

## Jamie Belcourt (adpce.ad)

---

**From:** Eggleston, Marybeth <MEggleston@nlrwu.com>  
**Sent:** Friday, April 28, 2023 3:37 PM  
**To:** Jamie Belcourt (adpce.ad)  
**Cc:** Foreman, Mitch; Stacie Wassell (adpce.ad); David Ramsey (adpce.ad); Richard Healey (adpce.ad); Zachary Carroll (adpce.ad); Bryan Leamons (adpce.ad); Caipen, Beth; Clayton, Michael  
**Subject:** RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626  
**Attachments:** 2018-2023 Lead Cadmium.xlsx; 2020-2021 Industrial Metals.pdf; Updated 2022 Maumelle.pdf; FM pps\_form 2021.pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Ms. Belcourt,

Thank you for speaking with me yesterday about the pretreatment information you requested.

I have attached a corrected Maumelle 2022 monitoring results report. As part of our review, we found a data entry mistake for the 5/10/2022 Cadmium during our review. We believe this result may have been reported in the wrong units and have asked for the contract lab to verify this. For example, converting units from mg/l to µg/l may be the result of human error.

I sent the contract lab (ESC) an email on April 3, 2023, asking for verification of the 2021 first quarter results in question with no response back. I called the contracted lab (ESC) this morning, April 28, 2023, asking for verification of the 2021 first quarter results in question and talked to Ashley Greene. Ms. Green said they had pulled QC and did not see any problems and said she would send something in writing, I will send that information as soon as we receive it. As of January 1, 2023, we no longer use ESC as a contracted lab. We have had past instances where we have requested verification of results and corrected reports were sent shortly after.

There was no additional testing conducted in 2021 for the exceedances of lead and cadmium. There was a Priority Pollutant Scan (PPS) for Five Mile conducted in 2021 and all permitted industries conduct metals testing twice a year. I have attached those results along with a spreadsheet where we reviewed data from 2018-2023. During this data review we found the highest lead result was 134 µg/l and found one other result for cadmium that exceeded

We have revised our procedure for reviewing sampling results conducted by contract labs. Below you will find a list of those revisions.

- Have a check system in place to flag high results so that we can notify DEQ and resample.
  - Created a new spreadsheet for results to be entered into that will highlight when any result is over the MAHC total.
- Multiple people that will review quarterly data as we receive results as part of the new checks and balances procedures.

If you have any questions, please feel free to reach out to me or Mitch Foreman, Pretreatment Supervisor. If you would like an in-person meeting, we are available at your convenience.

Thank you,

Marybeth Eggleston  
Environmental Compliance & Safety Manager  
North Little Rock Wastewater  
7400 Baucum Pike  
(PO Box 17898)  
North Little Rock, AR 72117  
501-945-7186



---

**From:** Jamie Belcourt (adpce.ad)  
**Sent:** Thursday, April 27, 2023 11:48 AM  
**To:** Eggleston, Marybeth ; Caipen, Beth  
**Cc:** Foreman, Mitch ; Stacie Wassell (adpce.ad) ; David Ramsey (adpce.ad) ; Richard Healey (adpce.ad) ; Zachary Carroll (adpce.ad) ; Bryan Leamons (adpce.ad)  
**Subject:** RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Hello,

I spoke with Mr. Foreman on April 21, 2023 regarding your concerns. While speaking to Mr. Foreman, I requested information and/or documentation on any resampling that may have occurred as a result of the detected exceedances of lead and cadmium during the 2021 reporting year. Additionally, I also inquired about NLRWU meeting the MQLs and Detection Levels Achieved within the facility's annual reports. Mr. Foreman indicated that he would defer to Ms. Eggleston in regards to these questions.

Please provide a response to the above.

Thank you,

**Jamie Belcourt** | State Pretreatment Coordinator  
**Division of Environmental Quality | Office of Water Quality**  
**Policy and Administration**  
5301 Northshore Drive | North Little Rock, AR 72118  
t: 501.682.0858 | c: 501.287.8714 | e: [jamie.belcourt@adeq.state.ar.us](mailto:jamie.belcourt@adeq.state.ar.us)



**ARKANSAS**  
ENERGY & ENVIRONMENT

---

**From:** Jamie Belcourt (adpce.ad)  
**Sent:** Monday, April 17, 2023 3:23 PM  
**To:** 'Eggleston, Marybeth' <[MEggleston@nlrwu.com](mailto:MEggleston@nlrwu.com)>; Caipen, Beth <[BCaipen@nlrwu.com](mailto:BCaipen@nlrwu.com)>  
**Cc:** Foreman, Mitch <[MForeman@nlrwu.com](mailto:MForeman@nlrwu.com)>; Stacie Wassell (adpce.ad) <[Stacie.Wassell@adeq.state.ar.us](mailto:Stacie.Wassell@adeq.state.ar.us)>; David Ramsey (adpce.ad) <[David.E.Ramsey@adeq.state.ar.us](mailto:David.E.Ramsey@adeq.state.ar.us)>; Richard Healey (adpce.ad) <[Richard.Healey@adeq.state.ar.us](mailto:Richard.Healey@adeq.state.ar.us)>; Zachary Carroll (adpce.ad) <[Zachary.Carroll@adeq.state.ar.us](mailto:Zachary.Carroll@adeq.state.ar.us)>; Bryan Leamons (adpce.ad) <[Bryan.Leamons@adeq.state.ar.us](mailto:Bryan.Leamons@adeq.state.ar.us)>

**Subject:** RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Hello Ms. Eggleston,

I received and reviewed the information that was provided to me on 4/14/2023. I appreciate the quick response.

Mr. Foreman – If you are available tomorrow (4/18/2023), I will give you a call. Please provide a good phone number to reach you at.

Is there a particular time that is better for you? If tomorrow is not a good day, please let me know when you'll be available.

Thank you,

**Jamie Belcourt** | State Pretreatment Coordinator  
**Division of Environmental Quality | Office of Water Quality**  
**Policy and Administration**

5301 Northshore Drive | North Little Rock, AR 72118

t: 501.682.0858 | c: 501.287.8714 | e: [jamie.belcourt@adeq.state.ar.us](mailto:jamie.belcourt@adeq.state.ar.us)



---

**From:** Eggleston, Marybeth [<mailto:MEggleston@nlrwu.com>]

**Sent:** Friday, April 14, 2023 3:16 PM

**To:** Jamie Belcourt (adpce.ad); Caipen, Beth

**Cc:** Foreman, Mitch; Stacie Wassell (adpce.ad); David Ramsey (adpce.ad); Richard Healey (adpce.ad); Zachary Carroll (adpce.ad); Bryan Leamons (adpce.ad)

**Subject:** RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Ms. Belcourt,

We have not received a response from the contracted lab (ESC) verifying the 2021 second quarter Lead and Cadmium results for all for NLRW treatment plants.

