

Detroit South Pre-Treatment Discharge Monitoring Data March-24

Summary

	# of Sample Parameters	# of Passing Parameters	Sample Pass Rate
Daily Exceedance	130	130	100%
Monthly Exceedance	118	118	100%

All required daily and monthly samples were collected and were below discharge limits before being discharged for further treatment at GLWA.

Discharge Monitoring Results

Parameter	Minimum Sampling Frequency	Daily Maximum mg/L	Monthly Average mg/L	Site Comp	Site Comp	Site Grab	Site Comp	Site Comp	Site Grab	Site Comp	Site Grab	Site Comp	Site Comp	Monthly Average mg/L
				03/01/24 mg/L	03/05/24 mg/L	03/12/24 mg/L	03/12/24 mg/L	03/19/24 mg/L	03/21/24 mg/L	03/22/24 mg/L	03/26/24 mg/L	03/26/24 mg/L	03/29/24 mg/L	
Metals														
Total Antimony	1/wk	0.249	0.206				<0.10	<0.10	<0.10				<0.10	<0.10
Total Arsenic	1/wk	0.162	0.104				<0.10	<0.10	<0.10				<0.10	<0.10
Total Cadmium	1/wk	0.474	0.0962				<0.05	<0.05	<0.05				<0.05	<0.05
Total Chromium	1/wk	0.947	0.487				<0.10	<0.10	<0.10				<0.10	<0.10
Total Cobalt	1/wk	0.192	0.124				<0.10	<0.10	<0.10				<0.10	<0.10
Total Copper	1/wk	0.405	0.301				<0.10	<0.10	<0.10				<0.10	<0.10
Total Lead	1/wk	0.222	0.172				<0.10	<0.10	<0.10				<0.10	<0.10
Total Mercury	1/wk	0.00234	0.000739				<0.0002	<0.0002	<0.0002				<0.0002	<0.0002
Total Nickel	1/wk	3.95	1.45				<0.10	<0.10	<0.10				<0.10	<0.10
Total Silver	1/wk	0.12	0.0351				<0.03	<0.03	<0.03				<0.03	<0.03
Total Tin	1/wk	0.409	0.12				<0.10	<0.10	<0.10				<0.10	<0.10
Total Titanium	1/wk	0.0947	0.0618				<0.05	<0.05	<0.05				<0.05	<0.05
Total Vanadium	1/wk	0.218	0.0662				<0.05	<0.05	<0.05				<0.05	<0.05
Total Zinc	1/wk	2.87	0.641				<0.10	<0.10	<0.10				<0.10	<0.10
Organics														
Bis(2-ethylhexyl)phthalate	1/wk	0.267	0.158	<0.010	<0.050		<0.010	<0.050			<0.050		<0.050	<0.050
Carbazole	1/wk	0.392	0.233	<0.010	<0.010		<0.010	<0.010			<0.020		<0.020	<0.020
o-Cresol	1/wk	1.92	0.561	0.014	0.010		<0.010	<0.010			<0.010		<0.010	<0.010
p-Cresol	1/wk	0.698	0.205	0.041	0.036		<0.010	<0.010			<0.010		<0.010	0.015
n-Decane	1/wk	5.79	3.31	<0.010	<0.010		<0.010	<0.010			<0.010		<0.010	<0.010
Fluoranthene	1/wk	0.787	0.393	<0.010	<0.010		<0.010	<0.010			<0.010		<0.010	<0.010
n-Octadecane	1/wk	1.22	0.925	<0.010	<0.010		<0.010	<0.010			<0.010		<0.010	<0.010
2,4,6-Trichlorophenol	1/wk	0.155	0.106	<0.010	<0.010		<0.010	<0.010			<0.050		<0.050	<0.050
PFAS														
Perfluorooctanesulfonic acid (µg/L)	2/mo	0.06 µg/L	---							<0.06		<0.06		
Other														
Cyanide (Amenable) (CNA)	2/mo	1.5	---				<1.0							
Fats, Oil and Grease	2/mo	1500	---				<100							
Total Suspended Solids	2/mo	10000	---				<100		<100					
BOD	2/mo	10000	---				174		<60					
Phosphorus	2/mo	150	---				<5.0		<5.0					

Continuous pH

Discharge Date	Minimum Sampling Frequency	Daily Minimum pH (SU)	Daily Maximum pH (SU)	Minimum pH		Maximum pH	
				Time	pH (SU)	Time	pH (SU)
1-Mar-24	Site Grab	<5	>11.5	7:00	8.50	8:15	9.40
4-Mar-24	Site Grab	<5	>11.5	16:45	6.20	16:45	6.20
5-Mar-24	Site Grab	<5	>11.5	6:00	9.60	6:00	9.60
6-Mar-24	Site Grab	<5	>11.5	9:00	7.10	5:35	8.80
7-Mar-24	Site Grab	<5	>11.5	16:15	8.30	5:00	9.60
8-Mar-24	Continuous	<5	>11.5	8:57	6.34	16:00	9.50
11-Mar-24	Continuous	<5	>11.5	18:31	6.26	9:21	10.02
12-Mar-24	Continuous	<5	>11.5	18:41	5.22	3:01	9.75
13-Mar-24	Continuous	<5	>11.5	19:01	6.33	3:11	8.27
14-Mar-24	Continuous	<5	>11.5	18:12	5.57	18:02	9.67
15-Mar-24	Continuous	<5	>11.5	8:12	6.57	11:22	9.68
17-Mar-24	Continuous	<5	>11.5	23:53	7.11	12:53	7.23
18-Mar-24	Continuous	<5	>11.5	8:13	6.30	17:43	9.83
19-Mar-24	Continuous	<5	>11.5	12:13	6.37	9:03	7.81
20-Mar-24	Continuous	<5	>11.5	0:03	6.71	6:23	9.41
21-Mar-24	Continuous	<5	>11.5	17:24	5.71	8:34	7.38
22-Mar-24	Continuous	<5	>11.5	17:44	6.65	3:24	9.01
25-Mar-24	Continuous	<5	>11.5	7:45	6.75	18:35	9.62
26-Mar-24	Continuous	<5	>11.5	18:35	5.83	15:45	9.09
27-Mar-24	Continuous	<5	>11.5	18:26	6.74	18:16	9.62
28-Mar-24	Continuous	<5	>11.5	17:46	6.75	5:06	8.91
30-Mar-24	Continuous	<5	>11.5	6:06	6.81	8:36	6.89