ICIS Facility Report

NPDES ID	KY0003531
FRS Facility Site ID	2600281745
Permit Name	CC Metals & Alloys Inc
City	CALVERT CITY

Permit Type Desc	NPDES Individual Permit
Curr. Major Minor Status	Minor
Permit Status Desc	Admin Continued
Issuing Agency Type Desc	State

Issue Date	7/9/14
Effective Date	9/1/14
Expiration Date	8/31/19

Latitude in Decimal Degrees	37.056111
Longitude in Decimal Degrees	-88.348056
Horizontal Accuracy Measure	30
Geometric Type Desc	

Horizontal Collect Method Desc	Interpolation-Oth
Horizontal Reference Datum Desc	NAD83
Source Map Scale Number	24,000
Reference Point Desc	Facility Center/C

Total App. Design Flow (MGD)	0.51
Total Actual Average Flow (MGD)	
State Water Body	060400060001
State Water Body Name	TENNESSEE RIVE

Location Address	1542 N MAIN ST
Supplemental Address	
City	CALVERT CITY
State Code	KY
Zip	42029

DMR Cognizant Official	Jeremy Witten
DMR Cognizant Offcl Telephone	270-395-7631
Primary Permit SIC Desc	Electrometallurgical Products

Component Type Desc

Inspections in Last 5 Years

Actual End Date	Compliance Monitoring Type Desc	Agency Type Desc
2/22/07	Evaluation	State
4/17/13	Evaluation	State
1/4/17	Evaluation	State
10/24/17	Evaluation	State

ICIS Facility Report

Enforcement in Last 5 Years

Issued By	EA Type Desc	Final Order Issued Date	Informal Achieved Date
State	Letter of Violation/ Warning Letter		4/25/11
State	Notice of Violation		3/11/15
State	Notice of Violation		9/23/16

DMR Summary

Permit KY0003531

Permit Name	Version Nmbr	Curr. Major Minor Status	Issue Date	Effective Date	Expiration Date
CC Metals & Alloys Inc	0	Minor	7/9/14	9/1/14	8/31/19

Version # 0

Outfall 0011

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	MINIMUM	MAXIMUM
Limit Value	6	9
DMR Values		
1/31/15	7.8	7.8
2/28/15	7.4	7.4
3/31/15	8.1	8.1
4/30/15	8.1	8.1
5/31/15	7.9	7.9
6/30/15	7.8	7.8
7/31/15	7.3	7.3
8/31/15	7.1	7.1
9/30/15	7.6	7.6
10/31/15	8.1	8.1
11/30/15	8.4	8.4
12/31/15	8.4	8.4
1/31/16	NODI=7	NODI=7
2/29/16	7.5	7.5
3/31/16	7.9	7.9
4/30/16	8.7	8.7
5/31/16	8.6	8.6
6/30/16	7.8	7.8
7/31/16	7.9	7.9
8/31/16	7.9	7.9
9/30/16	8.6	8.6
10/31/16	8	8
11/30/16	7.7	7.7
12/31/16	8.1	8.1
1/31/17	8.6	8.6
2/28/17	7.9	7.9
3/31/17	7.9	7.9
4/30/17	7.5	7.5
5/31/17	7.5	7.5
6/30/17	7.5	7.5
7/31/17	7.7	7.7
8/31/17	7.7	7.7
9/30/17	7.2	7.2
10/31/17	7.7	7.7
11/30/17	8.2	8.2
12/31/17	7.9	7.9
1/31/18	7.9	7.9
2/28/18	7.6	7.6
3/31/18	7.61	7.61

DMR Summary

Permit KY0003531

Version # 0

Outfall 0011

00400 pH / Location 1 / Season 0 / Base

DMR Values		
4/30/18	7.31	7.31
5/31/18	7.52	7.52
6/30/18	8.16	8.16
7/31/18	8.18	8.18
8/31/18	8.09	8.09
9/30/18	7.25	7.25
10/31/18	8.11	8.11
11/30/18	7.91	7.91
12/31/18	7.91	7.91
1/31/19	7.51	7.51
2/28/19	8.38	8.38
3/31/19	8.42	8.42
4/30/19	7.59	7.59
5/31/19	7.97	7.97
6/30/19	7.71	7.71
7/31/19	6.77	6.77
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	30	60
DMR Values		
1/31/15	5	5
2/28/15	5	5
3/31/15	5	5
4/30/15	6	6
5/31/15	6	6
6/30/15	5	5
7/31/15	6	6
8/31/15	5	5
9/30/15	5	5
10/31/15	5	5
11/30/15	5	5
12/31/15	5	5
1/31/16	NODI=7	NODI=7
2/29/16	6	6
3/31/16	6	6
4/30/16	5	5
5/31/16	5	5
6/30/16	5	5
7/31/16	5	5

