

## Gage, Hannah

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**From:** Johnson, Lindsay  
**Sent:** Tuesday, February 21, 2017 12:37 PM  
**To:** 'james.house@kohler.com'  
**Cc:** Leamons, Bryan; McWilliams, Carrie; Yates, Adam; Gage, Hannah  
**Subject:** AR0034347\_KOHLER ARp000021 January 2017 semi annual Pretreatment report  
**Attachments:** Kohler\_additional information 20170221.pdf; Kohler\_Sheridan January 2016.pdf

James,

KOHLER's January 2017 semi-annual Pretreatment report was 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.

Thank you so much for stopping by the office and dropping off the requested information. I enjoyed meeting you and look forward to working with you in the future. No further action is deemed necessary at this time.

Best,

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

B1111F

**KOHLER.**

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

Re: **SEMI-ANNUAL REPORT 2nd HALF 2016**

AG

1/13/17

AR00343417

Dear Mr. Gilliam,

In accordance with 40CFR403.12 (e) we are submitting semi-annual reports for the months July 1, 2016 through December 31, 2016. Attached with this report is the TTO analysis for this period. Please contact me at 870-917-6215 should you have any questions.

Sincerely,



James House  
Safety/Environmental Specialist

Attachments: TTO Analysis for the 2nd half of 2016

Cc: Jim Bilgo, EHS Supervisor, Kohler, WI  
Erika Strand, Global Faucets Program Coordinator  
David Fitzgerald, Sheridan Waterworks  
File


**RECEIVED**  
JAN 17 2017

@my desk 1/19 -110

## SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR433

Use of this form is not an EPA/ADEQ requirement.

Attn: Water Div/NPDES Pretreatment

<b>(1) IDENTIFYING INFORMATION</b>	
<p><b>A. LEGAL NAME &amp; MAILING ADDRESS</b>                  KOHLER Company                  415 S Oklahoma St.                  Sheridan, AR 72150</p>	<p><b>B. FACILITY &amp; LOCATION ADDRESS</b>                  415 S. Oklahoma St.                  Sheridan, AR 72150</p>
<p><b>C. FACILITY CONTACT:</b> James House      <b>TELEPHONE NUMBER:</b> 870-942-2111</p>	
<b>(2) REPORTING PERIOD-- FISCAL YEAR From January 1 to December 31</b> <small>(Both Semi-Annual Reports must cover Fiscal Year)</small>	
<p><b>A. MONTHS WHICH REPORTS ARE DUE</b>  <u>July &amp; December</u></p>	<p><b>B. PERIOD COVERED BY THIS REPORT</b>                  FROM: July 1, 2016 TO: December 31, 2016</p>
<b>(3) DESCRIPTION OF OPERATION</b>	
<p><b>A. REGULATED PROCESSES</b></p> <p style="text-align: center;"><u>CORE PROCESS(ES)</u></p> <p style="text-align: center;"><small>CHECK EACH APPLICABLE BLOCK</small></p> <p><input checked="" type="checkbox"/> Electroplating  <input checked="" type="checkbox"/> Electroless Plating  <input type="checkbox"/> Anodizing  <input type="checkbox"/> Coating  <input type="checkbox"/> Chemical Etching and Milling  <input type="checkbox"/> Printed Circuit Board Manufacture</p> <p style="text-align: center;"><u>ANCILLARY PROCESS(ES)*</u></p> <p style="text-align: center;"><small>LIST BELOW EACH PROCESS USED IN THE FACILITY</small></p> <p><u>BRAZING</u>  <u>ACID/ALKALI CLEANING</u>  <hr/>  <hr/>  <hr/>  <hr/></p>	<p><b>B. CHANGES:</b> 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.</p> <div style="text-align: right; margin-top: 100px;">  </div>
<p>*SEE 40CFR. 10(a) FOR 40 DIFFERENT OPERATIONS</p>	
<p><b>C. Number of Regular Employees at this Facility</b>      <u>368</u></p>	<p><b>D. [Reserved]</b></p>

(4) FLOW MEASUREMENT

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

Process	Average	Maximum	Type of Discharge
Regulated (Core & Anc)	67,593	150,000	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	26,574	58,973	POTW Continuous
Total Flow to POTW	94,167	208,973	*****

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

(5) MEASUREMENT OF POLLUTANTS

A. TYPE OF TREATMENT SYSTEM

CHECK EACH APPLICABLE BLOCK

- Neutralization
- Chemical Precipitation and Sedimentation
- 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	0.008	1.56	0.52	0.015	1.44	0.02	0.19	0.02	0.00
Ave Measured	0.008	0.32	0.29	0.015	0.56	0.02	0.08	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:  Yes No

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

§602 [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

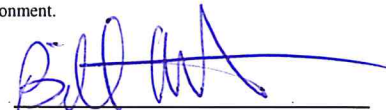
ATTACHMENTS:  
TTO/CN Analysis  
Semi-Annual Metals Analysis

cc: Erika Strand-Corporate EHS Program Coordinator  
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.

