

Gage, Hannah

From: Gilliam, Allen
Sent: Wednesday, February 17, 2016 2:45 PM
To: james house; 'lewis.strate@kohler.com'
Cc: 'Norma James'; 'Sydney James'; 'STRATE LEWIS'; 'Teresa Coins'; Gage, Hannah; sheridan david fitzgerald
Subject: AR0034347_KOHLERs ARP000021 addendum to complete the Jan 2016 semi-annual Pretreatment report_20160217
Attachments: 1512143 -- semi annual.pdf

James,

With the attached/additional analyticals, KOHLER's January 2016 is deemed complete with the reporting requirements in 40 CFR s403.12(e) and compliant with the Metal Finishing standards in 40 CFR 433.15.

Please ensure all pertinent analyticals are attached to future semi-annual reports. The lab's QA/QC sheets are not necessary for this office's records, just the analytical results. The QA/QC sheets are for you to help determine if your samples are valid/accurate.

Thank you for your attention to this matter.

Sincerely,

Allen Gilliam
ADEQ State Pretreatment Coordinator
501.682.0625

ec: David Fitzgerald, Sheridan Water Works Manager

E/NPDES/NPDES/Pretreatment/Reports

From: Teresa Coins [<mailto:tcoins@arkansasanalytical.com>]
Sent: Wednesday, February 17, 2016 2:18 PM
To: Gilliam, Allen
Cc: 'Norma James'; 'Sydney James'; 'STRATE LEWIS'
Subject: RE: AR0034347_KOHLERs ARP000021 Jan 2016 semi-annual Pretreatment report_20160216

Mr. Gilliam,

Attached please find a report for Kohler's semi-annual pretreatment as requested by Lewis Strate. Thank you!

Teresa Coins
Quality Assurance/Quality Control Officer



8100 National Drive

Little Rock, AR 72209

(501)455-3233

(501)455-6118 (fax)

email: tcoins@arkansasanalytical.com

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11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

04 January 2016

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

Project: Semiannual Wastewater Sample(s)

Project Number: December 2015

SDG Number: 1512143

Enclosed are the results of analyses for samples received by the laboratory on 08-Dec-15 15:23. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

<u>Custody Seals</u>	✓
<u>Containers Correct</u>	✓
<u>COC/Labels Agree</u>	✓
<u>Received On Ice</u>	✓
Temperature on Receipt	3.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James / Teresa Coins".

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

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04 January 2016



James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: December 2015
Date Received: 08-Dec-15 15:23

CASE NARRATIVE

Sample Delivery Group – 1512143

One OR more of the qualifiers described below may appear in this report.

QUALITY CONTROL QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
E20	Sample used as "parent" for the associated analytical batch.
%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.
%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.

SAMPLE RECEIPT QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
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.

CALIBRATION QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
CR	Result above highest calibration standard, but within linear calibration range.
Est3	Result at the instrument was above the concentration of the highest standard in the calibration curve.
E5	Second Source Verification Failure
E7	Internal Standard Response Failure
E11	Initial Calibration Minimum Response Factor Failure
E21	CCV Low
E-01	CCV High
E35	Low Level CCV Failure

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Project: Semiannual Wastewater Sample(s)
Project Number: December 2015
Date Received: 08-Dec-15 15:23