DMR Summary

Permit KY0003531

Version # 0

Outfall 0011

00530 Solids, total suspended / Location 1 / Season 0 / Base

DMR Values		
8/31/16	5	5
9/30/16	5	5
10/31/16	6	6
11/30/16	5	5
12/31/16	5	5
1/31/17	5	5
2/28/17	5	5
3/31/17	5	5
4/30/17	5	5
5/31/17	5	5
6/30/17	5	5
7/31/17	5	5
8/31/17	9	9
9/30/17	5	5
10/31/17	5	5
11/30/17	6	6
12/31/17	8	8
1/31/18	5	5
2/28/18	5	5
3/31/18	5	5
4/30/18	5	5
5/31/18	5	5
6/30/18	5	5
7/31/18	5	5
8/31/18	5	5
9/30/18	3	3
10/31/18	5	5
11/30/18	5	5
12/31/18	5	5
1/31/19	5	5
2/28/19	5	5
3/31/19	5	5
4/30/19	17	17
5/31/19	15	15
6/30/19	5	5
7/31/19	12	12
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

00556 Oil & Grease / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	10	15

Permit KY0003531

Version # 0

Outfall 0011

00556 Oil & Grease / Location 1 / Season 0 / Base

DMR Values		
1/31/15	5	5
2/28/15	5	5
3/31/15	5.9	5.9
4/30/15	5.3	5.3
5/31/15	5.4	5.4
6/30/15	5.6	5.6
7/31/15	5.3	5.3
8/31/15	5.3	5.3
9/30/15	5.3	5.3
10/31/15	5.7	5.7
11/30/15	5.6	5.6
12/31/15	5.6	5.6
1/31/16	NODI=7	NODI=7
2/29/16	5.8	5.8
3/31/16	5.6	5.6
4/30/16	5.8	5.8
5/31/16	5.9	5.9
6/30/16	5.4	5.4
7/31/16	5.7	5.7
8/31/16	6	6
9/30/16	6	6
10/31/16	5.9	5.9
11/30/16	6	6
12/31/16	5.8	5.8
1/31/17	5.3	5.3
2/28/17	5.7	5.7
3/31/17	6.2	6.2
4/30/17	5.5	5.5
5/31/17	5.6	5.6
6/30/17	5.5	5.5
7/31/17	5.8	5.8
8/31/17	5	5
9/30/17	5	5
10/31/17	5.6	5.6
11/30/17	5.2	5.2
12/31/17	5.9	5.9
1/31/18	6	6
2/28/18	5.3	5.3
3/31/18	6.3	6.3
4/30/18	6.3	6.3
5/31/18	6.1	6.1
6/30/18	5.8	5.8
7/31/18	5.7	5.7
8/31/18	6	6
9/30/18	6	6
10/31/18	5.7	5.7
11/30/18	5.6	5.6
12/31/18	5.6	5.6
1/31/19	6	6
2/28/19	5	5
3/31/19	5	5
4/30/19	5	5

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Outfall 0011

00556 Oil & Grease / Location 1 / Season 0 / Base

DMR Values		
5/31/19	5	5
6/30/19	5	5
7/31/19	5	5
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

00900 Hardness, total [as CaCO3] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/15	116
2/28/15	106
3/31/15	97.9
4/30/15	96.5
5/31/15	83.6
6/30/15	95.3
7/31/15	107
8/31/15	129
9/30/15	87.9
10/31/15	119
11/30/15	79.4
12/31/15	101
1/31/16	NODI=7
2/29/16	88.1
3/31/16	132
4/30/16	65.9
5/31/16	96.7
6/30/16	97.2
7/31/16	83.3
8/31/16	77.1
9/30/16	158
10/31/16	99.5
11/30/16	102
12/31/16	110
1/31/17	85.2
2/28/17	74.5
3/31/17	72.2
4/30/17	84
5/31/17	105
6/30/17	185
7/31/17	202
8/31/17	88.4

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00900 Hardness, total [as CaCO3] / Location 1 / Season 0 / Base

DMR Values	
9/30/17	96.7
10/31/17	140
11/30/17	109
12/31/17	196
1/31/18	199
2/28/18	203
3/31/18	193
4/30/18	97.2
5/31/18	200
6/30/18	200
7/31/18	190
8/31/18	160
9/30/18	198
10/31/18	201
11/30/18	108
12/31/18	108
1/31/19	205
2/28/19	112
3/31/19	112
4/30/19	104
5/31/19	227
6/30/19	122
7/31/19	167
8/31/19	
9/30/19	
10/31/19	
11/30/19	
12/31/19	

01051 Lead, total [as Pb] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value		
DMR Values		
1/31/15	.000081	.000081
2/28/15	.00017	.00017
3/31/15	.005	.005
4/30/15	.001	.001
5/31/15	.005	.005
6/30/15	.005	.005
7/31/15	.005	.005
8/31/15	.001	.001
9/30/15	.001	.001
10/31/15	.005	.005
11/30/15	.005	.005
12/31/15	.001	.001

