranthene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Benzo[g,h,i]perylene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Benzo[k]fluoranthene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Benzo (a) anthracene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Bis(2-chloroethoxy)methane	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Bis(2-chloroethyl)ether	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Bis(2-ethylhexyl)phthalate	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Butylbenzylphthalate	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Chrysene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Dibenz[a,h]anthracene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)

13 June 2018

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: June 2018
Date Received: 06-Jun-18 11:31

ANALYTICAL RESULTS

Lab Number: 1806067-01
Sample Name: Wastewater Composite
Date/Time Collected: 6/6/18 6:00
Sample Matrix: Water

Base/Neutral Compounds	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Diethylphthalate	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Dimethylphthalate	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Di-n-butylphthalate	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Di-n-octylphthalate	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Fluorene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Hexachlorobenzene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Hexachlorobutadiene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Hexachlorocyclopentadiene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Hexachloroethane	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Indeno[1,2,3-cd]pyrene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Isophorone	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Naphthalene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Nitrobenzene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
N-Nitrosodimethylamine	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
N-Nitroso-di-n-propylamine	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
N-Nitrosodiphenylamine/diphenylamine	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Phenanthrene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
Pyrene	ug/L	< 10.0		6/7/18 17:36	B806104	EPA 625 (mod.)
2-Fluorobiphenyl [surr]	%	70.2		6/7/18 17:36	B806104	EPA 625 (mod.)
Nitrobenzene-d5 [surr]	%	71.5		6/7/18 17:36	B806104	EPA 625 (mod.)
Terphenyl-d14 [surr]	%	103		6/7/18 17:36	B806104	EPA 625 (mod.)

Total Metals	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Arsenic	mg/L	< 0.0235		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Cadmium	mg/L	< 0.00120		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Chromium	mg/L	**0.106**		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Copper	mg/L	**0.160**		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Lead	mg/L	< 0.0156		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Mercury	mg/L	< 0.000200		6/7/18 11:45	B806092	SW7470A/EPA245.1,3.0- 1994
Molybdenum	mg/L	< 0.0312		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Nickel	mg/L	**0.203**		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Selenium	mg/L	< 0.0520		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Silver	mg/L	< 0.0208		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)
Zinc	mg/L	**0.0522**		6/8/18 12:29	B806105	EPA 200.7, Rev 4.4 (1994)

Volatiles	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
1,1-Dichloroethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
1,1-Dichloroethene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
1,1,1-Trichloroethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
1,1,2-Trichloroethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
1,1,2,2-Tetrachloroethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
1,2-Dichlorobenzene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
1,2-Dichloropropane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
1,2-Dichloroethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624

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James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: June 2018
Date Received: 06-Jun-18 11:31

ANALYTICAL RESULTS

Lab Number: 1806067-01
Sample Name: Wastewater Composite
Date/Time Collected: 6/6/18 6:00
Sample Matrix: Water

Volatiles	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
1,3-Dichlorobenzene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
1,4-Dichlorobenzene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
2-Chloroethyl vinyl ether	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Acrylonitrile	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Benzene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Bromodichloromethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Bromoform	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Acrolein	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Bromomethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Carbon tetrachloride	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Chlorobenzene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Chlorodibromomethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Chloroethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Chloroform	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Chloromethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
cis-1,3-Dichloropropene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Ethylbenzene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Methylene chloride	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Tetrachloroethene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Toluene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
trans-1,2-Dichloroethene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Trichloroethene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
trans-1,3-Dichloropropene	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Vinyl chloride	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
Dichlorodifluoromethane	ug/L	< 10.0	E3	6/8/18 11:00	B806118	EPA 624
4-Bromofluorobenzene [surr]	%	119		6/8/18 11:00	B806118	EPA 624
1,2-Dichloroethane-d4 [surr]	%	104		6/8/18 11:00	B806118	EPA 624
Toluene-d8 [surr]	%	97.2		6/8/18 11:00	B806118	EPA 624

Wet Chemistry	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
BOD-5	mg/L	**7.76**		6/7/18 9:30	B806099	SM 5210 B-2011, Hach 10360
Cyanide (total)	mg/L	< 0.010		6/12/18 14:01	B806169	SM 4500-CN B,E-2011
TSS	mg/L	**4.00**		6/8/18 9:20	B806106	I-3765-85/SM2540 D-2011

ANALYTICAL RESULTS

Lab Number: 1806067-02
Sample Name: Wastewater Grab
Date/Time Collected: 6/6/18 6:00
Sample Matrix: Water

