# TABLES

| Table 1 – Existing Taylor River Pond Dam HydroCAD® Analysis Summary | | | | |
|---|---|---|---|---|
| | Alternative A – No Action Existing (15.2 ft. Primary Spillway width), EL = 8.55 ft. | | | |
| **Storm Events (Year)** | 2 | 10 | 50 | 100 |
| **Flow (cfs)** | 246.7 | 769.1 | 1,508 | 1,981 |
| **Water Surface EL @ Dam (ft.)** | 10.06 | 11.93 | 14.17 | 15.72 |

**Table 2 - Taylor River Pond Dam**
**HEC-RAS Analysis Summary**

**Alternative B: New 70-Foot Bridge WITH Spillway**
**With High Monthly Tide (EL = 7.21') Blocked up to Spillway**

| River Station | Profile | Q Total (cfs) | Min Ch El (ft) | W.S. Elev (ft) | Vel Chnl (ft/s) | Top Width |
|---|---|---|---|---|---|---|
| 697 | 2 year | 246.7 | 7.21 | 9.07 | 2.06 | 68.5 |
| 697 | 10 year | 769.07 | 7.21 | 10.29 | 3.68 | 113.86 |
| 697 | 50 year | 1508.5 | 7.21 | 11.56 | 4.54 | 176.58 |
| 697 | 100 year | 1981.2 | 7.21 | 12.68 | 4.19 | 231.83 |
| Proposed I-95 Bridge | | | | | | |
| 458 | 2 year | 246.7 | 7.21 | 8.73 | 2.5 | 236.27 |
| 458 | 10 year | 769.07 | 7.21 | 9.46 | 2.44 | 387.12 |
| 458 | 50 year | 1508.5 | 7.21 | 10 | 3.03 | 452.8 |
| 458 | 100 year | 1981.2 | 7.21 | 10.22 | 3.45 | 504.73 |

**Table 3 – Taylor River Pond Dam**
**HEC-RAS Analysis Summary**

**Alternative C: New 70-Foot Bridge WITHOUT Spillway**
**With High Monthly Tide (EL = 7.21') Blocked Entire Reach**

| River Station | Storm Event | Q Total (cfs) | Min Ch El (ft) | W.S. Elev (ft) | Vel Chnl (ft/s) | Top Width |
|---|---|---|---|---|---|---|
| 697 | 2 year | 246.7 | 7.21 | 9.09 | 2.05 | 120.58 |
| 697 | 10 year | 769.07 | 7.21 | 10.29 | 3.7 | 223.65 |
| 697 | 50 year | 1508.5 | 7.21 | 11.54 | 4.68 | 405.39 |
| 697 | 100 year | 1981.2 | 7.21 | 12.64 | 4.43 | 627.52 |
| Proposed I-95 Bridge | | | | | | |
| 458 | 2 year | 246.7 | 7.21 | 8.76 | 2.44 | 100.99 |
| 458 | 10 year | 769.07 | 7.21 | 9.48 | 2.4 | 397.51 |
| 458 | 50 year | 1508.5 | 7.21 | 9.97 | 3.11 | 603.03 |
| 458 | 100 year | 1981.2 | 7.21 | 10.25 | 3.37 | 739.86 |