Permit KY0003531

Version # 0

Outfall 0011

01051 Lead, total [as Pb] / Location 1 / Season 0 / Base

DMR Values		
1/31/16	NODI=7	NODI=7
2/29/16	.001	.001
3/31/16	.001	.001
4/30/16	.005	.005
5/31/16	.001	.001
6/30/16	.005	.005
7/31/16	.005	.005
8/31/16	.0002	.0002
9/30/16	.005	.005
10/31/16	.005	.005
11/30/16	.0002	.0002
12/31/16	.005	.005
1/31/17	.005	.005
2/28/17	.005	.005
3/31/17	.005	.005
4/30/17	.005	.005
5/31/17	.005	.005
6/30/17	.005	.005
7/31/17	.005	.005
8/31/17	.005	.005
9/30/17	.005	.005
10/31/17	.001	.001
11/30/17	.001	.001
12/31/17	.001	.001
1/31/18	.0044	.0044
2/28/18	.0032	.0032
3/31/18	.0036	.0036
4/30/18	.001	.001
5/31/18	.0083	.0083
6/30/18	.0018	.0018
7/31/18	.0022	.0022
8/31/18	.019	.019
9/30/18	.0037	.0037
10/31/18	.0031	.0031
11/30/18	.0031	.0031
12/31/18	.0031	.0031
1/31/19	.0062	.0062
2/28/19	.0062	.0062
3/31/19	.0062	.0062
4/30/19	.0062	.0062
5/31/19	.0062	.0062
6/30/19	.0062	.0062
7/31/19	.0062	.0062
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

01092 Zinc, total [as Zn] / Location 1 / Season 0 / Base

Permit KY0003531

Version # 0

Outfall 0011

01092 Zinc, total [as Zn] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value		
DMR Values		
1/31/15	.009	.009
2/28/15	.0094	.0094
3/31/15	.02	.02
4/30/15	.015	.015
5/31/15	.021	.021
6/30/15	.02	.02
7/31/15	1.5	1.5
8/31/15	.0066	.0066
9/30/15	.0024	.0024
10/31/15	.001	.001
11/30/15	.01	.01
12/31/15	.01	.01
1/31/16	NODI=7	NODI=7
2/29/16	.0083	.0083
3/31/16	.015	.015
4/30/16	.02	.02
5/31/16	.0041	.0041
6/30/16	.01	.01
7/31/16	.011	.011
8/31/16	.0051	.0051
9/30/16	.01	.01
10/31/16	.01	.01
11/30/16	.0059	.0059
12/31/16	.01	.01
1/31/17	.01	.01
2/28/17	.01	.01
3/31/17	.01	.01
4/30/17	.01	.01
5/31/17	.018	.018
6/30/17	.01	.01
7/31/17	.014	.014
8/31/17	.016	.016
9/30/17	.013	.013
10/31/17	.0089	.0089
11/30/17	.019	.019
12/31/17	.0085	.0085
1/31/18	.067	.067
2/28/18	.018	.018
3/31/18	.014	.014
4/30/18	.013	.013
5/31/18	.014	.014
6/30/18	.011	.011
7/31/18	.016	.016
8/31/18	.031	.031
9/30/18	.055	.055

Permit KY0003531

Version # 0

Outfall 0011

01092 Zinc, total [as Zn] / Location 1 / Season 0 / Base

DMR Values		
10/31/18	.11	.11
11/30/18	.11	.11
12/31/18	.11	.11
1/31/19	.022	.022
2/28/19	.22	.22
3/31/19	.22	.22
4/30/19	.22	.22
5/31/19	.22	.22
6/30/19	.22	.22
7/31/19	.22	.22
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

50050 Flow, in conduit or thru treatment plant / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Instantaneous	Monthly

Limit		
Limit Unit Desc	Million Gallons per	Million Gallons per
Statistical Base	MO AVG	MX WK AV
Limit Value		
DMR Values		
1/31/15	.018	.018
2/28/15	.018	.018
3/31/15	.018	.018
4/30/15	.018	.018
5/31/15	.018	.018
6/30/15	.018	.018
7/31/15	.018	.018
8/31/15	.018	.018
9/30/15	.018	.018
10/31/15	.018	.018
11/30/15	.018	.018
12/31/15	.018	.018
1/31/16	NODI=7	NODI=7
2/29/16	.018	.018
3/31/16	.018	.018
4/30/16	.018	.018
5/31/16	.018	.018
6/30/16	.018	.018
7/31/16	.018	.018
8/31/16	.018	.018
9/30/16	.018	.018
10/31/16	.018	.018
11/30/16	.018	.018
12/31/16	.018	.018
1/31/17	.045	.045

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Version # 0

Outfall 0011

50050 Flow, in conduit or thru treatment plant / Location 1 / Season 0 / Base

DMR Values		
2/28/17	.018	.018
3/31/17	.018	.018
4/30/17	.018	.018
5/31/17	.018	.018
6/30/17	.018	.018
7/31/17	.018	.018
8/31/17	.018	.018
9/30/17	.018	.018
10/31/17	.018	.018
11/30/17	.018	.018
12/31/17	.018	.018
1/31/18	.018	.018
2/28/18	.018	.018
3/31/18	.018	.018
4/30/18	.018	.018
5/31/18	.018	.018
6/30/18	.018	.018
7/31/18	.018	.018
8/31/18	.018	.018
9/30/18	.018	.018
10/31/18	.018	.018
11/30/18	.018	.018
12/31/18	.018	.018
1/31/19	.018	.018
2/28/19	.018	.018
3/31/19	.018	.018
4/30/19	.018	.018
5/31/19	.018	.018
6/30/19	.018	.018
7/31/19	.018	.018
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

