

APPENDIX D

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Table D-1.1
Stormwater Analytical Data for Outfall 230 WY2022 - Composite Samples

| | Sample 1 10/22/2021 | Sample 2 11/9/2021 | Sample 3 11/19/2021 | Sample 4 12/5/2021 | Sample 5 12/18/2021 | Sample 6 1/20/2022 | Sample 7 2/28/2022 | Sample 8 3/15/2022 | Sample 9 4/4/2022 | Sample 10 4/20/2022 | Sample 11 5/15/2022 | Sample 12 6/9/2022 |
|------------------------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------|------------------------|-----------------------|
| Conventionals | | | | | | | | | | | | |
| Anionic Surfactants - MBAS (ug/L) | – | 30.9 | 36.1 | 32.1 | 32.8 | – | 39.8 | 48.9 | 24.5 J | – | 61.1 | 39.1 |
| BOD (mg/L) | 6.6 | 4.1 | 2.5 | 2.7 | 3.7 | – | 2.0 UJ | 3.3 | – | – | 4.00 | 3.1 |
| Chloride (mg/L) | – | 2.15 | 11.8 | 9.2 | 21.3 | – | 10.3 | 11.0 | 8.24 | – | 3.42 | 1.32 J |
| Conductivity (uS/cm) | 69.9 | 40.3 | 59.1 | 100 | 109 | 106 | 59.0 | 67.9 | 57.3 | 45.0 | 45.4 | 31.8 |
| Hardness (mg CaCO3/L) | 14.1 | 12.9 | 23.9 | 29.5 | 14.9 | 23.8 | 11.4 | 13.2 | 13.4 | 14.1 | 15.0 | 11.3 |
| pH (pH Units) | 6.8 | 6.6 | 7.4 | 6.7 | 6.5 | 7.2 | 6.7 | 6.9 | 7.1 | 7.1 | 7.2 | 7.8 |
| Total Suspended Solids (mg/L) | 12.4 | 8.26 | 10.0 | 20.2 | 39.5 J | 58.6 | 30.8 | 44.4 | 97.0 | 32.5 | 18.2 | 20.8 |
| Turbidity (NTU) | – | 6.77 | 12.2 | 7.53 | 14.6 | – | 17.4 | 17.2 | 26.0 | – | 18.3 | 10.1 |
| Nutrients | | | | | | | | | | | | |
| Nitrate+Nitrite as N (mg/L) | 0.181 | 0.123 | 0.218 | 0.379 | 0.098 | – | 0.111 | 0.107 | 0.112 | 0.132 | 0.166 | 0.123 |
| Phosphate, Ortho (mg/L) | 0.060 | 0.041 | 0.029 | 0.043 | 0.020 | – | 0.029 | 0.018 | 0.029 | 0.012 | 0.025 | 0.023 |
| Phosphorus, Total (mg/L) | 0.116 | 0.078 | 0.067 | 0.077 | 0.083 | – | 0.104 | 0.115 | 0.127 | 0.123 | 0.095 | 0.081 |
| Total Nitrogen (mg/L) | 0.49 | 0.33 | 0.49 | 0.64 | 0.53 | – | 0.46 | 0.40 | 0.43 | 0.62 | 0.64 UJ | 0.43 |
| Metals | | | | | | | | | | | | |
| Cadmium (ug/L) | 0.067 J | 0.063 U | 0.176 J | 0.063 U | 0.070 J | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Cadmium, Dissolved (ug/L) | 0.040 U | 0.040 U | 0.125 J | 0.040 U | 0.040 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U |
| Copper (ug/L) | 6.35 | 3.84 | 14.7 | 4.72 | 6.73 | 11.1 | 8.60 | 9.27 | 8.55 | 8.51 | 8.19 | 5.98 |
| Copper, Dissolved (ug/L) | 3.67 | 2.34 | 7.66 | 2.96 | 1.96 | 4.69 | 2.35 | 2.64 | 3.58 | 4.28 | 4.43 | 2.88 |
| Lead (ug/L) | 4.34 | 2.13 | 16.5 | 2.09 | 6.86 | 9.27 | 9.19 | 9.30 | 7.41 | 5.68 | 5.48 | 4.38 |
| Lead, Dissolved (ug/L) | 0.615 | 0.475 | 3.74 | 0.350 | 0.208 | 0.443 | 0.222 | 0.233 | 0.306 | 0.243 | 0.481 | 0.316 |
| Mercury (ug/L) | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U |
| Mercury, Dissolved (ug/L) | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U |
| Zinc (ug/L) | 54.6 | 40.0 | 46.3 | 43.4 | 63.3 | 125 | 69.4 | 75.6 | 81.8 | 65.1 | 61.9 | 51.8 |
| Zinc, Dissolved (ug/L) | 34.1 | 30.3 | 28.6 | 35.3 | 31.2 | 74.5 | 28.2 | 29.8 | 41.0 | 33.7 | 34.8 | 30.6 |
| Insecticides | | | | | | | | | | | | |
| Bifenthrin (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| LPAHs | | | | | | | | | | | | |
| 2-Methylnaphthalene (ug/L) | 0.469 | 0.017 | 0.010 U | 0.011 | 0.015 | 0.017 | 0.019 | 0.010 U | 0.014 | 0.010 U | 0.010 U | 0.011 |
| Acenaphthene (ug/L) | 0.010 U | 0.010 U | 0.011 | 0.010 U | 0.009 U | 0.009 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Acenaphthylene (ug/L) | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 UJ | 0.012 | 0.009 U | 0.009 U | 0.009 U |
| Anthracene (ug/L) | 0.005 U | 0.005 U | 0.007 J | 0.010 J | 0.006 J | 0.005 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U |
| Fluorene (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.009 U | 0.009 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.012 |
| Naphthalene (ug/L) | 0.528 | 0.020 J | 0.017 J | 0.020 J | 0.017 | 0.038 | 0.032 | Unusable R | 0.026 U | 0.026 U | 0.026 U | 0.026 U |
| Phenanthrene (ug/L) | 0.049 | 0.007 U | 0.017 | 0.026 | 0.029 | 0.068 | 0.048 | 0.035 | 0.035 | 0.033 | 0.128 | 0.041 |
| Total LPAHs | 0.594 | 0.041 | 0.062 | 0.071 | 0.066 | 0.122 | 0.1005 | | 0.076 | 0.0665 | 0.162 | 0.0815 |
| HPAHs | | | | | | | | | | | | |
| Benzo(a)anthracene (ug/L) | 0.011 | 0.006 U | 0.011 | 0.009 J | 0.014 | 0.029 | 0.027 | 0.006 U | 0.017 | 0.017 | 0.017 | 0.013 |
| Benzo(a)pyrene (ug/L) | 0.016 | 0.006 J | 0.012 | 0.012 | 0.019 | 0.041 | 0.033 | 0.033 | 0.026 | 0.026 | 0.003 U | 0.003 U |
| Benzo(b,k)fluoranthene (ug/L) | 0.047 | 0.016 J | 0.034 | 0.034 | 0.053 | 0.108 UJ | 0.086 | 0.080 | 0.061 | 0.053 | 0.076 | 0.044 UJ |
| Benzo(g,h,i)perylene (ug/L) | 0.028 | 0.009 J | 0.018 | 0.016 | 0.032 | 0.053 | 0.036 | 0.041 | 0.032 | 0.029 | 0.022 J | 0.018 |
| Chrysene (ug/L) | 0.028 | 0.009 J | 0.020 | 0.014 | 0.030 | 0.061 | 0.060 | 0.032 | 0.026 | 0.023 | 0.038 | 0.021 UJ |
| Dibenz(a,h)anthracene (ug/L) | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U |
| Fluoranthene (ug/L) | 0.046 | 0.016 | 0.028 | 0.023 | 0.046 | 0.095 | 0.087 | 0.058 | 0.050 | 0.046 | 0.141 | 0.049 UJ |
| Indeno(1,2,3-c,d)pyrene (ug/L) | 0.005 U | 0.005 U | 0.005 U | 0.014 | 0.023 | 0.039 | 0.029 | 0.033 | 0.028 | 0.022 | 0.020 | 0.015 |
| Pyrene (ug/L) | 0.048 | 0.018 | 0.038 | 0.025 | 0.052 | 0.106 | 0.085 | 0.082 | 0.064 | 0.061 | 0.104 | 0.049 UJ |
| Retene (ug/L) | 0.013 | 0.008 J | 0.014 | 0.009 J | 0.008 J | 0.026 | 0.006 J | 0.012 | 0.005 U | 0.010 | 0.007 J | 0.005 U |
| Total HPAHs | 0.230 | 0.083 | 0.1665 | 0.15 | 0.272 | 0.535 | 0.446 | 0.365 | 0.307 | 0.28 | 0.423 | 0.214 |
| TOTAL PAHs | 0.824 | 0.123 | 0.228 | 0.221 | 0.338 | 0.657 | 0.5465 | | 0.383 | 0.347 | 0.584 | 0.295 |
| Phthalates | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate (ug/L) | 1.68 | 0.880 J | 1.27 | 0.871 J | 1.03 | 2.52 | 0.975 J | 2.42 | 1.44 | 1.81 | 1.63 J | 1.11 |
| Butyl benzyl phthalate (ug/L) | 0.408 U | 0.412 U | 0.602 J | 0.407 U | 0.401 U | 0.401 U | 0.407 U | 0.411 U | 0.413 U | 0.409 U | 0.411 U | 0.410 U |
| Diethyl phthalate (ug/L) | 0.667 J | 0.388 J | 0.320 U | 0.399 J | 0.311 U | 0.379 J | 0.316 U | 0.318 U | 0.320 U | 0.317 U | 0.318 U | 0.317 U |
| Dimethyl phthalate (ug/L) | 0.344 U | 0.347 U | 0.348 U | 0.343 U | 0.338 U | 0.338 U | 0.344 U | 0.347 UJ | 0.348 U | 0.345 U | 0.346 U | 0.346 U |
| Di-n-butyl phthalate (ug/L) | 0.444 J | 0.558 J | 0.313 J | 0.455 J | 0.293 U | 0.401 J | 0.297 U | 0.300 U | 0.428 J | 0.354 J | 0.300 U | 0.299 U |
| Di-n-octyl phthalate (ug/L) | 0.365 U | 0.368 U | 0.369 U | 0.364 U | 0.359 U | 0.358 U | 0.364 U | 0.367 U | 0.369 U | 0.366 U | 0.367 U | 0.366 U |
| Total Phthalates | 2.79 | 1.83 | 2.19 | 1.73 | 1.03 | 3.30 | 0.98 | 2.42 | 1.87 | 2.16 | 1.63 | 1.11 |
| Herbicides | | | | | | | | | | | | |
| Dichlobenil (ug/L) | 0.033 J | 0.012 J | 0.014 J | 0.017 J | 0.060 J | 0.035 J | 0.124 | Unusable R | 0.066 | 0.033 J | 0.063 | 0.069 |

Bold – The analyte was present in the sample.
U – The analyte was not detected at or above the reported value.
J – The analyte was not detected at or above the reported estimated value.
J – The analyte was positively identified. The associated value is an estimate.
R – The value is considered unusable.