ANALYTICAL RESULTS

Lab Number: 1512143-01
Sample Name: Wastewater Composite
Date/Time Collected: 12/8/15 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		12/10/15 16:42	A512131	625 (mod.)
2,4-Dichlorophenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2,4-Dimethylphenol	ug/L	< 10.0	E20	12/10/15 16:42	A512131	625 (mod.)
2,4-Dinitrophenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2-Chlorophenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2-Nitrophenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
4-Chloro-3-methylphenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
4-Nitrophenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
4,6-Dinitro-2-methylphenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Pentachlorophenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Phenol	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2,4,6-Tribromophenol [surr]	%	78.3		12/10/15 16:42	A512131	625 (mod.)
2-Fluorophenol [surr]	%	36.9		12/10/15 16:42	A512131	625 (mod.)
Phenol-d5 [surr]	%	28.3		12/10/15 16:42	A512131	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		12/10/15 16:42	A512131	625 (mod.)
1,2-Dichlorobenzene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
1,2-Diphenyl Hydrazine	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
1,3-Dichlorobenzene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
1,4-Dichlorobenzene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2,3,7,8-TCDD Screen	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2,4-Dinitrotoluene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2,6-Dinitrotoluene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2-Chloronaphthalene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
3,3'-Dichlorobenzidine	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
4-Bromophenyl-phenylether	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
4-Chlorophenyl-phenylether	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Acenaphthene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Acenaphthylene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Anthracene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Benzidine	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Benzo[a]pyrene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Benzo[b]fluoranthene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Benzo[g,h,i]perylene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Benzo[k]fluoranthene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Benzo (a) anthracene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Bis(2-chloroethoxy)methane	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Bis(2-chloroethyl)ether	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Bis(2-chloroisopropyl)ether	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Bis(2-ethylhexyl)phthalate	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Butylbenzylphthalate	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Chrysene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Dibenz[a,h]anthracene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)

James House
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Project: Semiannual Wastewater Sample(s)
Project Number: December 2015
Date Received: 08-Dec-15 15:23

ANALYTICAL RESULTS

Lab Number: 1512143-01
Sample Name: Wastewater Composite
Date/Time Collected: 12/8/15 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>
Diethylphthalate	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Dimethylphthalate	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Di-n-butylphthalate	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Di-n-octylphthalate	ug/L	< 10.0	E21	12/10/15 16:42	A512131	625 (mod.)
Fluorene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Hexachlorobenzene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Hexachlorobutadiene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Hexachlorocyclopentadiene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Hexachloroethane	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Indeno[1,2,3-cd]pyrene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Isophorone	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Naphthalene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Nitrobenzene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
N-Nitrosodimethylamine	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
N-Nitroso-di-n-propylamine	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
N-Nitrosodiphenylamine/diphenylamine	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Phenanthrene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
Pyrene	ug/L	< 10.0		12/10/15 16:42	A512131	625 (mod.)
2-Fluorobiphenyl [surr]	%	48.6		12/10/15 16:42	A512131	625 (mod.)
Nitrobenzene-d5 [surr]	%	59.6		12/10/15 16:42	A512131	625 (mod.)
Terphenyl-d14 [surr]	%	82.6		12/10/15 16:42	A512131	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		12/28/15 16:22	A512362	608
alpha-BHC	ug/L	< 0.050		12/28/15 16:22	A512362	608
beta-BHC	ug/L	< 0.050		12/28/15 16:22	A512362	608
gamma-BHC (Lindane)	ug/L	< 0.050		12/28/15 16:22	A512362	608
delta-BHC	ug/L	< 0.050		12/28/15 16:22	A512362	608
Chlordane	ug/L	< 0.200	E-01	12/28/15 16:22	A512362	608
4,4'-DDT	ug/L	< 0.020		12/28/15 16:22	A512362	608
4,4'-DDE	ug/L	< 0.100		12/28/15 16:22	A512362	608
4,4'-DDD	ug/L	< 0.100	E-01	12/28/15 16:22	A512362	608
Dieldrin	ug/L	< 0.020		12/28/15 16:22	A512362	608
Endosulfan I	ug/L	< 0.010	E21	12/28/15 16:22	A512362	608
Endosulfan II	ug/L	< 0.020		12/28/15 16:22	A512362	608
Endosulfan sulfate	ug/L	< 0.100	E-01	12/28/15 16:22	A512362	608
Endrin	ug/L	< 0.020	E-01	12/28/15 16:22	A512362	608
Endrin aldehyde	ug/L	< 0.100	E21	12/28/15 16:22	A512362	608
Heptachlor	ug/L	< 0.010		12/28/15 16:22	A512362	608
Heptachlor epoxide	ug/L	< 0.010		12/28/15 16:22	A512362	608
Chlorpyrifos	ug/L	< 0.070	E21	12/28/15 16:22	A512362	608
Aroclor-1242	ug/L	< 0.200		12/28/15 16:22	A512362	608
Aroclor-1254	ug/L	< 0.200		12/28/15 16:22	A512362	608
Aroclor-1221	ug/L	< 0.200		12/28/15 16:22	A512362	608

