



Alabama Department of Environmental Management
adem.alabama.gov

FEBRUARY 20, 2020 1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

MR JAMES VANCE
GENERAL MANAGER
MUSCLE SHOALS UTILITY BOARD
POST OFFICE BOX 2648
MUSCLE SHOALS AL 35661

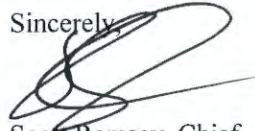
Re: REVISED DRAFT LOCAL LIMITS
MUSCLE SHOALS UTILITY BOARD
MUSCLE SHOALS WWTP
NPDES PERMIT NO. AL0024180

Dear Mr. Vance:

This letter is to provide notification that ADEM has revised the draft local limits document for the Muscle Shoals WWTP. A copy of this draft along with supporting information is attached for your review and comment. ADEM is requesting that your comments be received no later than 30 days from the date of this letter.

Following evaluation of any additional information provided, revised draft local limits will be developed if needed. If your facility has no further comments, ADEM will proceed with the development of final local limits based on the attached revised draft. After consideration of any comments received during the public notice period, a final determination on the local limits will be made. All permits issued to industrial users must comply with adopted local limits.

Should you have any questions about this process, please contact Theo Pinson by email at tpinson@adem.alabama.gov or by phone at (334) 274-4202.

Sincerely,


Scott Ramsey, Chief
Industrial Section
Industrial/Municipal Branch
Water Division

Attachments: Revised Draft Local Limits
Rationale for Local Limits
Local Limits/Pass Through Calculations

CC: CBC INGS America Inc
Nicholas Lowe, ADEM
Theo Pinson, ADEM



LOCAL LIMITS

PUBLICLY OWNED TREATMENT WORKS: MUSCLE SHOALS WWTP
LOCATION: MUSCLE SHOALS, ALABAMA
COLBERT COUNTY
PERMIT NUMBER: AL0024180

GENERAL PRETREATMENT PROHIBITIONS

No discharge to the Publicly Owned Treatment Works (POTW) shall exceed or otherwise violate the General Pretreatment Standards described in ADEM Administrative Code 335-6-5. Specifically the POTW shall ensure that discharges to their system comply with the following prohibitions to ensure protection of the treatment and collections systems and to ensure worker safety:

Pollutants which create a fire or explosion hazard including but not limited to waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit;

Pollutants which will cause corrosive structural damage to the treatment works but in no case discharges with a pH lower than 5.0 S.U. unless the treatment works are specifically designed to accommodate such discharges;

Solid or viscous pollutants in amounts which will cause obstruction to the flow in sewers or other interference with the operation of the treatment works;

Any pollutant, including oxygen demanding pollutants released in a discharge of such volume or strength as to cause interference in the treatment works;

Heat in amounts which will inhibit biological activity in the treatment plant resulting in interference, but in no case in such quantities that the temperature of the effluent at the treatment plant exceeds 104 degrees Fahrenheit unless the treatment plant is designed to accommodate such heat;

Pollutants which will result in the presence of toxic gases, vapors or fumes within the treatment works in a quantity that may cause acute worker health and safety problems;

Any trucked or hauled pollutants except at discharge points designated by the treatment works; and

Petroleum oil, nonbiodegradable cutting oil, or products of mineral origin in such amounts that will cause interference or pass through.

GENERAL PRETREATMENT STANDARDS AND LOCAL LIMITS

POLLUTANTS:

The total average daily loading of the substances from all sources shall not exceed the indicated mass listed below.

<u>Parameter</u>	<u>Allowable Average Daily Pollutant Load at Headworks of POTW</u> (lbs/day)
Arsenic, Trivalent	0.1738
Cadmium, Total Recoverable	0.6216
Chromium, Total Recoverable	166.8
Copper, Total Recoverable	24.50
Cyanide, Free	3.336
Lead, Total Recoverable	6.748
Mercury, Total Recoverable	0.0096
Nickel, Total Recoverable	4.900
Silver, Total Recoverable	1.750
Zinc, Total Recoverable	33.36

HYDRAULIC LOADING:

The hydraulic loading on an average basis is the design capacity of the treatment plant which is 4.0 million gallons per day.

ORGANIC LOADING:

The organic loading (CBOD₅) is the design capacity of the treatment plant which is 5571 pounds per day.

SOLIDS LOADING

The Total Suspended Solids loading (TSS) is the design capacity of the treatment plant which is 6672 pounds per day.

