

Gage, Hannah

From: Gilliam, Allen
Sent: Monday, December 07, 2015 9:58 AM
To: Gage, Hannah
Subject: AR0020303_North Little Rocks May 2014 TBLL Evaluation Certification Supplement_20151207
Attachments: NLR Local Limits Development11302015.pdf
Follow Up Flag: Follow up
Flag Status: Completed

Hannah,

Would you please scan only the 1st 15 pages of the attachment to the E drive and title it what's in the subject line? Please rename the attachment "NLR TBLL eval certification supplement" (I don't know how to separate them).

I've already downloaded the remaining pages and placed them in their program.

Hope you're feeling better and glad you're back (aren't you?).

Please call if you have questions.

Allen g
501.682.0625

From: Toland, Ed [<mailto:EToland@nlrwu.com>]
Sent: Monday, November 30, 2015 10:39 AM
To: Gilliam, Allen
Subject: NLR Local Limit Development study

Allen,

Attached, is the PDF of the NLR local limit development study and Ashley's treatment plant metals evaluations. I have added these documents back into our Pretreatment Program binder. If you need a hard copy, let me know. I was trying to save you from having to scan them in yourself!

If you need any additional information, let me know.

Thanks,

Ed

Ed Toland, Pretreatment Supervisor
NORTH LITTLE ROCK WASTE WATER UTILITY
7400 Baucum Pike, N.L.R. AR 72117
P.O. Box 17898, N.L.R. AR 72117
(501)945-7186 ext. 116
etoland@nlrwu.com

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PS Form 3800, August 2006
See Reverse for Instructions

MAY - 6 2014
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NORTH LITTLE ROCK WASTE WATER UTILITY

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May 5, 2014

Certified Mail No. 7007 0710 0000 0755 3921

Arkansas Department of Environmental Quality
Attention: Mr. Allen Gilliam
5301 Northshore Drive
North Little Rock, AR 72118-5317

RE: AR0020303 - Faulkner Lake

Dear Mr. Gilliam:

As required by Part II (8)(b) of the above mentioned permit, we have performed a technical evaluation demonstrating that the existing technically based maximum allowable headworks loadings (MAHL) are based on current state water quality standards. The last two years data was used for the evaluation and compared to water quality standard numbers and CFR 503 Sludge Regulations.

We are certifying that the MAHL's currently in the Pretreatment Program are based on current water quality standards and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility and local limits are not necessary at this time.

If there are any questions, please contact Ed Toland at (501) 945-7186 ext.116 .

NORTH LITTLE ROCK WASTE WATER UTILITY

Marc E. Wilkins, P.E.
Director

DUE BEFORE
6-1-2019

Standards. Each POTW with an approved pretreatment program shall continue to develop these limits as necessary and effectively enforce such limits.

The permittee shall, within sixty (60) days of the effective date of this permit, (1) submit a **WRITTEN CERTIFICATION** that a technical evaluation has demonstrated that the existing technically based local limits (TBL) are based on current state water quality standards and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination, **OR** (2) submit a **WRITTEN NOTIFICATION** that a technical evaluation revising the current TBL and a draft sewer use ordinance which incorporates such revisions will be submitted within 12 months of the effective date of this permit.

All specific prohibitions or limits developed under this requirement are deemed to be conditions of this permit. The specific prohibitions set out in 40 CFR Part 403.5(b) shall be enforced by the permittee unless modified under this provision.

- c. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in 40 CFR 122 Appendix D (NPDES Application Testing Requirements) Table II at least once/year and the toxic pollutants in Table III at least 4 times/year (quarterly). If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least 4 times/year (quarterly) on both the influent and the effluent.

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24 hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR 136. Where composite samples are inappropriate, due to sampling, holding time, or analytical constraints, at least 4 grab samples, taken at equal intervals over a representative 24-hour period, shall be taken.

- d. The permittee shall prepare annually a list of Industrial Users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements. For the purposes of this Part, significant noncompliance shall be determined based upon the more stringent of either criteria established at 40 CFR Part 403.8(f)(2)(viii) [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually in the newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW during the month of March.

