

# ADEQ

ARKANSAS  
Department of Environmental Quality

October 18, 2018

Kathryn Catlin, Wastewater Manager  
City of Harrison  
P.O. Box 1715  
Harrison, AR 72601

**RE: City of Harrison WWTP Inspections (Boone Co)**  
**AFIN: 05-00054**                      **NPDES Permit No.: AR0034321**

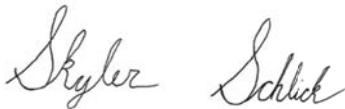
Dear Ms. Catlin.

On September 5, 2018, I performed a Compliance Evaluation Inspection and SSO/Collection System Inspection of the above-referenced facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. Copies of the inspection reports are enclosed for your records.

**Please refer to the “Summary of Findings” section of each of the attached inspection reports and provide a written response for each violation that was noted.** This response should be mailed to the attention of the Water Division Inspection Branch at the address at the bottom of this letter or e-mailed to [Water-Inspection-Report@adeq.state.ar.us](mailto:Water-Inspection-Report@adeq.state.ar.us). This response should contain documentation describing the course of action taken to correct each item noted. This corrective action should be completed as soon as possible, and the written response with all necessary documentation (i.e., photos) is due by **November 1, 2018**.

If I can be of any assistance, please contact me at [schlicks@adeq.state.ar.us](mailto:schlicks@adeq.state.ar.us) or (870) 424-3322 ext. 2.

Sincerely,



Skyler Schlick  
District 2 Field Inspector  
Office of Water Quality



**A R K A N S A S**  
Department of Environmental Quality

## WATER DIVISION INSPECTION REPORT

AFIN: <b>05-00054</b>	PERMIT #: <b>AR0034321</b>	DATE: <b>9/5/2018</b>
COUNTY: <b>05 Boone</b>	PDS #: <b>104964</b>	MEDIA: <b>WN</b>
GPS LAT: <b>36.236990</b> LONG: <b>-93.076433</b> LOCATION: <b>General Area</b>		

FACILITY INFORMATION	INSPECTION INFORMATION	
NAME: <b>City of Harrison WWTP</b> LOCATION: <b>1508 Silver Valley Road</b> CITY: <b>Harrison</b>	FACILITY TYPE: <b>1 - Municipal</b> INSPECTOR ID#: <b>117208 S - State</b> FACILITY EVALUATION RATING: <b>2 - Marginal</b> INSPECTION TYPE: <b>Compliance Evaluation</b> DATE(S): <b>9/5/2018</b> ENTRY TIME: <b>08:45</b> EXIT TIME: <b>12:15</b> PERMIT EFFECTIVE DATE: <b>10/1/2007</b> PERMIT EXPIRATION DATE: <b>9/30/2012</b>	
RESPONSIBLE OFFICIAL		
NAME / TITLE: <b>Kathryn Catlin / Wastewater Manager</b> COMPANY: <b>City of Harrison</b> MAILING ADDRESS: <b>P.O. Box 1715</b> CITY, STATE, ZIP: <b>Harrison AR 72601</b> PHONE & EXT. / FAX: <b>870-741-5527 /</b> EMAIL: <b>kathryn.catlin@cityofharrison.com</b> CONTACTED DURING INSPECTION: <b>No</b>	FAYETTEVILLE SHALE RELATED: <b>N</b> FAYETTEVILLE SHALE VIOLATIONS: <b>N</b> <th style="text-align: center;">INSPECTION PARTICIPANTS</th> NAME/TITLE/PHONE/FAX/EMAIL/ETC.: <b>Michael Crow/ Wastewater Plant Supervisor Lic# 007153 / (870)-741-2528/ michael.crow@cityofharrison.com</b>  <b>Shaun Slankard/ Operator Lic # 009834</b>	INSPECTION PARTICIPANTS

### AREA EVALUATIONS

(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)

<b>S</b>	PERMIT	<b>M</b>	FLOW MEASUREMENT	<b>S</b>	STORMWATER
<b>S</b>	RECORDS/REPORTS	<b>S</b>	LABORATORY	<b>S</b>	FACILITY SITE REVIEW
<b>M</b>	OPERATION & MAINTENANCE	<b>S</b>	EFFLUENT/RECEIVING WATER	<b>S</b>	SELF-MONITORING PROGRAM
<b>S</b>	SAMPLING	<b>S</b>	SLUDGE HANDLING/DISPOSAL	<b>N</b>	PRETREATMENT
<b>**</b>	OTHER:				

### SUMMARY OF FINDINGS

The following violations were noted during the inspection:

- 1.) There were screenings on the ground at headworks. This is a violation of Part II, Condition 6 of the permit. This violation was corrected during the inspection. No further response is requested for this item.
- 2.) There were plants growing in the concrete of the oxidation ditch. This is a violation of Part III, Section B. 1 of the permit.
- 3.) Both of the secondary clarifiers had operational issues including: broken skimmer arm, inner baffle not operating properly to let solids settle, the skimmer arm rubber flap was not contacting the outer baffle, the outer baffle was submerged in some locations, the algae accumulation was excessive, and there were sections of the weirs missing. These are violations of Part III, Section B. 1 of the permit.
- 4.) There were floatables observed going over the weir at both of the secondary clarifiers. This is a violation Part III, Section B. 1 of the permit.

**Additional comments:**

The secondary flow measurement device has not been calibrated in the last year. This should be calibrated every year to ensure the accuracy of the measurements.

**GENERAL COMMENTS**

On September 5, 2018, an inspection was conducted with the above-mentioned inspection participants. The inspection consisted of a records review and a site assessment.



**Records review:**

The records for October and December of 2017 and April and June of 2018 were reviewed. All records were in order and complete. The permittee samples/analyzes flow, CBOD5, TSS, NH3-N, TP, DO, FCB, TRC, and pH. Biomonitoring (i.e., WET testing) is completed by a contract lab.

**Site assessment:**

The treatment process consists of bar screen, grit chamber, primary clarifier, oxidation ditches (two ran in parallel), secondary clarifiers (two ran in parallel), UV disinfection, and discharge to Outfall 001. The trickling filters and chlorination/dechlorination units are no longer in service. The wasted sludge goes to an aerobic digester, sludge thickener, sludge press, and it is then land applied under State No-Discharge permit 5158-WR-1.