I have attached the 2021 and 2022 sampling analytical data with chain of custodies for all NLRW treatment plants and Notices of Violation for all non-compliant SIUs for 2021 and 2022 you requested. I also attached a corrected Maumelle 2021 monitoring results report. We found a data entry mistake for the 2/2/2021 Antimony during our review.

Mitch Forman and I left you a voicemail this morning. We would like to talk to you regarding the Lead and Cadmium explanation and the MQLs. I will be out of the office next week, but Mitch Foreman will be available.

Thank you,

Marybeth Eggleston  
Environmental Compliance & Safety Manager

North Little Rock Wastewater  
7400 Baucum Pike  
(PO Box 17898)  
North Little Rock, AR 72117  
501-945-7186



---

**From:** Jamie Belcourt (adpce.ad) <[jamie.belcourt@adeq.state.ar.us](mailto:jamie.belcourt@adeq.state.ar.us)>  
**Sent:** Thursday, April 13, 2023 3:27 PM  
**To:** Caipen, Beth <[BCaipen@nlrwu.com](mailto:BCaipen@nlrwu.com)>  
**Cc:** Foreman, Mitch <[MForeman@nlrwu.com](mailto:MForeman@nlrwu.com)>; Eggleston, Marybeth <[MEggleston@nlrwu.com](mailto:MEggleston@nlrwu.com)>; Stacie Wassell (adpce.ad) <[Stacie.Wassell@adeq.state.ar.us](mailto:Stacie.Wassell@adeq.state.ar.us)>; David Ramsey (adpce.ad) <[David.E.Ramsey@adeq.state.ar.us](mailto:David.E.Ramsey@adeq.state.ar.us)>; Richard Healey (adpce.ad) <[Richard.Healey@adeq.state.ar.us](mailto:Richard.Healey@adeq.state.ar.us)>; Zachary Carroll (adpce.ad) <[Zachary.Carroll@adeq.state.ar.us](mailto:Zachary.Carroll@adeq.state.ar.us)>; Bryan Leamons (adpce.ad) <[Bryan.Leamons@adeq.state.ar.us](mailto:Bryan.Leamons@adeq.state.ar.us)>  
**Subject:** RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Ms. Caipen,

Do you have an update from your lab?

Thank you,

**Jamie Belcourt** | State Pretreatment Coordinator  
**Division of Environmental Quality | Office of Water Quality**  
**Policy and Administration**  
5301 Northshore Drive | North Little Rock, AR 72118  
t: 501.682.0858 | c: 501.287.8714 | e: [jamie.belcourt@adeq.state.ar.us](mailto:jamie.belcourt@adeq.state.ar.us)



**ARKANSAS**  
ENERGY & ENVIRONMENT

---

**From:** Caipen, Beth [<mailto:BCaipen@nlrwu.com>]  
**Sent:** Friday, April 7, 2023 8:58 AM  
**To:** Jamie Belcourt (adpce.ad)  
**Cc:** Foreman, Mitch; Eggleston, Marybeth; Stacie Wassell (adpce.ad); David Ramsey (adpce.ad); Richard Healey (adpce.ad); Zachary Carroll (adpce.ad); Bryan Leamons (adpce.ad)  
**Subject:** RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Jamie

We have contacted the lab (ESC) to verify the results for the lead and cadmium on 2/2/2021. Hopefully, they will get back with us in regard to our request. As soon as we hear from them, we will send you all the information you asked for. Thank you for your patience.

Beth

Beth Caipen  
Pretreatment Clerk  
North Little Rock Wastewater  
7400 Baucum Pike  
(PO Box 17898)  
North Little Rock, AR 72117  
501-945-7186



---

**From:** Jamie Belcourt (adpce.ad) <[jamie.belcourt@adeq.state.ar.us](mailto:jamie.belcourt@adeq.state.ar.us)>  
**Sent:** Monday, April 3, 2023 9:18 AM  
**To:** Caipen, Beth <[BCaipen@nlrwu.com](mailto:BCaipen@nlrwu.com)>  
**Cc:** Foreman, Mitch <[MForeman@nlrwu.com](mailto:MForeman@nlrwu.com)>; Eggleston, Marybeth <[MEggleston@nlrwu.com](mailto:MEggleston@nlrwu.com)>; Stacie Wassell (adpce.ad) <[Stacie.Wassell@adeq.state.ar.us](mailto:Stacie.Wassell@adeq.state.ar.us)>; David Ramsey (adpce.ad) <[David.E.Ramsey@adeq.state.ar.us](mailto:David.E.Ramsey@adeq.state.ar.us)>; Richard Healey (adpce.ad) <[Richard.Healey@adeq.state.ar.us](mailto:Richard.Healey@adeq.state.ar.us)>; Zachary Carroll (adpce.ad) <[Zachary.Carroll@adeq.state.ar.us](mailto:Zachary.Carroll@adeq.state.ar.us)>; Bryan Leamons (adpce.ad) <[Bryan.Leamons@adeq.state.ar.us](mailto:Bryan.Leamons@adeq.state.ar.us)>  
**Subject:** NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Hello,

North Little Rock Wastewater Utilities' (NLRWU) January 1, 2022 – December 31, 2022 Pretreatment Program Annual Report (NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626) was received and reviewed. In addition, the Pretreatment Program Annual Report for the January 1, 2021 - December 31, 2021 reporting year was reviewed.

Please provide Notices of Violation for all noncompliant SIUs for the 2021 and 2022 reporting years, an explanation for >1,000 µg/l Lead and Cadmium results at several of NLRWU plants on February 2, 2021, and meeting the required MQLs in the effluent samples at all plants.

Further, please submit for review the complete influent and effluent sampling analytical data, along with chain of custody, for the samples taken on the dates below at all treatment plants.

- February 2, 2021
- May 5, 2021
- August 10, 2021
- October 27, 2021
- January 5, 2022
- May 10, 2022
- August 16, 2022
- October 26, 2022

Thank you,

**Jamie Belcourt** | State Pretreatment Coordinator  
**Division of Environmental Quality | Office of Water Quality**  
**Policy and Administration**  
5301 Northshore Drive | North Little Rock, AR 72118  
t: 501.682.0858 | c: 501.287.8714 | e: [jamie.belcourt@adeq.state.ar.us](mailto:jamie.belcourt@adeq.state.ar.us)



**ARKANSAS**  
ENERGY & ENVIRONMENT

### Faulkner Lake Influent

Metal	3/6/2018 (µg/l)	5/15/2018 (µg/l)	8/13/2018 (µg/l)	10/22/2018 (µg/l)	3/5/2019 (µg/l)	6/25/2019 (µg/l)	8/13/2019 (µg/l)	10/22/2019 (µg/l)	2/3/2020 (µg/l)	5/6/2020 (µg/l)	8/11/2020 (µg/l)	10/6/2020 (µg/l)
Cadmium	6	<4	6.4	6.1	<4.0	<4.0	<4.0	<7.0	<1.5	<7.0	<6.4	<6.4
Lead	<10.0	<10.0	19.9	<10.0	<10.0	<10.0	<10.0	29.4	<15.0	13.3	<4.5	39.8