EFFECTIVE DATE:

ISSUANCE DATE:

DRAFT

Alabama Department of Environmental Management

Rationale for Local Limits

Muscle Shoals WWTP (AL0024180)
4.0 MGD Activated sludge
Muscle Shoals/Colbert County

Reissuance
Prepared Date: 1/25/2019
Prepared By: Ed Hughes
Revised Date: 5/9/2019 6/6/2019
2/18/2020

Nonconventional Pollutants:

Pass Through:

Allowable pollutant loadings were based on state water quality standards applicable to streams with a use designation of Agricultural & Industrial Water Supply. Local limits calculations were performed using a receiving stream 7Q10 of 0.0 cfs, 1Q10 of 0.0 cfs, an annual average flow of 49.6 cfs and a stream hardness of 106.8 mg/l as CaCO₃. The treatment plant removal rates and untreated domestic sewage pollutant concentrations were based on Best Professional Judgment using literature values and EPA recommended levels as the basis unless site specific data was available. Calculations estimate the allowable quantity of heavy metals (measured as Total Recoverable) and Free Cyanide that can be discharged into the POTW to ensure that state water quality standards for aquatic toxicity and human health criteria are met in the receiving stream during critical flow conditions. Because only the portion of heavy metals present in dissolved form is "bioavailable" to aquatic life, the calculations which evaluate aquatic toxicity take into account the relationship between "dissolved" metals and metals measured using the Total Recoverable test procedure.

Constellium is an alloys plant located upstream of the POTW's discharge. Occidental Chemicals is a former Chlor-alkali plant which is currently manufacturing Potassium Carbonate and Potassium Bicarbonate and is located a short distance downstream. Both of these discharges were taken into consideration in developing local limits for the Muscle Shoals plant. Based on data submitted by the industrial sites, Occidental discharges an average of 7.44 MGD (based on recent DMR data) and contributes a mercury loading of 0.00132 pounds per day, and Constellium discharges 2.74 MGD of wastewater (includes treated process water, sanitary wastewater and stormwater runoff) and has an average Arsenic loading of 0.206 pounds per day. According to their NPDES permit, Constellium is also limited to a discharge of 0.65 ppd of Lead, 0.85 ppd of Cyanide, 1.27 ppd of Chromium and 4.49 ppd of Zinc. According to Constellium's permit they are required to augment the flow in Pond Creek at four different levels depending on the season. The lowest required minimum level is 0.45 MGD. This value along with the above pollutant loadings were used in developing local limits for the Muscle Shoal treatment plant.

The allowable pollutant loadings based on pass through concerns are located in column 11 of the Local Limits-Pass Through (LL-PT) spreadsheet.

Interference:

The Department evaluated the potential for processes at the POTW to be inhibited as result of the pollutant loading entering the treatment works. Inhibition values were based on Best Professional Judgment using literature values and EPA recommended levels as the basis unless site specific information was provided

by the POTW. The allowable pollutant loadings based on inhibition concerns are located in column 13 of the LL-PT spreadsheet.

Sludge Disposal:

The POTW disposes of sludge using land application. According to the POTW's most recent NPDES permit application, 1624 pounds of sludge were generated and disposed daily based on an average wastewater flow of 1.325 MGD. This equates to 1.84 tons per day at the design flow of 4 MGD. This value was used in developing local limits for this site. For POTWs that use land application as a means of disposal the LL-PT spreadsheet calculates the allowable pollutant loading to ensure that metal concentrations in the sludge comply with EPA 503 regulations for land application of biosolids. The results of these calculations are located in column 14 of the spreadsheet.

Column 15 of the LL-PT spreadsheet indicates the most stringent of the above three criteria. These loadings are considered the POTW's total headworks capacity for the pollutants of concern.

The LL-PT spreadsheet also lists the current loading of the pollutants of concern from domestic/commercial and industrial sources and determines the remaining capacity currently available. Domestic/commercial loadings are indicated in Columns 16 and current industrial loadings are shown in column 17 (a listing of each significant industrial user and their permit limits and average reported discharge level for pollutants without permit limits is shown on the attached Significant Industrial Users sheet). Column 18 of that spreadsheet shows the remaining capacity after subtracting the current loadings. Negative values indicate that no additional capacity is available for these pollutants.

It should be noted that the available pollutant loadings shown in column 18 have been reduced by 10%, which is the percent of total capacity reserved for future growth.