Bill Armstong  
NAME OF CORPORATE OFFICIER OR AUTHORIZED REPRESENTATIVE

  
SIGNATURE

Plant Manager of Arkansas Faucet Operations  
OFFICIAL TITLE

1/13/17  
DATE SIGNED

DATE	GALLONS	DATE	GALLONS	DATE	GALLONS	DATE	GALLONS
7/1/16	shut down	8/1/16	102100	9/1/16	135700	10/1/16	Saturday
7/2/16	Saturday	8/2/16	103400	9/2/16	Down	10/2/16	Sunday
7/3/16	Sunday	8/3/16	113700	9/3/16	Saturday	10/3/16	103700
7/4/16	Holiday	8/4/16	103000	9/4/16	Sunday	10/4/16	142600
7/5/16	98200	8/5/16	74000	9/5/16	Holiday	10/5/16	134900
7/6/16	100400	8/6/16	Saturday	9/6/16	127800	10/6/16	111200
7/7/16	108100	8/7/16	Sunday	9/7/16	12800	10/7/16	16900
7/8/16	97300	8/8/16	76400	9/8/16	133100	10/8/16	Saturday
7/9/16	Saturday	8/9/16	106200	9/9/16	105100	10/9/16	Sunday
7/10/16	Sunday	8/10/16	92700	9/10/16	Saturday	10/10/16	109300
7/11/16	110800	8/11/16	102500	9/11/16	Sunday	10/11/16	106200
7/12/16	82900	8/12/16	82900	9/12/16	108100	10/12/16	118600
7/13/16	93000	8/13/16	33000	9/13/16	112400	10/13/16	94200
7/14/16	112300	8/14/16	Sunday	9/14/16	127300	10/14/16	10000
7/15/16	85500	8/15/16	87400	9/15/16	93200	10/15/16	Saturday
7/16/16	Saturday	8/16/16	95100	9/16/16	40000	10/16/16	Sunday
7/17/16	Sunday	8/17/16	121200	9/17/16	Saturday	10/17/16	101000
7/18/16	84000	8/18/16	102500	9/18/16	Sunday	10/18/16	90700
7/19/16	102000	8/19/16	78600	9/19/16	87300	10/19/16	133300
7/20/16	119900	8/20/16	16500	9/20/16	64800	10/20/16	128000
7/21/16	72400	8/21/16	Sunday	9/21/16	103700	10/21/16	28000
7/22/16	29600	8/22/16	94200	9/22/16	72400	10/22/16	20700
7/23/16	Saturday	8/23/16	126000	9/23/16	36000	10/23/16	Sunday
7/24/16	Sunday	8/24/16	133500	9/24/16	39000	10/24/16	137000
7/25/16	107000	8/25/16	121500	9/25/16	Sunday	10/25/16	12800
7/26/16	104300	8/26/16	94100	9/26/16	103200	10/26/16	129500
7/27/16	120900	8/27/16	33700	9/27/16	113700	10/27/16	139000
7/28/16	60000	8/28/16	39700	9/28/16	123900	10/28/16	91000
7/29/16	87800	8/29/16	123600	9/29/16	117200	10/29/16	Saturday
7/30/16	6000	8/30/16	125700	9/30/16	75100	10/30/16	Sunday

DATE	GALLONS	DATE	GALLONS
11/1/15	119700	12/1/16	95600
11/2/15	126300	12/2/16	76300
11/3/15	125900	12/3/16	73400
11/4/15	107300	12/4/16	11000
11/5/15	87000	12/5/16	113100
11/6/15	Sunday	12/6/16	116800
11/7/15	85200	12/7/16	123400
11/8/15	100800	12/8/16	122200
11/9/15	92500	12/9/16	86200
11/10/15	95500	12/10/16	33300
11/11/15	40500	12/11/16	Sunday
11/12/15	94000	12/12/16	124800
11/13/15	Sunday	12/13/16	99700
11/14/15	101600	12/14/16	128100
11/15/15	109300	12/15/16	125000
11/16/15	116100	12/16/16	91400
11/17/15	98100	12/17/16	28300
11/18/15	55600	12/18/16	Sunday
11/19/15	Saturday	12/19/16	102500
11/20/15	Sunday	12/20/16	80600
11/21/15	92300	12/21/16	69900
11/22/15	107000	12/22/16	Holiday
11/23/15	48000	12/23/16	Holiday
11/24/15	Holiday	12/24/16	Holiday
11/25/15	Holiday	12/25/16	Holiday
11/26/15	Saturday	12/26/16	Holiday
11/27/15	Sunday	12/27/16	74600
11/28/15	101800	12/28/16	90700
11/29/15	87100	12/29/16	74000
11/30/15	117500	12/30/16	76900

SEMI-ANNUAL REPORT CALCULATION WORKSHEET (July-December)

Process	Average	Maximum	Type of Discharge
Regulated (Core & Anc)	67593	150000	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	26574	58973	POTW Continuous
Total Flow to POTW	94,167.39	208,973.15	*****

TOTAL H2O TO PLANT*	NUMBER OF DAYS	AVERAGE GALLONS PER DAY	TOTAL H2O TREATED**	% OF H2O TREATED	MAXIMUM DAY TREATED**	MAXIMUM GALLONS PER DAY
17326800	184	94167	12437100	71.8%	150000	208973

D6

TOTAL H2O TREATED**	NUMBER OF DAYS	AVERAGE REGULATED TOTAL	AVERAGE GALLONS PER DAY	AVERAGE SANITARY	MAXIMUM DAY TREATED**	MAXIMUM GALLONS PER DAY	MAXIMUM SANITARY
12,437,100	184	67593	94167	26574	150000	208973	58973
		67592.93478	C12	D12	F12		

\*NUMBERS FROM WATER BILLS

\*\*NUMBERS FROM THE ECOLOGY LOG BOOK

Location Meter #	USAGES					
	To Plater	NE Front	SE Front	Plastics	Toilet Seats	Toilet Seats
4097500	4098000	4099000	4100000	4110000	4111000	
January	306,700	536,900	1,909,000		231,200	32,700
February	391,100	677,400	2,224,000		246,500	33,900
March	346,500	579,200	1,818,000		144,300	31,700
April	398,400	690,800	1,711,000		235,700	33,700
May	347,000	750,900	2,680,000		294,500	51,400
June	293,400	636,500	1,910,000		365,400	37,600
July	561,400	297,300	2,165,000		757,700	60,800
August	362,900	470,200	1,571,000		621,700	45,400
September	488,800	313,300	2,092,000		637,500	39,000
October	564,300	438,800	2,235,000		793,900	47,600
November	530,500	158,600	1,174,000		666,500	65,000
December	574,000	305,700	3,024,000		805,300	52,000
<b>6MO Total</b>	<b>3,081,900</b>	<b>1,983,900</b>	<b>12,261,000</b>	<b>0</b>	<b>4,282,600</b>	<b>309,800</b>

Faucet Plant Total 17326800

	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
July			1.56	0.6	0.32	0.33			0.5	0.42			0.14	0.09				
August			0.65	0.26	0.21	0.14			0.45	0.28			0.09	0.06				
September			0.32	0.2	0.38	0.23			0.77	0.63			0.15	0.08				
October			0.4	0.26	0.18	0.13			1.14	0.79			0.25	0.21				
November			0.46	0.28	0.37	0.21			0.91	0.57			0.12	0.06				
December	0.008	0.008	0.33	0.32	0.37	0.8	0.015	0.015	1.44	0.86	0.02	0.02	0.12	0.06	0	0	0.02	0.02
Max Measured	0.008		1.56		0.52		0.015		1.44		0.02		0.19		0		0.02	
Avg Measured	0.008		0.32		0.29		0.015		0.558333333		0.02		0.08		0		0.02	



James House  
Kohler-Plating - Sheridan  
415 S Oklahoma St.  
Sheridan, AR 72150  
Project: Semiannual Wastewater Sample(s)  
Project Number: December 2016  
Date Received: 20-Dec-16 13:00

## CASE NARRATIVE

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Sample Delivery Group – 1612304

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

### BOD/CBOD QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
B-01	Method requirements for oxygen depletion failed.
<b>B-02</b>	<b>Method requirements for residual oxygen failed.</b>
<b>B-03</b>	<b>Depletion of the blank exceeded method requirements.</b>
B-06	Seed correction failed to meet method requirements.
%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).