Metal	2/2/2021 (µg/l)	5/5/2021 (µg/l)	8/10/2021 (µg/l)	10/27/2021 (µg/l)	1/5/2022 (µg/l)	5/10/2022 (µg/l)	8/16/2022 (µg/l)	10/26/2022 (µg/l)	2/7/2023 (µg/l)
Cadmium	6.4	<20	<20	<20	<20	<20	<50	<4	<0.26
Lead	1043.6	<10	28.3	33	<10	36.8	<50	<10	2.33

### White Oak Influent

Metal	3/6/2018 (µg/l)	5/15/2018 (µg/l)	8/13/2018 (µg/l)	10/22/2018 (µg/l)	3/5/2019 (µg/l)	6/25/2019 (µg/l)	8/13/2019 (µg/l)	10/22/2019 (µg/l)	2/3/2020 (µg/l)	5/6/2020 (µg/l)	8/11/2020 (µg/l)	10/6/2020 (µg/l)
Cadmium	5	4	6.4	5.5	<4.0	<4.0	<4.0	<7.0	<1.5	<7.0	43.7	<6.4
Lead	<10.0	<10.0	15.1	<10.0	<10.0	<10.0	<10.0	18.7	<15.0	11.1	<4.5	11.4

Metal	2/2/2021 (µg/l)	5/5/2021 (µg/l)	8/10/2021 (µg/l)	10/27/2021 (µg/l)	1/5/2022 (µg/l)	5/10/2022 (µg/l)	8/16/2022 (µg/l)	10/26/2022 (µg/l)	2/7/2023 (µg/l)
Cadmium	<6.4	<20	<20	<20	<20	<20	<20	<4	<0.26
Lead	1043.7	<10	26.4	46	109	35.4	<50	<10	2.76

### Five Mile Influent

Metal	3/6/2018 (µg/l)	5/15/2018 (µg/l)	8/13/2018 (µg/l)	10/22/2018 (µg/l)	3/5/2019 (µg/l)	6/25/2019 (µg/l)	8/13/2019 (µg/l)	10/22/2019 (µg/l)	2/3/2020 (µg/l)	5/6/2020 (µg/l)	8/11/2020 (µg/l)	10/6/2020 (µg/l)
Cadmium	<4.0	<4.0	6.3	6.2	<4.0	<4.0	<4.0	<7.0	<1.5	<7.0	<6.4	<6.4
Lead	<10.0	<10.0	13.1	<10.0	<10.0	<10.0	<10.0	18.6	<15.0	10.3	<4.5	10.6

Metal	2/2/2021 (µg/l)	5/5/2021 (µg/l)	8/10/2021 (µg/l)	10/27/2021 (µg/l)	1/5/2022 (µg/l)	5/10/2022 (µg/l)	8/16/2022 (µg/l)	10/26/2022 (µg/l)	2/7/2023 (µg/l)
Cadmium	15	<20	<20	<20	<20	<20	<50	<4	<0.26
Lead	1043.8	<10	25.7	134	100	47.8	<50	<10	0.963

## Maumelle Influent

Metal	3/6/2018 (µg/l)	5/15/2018 (µg/l)	8/13/2018 (µg/l)	10/22/2018 (µg/l)	3/5/2019 (µg/l)	6/25/2019 (µg/l)	8/13/2019 (µg/l)	10/22/2019 (µg/l)	2/3/2020 (µg/l)	5/6/2020 (µg/l)	8/11/2020 (µg/l)	10/6/2020 (µg/l)
Cadmium	5	<4.0	9.2	5.4	<4.0	<4.0	<4.0	<7.0	<12.0	<7.0	<7.7	11.8
Lead	<10.0	<10.0	14.1	<10.0	<10.0	<10.0	<10.0	22.8	<15.0	10.8	<4.5	12.5

Metal	2/2/2021 (µg/l)	5/5/2021 (µg/l)	8/10/2021 (µg/l)	10/27/2021 (µg/l)	1/5/2022 (µg/l)	5/10/2022 (µg/l)	8/16/2022 (µg/l)	10/26/2022 (µg/l)	2/7/2023 (µg/l)
Cadmium	<6.4	<20	<20	<10	<20	<20000	<50	<4	<0.26
Lead	1043.7	12.8	27.3	63	110	35.58	<50	<10	0.883



### Faulkner Lake Effluent

Metal	3/6/2018 (µg/l)	5/15/2018 (µg/l)	6/19/2018 (µg/l)	8/13/2018 (µg/l)	10/22/2018 (µg/l)	3/5/2019 (µg/l)	6/25/2019 (µg/l)	8/13/2019 (µg/l)	10/22/2019 (µg/l)	2/3/2020 (µg/l)	5/6/2020 (µg/l)	8/11/2020 (µg/l)
Cadmium	5.4	<0.1	6.4	6.19	0.63	<1.0	<0.1	<0.1	3.98	<11.5	<5.544	7.83
Lead	10.2	2	4.9	12.53	0.68	<0.5	<0.5	5.49	17.42	<15.0	9.98	<4.488

Metal	10/6/2020 (µg/l)	2/2/2021 (µg/l)	5/5/2021 (µg/l)	8/10/2021 (µg/l)	10/27/2021 (µg/l)	1/5/2022 (µg/l)	5/10/2022 (µg/l)	8/16/2022 (µg/l)	10/26/2022 (µg/l)	2/7/2023 (µg/l)
Cadmium	<0.0064	1312.81	<20	<20	<20	<20	<20	<50	<4	<0.26
Lead	10.1	1043.74	<10	25.3	17.21	22.16	35.29	<10	<10	0.33

### White Oak Effluent

Metal	3/6/2018 (µg/l)	5/15/2018 (µg/l)	8/13/2018 (µg/l)	10/22/2018 (µg/l)	3/5/2019 (µg/l)	6/25/2019 (µg/l)	8/13/2019 (µg/l)	10/22/2019 (µg/l)	2/3/2020 (µg/l)	5/6/2020 (µg/l)	8/11/2020 (µg/l)	10/6/2020 (µg/l)
Cadmium	5	<0.1	6.34	0.7	<1.0	<0.1	<0.1	4.21	<11.5	<5.544	<6.435	<6.435
Lead	3.5	4.5	12.55	0.75	<0.5	<0.5	<0.5	39.85	<15.0	10.2	<4.488	10.16

Metal	2/2/2021 (µg/l)	5/5/2021 (µg/l)	8/10/2021 (µg/l)	10/27/2021 (µg/l)	1/5/2022 (µg/l)	5/10/2022 (µg/l)	8/16/2022 (µg/l)	10/26/2022 (µg/l)	2/7/2023 (µg/l)
Cadmium	<6.435	<20	<20	<20	<20	<20	<20	<4	<0.26
Lead	1043.73	<10	25.22	11.34	110.28	35.74	<10	<10	<0.26