James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: December 2015
Date Received: 08-Dec-15 15:23

ANALYTICAL RESULTS

Lab Number:		1512143-01				
Sample Name:		Wastewater Composite				
Date/Time Collected:		12/8/15 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		12/28/15 16:22	A512362	608
Aroclor-1248	ug/L	< 0.200		12/28/15 16:22	A512362	608
Aroclor-1260	ug/L	< 0.200		12/28/15 16:22	A512362	608
Aroclor-1016	ug/L	< 0.200		12/28/15 16:22	A512362	608
Toxaphene	ug/L	< 0.300		12/28/15 16:22	A512362	608
TCMX [surr]	%	45.2		12/28/15 16:22	A512362	608
DCBP [surr]	%	60.1		12/28/15 16:22	A512362	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	0.0118		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Cadmium	mg/L	< 0.000520		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Chromium	mg/L	0.482		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Copper	mg/L	0.838		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Lead	mg/L	< 0.0156		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Mercury	mg/L	< 0.000200		12/9/15 14:42	A512125	7470A/245.1,3.0- 1994
Molybdenum	mg/L	< 0.0312		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Nickel	mg/L	0.315		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Selenium	mg/L	< 0.0520		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Silver	mg/L	< 0.0208		12/11/15 12:00	A512137	200.7, Rev 4.4 (1994)
Zinc	mg/L	0.207		12/11/15 12:00	A512137	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	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,1-Dichloroethene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,1,1-Trichloroethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,1,2-Trichloroethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,1,2,2-Tetrachloroethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,2-Dichlorobenzene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,2-Dichloropropane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,2-Dichloroethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,3-Dichlorobenzene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
1,4-Dichlorobenzene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
2-Chloroethyl vinyl ether	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Acrylonitrile	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Benzene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Bromodichloromethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Bromoform	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Acrolein	ug/L	< 20.0	E21, E3, E5	12/9/15 21:58	A512111	624 (mod.), 1995
Bromomethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Carbon tetrachloride	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Chlorobenzene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Chlorodibromomethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Chloroethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Chloroform	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995

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Project Number: December 2015
Date Received: 08-Dec-15 15:23

ANALYTICAL RESULTS

Lab Number: 1512143-01
Sample Name: Wastewater Composite
Date/Time Collected: 12/8/15 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	E3	12/9/15 21:58	A512111	624 (mod.), 1995
cis-1,3-Dichloropropene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Ethylbenzene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Methylene chloride	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Tetrachloroethene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Toluene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
trans-1,2-Dichloroethene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Trichloroethene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
trans-1,3-Dichloropropene	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Vinyl chloride	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
Dichlorodifluoromethane	ug/L	< 10.0	E3	12/9/15 21:58	A512111	624 (mod.), 1995
4-Bromofluorobenzene [surr]	%	95.6		12/9/15 21:58	A512111	624 (mod.), 1995
1,2-Dichloroethane-d4 [surr]	%	111		12/9/15 21:58	A512111	624 (mod.), 1995
Toluene-d8 [surr]	%	108		12/9/15 21:58	A512111	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	9.92		12/9/15 10:00	A512105	5210 B-2001,Hach 10360
Cyanide (total)	mg/L	< 0.010		12/9/15 17:04	A512112	4500-CN B,E-1999
TSS	mg/L	5.00		12/9/15 12:05	A512106	2540 D-1997