### QUALITY CONTROL QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
<b>E20</b>	<b>Sample used as "parent" for the associated analytical batch.</b>
%D3/S-01 / E1	Surrogate failed to recover within acceptance criteria (%D3/S-01). 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.
<b>%D2 / E5</b>	<b>Laboratory Control Spike (LCS) and/or Laboratory Control Spike Duplicate (LCSD) failed to recover with acceptance criteria (%D2).</b>  <b>Associated results were qualified as "estimated" (E5).</b>
<b>%D1</b>	<b>Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) failed acceptance criteria.</b>
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.

James House

Kohler-Plating - Sheridan

415 S Oklahoma St.

Sheridan, AR 72150

Project: Semiannual Wastewater Sample(s)

Project Number: December 2016

Date Received: 20-Dec-16 13:00

**ANALYTICAL RESULTS**

Lab Number:		1612304-01					
Sample Name:		Wastewater Composite					
Date/Time Collected:		12/20/16 6:00					
Sample Matrix:		Water					
<u>Acid Compounds</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>	
2,4,6-Trichlorophenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2,4-Dichlorophenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2,4-Dimethylphenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2,4-Dinitrophenol	ug/L	< 10.0	E5	12/22/16 15:36	B612415	625 (mod.)	
2-Chlorophenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2-Nitrophenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
4-Chloro-3-methylphenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
4-Nitrophenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
4,6-Dinitro-2-methylphenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Pentachlorophenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Phenol	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2,4,6-Tribromophenol [surr]	%	89.4		12/22/16 15:36	B612415	625 (mod.)	
2-Fluorophenol [surr]	%	50.8		12/22/16 15:36	B612415	625 (mod.)	
Phenol-d5 [surr]	%	40.3		12/22/16 15:36	B612415	625 (mod.)	
<u>Base/Neutral Compounds</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>	
1,2,4-Trichlorobenzene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
1,2-Dichlorobenzene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
1,2-Diphenyl Hydrazine	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
1,3-Dichlorobenzene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
1,4-Dichlorobenzene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2,3,7,8-TCDD Screen	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2,4-Dinitrotoluene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2,6-Dinitrotoluene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
2-Chloronaphthalene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
3,3'-Dichlorobenzidine	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
4-Bromophenyl-phenylether	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
4-Chlorophenyl-phenylether	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Acenaphthene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Acenaphthylene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Anthracene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Benzidine	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Benzo[a]pyrene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Benzo[b]fluoranthene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Benzo[g,h,i]perylene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Benzo[k]fluoranthene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Benzo (a) anthracene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Bis(2-chloroethoxy)methane	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Bis(2-chloroethyl)ether	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Bis(2-ethylhexyl)phthalate	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Butylbenzylphthalate	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Chrysene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Dibenz[a,h]anthracene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	
Diethylphthalate	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)	

James House

Kohler-Plating - Sheridan

415 S Oklahoma St.

Sheridan, AR 72150

Project: Semiannual Wastewater Sample(s)

Project Number: December 2016

Date Received: 20-Dec-16 13:00

**ANALYTICAL RESULTS**

Lab Number:		1612304-01				
Sample Name:		Wastewater Composite				
Date/Time Collected:		12/20/16 6:00				
Sample Matrix:		Water				
<u>Base/Neutral Compounds</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Dimethylphthalate	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Di-n-butylphthalate	ug/L	< 10.0	E5	12/22/16 15:36	B612415	625 (mod.)
Di-n-octylphthalate	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Fluorene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Hexachlorobenzene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Hexachlorobutadiene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Hexachlorocyclopentadiene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Hexachloroethane	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Indeno[1,2,3-cd]pyrene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Isophorone	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Naphthalene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Nitrobenzene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
N-Nitrosodimethylamine	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
N-Nitroso-di-n-propylamine	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
N-Nitrosodiphenylamine/diphenylamine	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Phenanthrene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
Pyrene	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
2,2'-Oxybis(1-Chloropropane)	ug/L	< 10.0		12/22/16 15:36	B612415	625 (mod.)
2-Fluorobiphenyl [surr]	%	71.1		12/22/16 15:36	B612415	625 (mod.)
Nitrobenzene-d5 [surr]	%	71.0		12/22/16 15:36	B612415	625 (mod.)
Terphenyl-d14 [surr]	%	112		12/22/16 15:36	B612415	625 (mod.)
<u>Pesticides/PCBs</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Aldrin	ug/L	< 0.010		12/27/16 11:44	B612414	608
alpha-BHC	ug/L	< 0.050		12/27/16 11:44	B612414	608
beta-BHC	ug/L	< 0.050		12/27/16 11:44	B612414	608
gamma-BHC (Lindane)	ug/L	< 0.050		12/27/16 11:44	B612414	608
delta-BHC	ug/L	< 0.050		12/27/16 11:44	B612414	608
Chlordane	ug/L	< 0.200		12/27/16 11:44	B612414	608
4,4'-DDT	ug/L	< 0.020		12/27/16 11:44	B612414	608
4,4'-DDE	ug/L	< 0.100		12/27/16 11:44	B612414	608
4,4'-DDD	ug/L	< 0.100		12/27/16 11:44	B612414	608
Dieldrin	ug/L	< 0.020		12/27/16 11:44	B612414	608
Endosulfan I	ug/L	< 0.010		12/27/16 11:44	B612414	608
Endosulfan II	ug/L	< 0.020		12/27/16 11:44	B612414	608
Endosulfan sulfate	ug/L	< 0.100		12/27/16 11:44	B612414	608
Endrin	ug/L	< 0.020		12/27/16 11:44	B612414	608
Endrin aldehyde	ug/L	< 0.100		12/27/16 11:44	B612414	608
Heptachlor	ug/L	< 0.010		12/27/16 11:44	B612414	608
Heptachlor epoxide	ug/L	< 0.010		12/27/16 11:44	B612414	608
Chlorpyrifos	ug/L	< 0.070		12/27/16 11:44	B612414	608
Aroclor-1242	ug/L	< 0.200		12/27/16 11:44	B612414	608
Aroclor-1254	ug/L	< 0.200		12/27/16 11:44	B612414	608
Aroclor-1221	ug/L	< 0.200		12/27/16 11:44	B612414	608