### Five Mile Effluent

Metal	3/6/2018 (µg/l)	5/15/2018 (µg/l)	8/13/2018 (µg/l)	10/22/2018 (µg/l)	3/5/2019 (µg/l)	6/25/2019 (µg/l)	8/13/2019 (µg/l)	10/22/2019 (µg/l)	2/3/2020 (µg/l)	5/6/2020 (µg/l)	8/11/2020 (µg/l)	10/6/2020 (µg/l)
Cadmium	7	<0.1	6.17	0.79	<1.0	4.78	<0.1	4.02	<11.5	<5.544	<6.435	<6.435
Lead	4.4	3.5	12.38	0.59	<0.5	4.56	<0.5	17.24	<15.0	10.25	<4.488	10.15

Metal	2/2/2021 (µg/l)	5/5/2021 (µg/l)	8/10/2021 (µg/l)	10/27/2021 (µg/l)	11/17/2021 (µg/l)	1/5/2022 (µg/l)	5/10/2022 (µg/l)	8/16/2022 (µg/l)	10/26/2022 (µg/l)	2/7/2023 (µg/l)
Cadmium	1312.39	<20	<20	<20	ND	<20	<20	<20	<4	<0.26
Lead	1043.76	<10	25.47	12.88	43.05	21.9	34.91	<10.0	<10.0	0.261

## Maumelle Effluent

Metal	3/6/2018 (µg/l)	5/15/2018 (µg/l)	8/13/2018 (µg/l)	10/22/2018 (µg/l)	3/5/2019 (µg/l)	3/6/2019 (µg/l)	6/25/2019 (µg/l)	8/13/2019 (µg/l)	10/22/2019 (µg/l)	2/3/2020 (µg/l)	5/6/2020 (µg/l)	8/11/2020 (µg/l)
Cadmium	5.1	3	1.62	5.87	<1.0	0.85	4.83	<1.0	9.41	<11.5	<5.544	<6.435
Lead	3.6	2.8	2.77	2.94	<0.5	ND	<0.5	<0.5	17.93	<15.0	10.03	<4.488

Metal	10/6/2020 (µg/l)	2/2/2021 (µg/l)	5/5/2021 (µg/l)	8/10/2021 (µg/l)	10/27/2021 (µg/l)	1/5/2022 (µg/l)	5/10/2022 (µg/l)	8/16/2022 (µg/l)	10/26/2022 (µg/l)	2/7/2023 (µg/l)
Cadmium	<6.435	1312.9	<20	<20	<20	<20	<20	<20	<4	<0.26
Lead	10.24	1043.75	<10	21.62	<10	10.74	35.15	<10	<10	0.441

# INDUSTRIAL METALS ANALYSIS

## ARKANSAS SURGICAL

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	0.0140	<0.0080	<0.0070	0.0197	0.013
Beryllium		0.0046	<0.0064		
Cadmium	<0.0070	<0.0070	<0.0064	<0.0200	0.01
Chromium	0.0119	<0.0060	<0.0060	<0.0200	0.638
Copper	0.1154	0.0702	0.0791	0.0737	0.376
Lead	<0.0050	0.0053	0.0154	<0.0100	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	<0.0070	0.0133	<0.0063	<0.0200	0.077
Selenium		<0.0109			0.002
Silver	0.0076	<0.0030	0.0065	<0.1200	0.108
Thallium	0.0109	<0.0040	<0.0040	<0.0500	
Zinc	0.5513	0.2042	0.1440	0.1809	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.00			

# INDUSTRIAL METALS ANALYSIS

## BAPTIST

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	0.0141	<0.0070	<0.0070	0.0127	0.013
Beryllium		<0.0040			
Cadmium	<0.0070	<0.0064	<0.0064	<0.0200	0.01
Chromium	<0.0060	<0.0060	<0.0060	<0.0200	0.638
Copper	0.0590	0.0170	0.0362	0.0433	0.376
Lead	<0.0050	<0.0045	0.0158	<0.0100	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	<0.0070	<0.0063	<0.0063	<0.0200	0.077
Selenium		<0.0109			0.002
Silver	0.0079	<0.0024	0.0064	<0.1200	0.108
Thallium	0.0109	<0.0033	<0.0040	<0.0500	
Zinc	0.5472	0.0575	0.3695	0.1921	0.789
Cyanide		<0.0100			0.3227
Phenolics		<0.05			

# INDUSTRIAL METALS ANALYSIS

BEN E. KEITH

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		0.0093			
Arsenic	0.0113	<0.0070	<0.0070	0.0104	0.013
Beryllium		<0.0040			
Cadmium	<0.0070	<0.0064	0.0065	<0.0200	0.01
Chromium	<0.0060	0.0237	0.0080	<0.0200	0.638
Copper	0.0308	0.0194	0.0151	<0.0200	0.376
Lead	<0.0050	<0.0045	0.0156	0.0192	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	<0.0070	<0.0053	<0.0063	<0.0200	0.077
Selenium		<0.0109			0.002
Silver	0.0071	<0.0024	0.0063	<0.1200	0.108
Thallium	0.0109	<0.0033	<0.0040	<0.0500	
Zinc	0.6245	0.6663	0.8590	<0.0500	0.789
Cyanide		<0.0100			0.3227
Phenolics		<0.05			

# INDUSTRIAL METALS ANALYSIS

## BLUE BEACON

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0725			
Arsenic	0.0226	0.0104	0.0140	0.0249	0.013
Beryllium		<0.0040			
Cadmium	<0.0070	0.0234	0.0327	0.0425	0.01
Chromium	0.0504	0.0993	0.0876	0.0692	0.638
Copper	0.3840	0.4099	0.2517	0.2436	0.376
Lead	0.1223	0.0447	0.0605	0.0466	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	0.0404	0.0875	0.0827	0.0874	0.077
Selenium		<0.0109			0.002
Silver	0.0087	<0.0024	0.0065	<0.1200	0.108
Thallium	0.0110	<0.0033	<0.0040	<0.0500	
Zinc	1.9516	3.1229	4.5719	1.7628	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.71			

# INDUSTRIAL METALS ANALYSIS

## CATERPILLAR SP-002

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	0.0117	<0.0070	0.0461	0.0172	0.013
Beryllium		<0.0040			
Cadmium	<0.0070	<0.0064	0.0517	<0.0200	0.01
Chromium	<0.0060	<0.0060	0.0391	<0.0200	0.638
Copper	<0.0070	<0.0069	0.0340	<0.0200	0.376
Lead	<0.0050	<0.0045	0.0474	<0.0100	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	<0.0070	0.0065	0.0609	0.0264	0.077
Selenium		<0.0109			0.002
Silver	0.0076	<0.0024	0.0377	0.1200	0.108
Thallium	0.0109	<0.0033	0.0318	<0.0500	
Zinc	0.0830	<0.0351	0.0553	0.1041	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.09			