Outfall 0021

00310 BOD, 5-day, 20 deg. C / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	30DA AVG	DAILY MX
Limit Value	30	45
DMR Values		
1/31/15	17	17
2/28/15	17	17
3/31/15	16	16
4/30/15	6.8	6.8

DMR Summary

Permit KY0003531

Version # 0

Outfall 0021

00310 BOD, 5-day, 20 deg. C / Location 1 / Season 0 / Base

DMR Values		
5/31/15	5	5
6/30/15	5.4	5.4
7/31/15	5	5
8/31/15	5	5
9/30/15	10	10
10/31/15	6	6
11/30/15	5	5
12/31/15	5	5
1/31/16	18	18
2/29/16	11	11
3/31/16	5	5
4/30/16	5	5
5/31/16	5	5
6/30/16	5	5
7/31/16	5	5
8/31/16	5	5
9/30/16	5	5
10/31/16	5	5
11/30/16	5	5
12/31/16	5	5
1/31/17	5	5
2/28/17	5	5
3/31/17	5	5
4/30/17	5	5
5/31/17	5	5
6/30/17	5	5
7/31/17	5	5
8/31/17	5	5
9/30/17	5	5
10/31/17	5	5
11/30/17	5	5
12/31/17	5	5
1/31/18	5	5
2/28/18	5	5
3/31/18	5	5
4/30/18	5	5
5/31/18	5	5
6/30/18	5	5
7/31/18	5	5
8/31/18	5	5
9/30/18	5	5
10/31/18	5	5
11/30/18	5	5
12/31/18	5	5
1/31/19	5	5
2/28/19	5	5
3/31/19	5	5
4/30/19	5	5
5/31/19	5	5
6/30/19	5	5
7/31/19	5	5
8/31/19		

Permit KY0003531

Version # 0

Outfall 0021

00310 BOD, 5-day, 20 deg. C / Location 1 / Season 0 / Base

DMR Values		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	MINIMUM	MAXIMUM
Limit Value	6	9
DMR Values		
1/31/15	7.7	7.7
2/28/15	7.8	7.8
3/31/15	7.5	7.5
4/30/15	7.7	7.7
5/31/15	7.4	7.4
6/30/15	7.2	7.2
7/31/15	7.3	7.3
8/31/15	7.4	7.4
9/30/15	7.5	7.5
10/31/15	7.5	7.5
11/30/15	7.7	7.7
12/31/15	7.5	7.5
1/31/16	8	8
2/29/16	7.9	7.9
3/31/16	7.4	7.4
4/30/16	7.7	7.7
5/31/16	8	8
6/30/16	7.5	7.5
7/31/16	7.5	7.5
8/31/16	7.7	7.7
9/30/16	7.7	7.7
10/31/16	7.2	7.2
11/30/16	7.3	7.3
12/31/16	7.3	7.3
1/31/17	7.5	7.5
2/28/17	7.3	7.3
3/31/17	7.2	7.2
4/30/17	7.1	7.1
5/31/17	7.2	7.2
6/30/17	7.1	7.1
7/31/17	7.1	7.1
8/31/17	7.2	7.2
9/30/17	7.1	7.1
10/31/17	7.1	7.1
11/30/17	7.6	7.6
12/31/17	7.5	7.5

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00400 pH / Location 1 / Season 0 / Base

DMR Values		
1/31/18	7.5	7.5
2/28/18	7.2	7.2
3/31/18	7.27	7.27
4/30/18	7.06	7.06
5/31/18	7.38	7.38
6/30/18	7.57	7.57
7/31/18	7.39	7.39
8/31/18	7.64	7.64
9/30/18	7.35	7.35
10/31/18	7.71	7.71
11/30/18	7.69	7.69
12/31/18	7.69	7.69
1/31/19	7.17	7.17
2/28/19	7.41	7.41
3/31/19	7.55	7.55
4/30/19	7.15	7.15
5/31/19	7.46	7.46
6/30/19	7.28	7.28
7/31/19	7.66	7.66
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	30	45
DMR Values		
1/31/15	5	5
2/28/15	17	17
3/31/15	9	9
4/30/15	6	6
5/31/15	5	5
6/30/15	5	5
7/31/15	5	5
8/31/15	5	5
9/30/15	8	8
10/31/15	5	5
11/30/15	5	5
12/31/15	5	5
1/31/16	25	25
2/29/16	18	18
3/31/16	5	5
4/30/16	5	5