The secondary clarifiers were not operating properly. The activated sludge was coming out of the inner baffle close to the surface and was not settling properly (see Photos 8 and 11). There was a large accumulation of floatables adjacent to the outer baffle. Floatables were going over the weir in some locations. The outer baffle was below the wastewater line and allowing floatables to go out the weir. The skimmer arm was broken on one of the secondary clarifiers and skimmings were not being collected properly. The rubber flap on the end of the skimmer arm was not touching the outer baffle in several locations. There was algae accumulation in some areas. The algae should be cleaned regularly to prevent significant build up.

INSPECTOR'S SIGNATURE:  Skyler Schlick	DATE: 10/3/2018
SUPERVISOR'S SIGNATURE:  Kerri McCabe	DATE: 10/17/2018

<b>SECTION A: PERMIT VERIFICATION</b>	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS: <b><u>Permit is expired; permittee is in the renewal process.</u></b>	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. ALL DISCHARGES ARE PERMITTED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION B: RECORDKEEPING AND REPORTING EVALUATION</b>	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS: <b><u>Permittee samples/analyzes flow, CBOD5, TSS, NH3-N, TP, DO, FCB, TRC, and pH; contract lab completes WET testing.</u></b>	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
a. DATES AND TIME(S) OF SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. EXACT LOCATION(S) OF SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. NAME OF INDIVIDUAL PERFORMING SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
d. ANALYTICAL METHODS AND TECHNIQUES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
e. RESULTS OF CALIBRATIONS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
f. RESULTS OF ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
g. DATES AND TIMES OF ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
h. NAME OF PERSON(S) PERFORMING ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION C: OPERATIONS AND MAINTENANCE</b>	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS: <b><u>Secondary clarifiers had multiple issues.</u></b>	
1. TREATMENT UNITS PROPERLY OPERATED: <u>Secondary clarifiers have several issues.</u>	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
2. TREATMENT UNITS PROPERLY MAINTAINED: <u>Secondary clarifiers have several issues.</u>	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED: <u>Generator onsite.</u>	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED: <u>One Class IV operator and multiple operators with Class III or below.</u>	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR: <u>Within collection system</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE

<b>SECTION D: SAMPLING</b>	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS: <b>Permittee samples/analyzes flow, CBOD5, TSS, NH3-N, TP, DO, FCB, TRC, and pH; contract lab completes WET testing.</b>	
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. SAMPLES REFRIGERATED DURING COMPOSITING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER PRESERVATION TECHNIQUES USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION E: FLOW MEASUREMENT</b>	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS: <b>Secondary flow measurement device should be calibrated.</b>	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: <u>Yes</u> TYPE OF DEVICE: <u>18" Parshall flume</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: <u>Totalizer</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. CALIBRATION FREQUENCY ADEQUATE: <u>Calibrated May 10, 2017.</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
9. HEAD MEASURED AT PROPER LOCATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
<b>SECTION F: LABORATORY</b>	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. QUALITY CONTROL PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. DUPLICATE SAMPLES ARE ANALYZED $\geq$ 10% OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SPIKED SAMPLES ARE ANALYZED $\geq$ 10% OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. COMMERCIAL LABORATORY USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. LAB NAME: <u>Waypoint Analytical</u>	
b. LAB ADDRESS: <u>2790 Whitten Rd, Memphis, TN 38133</u>	
c. PARAMETERS PERFORMED: <u>Biomonitoring, sludge analyses, soil analyses</u>	
8. BIOMONITORING PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. PROPER ORGANISMS USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER DILUTION SERIES FOLLOWED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. PROPER TEST METHODS AND DURATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE

<b>SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS</b>							
BASED ON VISUAL OBSERVATIONS ONLY						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS: <b>Observed at Parshall flume and Outfall 001. There were no significant floatables observed; but at the secondary clarifier, floatables were observed going over the weir.</b>							
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
001	NO	NO	NO	NO	NO	Clear	--
<b>SECTION H: SLUDGE DISPOSAL</b>							
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS: <b>Class B biosolids are generated at the plant. Dewatered biosolids are land applied under permit 5158-WR-1.</b>							
1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY:						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503:						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: (E.G., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE): <u>Agricultural: pasture</u>							
<b>SECTION I: SAMPLING INSPECTION PROCEDURES</b>							
SAMPLE RESULTS WITHIN PERMIT REQUIREMENTS						<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
1. SAMPLES OBTAINED THIS INSPECTION:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
2. TYPE OF SAMPLE: <input type="checkbox"/> GRAB:___ <input type="checkbox"/> COMPOSITE:___ METHOD:___ FREQUENCY:___							
3. SAMPLES PRESERVED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
4. FLOW PROPORTIONED SAMPLES OBTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
7. SAMPLE SPLIT WITH PERMITTEE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
<b>SECTION J: STORM WATER POLLUTION PREVENTION PLAN</b>							
STORM WATER MANAGEMENT MEETS PERMIT REQUIREMENTS						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS: <b>Permitted under No-Exposure certification IGP ARR00C373.</b>							
1. SWPPP UPDATED AS NEEDED:___ DATE OF LAST UPDATE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
2. SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
3. POLLUTION PREVENTION TEAM IDENTIFIED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
4. POLLUTION PREVENTION TEAM PROPERLY TRAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
5. LIST OF POTENTIAL POLLUTANT SOURCES:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
6. LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
7. ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
8. LIST OF STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
9. LIST OF NON-STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
10. BMPS PROPERLY OPERATED AND MAINTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
11. INSPECTIONS CONDUCTED AS REQUIRED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	

**FLOW CALCULATION SHEET**

Date:	<b>September 5, 2018</b>	Time:	<b>10:50</b>
-------	--------------------------	-------	--------------

Head in Inches:		Feet:	
-----------------	--	-------	--

Type & Size of Primary Flow Measurement Device: **18" Parshall Flume**

Name & Model of Secondary Flow Measurement Device: **Honeywell DR4300**

Date of last Calibration of Secondary Flow Device: **May 10, 2017**

Recorded Flow at Date & Time Listed Above: **3.1** (Facility Flow Meter)