**Table D-1.2
Stormwater Analytical Data for Outfall 230 WY2022 - Grab Samples**

| | 3/14/2022 | 4/18/2022 | 5/5/2022 | 5/12/2022 |
|-----------------------------|--------------|---------------|--------------|--------------|
| TPH | | | | |
| NWTPH-Diesel (mg/L) | 0.10 U | 0.10 U | 0.10 U | 0.10 UJ |
| NWTPH-Heavy Oil (mg/L) | 0.35 | 0.55 | 0.47 | 0.46 |
| Bacteria¹ | | | | |
| Coliform, Fecal (CFU/100mL) | 17000 | 24000 | 33000 | 24000 |
| E. Coli (CFU/100mL) | 6200 | 13000 | 33000 | 13000 |
| Enterococci (CFU/100mL) | 11000 | 8600 J | 16000 | 26000 |

Bold – The analyte was present in the sample.
 U – The analyte was not detected at or above the reported value.
 UJ – The analyte was not detected at or above the reported estimated value.
 J – The analyte was positively identified. The associated value is an estimate.
 R – The value is considered unusable.
 E - Exceeds value.

Table D-2.1
Stormwater Analytical Data for Outfall 235 WY2022 - Composite Samples

| | Sample 1 10/22/2021 | Sample 2 11/4/2021 | Sample 3 11/19/2021 | Sample 4 12/4/2021 | Sample 5 12/18/2021 | Sample 6 1/20/2022 | Sample 7 2/28/2022 | Sample 8 3/19/2022 | Sample 9 4/4/2022 | Sample 10 4/20/2022 | Sample 11 5/15/2022 | Sample 12 6/9/2022 |
|------------------------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------|------------------------|-----------------------|
| Conventionals | | | | | | | | | | | | |
| Anionic Surfactants - MBAS (ug/L) | 40.0 | 32.2 | 27.0 | 73.3 | – | – | 49.4 | – | 23.1 J | – | 52.4 | 51.8 |
| BOD (mg/L) | 3.2 | 2.5 | 3.3 | 2.8 | 2.7 | – | 2.0 UJ | – | 4.9 | – | 3.2 | 4.2 |
| Chloride (mg/L) | 2.72 | 3.68 | 6.22 | 5.22 | – | – | 13.5 | – | 6.34 | – | 2.52 | 1.27 J |
| Conductivity (uS/cm) | 51.7 | 65.7 | 93.1 | 76.0 | 135 | 157 | 93.5 | 108 | 64.9 | 101 | 52.0 | 49.4 |
| Hardness (mg CaCO3/L) | 16.9 | 22.5 | 14.6 | 26.7 | 28.3 | 43.2 | 18.5 | 31.2 | 19.9 | 33.4 | 19.5 | 17.3 |
| pH (pH Units) | 7.3 | 7.0 | 7.1 | 7.3 | 7.4 | 7.5 | 6.7 | 7.9 | 7.3 | 6.8 | 7.4 | 7.2 |
| Total Suspended Solids (mg/L) | 17.1 | 11.5 | 8.40 | 16.2 | 33.3 J | 36.8 | 26.0 | 26.2 | 23.3 | 30.8 | 19.1 | 20.1 |
| Turbidity (NTU) | 7.34 | 14.0 | 7.11 | 15.5 | – | – | 17.6 | – | 19.5 | – | 33.5 | 14.2 |
| Nutrients | | | | | | | | | | | | |
| Nitrate+Nitrite as N (mg/L) | 0.183 | 0.235 | 0.177 | 0.282 | 0.177 | – | 0.232 | – | 0.207 | 0.319 | 0.202 | 0.186 |
| Phosphate, Ortho (mg/L) | 0.047 | 0.025 | 0.033 | 0.041 | 0.039 | – | 0.078 | – | 0.021 | 0.041 | 0.025 | 0.021 |
| Phosphorus, Total (mg/L) | 0.088 | 0.061 | 0.066 | 0.088 | 0.122 | – | 0.148 | – | 0.104 | 0.133 | 0.102 | 0.087 |
| Total Nitrogen (mg/L) | 0.50 | 0.48 | 0.42 | 0.58 | 0.65 | – | 0.65 | – | 0.42 | 0.60 | 0.54 UJ | 0.59 |
| Metals | | | | | | | | | | | | |
| Cadmium (ug/L) | 0.063 U | 0.189 J | 0.063 U | 0.063 U | 0.063 U | 0.102 J | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Cadmium, Dissolved (ug/L) | 0.040 U | 0.111 J | 0.040 U | 0.040 U | 0.040 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U |
| Copper (ug/L) | 14.3 | 14.6 | 4.11 | 17.8 | 17.7 | 25.2 | 13.7 | 20.6 | 19.4 | 18.6 | 21.3 | 19.1 |
| Copper, Dissolved (ug/L) | 8.54 | 7.19 | 2.00 | 9.81 | 6.44 | 2.76 | 5.90 | 11.7 | 9.45 | 10.3 | 10.8 | 10.3 |
| Lead (ug/L) | 28.8 | 21.2 | 2.46 | 24.4 | 25.2 | 25.4 | 19.6 | 24.1 | 23.8 | 18.7 | 32.7 | 28.1 |
| Lead, Dissolved (ug/L) | 11.1 | 5.09 | 0.412 | 5.66 | 2.88 | 1.30 | 2.34 | 5.20 | 3.15 | 3.09 | 5.53 | 4.34 |
| Mercury (ug/L) | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U |
| Mercury, Dissolved (ug/L) | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U |
| Zinc (ug/L) | 44.5 | 43.8 | 46.8 | 54.7 | 65.2 | 93.0 | 54.1 | 61.8 | 63.4 | 52.1 | 56.5 | 60.0 |
| Zinc, Dissolved (ug/L) | 23.3 | 21.9 | 33.4 | 32.8 | 26.6 | 9.68 | 23.7 | 28.2 | 28.8 | 25.1 | 23.8 | 26.1 |
| Insecticides | | | | | | | | | | | | |
| Bifenthrin (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| LPAHs | | | | | | | | | | | | |
| 2-Methylnaphthalene (ug/L) | 0.010 U | 0.010 U | 0.015 | 0.032 | 0.026 | 0.021 | 0.013 | 0.037 | 0.034 | 0.009 U | 0.010 U | 0.018 |
| Acenaphthene (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.009 U | 0.009 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Acenaphthylene (ug/L) | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 UJ | 0.023 | 0.009 U | 0.009 U | 0.009 U |
| Anthracene (ug/L) | 0.005 U | 0.026 | 0.005 U | 0.008 J | 0.005 U | 0.005 U | 0.022 | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U |
| Fluorene (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.009 U | 0.009 U | 0.009 U | 0.010 U | 0.010 U | 0.010 U | 0.009 U | 0.010 U | 0.009 U |
| Naphthalene (ug/L) | 0.016 U | 0.016 U | 0.024 J | 0.047 | 0.029 | 0.036 | 0.026 U | Unusable R | 0.030 | 0.026 U | 0.026 U | 0.026 U |
| Phenanthrene (ug/L) | 0.020 | 0.017 | 0.024 | 0.024 | 0.036 | 0.036 | 0.030 | 0.031 | 0.026 | 0.017 U | 0.023 | 0.022 |
| Total LPAHs | 0.045 | 0.066 | 0.065 | 0.093 | 0.081 | 0.088 | 0.080 | – | 0.095 | 0.042 | 0.057 | 0.055 |
| HPAHs | | | | | | | | | | | | |
| Benzo(a)anthracene (ug/L) | 0.007 J | 0.024 | 0.006 U | 0.017 | 0.018 | 0.015 | 0.037 | 0.006 U | 0.018 | 0.013 | 0.020 | 0.009 J |
| Benzo(a)pyrene (ug/L) | 0.008 J | 0.022 | 0.012 | 0.022 | 0.023 | 0.019 | 0.030 | 0.003 U | 0.021 | 0.018 | 0.003 U | 0.003 U |
| Benzo(b,k)fluoranthene (ug/L) | 0.024 J | 0.063 | 0.032 | 0.052 | 0.055 | 0.046 UJ | 0.079 | 0.042 | 0.046 | 0.041 | 0.064 | 0.033 UJ |
| Benzo(g,h,i)perylene (ug/L) | 0.015 | 0.025 | 0.017 | 0.034 | 0.038 | 0.030 | 0.026 | 0.021 | 0.024 | 0.020 | 0.020 | 0.020 |
| Chrysene (ug/L) | 0.015 | 0.038 | 0.016 | 0.029 | 0.036 | 0.032 | 0.052 | 0.018 | 0.020 | 0.017 | 0.037 | 0.018 UJ |
| Dibenz(a,h)anthracene (ug/L) | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U |
| Fluoranthene (ug/L) | 0.027 | 0.048 | 0.024 | 0.042 | 0.062 | 0.056 | 0.074 | 0.036 | 0.041 | 0.033 | 0.047 | 0.039 UJ |
| Indeno(1,2,3-c,d)pyrene (ug/L) | 0.005 U | 0.018 | 0.014 | 0.021 | 0.022 | 0.018 | 0.018 | 0.019 | 0.019 | 0.014 | 0.019 | 0.011 |
| Pyrene (ug/L) | 0.031 | 0.063 | 0.030 | 0.055 | 0.087 | 0.071 | 0.087 | 0.055 | 0.053 | 0.053 | 0.096 | 0.046 UJ |
| Retene (ug/L) | 0.009 J | 0.009 J | 0.015 | 0.115 | 0.016 | 0.017 | 0.007 J | 0.014 | 0.005 U | 0.013 | 0.008 J | 0.007 J |
| Total HPAHs | 0.133 | 0.304 | 0.151 | 0.275 | 0.344 | 0.290 | 0.406 | 0.1985 | 0.245 | 0.212 | 0.308 | 0.181 |
| Total PAHs | 0.178 | 0.370 | 0.216 | 0.368 | 0.425 | 0.378 | 0.486 | – | 0.340 | 0.254 | 0.364 | 0.236 |
| Phthalates | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate (ug/L) | 0.829 J | 1.10 | 1.06 | 1.40 | 1.44 | 2.93 | 0.777 J | 1.61 | 0.896 J | 1.29 | 1.37 J | 1.56 |
| Butyl benzyl phthalate (ug/L) | 0.410 U | 0.413 U | 0.407 U | 1.74 | 0.768 J | 1.09 | 0.545 J | 1.91 | 0.923 J | 0.407 U | 0.418 J | 0.539 J |
| Diethyl phthalate (ug/L) | 0.318 U | 0.320 U | 0.359 J | 0.367 J | 0.549 J | 0.444 J | 0.318 U | 0.501 J | 0.373 J | 0.315 U | 0.317 U | 0.343 J |
| Dimethyl phthalate (ug/L) | 0.346 U | 0.348 U | 0.343 U | 0.341 U | 0.336 U | 0.336 U | 0.347 U | 0.344 UJ | 0.349 U | 0.343 U | 0.345 U | 0.343 U |
| Di-n-butyl phthalate (ug/L) | 0.299 U | 0.302 U | 0.361 J | 0.559 J | 0.482 J | 0.525 J | 0.300 U | 0.525 J | 0.333 J | 0.478 J | 0.298 U | 0.296 U |
| Di-n-octyl phthalate (ug/L) | 0.366 U | 0.369 U | 0.364 U | 0.362 U | 0.356 U | 0.356 U | 0.367 U | 0.364 U | 0.370 U | 0.363 U | 0.365 U | 0.363 U |
| Total Phthalates | 0.829 | 1.10 | 1.78 | 4.07 | 3.239 | 4.989 | 1.32 | 4.546 | 2.53 | 1.768 | 1.79 | 2.442 |
| Herbicides | | | | | | | | | | | | |
| Dichobeniil (ug/L) | 0.058 | 0.030 J | 0.012 J | 0.023 J | 0.008 U | 0.019 J | 0.116 | Unusable R | 0.320 | 0.057 | 0.065 | 0.034 J |

Bold – The analyte was present in the sample.
U – The analyte was not detected at or above the reported value.
UJ – The analyte was not detected at or above the reported estimated value.
J – The analyte was positively identified. The associated value is an estimate.
R – The value is considered unusable.