# INDUSTRIAL METALS ANALYSIS

## CAV

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	<0.0235	<0.0080	<0.0270	<0.0260	0.013
Beryllium		0.0045			
Cadmium	<0.00120	0.0123	<0.00125	<0.00120	0.01
Chromium	<0.0125	<0.0060	<0.0125	<0.0120	0.638
Copper	0.0736	0.0191	0.0346	0.02670	0.376
Lead	<0.0156	0.0049	<0.0156	<0.0150	0.083
Mercury	<0.000200	<0.0010	<0.000200	<0.000200	0.001
Molybdenum	<0.0312		<0.0312	<0.0300	0.072
Nickel	<0.0104	0.0111	<0.0104	<0.0100	0.077
Selenium		<0.0109			0.002
Silver	<0.0208	0.0025	<0.0208	<0.0200	0.108
Thallium	<0.073	<0.0040	<0.073	<0.070	
Zinc	0.593	0.0571	0.110	0.0848	0.789
Cyanide		<0.0100			0.3227
Phenolics		<0.05			



# INDUSTRIAL METALS ANALYSIS

## CINTAS

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		0.0105			
Arsenic	<0.0235	<0.0080	<0.0270	<0.0260	0.013
Beryllium		0.0046			
Cadmium	<0.00120	<0.0070	<0.00125	<0.00120	0.01
Chromium	<0.0125	0.0153	<0.0125	<0.0120	0.638
Copper	0.124	0.0905	0.123	0.141	0.376
Lead	<0.0156	0.0146	0.0159	<0.0150	0.083
Mercury	<0.000200	<0.0010	<0.000200	<0.000200	0.001
Molybdenum	<0.0312		<0.0312	0.0387	0.072
Nickel	0.0150	0.0242	0.0154	0.0210	0.077
Selenium		<0.0109			0.002
Silver	<0.0208	0.0027	<0.0208	<0.0200	0.108
Thallium	<0.073	<0.0040	<0.073	<0.070	
Zinc	0.375	0.6631	0.737	0.618	0.789
Cyanide		<0.0100			0.3227
Phenolics		<0.05			

# INDUSTRIAL METALS ANALYSIS

## JB HUNT

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony	0.0205	<0.0042	0.0173		
Arsenic	0.0142	<0.0070	0.0104	0.0205	0.013
Beryllium	<0.0040	<0.0040	0.0097		
Cadmium	<0.0070	<0.0064	0.0123	<0.0200	0.01
Chromium	0.0223	<0.0060	0.0103	<0.0200	0.638
Copper	0.0211	0.00870	0.0390	0.0282	0.376
Lead	0.0055	<0.0045	0.0202	<0.0100	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	<0.0070	<0.0063	0.0110	0.0364	0.077
Selenium	<0.0100	<0.0109	0.0220		0.002
Silver	0.0079	<0.0024	0.0137	<0.1200	0.108
Thallium	0.0109	<0.0033	0.0048	<0.0500	
Zinc	0.7005	0.1300	0.2970	0.3026	0.789
Cyanide	<0.0100	<0.0100	<0.0100		0.3227
Phenolics	<0.04	0.14	0.06		

# INDUSTRIAL METALS ANALYSIS

## KIMBERLY CLARK

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	<0.0070	<0.0080	<0.0070	0.0178	0.013
Beryllium		0.0046			
Cadmium	<0.0070	<0.0070	<0.0064	<0.0200	0.01
Chromium	<0.0060	<0.0060	<0.0060	<0.0200	0.638
Copper	1.2299	0.0782	0.0451	0.0809	0.376
Lead	0.1279	<0.0049	0.0140	0.0253	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	0.0382	0.0099	<0.0063	<0.0200	0.077
Selenium		<0.0109			0.002
Silver	0.0259	0.0026	0.0067	<0.1200	0.108
Thallium	0.1992	<0.0040	<0.0040	<0.0500	
Zinc	4.0282	0.0802	0.3383	0.1632	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.36			

# INDUSTRIAL METALS ANALYSIS

## KOPPERS

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	0.0065	0.0108	0.0072	0.0065	0.013
Beryllium		0.0046			
Cadmium	<0.00021	<0.0070	<0.00021	<0.00021	0.01
Chromium	0.0013	<0.0060	<0.00098	<0.00098	0.638
Copper	0.0056	<0.0070	0.0019	0.0016	0.376
Lead	0.0023	0.0054	0.0009	0.00076	0.083
Mercury	0.00017	<0.0010	<0.00065	<0.00013	0.001
Molybdenum					0.072
Nickel	0.0012	0.0061	0.00051	<0.00033	0.077
Selenium		<0.0109			0.002
Silver	<0.00022	0.0025	<0.00022	<0.00022	0.108
Thallium	<0.00034	<0.0040	<0.00034	<0.00034	
Zinc	0.27	0.1199	0.13	0.055	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.17			

# INDUSTRIAL METALS ANALYSIS

## L'OREAL

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		0.0062			
Arsenic	0.0117	<0.0070	0.0135	0.0120	0.013
Beryllium		<0.0040			
Cadmium	<0.0070	<0.0064	0.0152	<0.0200	0.01
Chromium	0.0114	<0.0060	0.0156	<0.0200	0.638
Copper	0.1918	<0.0069	0.4000	0.0584	0.376
Lead	<0.0050	<0.0045	0.0308	<0.0100	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	0.0254	0.0482	0.0244	<0.0200	0.077
Selenium		<0.0109			0.002
Silver	0.0093	<0.0024	0.0127	<0.1200	0.108
Thallium	0.011	<0.0033	0.0080	<0.0500	
Zinc	3.7654	0.5089	0.7802	0.2543	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.53			

# INDUSTRIAL METALS ANALYSIS

## MAVERICK

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony	0.0292	0.1115	0.1247		
Arsenic	0.0159	<0.0080	0.0081	0.0294	0.013
Beryllium	<0.0040	0.0049	<0.0040		
Cadmium	<0.0070	<0.0070	0.0074	<0.0200	0.01
Chromium	0.0380	0.0947	0.1820	0.1093	0.638
Copper	0.1101	0.5130	0.7853	0.5679	0.376
Lead	0.0071	0.0133	0.0467	0.0205	0.083
Mercury	<0.0010	<0.0010	<00010	<0.0050	0.001
Molybdenum					0.072
Nickel	<0.0070	0.0356	0.0431	0.0470	0.077
Selenium	<0.0100	<0.0109	0.0187		0.002
Silver	0.0068	0.0026	0.0065	<0.1200	0.108
Thallium	0.0109	<0.0040	<0.0040	<0.0500	
Zinc	1.2639	3.7287	4.5006	2.4240	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.18			