Calculated Flow at Date & Time Listed Above: **3.0**

(Flow is calculated using flow charts in: ISCO Open Channel Flow Measurement Handbook-5<sup>th</sup> Edition)

% Error =	Recorded Value	-	Calculated Value	X 100
	Calculated Value			

% Error =	3.1	-	3.0	X 100
	3.0			

% Error =	0.1	X 100
	3.0	

% Error =	0.033	X 100
-----------	-------	-------

% Error =	<b>3.3</b>	%
-----------	------------	---

Comments: **Value within plus or minus 10%.**

**DMR Calculation Check**

Reporting Period: From 2017 12 01 To 2017 12 31  
 Year Month Day Year Month Day

Parameter Checked: CBOD5

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	7-day Avg. - mg/l
Reported Value:	<u>27.5</u>	<u>2.3</u>	<u>4.6</u>
Calculated Value:	<u>27.47</u>	<u>2.32</u>	<u>4.635</u>
Permit Value:	<u>217</u>	<u>10</u>	<u>15</u>

If calculated value does not equal reported value, explain:

The values are the same with slight rounding differences (see Table 1 for calculations).



**DMR Calculation Check**

Reporting Period: From 2018 6 01 To 2018 6 30  
 Year Month Day Year Month Day

Parameter Checked: NH3-N

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	7-day Avg. - mg/l
Reported Value:	<u>5.9</u>	<u>0.4</u>	<u>0.7</u>
Calculated Value:	<u>5.54</u>	<u>0.04025</u>	<u>0.675</u>
Permit Value:	<u>39</u>	<u>1.8</u>	<u>4.6</u>

If calculated value does not equal reported value, explain:

The values are the same with slight rounding differences (see Table 2 for calculations).

**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0900</b>
Description:	<b>Bar Screen</b>	Photo #:	<b>1</b>



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0900</b>
Description:	<b>Grit removal</b>	Photo #:	<b>2</b>



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0901</b>
		Photo #:	<b>3</b>
Description:	<b>Solids on the ground.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0904</b>
		Photo #:	<b>4</b>
Description:	<b>Primary clarifier</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0908</b>
		Photo #:	<b>5</b>
Description:	<b>Oxidation ditches</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0908</b>
		Photo #:	<b>6</b>
Description:	<b>Vegetation growing in oxidation ditch.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0911</b>
		Photo #:	<b>7</b>
Description:	<b>Secondary clarifier</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0917</b>
		Photo #:	<b>8</b>
Description:	<b>Inner baffle of clarifier.</b>		



Water Division Photographic Evidence Sheet

Location:	City of Harrison WWTP		
Photographer:	Skyler Schlick	Date:	9/5/2018
Witness:	N/A	Time:	0919
		Photo #:	9
Description:	Secondary clarifier weir with a section missing.		



Photographer:	Skyler Schlick	Date:	9/5/2018
Witness:	N/A	Time:	0922
		Photo #:	10
Description:	Skimmer arm with large amount of floatables.		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0926</b>
		Photo #:	<b>11</b>
Description:	<b>Clarifier is leaking.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0925</b>
		Photo #:	<b>12</b>
Description:	<b>Clarifier skimmer arm broken.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0927</b>
		Photo #:	<b>13</b>
Description:	<b>Solids going over the clarifier baffle and weir.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0931</b>
		Photo #:	<b>14</b>
Description:	<b>Large accumulation of floatable solids and missing weir section.</b>		





**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0933</b>
		Photo #:	<b>15</b>
Description:	<b>Floatables going over the weir.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0932</b>
		Photo #:	<b>16</b>
Description:	<b>Secondary clarifier with large amount of floatables.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0937</b>
		Photo #:	<b>17</b>
Description:	<b>Floatables on the outside of the baffle.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0947</b>
		Photo #:	<b>18</b>
Description:	<b>Parshall flume.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0948</b>
		Photo #:	<b>19</b>
Description:	<b>Area after parshall flume.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0948</b>
		Photo #:	<b>20</b>
Description:	<b>UV disinfection</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0950</b>
		Photo #:	<b>21</b>
Description:	<b>Composite sampler.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0951</b>
		Photo #:	<b>22</b>
Description:	<b>Flow path to the outfall.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0954</b>
		Photo #:	<b>23</b>
Description:	<b>Aerobic digester.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>1004</b>
		Photo #:	<b>24</b>
Description:	<b>Sludge press.</b>		



**Water Division Photographic Evidence Sheet**

Location:	<b>City of Harrison WWTP</b>		
Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0958</b>
		Photo #:	<b>26</b>
Description:	<b>Dried sludge.</b>		



Photographer:	<b>Skyler Schlick</b>	Date:	<b>9/5/2018</b>
Witness:	<b>N/A</b>	Time:	<b>0945</b>
		Photo #:	<b>27</b>
Description:	<b>Old trickling filter</b>		



Figure 1. General overview of the WWTP with major components labeled (Google Earth: imagery date April 24, 2014).



**Table 1. CBOD5 calculations for December 2017 at Outfall 001.**

Date	Concentration (mg/L)	7-day Average (mg/L)	Daily Flow (MGD)	Mass (lbs/day)
6	1.6	1.6	1.483	19.8
13	1.68	1.68	1.41	19.8
20	1.35	1.35	1.343	15.1
27	4.635	4.635	1.428	55.2
Max	4.635	-	-	55.2
Min	1.35	-	-	15.1
Average	2.32	-	-	27.47

**Table 2. NH3-N calculations for June 2018 at Outfall 001.**

Date	Concentration (mg/L)	7-day Average (mg/L)	Daily Flow (MGD)	Mass (lbs/day)
5	0.335	0.335	1.646	4.6
12	0.535	0.535	1.49	6.6
19	0.065	0.065	1.563	0.8
26	0.675	0.675	1.786	10.1
Max	0.675	-	-	10.1
Min	0.065	-	-	0.8
Average	0.4025	-	-	5.54



**From:** [Schlick, Skyler](#)  
**To:** [McConnell, Melissa](#)  
**Subject:** FW: City of Harrison AR0034321  
**Date:** Thursday, November 08, 2018 11:25:55 AM  
**Attachments:** [ADEQ Inspection Response.pdf](#)  
[Attachment A.pdf](#)  
[Attachments B & C.pdf](#)  
[image001.png](#)