**Table 4 – Taylor River Pond Dam**
**HEC-RAS Analysis Summary**

**With High Monthly Tide (EL = 7.21') Blocked**

| | Alternative B: New 70-Foot Bridge WITH 50-Foot Spillway (1) | | | | Alternative C: New 70-Foot Bridge WITHOUT Spillway(2) | | | |
|---|---|---|---|---|---|---|---|---|
| **Stations / Storm Events (Year)** | 2 | 10 | 50 | 100 | 2 | 10 | 50 | 100 |
| Station 14+48 (Chamberlain) Sill EL = 14.25 ft. | 9.96 | 11.57 | 13.28 | 14.22 | 9.21 | 10.62 | 12.01 | 13.03 |
| Station 9+73 | 9.96 | 11.56 | 13.27 | 14.22 | 9.18 | 10.58 | 11.96 | 12.99 |
| Station 7+51 *DAM* | 9.46 | 10.49 | 11.60 | 12.20 | 9.18 | 10.56 | 11.95 | 12.97 |
| Station 7+22 *(between dam & bridge)* | 9.09 | 10.32 | 11.58 | 12.67 | N/A | N/A | N/A | N/A |
| Station 6+97 (just upstream of I-95) | 9.07 | 10.29 | 11.56 | 12.68 | 9.09 | 10.29 | 11.54 | 12.64 |
| Station 4+58 (just downstream of I-95) | 8.73 | 9.46 | 10.00 | 10.22 | 8.76 | 9.48 | 9.97 | 10.25 |

EL = elevation
(1) Tide blocked up to new spillway.
(2) Tide blocked entire reach.

# Table 5 – Taylor River Pond Dam Impoundment
## Sediment Quality - Station Locations (Upstream to Downstream)

| Station Name | Sample No. | Subsample | Water Depth (feet) | Depth of Refusal (from sediment surface) (feet) | Analyses: Grain Size | Metals | Pesticides | PCBs | VOCs | SVOCs | TOC | Toxicity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Sampling Event 1 (November 30, 2006)*** | | | | | | | | | | | | | |
| Taylor River, between Rice Dam and upstream of Taylor River Impoundment | TR-S1 | Three subsamples from edge of sediment islands within the Taylor River | | | ● | ● | ● | ● | ● | ● | ● | | *(1)* |
| Mid section of Taylor River Impoundment | TR-S2 | East (1 of 3) | 4.0 | 0.5 | ● | ● | ● | ● | ● | ● | ● | | |
| | | Center (2 of 3) | 4.0 | 0.7 | | | | | | | | | |
| | | West (3 of 3) | 6.0 | 1.9 | | | | | | | | | |
| Lower Taylor River Impoundment | TR-S5 | Central (1 of 2) | 4.5 | 2.0 | ● | ● | ● | ● | ● | ● | ● | | |
| | | South (2 of 2) | 6.5 | 1.5 | | | | | | | | | |
| Downstream of Taylor River Dam | TR-S4 | Three subsamples were collected from the intertidal zone, approximately 50 m apart. | | | ● | ● | ● | ● | ● | ● | ● | | |
| ***Sampling Event 2 (April 6, 2007)*** | | | | | | | | | | | | | |
| Rice Impoundment | TR-S11 | Center (1 of 2) | 4.6 | 0.3 | ● | ● | ● | ● | | | ● | ● | |
| | | Lower (2 of 2) | 6.0 | 0.7 | | | | | | | | | |
| | | Lower (2 of 3) | -- | -- | | | | | | | | | |
| Upper Taylor River Impoundment | TR-S8 | 2 subsamples 30 feet apart | 3.0 | 1.3 | ● | | | | | | | | |
| Mid section of Taylor River Impoundment | TR-S7 | East (1 of 3) | 4.0 | 1.0 | ● | ● | ● | ● | | | ● | ● | |
| | | Center (2 of 3) | 5.0 | 3.0 | | | | | | | | | |
| | | West (3 of 3) | 3.6 | 1.0 | | | | | | | | | |
| Downstream of TR-S7 | TR-S9 | 2 subsamples 30 feet apart | 4.3 | 0.8 | ● | | | | | | | | |
| Downstream of TR-S9 | RE-S10 | 2 subsamples 30 feet apart | 4.3 | 0.7 | ● | | | | | | | | |
| Lower Taylor River Impoundment | TR-S6 | South (1 of 3) | 3.6 | n/a | ● | ● | ● | ● | | | ● | ● | |
| | | Central (2 of 3) | 4.0 | 1.0 | | | | | | | | | |
| | | North (3 of 3) | 4.3 | 1.6 | | | | | | | | | |

*(1)* The river was flowing freely in this section. The grain size at this station was coarser than in the impoundments.