# INDUSTRIAL METALS ANALYSIS

## MOLEX

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	<0.004	<0.0080	<0.05	<0.05	0.013
Beryllium		<0.0045			
Cadmium	<0.004	<0.0070	<0.004	<0.004	0.01
Chromium	<0.01	<0.0060	<0.01	<0.01	0.638
Copper	0.70	0.2034	0.38	0.048	0.376
Lead	<0.004	0.0078	<0.04	<0.04	0.083
Mercury	<0.0002	<0.0010	<0.0002	<0.0002	0.001
Molybdenum					0.072
Nickel	0.46	0.3353	1.0	0.39	0.077
Selenium		<0.0109			0.002
Silver	0.014	0.0040	<0.007	<0.007	0.108
Thallium	<0.04	<0.0040	<0.04	<0.04	
Zinc	<0.01	<0.0351	0.0310	<0.01	0.789
Cyanide	0.013	<0.0100	<0.01	<0.01	0.3227
Phenolics		<0.05			

# INDUSTRIAL METALS ANALYSIS

## OAKLEY

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	0.222	<0.0080	0.0121	0.0341	0.013
Beryllium		0.0048			
Cadmium	<0.0070	<0.0070	0.0082	<0.0200	0.01
Chromium	0.0774	0.2691	0.4316	<0.0200	0.638
Copper	0.3229	0.0587	0.0688	0.1865	0.376
Lead	0.0761	0.0107	0.0426	0.0308	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	0.0864	0.0509	0.0364	0.1865	0.077
Selenium		0.0155			0.002
Silver	0.0079	0.0025	0.0064	<0.1200	0.108
Thallium	0.0110	<0.0040	<0.0040	<0.0500	
Zinc	2.2838	14.4874	2.3414	0.7795	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.06			



# INDUSTRIAL METALS ANALYSIS

## ST. VINCENT

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	0.0142	<0.0070	<0.0070	<0.0070	0.013
Beryllium		<0.0040			
Cadmium	<0.0070	<0.0064	<0.0064	<0.0064	0.01
Chromium	<0.0060	<0.0060	<0.0060	<0.0060	0.638
Copper	0.1105	<0.0045	0.0618	<0.0045	0.376
Lead	<0.0050	<0.0045	0.0138	<0.0045	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0010	0.001
Molybdenum					0.072
Nickel	<0.0070	0.0063	<0.0063	<0.0070	0.077
Selenium		0.0109			0.002
Silver	0.0301	<0.0024	0.0064	<0.0024	0.108
Thallium	0.0109	<0.0033	<0.0040	<0.0033	
Zinc	0.2489	0.0713	0.0552	0.2489	0.789
Cyanide		<0.0100			0.3227
Phenolics		0.13			

# INDUSTRIAL METALS ANALYSIS

## TRUCK-O-MAT

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		0.0074			
Arsenic	0.0133	0.0140	0.0079	0.0197	0.013
Beryllium		0.0046			
Cadmium	<0.0070	<0.0070	0.0134	<0.0200	0.01
Chromium	0.0205	0.0086	0.0175	0.0248	0.638
Copper	0.0435	0.0376	0.0886	<0.0200	0.376
Lead	0.0097	0.0079	0.0276	0.0210	0.083
Mercury	<0.0010	<0.0010	<0.0010	<0.0050	0.001
Molybdenum					0.072
Nickel	0.0185	0.0199	0.0271	<0.0200	0.077
Selenium		<0.0109			0.002
Silver	0.0285	0.0025	0.0066	<0.1200	0.108
Thallium	0.0109	<0.0040	<0.0040	<0.0500	
Zinc	0.7775	0.2321	0.6001	1.1889	0.789
Cyanide		<0.0100			0.3227
Phenolics		<0.05			

# INDUSTRIAL METALS ANALYSIS

## TYSON

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0042			
Arsenic	<0.05	<0.0070	<0.05	<0.05	0.013
Beryllium		<0.0040			
Cadmium	<0.004	<0.0064	<0.004	<0.004	0.01
Chromium	<0.01	<0.0060	<0.01	<0.01	0.638
Copper	<0.01	<0.0069	<0.01	<0.01	0.376
Lead	<0.04	<0.0045	<0.04	<0.04	0.083
Mercury	0.00028	<0.0010	<0.0002	<0.0002	0.001
Molybdenum					0.072
Nickel	<0.01	<0.0063	<0.01	<0.01	0.077
Selenium		<0.0109			0.002
Silver	<0.007	<0.0024	<0.007	<0.007	0.108
Thallium	<0.04	<0.0033	<0.04	<0.04	
Zinc	0.069	<0.0351	0.072	0.075	0.789
Cyanide		<0.0100			0.3227
Phenolics		<0.05			

# INDUSTRIAL METALS ANALYSIS

## UNION PACIFIC

	Feb-20	Aug-20	Feb-21	Aug-21	MAHL
<b>METALS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Antimony		<0.0053			
Arsenic	<0.05	<0.0070	<0.05	<0.050	0.013
Beryllium		<0.0040			
Cadmium	<0.004	<0.0064	<0.004	<0.004	0.01
Chromium	<0.01	<0.0060	<0.01	<0.010	0.638
Copper	<0.01	<0.0069	<0.01	<0.01	0.376
Lead	<0.04	<0.0045	<0.04	<0.040	0.083
Mercury	<0.0002	<0.0010	<0.0002	<0.0002	0.001
Molybdenum	0.24		0.17		0.072
Nickel	<0.01	<0.0063	<0.01	0.0150	0.077
Selenium		<0.0109			0.002
Silver	<0.007	<0.0024	<0.007	<0.007	0.108
Thallium		<0.0033	<0.04	<0.04	
Zinc	0.04	<0.0351	0.074	0.0110	0.789
Cyanide		<0.0100			0.3227
Phenolics		<0.05			

**ADEQ**

ARKANSAS  
Department of Environmental Quality

## **Application Form PPS**

### **Priority Pollutant Scan Information**

# ATTENTION

## **“Clean” Sampling Techniques**

Water quality (WQ) standards (Based on aquatic toxicity and human health criteria) for many of the heavy metals are “at” analytical methods’ detection levels (MDL).

It is recognized that **unclean** sampling and lab techniques can and do **cause** contamination sometimes causing measurements to be “seen” as **violations** of the WQ standards. Therefore, the permittee must recognize the **importance** of **eliminating** contamination.

For personnel responsible for collecting samples in answer to effluent monitoring requirements, the Department recommends following sample collection and handling in accordance with EPA's **Method 1669: Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels** as closely as possible and as economically feasible. A copy of Method 1669 is available upon request.