Table D-2.2
Stormwater Analytical Data for Outfall 235 WY2022 - Grab Samples

| | 3/14/2022 | 4/18/2022 | 5/5/2022 | 5/12/2022 |
|-----------------------------|-------------|-------------|-------------------|---------------|
| TPH | | | | |
| NWTPH-Diesel (mg/L) | 0.10 U | 0.10 UJ | 0.10 U | 0.10 U |
| NWTPH-Heavy Oil (mg/L) | 52 J | 0.42 | 0.49 | 0.33 |
| Bacteria | | | | |
| Coliform, Fecal (CFU/100mL) | 3300 | 7900 | Unusable R | 24000 |
| E. Coli (CFU/100mL) | 3300 | 7900 | Unusable R | 4900 |
| Enterococci (CFU/100mL) | 4300 | 3700 | Unusable R | 350000 |

Bold – The analyte was present in the sample.

U – The analyte was not detected at or above the reported value.

UJ – The analyte was not detected at or above the reported estimated value.

J – The analyte was positively identified. The associated value is an estimate.

R – The value is considered unusable.

E - Exceeds value.

**Table D-3.1
Stormwater Analytical Data for Outfall 237A WY2022 - Composite Samples**

| | Sample 1 11/4/2021 | Sample 2 12/4/2021 | Sample 3 12/18/2021 | Sample 4 3/15/2022 | Sample 5 4/5/2022 | Sample 6 4/20/2022 | Sample 7 4/30/2022 | Sample 8 5/15/2022 |
|------------------------------------|-----------------------|-----------------------|------------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| Conventionals | | | | | | | | |
| Anionic Surfactants - MBAS (ug/L) | 22.6 J | 40.6 J | – | 48.8 | 27.3 | 49.2 | 52.6 | 76.8 |
| BOD (mg/L) | 2.5 | 3.1 | 3.2 | 3.3 | 4.1 | – | 3.1 | 4.4 |
| Chloride (mg/L) | 4.35 | 6.78 | – | 13.8 | 21.8 | 18.6 | 14.3 | 8.18 |
| Conductivity (uS/cm) | 63.0 | 73.3 | 95.5 | 102 | 156 | 177 | 124 | 93.8 |
| Hardness (mg CaCO3/L) | 21.5 | 21.9 | 22.0 | 23.9 | 41.4 | 54.5 | 34.3 | 30.2 |
| pH (pH Units) | 7.0 | 7.3 | 7.1 | 7.0 | 7.4 | 7.1 | 7.2 | 7.0 |
| Total Suspended Solids (mg/L) | 16.8 | 13.1 | 32.8 J | 32.1 | 34.7 | 74.1 | 11.7 | 34.5 |
| Turbidity (NTU) | 14.6 | 10.9 | – | 15.2 | 18.4 | 26.1 | 6.08 | 32.4 J |
| Nutrients | | | | | | | | |
| Nitrate+Nitrite as N (mg/L) | 0.247 | 0.407 | 0.236 | 0.313 | 0.556 | 0.763 | 0.453 | 0.421 |
| Phosphate, Ortho (mg/L) | 0.016 | 0.024 | 0.015 | 0.013 | 0.018 | 0.009 J | 0.009 J | 0.015 |
| Phosphorus, Total (mg/L) | 0.057 | 0.059 | 0.085 | 0.079 | 0.083 | 0.137 | 0.045 | 0.094 |
| Total Nitrogen (mg/L) | 0.40 | 0.64 | 0.61 | 0.42 | 0.84 | 1.18 | 0.75 | 0.90 UJ |
| Metals | | | | | | | | |
| Cadmium (ug/L) | 0.063 U | 0.063 U | 0.076 J | 0.100 J | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Cadmium, Dissolved (ug/L) | 0.040 U | 0.040 U | 0.040 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U |
| Copper (ug/L) | 5.40 | 5.26 | 8.09 | 8.06 | 5.59 | 10.6 | 5.15 | 7.71 |
| Copper, Dissolved (ug/L) | 2.20 | 2.57 | 2.09 | 2.50 | 2.56 | 3.12 | 3.02 | 3.63 |
| Lead (ug/L) | 4.02 | 2.59 | 6.35 | 5.63 | 4.06 | 10.1 | 1.65 | 4.13 |
| Lead, Dissolved (ug/L) | 0.394 | 0.221 | 0.163 | 0.183 | 0.188 | 0.155 | 0.205 | 0.219 |
| Mercury (ug/L) | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0110 J | 0.0080 U | 0.0080 U |
| Mercury, Dissolved (ug/L) | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 9.0 U |
| Zinc (ug/L) | 40.6 | 45.4 | 58.0 | 50.9 | 46.3 | 69.7 | 33.4 | 46.3 |
| Zinc, Dissolved (ug/L) | 22.3 | 29.6 | 25.2 | 20.5 | 28.1 | 23.5 | 23.7 | 22.6 |
| Insecticides | | | | | | | | |
| Bifenthrin (ug/L) | 0.054 | 0.010 U | 0.019 | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| LPAHs | | | | | | | | |
| 2-Methylnaphthalene (ug/L) | 0.016 | 0.018 | 0.017 | 0.010 U | 0.011 | 0.014 | 0.010 U | 0.010 U |
| Acenaphthene (ug/L) | 0.010 U | 0.010 U | 0.009 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Acenaphthylene (ug/L) | 0.015 | 0.009 U | 0.009 U | 0.009 UJ | 0.017 | 0.009 U | 0.009 U | 0.009 U |
| Anthracene (ug/L) | 0.005 U | 0.005 U | 0.005 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U |
| Fluorene (ug/L) | 0.025 | 0.009 U | 0.009 U | 0.010 U | 0.010 U | 0.009 U | 0.010 U | 0.010 U |
| Naphthalene (ug/L) | 0.029 | 0.032 | 0.027 | Unusable R | 0.026 U | 0.026 U | 0.027 UJ | 0.026 U |
| Phenanthrene (ug/L) | 0.070 | 0.025 | 0.063 | 0.043 | 0.037 | 0.058 | 0.020 | 0.024 |
| Total LPAHs | 0.147 | 0.074 | 0.106 | | 0.083 | 0.091 | 0.054 | 0.058 |
| HPAHs | | | | | | | | |
| Benzo(a)anthracene (ug/L) | 0.070 | 0.012 | 0.034 | 0.006 U | 0.026 | 0.038 | 0.010 | 0.015 |
| Benzo(a)pyrene (ug/L) | 0.076 | 0.019 | 0.054 | 0.056 | 0.039 | 0.056 | 0.015 | 0.003 U |
| Benzo(b,k)fluoranthene (ug/L) | 1.14 | 0.052 | 0.137 | 0.142 | 0.098 | 0.138 | 0.032 | 0.070 |
| Benzo(g,h,i)perylene (ug/L) | 0.270 | 0.027 | 0.073 | 0.051 | 0.036 | 0.043 | 0.017 | 0.026 |
| Chrysene (ug/L) | 0.362 | 0.026 | 0.070 | 0.048 | 0.038 | 0.056 | 0.012 | 0.032 |
| Dibenz(a,h)anthracene (ug/L) | 0.305 | 0.006 U | 0.009 J | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U |
| Fluoranthene (ug/L) | 0.286 | 0.039 | 0.127 | 0.086 | 0.068 | 0.110 | 0.025 | 0.043 |
| Indeno(1,2,3-c,d)pyrene (ug/L) | 0.313 | 0.023 | 0.061 | 0.050 | 0.040 | 0.044 | 0.015 | 0.025 |
| Pyrene (ug/L) | 0.221 | 0.044 | 0.133 | 0.105 | 0.080 | 0.116 | 0.034 | 0.053 |
| Retene | 0.222 | 0.025 | 0.012 | 0.014 | 0.006 J | 0.010 | 0.005 U | 0.008 J |
| Total HPAHs | 3.043 | 0.245 | 0.698 | 0.544 | 0.428 | 0.604 | 0.163 | 0.269 |
| TOTAL PAHs | 3.190 | 0.32 | 0.804 | | 0.511 | 0.695 | 0.22 | 0.326 |
| Phthalates | | | | | | | | |
| Bis(2-ethylhexyl) phthalate (ug/L) | 1.32 | 0.852 J | 1.41 | 1.86 | 0.930 J | 1.48 | 0.843 J | 1.36 J |
| Butyl benzyl phthalate (ug/L) | 0.540 J | 0.405 U | 0.398 U | 0.408 U | 0.414 U | 0.405 U | 0.418 U | 0.409 U |
| Diethyl phthalate (ug/L) | 0.317 U | 0.313 U | 0.308 U | 0.316 U | 0.321 U | 0.313 U | 0.324 U | 0.317 U |
| Dimethyl phthalate (ug/L) | 0.344 U | 0.341 U | 0.335 U | 0.344 UJ | 0.349 U | 0.341 U | 0.352 U | 0.345 U |
| Di-n-butyl phthalate (ug/L) | 0.517 J | 0.295 U | 0.412 J | 0.462 J | 0.302 U | 0.525 J | 0.384 J | 0.298 U |
| Di-n-octyl phthalate (ug/L) | 0.756 J | 0.361 U | 0.355 U | 0.364 U | 0.370 U | 0.361 U | 0.373 U | 0.365 U |
| Total Phthalates | 3.13 | 0.85 | 1.822 | 2.32 | 0.93 | 2.01 | 1.23 | 1.36 |
| Herbicides | | | | | | | | |
| Dichlobenil (ug/L) | 0.029 J | 0.021 J | 0.021 J | Unusable R | 0.113 | 0.073 | 0.059 | 0.064 |

Bold – The analyte was present in the sample.
U – The analyte was not detected at or above the reported value.
UJ – The analyte was not detected at or above the reported estimated value.
J – The analyte was positively identified. The associated value is an estimate.
R – The value is considered unusable.
E - Exceeds value.

Table D-3.2
Stormwater Analytical Data for Outfall 237A WY2022 - Grab Samples

| | 3/14/2022 | 4/18/2022 | 5/5/2022 | 5/12/2022 |
|-----------------------------|-------------|--------------|-------------|-------------|
| TPH | | | | |
| NWTPH-Diesel (mg/L) | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| NWTPH-Heavy Oil (mg/L) | 0.62 | 0.53 | 0.50 | 0.24 |
| Bacteria | | | | |
| Coliform, Fecal (CFU/100mL) | 1700 | 14000 | 7900 | 3300 |
| E. Coli (CFU/100mL) | 1100 | 14000 | 4900 | 2300 |
| Enterococci (CFU/100mL) | 3400 | 4500 | 4400 | 9500 |

Bold – The analyte was present in the sample.

U – The analyte was not detected at or above the reported value.

UJ – The analyte was not detected at or above the reported estimated value.

J – The analyte was positively identified. The associated value is an estimate.

R – The value is considered unusable.

E - Exceeds value.