**Analytical Methods**

| *Parameter* | *Method* | |
|---|---|---|
| VOCs | 8260B | |
| SVOCs | 8270C | |
| PAHs | 8270c-SIM | |
| Pesticides | 8081A | |
| PCB Aroclors | 8082 | |
| TOC | 9060 | |
| Metals | 6020/7471 | Arsenic, barium, cadmium, chromium, copper, lead, nickel, zinc, mercury |

# Table 6 – Taylor River Pond Dam Impoundment
## Sediment Quality - Grain Size

| Sample No. | Sampling Date | Location (Upstream to downstream) | Grain Size (% of total sample) | | | | | | | | | | | Grain Size (% of total sample) - Sum - | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sieve Analysis | | | | | | | | | Hydrometer | | | | |
| | | | Sieve Size | | Gravel | | | | Coarse Sand | Medium Sand | Fine Sand | Silt | Clay | Total Gravel | Total Sand | Silt and Clay |
| | | | Mesh | from | 2" | 1" | 3/4" | 3/8" | #4 | #10 | #40 | | | | | |
| | | | | to | 1" | 3/4" | 3/8" | #4 | #10 | #40 | #200 | | | | | |
| | | | inch | from | 1.50 | 1.00 | 0.75 | 0.375 | | | | | | | | |
| | | | | to | 1.00 | 0.75 | 0.50 | 0.187 | | | | | | | | |
| | | | mm | from | 50.8 | 25.4 | 19.1 | 9.5 | 4.75 | 2.00 | 0.420 | 0.074 | <0.005 | | | |
| | | | | to | 25.4 | 19.1 | 12.7 | 4.75 | 2.00 | 0.42 | 0.074 | 0.005 | | | | |
| TR-S11 | 9-Apr-07 | Rice Impoundment | % | | | | | | 0.3 | 39.5 | 5.9 | 46.1 | 8.2 | | 45.7 | 54.3 |
| TR-S1 | 30-Oct-06 | Taylor River, between Rice Dam and upstream of Taylor River Impoundment | % | | | | 6.7 | 12.2 | 8.2 | 28.4 | 21.9 | 14.1 | 8.5 | 19.0 | 58.5 | 22.6 |
| **Taylor River Impoundment** | | | | | | | | | | | | | | | | |
| TR-S8 | 9-Apr-07 | Upper impoundment (upstream of Towle Farm Road) | % | | | | | | | 37.6 | 7.4 | 48.8 | 6.2 | | 45.0 | 55.0 |
| TR-S7 | 9-Apr-07 | Mid section of Taylor River Impoundment (downstream of Towle Farm Road) | % | | | | | | | 40.4 | 10.6 | 40.4 | 8.6 | | 51.0 | 49.0 |
| TR-S2 | 30-Oct-06 | | % | | | | | | | 61.0 | 18.0 | 15.4 | 5.6 | | 79.0 | 21.0 |
| TR-S9 | 9-Apr-07 | Downstream of TR-S2/S7 | % | | | | | | | 43.6 | 13.6 | 28.7 | 14.1 | | 57.2 | 42.8 |
| TR-S10 | 9-Apr-07 | Downstream of TR-S9 | % | | | | | | | 35.8 | 19.0 | 39.9 | 5.3 | | 54.8 | 45.2 |
| TR-S6 | 9-Apr-07 | Lower Impoundment, near Taylor River Dam | % | | | | | | | 36.2 | 18.6 | 35.6 | 9.6 | | 54.8 | 45.2 |
| TR-S5 | 30-Oct-06 | | % | | | | | 1.6 | 19.5 | 22.9 | 18.1 | 31.7 | 6.2 | 1.6 | 60.5 | 37.9 |
| **Mean - Taylor River Impoundment** | | | **%** | | | | | **0.2** | **2.8** | **39.6** | **15.0** | **34.4** | **7.9** | **0.2** | **57.5** | **42.3** |
| TR-S4 | 30-Oct-06 | Downstream of Taylor River Impoundment | % | | | | 0.7 | 2.0 | 11.5 | 17.2 | 45.5 | 17.1 | 6.1 | 2.7 | 74.1 | 23.2 |

Note: Samples collected on April 9, 2007 were considerably larger (1 gallon) and thus are more representative than samples from November 30, 2006 (500 ml).
The sample size was increased for the second sampling event due to the high water content of the bottom sediments, particularly from within the Taylor River impoundment.