Wet Chemistry	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Oil and Grease	mg/L	< 3.83	E20	6/8/18 7:44	B806059	EPA1664 Mod, Rev. B 2010

13 June 2018

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: June 2018
Date Received: 06-Jun-18 11:31

QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B806059 (Water)
Prepared: 07-Jun-18 07:32 By: SP -- Analyzed: 08-Jun-18 07:44 By: EP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Oil and Grease	<3.50 mg/L	89.5% / 87.0%	72.5% / NA		2.83%	%D1

Total Metals -- Batch: B806092 (Water)
Prepared: 07-Jun-18 09:40 By: ST -- Analyzed: 07-Jun-18 11:39 By: ST

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Mercury	<0.000200 mg/L	103% / NA	101% / 102%		1.41%	

Wet Chemistry -- Batch: B806099 (Water)
Prepared: 07-Jun-18 09:30 By: ST -- Analyzed: 07-Jun-18 09:30 By: ST

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
BOD-5	<2.00 mg/L	109% / 112%	NA / NA		2.98%	

Base/Neutral Compounds -- Batch: B806104 (Water)
Prepared: 07-Jun-18 15:58 By: CT -- Analyzed: 07-Jun-18 17:13 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,2,4-Trichlorobenzene	<10.0 ug/L	43.6% / NA	34.7% / 30.8%		11.8%	
1,2-Dichlorobenzene	<10.0 ug/L	46.2% / NA	36.6% / 31.7%		14.4%	
1,2-Diphenyl Hydrazine	<10.0 ug/L	75.8% / NA	67.8% / 60.1%		12.0%	
1,3-Dichlorobenzene	<10.0 ug/L	44.7% / NA	34.3% / 30.5%		11.8%	
1,4-Dichlorobenzene	<10.0 ug/L	45.2% / NA	34.6% / 30.8%		11.4%	
2,2'-Oxybis(1-Chloropropane)	<10.0 ug/L	61.8% / NA	45.2% / 39.1%		14.3%	
2,4,6-Trichlorophenol	<10.0 ug/L	72.1% / NA	65.4% / 61.8%		5.59%	
2,4-Dichlorophenol	<10.0 ug/L	64.1% / NA	52.5% / 50.0%		4.83%	
2,4-Dimethylphenol	<10.0 ug/L	68.4% / NA	50.3% / 46.3%		8.11%	
2,4-Dinitrophenol	<10.0 ug/L	76.6% / NA	89.3% / 86.8%		2.83%	
2,4-Dinitrotoluene	<10.0 ug/L	81.4% / NA	80.1% / 69.6%		14.0%	
2,6-Dinitrotoluene	<10.0 ug/L	79.3% / NA	69.1% / 62.4%		10.1%	
2-Chloronaphthalene	<10.0 ug/L	58.3% / NA	46.0% / 41.9%		9.41%	
2-Chlorophenol	<10.0 ug/L	69.5% / NA	49.6% / 45.6%		8.31%	
2-Nitrophenol	<10.0 ug/L	70.0% / NA	51.3% / 45.9%		11.3%	
3,3'-Dichlorobenzidine	<10.0 ug/L	81.8% / NA	89.6% / 73.2%		20.1%	
4,6-Dinitro-o-cresol	<50.0 ug/L	77.6% / NA	84.6% / 81.8%		3.38%	
4-Bromophenyl-phenylether	<10.0 ug/L	71.3% / NA	66.7% / 57.7%		14.4%	
4-Chlorophenyl-phenylether	<10.0 ug/L	65.6% / NA	56.6% / 53.0%		6.49%	
4-Nitrophenol	<10.0 ug/L	57.3% / NA	57.5% / 55.4%		3.57%	
Acenaphthene	<10.0 ug/L	63.7% / NA	51.6% / 47.8%		7.74%	
Acenaphthylene	<10.0 ug/L	64.2% / NA	51.7% / 47.6%		8.28%	
Anthracene	<10.0 ug/L	73.4% / NA	75.2% / 64.4%		15.6%	
Benzidine	<10.0 ug/L	80.1% / NA	36.2% / 29.1%		21.9%	
Benzo (a) anthracene	<10.0 ug/L	76.3% / NA	88.0% / 72.5%		19.4%	
Benzo[a]pyrene	<10.0 ug/L	77.0% / NA	88.8% / 73.9%		18.3%	
Benzo[b]fluoranthene	<10.0 ug/L	80.2% / NA	92.2% / 76.7%		18.4%	

13 June 2018

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)