James House  
Kohler-Plating - Sheridan  
415 S Oklahoma St.  
Sheridan, AR 72150  
Project: Semiannual Wastewater Sample(s)  
Project Number: December 2016  
Date Received: 20-Dec-16 13:00

## ANALYTICAL RESULTS

Lab Number: 1612304-01  
Sample Name: Wastewater Composite  
Date/Time Collected: 12/20/16 6:00  
Sample Matrix: Water

<u>Pesticides/PCBs</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Aroclor-1232	ug/L	< 0.200		12/27/16 11:44	B612414	608
Aroclor-1248	ug/L	< 0.200		12/27/16 11:44	B612414	608
Aroclor-1260	ug/L	< 0.200		12/27/16 11:44	B612414	608
Aroclor-1016	ug/L	< 0.200		12/27/16 11:44	B612414	608
Toxaphene	ug/L	< 0.300		12/27/16 11:44	B612414	608
TCMX [surr]	%	70.9		12/27/16 11:44	B612414	608
DCBP [surr]	%	83.6		12/27/16 11:44	B612414	608
<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Arsenic	mg/L	< 0.0104		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Cadmium	mg/L	< 0.000520		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Chromium	mg/L	<b>0.163</b>		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Copper	mg/L	<b>0.185</b>		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Lead	mg/L	< 0.0156		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Mercury	mg/L	< 0.000200		12/21/16 11:04	B612390	7470A/245.1.3.0- 1994
Molybdenum	mg/L	< 0.0312		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Nickel	mg/L	<b>0.446</b>		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Selenium	mg/L	< 0.0520		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Silver	mg/L	< 0.0208		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
Zinc	mg/L	<b>0.025</b>		12/21/16 12:29	B612392	200.7, Rev 4.4 (1994)
<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
1,1-Dichloroethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
1,1-Dichloroethene	ug/L	< 10.0	E20	12/21/16 13:34	B612397	624 (mod), 1995
1,1,1-Trichloroethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
1,1,2-Trichloroethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
1,1,2,2-Tetrachloroethane	ug/L	< 10.0	E20	12/21/16 13:34	B612397	624 (mod), 1995
1,2-Dichlorobenzene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
1,2-Dichloropropane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
1,2-Dichloroethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
1,3-Dichlorobenzene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
1,4-Dichlorobenzene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
2-Chloroethyl vinyl ether	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Acrylonitrile	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Benzene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Bromodichloromethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Bromoform	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Acrolein	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Bromomethane	ug/L	< 10.0	E20	12/21/16 13:34	B612397	624 (mod), 1995
Carbon tetrachloride	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Chlorobenzene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Chlorodibromomethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Chloroethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995
Chloroform	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod), 1995

**James House**  
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**Date Received: 20-Dec-16 13:00**

**ANALYTICAL RESULTS**


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**Lab Number: 1612304-01**  
**Sample Name: Wastewater Composite**  
**Date/Time Collected: 12/20/16 6:00**  
**Sample Matrix: Water**

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Chloromethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
cis-1,3-Dichloropropene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
Ethylbenzene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
Methylene chloride	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
Tetrachloroethene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
Toluene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
trans-1,2-Dichloroethene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
Trichloroethene	ug/L	< 10.0	E20	12/21/16 13:34	B612397	624 (mod). 1995
trans-1,3-Dichloropropene	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
Vinyl chloride	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
Dichlorodifluoromethane	ug/L	< 10.0		12/21/16 13:34	B612397	624 (mod). 1995
4-Bromofluorobenzene [surr]	%	95.1		12/21/16 13:34	B612397	624 (mod). 1995
1,2-Dichloroethane-d4 [surr]	%	127		12/21/16 13:34	B612397	624 (mod). 1995
Toluene-d8 [surr]	%	100		12/21/16 13:34	B612397	624 (mod). 1995
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
BOD-5	mg/L	26.8	B-02	12/21/16 8:45	B612386	5210 B-2001.Hach 10360
Cyanide (total)	mg/L	< 0.010		12/21/16 12:11	B612374	4500-CN B.E-1999
TSS	mg/L	9.00		12/22/16 10:30	B612388	I-3765-85/SM2540 D-1997

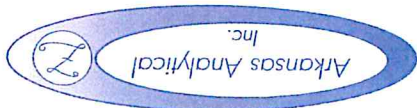
**ANALYTICAL RESULTS**


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**Lab Number: 1612304-02**  
**Sample Name: Wastewater Grab**  
**Date/Time Collected: 12/20/16 6:00**  
**Sample Matrix: Water**

<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Oil and Grease	mg/L	< 3.50		12/22/16 14:40	B612428	1664 Mod. Rev. B 2010

29 December 2016



James House

Kohler-Plating - Sheridan

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**QUALITY CONTROL RESULTS**

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Cyanide (total)	<0.010 mg/L	98.3% / 89.7%	90.3% / NA		9.22%	
Wet Chemistry -- Batch: B612374 (Water)						
Prepared: 20-Dec-16 14:58 By: CAS -- Analyzed: 21-Dec-16 12:11 By: CAS						
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
BOD-5	<2.00 mg/L	82.1% / 106%	NA / NA		25.5%	B-03, D
Wet Chemistry -- Batch: B612386 (Water)						
Prepared: 21-Dec-16 08:45 By: TA -- Analyzed: 21-Dec-16 08:45 By: SC						
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	104% / 107%	NA / NA		2.84%	
Wet Chemistry -- Batch: B612388 (Water)						
Prepared: 22-Dec-16 10:30 By: TA -- Analyzed: 22-Dec-16 10:30 By: AP						
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Mercury	<0.000200 mg/L	102% / NA	103% / 104%		0.692%	
Total Metals -- Batch: B612390 (Water)						
Prepared: 21-Dec-16 09:38 By: ST -- Analyzed: 21-Dec-16 11:02 By: ST						
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Arsenic	<0.0104 mg/L	97.3% / NA	104% / 102%		1.93%	
Cadmium	<0.000520 mg/L	102% / NA	102% / 100%		1.52%	
Chromium	<0.0104 mg/L	101% / NA	100% / 98.7%		1.28%	
Copper	<0.005 mg/L	94.9% / NA	91.3% / 89.9%		1.07%	
Lead	<0.0156 mg/L	102% / NA	96.7% / 94.8%		1.96%	
Molybdenum	<0.0312 mg/L	98.1% / NA	102% / 101%		1.21%	
Nickel	<0.0104 mg/L	99.3% / NA	98.0% / 96.5%		0.850%	
Selenium	<0.0520 mg/L	97.0% / NA	98.8% / 97.5%		1.29%	
Silver	<0.0208 mg/L	99.1% / NA	91.8% / 89.8%		2.20%	
Total Metals -- Batch: B612392 (Water)						
Prepared: 21-Dec-16 11:20 By: HF -- Analyzed: 21-Dec-16 12:25 By: HF						
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers

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**QUALITY CONTROL RESULTS**

Volatiles -- Batch: B612397 (Water)

Prepared: 21-Dec-16 10:53 By: KR -- Analyzed: 21-Dec-16 15:30 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,1,1-Trichloroethane	<10.0 ug/L	117% / NA	99.4% / 106%		6.88%	
1,1,2,2-Tetrachloroethane	<10.0 ug/L	99.7% / NA	50.7% / 58.4%		14.1%	%D1
1,1,2-Trichloroethane	<10.0 ug/L	108% / NA	106% / 106%		0.561%	
1,1-Dichloroethane	<10.0 ug/L	123% / NA	106% / 106%		0.189%	
1,1-Dichloroethene	<10.0 ug/L	118% / NA	60.5% / 86.1%		34.9%	D
1,2-Dichlorobenzene	<10.0 ug/L	105% / NA	101% / 107%		5.54%	
1,2-Dichloroethane	<10.0 ug/L	126% / NA	123% / 119%		3.37%	
1,2-Dichloropropane	<10.0 ug/L	111% / NA	110% / 104%		5.71%	
1,3-Dichlorobenzene	<10.0 ug/L	104% / NA	103% / 101%		2.05%	
1,4-Dichlorobenzene	<10.0 ug/L	102% / NA	104% / 106%		1.83%	
2-Chloroethyl vinyl ether	<10.0 ug/L	107% / NA	104% / 108%		3.30%	
Acrolein	<10.0 ug/L	88.2% / NA	9.82% / 29.5%		%	E5
Acrylonitrile	<10.0 ug/L	99.4% / NA	86.4% / 86.0%		0.426%	
Benzene	<10.0 ug/L	119% / NA	101% / 99.7%		1.38%	
Bromodichloromethane	<10.0 ug/L	106% / NA	103% / 105%		2.43%	
Bromoform	<10.0 ug/L	99.2% / NA	100% / 90.9%		9.60%	
Bromomethane	<10.0 ug/L	123% / NA	56.3% / 106%		61.0%	D
Carbon tetrachloride	<10.0 ug/L	117% / NA	102% / 109%		6.34%	
Chlorobenzene	<10.0 ug/L	112% / NA	104% / 108%		3.70%	
Chlorodibromomethane	<10.0 ug/L	106% / NA	104% / 100%		3.74%	
Chloroethane	<10.0 ug/L	111% / NA	67.0% / 91.6%		31.0%	D
Chloroform	<10.0 ug/L	102% / NA	95.0% / 98.0%		3.03%	
Chloromethane	<10.0 ug/L	117% / NA	103% / 95.3%		7.76%	
cis-1,3-Dichloropropene	<10.0 ug/L	107% / NA	113% / 102%		10.3%	
Dichlorodifluoromethane	<10.0 ug/L	127% / NA	99.4% / 112%		12.0%	
Ethylbenzene	<10.0 ug/L	113% / NA	102% / 104%		2.31%	
Methylene chloride	<10.0 ug/L	102% / NA	98.3% / 91.4%		7.31%	
Tetrachloroethene	<10.0 ug/L	114% / NA	101% / 104%		2.44%	
Toluene	<10.0 ug/L	109% / NA	100% / 96.6%		3.46%	
trans-1,2-Dichloroethene	<10.0 ug/L	113% / NA	105% / 106%		0.958%	
trans-1,3-Dichloropropene	<10.0 ug/L	108% / NA	105% / 106%		0.919%	
Trichloroethene	<10.0 ug/L	104% / NA	131% / 126%		4.47%	%D1
Vinyl chloride	<10.0 ug/L	126% / NA	105% / 110%		4.68%	
1,2-Dichloroethane-d4 [surr]	122 %	122% / NA	115% / 110%		NA	
4-Bromofluorobenzene [surr]	93.2 %	98.5% / NA	97.8% / 95.2%		NA	
Toluene-d8 [surr]	97.0 %	108% / NA	104% / 106%		NA	



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### QUALITY CONTROL RESULTS

Pesticides/PCBs -- Batch: B612414 (Water)

Prepared: 21-Dec-16 15:14 By: MB -- Analyzed: 27-Dec-16 11:31 By: MB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
4,4'-DDD	<0.100 ug/L	123% / NA	89.5% / 46.7%		55.9%	D
4,4'-DDE	<0.100 ug/L	100% / NA	81.7% / 52.5%		43.6%	D
4,4'-DDT	<0.020 ug/L	125% / NA	99.3% / 61.0%		47.7%	D
Aldrin	<0.010 ug/L	71.3% / NA	63.2% / 50.0%		21.8%	D
alpha-BHC	<0.050 ug/L	88.4% / NA	60.0% / 50.9%		12.6%	
beta-BHC	<0.050 ug/L	80.9% / NA	74.6% / 70.1%		6.16%	
delta-BHC	<0.050 ug/L	127% / NA	98.7% / 70.7%		33.1%	D
Dieldrin	<0.020 ug/L	111% / NA	114% / 65.3%		51.7%	D
Endosulfan I	<0.010 ug/L	80.9% / NA	72.1% / 54.3%		28.2%	D
Endosulfan II	<0.020 ug/L	122% / NA	119% / 73.7%		47.0%	D
Endosulfan sulfate	<0.100 ug/L	126% / NA	77.5% / 31.6%		54.7%	D
Endrin	<0.020 ug/L	133% / NA	128% / 81.4%		44.3%	D
Endrin aldehyde	<0.100 ug/L	126% / NA	77.1% / 35.8%		50.5%	D
gamma-BHC (Lindane)	<0.050 ug/L	82.0% / NA	78.1% / 64.3%		19.4%	
Heptachlor	<0.010 ug/L	108% / NA	91.4% / 72.9%		22.5%	
Heptachlor epoxide	<0.010 ug/L	108% / NA	87.0% / 58.6%		38.9%	D
DCBP [surr]	127 %	160% / NA	104% / 38.0%		NA	
TCMX [surr]	109 %	133% / NA	80.9% / 58.2%		NA	