Conventional Pollutants

Temperature:

The Department is not aware of any specific circumstances related to this POTW which require a temperature limitation more stringent than general standards and prohibitions contained in ADEM Administrative code 335-6-5-.03(2)(e).

pH:

The Department is not aware of any specific circumstances related to this POTW which require a minimum pH limitation more stringent than general standards and prohibitions contained in ADEM Administrative code 335-6-5-.03(2)(b).

Hydraulic loading:

The hydraulic loading is the design capacity of the treatment plant as indicated by the POTW, 4.0 MGD.

Organic loading:

The organic loading (CBOD₅) is the design capacity of the treatment plant. This loading was calculated using the design flow of the POTW and an influent CBOD₅ concentration of 167 mg/l.

Total Suspended Solids loading

The Total Suspended Solids (TSS) loading was calculated using the design flow of the POTW and an influent TSS concentration of 200 mg/l.

While ADEM develops local limits and reviews compliance, POTWs are responsible for ensuring proper management of Significant Industrial Users and other sources to meet their NPDES limits and to prevent pass through and interference problems and to ensure compliance with the prohibitions contained in ADEM Administrative Code 335-6-5-.03 for protection of the treatment works, collection system and worker safety. The POTWs' responsibilities include establishing any additional limitations via local ordinances, etc. to protect the POTW and comply with their permit.

Revision Date (5/9/2019):

The local limits spreadsheet was revised to correct the daily quantity of sludge disposed to 2.45 dry tons per day based on the POTW's most recent NPDES permit application. (Based on this information, the POTW generates 1624 pounds per day based on an average wastewater flow of 1.325 MGD. This equates to 2.45 dry tons per day at the plant design flow of 4.0 MGD).

Revision Date (6/6/2019):

The pollutant loadings from the industrial sources were re-evaluated in this revision. Because the concentrations of Mercury and Arsenic measured at DSN004 of Constellium's discharge, were measured before the addition of augmentation water, this volume of 2.74 MGD was used to determine the mass of these pollutants. Based on DMR data, the Mercury concentration was generally non-detect. The average Arsenic concentration of 0.009 mg/l equates to 0.206 ppd. The DSN 004 discharge also includes monthly average permit limits for Cyanide, Chromium, Lead and Zinc. These were added to the pollutant contribution from other sources in column 8 of the spreadsheet. Constellium also monitors for Mercury and Cyanide at outfall DSN 001; however, these results were typically below detection level. As discussed above, Occidental discharges 0.0132 ppd of Mercury based on DMR data.

The 0.206 ppd of Arsenic discharged by Constellium does not allow any additional allocation for the Muscle Shoals WWTP. To establish a headworks allowance, the assumed Arsenic concentration in domestic waste (0.001 mg/l) was used to calculate a headworks limit of .0334 ppd based on the WWTP design flow of 4.0 MGD.

In addition, a second spreadsheet was developed using the Tennessee River as the receiving stream to ensure that the more stringent Public Drinking Water stream classification would not further limit the allowable pollutant loading. Results revealed that the A & I stream classification based requirements were more limiting due to the much smaller stream flow in Pond Creek.

Last it should be noted that Pond Creek is currently listed on the ADEM 303(d) list of impaired streams. The impairment is for Arsenic, Mercury and Cyanide. Based on the local limit calculations, neither Mercury nor Cyanide is currently over allocated. Arsenic is over allocated based on these calculations.

Revision Date (2/18/2020):

In this revision more recent data was used to determine local limit requirements for the Muscle Shoals WWTP. Specifically, Constellium's DMR data for the 24 month period from January, 2018 through December, 2019 was utilized. Results revealed the average flow from outfall DSN004 to be 3.159 MGD and the Arsenic concentration to be .00084375 mg/l (calculated using one-half the MDL (0.00025 mg/l) for values reported as zero). Based on this flow and concentration, an average mass quantity of 0.0222 PPD was calculated. This value was input into the local limit spreadsheet as loadings allocated to other sources (column 8). Based on this more recent data, results show Arsenic is not currently over allocated at the POTW.