In addition, during the month of March the permittee shall submit an updated pretreatment program status report to the ADEQ containing the following information:

WQ LEVEL LIMIT, mg/L, SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

REPORTING YEAR: January 1, 2012 to December 31, 2012

TREATMENT PLANT: Faulkner Lake Treatment Plant NPDES PERMIT AR0020303

AVERAGE POTW FLOW: 6.120 MGD % IU FLOW: 9.07

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, ug/L	EFFLUENT DATES SAMPLED					2012 Avg. of 4 Qtrs	Laboratory Analysis		PASS/FAIL 35% SAFETY LIMIT
		Results, ug/L						EPA Method Used	Detection Level Achieved (ug/L)	
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr					
Antimony	NA	<20	<20	<20	<20	<20	200.7	60	NA	
Arsenic	2480	3.64	3.65	3.8	1.84	3.2325	200.8	0.5	PASS	
Beryllium	NA	<0.5	<0.5	<0.5	<0.5	<0.5	200.8	0.5	NA	
Cadmium	35	<0.1	0.5	0.7	<0.1	<0.375	200.8	0.5	PASS	
Chromium	7230	<1	<1	<1	<1	<1	200.7	10	PASS	
Copper	150	1.34	3.77	5.4	4.73	3.8100	200.8	0.5	PASS	
Lead	120	<0.50	0.9	<0.50	<0.50	<0.6	200.8	0.5	PASS	
Mercury	0.3	0.00285	0.00403	0.0871	0.00223	0.0241	1631E	0.005	PASS	
Molybdenum	NA	<10	<10	<10	<10	<10	200.8	10	NA	
Nickel	5540	3	4.44	2.6	1.27	2.8275	200.8	0.5	PASS	
Selenium	138	<5	<5	<5	<5	<5	200.7	5	PASS	
Silver	41	<0.10	3	<0.50	<0.50	<1.025	200.8	0.5	PASS	
Thallium	NA	<0.5	<0.5	<0.5	<0.5	<0.5	200.8	0.5	NA	
Zinc	970	64.400	28.71	37	31.63	40.4350	200.7	20	PASS	
Cyanide	150	<10	<10	<10	<10	<10	SM 4500-CNE	10	PASS	
Phenols (Total)	NA	<5	<5	<5	<5	<5	420.1	5	NA	

File Name: Q:\Industry\WQ LEVEL LIMIT SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

FAULKNER LAKE TREATMENT PLANT AR0020303

Created by: Ashley Barr 02-2014

WQ LEVEL LIMIT, mg/L, SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

REPORTING YEAR: January 1, 2013 to December 31, 2013

TREATMENT PLANT: Faulkner Lake Treatment Plant NPDES PERMIT AR0020303

AVERAGE POTW FLOW: 6.596 MGD % IU FLOW: 8.31

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, mg/L	EFFLUENT DATES SAMPLED					2013 Avg. of 4 Qtrs	Laboratory Analysis		PASS/FAIL 35% SAFETY LIMIT
		Results, mg/L						EPA Method Used	Detection Level Achieved (ug/L)	
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr					
Antimony	NA	<20	<20	<20	<20	<20	200.7	60	NA	
Arsenic	2480	<0.50	5.76	6.8	<0.50	<3.39	200.8	0.5	Pass	
Beryllium	NA	<0.5	<0.5	<0.5	<0.5	<0.5	200.8	0.5	NA	
Cadmium	35	<0.10	<0.10	<0.10	4.1	<1.1	200.8	0.5	Pass	
Chromium	7230	<1	<1	<1	<1	<1	200.7	10	Pass	
Copper	150	3.3	1.35	3.7	<0.5	<2.21	200.8	0.5	Pass	
Lead	120	<0.5	<0.5	0.6	<0.5	<0.53	200.8	0.5	Pass	
Mercury	0.3	0.00259	0.00256	0.00533	0.00265	0.0032825	1631E	0.005	Pass	
Molybdenum	NA	<10	<10	12.3	<10	<10.58	200.8	10	NA	
Nickel	5540	0.89	1.5	5.1	<0.5	<2.0	200.8	0.5	Pass	
Selenium	138	<5	<5	<5	<5	<5	200.7	5	Pass	
Silver	41	<0.5	<0.5	<0.5	1.7	<0.8	200.8	0.5	Pass	
Thallium	NA	<0.5	<0.5	<0.5	<0.5	<0.5	200.8	0.5	NA	
Zinc	970	20.60	21	14.8	<1	<14.35	200.7	20	Pass	
Cyanide	150	<10	<10	<10	<10	<10	SM 4500-CNE	10	Pass	
Phenols (Total)	NA	<5	41	<5	29	<20	420.1	5	NA	