---

WID 24952 AR0034321

## Skyler Schlick

Inspector-Water Division District 2  
Arkansas Department of Environmental Quality  
Office- (870) 424-3322 ext. 2  
Cell – (501) 514-2126

---

**From:** McCabe, Kerri  
**Sent:** Monday, October 22, 2018 3:15 PM  
**To:** Schlick, Skyler  
**Subject:** FW: City of Harrison AR0034321

FYI

## Kerri McCabe

Inspector Supervisor  
ADEQ – Water Division  
Field Services – Inspection Branch

Office – (501) 682-0642  
Work Cell – (501) 352-5641  
Fax – (501) 682-0880  
5301 Northshore Drive  
North Little Rock, AR 72118-5317



---

**From:** Kathryn Catlin [mailto:kathryn.catlin@cityofharrison.com]  
**Sent:** Monday, October 22, 2018 2:49 PM  
**To:** Water-Inspection-Report  
**Subject:** City of Harrison AR0034321

Attached find the City of Harrison's response to the September 5, 2018 Compliance Evaluation Inspection and SSO/Collection System Inspection conducted by Skyler Schlick. If you have any questions or require any additional information, please feel free to contact me. My contact

information is provided below. Thank you.



**Kathryn Catlin, MBA**

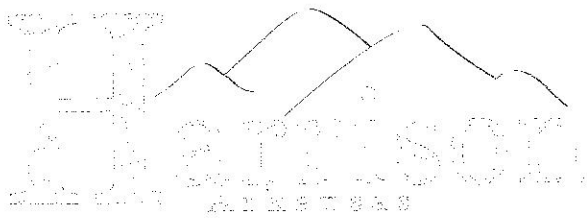
Wastewater Systems Manager

PO Box 1715

Harrison, AR 72602

870-741-5527

[Kathryn.catlin@cityofharrison.com](mailto:Kathryn.catlin@cityofharrison.com)



# Department of Public Works

10/22/2018

Skyler Schlick  
Atten: Water Division Inspection Branch  
ADEQ – Water Division  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

Wastewater Department  
Kathryn Catlin  
Wastewater Systems Manager  
1508 Silver Valley Road  
Harrison, Arkansas 72601  
Office: 870.741.3527  
Fax: 870.741.0318  
www.cityofharrison.com  
kathryn.catlin@cityofharrison.com

**RE: City of Harrison WWTP Inspections (Boone Co)**  
**AFIN: 05-00054 Permit No.: AR0034321**

Dear M. Schlick:

The following is in response to your reports on the Compliance Evaluation Inspection and Collections System Inspection, conducted on September 5, 2018:

**Item 1** – As noted, the solids on the ground were picked up during the inspection. Wednesday, the day of the inspection, is the normal solid waste collection day and the container normally collecting grit screenings (Photo 1 in Attachment A) had been replaced by the temporary collection drum shown in the inspection Photo #2. Considering the distance from the grit discharge pipe and looking at Photo #3, the solids on the ground appear to be trash, rather than grit screenings.

**Item 2** – The vegetation growing in a seam in the middle of the aeration basin was removed during the inspection (Photo 2 in Attachment A). The plant had no impact on the proper operation of the aeration basin; therefore, the vegetation would seem to be a housekeeping issue rather than a violation of the facility's permit requirements.

**Item 3** –

- A. The missing sections of the secondary clarifier weir (Inspection Photo #9, 10, & 14) have been replaced (Photo 3, 4, & 5 in Attachment A).
- B. Inspection Photo #11 labeled "clarifier is leaking" shows floating flock moving from the center ring into the clarifier. According to information provided by the manufacturer, Dorr-Oliver, the center ring of the clarifier is designed with several slots in the top of the ring (Photo 6 in Attachment).
- C. Inspection Photo #12- Clarifier skimmer arm broken. A temporary support was installed to level the skimmer arm (Photo 7 in Attachment A). The City has requested and received pricing and made a budget request to rebuild the existing drive units, center columns, rake arms, squeegees, feedwells, and skimming mechanisms (Attachment B) on both of the final clarifiers in 2019.
- D. The section of the outer baffle that was submerged has been raised. The skimmer arm rubber flap that was not contacting the outer baffle has been replaced with one that contacts to the outer baffle (Photo 8 Attachment A).

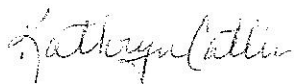
- E. Algae accumulation – the unusually weather this fall has caused an excessive algae growth on the troughs in the clarifiers. As part of normal operations, operators clean the clarifiers three times weekly: Monday, Wednesday, and Friday. Due to the Monday holiday, the clarifiers had not been cleaned on the Monday prior to the inspection. Photos 3 – 5 and 7 & 8 show the algae accumulation during the normal cleaning schedule. The facility's clarifier cleaning procedures have been revised to include Tuesdays when necessary on weeks with a Monday holiday.
- F. A catch screen was manufactured and installed at the final clarifier discharges to ensure that solids larger than pin flock are not discharged from the clarifiers (Photo 9 in Attachment A).

**Item 4** – Floatable solids (Inspection Photos # 10, 13, 14, 15, 16, & 17). During changing weather (warm days and cool nights) the treatment facility will occasionally have floatable solids as shown in the photos from the die off of bacteria. Operational adjustments are made to correct the problem. As can be seen in photos 3 – 5 & 7 - 9 in Attachment A, within a few days of the inspection the floatable solids issue had been greatly reduced.

**Additional comments** – The secondary flow measurement device was calibrated on September 12, 2018 (Attachment C).

Concerning the Collections System Inspection Report, no issues were found; therefore, no response is required. If you have any questions or require any additional information, please feel free to contact me at 870-741-5527 or [Kathryn.catlin@cityofharrison.com](mailto:Kathryn.catlin@cityofharrison.com).