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**QUALITY CONTROL RESULTS**

Base/Neutral Compounds -- Batch: B612415 (Water)

Prepared: 21-Dec-16 15:27 By: KR -- Analyzed: 22-Dec-16 15:15 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,2,4-Trichlorobenzene	<10.0 ug/L	75.8% / NA	62.5% / 53.3%		15.9%	
1,2-Dichlorobenzene	<10.0 ug/L	77.4% / NA	58.1% / 55.0%		5.61%	
1,2-Diphenyl Hydrazine	<10.0 ug/L	114% / NA	92.2% / 78.9%		15.6%	
1,3-Dichlorobenzene	<10.0 ug/L	79.0% / NA	63.4% / 56.3%		11.8%	
1,4-Dichlorobenzene	<10.0 ug/L	78.4% / NA	62.8% / 57.7%		8.48%	
2,2'-Oxybis(1-Chloropropane)	<10.0 ug/L	84.8% / NA	65.4% / 57.9%		12.2%	
2,4,6-Trichlorophenol	<10.0 ug/L	59.5% / NA	48.8% / 48.5%		0.678%	
2,4-Dichlorophenol	<10.0 ug/L	88.2% / NA	71.6% / 68.0%		5.18%	
2,4-Dimethylphenol	<10.0 ug/L	81.2% / NA	62.3% / 60.5%		2.83%	
2,4-Dinitrophenol	<10.0 ug/L	115% / NA	94.8% / 108%		13.2%	%D2, E5
2,4-Dinitrotoluene	<10.0 ug/L	85.0% / NA	67.9% / 70.2%		3.22%	
2,6-Dinitrotoluene	<10.0 ug/L	92.8% / NA	79.8% / 78.4%		1.72%	
2-Chloronaphthalene	<10.0 ug/L	83.7% / NA	67.1% / 66.6%		0.696%	
2-Chlorophenol	<10.0 ug/L	92.0% / NA	68.1% / 62.5%		8.62%	
2-Nitrophenol	<10.0 ug/L	84.0% / NA	72.8% / 63.1%		14.2%	
3,3'-Dichlorobenzidine	<10.0 ug/L	111% / NA	97.6% / 87.4%		11.0%	
4,6-Dinitro-2-methylphenol	<10.0 ug/L	126% / NA	90.5% / 94.0%		3.80%	
4-Bromophenyl-phenylether	<10.0 ug/L	109% / NA	81.6% / 77.2%		5.49%	
4-Chloro-3-methylphenol	<10.0 ug/L	91.6% / NA	80.6% / 74.2%		8.27%	
4-Chlorophenyl-phenylether	<10.0 ug/L	80.9% / NA	67.0% / 69.4%		3.53%	
4-Nitrophenol	<10.0 ug/L	60.0% / NA	46.9% / 53.4%		12.9%	
Acenaphthene	<10.0 ug/L	92.6% / NA	69.0% / 68.5%		0.822%	
Acenaphthylene	<10.0 ug/L	92.2% / NA	72.7% / 69.7%		4.12%	
Anthracene	<10.0 ug/L	107% / NA	65.6% / 73.0%		10.7%	
Benzidine	<10.0 ug/L	64.2% / NA	25.0% / 22.7%		9.72%	
Benzo (a) anthracene	<10.0 ug/L	126% / NA	90.1% / 80.0%		11.9%	
Benzo[a]pyrene	<10.0 ug/L	105% / NA	91.7% / 86.8%		5.52%	
Benzo[b]fluoranthene	<10.0 ug/L	108% / NA	91.9% / 81.6%		11.9%	
Benzo[g,h,i]perylene	<10.0 ug/L	107% / NA	107% / 96.0%		10.5%	
Benzo[k]fluoranthene	<10.0 ug/L	105% / NA	84.2% / 83.1%		1.29%	
Bis(2-chloroethoxy)methane	<10.0 ug/L	79.6% / NA	64.1% / 60.8%		5.32%	
Bis(2-chloroethyl)ether	<10.0 ug/L	89.7% / NA	64.4% / 61.7%		4.42%	
Bis(2-ethylhexyl)phthalate	<10.0 ug/L	124% / NA	73.5% / 60.7%		19.1%	
Butylbenzylphthalate	<10.0 ug/L	118% / NA	70.4% / 71.4%		1.40%	
Chrysene	<10.0 ug/L	110% / NA	66.1% / 66.4%		0.430%	
Dibenz[a,h]anthracene	<10.0 ug/L	104% / NA	95.1% / 96.4%		1.35%	
Diethylphthalate	<10.0 ug/L	91.7% / NA	76.7% / 71.9%		6.52%	
Dimethylphthalate	<10.0 ug/L	85.9% / NA	69.6% / 74.0%		6.18%	
Di-n-butylphthalate	<10.0 ug/L	122% / NA	82.7% / 79.1%		4.52%	%D2, E5
Di-n-octylphthalate	<10.0 ug/L	103% / NA	86.8% / 83.4%		4.05%	
Fluorene	<10.0 ug/L	86.7% / NA	70.9% / 66.6%		6.28%	
Hexachlorobenzene	<10.0 ug/L	99.8% / NA	75.3% / 77.5%		2.87%	
Hexachlorobutadiene	<10.0 ug/L	70.4% / NA	56.8% / 55.0%		3.29%	
Hexachlorocyclopentadiene	<10.0 ug/L	98.0% / NA	66.7% / 63.4%		5.06%	
Hexachloroethane	<10.0 ug/L	78.3% / NA	61.8% / 56.3%		9.36%	
Indeno[1,2,3-cd]pyrene	<10.0 ug/L	104% / NA	98.7% / 96.6%		2.18%	
Isophorone	<10.0 ug/L	82.9% / NA	67.0% / 63.4%		5.62%	
Naphthalene	<10.0 ug/L	78.0% / NA	60.8% / 55.6%		9.09%	



James House  
 Kohler-Plating - Sheridan  
 415 S Oklahoma St.  
 Sheridan, AR 72150  
 Project: Semiannual Wastewater Sample(s)  
 Project Number: December 2016  
 Date Received: 20-Dec-16 13:00