File Name: Q:\Industry\WQ LEVEL LIMIT SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

FAULKNER LAKE TREATMENT PLANT AR0020303

Created by: Ashley Barr 02-2014

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT PROGRAM

REPORTING YEAR: January 1, 2012 to December 31, 2012

TREATMENT PLANT: Faulkner Lake Treatment Plant NPDES PERMIT AR0020303

AVERAGE POTW FLOW: 6.12 MGD % IU FLOW: 9.07

Biosolids Results

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, mg/L	FAULKNER LAKE DATES SAMPLED					Laboratory Analyis Method Used	PASS/FAIL 35% SAFETY LIMIT
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2012 Avg.		
Antimony	NA	3.375	3.5	<2.5	<2.5	<2.969	SW-846 6020A	NA
Arsenic	75	8	5	12.3	22.49	11.9475	SW-846 6020A	PASS
Beryllium	NA	<3.125	<2.5	<2.5	<2.5	<2.66	SW-846 6020A	NA
Cadmium	85	6.938	<2.5	<2.5	<2.5	<3.61	SW-846 6020A	PASS
Chromium	NA	4.938	20	26.2	40.75	22.972	SW-846 6020A	PASS
Copper	4300	43.938	104	88.9	188.78	106.2795	SW-846 6020A	PASS
Lead	840	36.875	25	36.1	74.57	43.13625	SW-846 6020A	PASS
Mercury	57	<1.1933	<0.1388	<0.1176	<0.1610	<0.4027	SW-846 7471	PASS
Molybdenum	75	4.25	<2.5	3.89	11.07	<5.43	SW-846 6020A	NA
Nickel	420	<3.125	<2.5	<2.5	15.21	<5.83	SW-846 6020A	PASS
Selenium	100	10.25	4	3.676	1.96	4.9715	SW-846 6020A	PASS
Silver	NA	146	<2.5	<2.5	<2.5	<38.38	SW-846 6020A	PASS
Thallium	NA	<3.125	<2.5	<2.5	<2.5	<2.66	SW-846 6020A	NA
Zinc	7500	1156.250	195.5	289.7	496.26	534.4275	SW-846 6020A	PASS
Cyanide	NA	<1.5723	<0.1658	<0.1165	<0.2143	<0.5172	EPA 9010	PASS
PHENOLS (Total)	NA	16.69	8.89	5.6	24	13.7575	EPA9065	NA
ACI PBCs	49.99	ND	NA	NA	NA	NA	EPA 8082	NA

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FAULKNER LAKE TREATMENT PLANT AR0020303

Created by: Ashley Barr 02-2014

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT PROGRAM

REPORTING YEAR: January 1, 2013 to December 31, 2013

TREATMENT PLANT: Faulkner Lake Treatment Plant NPDES PERMIT AR0020303

AVERAGE POTW FLOW: 6.596 MGD % IU FLOW: 8.31

Biosolids results

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, mg/L	FAULKNER LAKE DATES SAMPLED					Laboratory Analysis Method Used	PASS/FAIL 35% SAFETY LIMIT
		Results, mg/kg						
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2013 Avg. of 4 Qtrs		
Antimony	NA	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	NA
Arsenic	75	8	<2.5	12	<2.5	<6.25	SW-846 6020A	PASS
Beryllium	NA	<2.5	<2.5	15.5	<2.5	<5.75	SW-846 6020A	NA
Cadmium	85	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	PASS
Chromium	NA	30	<2.5	4.5	<2.5	<9.88	SW-846 6020A	PASS
Copper	4300	424.5	45	55	34	140	SW-846 6020A	PASS
Lead	840	135.5	20.5	23	<2.5	<45.38	SW-846 6020A	PASS
Mercury	57	<4.62	<0.4136	<0.3019	<0.3911	<1.432	SW-846 7471	PASS
Molybdenum	75	19.5	6.5	35.5	<2.5	<16	SW-846 6020A	NA
Nickel	420	25	3.5	14.5	<2.5	<11.38	SW-846 6020A	PASS
Selenium	100	<2.5	<2.5	7	<2.5	<3.63	SW-846 6020A	PASS
Silver	NA	9	<2.5	<2.5	<2.5	<4.13	SW-846 6020A	PASS
Thallium	NA	<2.5	6	8.5	<2.5	<4.88	SW-846 6020A	NA
Zinc	7500	1097	113	146.5	104.5	365.125	SW-846 6020A	PASS
Cyanide	NA	<4.7393	<0.4137	<0.320	<0.3911	<1.466	EPA 9010	PASS
PHENOLS (Total)	NA	30.5	8.95	19.8	15	18.495	EPA9065	NA
ACI PBCs	49.99	ND	NA	NA	NA	NA	EPA 8082	NA