DMR Summary

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Outfall 0021

00530 Solids, total suspended / Location 1 / Season 0 / Base

DMR Values		
5/31/16	5	5
6/30/16	5	5
7/31/16	5	5
8/31/16	5	5
9/30/16	5	5
10/31/16	5	5
11/30/16	5	5
12/31/16	5	5
1/31/17	5	5
2/28/17	5	5
3/31/17	5	5
4/30/17	5	5
5/31/17	5	5
6/30/17	5	5
7/31/17	5	5
8/31/17	5	5
9/30/17	5	5
10/31/17	5	5
11/30/17	5	5
12/31/17	5	5
1/31/18	5	5
2/28/18	5	5
3/31/18	5	5
4/30/18	5	5
5/31/18	6	6
6/30/18	5	5
7/31/18	5	5
8/31/18	5	5
9/30/18	3	3
10/31/18	5	5
11/30/18	5	5
12/31/18	5	5
1/31/19	5	5
2/28/19	5	5
3/31/19	10	10
4/30/19	14	14
5/31/19	13	13
6/30/19	5	5
7/31/19	5	5
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

50050 Flow, in conduit or thru treatment plant / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Instantaneous	Monthly

DMR Summary

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Version # 0

Outfall 0021

50050 Flow, in conduit or thru treatment plant / Location 1 / Season 0 / Base

Limit		
Limit Unit Desc	Million Gallons per	Million Gallons per
Statistical Base	MO AVG	MX WK AV
Limit Value		
DMR Values		
1/31/15	.02	.02
2/28/15	.02	.02
3/31/15	.02	.02
4/30/15	.02	.02
5/31/15	.02	.02
6/30/15	.02	.02
7/31/15	.02	.02
8/31/15	.02	.02
9/30/15	.02	.02
10/31/15	.02	.02
11/30/15	.02	.02
12/31/15	.02	.02
1/31/16	.02	.02
2/29/16	.02	.02
3/31/16	.02	.02
4/30/16	.02	.02
5/31/16	.02	.02
6/30/16	.02	.02
7/31/16	.02	.02
8/31/16	.02	.02
9/30/16	.02	.02
10/31/16	.02	.02
11/30/16	.02	.02
12/31/16	.02	.02
1/31/17	.02	.02
2/28/17	.02	.02
3/31/17	.02	.02
4/30/17	.02	.02
5/31/17	.02	.02
6/30/17	.02	.02
7/31/17	.02	.02
8/31/17	.02	.02
9/30/17	.02	.02
10/31/17	.02	.02
11/30/17	.02	.02
12/31/17	.02	.02
1/31/18	.02	.02
2/28/18	.02	.02
3/31/18	.02	.02
4/30/18	.02	.02
5/31/18	.02	.02
6/30/18	.02	.02
7/31/18	.02	.02
8/31/18	.02	.02
9/30/18	.02	.02
10/31/18	.02	.02
11/30/18	.02	.02
12/31/18	.02	.02

DMR Summary

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Outfall 0021

50050 Flow, in conduit or thru treatment plant / Location 1 / Season 0 / Base

DMR Values		
1/31/19	.02	.02
2/28/19	.02	.02
3/31/19	.02	.02
4/30/19	.02	.02
5/31/19	.02	.02
6/30/19	.02	.02
7/31/19	.02	.02
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

51040 E. coli / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Number per 100 Mil	Number per 100 Mil
Statistical Base	30DA GEO	7 DA GEO
Limit Value	130	240
DMR Values		
1/31/15	5.1	5.1
2/28/15	4.1	4.1
3/31/15	33.1	33.1
4/30/15	3.1	3.1
5/31/15	13.2	13.2
6/30/15	178.5	178.5
6/30/15	94.1	94.1
7/31/15	29.2	29.2
8/31/15	4.1	4.1
9/30/15	8.5	8.5
10/31/15	4.1	4.1
11/30/15	21.3	21.3
12/31/15	19.95	19.95
1/31/16	387.3	387.3
2/29/16	5.2	5.2
3/31/16	1	1
4/30/16	1	1
5/31/16	1	1
6/30/16	1	1
7/31/16	1	1
8/31/16	1	1
9/30/16	1	1
10/31/16	1	1
11/30/16	1	1
12/31/16	1	1
1/31/17	1	1
2/28/17	1	1
3/31/17	1	1

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Outfall 0021

51040 E. coli / Location 1 / Season 0 / Base

DMR Values		
4/30/17	1	1
5/31/17	1	1
6/30/17	1	1
7/31/17	1	1
8/31/17	1	1
9/30/17	1	1
10/31/17	1	1
11/30/17	1	1
12/31/17	1	1
1/31/18	1	1
2/28/18	1	1
3/31/18	1	1
4/30/18	1	1
5/31/18	1	1
6/30/18	1	1
7/31/18	1	1
8/31/18	1	1
9/30/18	1	1
10/31/18	1	1
11/30/18	1	1
12/31/18	1	1
1/31/19	1	1
2/28/19	1	1
3/31/19	1	1
4/30/19	1	1
5/31/19	1	1
6/30/19	1	1
7/31/19	1	1
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

Outfall 0031

00011 Temperature, water deg. fahrenheit / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Degrees Fahrenheit	Degrees Fahrenheit
Statistical Base	MO AVG	DAILY MX
Limit Value		89
DMR Values		
1/31/15	35	35
2/28/15	15	15
3/31/15	44	44
4/30/15	60	60
5/31/15	81	81
6/30/15	82	82