ANALYTICAL RESULTS

Lab Number: 1512143-02
Sample Name: Wastewater Grab
Date/Time Collected: 12/8/15 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		12/16/15 12:44	A512176	1664 Mod, Rev. B 2010

James House
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Project Number: December 2015
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QUALITY CONTROL RESULTS**Wet Chemistry -- Batch: A512105 (Water)**

Prepared: 09-Dec-15 10:00 By: TA -- Analyzed: 09-Dec-15 10:00 By: TA

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
BOD-5	<2.00 mg/L	91.9% / 109%	NA / NA		16.6%	

Wet Chemistry -- Batch: A512106 (Water)

Prepared: 09-Dec-15 12:05 By: TA -- Analyzed: 09-Dec-15 12:05 By: TA

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	98.0% / 98.0%	NA / NA		0.00%	

Volatiles -- Batch: A512111 (Water)

Prepared: 09-Dec-15 10:25 By: CT -- Analyzed: 10-Dec-15 10:41 By: ct

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,1,1-Trichloroethane	<10.0 ug/L	99.0% / NA	103% / 104%		0.974%	
1,1,2,2-Tetrachloroethane	<10.0 ug/L	92.0% / NA	99.9% / 108%		7.95%	
1,1,2-Trichloroethane	<10.0 ug/L	110% / NA	111% / 112%		1.31%	
1,1-Dichloroethane	<10.0 ug/L	102% / NA	106% / 112%		6.16%	
1,1-Dichloroethene	<10.0 ug/L	97.3% / NA	100% / 106%		5.63%	
1,2-Dichlorobenzene	<10.0 ug/L	88.3% / NA	91.8% / 94.3%		2.72%	
1,2-Dichloroethane	<10.0 ug/L	107% / NA	108% / 114%		5.66%	
1,2-Dichloropropane	<10.0 ug/L	105% / NA	106% / 111%		4.96%	
1,3-Dichlorobenzene	<10.0 ug/L	89.2% / NA	91.4% / 86.7%		5.23%	
1,4-Dichlorobenzene	<10.0 ug/L	85.1% / NA	93.6% / 89.0%		5.11%	
2-Chloroethyl vinyl ether	<10.0 ug/L	110% / NA	106% / 118%		10.4%	
Acrolein	<10.0 ug/L	55.5% / NA	37.0% / 29.7%		22.0%	E21, E5
Acrylonitrile	<10.0 ug/L	115% / NA	124% / 129%		4.17%	
Benzene	<10.0 ug/L	96.8% / NA	105% / 108%		2.45%	
Bromodichloromethane	<10.0 ug/L	97.8% / NA	102% / 103%		1.04%	
Bromoform	<10.0 ug/L	105% / NA	105% / 106%		0.849%	
Bromomethane	<10.0 ug/L	122% / NA	119% / 123%		3.26%	
Carbon tetrachloride	<10.0 ug/L	101% / NA	104% / 107%		2.53%	
Chlorobenzene	<10.0 ug/L	111% / NA	110% / 106%		3.33%	
Chlorodibromomethane	<10.0 ug/L	100% / NA	107% / 101%		6.03%	
Chloroethane	<10.0 ug/L	109% / NA	113% / 126%		10.9%	
Chloroform	<10.0 ug/L	92.7% / NA	101% / 102%		0.924%	
Chloromethane	<10.0 ug/L	101% / NA	108% / 111%		2.56%	
cis-1,3-Dichloropropene	<10.0 ug/L	105% / NA	106% / 109%		2.51%	
Dichlorodifluoromethane	<10.0 ug/L	94.0% / NA	96.5% / 98.9%		2.53%	
Ethylbenzene	<10.0 ug/L	108% / NA	107% / 99.8%		6.53%	
Methylene chloride	<10.0 ug/L	92.3% / NA	89.0% / 98.8%		10.4%	
Tetrachloroethene	<10.0 ug/L	95.2% / NA	95.7% / 88.2%		8.22%	
Toluene	<10.0 ug/L	107% / NA	103% / 102%		0.429%	
trans-1,2-Dichloroethene	<10.0 ug/L	99.8% / NA	100% / 105%		5.13%	
trans-1,3-Dichloropropene	<10.0 ug/L	101% / NA	102% / 98.3%		3.32%	
Trichloroethene	<10.0 ug/L	96.5% / NA	95.4% / 99.0%		3.66%	
Vinyl chloride	<10.0 ug/L	108% / NA	114% / 117%		2.22%	
1,2-Dichloroethane-d4 [surr]	113 %	105% / NA	108% / 111%		NA	
4-Bromofluorobenzene [surr]	93.6 %	91.1% / NA	97.8% / 96.1%		NA	