File Name: Q:\Industry\WQ LEVEL LIMIT SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

FAULKNER LAKE TREATMENT PLANT AR0020303

Created by: Ashley Barr 02-2014

WQ LEVEL LIMIT, mg/L, SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

REPORTING YEAR: January 1, 2012 to December 31, 2012

TREATMENT PLANT: White Oak Bayou AR0038288

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, ug/l	EFFLUENT DATES SAMPLED					2012 Avg.	Laboratory Analysis		PASS/FAIL 35% SAFETY LIMIT
		Results, ug/L						EPA Method Used	Detection Level Achieved (ug/L)	
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr					
Antimony	NA	<20	<20	<20	<20	<20	200.7	60	NA	
Arsenic	2480	2.4	2.87	2.3	3.53	2.78	200.8	0.5	PASS	
Beryllium	NA	<0.50	<0.50	<0.50	<0.50	<0.5	200.8	0.5	NA	
Cadmium	35	<0.10	0.5	<0.10	<0.10	<0.20	200.8	0.5	PASS	
Chromium	7230	<1	<1	<1	<1	<1	200.7	10	PASS	
Copper	150	3	8.19	6.8	12.67	7.6700	200.8	0.5	PASS	
Lead	120	<0.50	0.69	<0.50	<0.50	<0.55	200.8	0.5	PASS	
Mercury	0.3	0.00587	0.0117	0.234	0.00721	0.0647	1631E	0.005	PASS	
Molybdenum	NA	<10	<10	<10	<10	<10	200.8	10	NA	
Nickel	5540	3.2	3.87	2.1	2.63	2.95	200.8	0.5	PASS	
Selenium	138	<5	<5	<5	<5	<5	200.7	5	PASS	
Silver	41	<0.10	3	<0.50	<0.50	<1.025	200.8	0.5	PASS	
Thallium	NA	<0.50	<0.50	<0.50	<0.50	<0.50	200.8	0.5	NA	
Zinc	970	22.800	24.26	70	50.65	41.93	200.7	20	PASS	
Cyanide	150	<10	<10	<10	<10	<10	SM 4500-CNE	10	PASS	
Phenols (Total)	NA	46	66	27	<5	<36	420.1	5	NA	

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Created by: Ashley Barr 03-2014

WQ LEVEL LIMIT, mg/L, SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

REPORTING YEAR: January 1, 2013 to December 31, 2013

TREATMENT PLANT: White Oak Bayou AR0038288

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, ug/	EFFLUENT DATES SAMPLED					Laboratory Analysis		PASS/FAIL 35% SAFETY LIMIT
		Results, ug/L					EPA Method Used	Detection Level Achieved (ug/L)	
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2013 Avg.			
Antimony	NA	<20	<20	29.7	<20	<22.43	200.7	60	NA
Arsenic	2480	<0.50	5.33	8	<0.50	<3.58	200.8	0.5	PASS
Beryllium	NA	<0.50	<0.50	<0.50	<0.50	<0.5	200.8	0.5	NA
Cadmium	35	<0.10	<0.10	0.5	4	<1.18	200.8	0.5	PASS
Chromium	7230	<1	<1	<1	<1	<1	200.7	10	PASS
Copper	150	5	3.12	12	<0.50	<5.16	200.8	0.5	PASS
Lead	120	<0.50	<0.50	0.9	<0.50	<0.6	200.8	0.5	PASS
Mercury	0.3	0.00406	0.00516	0.00847	0.00819	0.0065	1631E	0.005	PASS
Molybdenum	NA	<10	<10	10.5	<0.50	<7.75	200.8	10	NA
Nickel	5540	1.5	2.5	6.5	<0.50	<2.75	200.8	0.5	PASS
Selenium	138	<5	<5	<5	<5	<5	200.7	5	PASS
Silver	41	<0.50	<0.50	3	1.7	<1.425	200.8	0.5	PASS
Thallium	NA	<0.50	<0.50	<0.50	<0.50	<0.50	200.8	0.5	NA
Zinc	970	31.100	21.1	11	<1.00	<16.05	200.7	20	PASS
Cyanide	150	<10	<10	<10	<10	<10	SM 4500-CNE	10	PASS
Phenols (Total)	NA	<5	31	<5	<5	<11.5	420.1	5	NA