**QUALITY CONTROL RESULTS**

**Base/Neutral Compounds -- Batch: B612415 (Water)**

Prepared: 21-Dec-16 15:27 By: KR -- Analyzed: 22-Dec-16 15:15 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Nitrobenzene	<10.0 ug/L	82.6% / NA	62.0% / 57.7%		7.30%	
N-Nitrosodimethylamine	<10.0 ug/L	71.4% / NA	54.8% / 53.1%		3.32%	
N-Nitroso-di-n-propylamine	<10.0 ug/L	80.1% / NA	68.2% / 59.2%		14.0%	
N-Nitrosodiphenylamine/diphenylamine	<10.0 ug/L	82.2% / NA	66.1% / 62.5%		5.65%	
Pentachlorophenol	<10.0 ug/L	104% / NA	74.6% / 74.0%		0.765%	
Phenanthrene	<10.0 ug/L	104% / NA	77.6% / 74.5%		4.09%	
Phenol	<10.0 ug/L	52.4% / NA	40.4% / 35.8%		12.0%	
Pyrene	<10.0 ug/L	111% / NA	82.7% / 81.7%		1.17%	
2,4,6-Tribromophenol [surr]	98.5 %	102% / NA	85.9% / 103%		NA	
2-Fluorobiphenyl [surr]	94.8 %	97.0% / NA	74.0% / 76.4%		NA	
2-Fluorophenol [surr]	65.4 %	67.8% / NA	51.4% / 48.9%		NA	
Nitrobenzene-d5 [surr]	103 %	86.6% / NA	74.9% / 67.7%		NA	
Phenol-d5 [surr]	54.1 %	53.8% / NA	44.2% / 39.6%		NA	
Terphenyl-d14 [surr]	133 %	143% / NA	115% / 121%		NA	

**Wet Chemistry -- Batch: B612428 (Water)**

Prepared: 22-Dec-16 08:02 By: SP -- Analyzed: 22-Dec-16 14:40 By: SP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Oil and Grease	<3.50 mg/L	85.5% / 86.5%	83.0% / NA		1.16%	

**QUALIFIER(S)**

- \*%D1: Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
- \*%D2: Laboratory Control Spike and/or Laboratory Control Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
- \*B-02: Method requirements for residual oxygen failed. Data is qualified as estimated.
- \*B-03: The dissolved oxygen depletion of the blank is greater than 0.2 mg/L.
- \*D: RPD Value 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.
- \*E5: Estimated Result Due to Quality Control Failure


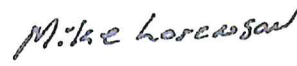

All Analysis performed according to EPA approved methodology when available:  
 SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
 Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: Norma James / Teresa Coins  
 Norma James and/or Teresa Coins  
 Technical Director and/or QA Officer



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		Preservation Codes:													
Kohler 415 South Oklahoma St. Sheridan, AR 72150 Attn: James House				Semi-Annual Wastewater Sample			1 Day (100%) 2 Day (50%) 3 Day (25%) 5 Day (Routine)		1. Cool, 4 Degrees Centigrade 2. Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ), pH < 2 3. Nitric Acid (HNO <sub>3</sub> ), pH < 2					4. Thiosulfate for Dechlorination 5. Hydrochloric Acid(HCl) 6. Sodium Hydroxide (NaOH), pH > 12								
				Reporting Information			Telephone: 870-942-2111		TEST PARAMETERS										Bottle Type Code			
				Email: james.house@kohler.com, joe.mcelroy@kohler.com, neal.hollinger@kohler.com			Preservative Code:		1	1,6	1,3	1	1	1	1,2							G = Glass; P = Plastic V = Septum; A = Amber
				Bottle Type:			P	P	P	GV	GA	GA	GA									
 Sampler(s) Signature				 Sampler(s) Printed																		
Field Number	SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION														Arkansas Analytical Work Order Number:	
	Date/s	Time/s																				
	12/19-12/20-2016	6AM-6AM		X	9	Water	Wastewater Composite														1612304 01	
	12/20/2016	6AM	X		1	Water	Wastewater Grab														02	
	12/20/2016	6AM	X		1	Water	Wastewater Grab - Lab QC Sample														1	
<p style="color: red;">Incorrect Container/Preservation            incorrect container and/or preservation            for <u>VOA-Headspace</u> analysis(es).            Data will be qualified.</p>																						
1. Relinquished by: (Signature)			Date/Time		2. Received by: (Signature)			SAMPLE CONDITION UPON RECEIPT IN LAB										REMARKS / SAMPLE COMMENTS				
			12/20/2016 8:50 AM		Parrish			1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes ___ No 2. CONTAINERS CORRECT: <input checked="" type="checkbox"/> Yes ___ No 3. COC/LABELS AGREE: <input checked="" type="checkbox"/> Yes ___ No 4. RECEIVED ON ICE: <input checked="" type="checkbox"/> Yes ___ No 5. TEMPERATURE ON RECEIPT: 4 °C 6. TEMPERATURE GUN ID: HHT# 2										ONSITE MEASUREMENTS BY Kohler pH (S.U.) 7.04 Flow 102,500				
3. Relinquished by: (Signature)			Date/Time		4. Received by lab: (Signature)			FOR COMPLETION BY LAB ONLY														
Parrish			12/20/16 1300		Jimmy Riddle																	

**Facility Name/Location**

Name: KOHLER Co.