04 January 2016



James House
Kohler-Plating - Sheridan
415 S Oklahoma St.
Sheridan, AR 72150
Project: Semiannual Wastewater Sample(s)
Project Number: December 2015
Date Received: 08-Dec-15 15:23

QUALITY CONTROL RESULTS

Volatiles -- Batch: A512111 (Water)

Prepared: 09-Dec-15 10:25 By: CT -- Analyzed: 10-Dec-15 10:41 By: ct

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Toluene-d8 [surr]	106 %	105% / NA	106% / 99.0%		NA	

Wet Chemistry -- Batch: A512112 (Water)

Prepared: 09-Dec-15 10:26 By: JB -- Analyzed: 09-Dec-15 17:04 By: JB

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Cyanide (total)	<0.010 mg/L	65.0% / 64.3%	75.3% / NA		1.03%	

Total Metals -- Batch: A512125 (Water)

Prepared: 09-Dec-15 13:03 By: ST -- Analyzed: 09-Dec-15 14:26 By: ST

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Mercury	<0.000200 mg/L	108% / NA	106% / 106%		0.00%	

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QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: A512131 (Water)

Prepared: 09-Dec-15 13:49 By: KR -- Analyzed: 10-Dec-15 16:21 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,2,4-Trichlorobenzene	<10.0 ug/L	77.8% / NA	46.2% / 49.3%		6.43%	
1,2-Dichlorobenzene	<10.0 ug/L	79.0% / NA	50.2% / 49.2%		1.96%	
1,2-Diphenyl Hydrazine	<10.0 ug/L	93.4% / NA	56.6% / 55.3%		2.37%	
1,3-Dichlorobenzene	<10.0 ug/L	77.1% / NA	50.3% / 48.5%		3.58%	
1,4-Dichlorobenzene	<10.0 ug/L	82.7% / NA	51.3% / 49.9%		2.74%	
2,4,6-Trichlorophenol	<10.0 ug/L	76.4% / NA	49.8% / 48.2%		3.28%	
2,4-Dichlorophenol	<10.0 ug/L	89.9% / NA	52.9% / 57.5%		8.30%	
2,4-Dimethylphenol	<10.0 ug/L	84.8% / NA	47.5% / 53.2%		11.3%	%D1
2,4-Dinitrophenol	<10.0 ug/L	98.3% / NA	62.2% / 56.4%		7.57%	
2,4-Dinitrotoluene	<10.0 ug/L	89.3% / NA	62.1% / 54.5%		13.0%	
2,6-Dinitrotoluene	<10.0 ug/L	102% / NA	59.4% / 57.2%		3.72%	
2-Chloronaphthalene	<10.0 ug/L	94.0% / NA	51.7% / 54.7%		5.56%	
2-Chlorophenol	<10.0 ug/L	92.6% / NA	52.5% / 52.7%		0.357%	
2-Nitrophenol	<10.0 ug/L	83.5% / NA	52.0% / 58.7%		11.9%	
3,3'-Dichlorobenzidine	<10.0 ug/L	156% / NA	118% / 93.5%		23.0%	