File Name: Q:\Industry\WQ LEVEL LIMIT SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

Created by: Ashley Barr 03-2014

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT PROGRAM

REPORTING YEAR: January 1, 2012 to December 31, 2012

TREATMENT PLANT: White Oak Bayou AR0038288

Biosolids results

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, mg/L	White Oak DATES SAMPLED Results, mg/kg					2012 Avg.	Laboratory Analy- Method Used	PASS/FAIL 35% SAFETY LIMIT
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr				
Antimony	NA	<3.125	<5	<2.5	<5	<3.91	SW-846 6020A	NA	
Arsenic	75	15.438	<5	<2.5	7	<7.48	SW-846 6020A	PASS	
Beryllium	NA	<3.125	<5	<2.5	<5	<3.91	SW-846 6020A	NA	
Cadmium	85	5.25	<5	3.7	<5	<4.736	SW-846 6020A	PASS	
Chromium	NA	7.875	10	17.44	26	<13.829	SW-846 6020A	PASS	
Copper	4300	41.313	269	212.4	140	165	SW-846 6020A	PASS	
Lead	840	31.313	30	28.9	30	36.05	SW-846 6020A	PASS	
Mercury	57	<1.1236	<1.0200	<0.4088	<0.7278	<0.8201	SW-846 7471	PASS	
Molybdenum	75	<3.125	<5	<2.5	<5	<3.91	SW-846 6020A	NA	
Nickel	420	<3.125	<5	<2.5	20	<7.656	SW-846 6020A	PASS	
Selenium	100	6.125	<5	6.8	<5	<5.73	SW-846 6020A	PASS	
Silver	NA	66	<5	9	<5	<21.25	SW-846 6020A	PASS	
Thallium	NA	<3.125	<5	<2.5	<5	<3.91	SW-846 6020A	NA	
Zinc	7500	819	841	986.9	520	791.653	SW-846 6020A	PASS	
Cyanide	NA	<1.3495	<1.4180	<0.4088	0.72778	<0.97602	EPA 9010	PASS	
PHENOLS (Total)	NA	30.36	26.94	23.3	12	23.058	EPA9065	NA	
ACI PBCs	49.99	ND	NA	NA	NA	NA	EPA 8082	NA	

File Name: Q:\Industry\WQ LEVEL LIMIT SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

Created by: Ashley Barr 03-2014

MONITORING RESULTS FOR THE ANNUAL PRETREATMENT PROGRAM

REPORTING YEAR: January 1, 2013 to December 31, 2013

TREATMENT PLANT: White Oak Bayou AR0038288

Biosolids results

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, mg/L	White Oak DATES SAMPLED Results, mg/kg					2013 Avg.	Laboratory Ana Method Used	PASS/FAIL 35% SAFETY LIMIT
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr				
Antimony	NA	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	NA	
Arsenic	75	8.5	8	14	6.5	9.25	SW-846 6020A	PASS	
Beryllium	NA	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	NA	
Cadmium	85	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	PASS	
Chromium	NA	18	12	18.5	10.5	14.75	SW-846 6020A	PASS	
Copper	4300	354	232	160.5	268.5	254	SW-846 6020A	PASS	
Lead	840	34	58.5	38	25.5	39	SW-846 6020A	PASS	
Mercury	57	<0.5241	<1.13	<0.2263	<1.275	<0.789	SW-846 7471	PASS	
Molybdenum	75	10	14.5	15	4	10.9	SW-846 6020A	NA	
Nickel	420	19	27.5	30.5	16.5	23.38	SW-846 6020A	PASS	
Selenium	100	3.5	<2.5	7.5	<2.5	<4	SW-846 6020A	PASS	
Silver	NA	4	<2.5	<2.5	<2.5	<2.88	SW-846 6020A	PASS	
Thallium	NA	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	NA	
Zinc	7500	1190	781	406	1079.5	864.125	SW-846 6020A	PASS	
Cyanide	NA	<0.5241	<1.1377	<0.2263	<1.2755	<0.7909	EPA 9010	PASS	
PHENOLS (Total)	NA	30.08	27.62	14.9	31	25.768	EPA9065	NA	
ACI PBCs	49.99	ND	NA	NA	NA	NA	EPA 8082	NA	