LOCAL LIMIT/ PASS THROUGH CALCULATIONS

POTW NAME: Muscle Shoals WWTP
 NPDES PERMIT NUMBER: AL0024180

DATE PREPARED: 1/25/2019
 PREPARED BY: Ed Hughes
 REVISED DATE: 5/9/2019 6/6/2019 2/19/2020

STREAM DATA AND POTW FLOW DATA									
RECEIVING STREAM CLASSIFICATION	=	A&I	2	RECEIVING STREAM TIDALLY INFLUENCED =	No				
POTW DESIGN FLOW	=		4 MGD						
FLDW FROM OTHER CONTRIBUTORS	=		10.56 MGD						
DOMESTIC FLOW	=		3.997 MGD						
7Q10	=		0 CFS	OR				0.00 MGD	
1Q10	=		0.00 CFS	OR				0.00 MGD	
7Q2	=		CFS	OR				0.00 MGD	
ANNUAL AVG FLOW	=		49.6 CFS	OR				32.04 MGD	
STREAM HARDNESS (DEFAULT VALUE 100)	=		106.8 MGL AS CaCO3						

ALLOWABLE LOADING TO STREAM BASED ON WATER QUALITY AND HH STANDARDS										
PARAMETER	1) CHRONIC	SW CHRONIC	2) MAX W Q	3) ACUTE	SW ACUTE	4) MAX W Q	5) HUMAN	6) MAX W Q	7) WQ / HH	PARAMETER
	TOXICITY	TOXICITY	INSTREAM	TOXICITY	TOXICITY	INSTREAM	HEALTH	INSTREAM	BASED DISC	
	(MG/L)	(MG/L)	(LBS/D)	(MG/L)	(MG/L)	(LBS/D)	(MG/L)	(LBS/D)	LEVEL (LBS/D)	
ANTIMONY, TOTAL RECOVERABLE	----	----	----	----	----	----	0.3733333	45.334	45.334	ANTIMONY, TR
ARSENIC, TRIVALENT	0.1500	----	31.733	0.3400	----	71.927	0.00030	0.118	0.118	ARSENIC, TRI
CADMIUM, TOT RECOVERABLE	0.0003	----	0.132	0.0021	----	1.105	----	----	1.105	CADMIUM, TR
CHROMIUM, TOT RECOVERABLE	0.0782	----	45.228	0.6013	----	347.698	----	----	347.698	CHROMIUM, TR
CHROMIUM, HEXAVALENT	0.0110	----	1.336	0.0160	----	1.943	----	----	1.943	CHROMIUM, HEX
COPPER, TOTAL RECOVERABLE	0.0095	----	2.965	0.0143	----	4.466	----	----	4.466	COPPER, TR
CYANIDE, FREE	0.0052	----	0.631	0.0220	----	2.671	9.3333	1133.35	2.671	CYANIDE, FREE
LEAD, TOT RECOVERABLE	0.0027	----	1.594	0.0694	----	40.892	----	----	40.892	LEAD, TR
MERCURY, TOT RECOVERABLE	0.000012	----	0.005	0.0024	----	0.965	0.0000424	0.005	0.00515	MERCURY, TR
MOLYBDENUM	----	----	----	----	----	----	----	----	----	MOLYBDENUM
NICKEL, TOT RECOVERABLE	0.0550	----	13.221	0.4950	----	119.034	0.9929078	120.569	119.034	NICKEL, TR
SELENIUM, TOTAL RECOVERABLE	0.0005	----	0.061	0.0020	----	0.243	2.4305555	295.143	0.243	SELENIUM, TR
SILVER, TOT RECOVERABLE	----	----	----	0.0036	----	0.437	----	----	0.437	SILVER, TR
ZINC, TOT RECOVERABLE	0.1249	----	45.964	0.1239	----	45.591	14.8936170	1808.54	45.591	ZINC, TR

		Antimony	Arsenic	Cadmium	Chromium, Tot	Chromium, VI	Copper	Cyanide	Lead	Mercury	Molybdenum	Nickel	
DOMESTIC	DATA VALUE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	LIT VALUE	0.0010	0.0010	0.0030	0.0500	0.0000	0.0600	0.0400	0.0500	0.0000	0.0000	0.0200	
		Selenium	Silver	Zinc									
	DATA VALUE	0.0000	0.0000	0.0000									
	LIT VALUE	0.0000	0.0100	0.1800									

TYPE OF TREATMENT =	2	Act Sludge	SLUDGE DISPOSAL	
TREATMENT INCLUDE NITIFICATION?	No		DOES THE POTW HAVE SECONDARY CLARIFICATION?	Yes
			AVERAGE TONS OF SLUDGE PER DAY (DRY WEIGHT)	2.45
			IS SLUDGE LAND APPLIED?	Yes
			GROWTH ALLOCATION	
			% ALLOCATION RESERVED FOR FUTURE GROWTH =	10