4,6-Dinitro-2-methylphenol	<10.0 ug/L	94.9% / NA	69.7% / 61.8%		11.0%	
4-Bromophenyl-phenylether	<10.0 ug/L	97.6% / NA	58.1% / 57.7%		0.708%	
4-Chloro-3-methylphenol	<10.0 ug/L	90.1% / NA	54.5% / 55.9%		2.50%	%D1
4-Chlorophenyl-phenylether	<10.0 ug/L	97.5% / NA	53.0% / 52.0%		1.95%	
4-Nitrophenol	<10.0 ug/L	62.7% / NA	43.0% / 38.2%		11.7%	
Acenaphthene	<10.0 ug/L	95.0% / NA	52.8% / 53.2%		0.765%	
Acenaphthylene	<10.0 ug/L	97.5% / NA	52.0% / 55.2%		5.89%	
Anthracene	<10.0 ug/L	100% / NA	68.3% / 64.7%		5.41%	
Benzidine	<10.0 ug/L	57.6% / NA	50.8% / 34.9%		37.0%	D
Benzo (a) anthracene	<10.0 ug/L	101% / NA	82.6% / 71.4%		14.5%	
Benzo[a]pyrene	<10.0 ug/L	92.2% / NA	74.6% / 60.1%		21.6%	
Benzo[b]fluoranthene	<10.0 ug/L	95.6% / NA	76.6% / 62.9%		19.7%	
Benzo[g,h,i]perylene	<10.0 ug/L	91.7% / NA	85.1% / 68.8%		21.2%	
Benzo[k]fluoranthene	<10.0 ug/L	99.4% / NA	76.9% / 60.4%		24.1%	
Bis(2-chloroethoxy)methane	<10.0 ug/L	90.3% / NA	51.4% / 53.6%		4.23%	
Bis(2-chloroethyl)ether	<10.0 ug/L	93.6% / NA	53.6% / 51.6%		3.84%	
Bis(2-chloroisopropyl)ether	<10.0 ug/L	94.3% / NA	53.1% / 51.9%		2.30%	
Bis(2-ethylhexyl)phthalate	<10.0 ug/L	107% / NA	79.9% / 69.1%		14.5%	
Butylbenzylphthalate	<10.0 ug/L	110% / NA	87.6% / 71.0%		20.9%	
Chrysene	<10.0 ug/L	100% / NA	85.3% / 70.3%		19.3%	
Dibenz[a,h]anthracene	<10.0 ug/L	90.8% / NA	75.6% / 59.8%		23.3%	
Diethylphthalate	<10.0 ug/L	96.0% / NA	64.1% / 55.9%		13.5%	
Dimethylphthalate	<10.0 ug/L	99.0% / NA	57.2% / 56.4%		1.40%	
Di-n-butylphthalate	<10.0 ug/L	103% / NA	80.4% / 64.7%		21.6%	
Di-n-octylphthalate	<10.0 ug/L	93.2% / NA	73.4% / 59.6%		20.7%	E21
Fluorene	<10.0 ug/L	91.7% / NA	50.1% / 51.2%		2.19%	
Hexachlorobenzene	<10.0 ug/L	85.0% / NA	60.2% / 59.5%		1.18%	
Hexachlorobutadiene	<10.0 ug/L	73.5% / NA	49.0% / 49.7%		1.33%	
Hexachlorocyclopentadiene	<10.0 ug/L	76.5% / NA	41.0% / 39.5%		3.72%	
Hexachloroethane	<10.0 ug/L	75.6% / NA	47.9% / 48.0%		0.187%	
Indeno[1,2,3-cd]pyrene	<10.0 ug/L	90.7% / NA	76.2% / 62.4%		19.9%	
Isophorone	<10.0 ug/L	84.7% / NA	48.6% / 51.3%		5.49%	
Naphthalene	<10.0 ug/L	83.6% / NA	51.6% / 56.6%		9.16%	