Sincerely,



Kathryn Catlin  
Wastewater Systems Manager

ATTACHMENT A



Photo 1 – Grit screening collection container



Photo 2 – Aeration basin



**Photo 3** – Weir repair



**Photo 4** – Baffle repair



**Photo 5** – Weir and baffle repair



Slots in center ring per manufacturer design

**Photo 6** – Dorr-Oliver (manufacturer) provided photo of center ring.



**Photo 7** – Temporary repair of skimmer arm on south final clarifier



**Photo 8** – Skimmer arm with rubber flap connection to edge of outer baffle.

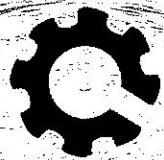


**Photo 9** – Catch screen at final clarifier discharge.

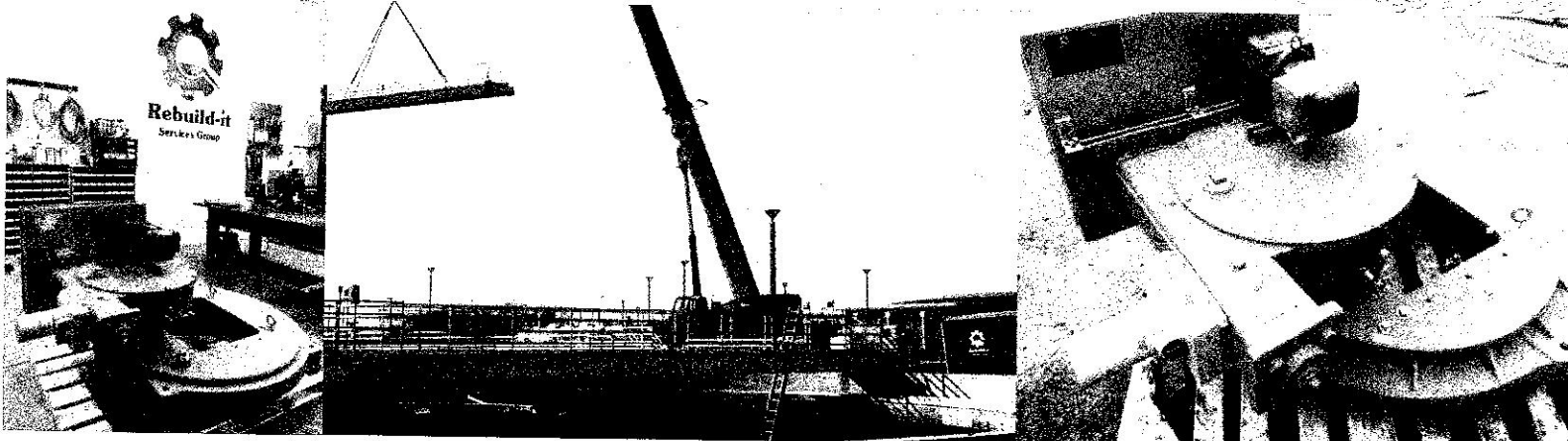


**ATTACHMENT B**

**Rebuild-it Services Group**  
6810 South 300 West, Suite 8  
Midvale, UT 84047



**Services Group**

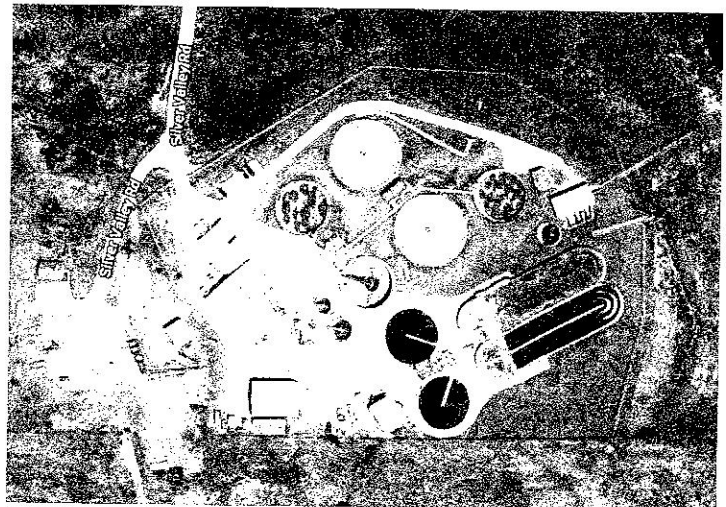


**PROPOSAL DATE:** September 25, 2018

**PROPOSAL NUMBER:** Q121928

**PREPARED FOR:**

Harrison, AR WWTP  
1508 Silver Valley Road  
Harrison, AR 72601  
870-741-6382  
Attention: Michael Crow  
E-Mail:



**SCOPE OF WORK:**

Replace underwater steel and drive for  
A 70' dia. Dorr-Oliver Clarifier.

**PREPARED BY:**

Rebuild-it Services Group, LLC.  
6810 South 300 West, Suite 8  
Midvale, Utah 84047  
Terry A. Reyburn  
Main: (888) 709-5676  
Direct: (385) 235-6924  
Mobile: (801) 828-5369  
E-Mail:  
Website:



**Rebuild-it Services Group is the only FLS  
authorized distributor for EIMCO and  
Dorr-Oliver Parts and services in the  
municipal marketplace.**

**P R O P O S A L**



Services Group

## Proposal No. Q121928

### **PROJECT SUMMARY:**

Rebuild-it Services Group, LLC. (RSG) is pleased to offer the following proposal to provide replacement underwater steel and the drive unit for an existing 70' dia. Dorr-Oliver drive unit. Serial No. 80065-1. We will also include our professional turn-key labor services.

### **SCOPE OF WORK:**

#### **Dorr-Oliver 70' dia. Clarifier S/N 80065-1.**

To include the following:

- Refurbished 48S1 Dorr-Oliver drive unit, rated for 110,000 ft. lbs. we will match the existing RPM's and HP on the current drive unit. Drop in replacement drive unit.
  - New motor drive package includes gearmotor, sprockets, chain and stainless-steel guard.
  - New Drive control or torque indication device.
- Center column, mild steel
- Cage 2'-10" sq.
- Rake arms with blades and 304SS squeegees with 304SS fasteners
- Feedwell, stl with feedwell supports
- Skimming mechanism, upgrade to new style skimming system by EIMCO-RSG.
- Freight to job site
- 2-year warranty
- Engineering time
- Premium coating system (see details below)
- O&M Manual.

#### **SURFACE PREPARATION AND PAINT:**

Drive unit: Surface preparation of SSPC-SP6 following by two (2) coats of Tnemec 161 to a 4-6 mils DFT with a final coat of a UV protected industrial grade polyurethane coating to a 6 mils minimum DFT. Color: Pencil Gray.