DMR Summary

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Outfall 0031

00011 Temperature, water deg. fahrenheit / Location 1 / Season 0 / Base

DMR Values		
7/31/15	76	76
8/31/15	78	78
9/30/15	75	75
10/31/15	63	63
11/30/15	47	47
12/31/15	46	46
1/31/16	40	40
2/29/16	58	58
3/31/16	47	47
4/30/16	65	65
5/31/16	66	66
6/30/16	81	81
7/31/16	86	86
8/31/16	84	84
9/30/16	70	70
10/31/16	55	55
11/30/16	45	45
12/31/16	34	34
1/31/17	40	40
2/28/17	39	39
3/31/17	61	61
4/30/17	56	56
5/31/17	65	65
6/30/17	79	79
7/31/17	84	84
8/31/17	76	76
9/30/17	82	82
10/31/17	45	45
11/30/17	46.5	46.5
12/31/17	47	47
1/31/18	41	41
2/28/18	45	45
3/31/18	58.3	58.3
4/30/18	65.66	65.66
5/31/18	76.1	76.1
6/30/18	80.2	80.2
7/31/18	77.18	77.18
8/31/18	81.14	81.14
9/30/18	75.4	75.4
10/31/18	59.2	59.2
11/30/18	51.4	51.4
12/31/18	51.62	51.62
1/31/19	45	45
2/28/19	60	60
3/31/19	64	64
4/30/19	76.5	76.5
5/31/19	64	64
6/30/19	84.6	84.6
7/31/19	74.8	74.8
8/31/19		
9/30/19		
10/31/19		

DMR Summary

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Outfall 0031

00011 Temperature, water deg. fahrenheit / Location 1 / Season 0 / Base

DMR Values		
11/30/19		
12/31/19		

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	MINIMUM	MAXIMUM
Limit Value	6	9
DMR Values		
1/31/15	7.6	7.6
2/28/15	7.5	7.5
3/31/15	8.4	8.4
4/30/15	8.2	8.2
5/31/15	7.7	7.7
6/30/15	7.4	7.4
7/31/15	7.6	7.6
8/31/15	7.9	7.9
9/30/15	8	8
10/31/15	8.4	8.4
11/30/15	8	8
12/31/15	8	8
1/31/16	8.1	8.1
2/29/16	8.2	8.2
3/31/16	8.4	8.4
4/30/16	8.6	8.6
5/31/16	7.7	7.7
6/30/16	8	8
7/31/16	8.1	8.1
8/31/16	8.3	8.3
9/30/16	8.1	8.1
10/31/16	8.1	8.1
11/30/16	8.6	8.6
12/31/16	8.6	8.6
1/31/17	8.7	8.7
2/28/17	8.2	8.2
3/31/17	7.7	7.7
4/30/17	8.3	8.3
5/31/17	8.4	8.4
6/30/17	8.1	8.1
7/31/17	8.2	8.2
8/31/17	8.3	8.3
9/30/17	8.1	8.1
10/31/17	8.4	8.4
11/30/17	7.7	7.7
12/31/17	8.3	8.3
1/31/18	8.1	8.1
2/28/18	7.7	7.7

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00400 pH / Location 1 / Season 0 / Base

DMR Values		
3/31/18	7.41	7.41
4/30/18	8.43	8.43
5/31/18	7.74	7.74
6/30/18	6.69	6.69
7/31/18	7.28	7.28
8/31/18	7.62	7.62
9/30/18	7.5	7.5
10/31/18	7.72	7.72
11/30/18	7.68	7.68
12/31/18	7.68	7.68
1/31/19	8.22	8.22
2/28/19	6.68	6.68
3/31/19	7.42	7.42
4/30/19	7.73	7.73
5/31/19	8.11	8.11
6/30/19	7.44	7.44
7/31/19	7.94	7.94
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	30	60
DMR Values		
1/31/15	5	5
2/28/15	6	6
3/31/15	7	7
4/30/15	5	5
5/31/15	5	5
6/30/15	5	5
7/31/15	6	6
8/31/15	5	5
9/30/15	5	5
10/31/15	7	7
11/30/15	5	5
12/31/15	5	5
1/31/16	5	5
2/29/16	10	10
3/31/16	10	10
4/30/16	5	5
5/31/16	5	5
6/30/16	5	5

DMR Summary

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00530 Solids, total suspended / Location 1 / Season 0 / Base

DMR Values		
7/31/16	5	5
8/31/16	5	5
9/30/16	7	7
10/31/16	6	6
11/30/16	5	5
12/31/16	7	7
1/31/17	5	5
2/28/17	5	5
3/31/17	5	5
4/30/17	5	5
5/31/17	5	5
6/30/17	5	5
7/31/17	5	5
8/31/17	5	5
9/30/17	5	5
10/31/17	5	5
11/30/17	5	5
12/31/17	10	10
1/31/18	5	5
2/28/18	5	5
3/31/18	5	5
4/30/18	5	5
5/31/18	5	5
6/30/18	5	5
7/31/18	5	5
8/31/18	5	5
9/30/18	3	3
10/31/18	3	3
11/30/18	8	8
12/31/18	8	8
1/31/19	5	5
2/28/19	9	9
3/31/19	7	7
4/30/19	20	20
5/31/19	11	11
6/30/19	5	5
7/31/19	8	8
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