Please convey to your contract testing laboratory the extreme importance of proper sampling techniques associated with analytical testing for heavy metals. Some of the techniques may be considered too expensive to justify implementation but it could be in the best interest of your facility to **submit the PPS Form by using common sense “Clean” Sampling Techniques.**

## GENERAL INSTRUCTION

1. **Generation of a form similar to the PPS form is prohibited without expressed written permission of ADEQ, Discharge Permits Section, Water Division.**
2. All major facilities, all categorical industries, or any facility that believes there are priority pollutant(s) present in their discharge, must submit the Form PPS.
3. All facilities must monitor for **metals** and **cyanide**.
4. Testing requirements for categorical industries are listed in Attachment 1.
5. If one of the EPA approved test methods (40 CFR Part 136) is used the method detection level (MDL) **must be as low as Minimum Quantification Levels (MQL)**. MQLs are based on EPA Region 6 guidance dated April 10, 2006: “MQL = 3.3 X MDL”
6. All the units must be expressed in µg/l (Micro grams per liter).
7. **All the results less than Used Method Detection Level Achieved are reported as ND (Not Detected).**
8. The data requested for the priority pollutant scan in the enclosures shall be submitted with copies of the laboratory results, MDLs and MQLs. Certification that QA/QC procedures were implemented must be submitted with the requested information.
9. All analyses must be performed at the minimum level of sensitivity. The analyses must demonstrate that an acceptable calibration point as low as MQL was used. Test procedures must conform to approved EPA methodology listed in 40 CFR Part 136.

ATTACHMENT 1

TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS INDUSTRY CATEGORY

INDUSTRY CATEGORY

	Volatile	Acid	Base/Neutral	Pesticide
Adhesives & Sealants	X	X	X	-
Aluminum Forming	X	X	X	-
Auto & Other Laundries	X	X	X	X
Battery Manufacturing	X	-	X	-
Coal Mining	X	X	X	X
Coil Coating	X	X	X	-
Copper Forming	X	X	X	-
Electric & Electronic Compounds	X	X	X	X
Electroplating	X	X	X	-
Explosives Manufacturing	-	X	X	-
Foundries	X	X	X	-
Gum & Wood Chemicals	X	X	X	X
Inorganic Chemicals Manufacturing	X	X	X	-
Iron & Steel Manufacturing	X	X	X	-
Leather Tanning & Finishing	X	X	X	X
Mechanical Products Manufacturing	X	X	X	-
Nonferrous Metals Manufacturing	X	X	X	X
Ore Mining	X	X	X	X
Organic Chemicals Manufacturing	X	X	X	X
Paint & Ink Formulation	X	X	X	X
Pesticides	X	X	X	X
Petroleum Refining	X	X	X	X
Pharmaceutical Preparations	X	X	X	-
Photographic Equipment & Supplies	X	X	X	X
Plastic & Synthetic Materials Manufacturing	X	X	X	X
Plastic Processing	X	-	-	-
Porcelain Enameling	X	-	X	X
Printing & Publishing	X	X	X	X
Pulp & Paperboard Mills	X	X	X	X
Rubber Processing	X	X	X	-
Soap & Detergent Manufacturing	X	X	X	-
Steam Electric Power Plants	X	X	X	-
Textile Mills	X	X	X	X
Timber Products Processing	X	X	X	X

X

Testing required.

- Testing not required.



**ARKANSAS Department of Environmental Quality  
PPS REQUIREMENTS**

1. Name of facility:  
North Little Rock Wastewater-Five Mile Creek

2. Name, address and telephone number of laboratory:  
Environmental Services Company, Inc. 13715 W. Markham Little Rock, AR 72211  
American Interplex 8600 Kanis Rd Little Rock, AR 72204  
ACZ Laboratories 2773 Downhill Dr Steamboat Springs, CO 80487

3. Is the lab certified by the State of Arkansas? Yes  No

4. What are the certification dates?  
Issued data 7/21, 2/21, 3/21 Expire date 7/22, 2/22, 3/22

5. Is the laboratory certified for all the parameters?  
YES  No  (Explain)

\_\_\_\_\_

\_\_\_\_\_

6. Date and time of samples collected:  
11/17/2021 - 0815

7. Date and time samples were received in the laboratory:  
11/17/2021 - 1430

8. Sample location (Outfall No.):  
North Little Rock Wastewater-Five Mile Creek

9. Samples collected by:  
Name Bryan Croft and Kayla Jones  
Title Lab Tech  
Telephone 501-945-7186

10. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Michael B. Clayton Director  
Printed Name of person signing Title

\_\_\_\_\_  
Signature Date signed

List all attachments to this form:  
Analytical reports and chain of custody

METALS AND CYANIDE	LABORATORY ANALYSIS			REQUIRED MOL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
1. Antimony (Total), Recoverable	13.94	200.8	10	60
2. Arsenic (Total), Recoverable	ND	200.8	0.5	0.5
3. Beryllium (Total), Recoverable	ND	200.8	0.5	0.5
4. Cadmium (Total), Recoverable	ND	200.8	0.5	0.5
5. Chromium (Total), Recoverable	ND	200.8	10	10
7. Chromium (6+), Dissolved	ND	3500-Cr B	10	10
8. Copper (Total), Recoverable	ND	200.8	0.5	0.5
9. Lead (Total), Recoverable	43.05	200.8	0.5	0.5
10. Mercury (Total), Recoverable	0.00578	1631M	0.0003	0.005
12. Nickel (Total), Recoverable	ND	200.8	0.5	0.5
13. Selenium (Total), Recoverable	8.48	200.8	5	5
14. Silver (Total), Recoverable	ND	200.8	0.5	0.5
15. Thallium (Total), Recoverable	ND	200.8	0.5	0.5
16. Zinc (Total), Recoverable	35.86	200.8	0.5	20
129. Phenols, Total Recoverable	ND	420.1	5	5
17. Cyanide (Total), Recoverable	ND	4500-CN F	10	10

DIOXIN	LABORATORY ANALYSIS			REQUIRED MOL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
18. 2,3,7,8-Tetrachloro-debenzo-p-dioxin (TCDD)	ND	625.1	1.0	0.00001

VOLATILE COMPOUNDS	LABORATORY ANALYSIS			REQUIRED MOL ( $\mu\text{g/l}$ )
	RESULTS ( $\mu\text{g/l}$ )	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED ( $\mu\text{g/l}$ )	
19. Acrolein	ND	624.1	20	50
20. Acrylonitrile	ND	624.1	10	20
21. Benzene	ND	624.1	5	10
22. Bromoform	ND	624.1	5	10
23. Carbon Tetrachloride	ND	624.1	2	2
24. Chlorobenzene	ND	624.1	5	10
25. Chlorodibromomethane	ND	624.1	5	10
26. Chloroethane	ND	624.1	50	50
27. 2-Chloroethyl vinyl ether	ND	624.1	10	10
28. Chloroform	ND	624.1	4	10
29. Dichlorobromomethane	ND	624.1	5	10
30. 1, 1-Dichloroethane	ND	624.1	5	10
31. 1, 2-Dichloroethane	ND	624.1	5	10
32. 1, 1-Dichloroethylene	ND	624.1	5	10
33. 1, 2-Dichloropropane	ND	624.1	5	10
34. 1, 3-Dichloropropylene	ND	624.1	5	10
35. Ethyl benzene	ND	624.1	5	10
36. Methyl Bromide [Bromomethane]	ND	624.1	5	50
37. Methyl Chloride [Chloromethane]	ND	624.1	5	50
38. Methylene Chloride	ND	624.1	5	20
39. 1, 1, 2, 2-Tetrachloroethane	ND	624.1	5	10
40. Tetrachloroethylene	ND	624.1	5	10
41. Toluene	ND	624.1	5	10
42. 1, 2-trans-Dichloroethylene	ND	624.1	5	10
43. 1, 1, 1-Trichloroethane	ND	624.1	5	10
44. 1, 1, 2-Trichloroethane	ND	624.1	5	10
45. Trichloroethylene	ND	624.1	5	10
46. Vinyl Chloride	ND	624.1	2	10