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Created by: Ashley Barr 03-2014

WQ LEVEL LIMIT, mg/L, SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

REPORTING YEAR: January 1, 2012 to December 31, 2012

TREATMENT PLANT: Five Mile Permit #AR0020320

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, ug/l	EFFLUENT DATES SAMPLED					2012 Avg.	Laboratory Analysis		PASS/FAIL 35% SAFETY LIMIT
		Results, ug/L						EPA Method Used	Detection Level Achieved (ug/L)	
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr					
Antimony	NA	<20	<20	<20	<20	<20	200.7	60	NA	
Arsenic	2480	1.73	3.29	3.5	4.39	3.23	200.8	0.5	PASS	
Beryllium	NA	<0.5	<0.5	<0.5	<0.5	<0.5	200.8	0.5	NA	
Cadmium	35	<0.10	0.3	<0.10	<0.1	<0.15	200.8	0.5	PASS	
Chromium	7230	<1	<1	<1	<1	<1	200.7	10	PASS	
Copper	150	<0.5	9.27	12.1	4.6	<6.82	200.8	0.5	PASS	
Lead	120	<0.50	1.5	<0.50	<0.50	<0.75	200.8	0.5	PASS	
Mercury	0.3	0.009177	0.00851	0.0179	0.00372	0.0098	1631E	0.005	PASS	
Molybdenum	NA	<10	<10	<10	<10	<10	200.8	10	NA	
Nickel	5540	5	5.51	4	2.12	4.16	200.8	0.5	PASS	
Selenium	138	<5	<5	<5	<5	<5	200.7	5	PASS	
Silver	41	<0.10	4	<0.50	<0.50	<1.275	200.8	0.5	PASS	
Thallium	NA	<0.5	<0.5	<0.5	<0.5	<0.5	200.8	0.5	NA	
Zinc	970	30.100	27.52	<1.0	64.44	<30.77	200.7	20	PASS	
Cyanide	150	<10	<10	<10	<10	<10	SM 4500-CNE	10	PASS	
Phenols (Total)	NA	52	40	42	31	41.25	420.1	5	NA	

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WQ LEVEL LIMIT, mg/L, SAFETY LIMIT CHECK FOR ANNUAL PRETREATMENT REPORT

REPORTING YEAR: January 1, 2013 to December 31, 2013

TREATMENT PLANT: Five Mile Permit #AR0020320

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, ug/L	EFFLUENT DATES SAMPLED					2013 Avg.	Laboratory Analysis		PASS/FAIL 35% SAFETY LIMIT
		Results, ug/L						EPA Method Used	Detection Level Achieved (ug/L)	
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr					
Antimony	NA	<20	<20	25	<20	<21	200.7	60	NA	
Arsenic	2480	<0.50	5.82	7	<0.50	<3.46	200.8	0.5	PASS	
Beryllium	NA	<0.50	<0.50	<0.50	<0.50	<0.5	200.8	0.5	NA	
Cadmium	35	<0.10	<0.10	<0.10	4.1	<1.1	200.8	0.5	PASS	
Chromium	7230	<1	<1	<1	<1	<1	200.7	10	PASS	
Copper	150	5.6	6.30	5.5	<0.50	<4.48	200.8	0.5	PASS	
Lead	120	<0.50	<0.50	1.8	<0.50	<0.49	200.8	0.5	PASS	
Mercury	0.3	0.014	0.0467	0.0103	0.0101	0.0203	1631E	0.005	PASS	
Molybdenum	NA	<10	<10	11	<10	<10.25	200.8	10	NA	
Nickel	5540	3.36	5	6	<0.50	<3.72	200.8	0.5	PASS	
Selenium	138	<5	<5	<5	<5	<5	200.7	5	PASS	
Silver	41	<0.50	<0.50	2.26	1.8	<1.265	200.8	0.5	PASS	
Thallium	NA	<0.50	<0.50	<0.50	<0.50	<0.5	200.8	0.5	NA	
Zinc	970	21.1	28.9	<1.0	<1.0	<13	200.7	20	PASS	
Cyanide	150	<10	<10	<10	<10	<10	SM 4500-CNE	10	PASS	
Phenols (Total)	NA	60	57	61	<5	<45.75	420.1	5	NA	