P.O. Box 427

Sheridan, AR 72150

Facility: Sheridan Faucet Plant

Location: Oklahoma Street

Sheridan 001  
Permit Number001 treated water  
Discharge Number

## Monitoring Period

Year	MO	Day	To	Year	MO	Day
16	12	01		16	12	01

Parameter		Quantity or Loading			Quality or Concentration			Units	No. Ex	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum				
FLOW	Sample Measurement	0.10	0.12		----	----	----	mg/l.	Ø	1-Yr.	24 Hr. Comp.
	Permit Requirement	Report 30 day Avg	Report Daily Max		----	----	----			1-Yr.	24 Hr. Comp.
Ph	Sample Measurement				6.68	7.00	7.28	mg/l.	Ø	1-Yr.	24 Hr. Comp.
	Permit Requirement				6.0	----	9.0			1-Yr.	24 Hr. Comp.
BOD	Sample Measurement				----	----	26.80	mg/l.	Ø	1-Yr.	24 Hr. Comp.
	Permit Requirement				----	----	250			1-Yr.	24 Hr. Comp.
TTO	Sample Measurement				----	----	ND	mg/l.	Ø	1-Yr.	24 Hr. Comp.
	Permit Requirement				----	----	2.13			1-Yr.	24 Hr. Comp.
CYANIDE	Sample Measurement				(Submit Written "No Usage" Certification)			mg/l.	Ø	1-Yr.	24 Hr. Comp.
	Permit Requirement									1-Yr.	24 Hr. Comp.
	Sample Measurement							mg/l.		1-Yr.	24 Hr. Comp.
	Permit Requirement									1-Yr.	24 Hr. Comp.
	Sample Measurement							mg/l.		1-Yr.	24 Hr. Comp.
	Permit Requirement									1-Yr.	24 Hr. Comp.
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information. I believe the submitted 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.</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Signature of Principal Executive Officer or Authorized Agent</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Date:</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Phone</p> </div>					
								<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">870 942-2111</p> </div>			
<div style="border: 1px solid black; padding: 5px;"> <p>Name/Title Principal Executive Officer Bill Armstrong Safety/Environmental Coordinator James House</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Area Code Number</p> </div>									

## DISCHARGE MONITORING REPORT (DMR)

**Facility Name/Location**

Name: KOHLER Co.  
P.O. Box 427  
Sheridan, AR 72150

Facility: Sheridan Faucet Plant  
 Location: Oklahoma Street

Sheridan 001  
Permit Number

001 Treated Water  
Discharge Number

DMRFORM

Monitoring Period						
Year	MO	Day		Year	MO	Day
From <u>16</u>	<u>12</u>	<u>01</u>	To	<u>16</u>	<u>12</u>	<u>31</u>

Parameter	<del>X</del>	Quantity or Loading			Quality or Concentration			No. Ex	Frequency of Analysis	Sample Type	
		Average	Maximum	Units	Minimum	Average	Maximum				Units
CHROMIUM (T)	Sample Measurement				-----	<u>0.32</u>	<u>0.48</u>	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				-----	1.71	2.77			1-Yr.	24 Hr. Comp.
COPPER	Sample Measurement				-----	<u>0.28</u>	<u>0.37</u>	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				-----	1.25	2.04			1-Yr.	24 Hr. Comp.
NICKEL	Sample Measurement				-----	<u>0.66</u>	<u>1.44</u>	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				-----	2.38	3.98			1-Yr.	24 Hr. Comp.
ZINC	Sample Measurement				-----	<u>0.06</u>	<u>0.12</u>	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				-----	1.48	2.61			1-Yr.	24 Hr. Comp.
OIL & GREASE	Sample Measurement				-----	-----	<u>&lt;3.50</u>	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				-----	-----	50			1-Yr.	24 Hr. Comp.
TSS	Sample Measurement				-----	-----	<u>9.00</u>	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				-----	-----	250			1-Yr.	24 Hr. Comp.
	Sample Measurement							mg/l.		1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>									1-Yr.	24 Hr. Comp.

<del>X</del>	I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information. I believe the submitted 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.	<del>X</del>
Name/Title Principal Executive Officer Bill Armstrong Safety/Environmental Coordinator James House		Date:  Phone 870 942-2111 Area Code Number
	Signature of Principal Executive Officer or Authorized Agent	

# DISCHARGE MONITORING REPORT (DMR)

**Facility Name/Location**

Name: KOHLER Co.  
P.O. Box 427  
Sheridan, AR 72150  
 Facility: Sheridan Faucet Plant  
 Location: Oklahoma Street

Sheridan OO1  
Permit Number

OO1 Treated Water  
Discharge Number

DMRFORM

Monitoring Period						
Year	MO	Day	To	Year	MO	Day
16	12	01		16	12	31

Parameter	<del>X</del>	Quantiy or Loading			Quality or Concentration			Units	No. Ex	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum				
CADMIUM	Sample Measurement				----	ND	ND	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				----	0.26	0.69			1-Yr.	24 Hr. Comp.
LEAD	Sample Measurement				----	ND	ND	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				----	0.43	0.69			1-Yr.	24 Hr. Comp.
SILVER	Sample Measurement				----	ND	ND	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				----	0.24	0.43			1-Yr.	24 Hr. Comp.
ARSENIC	Sample Measurement				----	ND	ND	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				----	Report	Report			1-Yr.	24 Hr. Comp.
MERCURY	Sample Measurement				----	ND	ND	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				----	Report	Report			1-Yr.	24 Hr. Comp.
MOLYBDENUM	Sample Measurement				----	ND	ND	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				----	Report	Report			1-Yr.	24 Hr. Comp.
SELENIUM	Sample Measurement				----	ND	ND	mg/l.	<del>Ø</del>	1-Yr.	24 Hr. Comp.
	<b>Permit Requirement</b>				----	Report	Report			1-Yr.	24 Hr. Comp.
<del>X</del>		I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information. I believe the submitted 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.						<del>X</del>			
Name/Title Principal Executive Officer								Date:			
Bill Armstrong								Phone			
Safety/Enviromental Coordinator								870 942-2111			
James House		Signature of Principal Executive Officer or Authorized Agent						Area Code Number			

October			4 WEEK		MAX. FLOW
			DMR		0.00
2016	DISCHARGE REPORT WORKSHEET				0.00
DATE	10/04/16	10/11/16	10/18/16	10/26/16	DAILY AVG.
FLOW	103700	109300	101000	128200	110550
FLOW	0.10	0.11	0.10	0.13	0.11
FACTOR	0.87	0.91	0.84	1.07	0.92
pH	6.74	7.20	6.75	7.14	6.96
CHROME	0.21	0.40	0.22	0.19	0.26
"	0.18	0.37	0.18	0.20	0.24
COPPER	0.12	0.10	0.18	0.11	0.13
"	0.11	0.09	0.15	0.12	0.12
NICKEL	0.60	0.46	0.96	1.14	0.79
"	0.52	0.42	0.81	1.22	0.73
ZINC	0.19	0.03	0.13	0.09	0.11
"	0.16	0.03	0.11	0.10	0.10
TSS	5.00	1.50	5.00	2.50	3.50
"	4.33	1.37	4.21	2.67	3.23
O&GR	<3.50	<3.50	<3.50	<3.50	0.00
"	#VALUE!	#VALUE!	#VALUE!	#VALUE!	0.00
BOD	9.84				
"	8.52	#VALUE!	0.00	#VALUE!	#VALUE!