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QUALITY CONTROL RESULTS**Base/Neutral Compounds -- Batch: A512131 (Water)**

Prepared: 09-Dec-15 13:49 By: KR -- Analyzed: 10-Dec-15 16:21 By: KR

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Nitrobenzene	<10.0 ug/L	88.5% / NA	54.6% / 57.7%		5.44%	
N-Nitrosodimethylamine	<10.0 ug/L	62.7% / NA	36.2% / 36.9%		1.98%	
N-Nitroso-di-n-propylamine	<10.0 ug/L	0.250% / NA	52.8% / 51.2%		2.77%	
N-Nitrosodiphenylamine/diphenylamine	<10.0 ug/L	99.0% / NA	66.1% / 61.7%		6.91%	
Pentachlorophenol	<10.0 ug/L	118% / NA	88.3% / 71.2%		19.0%	
Phenanthrene	<10.0 ug/L	97.1% / NA	69.9% / 61.2%		13.3%	
Phenol	<10.0 ug/L	53.7% / NA	29.8% / 31.2%		4.60%	
Pyrene	<10.0 ug/L	99.3% / NA	78.9% / 61.9%		24.1%	
2,4,6-Tribromophenol [surr]	92.5 %	103% / NA	72.7% / 63.5%		NA	
2-Fluorobiphenyl [surr]	83.1 %	88.2% / NA	48.2% / 48.7%		NA	
2-Fluorophenol [surr]	63.8 %	65.6% / NA	34.0% / 35.7%		NA	
Nitrobenzene-d5 [surr]	89.9 %	86.4% / NA	54.9% / 58.5%		NA	
Phenol-d5 [surr]	44.2 %	48.3% / NA	26.6% / 27.9%		NA	
Terphenyl-d14 [surr]	90.9 %	94.3% / NA	76.3% / 65.1%		NA	

Total Metals -- Batch: A512137 (Water)

Prepared: 10-Dec-15 10:00 By: HF -- Analyzed: 11-Dec-15 11:56 By: HF

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Arsenic	<0.0104 mg/L	102% / NA	110% / 113%		2.72%	
Cadmium	<0.000520 mg/L	105% / NA	109% / 112%		2.91%	
Chromium	<0.0104 mg/L	105% / NA	113% / 118%		2.63%	
Copper	<0.00520 mg/L	100% / NA	112% / 120%		3.05%	
Lead	<0.0156 mg/L	104% / NA	106% / 110%		3.19%	
Molybdenum	<0.0312 mg/L	103% / NA	109% / 112%		3.32%	
Nickel	<0.0104 mg/L	105% / NA	110% / 115%		2.88%	
Selenium	<0.0520 mg/L	101% / NA	104% / 108%		3.80%	
Silver	<0.0208 mg/L	97.2% / NA	94.6% / 96.8%		2.26%	
Zinc	<0.00520 mg/L	102% / NA	109% / 112%		2.19%	

Wet Chemistry -- Batch: A512176 (Water)

Prepared: 15-Dec-15 15:13 By: JB -- Analyzed: 16-Dec-15 12:44 By: JB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Oil and Grease	<3.50 mg/L	94.6% / 96.1%	86.2% / NA		1.57%	

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QUALITY CONTROL RESULTS

Pesticides/PCBs -- Batch: A512362 (Water)