# Table 7 – Taylor River Pond Dam Impoundment
## Sediment Accumulation - Measured on December 18, 2006

| Station ID | Latitude (WGS 84) | Longitude (WGS 84) | Northing (NH SP- 1983) | Easting (NH SP- 1983) | Water Depth | Refusal Depth (from water surface) | Sediment Thickness *(1)* |
|---|---|---|---|---|---|---|---|
| | | | feet | feet | feet | feet | feet |
| 1 | N 42 56.0731 | W 70 51.9262 | 159392.81 | 1198817.64 | 3.7 | *ed* | |
| 2 | N 42 56.0965 | W 70 51.9194 | 159535.24 | 1198846.64 | 3.3 | *ed* | |
| 3 | N 42 56.1082 | W 70 51.9313 | 159605.81 | 1198792.85 | 3.3 | *ed* | |
| 4 | N 42 56.1361 | W 70 51.9192 | 159775.80 | 1198845.24 | 3.0 | 3.8 | 0.8 |
| 5 | N 42 56.1134 | W 70 51.9263 | 159637.61 | 1198814.86 | 3.1 | 4.0 | 0.9 |
| 6 | N 42 56.0941 | W 70 51.9334 | 159520.07 | 1198784.29 | 3.6 | 4.2 | 0.6 |
| 7 | N 42 56.0761 | W 70 51.9182 | 159411.38 | 1198853.17 | 4.0 | 4.8 | 0.8 |
| 8 | N 42 56.9532 | W 70 51.9141 | 164739.40 | 1198820.70 | 3.8 | 4.6 | 0.8 |
| 9 | N 42 56.0311 | W 70 51.9014 | 159138.74 | 1198930.76 | 3.9 | 4.4 | 0.5 |
| 10 | N 42 56.0174 | W 70 51.8642 | 159057.11 | 1199097.59 | 3.6 | 4.5 | 0.9 |
| 11 | N 42 56.0141 | W 70 51.8335 | 159038.37 | 1199234.81 | 3.3 | 5.1 | 1.8 |
| 12 | N 42 55.9951 | W 70 51.8459 | 158922.43 | 1199180.56 | 3.5 | 5.8 | 2.3 |
| 13 | N 42 55.9760 | W 70 51.8554 | 158806.00 | 1199139.27 | 3.3 | 5.0 | 1.7 |
| 14 | N 42 55.9642 | W 70 51.8651 | 158733.91 | 1199096.66 | 4.2 | 5.0 | 0.8 |
| 15 | N 42 55.9753 | W 70 51.9021 | 158799.76 | 1198930.87 | 10.3 | 12.5 | 2.3 |
| 16 | N 42 55.9940 | W 70 51.8883 | 158913.94 | 1198991.38 | 3.8 | 5.0 | 1.2 |
| 17 | N 42 56.0030 | W 70 51.8779 | 158969.05 | 1199037.28 | 3.3 | 4.3 | 1.0 |