Submerged and Non-submerged steel: Surface preparation of SSPC-SP10 followed by Two (2) coats of Tnemec N69 hi-build epoxy to 4-6 mils DFT.

#### **EXCLUDED ITEMS FROM SCOPE OF SUPPLY:**

- Weirs, baffles, bridge with platform and scum box to be reused.
- Finishing painting
- Electrical controls, mounting plates, brackets, conduit, wiring, mounting channels, light posts, photocells, etc.
- Concrete work

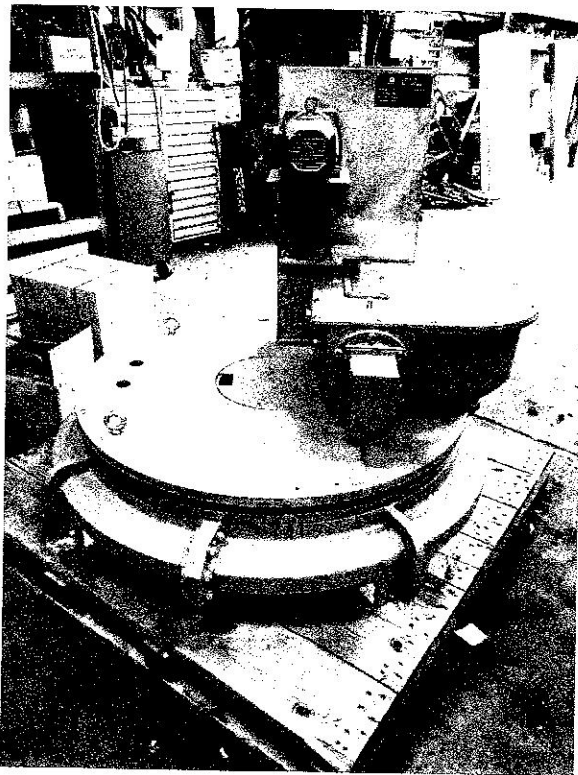
P R O P O S A L



Services Group

## Proposal No. Q121928

- Lubricating oils / greases
- Bi-metallic protection for aluminum handrail, floor plating.
- Access stairways, walkways, gratings, handrailing, etc. outside the tank.
- Scum spray systems, or other water piping.
- Control panels except as specifically noted.
- Parts not mentioned above



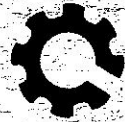
Rebuilt 48S1 Dorr-Oliver drive.  
Rebuilt by Rebuild-it.

### LABOR SERVICES:

The scope of work for this project is as follows;

- Site mobilization and travel time to the job site.
- Removal of mechanism
- Re-Installation of center column, cage, rakes and feedwell.
- Install bridge and rebuilt drive unit.
- Install new skimming system, reusing the scum box, adjust accordingly.
- Crane, mats, rigging equipment as needed.
- Clarifier tracking including rake and drive leveling.
- Touch up paint only

P R O P O S A L



Services Group

## Proposal No. Q121928

- Provide Assistance during start-up & testing
- Provide all required confined space entry equipment, hoisting & rigging
- A foreman/safety QC manager will be on site throughout the project.
- Work to be performed in one (1) mobilization.
- Demobilization of personnel and equipment.
- Field service check out and start-up services.

This proposal excludes the following items;

- Electrical disconnect and reconnect
- Permits, fees, and/or stamped engineering documents
- Provision of Full-Time Safety & QA/QC manager. A foreman will be onsite throughout duration of construction activities and provide field coordination.
- Overtime premiums or weekend work
- Temp facilities including porta-johns, hand wash, temp power, water, and disposal bins to be provided by others.
- Installation of electrical and/or instrumentation to be by others.
- Concrete demolition and/or repair.
- Covered tank or dome; removal of dome or access panels by others.
- Grouting of the tank or concrete work.
- Assumes reasonable access to basins.
- No coating on site- touch up paint only
- Prevailing wage
- Hazardous material abatement, handling and/or disposal.
- Any work not specifically included.
- Draining and cleaning of the tank
- Disposing of old debris/parts.
- Lubrication for drive unit.

### **PRICING:**

Pricing to rebuild one clarifier with our turn-key labor services as described above.....\$146,916.00

Note: pricing has been discounted to take the old drive unit and put towards a core charge to reduce the amount of the project. RSG will handle all freight expenses.

### **SCHEDULE:**

Delivery of drive unit and steel components: 7-9 weeks.

Labor installation work: 3-4 days

Check out services: 1 day

# P R O P O S A L

**Proposal No. Q121928**



**Services Group**

**Please be sure to reference this quotation number and date on your purchase order.  
Remit order to:**

Rebuild-it Services Group, LLC.  
P.O. Box 9178  
Midvale, Utah 84047  
Attention: Candace King, [cking@rebuild-it.com](mailto:cking@rebuild-it.com)

**P R O P O S A L**

## Proposal No. Q121928



Services Group

### PRICING AND PAYMENT TERMS:

We appreciate the opportunity to offer our parts & services. Upon receipt of an order, we assure you of our continued interest and service. RSG will provide the best service possible to ensure we exceed your expectations.

This proposal, including all terms and conditions contained herein, shall become part of any resulting contract or purchase order. Changes to any terms and conditions, including but not limited to submittal and shipment days, payment terms, and escalation clause shall be negotiated at order placement, otherwise the proposal terms and conditions contained herein shall apply.

**Terms:** If not outline otherwise in the proposal, terms for the parts and/or equipment are 100% due after shipment or service is completed. Net 30 days from shipment or after service is completed. The prices are good for **60** days.

**Sales Tax:** No sales taxes, use taxes, or duties have been included in our pricing. Unless you live in Utah, we are not registered to collect sales tax in your state. If you are not tax exempt, please remit taxes directly to the governing authorities.

**Freight:** Prices quoted are F.O.B. shipping point with freight prepaid and added to a readily accessible location nearest to jobsite, unless otherwise indicated. All claims for damage or loss in shipment shall be initiated by purchaser.

**Shipment:** Shipping times noted within this proposal are estimated and will be finalized once an order has been received and accepted.