PARAMETER	7) MAX WQ INSTREAM (LBS/D)	8) ALLOCATION FROM BACKGROUND (LBS/D)	9) ALLOWABLE DISC FROM POTW (LBS/D)	10) REMOVAL RATE (%)	11) ALLOWABLE DISCHARGE (WQ / HH) (LBS/D)	12) INHIBITION TRESHOLD CONC (MG/L)	13) ALLOWABLE DISCHARGE (INHIBITION) (LBS/D)	14) ALLOWABLE DISCHARGE (SLUDGE) (LBS/D)	15) ALLOWABLE DISCHARGE LOCAL LIMIT (LBS/D)	16) DOMESTIC INFLUENT LOADING (LBS/D)	17) INDUSTRIAL INFLUENT LOADING (LBS/D)	18) AVAILABLE CAPACITY FOR GROWTH (LBS/D)	LIMITING FACTOR
ANTIMONY, TOT RECOVERABLE	45.3340	0	45.3340	0	45.3340				45.3340	0.0333	0.0000	40.7706	WATER QUALITY
ARSENIC, TRIVALENT	0.1178	0.0222	0.0956	45	0.1738	0.100	3.3360	0.816666667	0.1738	0.0333	0.0000	0.1264	WATER QUALITY
CADMIUM, TOT RECOVERABLE	1.1046	0	1.1046	67	3.3472	1.000	33.3600	0.621641791	0.6216	0.1000	0.0018	0.4679	SLUDGE
CHROMIUM, TOT RECOVERABLE	347.6983	1.27	346.4283	82	1924.6018	5.000	166.8000	-----	166.8000	1.6667	0.0428	148.5814	INHIBITION
CHROMIUM, HEXVALENT	1.9429	0	1.9429	83	11.4287	1.000	33.3600	-----	11.4287	0.0000	0.0025	10.2836	WATER QUALITY
COPPER, TOTAL RECOVERABLE	4.4660	0	4.4660	86	31.8999	1.000	33.3600	24.5	24.5000	2.0001	0.0250	20.2274	SLUDGE
CYANIDE, FREE	2.6715	0.85	1.8215	69	5.8757	0.100	3.3360	-----	3.3360	1.3334	0.0013	1.8012	INHIBITION
LEAD, TOT RECOVERABLE	40.8925	0.65	40.2425	61	103.1858	1.000	33.3600	6.747540984	6.7475	1.6667	0.0025	4.5705	SLUDGE
MERCURY, TOT RECOVERABLE	0.0052	0.00132	0.0038	60	0.0096	0.100	3.3360	0.4655	0.0096	0.0000	0.0000	0.0086	WATER QUALITY
MOLYBDENUM		0						0.3675	0.3675	0.0000	0.0000	-----	SLUDGE
NICKEL, TOT RECOVERABLE	119.0342	0	119.0342	42	205.2315	1.000	33.3600	4.9	4.9000	0.6667	0.0125	3.7987	SLUDGE
SELENIUM	0.2429	0	0.2429	50	0.4857			0.98	0.4857	0.0000	0.0000	0.4371	WATER QUALITY
SILVER, TOT RECOVERABLE	0.4374	0	0.4374	75	1.7496	0.250	8.3400	-----	1.7496	0.3333	0.0060	1.2693	WATER QUALITY
ZINC, TOT RECOVERABLE	45.5508	4.49	41.1008	79	195.7180	1.000	33.3600	46.51898734	33.3600	6.0003	0.0370	24.5904	INHIBITION

Comments

Item 1: Allowable concentration instream based on above noted stream conditions and state standard to protect aquatic life from chronic toxicity.

Item 2: Mass of pollutant allowed instream based on above noted stream conditions and chronic criteria calculated as shown below:

Item 2 = stream 7Q10 x 8.34 x Item 1. If stream segment is tidally influenced, the more stringent of freshwater and saltwater criteria is used.

Item 3: Allowable concentration instream based above noted stream conditions and state standard to protect aquatic life from acute toxicity.

Item 4: Mass of pollutant allowed instream based on above noted stream conditions and acute criteria and calculated as shown below:

Item 4 = stream 1Q10 x 8.34 x Item 3. For LWF streams, Item 4 = stream 7Q2 x 8.34 x Item 3.

If stream segment is tidally influenced, the more stringent of freshwater and saltwater criteria is used.

Item 5: Allowable concentration instream based on above noted stream conditions and state human health standard for a stream with this use classification.