| 18 | N 42 56.0014 | W 70 51.9203 | 158957.53 | 1198848.12 | 3.3 | 4.7 | 1.3 |
| 19 | N 42 55.9932 | W 70 51.9421 | 158906.79 | 1198751.29 | 5.0 | 5.8 | 0.8 |
| 20 | N 42 55.9783 | W 70 51.9581 | 158815.60 | 1198680.74 | 4.1 | 6.0 | 1.9 |
| 21 | N 42 55.9881 | W 70 51.9874 | 158873.89 | 1198549.40 | 3.6 | 4.3 | 0.8 |
| 22 | N 42 56.0059 | W 70 51.9862 | 158982.06 | 1198553.72 | 3.3 | 4.2 | 0.8 |
| 23 | N 42 56.0189 | W 70 51.9800 | 159061.29 | 1198580.65 | 3.3 | 4.1 | 0.8 |
| 24 | N 42 56.0449 | W 70 52.0331 | 159216.97 | 1198342.14 | 3.7 | 4.3 | 0.7 |
| 25 | N 42 56.0351 | W 70 52.0545 | 159156.54 | 1198247.19 | 4.0 | 4.8 | 0.8 |
| 26 | N 42 56.0672 | W 70 52.0674 | 159350.98 | 1198187.76 | 3.3 | 3.8 | 0.6 |
| 27 | N 42 56.0619 | W 70 52.0848 | 159318.05 | 1198110.40 | 8.3 | 10.3 | 2.0 |
| 28 | N 42 56.0932 | W 70 52.0841 | 159508.20 | 1198111.72 | 3.7 | 4.2 | 0.5 |
| 29 | N 42 56.0850 | W 70 52.1142 | 159457.12 | 1197977.85 | 3.3 | 3.9 | 0.7 |
| 30 | N 42 56.1199 | W 70 52.1301 | 159668.44 | 1197904.87 | 3.4 | 4.0 | 0.6 |
| 31 | N 42 56.1540 | W 70 52.1365 | 159875.31 | 1197874.34 | 5.3 | 7.8 | 2.6 |
| 32 | N 42 56.1723 | W 70 52.1534 | 159985.75 | 1197797.86 | 8.9 | 9.4 | 0.5 |
| 33 | N 42 56.1999 | W 70 52.1740 | 160152.54 | 1197704.33 | 3.3 | 4.1 | 0.8 |
| 34 | N 42 56.2140 | W 70 52.2175 | 160236.35 | 1197509.37 | 3.3 | 4.2 | 0.8 |
| 35 | N 42 56.2001 | W 70 52.2313 | 160151.33 | 1197448.58 | 3.0 | 3.9 | 0.9 |
| 36 | N 42 56.1888 | W 70 52.2381 | 160082.40 | 1197418.88 | 6.8 | 7.4 | 0.6 |
| 37 | N 42 56.1740 | W 70 52.2137 | 159993.53 | 1197528.63 | 4.0 | 4.8 | 0.8 |
| 38 | N 42 56.1583 | W 70 52.1912 | 159899.11 | 1197629.96 | 3.0 | 3.7 | 0.7 |
| 39 | N 42 56.1899 | W 70 52.2758 | 160087.49 | 1197250.55 | 3.8 | 4.5 | 0.8 |

