

## Detroit South Pre-Treatment Discharge Monitoring Data February-24

### Summary

	# of Sample Parameters	# of Passing Parameters	Sample Pass Rate
Daily Exceedance	150	149	99%
Monthly Exceedance	102	102	100%

All required daily and monthly samples were collected before being discharged for further treatment at GLWA. Continuous pH monitoring had a brief elevated pH on February 5. Notifications were made to GLWA on February 6. All other sample parameters passed daily and monthly limits.

### Discharge Monitoring Results

Parameter	Minimum Sampling Frequency	Daily Maximum mg/L	Monthly Average mg/L	Site Grab 02/06/24 mg/L	Site Comp 02/06/24 mg/L	Site Grab 02/13/24 mg/L	Site Comp 02/13/24 mg/L	Site Grab 02/15/24 mg/L	Site Comp 02/24/24 mg/L	Site Grab 02/26/24 mg/L	Site Comp 02/27/24 mg/L	Monthly Average mg/L
<b>Metals</b>												
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
<b>Organics</b>												
Bis(2-ethylhexyl)phthalate	1/wk	0.267	0.158		<0.010		<0.010		0.014			<0.010
Carbazole	1/wk	0.392	0.233		<0.010		<0.010		0.011			<0.010
o-Cresol	1/wk	1.92	0.561		<0.010		0.016		0.011			<0.010
p-Cresol	1/wk	0.698	0.205		<0.010		0.047		0.017			0.021
n-Decane	1/wk	5.79	3.31		<0.010		<0.010		<0.010			<0.010
Fluoranthene	1/wk	0.787	0.393		<0.010		<0.010		<0.010			<0.010
n-Octadecane	1/wk	1.22	0.925		<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
<b>PFAS</b>												
Perfluorooctanesulfonic acid	2/mo	0.06 µg/L	---					<0.06		0.095		
<b>Other</b>												
Cyanide (Amenable) (CNA)	2/mo	1.5	---	<1.0		<1.0						
Fats, Oil and Grease	2/mo	1500	---	<100		<100						
Total Suspended Solids	2/mo	10000	---		<100		<100					
BOD	2/mo	10000	---		<60		85.3					
Phosphorus	2/mo	150	---		<5.0		20.5					
<b>PCBs</b>												
Total PCB	1/6 mos	<0.0002	---		<0.0002							
PCB- Arochlor 1016	1/6 mos	<0.0002	---		<0.0002							
PCB- Arochlor 1221	1/6 mos	<0.0002	---		<0.0002							
PCB- Arochlor 1232	1/6 mos	<0.0002	---		<0.0002							
PCB- Arochlor 1242	1/6 mos	<0.0002	---		<0.0002							
PCB- Arochlor 1248	1/6 mos	<0.0002	---		<0.0002							
PCB- Arochlor 1254	1/6 mos	<0.0002	---		<0.0002							
PCB- Arochlor 1260	1/6 mos	<0.0002	---		<0.0002							
<b>Phenolic Compounds</b>												
2-Chlorophenol	1/6 mos	8.0	---		<0.50							
4-Chlorophenol	1/6 mos	3.0	---		<0.50							
4-Chloro-3-Methyl Phenol	1/6 mos	6.0	---		<0.50							
2,4-Dichlorophenol	1/6 mos	30.0	---		<0.010							
2,4-Dinitrophenol	1/6 mos	86	---		<0.50							
Phenol	1/6 mos	86	---		<0.50							

### 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-Feb-24	Continuous	<5	>11.5	10:50	5.98	9:30	11.01
2-Feb-24	Continuous	<5	>11.5	19:31	6.97	10:10	11.37
3-Feb-24	Continuous	<5	>11.5	0:41	7.19	10:41	7.93
5-Feb-24	Continuous	<5	>11.5	8:11	6.23	8:01	<b>12.40</b>
6-Feb-24	Continuous	<5	>11.5	0:31	6.80	1:42	10.28
7-Feb-24	Site Grab	<5	>11.5	17:00	8.60	7:00	9.50
8-Feb-24	Site Grab	<5	>11.5	15:00	8.00	16:30	10.00
9-Feb-24	Site Grab	<5	>11.5	9:00	8.72	10:00	9.30
10-Feb-24	Site Grab	<5	>11.5	1:00	7.90	8:30	10.20
12-Feb-24	Site Grab	<5	>11.5	7:00	8.75	9:00	9.25
13-Feb-24	Site Grab	<5	>11.5	9:00	9.25	9:00	9.25
14-Feb-24	Site Grab	<5	>11.5	3:00	8.80	10:00	9.51
15-Feb-24	Site Grab	<5	>11.5	1:00	8.00	2:00	10.00
16-Feb-24	Site Grab	<5	>11.5	10:00	9.18	12:00	9.89
17-Feb-24	Site Grab	<5	>11.5	5:00	7.00	3:00	9.00
21-Feb-24	Site Grab	<5	>11.5	9:30	6.12	12:00	8.50
22-Feb-24	Site Grab	<5	>11.5	10:15	7.20	9:15	8.70
23-Feb-24	Site Grab	<5	>11.5	8:45	6.80	2:00	8.00
26-Feb-24	Site Grab	<5	>11.5	1:00	7.80	10:30	8.50
27-Feb-24	Site Grab	<5	>11.5	3:00	6.80	17:15	10.40
28-Feb-24	Site Grab	<5	>11.5	9:45	7.10	1:00	9.40
29-Feb-24	Site Grab	<5	>11.5	7:30	8.50	8:45	9.30