Prepared: 14-Dec-15 09:44 By: MB -- Analyzed: 28-Dec-15 16:08 By: mb

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
4,4'-DDD	<0.100 ug/L	125% / NA	119% / 109%		9.04%	E-01
4,4'-DDE	<0.100 ug/L	107% / NA	108% / 97.5%		9.76%	
4,4'-DDT	<0.020 ug/L	105% / NA	98.8% / 88.2%		11.4%	
Aldrin	<0.010 ug/L	66.1% / NA	49.9% / 43.7%		13.3%	
alpha-BHC	<0.050 ug/L	75.7% / NA	60.8% / 52.7%		10.9%	
beta-BHC	<0.050 ug/L	106% / NA	102% / 99.2%		3.09%	
delta-BHC	<0.050 ug/L	90.7% / NA	79.6% / 74.4%		6.69%	
Dieldrin	<0.020 ug/L	76.8% / NA	67.5% / 60.5%		11.0%	D
Endosulfan I	<0.010 ug/L	78.5% / NA	77.0% / 68.3%		11.8%	D, E21
Endosulfan II	<0.020 ug/L	81.2% / NA	79.0% / 69.8%		12.4%	D
Endosulfan sulfate	<0.100 ug/L	90.2% / NA	80.6% / 67.5%		15.5%	E-01
Endrin	<0.020 ug/L	104% / NA	100% / 89.9%		10.7%	D, E-01
Endrin aldehyde	<0.100 ug/L	100% / NA	90.6% / 68.6%		23.6%	E21
gamma-BHC (Lindane)	<0.050 ug/L	73.8% / NA	64.9% / 57.3%		12.5%	
Heptachlor	<0.010 ug/L	65.8% / NA	50.1% / 44.0%		13.1%	
Heptachlor epoxide	<0.010 ug/L	78.4% / NA	73.6% / 64.5%		12.5%	
DCBP [surr]	83.5 %	65.7% / NA	67.4% / 51.9%		NA	
TCMX [surr]	60.0 %	59.4% / NA	46.9% / 37.5%		NA	

QUALIFIER(S)

- *%D1: Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
- *D: RPD Value Does Not Meet Laboratory Acceptance Criteria
- *E-01: Estimated Result; This Analyte Failed "High" in the CCV; If the sample is non-detect for this analyte, the CCV demonstrated the analyte would have been detected were it present.
- *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.
- *E21: Estimated Result; This Analyte failed (low) in the CCV.
- *E3: Estimated Result Due to Incorrect Sample Preservation or Container
- *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



11701 Interstate 30, Bldg. 1, Ste. 115
 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 Wasetwater Sample			1 Day (100%) 2 Day (50%) 3 Day (25%) 5 Day (Routine)		1. Cool, 4 Degrees Centigrade 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2					4. Thiosulfate for Dechlorination 5. Hydrochloric Acid(HCl) 6. Sodium Hydroxide (NaOH), pH > 12																						
Reporting Information Telephone: 870-942-2111 Email: james.house@kohler.com, joe.mcelroy@kohler.com, neal.hollinger@kohler.com			TEST PARAMETERS										Bottle Type Code																						
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							Arkansas Analytical Work Order Number: 1512143																			
Sampler(s) Signature <i>Mike Lane</i>			Sampler(s) Printed <i>Mike Lorenson</i>																																
Field Number	SAMPLE COLLECTION		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 Pesticides/PCBs	PPS Base Neutral/Acids	Oil and Grease											
	12/2/2015 - 12/8/2015	6 AM - 6 AM		X	9	Water	Wastewater Composite										X	X	X	X	X	X													
	12/8/2015	6 AM	X		1	Water	Wastewater Grab																				X								
	12/8/2015	6 AM	X		1	Water	Wastewater Grab - Lab QC Sample																				X								
1. Relinquished by: (Signature) <i>Mike Lane</i>			Date/Time 12/8/2015 8:00 AM		2. Received by: (Signature) <i>Allen Parker</i>			SAMPLE CONDITION UPON RECEIPT IN LAB										REMARKS / SAMPLE COMMENTS																	
3. Relinquished by: (Signature) <i>Allen Parker</i>			Date/Time 1523 12-8-15		4. Received by lab: (Signature) <i>Dammy Riddle</i>			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: 30°C 6. TEMPERATURE GUN ID: HHT#2										Flow - 106,600 pH - 6.76																	
FOR COMPLETION BY LAB ONLY																																			