**Field Service:** Prices do not include field service unless noted in the rebuild scope of work description. Additional field service is available at \$900.00 per day plus expenses.

**OEM Parts:** If applicable RSG will quote OEM factory parts furnished by FLSmidth USA, Inc. FLSmidth owns EIMCO® and Dorr-Oliver™ registered trademarks. FLSmidth is the sole owner of EIMCO® and Dorr-Oliver® registered trademarks and brand names.



**EIMCO & Dorr-Oliver:** RSG is the only authorized distributor for EIMCO and Dorr-Oliver parts and services for FLSmidth in the municipal market. No other company is authorized to use the EIMCO or Dorr-Oliver name or trademark unless approved by FLSmidth or Rebuild-it Services Group.

# P R O P O S A L

## Proposal No. Q121928



Services Group

### **WARRANTY & TERMS AND CONDITIONS:**

Parts and/or Equipment manufactured or rebuilt and sold by Rebuild-it Services Group, once paid for in full, is backed by the following warranty:

For the benefit of the original user, RSG warrants all new parts and equipment sold or rebuilt RSG, LLC. to be free from defects in material and workmanship, and will replace or repair, F.O.B. its factories or other location designated by it, any part or parts returned to it which RSG's examination shall show to have failed under normal use and service by the original user within two (2) years following initial start-up, or two (2) years and six (6) months from shipment to the purchaser, whichever occurs first.

Such repair or replacement shall be free of charge for all items except for those items such as resin, filter media and the like that are consumable and normally replaced during maintenance, with respect to which, repair or replacement shall be subject to a pro-rata charge based upon RSG's estimate of the percentage of normal service life realized from the part. RSG's obligation under this warranty is conditioned upon its receiving prompt notice of claimed defects, which shall in no event be later than thirty (30) days following expiration of the warranty period, and is limited to repair or replacement as aforesaid.

**This warranty is expressly made by RSG and accepted by purchaser in lieu of all other warranties, including warranties of merchantability and fitness for particular purpose, whether written, oral, express, implied, or statutory. RSG shall not be liable for normal wear and tear, corrosion, or any contingent, incidental, or consequential damage or expense due to partial or complete inoperability of its equipment for any reason whatsoever.**

This warranty shall not apply to equipment or parts thereof which have been altered or repaired outside of a RSG factory, or damaged by improper installation, application, or maintenance, or subjected to misuse, abuse, neglect, accident, or incomplete adherence to all manufacturer's requirements, including, but not limited to, Operations & Maintenance Manual guidelines & procedures.

This warranty applies only to equipment made or sold by Rebuild-it Services Group, LLC (RSG).

RSG makes no warranty with respect to parts, accessories, or components purchased by the customer from others. The warranties which apply to such items are those offered by their respective manufacturers.

### **CONFIDENTIALITY:**

***All the information in this quotation is confidential and has been prepared for your use solely in considering services described. Transmission of all or any parts of this information to others or use by you for other purposes is unauthorized without our written consent.***

P R O P O S A L

# Proposal No. Q121928



Services Group

## TERMS AND CONDITIONS:

Terms and Conditions appearing in any order based on this proposal which are inconsistent herewith shall not be binding on Rebuild-it Services Group (RSG). The sale and purchase of equipment described herein shall be governed exclusively by the foregoing proposal and the following provisions:

RSG is furnishing its standard equipment as outlined in the proposal and as will be covered by final approved drawings if applicable. The equipment will, however, meet the general intention of the mechanical specifications of these documents.

This proposal includes only the equipment specified herein and does not include erection, installation, accessories, nor associated materials such as controls, piping, etc., unless specifically listed.

All selling prices quoted are subject to change without notice after 30 days from the date of this proposal unless specified otherwise. Unless otherwise stated, all prices are F.O.B. RSG or its supplier's shipping points. All claims for damage, delay or shortage arising from such equipment shall be made by Purchaser directly against the carrier. When shipments are quoted F.O.B. job site or other designation, Purchaser shall inspect the equipment shipped, notifying RSG of any damage or shortage within forty-eight hours of receipt, and failure to so notify RSG shall constitute acceptance by Purchaser, relieving RSG of any liability for shipping damages or shortages.

All invoices are net 30 days. Delinquencies are subject to a 1.5 percent service charge per month or the maximum permitted by law, whichever is less on all past due accounts. Pro rata payments are due as shipments are made. If shipments are delayed by the Purchaser, invoices shall be sent on the date when RSG is prepared to make shipment and payment shall become due under standard invoicing terms. If the work to be performed hereunder is delayed by the Purchaser, payments shall be based on the purchase price and percentage of completion. Products held for the Purchaser shall be at the risk and expense of the Purchaser. Unless specifically stated otherwise, prices quoted are for equipment only. These terms are independent of and not contingent upon the time and manner in which the Purchaser receives payment from the owner.

Prices quoted for equipment do not include installation supervision, unless otherwise noted. RSG recommends and will, upon request, make available, RSG's then current rate, an experienced installation supervisor to act as the Purchaser's employe and agent to supervise installation of the equipment. Purchaser shall at its sole expense furnish all necessary labor equipment, and materials needed for installation.

Responsibility for proper operation of equipment, if not installed by RSG or installed in accordance with RSG or original manufacture instructions, and inspected and accepted in writing by RSG or manufacture representing RSG.

RSG will supply the safety devices described in this proposal or shown in RSG's or manufacture represented drawings furnished as part of this order but excepting these, RSG shall not be required to supply or install any safety devices whether required by law or otherwise. The Purchaser hereby agrees to indemnify and hold harmless RSG from any claims or losses arising due to alleged or actual insufficiency or inadequacy of the safety devices offered or supplied hereunder, whether specified by RSG or Purchaser, and from any damage resulting from the use of the equipment supplied hereunder.

Products will be deemed accepted without any claim by Purchaser unless written notice of non-acceptance is received by RSG within 30 days of delivery if shipped F.O.B. point of shipment, or 48 hours of delivery if shipped F.O.B. point of destination. Such written notice shall not be considered received by RSG unless it is accompanied by all freight bills for said shipment, with Purchaser's notations as to damages, shortages and conditions of equipment, containers, and seals. Non-accepted products are subject to the return policy stated below.