Table D-4.1

Stormwater Analytical Data for Outfall 237B WY2022 - Composite Samples

| | Sample 1 10/22/2021 | Sample 2 11/4/2021 | Sample 3 11/19/2021 | Sample 4 12/4/2021 | Sample 5 12/19/2021 | Sample 6 1/20/2022 | Sample 7 3/1/2022 | Sample 8 3/15/2022 | Sample 9 4/4/2022 | Sample 10 4/20/2022 | Sample 11 5/15/2022 |
|------------------------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|----------------------|-----------------------|----------------------|------------------------|------------------------|
| Conventionals | | | | | | | | | | | |
| Anionic Surfactants - MBAS (ug/L) | – | 25.0 | 35.6 | 34.1 | 30.7 | – | 53.1 | 66.7 | 29.4 | – | 57.80 |
| BOD (mg/L) | – | 2.5 | 2.9 | 2.4 | 2.2 | – | 2.2 | 2.2 | 4.4 | – | 2.6 |
| Chloride (mg/L) | – | 3.64 | 4.58 | 4.80 | 6.38 | – | 5.3 | 7.14 | 7.58 | – | 4.6 |
| Conductivity (uS/cm) | 122 | 105 | 108 | 121 | 131 | 173 | 98.1 | 140 | 125 | 203 | 123 |
| Hardness (mg CaCO3/L) | 46.8 | 42.1 | 41.7 | 47.3 | 49.1 | 65.3 | 35.8 | 53.6 | 48.4 | 83.0 | 50.4 |
| pH (pH Units) | 7.0 | 7.1 | 6.9 | 7.1 | 7.1 | 7.1 | 6.9 | 7.2 | 7.3 | 7.3 | 7.2 |
| Total Suspended Solids (mg/L) | 19.9 | 20.5 | 8.20 | 8.90 | 31.5 | J | – | 31.6 | 21.3 | 25.6 | 10.8 |
| Turbidity (NTU) | – | 15.2 | 10.8 | 11.2 | 24.8 | – | – | 18.2 | 12.3 | 18.7 | – |
| Nutrients | | | | | | | | | | | |
| Nitrate+Nitrite as N (mg/L) | 1.09 | 0.967 | 0.902 | 1.02 | 1.07 | – | 0.963 | 1.22 | 1.01 | 1.85 | 1.22 |
| Phosphate, Ortho (mg/L) | 0.034 | 0.019 | 0.026 | 0.026 | 0.017 | – | 0.021 | 0.018 | 0.016 | 0.015 | 0.014 |
| Phosphorus, Total (mg/L) | 0.088 | 0.072 | 0.074 | 0.062 | 0.088 | – | 0.101 | 0.073 | 0.102 | 0.048 | 0.047 |
| Total Nitrogen (mg/L) | 1.17 | 1.02 | 0.97 | 1.18 | 1.38 | – | 1.45 | 1.29 | 1.15 | 2.28 | 1.40 |
| Metals | | | | | | | | | | | |
| Cadmium (ug/L) | 0.063 U | 0.063 U | 0.063 U | 0.063 U | 0.063 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Cadmium, Dissolved (ug/L) | 0.040 U | 0.040 U | 0.040 U | 0.040 U | 0.040 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U | 0.045 U |
| Copper (ug/L) | 4.08 | 5.06 | 4.27 | 3.75 | 5.40 | 4.87 | 6.57 | 5.35 | 6.18 | 3.10 | 5.23 |
| Copper, Dissolved (ug/L) | 2.11 | 1.93 | 2.05 | 2.03 | 1.74 | 1.72 | 2.57 | 1.96 | 2.54 | 1.61 | 2.66 |
| Lead (ug/L) | 2.12 | 3.54 | 2.08 | 1.79 | 4.60 | 3.03 | 4.37 | 3.63 | 4.24 | 1.40 | 3.15 |
| Lead, Dissolved (ug/L) | 0.279 | 0.315 | 0.273 | 0.204 | 0.180 | 0.232 | 0.225 | 0.252 | 0.246 | 0.059 | J 0.245 |
| Mercury (ug/L) | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U |
| Mercury, Dissolved (ug/L) | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U |
| Zinc (ug/L) | 21.9 | 28.7 | 28.9 | 23.8 | 30.6 | 42.4 | 32.2 | 26.2 | 38.5 | 16.2 | 36.9 |
| Zinc, Dissolved (ug/L) | 12.0 | 14.3 | 17.3 | 15.4 | 12.8 | 24.2 | 13.0 | 10.9 | 16.6 | 8.21 | 20.8 |
| Insecticides | | | | | | | | | | | |
| Bifenthrin (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| LPAHs | | | | | | | | | | | |
| 2-Methylnaphthalene (ug/L) | 0.010 U | 0.011 | 0.012 | 0.010 U | 0.045 | 0.011 | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Acenaphthene (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.009 U | 0.009 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Acenaphthylene (ug/L) | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.017 | 0.009 U | 0.009 U |
| Anthracene (ug/L) | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U |
| Fluorene (ug/L) | 0.010 U | 0.010 U | 0.009 U | 0.010 U | 0.009 U | 0.009 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Naphthalene (ug/L) | 0.016 U | 0.024 J | 0.021 J | 0.017 J | 0.041 | 0.015 U | 0.026 U | Unusable R | 0.027 U | 0.026 U | 0.026 U |
| Phenanthrene (ug/L) | 0.013 J | 0.019 | 0.007 U | 0.015 J | 0.021 | 0.012 J | 0.017 U | 0.017 U | 0.021 | 0.017 U | 0.017 U |
| Total LPAHs | 0.038 | 0.06 | 0.041 | 0.049 | 0.078 | 0.036 | 0.042 | | 0.068 | 0.042 | 0.042 |
| HPAHs | | | | | | | | | | | |
| Benzo(a)anthracene (ug/L) | 0.006 U | 0.007 J | 0.006 U | 0.006 U | 0.008 J | 0.006 U | 0.011 | 0.006 U | 0.020 | 0.006 U | 0.006 U |
| Benzo(a)pyrene (ug/L) | 0.004 J | 0.011 | 0.007 J | 0.006 J | 0.013 | 0.009 J | 0.014 | 0.017 | 0.021 | 0.003 U | 0.003 U |
| Benzo(b,k)fluoranthene (ug/L) | 0.013 J | 0.031 | 0.021 J | 0.019 J | 0.031 | 0.027 U | 0.048 | 0.037 | 0.074 | 0.023 J | 0.022 J |
| Benzo(g,h,i)perylene (ug/L) | 0.008 J | 0.016 | 0.012 | 0.012 | 0.019 | 0.016 | 0.014 | 0.015 | 0.030 | 0.008 J | 0.009 J |
| Chrysene (ug/L) | 0.008 U | 0.019 | 0.012 | 0.010 | 0.018 | 0.015 | 0.022 | 0.012 | 0.031 | 0.008 U | 0.008 U |
| Dibenz(a,h)anthracene (ug/L) | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.016 | 0.006 U | 0.006 U |
| Fluoranthene (ug/L) | 0.013 | 0.028 | 0.017 | 0.015 | 0.028 | 0.019 | 0.043 | 0.024 | 0.038 | 0.014 | 0.023 |
| Indeno(1,2,3-c,d)pyrene (ug/L) | 0.005 U | 0.011 | 0.009 J | 0.008 J | 0.013 | 0.011 | 0.011 | 0.016 | 0.029 | 0.007 J | 0.005 U |
| Pyrene (ug/L) | 0.017 | 0.032 | 0.021 | 0.020 | 0.040 | 0.037 | 0.046 | 0.037 | 0.046 | 0.021 | 0.029 |
| Retene (ug/L) | 0.007 J | 0.007 J | 0.008 J | 0.008 J | 0.005 U | 0.008 J | 0.005 U | 0.008 J | 0.007 J | 0.005 U | 0.005 U |
| Total HPAHs | 0.0675 | 0.158 | 0.105 | 0.096 | 0.173 | 0.14 | 0.212 | 0.164 | 0.305 | 0.0845 | 0.097 |
| TOTAL PAHs | 0.106 | 0.218 | 0.146 | 0.145 | 0.251 | 0.176 | 0.254 | | 0.373 | 0.127 | 0.139 |
| Phthalates | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate (ug/L) | 0.879 J | 0.890 J | 0.578 J | 0.673 J | 0.657 J | 0.729 J | 0.767 J | 1.18 | 1.03 | 0.741 J | 0.933 J |
| Butyl benzyl phthalate (ug/L) | 0.409 U | 0.409 U | 0.406 U | 0.409 U | 0.401 U | 0.397 U | 0.412 U | 0.410 U | 0.418 U | 0.411 U | 0.409 U |
| Diethyl phthalate (ug/L) | 0.317 U | 0.317 U | 0.314 U | 0.317 U | 0.310 U | 0.308 U | 0.319 U | 0.318 U | 0.324 U | 0.319 U | 0.317 U |
| Dimethyl phthalate (ug/L) | 0.344 U | 0.344 U | 0.342 U | 0.345 U | 0.338 U | 0.335 U | 0.347 U | 0.346 U | 0.352 U | 0.347 U | 0.345 U |
| Di-n-butyl phthalate (ug/L) | 0.361 J | 0.298 U | 0.349 J | 0.361 J | 0.321 J | 0.487 J | 0.301 J | 0.299 U | 0.305 U | 0.336 J | 0.299 U |
| Di-n-octyl phthalate (ug/L) | 0.365 U | 0.365 U | 0.362 U | 0.366 U | 0.358 U | 0.355 U | 0.368 U | 0.366 U | 0.373 U | 0.367 U | 0.366 U |
| Total Phthalates | 1.240 | 0.890 | 0.927 | 1.034 | 0.978 | 1.216 | 1.07 | 1.180 | 1.03 | 1.08 | 0.93 |
| Herbicides | | | | | | | | | | | |
| Dichlobenil (ug/L) | 0.039 J | 0.066 | 0.031 J | 0.018 J | 0.027 J | 0.012 J | 0.090 | Unusable R | 0.106 | 0.049 J | 0.037 J |

Bold – The analyte was present in the sample.
 U – The analyte was not detected at or above the reported value.
 UJ – The analyte was not detected at or above the reported estimated value.
 J – The analyte was positively identified. The associated value is an estimate.
 R – The value is considered unusable.
 E - Exceeds value.

Table D-4.2
Stormwater Analytical Data for Outfall 237B WY2022 - Grab Samples

| | 3/14/2022 | 4/18/2022 | 5/5/2022 | 5/12/2022 |
|-----------------------------|-------------|-------------|--------------|-------------|
| TPH | | | | |
| NWTPH-Diesel (mg/L) | 0.10 U | 0.10 UJ | 0.10 U | 0.10 U |
| NWTPH-Heavy Oil (mg/L) | 0.73 | 0.49 | 0.89 | 0.28 |
| Bacteria | | | | |
| Coliform, Fecal (CFU/100mL) | 790 | 2400 | 1400 | Unusable R |
| E. Coli (CFU/100mL) | 3500 | 1300 | 1100 | Unusable R |
| Enterococci (CFU/100mL) | 790 | 7200 | 11000 | 3100 |

Bold – The analyte was present in the sample.

U – The analyte was not detected at or above the reported value.

UJ – The analyte was not detected at or above the reported estimated value.

J – The analyte was positively identified. The associated value is an estimate.

