

## **TCEQ Analysis of ITC Water Quality Sampling Data (Final Lab Results)**

The Texas Commission on Environmental Quality (TCEQ) assessed final water quality data for 117 constituents at one site. Eleven (11) samples were collected from April 10 through April 11, 2019 by Intercontinental Terminal Company (ITC). The constituents consist of organics, chemical oxygen demand (COD), and oil and grease in water. The sampling site was the following:

- Gate 13 Ditch

This assessment is based on final results received from the laboratory. As additional water quality sampling is completed, the data will be assessed, and results made available.

The TCEQ used the Texas Water Quality Standards and the Texas Risk Reduction Program as references for determining the known health protective concentration levels (PCLs) in surface water. PCLs are very conservative and below levels where we would expect any health impacts. The TCEQ is using these PCLs to evaluate impacts to aquatic life and human health. No public drinking water system draws its source water from the Houston Ship Channel. This methodology was also used for previously reviewed data from samples collected by ITC and will be used to review samples from the TCEQ contractor. The TCEQ used the PCLs listed in the tables below to assess the surface water quality data

**Table 1. Assessment of Final Laboratory Results**

	Gate 13 Ditch on April 10, 2019 at 1:00 PM	Gate 13 Ditch on April 10, 2019 at 3:00 PM	Gate 13 Ditch on April 10, 2019 at 5:00 PM	Gate 13 Ditch on April 10, 2019 at 7:00 PM	Gate 13 Ditch on April 10, 2019 at 9:00 PM	Gate 13 Ditch on April 10, 2019 at 11:00 PM
Number of Constituents	117	117	117	117	117	117
Number of constituents analyzed but not detected (not detected above the method detection limit or quantitation limit)	107	107	107	107	107	107
Number of constituents detected above the method detection limit or quantitation limit	10	10	10	10	10	10
Number of constituents detected but below their known PCLs	6	6	6	5	6	6
Number of constituents that exceeded their known PCLs	4	4	4	5	4	4
Number of constituents that are still pending further TCEQ evaluation	0	0	0	0	0	0
Number of constituents that do not have a PCL or are assessed with other constituents	0	0	0	0	0	0

**Table 1 continued. Assessment of Final Laboratory Results**

	Gate 13 Ditch on April 11, 2019 at 1:00 AM	Gate 13 Ditch on April 11, 2019 at 3:00 AM	Gate 13 Ditch on April 11, 2019 at 5:00 AM	Gate 13 Ditch on April 11, 2019 at 7:00 AM	Gate 13 Ditch on April 11, 2019 at 9:00 AM
Number of Constituents	117	117	117	117	117
Number of constituents analyzed but not detected (not detected above the method detection limit or quantitation limit)	107	107	107	107	108
Number of constituents detected above the method detection limit or quantitation limit	10	10	10	10	9
Number of constituents detected but below their known PCLs	6	6	6	7	6
Number of constituents that exceeded their known PCLs	4	4	4	3	3
Number of constituents that are still pending further TCEQ evaluation	0	0	0	0	0
Number of constituents that do not have a PCL or are assessed with other constituents	0	0	0	0	0

Below are tables of constituents that exceeded their known PCLs at each of the sampling times.

**Table 2. Summary of Constituents Exceeding PCLs for April 10, 2019 at 1:00 PM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	4400	581
Toluene	2300	1000
Xylenes, Total	11000	850
COD	188000	150000*

**Table 3. Summary of Constituents Exceeding PCLs for April 10, 2019 at 3:00 PM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	3800	581
Toluene	2000	1000
Xylenes, Total	9400	850
COD	176000	150000*

**Table 4. Summary of Constituents Exceeding PCLs for April 10, 2019 at 5:00 PM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	3900	581
Toluene	2000	1000
Xylenes, Total	9600	850
COD	178000	150000*

**Table 5. Summary of Constituents Exceeding PCLs for April 10, 2019 at 7:00 PM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	4700	581
Toluene	2500	1000
Xylenes, Total	9600	850
COD	222000	150000*
Oil and Grease	33300	28000

**Table 6. Summary of Constituents Exceeding PCLs for April 10, 2019 at 9:00 PM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	4400	581
Toluene	2300	1000
Xylenes, Total	9900	850
COD	184000	150000*

**Table 7. Summary of Constituents Exceeding PCLs for April 10, 2019 at 11:00 PM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	3700	581
Toluene	1900	1000
Xylenes, Total	8300	850
COD	174000	150000*

**Table 8. Summary of Constituents Exceeding PCLs for April 11, 2019 at 1:00 AM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	4100	581
Toluene	2100	1000
Xylenes, Total	8700	850
COD	158000	150000*

**Table 9. Summary of Constituents Exceeding PCLs for April 11, 2019 at 3:00 AM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	3800	581
Toluene	1900	1000
Xylenes, Total	8000	850
COD	158000	150000*

**Table 10. Summary of Constituents Exceeding PCLs for April 11, 2019 at 5:00 AM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	3600	581
Toluene	1800	1000
Xylenes, Total	7500	850
COD	154000	150000*

**Table 11. Summary of Constituents Exceeding PCLs for April 11, 2019 at 7:00 AM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	3400	581
Toluene	1700	1000
Xylenes, Total	6800	850

**Table 12. Summary of Constituents Exceeding PCLs for April 11, 2019 at 9:00 AM Sample**

<b>Constituent</b>	<b>Maximum (micrograms/L)</b>	<b>PCL (micrograms/L)</b>
Benzene	2600	581
Toluene	1400	1000
Xylenes, Total	4200	850

Footnote:

\*COD is a measure of the oxygen demand exerted by chemical constituents in water. There was not a known PCL for COD, therefore the permitted technology-based limit was used for comparison purposes. Although COD levels for treated process wastewater vary 150000 micrograms/L for noncontact stormwater was provided for comparison purposes.