Project Number: June 2018
Date Received: 06-Jun-18 11:31

QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: B806104 (Water)
Prepared: 07-Jun-18 15:58 By: CT -- Analyzed: 07-Jun-18 17:13 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Benzo[g,h,i]perylene	<10.0 ug/L	76.3% / NA	85.5% / 72.5%		16.5%	
Benzo[k]fluoranthene	<10.0 ug/L	79.6% / NA	91.0% / 75.3%		18.9%	
Bis(2-chloroethoxy)methane	<10.0 ug/L	66.5% / NA	48.0% / 43.6%		9.62%	
Bis(2-chloroethyl)ether	<10.0 ug/L	65.7% / NA	47.3% / 42.3%		11.1%	
Bis(2-ethylhexyl)phthalate	<10.0 ug/L	84.9% / NA	96.1% / 80.5%		17.4%	
Butylbenzylphthalate	<10.0 ug/L	80.8% / NA	95.2% / 79.9%		17.5%	
Chrysene	<10.0 ug/L	76.0% / NA	88.2% / 73.9%		17.7%	
Dibenz[a,h]anthracene	<10.0 ug/L	83.3% / NA	91.5% / 77.4%		16.8%	
Diethylphthalate	<10.0 ug/L	77.0% / NA	74.0% / 65.7%		11.9%	
Dimethylphthalate	<10.0 ug/L	77.6% / NA	66.3% / 59.6%		10.6%	
Di-n-butylphthalate	<10.0 ug/L	83.9% / NA	88.8% / 71.4%		17.7%	
Di-n-octylphthalate	<10.0 ug/L	81.9% / NA	95.1% / 78.8%		18.6%	
Fluorene	<10.0 ug/L	68.9% / NA	59.8% / 55.5%		7.41%	
Hexachlorobenzene	<10.0 ug/L	71.2% / NA	66.3% / 57.5%		14.2%	
Hexachlorobutadiene	<10.0 ug/L	41.4% / NA	32.1% / 29.0%		10.0%	
Hexachlorocyclopentadiene	<10.0 ug/L	31.0% / NA	19.3% / 18.0%		6.75%	
Hexachloroethane	<10.0 ug/L	43.1% / NA	32.3% / 28.4%		12.8%	
Indeno[1,2,3-cd]pyrene	<10.0 ug/L	75.7% / NA	87.1% / 73.6%		16.8%	
Isophorone	<10.0 ug/L	68.1% / NA	48.1% / 42.9%		11.3%	
Naphthalene	<10.0 ug/L	49.7% / NA	40.1% / 35.9%		10.9%	
Nitrobenzene	<10.0 ug/L	65.8% / NA	48.3% / 41.6%		14.6%	
N-Nitrosodimethylamine	<10.0 ug/L	51.5% / NA	36.7% / 34.9%		5.19%	
N-Nitroso-di-n-propylamine	<10.0 ug/L	67.5% / NA	46.8% / 40.3%		12.4%	
N-Nitrosodiphenylamine/diphenylamine	<10.0 ug/L	75.0% / NA	76.2% / 65.6%		15.0%	
p-Chloro-m-cresol	<10.0 ug/L	70.2% / NA	69.4% / 63.5%		8.82%	
Pentachlorophenol	<10.0 ug/L	84.1% / NA	101% / 88.9%		11.8%	
Phenanthrene	<10.0 ug/L	74.4% / NA	77.0% / 65.5%		16.2%	
Phenol	<10.0 ug/L	47.0% / NA	33.6% / 32.5%		3.35%	
Pyrene	<10.0 ug/L	74.8% / NA	86.6% / 71.1%		19.7%	
2,4,6-Tribromophenol [surr]	97.7 %	85.0% / NA	91.9% / 81.2%		NA	
2-Fluorobiphenyl [surr]	94.8 %	71.7% / NA	52.8% / 47.9%		NA	
2-Fluorophenol [surr]	75.8 %	59.8% / NA	40.7% / 38.5%		NA	
Nitrobenzene-d5 [surr]	100 %	74.9% / NA	54.3% / 47.6%		NA	
Phenol-d5 [surr]	57.9 %	48.3% / NA	31.4% / 33.4%		NA	
Terphenyl-d14 [surr]	110 %	85.4% / NA	96.9% / 82.4%		NA	

13 June 2018

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415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: June 2018
Date Received: 06-Jun-18 11:31

QUALITY CONTROL RESULTS

Total Metals -- Batch: B806105 (Water)
Prepared: 07-Jun-18 16:00 By: HF -- Analyzed: 08-Jun-18 11:06 By: HF