## Table 7 – Taylor River Pond Dam Impoundment
## Sediment Accumulation - Measured on December 18, 2006

| Station ID | Latitude (WGS 84) | Longitude (WGS 84) | Northing (NH SP- 1983) | Easting (NH SP- 1983) | Water Depth | Refusal Depth (from water surface) | Sediment Thickness *(1)* |
|---|---|---|---|---|---|---|---|
| | | | feet | feet | feet | feet | feet |
| 40 | N 42 56.1931 | W 70 52.2740 | 160107.00 | 1197258.40 | 3.7 | 4.4 | 0.8 |
| 41 | N 42 56.1994 | W 70 52.2770 | 160145.15 | 1197244.65 | 3.2 | 3.8 | 0.6 |
| 42 | N 42 56.2065 | W 70 52.2771 | 160188.27 | 1197243.80 | 4.0 | 5.0 | 1.0 |
| 43 | N 42 56.1899 | W 70 52.3027 | 160086.36 | 1197130.49 | 5.0 | 5.4 | 0.4 |
| 44 | N 42 56.1800 | W 70 52.3379 | 160024.73 | 1196973.96 | 6.5 | 6.8 | 0.3 |
| 45 | N 42 56.1869 | W 70 52.3360 | 160066.73 | 1196982.04 | 3.0 | 3.7 | 0.7 |
| 46 | N 42 56.1939 | W 70 52.3376 | 160109.18 | 1196974.50 | 2.8 | 3.7 | 0.8 |
| 47 | N 42 56.2038 | W 70 52.3870 | 160167.24 | 1196753.45 | 3.0 | 3.7 | 0.7 |
| 48 | N 42 56.1896 | W 70 52.3932 | 160080.72 | 1196726.59 | 2.3 | 3.6 | 1.3 |
| 49 | N 42 56.1765 | W 70 52.3961 | 160001.02 | 1196714.40 | 7.8 | 8.2 | 0.3 |
| 50 | N 42 56.1768 | W 70 52.4190 | 160001.88 | 1196612.18 | 9.0 | 9.1 | 0.1 |
| 51 | N 42 56.1990 | W 70 52.4613 | 160134.95 | 1196422.11 | 6.0 | 6.2 | 0.2 |
| 52 | N 42 56.2509 | W 70 52.4621 | 160450.18 | 1196415.57 | 2.9 | 4.0 | 1.1 |
| 53 | N 42 56.2488 | W 70 52.4794 | 160436.70 | 1196338.48 | 2.7 | 4.9 | 2.3 |
| 54 | N 42 56.2454 | W 70 52.4721 | 160416.35 | 1196371.26 | 2.7 | 3.9 | 1.3 |
| 55 | N 42 56.2482 | W 70 52.4668 | 160433.58 | 1196394.75 | 2.6 | 3.5 | 0.9 |
| 56 | N 42 56.2721 | W 70 52.4831 | 160578.07 | 1196320.64 | 2.5 | 3.4 | 0.9 |
| 57 | N 42 56.2883 | W 70 52.4886 | 160676.25 | 1196295.16 | 2.1 | 2.9 | 0.8 |
| 58 | N 42 56.2824 | W 70 52.5008 | 160639.90 | 1196241.05 | 2.9 | 3.6 | 0.7 |
| 59 | N 42 56.3012 | W 70 52.5113 | 160753.65 | 1196193.11 | 2.0 | 2.5 | 0.5 |
| 60 | N 42 56.3240 | W 70 52.5168 | 160891.92 | 1196167.26 | 2.0 | 3.7 | 1.7 |
| 61 | N 42 56.3285 | W 70 52.5086 | 160919.60 | 1196203.60 | 2.7 | 3.7 | 1.0 |
| 62 | N 42 56.3362 | W 70 52.5230 | 160965.77 | 1196138.89 | 1.5 | 2.9 | 1.4 |
| 63 | N 42 56.3634 | W 70 52.5272 | 161130.81 | 1196118.60 | 6.3 | 7.3 | 1.0 |
| 64 | N 42 56.3599 | W 70 52.5526 | 161108.49 | 1196005.44 | 3.5 | 4.9 | 1.4 |
| 65 | N 42 56.3823 | W 70 52.5460 | 161244.83 | 1196033.61 | 1.0 | 2.0 | 1.0 |
| 66 | N 42 56.3810 | W 70 52.5383 | 161237.26 | 1196068.05 | 1.8 | 3.2 | 1.3 |
| 67 | N 42 56.4115 | W 70 52.5600 | 161421.61 | 1195969.46 | 2.0 | 3.5 | 1.5 |
| 68 | N 42 56.4253 | W 70 52.5790 | 161504.64 | 1195883.88 | 3.0 | 5.8 | 2.8 |
| 69 | N 42 56.4296 | W 70 52.5902 | 161530.29 | 1195833.65 | 3.0 | 5.2 | 2.2 |
| 70 | N 42 56.4456 | W 70 52.6020 | 161626.99 | 1195780.08 | 2.3 | 2.8 | 0.4 |
| 71 | N 42 56.4576 | W 70 52.6124 | 161699.45 | 1195732.98 | 3.7 | 4.3 | 0.7 |
| 72 | N 42 56.4723 | W 70 52.6151 | 161788.63 | 1195720.09 | 1.7 | 2.3 | 0.7 |
| **Mean** | | | | | | | **1.0** |
| **Median** | | | | | | | **0.8** |
| **Minimum** | | | | | | | **0.1** |
| **Maximum** | | | | | | | **2.8** |