00556 Oil & Grease / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Permit KY0003531

Version # 0

Outfall 0031

00556 Oil & Grease / Location 1 / Season 0 / Base

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	10	15
DMR Values		
1/31/15	5	5
2/28/15	6	6
3/31/15	5.4	5.4
4/30/15	5.3	5.3
5/31/15	6	6
6/30/15	5.3	5.3
7/31/15	6	6
8/31/15	5.1	5.1
9/30/15	5.5	5.5
10/31/15	5.3	5.3
11/30/15	5.6	5.6
12/31/15	5.3	5.3
1/31/16	5.6	5.6
2/29/16	5.7	5.7
3/31/16	5.7	5.7
4/30/16	5.8	5.8
5/31/16	5.8	5.8
6/30/16	6.1	6.1
7/31/16	6	6
8/31/16	5.8	5.8
9/30/16	5.7	5.7
10/31/16	6.1	6.1
11/30/16	5.8	5.8
12/31/16	5.9	5.9
1/31/17	5.6	5.6
2/28/17	5.6	5.6
3/31/17	5.7	5.7
4/30/17	5.8	5.8
5/31/17	5.5	5.5
6/30/17	5.5	5.5
7/31/17	5.7	5.7
8/31/17	5	5
9/30/17	5	5
10/31/17	5.4	5.4
11/30/17	5.6	5.6
12/31/17	5.7	5.7
1/31/18	6	6
2/28/18	5.8	5.8
3/31/18	8.3	8.3
4/30/18	6.7	6.7
5/31/18	6.2	6.2
6/30/18	6.3	6.3
7/31/18	5.3	5.3
8/31/18	5.9	5.9
9/30/18	6.7	6.7
10/31/18	5.9	5.9
11/30/18	5.7	5.7
12/31/18	5.7	5.7

DMR Summary

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Outfall 0031

00556 Oil & Grease / Location 1 / Season 0 / Base

DMR Values		
1/31/19	7	7
2/28/19	5	5
3/31/19	5	5
4/30/19	5	5
5/31/19	5	5
6/30/19	5	5
7/31/19	5	5
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

00900 Hardness, total [as CaCO3] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
1/31/15	145
2/28/15	107
3/31/15	171
4/30/15	114
5/31/15	134
6/30/15	131
7/31/15	103
8/31/15	83.5
9/30/15	92.1
10/31/15	114
11/30/15	142
12/31/15	122
1/31/16	109
2/29/16	99.4
3/31/16	132
4/30/16	65
5/31/16	100
6/30/16	94.3
7/31/16	81.3
8/31/16	81.6
9/30/16	102
10/31/16	97.3
11/30/16	104
12/31/16	111
1/31/17	82.5
2/28/17	76.1
3/31/17	67.4
4/30/17	92.2

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00900 Hardness, total [as CaCO3] / Location 1 / Season 0 / Base

DMR Values	
5/31/17	107
6/30/17	194
7/31/17	207
8/31/17	88.9
9/30/17	96.1
10/31/17	153
11/30/17	191
12/31/17	200
1/31/18	194
2/28/18	200
3/31/18	202
4/30/18	97.6
5/31/18	187
6/30/18	197
7/31/18	199
8/31/18	170
9/30/18	202
10/31/18	213
11/30/18	164
12/31/18	164
1/31/19	212
2/28/19	129
3/31/19	170
4/30/19	148
5/31/19	212
6/30/19	124
7/31/19	130
8/31/19	
9/30/19	
10/31/19	
11/30/19	
12/31/19	

01051 Lead, total [as Pb] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value		
DMR Values		
1/31/15	.00019	.00019
2/28/15	.00015	.00015
3/31/15	.005	.005
4/30/15	.001	.001
5/31/15	.005	.005
6/30/15	.005	.005
7/31/15	.005	.005
8/31/15	.001	.001

DMR Summary

Permit KY0003531

Version # 0

Outfall 0031

01051 Lead, total [as Pb] / Location 1 / Season 0 / Base

DMR Values		
9/30/15	.001	.001
10/31/15	.005	.005
11/30/15	.005	.005
12/31/15	.001	.001
1/31/16	.001	.001
2/29/16	.001	.001
3/31/16	.001	.001
4/30/16	.005	.005
5/31/16	.001	.001
6/30/16	.005	.005
7/31/16	.005	.005
8/31/16	.0002	.0002
9/30/16	.005	.005
10/31/16	.005	.005
11/30/16	.0002	.0002
12/31/16	.005	.005
1/31/17	.005	.005
2/28/17	.005	.005
3/31/17	.005	.005
4/30/17	.005	.005
5/31/17	.005	.005
6/30/17	.005	.005
7/31/17	.005	.005
8/31/17	.005	.005
9/30/17	.005	.005
10/31/17	.001	.001
11/30/17	.001	.001
12/31/17	.001	.001
1/31/18	.0049	.0049
2/28/18	.0072	.0072
3/31/18	.0031	.0031
4/30/18	.001	.001
5/31/18	.024	.024
6/30/18	.0017	.0017
7/31/18	.0021	.0021
8/31/18	.0094	.0094
9/30/18	.0056	.0056
10/31/18	.0031	.0031
11/30/18	.0031	.0031
12/31/18	.0031	.0031
1/31/19	.0062	.0062
2/28/19	.0062	.0062
3/31/19	.0062	.0062
4/30/19	.0062	.0062
5/31/19	.0062	.0062
6/30/19	.0062	.0062
7/31/19	.0062	.0062
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