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Arsenic	<0.0235 mg/L	102% / NA	104% / 104%		0.651%	
Cadmium	<0.00120 mg/L	110% / NA	107% / 107%		0.441%	
Chromium	<0.0125 mg/L	110% / NA	103% / 103%		0.434%	
Copper	<0.00520 mg/L	106% / NA	98.7% / 99.3%		0.631%	
Lead	<0.0156 mg/L	113% / NA	101% / 101%		0.469%	
Molybdenum	<0.0312 mg/L	104% / NA	101% / 101%		0.238%	
Nickel	<0.0104 mg/L	110% / NA	101% / 102%		0.318%	
Selenium	<0.0520 mg/L	104% / NA	105% / 106%		0.359%	
Silver	<0.0208 mg/L	111% / NA	98.3% / 98.7%		0.455%	
Zinc	<0.0156 mg/L	107% / NA	108% / 105%		2.40%	

Wet Chemistry -- Batch: B806106 (Water)
Prepared: 08-Jun-18 09:20 By: MH -- Analyzed: 08-Jun-18 09:20 By: mh

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	89.0% / 96.0%	NA / NA		7.57%	

13 June 2018

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)

Project Number: June 2018
Date Received: 06-Jun-18 11:31

QUALITY CONTROL RESULTS

Volatiles -- Batch: B806118 (Water)

Prepared: 08-Jun-18 09:11 By: KR -- Analyzed: 08-Jun-18 13:07 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,1,1-Trichloroethane	<10.0 ug/L	102% / NA	102% / 109%		6.97%	
1,1,2,2-Tetrachloroethane	<10.0 ug/L	91.0% / NA	108% / 101%		6.07%	
1,1,2-Trichloroethane	<10.0 ug/L	93.9% / NA	98.2% / 97.4%		0.818%	
1,1-Dichloroethane	<10.0 ug/L	106% / NA	106% / 111%		5.05%	
1,1-Dichloroethene	<10.0 ug/L	96.8% / NA	102% / 105%		3.03%	
1,2-Dichlorobenzene	<10.0 ug/L	89.0% / NA	97.0% / 97.0%		0.00%	
1,2-Dichloroethane	<10.0 ug/L	105% / NA	104% / 108%		3.86%	
1,2-Dichloropropane	<10.0 ug/L	113% / NA	115% / 113%		1.61%	
1,3-Dichlorobenzene	<10.0 ug/L	93.5% / NA	96.5% / 100%		3.77%	
1,4-Dichlorobenzene	<10.0 ug/L	88.8% / NA	96.1% / 98.7%		2.58%	
2-Chloroethyl vinyl ether	<10.0 ug/L	109% / NA	MBI / MBI		%	MBI
Acrolein	<10.0 ug/L	79.8% / NA	86.5% / 83.0%		4.02%	
Acrylonitrile	<10.0 ug/L	96.7% / NA	101% / 106%		5.04%	
Benzene	<10.0 ug/L	102% / NA	108% / 119%		9.14%	
Bromodichloromethane	<10.0 ug/L	104% / NA	108% / 112%		3.80%	
Bromoform	<10.0 ug/L	102% / NA	102% / 102%		0.236%	
Bromomethane	<10.0 ug/L	79.9% / NA	77.1% / 78.5%		1.83%	
Carbon tetrachloride	<10.0 ug/L	97.7% / NA	97.5% / 101%		3.17%	
Chlorobenzene	<10.0 ug/L	97.3% / NA	91.4% / 99.3%		8.33%	
Chlorodibromomethane	<10.0 ug/L	95.3% / NA	90.2% / 97.1%		7.39%	
Chloroethane	<10.0 ug/L	103% / NA	93.3% / 108%		14.5%	
Chloroform	<10.0 ug/L	102% / NA	104% / 110%		5.60%	
Chloromethane	<10.0 ug/L	105% / NA	89.0% / 94.9%		6.39%	
cis-1,3-Dichloropropene	<10.0 ug/L	118% / NA	113% / 118%		4.06%	
Dichlorodifluoromethane	<10.0 ug/L	82.1% / NA	74.1% / 84.8%		13.5%	
Ethylbenzene	<10.0 ug/L	103% / NA	97.7% / 98.7%		1.03%	
Methylene chloride	<10.0 ug/L	112% / NA	106% / 111%		4.45%	
Tetrachloroethene	<10.0 ug/L	103% / NA	98.2% / 101%		3.20%	
Toluene	<10.0 ug/L	99.0% / NA	93.2% / 97.6%		4.55%	
trans-1,2-Dichloroethene	<10.0 ug/L	100% / NA	105% / 107%		1.42%	
trans-1,3-Dichloropropene	<10.0 ug/L	106% / NA	97.9% / 104%		6.36%	
Trichloroethene	<10.0 ug/L	105% / NA	108% / 109%		0.929%	
Vinyl chloride	<10.0 ug/L	89.4% / NA	92.7% / 92.1%		0.747%	
1,2-Dichloroethane-d4 [surr]	97.6 %	96.4% / NA	100% / 104%		NA	
4-Bromofluorobenzene [surr]	110 %	102% / NA	111% / 104%		NA	
Toluene-d8 [surr]	92.8 %	92.1% / NA	87.9% / 91.4%		NA	