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MONITORING RESULTS FOR THE ANNUAL PRETREATMENT PROGRAM

REPORTING YEAR: January 1, 2012 to December 31, 2012

TREATMENT PLANT: Five Mile Permit #AR0020320

Biosolids results

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, mg/L	Five Mile DATES SAMPLED Results, mg/kg					2012 Avg. of	Laboratory Analysis Method Used	PASS/FAIL 35% SAFETY LIMIT
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr				
Antimony	NA	<3.571	<5	<2.5	<5	<4.02	SW-846 6020A	NA	
Arsenic	75	11.857	<5	<2.5	<5	<6.09	SW-846 6020A	PASS	
Beryllium	NA	<3.571	<5	<2.5	<5	<4.02	SW-846 6020A	NA	
Cadmium	85	4.857	<5	3.37	<5	<4.557	SW-846 6020A	PASS	
Chromium	NA	<3.571	7	8.98	20	9.933	SW-846 6020A	PASS	
Copper	4300	39.429	335	188.6	310	218	SW-846 6020A	PASS	
Lead	840	33.714	20	18.8	30	25.63	SW-846 6020A	PASS	
Mercury	57	<0.7911	<1.04	<0.9345	<0.8921	<0.9144	SW-846 7471	PASS	
Molybdenum	75	<3.571	<5	<2.5	<5	<4.02	SW-846 6020A	NA	
Nickel	420	<3.571	<5	<2.5	20	<7.77	SW-846 6020A	PASS	
Selenium	100	7.429	7	6.23	<5	<6.41	SW-846 6020A	PASS	
Silver	NA	104	8	7	10	32	SW-846 6020A	PASS	
Thallium	NA	<3.571	<5	<2.5	<5	<4.02	SW-846 6020A	NA	
Zinc	7500	1257	847	712.12	1600	1104.066	SW-846 6020A	PASS	
Cyanide	NA	<1.0215	<1.1181	<1.8692	<0.8879	<1.224	EPA 9010	PASS	
PHENOLS (Total)	NA	18.07	17.45	15.5	13	16.063	EPA9065	NA	
ACI PBCs	49.99	ND	NA	NA	NA	NA	EPA 8082	NA	

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MONITORING RESULTS FOR THE ANNUAL PRETREATMENT PROGRAM

REPORTING YEAR: January 1, 2013 to December 31, 2013

TREATMENT PLANT: Five Mile Permit #AR0020320

Biosolids results

35 % LIMIT

METALS, CYANIDE and PHENOLS (Total)	WQ LEVEL LIMIT, mg/L	Five Mile DATES SAMPLED Results, mg/kg					2013Avg. c	Laboratory Ana Method Used	PASS/FAIL 35% SAFETY LIMIT
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr				
Antimony	NA	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	NA	
Arsenic	75	4.5	6.5	14.5	3	7.125	SW-846 6020A	PASS	
Beryllium	NA	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	NA	
Cadmium	85	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	PASS	
Chromium	NA	15	10	18.5	3.5	11.75	SW-846 6020A	PASS	
Copper	4300	389.5	358	341.5	209.5	325	SW-846 6020A	PASS	
Lead	840	29.5	82	40.5	13	41.25	SW-846 6020A	PASS	
Mercury	57	<1.2200	<0.9478	<0.8703	<0.0734	<0.778	SW-846 7471	PASS	
Molybdenum	75	3.5	13.5	17	<2.5	<9.13	SW-846 6020A	NA	
Nickel	420	15	20.5	26	8	17.38	SW-846 6020A	PASS	
Selenium	100	4	<2.5	10.5	<2.5	<4.88	SW-846 6020A	PASS	
Silver	NA	6	7	<2.5	<2.5	<4.5	SW-846 6020A	PASS	
Thallium	NA	<2.5	<2.5	<2.5	<2.5	<2.5	SW-846 6020A	NA	
Zinc	7500	1323	1231.5	1310	885	1187.375	SW-846 6020A	PASS	
Cyanide	NA	<1.2151	<0.9479	<0.8703	<0.7342	<0.942	EPA 9010	PASS	
PHENOLS (Total)	NA	28.19	15.98	21.6	12	19.375	EPA9065	NA	
ACI PBCs	49.99	ND	NA	NA	NA	NA	EPA 8082	NA	

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