Table D-5.1
Stormwater Analytical Data for Outfall 243 WY2022 - Composite Samples

| | Sample 1 10/22/2021 | Sample 2 11/4/2021 | Sample 3 12/5/2021 | Sample 4 3/15/2022 | Sample 5 4/4/2022 | Sample 6 5/5/2022 | Sample 7 6/9/2022 |
|------------------------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
| Conventionals | | | | | | | |
| Anionic Surfactants - MBAS (ug/L) | 53.4 | 28.2 | 43.0 | 45.7 | 30.2 | 50.3 | 50.5 |
| BOD (mg/L) | 3.7 | 2.4 | 2.0 U | 2.0 U | 4.8 | 2.7 | 2.4 |
| Chloride (mg/L) | 1520 | 1590 | 1440 | 627 | 2560 | 1780 | 928 |
| Conductivity (uS/cm) | 4930 | 5280 | 4850 | 2260 | 7870 | 6210 | 5720 |
| Hardness (mg CaCO3/L) | 482 | 519 | 508 | 232 | 766 | 640 | 602 |
| pH (pH Units) | 7.3 | 7.0 | 7.2 | 7.1 | 7.1 | 7.4 | 7.2 |
| Total Suspended Solids (mg/L) | 38.2 | 27.1 | 9.20 | 12.4 | 37.4 | 37.0 | 41.7 |
| Turbidity (NTU) | 33.9 | 31.7 | 11.4 | 18.1 | 34.5 | 47.2 | 35.5 |
| Nutrients | | | | | | | |
| Nitrate+Nitrite as N (mg/L) | 0.395 | 0.225 | 0.213 | 0.197 | 0.185 | 0.160 | 0.198 |
| Phosphate, Ortho (mg/L) | 0.033 | 0.026 | 0.029 | 0.031 | 0.016 | 0.032 | 0.032 |
| Phosphorus, Total (mg/L) | 0.583 | 0.247 | 0.143 | 0.107 | 0.179 | 0.172 | 0.280 |
| Total Nitrogen (mg/L) | 0.81 | 0.40 | 0.55 | 0.44 | 0.40 | 1.30 J | 0.63 |
| Metals | | | | | | | |
| Cadmium (ug/L) | 0.346 J | 0.230 J | 0.097 J | 0.179 J | 0.161 J | 0.156 J | 0.295 J |
| Cadmium, Dissolved (ug/L) | 0.057 J | 0.091 J | 0.070 J | 0.071 J | 0.050 J | 0.126 UJ | 0.086 J |
| Copper (ug/L) | 17.2 | 13.0 | 6.86 | 10.4 | 13.5 | 17.1 | 20.2 |
| Copper, Dissolved (ug/L) | 4.12 | 4.50 | 2.98 | 4.33 | 3.20 | 4.43 | 4.57 |
| Lead (ug/L) | 12.6 | 9.27 | 2.41 | 3.69 | 9.82 | 9.10 | 14.5 |
| Lead, Dissolved (ug/L) | 0.282 | 0.411 | 0.124 | 0.275 | 0.199 | 0.407 | 0.338 |
| Mercury (ug/L) | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U |
| Mercury, Dissolved (ug/L) | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U |
| Zinc (ug/L) | 57.1 | 48.2 | 28.3 | 39.5 | 42.6 | 50.9 | 59.7 |
| Zinc, Dissolved (ug/L) | 18.4 | 23.7 | 20.4 | 21.0 | 16.3 | 18.1 | 17.9 |
| Insecticides | | | | | | | |
| Bifenthrin (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| LPAHs | | | | | | | |
| 2-Methylnaphthalene (ug/L) | 0.010 U | 0.015 | 0.011 | 0.010 U | 0.022 | 0.010 U | 0.013 |
| Acenaphthene (ug/L) | 0.026 | 0.022 | 0.039 | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Acenaphthylene (ug/L) | 0.009 U | 0.009 U | 0.009 U | 0.009 UJ | 0.021 | 0.009 U | 0.009 U |
| Anthracene (ug/L) | 0.065 | 0.035 | 0.042 | 0.037 | 0.017 | 0.024 | 0.030 |
| Fluorene (ug/L) | 0.010 U | 0.014 | 0.009 U | 0.010 U | 0.011 | 0.010 U | 0.009 U |
| Naphthalene (ug/L) | 0.025 J | 0.029 | 0.018 J | Unusable R | 0.026 U | 0.026 U | 0.026 U |
| Phenanthrene (ug/L) | 0.037 | 0.024 | 0.012 J | 0.020 | 0.028 | 0.018 | 0.031 |
| Total LPAHs | 0.163 | 0.129 | 0.120 | | 0.095 | 0.070 | 0.088 |
| HPAHs | | | | | | | |
| Benzo(a)anthracene (ug/L) | 0.013 | 0.011 | 0.006 U | 0.006 U | 0.018 | 0.009 J | 0.019 |
| Benzo(a)pyrene (ug/L) | 0.016 | 0.014 | 0.004 J | 0.014 | 0.025 | 0.003 U | 0.003 U |
| Benzo(b,k)fluoranthene (ug/L) | 0.044 | 0.035 | 0.012 J | 0.035 | 0.051 | 0.031 | 0.062 UJ |
| Benzo(g,h,i)perylene (ug/L) | 0.017 | 0.015 | 0.006 J | 0.012 | 0.018 | 0.009 J | 0.017 |
| Chrysene (ug/L) | 0.032 | 0.019 | 0.008 U | 0.013 | 0.024 | 0.016 | 0.021 UJ |
| Dibenz(a,h)anthracene (ug/L) | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U |
| Fluoranthene (ug/L) | 0.044 | 0.036 | 0.017 | 0.029 | 0.040 | 0.027 | 0.051 UJ |
| Indeno(1,2,3-c,d)pyrene (ug/L) | 0.016 | 0.013 | 0.005 U | 0.014 | 0.020 | 0.010 | 0.018 |
| Pyrene (ug/L) | 0.046 | 0.037 | 0.023 | 0.039 | 0.051 | 0.033 | 0.052 UJ |
| Retene (ug/L) | 0.014 | 0.007 J | 0.005 U | 0.010 | 0.010 | 0.008 J | 0.009 J |
| Total HPAHs | 0.231 | 0.183 | 0.0745 | 0.162 | 0.250 | 0.1395 | 0.152 |
| TOTAL PAHs | 0.394 | 0.3115 | 0.195 | | 0.345 | 0.209 | 0.333 |
| Phthalates | | | | | | | |
| Bis(2-ethylhexyl) phthalate (ug/L) | 0.814 J | 0.365 J | 0.556 J | 1.21 | 0.539 J | 0.662 UJ | 0.681 J |
| Butyl benzyl phthalate (ug/L) | 0.413 U | 0.407 U | 0.406 U | 0.408 U | 0.413 U | 0.409 U | 0.403 U |
| Diethyl phthalate (ug/L) | 1.10 | 0.771 J | 0.668 J | 0.496 J | 0.377 J | 0.516 J | 0.494 J |
| Dimethyl phthalate (ug/L) | 0.348 U | 0.343 U | 0.342 U | 0.344 UJ | 0.348 U | 0.345 U | 0.340 U |
| Di-n-butyl phthalate (ug/L) | 0.302 U | 0.297 U | 0.351 J | 0.298 U | 0.301 U | 0.329 J | 0.294 U |
| Di-n-octyl phthalate (ug/L) | 0.369 U | 0.363 U | 0.362 U | 0.364 U | 0.369 U | 0.365 U | 0.360 U |
| Total Phthalates | 1.91 | 1.136 | 1.575 | 1.71 | 0.916 | 1.507 | 1.175 |
| Herbicides | | | | | | | |
| Dichlobenil (ug/L) | 0.014 J | 0.011 J | 0.010 J | Unusable R | 0.031 J | 0.020 U | 0.020 U |

Bold – The analyte was present in the sample.
U – The analyte was not detected at or above the reported value.
UJ – The analyte was not detected at or above the reported estimated value.
J – The analyte was positively identified. The associated value is an estimate.
R – The value is considered unusable.
E - Exceeds value.

Table D-5.2

Stormwater Analytical Data for Outfall 243 WY2022 - Grab Samples

| | 3/14/2022 | 4/18/2022 | 5/5/2022 | 5/12/2022 |
|-----------------------------|-------------|--------------|--------------|-------------|
| TPH | | | | |
| NWTPH-Diesel (mg/L) | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| NWTPH-Heavy Oil (mg/L) | 0.41 | 0.20 | 0.37 | 0.40 |
| Bacteria | | | | |
| Coliform, Fecal (CFU/100mL) | 2400 | 16000 | 49000 | 4900 |
| E. Coli (CFU/100mL) | 1300 | 250 | 3300 | 130 |
| Enterococci (CFU/100mL) | 5000 | 4600 | 12000 | 3000 |

Bold – The analyte was present in the sample.

U – The analyte was not detected at or above the reported value.

UJ – The analyte was not detected at or above the reported estimated value.

J – The analyte was positively identified. The associated value is an estimate.

R – The value is considered unusable.

E - Exceeds value.