Item 6: Mass of pollutant allowed instream based on above noted stream condition, the human health standard and calculated as shown below:

Item 6 = Annual average stream flow x 8.34 x Item 5 (for carcinogens) and 7Q10 x 8.34 x Item 5 (for non-carcinogens).

Item 7: The most stringent of the requirements calculated in Items 2,4 and 6.

Item 8: Amount allocated to other facilities discharging to this stream segment.

Item 9: Remaining allocation available.

Item 10: Pollutant removal rates based on the treatment process.

Item 11: The calculated allowable discharge into the POTW based on water quality and human health concerns.

Item 12: Concentration of pollutant that could cause inhibition of biological processes utilized at the treatment plant.

Item 13: Allowable discharge into the POTW based on levels to prevent inhibition of biological treatment processes.

Item 14: Allowable discharge into the POTW based on levels to meet EPA 503 standards for land application of sludge, if sludge is land applied.

Item 15: Allowable discharge into the POTW based on the more stringent of Items 11, Item 13 and item 14 requirements. This column contains the Local Limits for this POTW.

Item 16: Domestic influent (lbs/d) based on domestic flow and sampled domestic influent data if available or literature values if not.

Item 17: Industrial influent (lbs/d) based on monthly average permit limits and actual average values for the past 2 to 5 years (depending on availability) for "monitor only" pollutants as shown on SIUs sheet. Values reported as less than detect are not included in average calculation.

Item 18: Available capacity remaining for new sources after subtracting capacity being utilized by industrial sources, domestic sources (including commercial sources and septage disposal) and capacity reserved for future growth.

SIGNIFICANT INDUSTRIAL USERS

PERMITTEE	AVG FLOW (MGD)	DAILY AVG ANTIMONY (MG/L)	DAILY AVG ARSENIC (MG/L)	DAILY AVG CADMIUM (MG/L)	DAILY AVG CHROMIUM (MG/L)	DAILY AVG HEX CHROM (MG/L)	DAILY AVG COPPER (MG/L)	DAILY AVG CYANIDE (MG/L)	DAILY AVG LEAD (MG/L)	DAILY AVG MERCURY (MG/L)	DAILY AVG Molybdenum (mg/l)	DAILY AVG NICKEL (MG/L)	DAILY AVG SELENIUM (MG/L)	DAILY AVG SILVER (MG/L)	DAILY AVG ZINC (MG/L)
CBC INGS America (IU081700420)	0.0030	0.0000	0.0000	0.0700	1.7100	0.1000	1.0000	0.0500	0.1000	0.0000	0.0000	0.5000	0.0000	0.2400	1.4800
Total Industrial flow	0.0030														

Monthly average permit limits are listed in bold print.

Other values are based on a minimum of 24 months of data if available as reported on DMRs (for parameters with testing requirements in permits).

PERMITTEE	AVG FLOW (MGD)	DAILY AVG ANTIMONY (LBS/D)	DAILY AVG ARSENIC (LBS/D)	DAILY AVG CADMIUM (LBS/D)	DAILY AVG CHROMIUM (LBS/D)	DAILY AVG HEX CHROM (LBS/D)	DAILY AVG COPPER (LBS/D)	DAILY AVG CYANIDE (LBS/D)	DAILY AVG LEAD (LBS/D)	DAILY AVG MERCURY (LBS/D)	DAILY AVG Molybdenum (LBS/D)	DAILY AVG NICKEL (LBS/D)	DAILY AVG SELENIUM (LBS/D)	DAILY AVG SILVER (LBS/D)	DAILY AVG ZINC (LBS/D)
CBC INGS America (IU081700420)	0.003	0.0000	0.0000	0.0018	0.0428	0.0025	0.0250	0.0013	0.0025	0.0000	0.0000	0.0125	0.0000	0.0060	0.0370
	0.0030	0.0000	0.0000	0.0018	0.0428	0.0025	0.0250	0.0013	0.0025	0.0000	0.0000	0.0125	0.0000	0.0060	0.0370

CURRENT PERMITTED INDUSTRIAL LOADING TO POTW (LBS/DAY)

PARAMETER	
ANTIMONY	0.0000
ARSENIC	0.0000
CADMIUM	0.0018
CHROMIUM	0.0428
HEX CHROM	0.0025
COPPER	0.0250
CYANIDE	0.0013
LEAD	0.0025
MERCURY	0.0000
Molybdenum	0.0000
NICKEL	0.0125
SELENIUM	0.0000
SILVER	0.0060
ZINC	0.0370