DMR Summary

Permit KY0003531

Version # 0

Outfall 0031

01051 Lead, total [as Pb] / Location 1 / Season 0 / Base

01092 Zinc, total [as Zn] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Grab	Monthly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value		
DMR Values		
1/31/15	.01	.01
2/28/15	.01	.01
3/31/15	.039	.039
4/30/15	.0093	.0093
5/31/15	.02	.02
6/30/15	.021	.021
7/31/15	.02	.02
8/31/15	.0023	.0023
9/30/15	.0031	.0031
10/31/15	.01	.01
11/30/15	.01	.01
12/31/15	.0063	.0063
1/31/16	.0036	.0036
2/29/16	.01	.01
3/31/16	.0097	.0097
4/30/16	.02	.02
5/31/16	.0065	.0065
6/30/16	.01	.01
7/31/16	.01	.01
8/31/16	.0052	.0052
9/30/16	.01	.01
10/31/16	.01	.01
11/30/16	.0065	.0065
12/31/16	.01	.01
1/31/17	.01	.01
2/28/17	.01	.01
3/31/17	.01	.01
4/30/17	.012	.012
5/31/17	.013	.013
6/30/17	.01	.01
7/31/17	.015	.015
8/31/17	.011	.011
9/30/17	.011	.011
10/31/17	.011	.011
11/30/17	.0058	.0058
12/31/17	.0079	.0079
1/31/18	.055	.055
2/28/18	.042	.042
3/31/18	.015	.015
4/30/18	.0021	.0021
5/31/18	.041	.041
6/30/18	.0096	.0096

Permit KY0003531

Version # 0

Outfall 0031

01092 Zinc, total [as Zn] / Location 1 / Season 0 / Base

DMR Values		
7/31/18	.013	.013
8/31/18	.017	.017
9/30/18	.058	.058
10/31/18	.11	.11
11/30/18	.11	.11
12/31/18	.011	.011
1/31/19	.002	.002
1/31/19	.022	.022
2/28/19	.22	.22
3/31/19	.22	.22
4/30/19	.22	.22
5/31/19	.22	.22
6/30/19	.22	.22
7/31/19	.22	.22
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		

50050 Flow, in conduit or thru treatment plant / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
9/1/14	8/31/19	Instantaneous	Monthly

Limit		
Limit Unit Desc	Million Gallons per	Million Gallons per
Statistical Base	MO AVG	DAILY MX
Limit Value		
DMR Values		
1/31/15	.066	.066
2/28/15	.066	.066
3/31/15	.066	.066
4/30/15	.066	.066
5/31/15	.066	.066
6/30/15	.066	.066
7/31/15	.066	.066
8/31/15	.045	.045
9/30/15	.045	.045
10/31/15	.045	.045
11/30/15	.045	.045
12/31/15	.045	.045
1/31/16	.045	.045
2/29/16	.045	.045
3/31/16	.045	.045
4/30/16	.045	.045
5/31/16	.045	.045
6/30/16	.045	.045
7/31/16	.045	.045
8/31/16	.045	.045
9/30/16	.045	.045

DMR Summary

Permit KY0003531

Version # 0

Outfall 0031

50050 Flow, in conduit or thru treatment plant / Location 1 / Season 0 / Base

DMR Values		
10/31/16	.045	.045
11/30/16	.045	.045
12/31/16	.045	.045
1/31/17	.018	.018
2/28/17	.045	.045
3/31/17	.045	.045
4/30/17	.045	.045
5/31/17	.045	.045
6/30/17	.045	.045
7/31/17	.045	.045
8/31/17	.045	.045
9/30/17	.045	.045
10/31/17	.045	.045
11/30/17	.045	.045
12/31/17	.045	.045
1/31/18	.045	.045
2/28/18	.045	.045
3/31/18	.045	.045
4/30/18	.045	.045
5/31/18	.045	.045
6/30/18	.045	.045
7/31/18	.045	.045
8/31/18	.045	.045
9/30/18	.045	.045
10/31/18	.045	.045
11/30/18	.045	.045
12/31/18	.045	.045
1/31/19	.045	.045
2/28/19	.045	.045
3/31/19	.048	.048
4/30/19	.045	.045
5/31/19	.045	.045
6/30/19	.045	.045
7/31/19	.045	.045
8/31/19		
9/30/19		
10/31/19		
11/30/19		
12/31/19		