**Table D-6.1
Stormwater Analytical Data for Outfall 245 WY2022 - Composite Samples**

| | Sample 1 10/22/2021 | Sample 2 11/4/2021 | Sample 3 11/19/2021 | Sample 4 - Rejected 12/4/2021 | Sample 5 12/18/2021 | Sample 6 1/20/2022 | Sample 7 2/28/2022 | Sample 8 3/15/2022 | Sample 9 4/4/2022 | Sample 10 4/20/2022 | Sample 11 5/5/2022 | Sample 12 6/9/2022 |
|------------------------------------|------------------------|-----------------------|------------------------|----------------------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------|-----------------------|-----------------------|
| Conventionals | | | | | | | | | | | | |
| Anionic Surfactants - MBAS (ug/L) | 64.3 | 29.0 | 39.0 | - | 38.3 | - | 65.9 J | 51.9 | 37.6 | 61.6 | - | 51.3 |
| BOD (mg/L) | 3.4 | 2.0 U | 2.7 | - | 2.1 | - | 2.1 J | 2.0 U | 3.1 | 3.6 | - | 2.4 |
| Chloride (mg/L) | 175 | 100 | 40.9 | - | 122 | - | 86.0 | 99.1 J | 73.3 J | 210 | - | 12.6 |
| Conductivity (uS/cm) | 712 | 427 | 201 | 2480 | 547 | 1530 | 378 | 417 | 280 | 913 | 351 | 76.5 |
| Hardness (mg CaCO3/L) | 70.2 | 48.3 | 33.6 | 262 | 70.3 | 174 | 42.0 | 52.0 | 37.1 | 109 | 56.1 | 14.6 |
| pH (pH Units) | 7.1 | 7.0 | 6.6 | 7.4 | 7.0 | 7.6 | 6.7 | 7.1 | 7.1 | 7.1 | 7.5 | 8.0 |
| Total Suspended Solids (mg/L) | 22.1 | 13.7 | 10.5 | 8.68 | 16.4 J | - | 18.8 | 23.9 | 33.8 | 31.6 | 41.2 | 18.1 |
| Turbidity (NTU) | 26.1 | 20.9 | 11.8 | - | 20.5 | - | Unusable R | 17.3 | 25.4 | 36.7 | - | 15.8 |
| Nutrients | | | | | | | | | | | | |
| Nitrate+Nitrite as N (mg/L) | 0.147 | 0.064 | 0.087 | - | 0.102 | - | 0.109 | 0.078 | 0.075 | 0.142 | 0.094 | 0.077 |
| Phosphate, Ortho (mg/L) | 0.043 | 0.003 U | 0.025 | 0.038 | 0.025 | - | 0.035 | 0.020 | 0.021 | 0.030 | 0.032 | 0.021 |
| Phosphorus, Total (mg/L) | 0.108 | 0.067 | 0.065 | - | 0.086 | - | 0.115 | 0.095 | 0.142 | 0.123 | 0.128 | 0.072 |
| Total Nitrogen (mg/L) | 0.47 | 0.29 | 0.26 | - | 0.59 | - | 0.42 | 0.30 | 0.39 | 0.67 | 1.94 J | 0.30 |
| Metals | | | | | | | | | | | | |
| Cadmium (ug/L) | 0.092 J | 0.071 J | 0.081 J | 0.067 J | 0.096 J | 0.173 J | 0.130 J | 0.101 J | 0.167 J | 0.100 U | 0.130 J | 0.160 J |
| Cadmium, Dissolved (ug/L) | 0.041 J | 0.040 U | 0.040 U | 0.053 J | 0.040 U | 0.111 J | 0.075 J | 0.046 J | 0.061 J | 0.045 U | 0.072 UJ | 0.096 J |
| Copper (ug/L) | 7.39 | 4.99 | 4.52 | 3.90 | 5.71 | 8.09 | 6.41 | 6.06 | 7.98 | 11.4 | 13.9 | 6.64 |
| Copper, Dissolved (ug/L) | 2.53 | 0.229 | 1.43 | 1.82 | 1.62 | 3.13 | 2.35 | 1.97 | 2.73 | 3.82 | 4.48 | 3.04 |
| Lead (ug/L) | 2.45 | 1.64 | 1.10 | 0.838 | 1.90 | 1.85 | 1.99 | 2.21 | 2.48 | 2.86 | 3.50 | 1.92 |
| Lead, Dissolved (ug/L) | 0.118 | 0.107 U | 0.111 | 0.107 U | 0.107 U | 0.102 | 0.102 | 0.141 | 0.088 J | 0.094 J | 0.249 | 0.198 |
| Mercury (ug/L) | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U |
| Mercury, Dissolved (ug/L) | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U |
| Zinc (ug/L) | 46.4 | 35.8 | 36.0 | 29.7 | 41.8 | 56.1 | 43.1 | 42.3 | 54.0 | 54.7 | 58.8 | 47.7 |
| Zinc, Dissolved (ug/L) | 20.2 | 2.61 | 21.2 | 21.1 | 19.3 | 29.3 | 22.4 | 19.1 | 25.7 | 22.2 | 19.0 | 25.0 |
| Insecticides | | | | | | | | | | | | |
| Bifenthrin (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| LPAHs | | | | | | | | | | | | |
| 2-Methylnaphthalene (ug/L) | 0.010 | 0.011 | 0.041 | 0.010 U | 0.009 U | 0.012 | 0.040 J | 0.010 U | 0.010 U | 0.010 U | 0.011 | 0.010 |
| Acenaphthene (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.014 | 0.010 | 0.009 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.009 U | 0.010 U |
| Acenaphthylene (ug/L) | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 UJ | 0.014 | 0.009 U | 0.009 U | 0.009 U |
| Anthracene (ug/L) | 0.005 U | 0.005 U | 0.005 U | 0.006 J | 0.005 U | 0.011 J | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U |
| Fluorene (ug/L) | 0.009 U | 0.011 | 0.010 U | 0.010 U | 0.009 U | 0.009 U | 0.010 | 0.010 U | 0.010 U | 0.010 U | 0.009 U | 0.009 U |
| Naphthalene (ug/L) | 0.027 | 0.039 | 0.092 | 0.022 J | 0.016 | 0.026 | 0.113 J | Unusable R | 0.027 U | 0.026 U | 0.026 U | 0.026 U |
| Phenanthrene (ug/L) | 0.030 | 0.020 | 0.017 | 0.014 J | 0.007 U | 0.027 | 0.024 | 0.017 U | 0.021 | 0.019 | 0.037 | 0.017 U |
| Total LPAHs | 0.0735 | 0.082 | 0.126 | 0.0655 | 0.041 | 0.0775 | 0.1625 | | 0.0645 | 0.053 | 0.0695 | 0.0415 |
| HPAHs | | | | | | | | | | | | |
| Benzo(a)anthracene (ug/L) | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.029 U | 0.006 U |
| Benzo(a)pyrene (ug/L) | 0.004 J | 0.005 J | 0.004 J | 0.007 J | 0.008 J | 0.012 | 0.005 J | 0.003 U | 0.007 J | 0.003 U | 0.033 | 0.003 U |
| Benzo(b,k)fluoranthene (ug/L) | 0.018 J | 0.012 J | 0.014 J | 0.015 J | 0.015 J | 0.015 U | 0.015 J | 0.021 J | 0.027 J | 0.022 J | 0.053 U | 0.011 U |
| Benzo(g,h,i)perylene (ug/L) | 0.015 | 0.011 | 0.011 | 0.008 J | 0.013 | 0.012 | 0.008 J | 0.012 | 0.012 | 0.011 J | 0.025 U | 0.013 |
| Chrysene (ug/L) | 0.011 | 0.008 U | 0.008 U | 0.008 U | 0.015 | 0.015 | 0.010 | 0.008 U | 0.017 | 0.012 | 0.042 | 0.011 UJ |
| Dibenz(a,h)anthracene (ug/L) | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.006 U | 0.031 U | 0.006 U |
| Fluoranthene (ug/L) | 0.022 | 0.018 | 0.016 | 0.012 | 0.019 | 0.022 | 0.020 | 0.021 | 0.026 | 0.023 | 0.076 | 0.021 UJ |
| Indeno(1,2,3-c,d)pyrene (ug/L) | 0.005 U | 0.005 U | 0.006 J | 0.006 J | 0.006 J | 0.006 J | 0.005 U | 0.010 | 0.010 | 0.005 U | 0.024 U | 0.006 J |
| Pyrene (ug/L) | 0.027 | 0.025 | 0.026 | 0.017 | 0.028 | 0.034 | 0.030 | 0.037 | 0.035 | 0.036 | 0.113 | 0.029 UJ |
| Retene (ug/L) | 0.012 | 0.007 J | 0.012 | 0.010 | 0.009 J | 0.012 | 0.007 J | 0.009 J | 0.005 U | 0.008 J | 0.016 | 0.007 J |
| Total HPAHs | 0.106 | 0.084 | 0.087 | 0.075 | 0.110 | 0.115 | 0.0965 | 0.113 | 0.140 | 0.114 | 0.345 | 0.063 |
| TOTAL PAHs | 0.179 | 0.166 | 0.213 | 0.141 | 0.151 | 0.192 | 0.259 | | 0.205 | 0.167 | 0.415 | 0.104 |
| Phthalates | | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate (ug/L) | 1.04 | 0.786 J | 0.906 J | 0.616 J | 0.740 J | 0.837 J | 0.951 J | 1.41 | 1.06 | 0.951 J | 1.30 UJ | 1.13 |
| Butyl benzyl phthalate (ug/L) | 0.405 U | 0.412 U | 0.409 U | 0.407 U | 0.402 U | 0.399 U | 0.405 U | 0.409 U | 0.414 U | 0.411 U | 0.403 U | 0.403 U |
| Diethyl phthalate (ug/L) | 0.314 U | 0.319 U | 0.317 U | 0.316 U | 0.311 U | 0.309 U | 0.314 U | 0.317 U | 0.321 U | 0.318 U | 0.312 U | 0.312 U |
| Dimethyl phthalate (ug/L) | 0.341 U | 0.347 U | 0.344 U | 0.343 U | 0.338 U | 0.336 U | 0.342 U | 0.345 UJ | 0.349 U | 0.347 U | 0.340 U | 0.349 J |
| Di-n-butyl phthalate (ug/L) | 1.560 | 0.995 | 1.65 | 1.50 | 1.37 | 1.40 | 1.50 | 1.21 | 1.34 | 0.973 J | 0.458 J | 0.853 J |
| Di-n-octyl phthalate (ug/L) | 0.362 U | 0.368 U | 0.365 U | 0.364 U | 0.359 U | 0.356 U | 0.362 U | 0.365 U | 0.370 U | 0.367 U | 1.80 U | 0.360 U |
| Total Phthalates | 2.60 | 1.781 | 2.56 | 2.12 | 2.11 | 2.24 | 2.45 | 2.62 | 2.556 | 2.56 | 0.458 | 2.332 |
| Herbicides | | | | | | | | | | | | |
| Dichlobenil (ug/L) | 0.017 J | 0.010 J | 0.008 U | 0.016 J | 0.009 J | 0.019 J | 0.033 J | Unusable R | 0.021 U | 0.022 J | 0.025 J | 0.022 J |

Bold – The analyte was present in the sample.
U – The analyte was not detected at or above the reported value.
UJ – The analyte was not detected at or above the reported estimated value.
J – The analyte was positively identified. The associated value is an estimate.
R – The value is considered unusable.
E - Exceeds value.

Table D-6.2

Stormwater Analytical Data for Outfall 245 WY2022 - Grab Samples

| | 3/14/2022 | 4/18/2022 | 5/5/2022 | 5/12/2022 |
|-----------------------------|-------------|--------------|--------------|---------------|
| TPH | | | | |
| NWTPH-Diesel (mg/L) | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| NWTPH-Heavy Oil (mg/L) | 0.29 | 0.36 | 0.35 | 0.20 |
| Bacteria | | | | |
| Coliform, Fecal (CFU/100mL) | 5400 | 16000 | 11000 | 110000 |
| E. Coli (CFU/100mL) | 1700 | 3500 | 11000 | 5 |
| Enterococci (CFU/100mL) | 3900 | 1500 | 48000 | 49000 |

Bold – The analyte was present in the sample.

U – The analyte was not detected at or above the reported value.

UJ – The analyte was not detected at or above the reported estimated value.

J – The analyte was positively identified. The associated value is an estimate.

R – The value is considered unusable.

E - Exceeds value.