Wet Chemistry -- Batch: B806169 (Water)

Prepared: 12-Jun-18 08:28 By: SP -- Analyzed: 12-Jun-18 14:01 By: SP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Cyanide (total)	<0.010 mg/L	110% / 112%	106% / NA		2.11%	

13 June 2018

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: June 2018
Date Received: 06-Jun-18 11:31

QUALIFIER(S)

*%D1:	Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
*E20:	Estimated Result Due to Matrix Spike and/or Matrix Spike Duplicate Failure; This sample was used as the "parent sample" in MS/MSD prep.
*E3:	Estimated Result Due to Incorrect Sample Preservation or Container
*MBI:	Masked By Interference

All Analysis performed according to EPA approved methodology when available:
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: Norma James / Teresa Coins

Norma James and/or Teresa Coins
Technical Director and/or QA Officer

Arkansas Analytical Inc.
8100 National Dr.
Little Rock, AR 72209
PHONE: 501-455-3233
FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Project Description	Turnaround Time
Kohler	Wasetwater Sample	1 Day (100%)
415 South Oklahoma St.	Semi-Annual TTO/PPPS	2 Day (50%)
Sheridan, AR 72150	**Reporting Information**	3 Day (25%)
	Telephone: 870-942-2111	5 Day (Routine)
Attn: James House	Email: james.house@kohler.com, joe.mcelroy@kohler.com, neal.hollinger@kohler.com	

Preservation Codes:
1. Cool, 4 Degrees Centigrade
2. Sulfuric Acid (H_2SO_4), pH < 2
3. Nitric Acid (HNO_3), pH < 2
4. Thiosulfate for Dechlorination
5. Hydrochloric Acid(HCl)
6. Sodium Hydroxide (NaOH), pH > 12

Sampler(s) Signature: Mike Lorenson
Sampler(s) Printed: Mike Lorenson

Field Number	SAMPLE COLLECTION Date/s	Time/s	Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	BOD, TSS	Cyanide	As, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Ag, Zn	PPS Volatiles	PPS Base Neutral/Acids	PPS Pesticides/PCBs	Oil and Grease			Arkansas Analytical Work Order Number:
							TEST PARAMETERS										Bottle Type Code
							Preservative Code:	1	1,6	1,3	1	1	1	1,2			G = Glass; P = Plastic
							Bottle Type:	P	P	P	GV	GA	GA	GA			V = Septum; A = Amber
	6/5-6/6-2018	6AM-6AM		X	12	Water	Wastewater Composite	X	X	X	X	X	X				1806067 01
	6/6/2018	6AM	X		1	Water	Wastewater Grab						(4)	X			02
	6/6/2018	6AM	X		1	Water	Wastewater Grab - Lab QC Sample							X			1

Incorrect Container/Preservation
Incorrect container and/or preservation for VOA-Headspace analysis(es).
Data will be qualified.

* Pesticides/PCB sample was inadvertently mis-used by lab, therefore leaving no remaining sample - customer contacted regarding replacement resample 6/11/18 (8)

1. Relinquished by: (Signature)	Date/Time	2. Received by: (Signature)
Mike Lorenson	6/6/2018 6:00 AM	Parrish
3. Relinquished by: (Signature)	Date/Time	4. Received by lab: (Signature)
Parrish	6.6.18 1131	Jammy Riddle

SAMPLE CONDITION UPON RECEIPT IN LAB

1. CUSTODY SEALS:	✓ Yes	No
2. CONTAINERS CORRECT:	Yes	No
3. COC/LABELS AGREE:	Yes	No
4. RECEIVED ON ICE:	Yes	No
5. TEMPERATURE ON RECEIPT:	4 °C	
6. TEMPERATURE GUN ID:	HHT# 2	

FOR COMPLETION BY LAB ONLY

REMARKS / SAMPLE COMMENTS

ONSITE MEASUREMENTS BY Kohler

pH (S.U.)	
Flow	

KOHLER CO.
415 SOUTH OKLAHOMA ST.
SHERIDAN, AR 72150

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Arkansas Dept. of Env. Quality
Attn: Guy Lester
5301 Northshore Dr.
North Little Rock, AR 72118