*(1)* Refusal depth minus Water depth.
*ed* Edited

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# Table 8 – Taylor River Pond Dam Impoundment
## Sediment Quality - All Compounds (Except VOCs)

| SAMPLE ID (1) | Sediment Concentrations in Taylor River Impoundment | | | | | | | | | | | | | | Freshwater Criteria (1) | | | | | | Marine Water Criteria | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TR-S1 | | TR-S5 | | TR-S2 | | TR-S4 | | TR-S6 | | TR-S7 | | TR-S11 | | McDonald (2) | | 1999 NOAA SQUIRTs, 1999 (3) | | | | 1999 NOAA SQUIRTs, 1999 (3) | | | | | Barrick, 1988 (7) | |
| | Downstream of Impoundm. | | Lower Impoundm. | | Mid-Impoundm. | | Upstream of Impoundm. | | Lower Impoundm. | | Mid-Impoundm. | | Rice Impoundm. | | TEC | PEC | TEL | TEL | PEL | UET | TEL | ERL | PEL | ERM | AET | AET-L | AET-H |
| | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Consensus Effect Concentr. | Probable Effect Concentr. | Lowest ARCs *H.azteca* | Threshold Effects Level | Probable Effects Level | Upper Effects Threshold | Threshold Effects Level | Effects Range-Low | Probable Effects Level | Effect Range-Median | Apparent Effects Threshold (4) | Apparent Effects Threshold - Low (4) | Apparent Effects Threshold - High (4) |
| **Metals (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 12 | | 36 | | 17 | | 24 | | 28 | | 26 | | 21 | | 9.79 | 33 | 10.8 | 5.9 | 17 | 17 M | 7.24 | 8.2 | 41.6 | 70 | 35 B | 57 X | |
| Barium (6) | 36 | | 130 | | 83 | | 42 | | 120 | | 120 | | 87 | | 20 | | | | | | | | | | 48 A | | |
| Cadmium | 0.16 | | 1.2 | | 0.53 | | 0.19 | | 0.87 | | 0.97 | | 0.55 | | 0.99 | 4.98 | 0.58 | 0.60 | 3.53 | 3 I | 0.68 | 1.2 | 4.21 | 9.6 | 3 N | 5.1 X | 9.6 O |
| Chromium | 40 | | 44 | | 28 | | 34 | | 37 | | 38 | | 36 | | 43.4 | 111 | 36.3 | 37.3 | 90 | 95 H | 52.3 | 81 | 160 | 370 | 62 N | 260 X | 270 A |
| Copper | 14 | | 35 | | 18 | | 15 | | 28 | | 28 | | 19 | | 31.6 | 149 | 28.0 | 35.7 | 197 | 86 I | 18.7 | 34 | 108 | 270 | 390 MO | 390 O | 1,300 A |
| Lead | 25 | | 87 | | 32 | | 8.8 | | 60 | | 56 | | 33 | | 35.8 | 128 | 37 | 35 | 91.3 | 127 H | 30.2 | 46.7 | 112 | 218 | 400 B | 450 X | 660 AO |
| Mercury | 0.017 | | 0.21 | | 0.095 | | 0.039 | | 0.26 | | 0.21 | | 0.12 | | 0.18 | 1.06 | | 0.17 | 0.49 | 0.56 M | 0.13 | 0.15 | 0.70 | 0.71 | 0.41 MO | 0.59 O | 2.1 AX |
| Nickel | 28 | | 38 | | 21 | | 25 | | 31 | | 31 | | 29 | | 22.7 | 48.6 | 19.5 | 18 | 35.9 | 43 H | 15.9 | 20.9 | 42.8 | 51.6 | 110 EL | | |
| Zinc | 66 | | 240 | | 110 | | 56 | | 180 | | 180 | | 130 | | 121 | 459 | 98 | 123.1 | 315 | 520 M | 124 | 150 | 271 | 410 | 410 I | 410 X | 1,600 O |