**Table D-7.1
Stormwater Analytical Data for Outfall 254 WY2022 - Composite Samples**

| | Sample 1 10/22/2021 | Sample 2 11/4/2021 | Sample 3 12/4/2021 | Sample 4 1/20/2022 | Sample 5 2/21/2022 | Sample 6 3/14/2022 | Sample 7 4/4/2022 | Sample 8 5/5/2022 | Sample 9 6/9/2022 |
|------------------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
| Conventionals | | | | | | | | | |
| Anionic Surfactants - MBAS (ug/L) | 70.4 | 47.7 | – | – | 59.4 J | 80.6 J | 45.8 | 95.6 | 110 |
| BOD (mg/L) | 2.0 | 2.1 | – | – | 2.0 UJ | 2.0 J | 2.4 | – | 2.6 |
| Chloride (mg/L) | 3200 J | 1690 | – | – | 8000 | 1860 | 1440 | 1650 | 705 |
| Conductivity (uS/cm) | 9920 | 5480 | 12000 | 10500 | 23000 | 5410 | 4860 | 5530 | 2710 |
| Hardness (mg CaCO3/L) | 964 | 529 | 1360 | 1110 | 2380 | 520 | 469 | 542 | 258 |
| pH (pH Units) | 7.2 | 6.9 | 7.1 | 7.5 | 7.1 | 6.9 | 7.1 | 7.2 | 7.1 |
| Total Suspended Solids (mg/L) | 34.7 | 44.3 | 30.4 | 56.8 | 12.7 | 83.2 | 43.4 | 98.3 | 68.9 |
| Turbidity (NTU) | 30.4 | 52.9 | – | – | 22.3 J | 74.9 J | 42.8 | 135 | 62.6 |
| Nutrients | | | | | | | | | |
| Nitrate+Nitrite as N (mg/L) | 0.113 | 0.096 | – | – | 0.173 | 0.099 | 0.078 | 0.088 | 0.090 |
| Phosphate, Ortho (mg/L) | 0.021 | 0.010 | 0.025 | – | 0.097 | 0.016 | 0.012 | 0.017 | 0.012 |
| Phosphorus, Total (mg/L) | 0.097 | 0.085 | – | – | 0.073 | 0.115 | 0.098 | 0.150 | 0.121 |
| Total Nitrogen (mg/L) | 0.31 | 0.30 | – | – | 0.65 | 0.30 | 0.25 | 0.45 UJ | 0.40 |
| Metals | | | | | | | | | |
| Cadmium (ug/L) | 0.077 J | 0.108 J | 0.088 J | 0.192 J | 0.200 U | 0.130 J | 0.130 J | 0.158 J | 0.130 J |
| Cadmium, Dissolved (ug/L) | 0.057 J | 0.056 J | 0.087 J | 0.071 J | 0.226 R | 0.048 J | 0.066 J | 0.090 UJ | 0.055 J |
| Copper (ug/L) | 8.97 | 9.17 | 7.80 | 41.5 | 36.0 | 15.9 | 9.90 | 15.8 | 13.7 |
| Copper, Dissolved (ug/L) | 1.82 | 1.68 | 2.22 | 3.01 | 3.11 | 2.20 | 2.21 | 3.79 | 3.18 |
| Lead (ug/L) | 3.29 | 3.99 | 2.58 | 6.49 | 1.40 | 5.42 | 4.45 | 7.00 | 6.32 |
| Lead, Dissolved (ug/L) | 0.550 U | 0.143 | 2.04 | 0.905 | 0.556 R | 0.108 | 0.128 | 0.147 | 0.181 |
| Mercury (ug/L) | 0.008 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U | 0.0080 U |
| Mercury, Dissolved (ug/L) | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U | 0.0090 U |
| Zinc (ug/L) | 45.0 | 57.6 | 38.9 | 59.4 | 27.6 | 63.4 | 60.1 | 69.4 | 72.1 |
| Zinc, Dissolved (ug/L) | 25.6 | 29.7 | 26.8 | 24.4 | 22.6 | 25.2 | 29.6 | 24.4 | 24.5 |
| Insecticides | | | | | | | | | |
| Bifenthrin (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| LPAHs | | | | | | | | | |
| 2-Methylnaphthalene (ug/L) | 0.015 | 0.017 | 0.045 | 0.042 | 0.010 U | 0.014 | 0.019 | 0.009 U | 0.012 |
| Acenaphthene (ug/L) | 0.010 U | 0.010 U | 0.010 U | 0.014 | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| Acenaphthylene (ug/L) | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 U | 0.009 UJ | 0.013 | 0.009 U | 0.009 U |
| Anthracene (ug/L) | 0.005 U | 0.005 U | 0.007 J | 0.015 | 0.012 U | 0.013 | 0.012 U | 0.012 U | 0.012 U |
| Fluorene (ug/L) | 0.009 U | 0.010 U | 0.010 U | 0.009 U | 0.010 U | 0.011 | 0.010 U | 0.009 U | 0.009 U |
| Naphthalene (ug/L) | 0.023 J | 0.034 | 0.036 | 0.047 | 0.027 U | Unusable R | 0.027 U | 0.026 U | 0.026 U |
| Phenanthrene (ug/L) | 0.032 | 0.035 | 0.024 | 0.041 | 0.018 U | 0.050 | 0.040 | 0.017 U | 0.023 |
| Total LPAHs | 0.072 | 0.086 | 0.082 | 0.126 | 0.043 | | 0.083 | 0.042 | 0.056 |
| HPAHs | | | | | | | | | |
| Benzo(a)anthracene (ug/L) | 0.006 U | 0.014 | 0.010 | 0.016 | 0.006 U | 0.031 | 0.018 | 0.029 U | 0.012 |
| Benzo(a)pyrene (ug/L) | 0.012 | 0.021 | 0.014 | 0.023 | 0.006 J | 0.035 | 0.023 | 0.003 U | 0.003 U |
| Benzo(b,k)fluoranthene (ug/L) | 0.034 | 0.071 | 0.040 | 0.061 UJ | 0.020 J | 0.114 | 0.096 | 0.117 J | 0.070 UJ |
| Benzo(g,h,i)perylene (ug/L) | 0.019 | 0.025 | 0.023 | 0.030 | 0.010 | 0.031 J | 0.022 | 0.058 | 0.019 |
| Chrysene (ug/L) | 0.020 | 0.062 | 0.021 | 0.031 | 0.009 J | 0.065 | 0.040 | 0.011 | 0.033 UJ |
| Dibenz(a,h)anthracene (ug/L) | 0.006 U | 0.006 U | 0.006 U | 0.007 J | 0.006 U | 0.006 U | 0.006 U | 0.031 U | 0.006 U |
| Fluoranthene (ug/L) | 0.039 | 0.074 | 0.030 | 0.048 | 0.015 | 0.116 | 0.062 | 0.024 | 0.056 UJ |
| Indeno(1,2,3-c,d)pyrene (ug/L) | 0.011 | 0.016 | 0.014 | 0.016 | 0.007 J | 0.022 | 0.020 | 0.024 U | 0.012 |
| Pyrene (ug/L) | 0.040 | 0.077 | 0.047 | 0.077 | 0.020 | 0.143 | 0.072 | 0.037 | 0.069 UJ |
| Retene (ug/L) | 0.014 | 0.017 | 0.016 | 0.020 | 0.008 J | 0.025 | 0.011 | 0.008 J | 0.010 |
| Total HPAHs | 0.181 | 0.363 | 0.202 | 0.309 | 0.093 | 0.560 | 0.356 | 0.291 | 0.2755 |
| TOTAL PAHs | 0.253 | 0.449 | 0.284 | 0.435 | 0.136 | | 0.439 | 0.332 | 0.332 |
| Phthalates | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate (ug/L) | 0.739 J | 1.01 | 0.709 J | 1.08 | 0.373 J | 1.55 | 1.16 | 0.831 UJ | 1.22 |
| Butyl benzyl phthalate (ug/L) | 0.405 U | 0.407 U | 0.407 U | 0.400 U | 0.418 U | 0.418 U | 0.417 U | 0.404 U | 0.405 U |
| Diethyl phthalate (ug/L) | 0.314 U | 0.316 U | 0.315 U | 0.410 J | 0.324 U | 0.324 UJ | 0.323 U | 0.313 U | 0.313 U |
| Dimethyl phthalate (ug/L) | 0.341 U | 0.343 U | 0.343 U | 0.337 U | 0.352 U | 0.352 UJ | 0.352 U | 0.341 U | 0.341 U |
| Di-n-butyl phthalate (ug/L) | 0.455 J | 0.297 U | 0.573 J | 0.596 J | 0.305 U | 0.305 U | 0.304 U | 0.595 J | 0.295 U |
| Di-n-octyl phthalate (ug/L) | 0.362 U | 0.364 U | 0.363 U | 0.357 U | 0.373 U | 0.373 U | 0.373 U | 1.80 U | 0.361 U |
| Total Phthalates | 1.19 | 1.01 | 1.28 | 2.09 | 0.37 | 1.55 | 1.16 | 1.43 | 1.22 |
| Herbicides | | | | | | | | | |
| Dichlobenil (ug/L) | 0.014 J | 0.012 J | 0.008 U | 0.150 | 0.023 J | Unusable R | 0.025 J | 0.020 U | 0.020 U |

Bold – The analyte was present in the sample.
 U – The analyte was not detected at or above the reported value.
 UJ – The analyte was not detected at or above the reported estimated value.
 J – The analyte was positively identified. The associated value is an estimate.
 R – The value is considered unusable.
 E - Exceeds value.

**Table D-7.2
Stormwater and Baseflow Analytical Data for Outfall 254 WY2022 - Grab Samples**

| | 3/14/2022 | 4/18/2022 | 5/5/2022 | 5/12/2022 |
|-----------------------------|--------------|-------------|--------------|--------------|
| TPH | | | | |
| NWTPH-Diesel (mg/L) | 0.16 | 0.10 U | 0.10 U | 0.10 UJ |
| NWTPH-Heavy Oil (mg/L) | 2.9 | 0.9 | 0.95 | 0.66 |
| Bacteria | | | | |
| Coliform, Fecal (CFU/100mL) | 5400 | 3300 | 33000 | 79000 |
| E. Coli (CFU/100mL) | 1700 | 3300 | 17000 | 2 U |
| Enterococci (CFU/100mL) | 13000 | 2200 | 26000 | 67000 |

Bold – The analyte was present in the sample.

U – The analyte was not detected at or above the reported value.

UJ – The analyte was not detected at or above the reported estimated value.

J – The analyte was positively identified. The associated value is an estimate.

R – The value is considered unusable.

E - Exceeds value.