ACID COMPOUNDS	LABORATORY ANALYSIS			REQUIRED MQL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
47. 2-Chlorophenol	ND	625.1	10	10
48. 2, 4-Dichlorophenol	ND	625.1	50	10
49. 2, 4-Dimethylphenol	ND	625.1	10	10
50. 4, 6-Dinitro-o-Cresol [2 methyl 4, 6-dinitrophenol]	ND	625.1	50	50
51. 2, 4-Dinitrophenol	ND	625.1	50	50
52. 2-Nitrophenol	ND	625.1	20	20
53. 4-Nitrophenol	ND	625.1	50	50
54. P-Chloro-m-Cresol [4 chloro-3-methylphenol]	ND	625.1	10	10
55. Pentachlorophenol	ND	625.1	5	5
56. Phenol	ND	625.1	10	10
57. 2, 4, 6-Tri chlorophenol	ND	625.1	10	10

BASE/NEUTRAL COMPOUNDS	LABORATORY ANALYSIS			REQUIRED MOL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
58. Acenaphthene	ND	625.1	10	10
59. Acenaphthylene	ND	625.1	10	10
60. Anthracene	ND	625.1	10	10
61. Benzidine	ND	625.1	50	50
62. Benzo(a)anthracene	ND	625.1	5	5
63. Benzo(a)pyrene	ND	625.1	5	5
64. 3, 4-Benzofluoranthene	ND	625.1	10	10
65. Benzo(ghi)perylene	ND	625.1	5	20
66. Benzo(k)fluoranthene	ND	625.1	5	5
67. Bis(2-chloroethoxy) methane	ND	625.1	10	10
68. Bis(2-chloroethyl) ether	ND	625.1	10	10
69. Bis(2-chloroisopropyl) ether	ND	625.1	10	10
70. Bis(2-ethylhexyl) phthalate	ND	625.1	10	10
71. 4-Bromophenyl phenyl ether	ND	625.1	10	10
72. Butyl benzyl phthalate	ND	625.1	10	10
73. 2-Chloronaphthalene	ND	625.1	10	10
74. 4-Chlorophenyl phenyl ether	ND	625.1	10	10
75. Chrysene	ND	624.1	5	5
76. Di benzo (a, h) anthracene	ND	625.1	5	5
77. 1, 2-Dichlorobenzene	ND	624.1	5	10
78. 1, 3-Dichlorobenzene	ND	624.1	5	10
79. 1, 4-Dichlorobenzene	ND	624.1	5	10
80. 3, 3' -Dichlorobenzidine	ND	625.1	5	5
81. Diethyl Phthalate	ND	625.1	10	10
82. Dimethyl Phthalate	ND	625.1	10	10
83. Di-n-Butyl Phthalate	ND	625.1	10	10
84. 2, 4-Dinitrotoluene	ND	625.1	10	10
85. 2, 6-Dinitrotoluene	ND	625.1	10	10
86. Di-n-octyl Phthalate	ND	625.1	10	10

BASE/NEUTRAL COMPOUNDS	LABORATORY ANALYSIS			REQUIRED MOL ( $\mu\text{g/l}$ )
	RESULTS ( $\mu\text{g/l}$ )	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED ( $\mu\text{g/l}$ )	
87. 1, 2-Di phenyl hydrazine	ND	625.1	20	20
89. Fluorene	ND	625.1	10	10
90. Hexachlorobenzene	ND	625.1	5	5
91. Hexachlorobutadiene	ND	625.1	10	10
92. Hexachlorocyclopentadiene	ND	625.1	10	10
93. Hexachloroethane	ND	625.1	20	20
94. Indeno (1, 2, 3-cd) pyrene (2, 3-o-phenylene pyrene)	ND	625.1	5	5
95. Isophorone	ND	625.1	10	10
96. Naphthalene	ND	625.1	10	10
97. Nitrobenzene	ND	625.1	10	10
98. N-nitrosodimethylamine	ND	625.1	50	50
99. N-nitrosodipropylamine	ND	625.1	20	20
100. N-nitrosodiphenylamine	ND	625.1	20	20
101. Phenanthrene	ND	625.1	10	10
102. Pyrene	ND	625.1	10	10
103. 1, 2, 4-Trichlorobenzene	ND	625.1	10	10

PESTICIDES	LABORATORY ANALYSIS			REQUIRED MQL ( $\mu\text{g/l}$ )
	RESULTS ( $\mu\text{g/l}$ )	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED ( $\mu\text{g/l}$ )	
104. Aldrin	ND	608.3	0.01	0.01
105. Alpha-BHC	ND	608.3	0.05	0.05
106. Beta-BHC	ND	608.3	0.05	0.05
107. Gamma-BHC	ND	608.3	0.05	0.05
108. Delta-BHC	ND	608.3	0.05	0.05
109. Chlordane	ND	608.3	0.2	0.2
110. 4, 4' -DDT	ND	608.3	0.02	0.02
111. 4, 4' -DDE (p, p-DDX)	ND	608.3	0.1	0.1
112. 4, 4' -DDD 9(p, p-TDE)	ND	608.3	0.1	0.1
113. Dieldrin	ND	608.3	0.02	0.02
114. Alpha-endosulfan	ND	608.3	0.01	0.01
115. Beta-endosulfan	ND	608.3	0.02	0.02
116. Endosulfan sulfate	ND	608.3	0.1	0.1
117. Endrin	ND	608.3	0.02	0.02
118. Endrin aldehyde	ND	608.3	0.1	0.1
119. Heptachlor	0.054	608.3	0.01	0.01
120. Heptachlor epoxide (BHC-hexachlorocyclohexane)	ND	608.3	0.01	0.01
130. Chlorpyrifos	ND	608.3	0.07	0.07
121. PCB-1242	ND	608.3	0.2	0.2
122. PCB-1254	ND	608.3	0.2	0.2
123. PCB-1221	ND	608.3	0.2	0.2
124. PCB-1232	ND	608.3	0.2	0.2
125. PCB-1248	ND	608.3	0.2	0.2
126. PCB-1260	ND	608.3	0.2	0.2
127. PCB-1016	ND	608.3	0.2	0.2
128. Toxaphene	ND	608.3	0.3	0.3