Any federal, state, or local sales, use or other taxes applicable to this transaction, unless specifically included in the price, shall be for Purchaser's account.

From date of shipment until the invoice is paid in full, Purchaser agrees to provide and maintain at its expense, but for RSG benefit, adequate insurance including, but not limited to, builders risk insurance on the equipment against any loss of any nature whatsoever.

Any shipment of delivery dates recited represent RSG's best estimate but no liability, direct or indirect, is assumed by RSG for failure to ship or deliver on such dates.

RSG shall have the right to make partial shipments; and invoices covering the same shall be due and payable by Purchaser in accordance with the payment terms thereof. If Purchaser defaults in any payment when due hereunder, RSG may, without incurring any liability therefore to Purchaser or Purchaser's customers, declare all payments immediately due and payable with maximum legal interest thereon from due date of said payment, and at its option, stop all further work and shipments until all past due payments have been made, and/or require that any further deliveries be paid for prior to shipment.

# P R O P O S A L



# Proposal No. Q121928



Services Group

If Purchaser requests postponements of shipments, the purchase price shall be due and payable upon notice from RSG that the equipment is ready for shipment; and thereafter any storage or other charge RSG incurs on account of the equipment shall be for the Purchaser's account.

If delivery is specified at a point other than RSG or its supplier's shipping points, and delivery is postponed or prevented by strike, accident, embargo, or other cause beyond RSG reasonable control and occurring at a location other than RSG or its supplier's shipping points, RSG assumes no liability in delivery delay. If Purchaser refuses such delivery, RSG may store the equipment at Purchaser's expense. For all purposes of this agreement such tender of delivery or storage shall constitute delivery.

If furnished, shop primer paint is intended to serve only as minimal protective finish. RSG will not be responsible for the condition of primed or finish painted surfaces after equipment leaves its shops. Purchasers are invited to inspect paint in shops for proper preparation and application prior to shipment. RSG assumes no responsibility for field surface preparation or touch-up of shipping damage to paint. Painting of fasteners and other touch-up to painted surfaces will be by Purchaser's painting contractor after mechanism installation.

No products may be returned to RSG without RSG's prior written permission. Said permission may be withheld by RSG at its sole discretion.

RSG will not approve or accept back charges for labor, materials, or other costs incurred by Purchaser or others in modification, adjustment, service, or repair of RSG furnished materials unless such back charge has been authorized in advance in writing by a RSG employee and a purchase order, or work requisition signed by RSG.

Purchaser agrees to indemnify RSG from all costs incurred, including but not limited to court costs and reasonable attorney fees, from enforcing any provisions of this contract, including but not limited to breach of contract or costs incurred in collecting monies owed on this contract.

This proposal expresses the entire agreement between the parties hereto superseding any prior understandings, and is not subject to modification except by a writing signed by an authorized officer of each party.

Extended storage instructions will be part of information provided to shipment. If equipment installation and start-up is delayed more than 30 days, the provisions of the storage instructions must be followed to keep WARRANTY in force.

Professional liability insurance, including but not limited to, errors and omissions insurance, is not included. In any event, liability for errors and omissions shall be limited to the lesser of 25,000USD or the value of the particular piece of equipment (not the value of the entire order) supplied by RSG against which a claim is sought.

Any controversy or claim arising out of or relating to the performance of any contract resulting from this proposal or contract issued, or the breach thereof, shall be settled by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrator(s) may be entered to any court having jurisdiction.

### ACCEPTED BY PURCHASER

Customer Name: \_\_\_\_\_ Customer Address: \_\_\_\_\_

\_\_\_\_\_ Contact Name: \_\_\_\_\_

Contact Phone: \_\_\_\_\_ Contact Email: \_\_\_\_\_

Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

## ATTACHMENT C

OIC Inc.

## Calibration Report

JOB: Harrison, Ar.

Page: 1 of 1

Location: WWTP

Date: 09/12/2018

Effluent Flow - Milltronics Hydromanager  
18" Parshall flume - 8 MGD @ 19.22"

Input head	Calculated MGD	Actual MGD	Accuracy %
0	0	0	
3	.46	.465	+1.09
6	1.34	1.359	+1.42
9.0	2.49	2.50	+0.40

Influent Flow - Milltronics Hydromanager  
18" Parshall flume - 8 MGD @ 19.22"

Input head	Calculated MGD	Actual MGD	Accuracy %
0	0	0	
3	.46	.48	+4.35
6	1.34	1.36	+1.49
9.0	2.49	2.51	+0.80

Effluent / Influent Chart - DR4300 SN 0194153072800001  
Pen 1 Red - 0-8 MGD Effluent 4-20 mA

Input mA	Calculated MGD	Actual MGD	Accuracy %
4	0	0	
8	2.0	2.0	
12	4.0	4.0	
16	6.0	6.0	

Effluent / Influent Chart - DR4300 SN 0194153072800001  
Pen 2 Purple - 0-8 MGD Influent 4-20 mA

Input mA	Calculated MGD	Actual MGD	Accuracy %
4	0	0	
8	2.0	2.0	
12	4.0	4.0	
16	6.0	6.0	

# ADEQ

ARKANSAS  
Department of Environmental Quality

December 7, 2018

Kathryn Catlin  
City of Harrison  
P.O. Box 1715  
Harrison, AR 72601

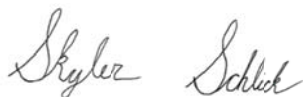
**RE: City of Harrison WWTP - Response to Inspection (Boone Co)**  
**AFIN: 05-00054 NPDES Permit No.: AR0034321**

Dear Ms. Catlin:

I have reviewed the response pertaining to my September 5, 2018 inspection of the above-referenced facility. The information provided sufficiently addresses the violations referenced in my inspection report. At this time, the Department has no further comment concerning this particular inspection. Acceptance of this response by the Department does not preclude any future enforcement action deemed necessary at this site or any other site.

If we need further information concerning this matter, we will contact you. Thank you for your attention to this matter. Should you have any questions, feel free to contact me at (870) 424-3322 ext. 2 or you may e-mail me at [schlicks@adeq.state.ar.us](mailto:schlicks@adeq.state.ar.us).

Sincerely,



Skyler Schlick  
District 2 Field Inspector  
Office of Water Quality