**Table D-8
Sediment Trap Analytical Data WY2022**

| Outfall ID# | OF230 | | | | OF235 | OF237A | | | | OF237B | | OF243 | OF245 | | OF248 |
|--|------------|------------|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | FD16 | FD18 | FD3-A ⁶ | FD3-New | FD6 | FD10-C | FD13-B New | FD2 | FD2-A | FD1 | FD35 | FD23 | FD21 | MH-390 | FD22 |
| | 2208043-03 | 2208043-04 | 2208043-01 | 2208043-01 | 2208043-05 | 2208043-09 | 2208043-08 | 2208043-06 | 2208043-07 | 2208043-10 | 2208043-11 | 2208043-12 | 2208043-13 | 2208043-15 | 2208043-14 |
| Date Collected | 8/23/2022 | 8/23/2022 | 8/25/2021 | 8/23/2022 | 8/22/2022 | 8/11/2022 | 8/22/2022 | 8/22/2022 | 8/22/2022 | 8/22/2022 | 8/22/2022 | 8/22/2022 | 8/22/2022 | 8/22/2022 | 8/22/2022 |
| Conventional | | | | | | | | | | | | | | | |
| Particle/Grain Size, Clay (%) | -- | -- | -- | 1.1 | 3.6 | -- | -- | 2.2 | 1.7 | -- | -- | -- | -- | 2.4 | -- |
| Particle/Grain Size, Gravel (%) | -- | -- | -- | 13.1 | 0.9 | -- | -- | 1.1 | 0.2 | -- | -- | -- | 4.8 | 7.4 | -- |
| Particle/Grain Size, Sand (%) | 81.0 | 73.9 | -- | 74.0 | 56.5 | 75.1 | 78.6 | 77.9 | 65.4 | 94.5 | 84.5 | -- | 77.6 | 83.4 | 61.4 |
| Particle/Grain Size, Silt (%) | -- | -- | -- | 11.8 | 39.0 | -- | -- | 18.8 | 32.6 | -- | -- | -- | -- | 6.8 | -- |
| Particle/Grain Size, Silt/Clay(%) ⁷ | 19.0 | 26.1 | -- | -- | -- | 24.9 | 21.4 | -- | -- | 5.5 | 15.5 | -- | 17.6 | -- | 38.6 |
| Total Organic Carbon (mg/Kg) | 19000 | 60800 | -- | 40800 | 75800 | 135000 J | 230000 | 87800 | 102000 | 18700 | 67900 | 91500 | 101000 | 43900 | 159000 |
| Total Solids (%) | 25.3 | 45.6 | -- | 62.7 | 67.5 | 41.1 J | 27.7 | 53.7 | 40.1 | 74.8 | 52.1 | 34.2 | 50.0 | 71.9 | 41.5 |
| Total Volatile Solids (%) | -- | -- | -- | 7.4 | 10.4 | -- | -- | 15.0 | -- | 3.7 | -- | 20.2 | -- | 5.8 | -- |
| Nutrients | | | | | | | | | | | | | | | |
| Phosphorus, Total (mg/Kg) | -- | -- | -- | 543 | 636 | -- | -- | 667 | -- | 375 | -- | 1900 | -- | 622 | -- |
| Metals | | | | | | | | | | | | | | | |
| Cadmium (mg/Kg dry) | -- | -- | -- | 0.286 | 0.0574 J | -- | -- | 0.399 | -- | 2.030 | -- | 3.82 | -- | 0.588 | -- |
| Copper (mg/Kg dry) | -- | -- | -- | 48.2 | 124 | -- | -- | 69.8 | -- | 39.2 | -- | 205 | -- | 276 | -- |
| Lead (mg/Kg dry) | -- | -- | -- | 56.9 | 162 | -- | -- | 70 | -- | 25.3 | -- | 390 | 58.1 | 64.0 | 160 |
| Mercury (mg/Kg dry) | -- | -- | -- | 0.0623 | 0.0671 | -- | -- | 0.0667 | -- | 0.0175 | -- | 0.214 | -- | 0.211 | -- |
| Zinc (mg/Kg dry) | -- | -- | -- | 225 | 561 | -- | -- | 410 | -- | 192 | -- | 738 | 828 | 679 | 2630 |
| LPAHs | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene (ug/Kg) | -- | 60 UJ | -- | 54 J | 60 J | 60 UJ | 120 UJ | 60 UJ | 75 J | 59 UJ | -- | 80 J | -- | 60 UJ | -- |
| Acenaphthene (ug/Kg) | -- | 72 | -- | 38 | 67 U | 84 J | 269 | 67 U | 67 U | 67 U | -- | 67 U | -- | 67 U | -- |
| Acenaphthylene (ug/Kg) | -- | 32 UJ | -- | 16 J | 32 UJ | 32 UJ | 77 J | 32 UJ | 32 UJ | 32 UJ | -- | 32 UJ | -- | 32 UJ | -- |
| Anthracene (ug/Kg) | -- | 228 | -- | 59 | 50 | 202 J | 1280 | 237 | 69 | 34 U | -- | 372 | -- | 34 U | -- |
| Fluorene (ug/Kg) | -- | 90 | -- | 45 | 40 J | 129 J | 535 | 84 | 44 J | 27 U | -- | 56 | -- | 28 U | -- |
| Naphthalene (ug/Kg) | -- | 68 UJ | -- | 51 J | 87 J | 79 J | 136 UJ | 68 UJ | 153 J | 68 UJ | -- | 128 J | -- | 68 UJ | -- |
| Phenanthrene (ug/Kg) | -- | 1480 | -- | 615 | 446 | 2140 J | 12600 | 1500 | 568 | 121 | -- | 440 | -- | 72 | -- |
| Total LPAHs | -- | 1920 | -- | 824 | 673 | 2650 | 14829 | 1905 | 884 | 235 | -- | 1046 | -- | 187 | -- |
| HPAHs | | | | | | | | | | | | | | | |
| Benzo(a)anthracene (ug/Kg) | -- | 1090 | -- | 255 | 275 | 1420 J | 9880 | 1410 | 396 | 130 | -- | 505 | -- | 25 U | -- |
| Benzo(a)pyrene (ug/Kg) | -- | 1250 | -- | 293 | 360 | 2120 J | 12100 | 1580 | 483 | 185 | -- | 617 | -- | 56 U | -- |
| Benzo(b,k)fluoranthene (ug/Kg) | -- | 2850 | -- | 1060 | 825 | 6050 J | 25500 | 3990 | 1190 | 567 | -- | 1530 | -- | 133 U | -- |
| Benzo(g,h,i)perylene (ug/Kg) | -- | 444 | -- | 78 | 176 | 681 J | 6630 | 490 | 144 J | 119 | -- | 180 | -- | 82 | -- |
| Chrysene (ug/Kg) | -- | 1270 | -- | 345 | 436 | 2870 J | 13300 | 1810 | 621 | 183 | -- | 807 | -- | 54 | -- |
| Dibenz(a,h)anthracene (ug/Kg) | -- | 111 | -- | 22 | 66 U | 160 J | 1780 | 125 | 66 U | 65 U | -- | 66 U | -- | 66 U | -- |
| Fluoranthene (ug/Kg) | -- | 2740 | -- | 767 | 812 | 5020 J | 27600 | 3500 | 943 | 284 | -- | 1190 | -- | 94 | -- |
| Indeno(1,2,3-c,d)pyrene (ug/Kg) | -- | 676 | -- | 122 | 164 | 1050 J | 10100 | 718 | 174 J | 156 | -- | 201 | -- | 74 U | -- |
| Pyrene (ug/Kg) | -- | 1850 | -- | 546 | 737 | 3600 J | 21200 | 2890 | 938 | 252 | -- | 895 | -- | 117 | -- |
| Retene (ug/Kg) | -- | 407 | -- | 42 | 119 | 120 J | 771 | 475 | 183 | 32 U | -- | 154 | -- | 34 | -- |
| Total HPAHs | -- | 12281 | -- | 3488 | 3818 | 22971 | 128090 | 16513 | 4922 | 1909 | -- | 5958 | -- | 524 | -- |
| Total PAHs | -- | 14201 | -- | 4312 | 4491 | 25621 | 142919 | 18418 | 5806 | 2144 | -- | 7004 | -- | 711 | -- |
| Phthalates | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate (ug/Kg) | -- | -- | -- | 4460 | 16100 | -- | -- | 6850 | -- | 1360 | -- | 6460 | -- | 2600 | 7520 |
| Butyl benzyl phthalate (ug/Kg) | -- | -- | -- | 42 | 672 | -- | -- | 1110 | -- | 157 | -- | 578 | -- | 7420 | 1120 |
| Diethylphthalate (ug/Kg) | -- | -- | -- | 34 U | 35 U | -- | -- | 35 U | -- | 46 | -- | 35 U | -- | 49 | 47 |
| Dimethyl phthalate (ug/Kg) | -- | -- | -- | 8 J | 146 | -- | -- | 201 | -- | 28 U | -- | 28 U | -- | 169 | 28 U |
| Di-n-butylphthalate (ug/Kg) | -- | -- | -- | 68 | 202 | -- | -- | 237 | -- | 71 | -- | 163 | -- | 116 | 241 |
| Di-n-Octyl phthalate (ug/Kg) | -- | -- | -- | 14 U | 70 U | -- | -- | 71 U | -- | 70 U | -- | 70 U | -- | 71 U | 71 U |
| Total Phthalates | -- | -- | -- | 4578 | 17120 | -- | -- | 8398 | -- | 1634 | -- | 7201 | -- | 10354 | 8928 |
| PCBs | | | | | | | | | | | | | | | |
| Aroclor-1016 (ug/Kg) | 18 U | 18 U | -- | 18 U | 18 U | 18 U | -- | 18 U | 18 U | 18 U | 18 U | 18 U | -- | 18 U | -- |
| Aroclor-1221 (ug/Kg) | 18 U | 18 U | -- | 18 U | 18 U | 18 U | -- | 18 U | 18 U | 18 U | 18 U | 18 U | -- | 18 U | -- |
| Aroclor-1232 (ug/Kg) | 18 U | 18 U | -- | 18 U | 18 U | 18 U | -- | 18 U | 18 U | 18 U | 18 U | 18 U | -- | 18 U | -- |
| Aroclor-1242 (ug/Kg) | 18 U | 18 U | -- | 18 U | 18 U | 18 U | -- | 18 U | 18 U | 18 U | 18 U | 18 U | -- | 18 U | -- |
| Aroclor-1248 (ug/Kg) | 20 U | 20 U | -- | 20 U | 20 U | 20 U | -- | 20 U | 20 U | 20 U | 20 U | 20 U | -- | 20 U | -- |
| Aroclor-1254 (ug/Kg) | 663 | 225 | -- | 63.9 J | 20 U | 165 | -- | 20 U | 20 U | 20 U | 20 U | 20 U | -- | 20 U | -- |
| Aroclor-1260 (ug/Kg) | 20 U | 20 U | -- | 20 U | 20 U | 20 U | -- | 20 U | 20 U | 20 U | 20 U | 20 U | -- | 20 U | -- |
| TOTAL PCBs | 663 | 225 | -- | 63.9 | 165 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TPH | | | | | | | | | | | | | | | |
| NWTPH-Diesel (mg/Kg) | -- | -- | -- | 20 U | 20 U | -- | -- | 19 U | -- | 20 U | -- | 20 U | -- | 20 U | -- |
| NWTPH-Heavy Oil (mg/Kg) | -- | -- | -- | 970 | 2500 | -- | -- | 1900 | -- | 800 | -- | 2300 | -- | 1200 | -- |
| Insecticides | | | | | | | | | | | | | | | |
| Bifenthrin (ug/Kg) | -- | -- | -- | 23 | 15 | -- | -- | 43 | -- | 6 | -- | 29 | -- | 2 | -- |
| Herbicides | | | | | | | | | | | | | | | |
| Dichlobenil (ug/L) | -- | -- | -- | 33 | 41 | -- | -- | 25 | -- | 2 | -- | 6 | -- | 10 | -- |
| Phenolics | | | | | | | | | | | | | | | |
| 2-Methylphenol (ug/Kg dry) | -- | -- | -- | 7 UJ | 38 UJ | -- | -- | 38 UJ | -- | 38 UJ | -- | 38 UJ | -- | 38 UJ | -- |
| 4-Methylphenol (ug/Kg dry) | -- | -- | -- | 85 J | 367 J | -- | -- | 691 J | -- | 31 J | -- | 195 J | -- | 23 UJ | -- |
| Pentachlorophenol (ug/Kg dry) | -- | -- | -- | 149 J | 118 UJ | -- | -- | 158 J | -- | 11 UJ | -- | 162 J | -- | 11 UJ | -- |
| PBDEs (ng/Kg) | | | | | | | | | | | | | | | |
| PBDE-100 | -- | -- | -- | 2700 | 2980 J | -- | -- | 5290 | -- | 452 J | -- | 11400 E | -- | 3630 J | -- |
| PBDE-128/154 | -- | -- | -- | 1510 | 1700 J | -- | -- | 2240 | -- | 249 J | -- | 6390 | -- | 1690 | -- |
| PBDE-138 | -- | -- | -- | 197 J | 112 U | -- | -- | 50.1 U | -- | 65.5 U | -- | 131 U | -- | 93.7 U | -- |
| PBDE-153 | -- | -- | -- | 1350 | 1810 | -- | -- | 1790 | -- | 221 J | -- | 5430 | -- | 1590 | -- |
| PBDE-183/176 | -- | -- | -- | 218 U | -- | -- | -- | 1830 | -- | 135 J | -- | 4100 J | -- | 691 J | -- |
| PBDE-209 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PBDE-47 | -- | -- | -- | 9990 | 11800 | -- | -- | 17900 E | -- | 1960 | -- | 33800 | -- | 9010 | -- |
| PBDE-49 | -- | -- | -- | 563 | 927 | -- | -- | 1060 | -- | 162 J | -- | 8540 | -- | 577 | -- |
| PBDE-66 | -- | -- | -- | 302 J | 460 J | -- | -- | 712 J | -- | 121 U | -- | 1520 J | -- | 340 J | -- |
| PBDE-71 | -- | -- | -- | 54.8 U | 46.9 U | -- | -- | 20.9 U | -- | 27.3 U | -- | 54.6 U | -- | 39 U | -- |
| PBDE-99 | -- | -- | -- | 16000 | 16500 J | -- | -- | 30900 E | -- | 2350 J | -- | 67500 E | -- | 19300 E | -- |
| Total PBDEs | -- | -- | -- | 32612 | 36177 | -- | -- | 61722 | -- | 5529 | -- | 138680 | -- | 36828 | -- |

NPDES Sediment Trap Locations

1 - Total LPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Naphthalene, acenaphthene, acenaphthylene, anthracene, fluorene, and phenanthrene.

2 - Total HPAHs is the sum of the concentration of non-detected calculated value of the following compounds: Fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene.

3 - Total PAHs is the sum of the LPAHs and HPAHs.

4 - Total value for PCBs is the sum of detected values only.

5 - Total phthalates is the sum of detected values only.

6 - The upline FD3A sediment trap was removed due to the construction of the new OF230A on 12/17/2021 and no sediment was analyzed for WY2022.

The City is currently finishing up construction for this project and will re-evaluate possible locations with similar drainage areas and replace this upline trap in early 2023.

7 - Due to insufficient sample size the silt and clay percentage is reported as combined.

Bold - The analyte was present in the sample.

U - The analyte was not detected at or above the reported value.

UJ - The analyte was not detected at or above the reported estimated value.

J - The analyte was positively identified. The associated value is an estimate.

NJ - There is evidence the analyte is present. The associated value is an estimate.

E - Estimated above the calibration curve.