| **Pesticides by 8081 (ug/kg)** (Range of Method Detection Limits for these compounds: **0.011 - 0.130 ug/kg**) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,4'-DDD | 1.5 | U | 24 | | 6.8 | | 2.7 | U | 12 | | 5.1 | | 2.5 | | 4.88 | 28 | | 3.54 | 8.51 | 60 I | 1.22 | 2 | 7.81 | 20 | 16 I | 16 X | 43 A |
| 4,4'-DDE | 7.5 | | 61 | | 16 | I | 2.7 | U | 22 | | 19 | I | 6.1 | | 3.16 | 31.3 | | 1.42 | 6.75 | 50 I | 2.07 | 2.2 | 374 | 27 | 9 I | 9 X | 15 A |
| 4,4'-DDT | 4.1 | | 16 | | 8.7 | P | 2.7 | U | 2.2 | | 1.5 | I | 1.8 | I | 4.16 | 62.9 | | | | <50 I | 1.19 | 1 | 4.77 | 7 | 12 E | 34 X | 34 X |
| Aldrin | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | | | | | | 40 I | | | | | 9.5 AE | | |
| alpha-BHC | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | | | | | | | | | | | | | |
| alpha-Chlordane | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | 3.24 | 17.6 | | 4.5 | 8.9 | 30 I | 2.26 | 0.5 | 4.79 | 6 | 2.8 A | | |
| beta-BHC | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | | | | | | | | | | | | | |
| delta-BHC | 2.4 | | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | | | | | | | | | | | | | |
| Dieldrin | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | 1.9 | 61.8 | | 2.85 | 6.67 | 300 I | 0.715 | 0.02 | 4.3 | 8 | 1.9 E | | |
| Endosulfan I | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | | | | | | | | | | | | | |
| Endosulfan II | 3.0 | | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | | | | | | | | | | | | | |
| Endosulfan sulfate | 7.8 | | 20 | | 20 | P | 5.7 | | 0.59 | U | 0.78 | | 1.1 | | | | | | | | | | | | | | |
| Endrin | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | 2.22 | 207 | | 2.67 | 62.4 | 500 I | | | | | | | |
| Endrin aldehyde | 5.7 | | 22 | | 10 | | 4.0 | | 0.59 | U | 0.50 | U | 0.40 | U | | | | | | | | | | | | | |
| Endrin ketone | 4.2 | | 14 | | 9.5 | | 2.7 | U | 0.59 | U | 1.20 | | 0.40 | U | | | | | | | | | | | | | |
| gamma-BHC (Lindane) | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | 2.37 | 4.99 | | 0.94 | 1.38 | 9 I | 0.32 | | 0.99 | | >4.8 N | | |
| gamma-Chlordane | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.98 | | 0.40 | U | | | | | | | | | | | | | |
| Heptachlor | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | | | | | | 10 I | | | | | 0.3 B | | |
| Heptachlor epoxide (B) | 1.5 | U | 9.3 | U | 4.7 | U | 2.7 | U | 0.59 | U | 0.50 | U | 0.40 | U | 2.47 | 16 | | 0.6 | 2.74 | 30 I | | | | | | | |
| Methoxychlor | 12 | BP | 96 | BP | 26 | BP | 14 | B | 5.5 | P | 7.1 | | 3.7 | | | | | | | | | | | | | | |
| Toxaphene | 75 | U | 470 | U | 240 | U | 140 | U | 30 | U | 25 | U | 20 | U | | | | | | | | | | | | | |
| **Polychlorinated Biphenyls by 8082 (ug/kg)** (Range of Method Detection Limits for these compounds: **1.01 - 1.43 ug/kg**) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 60 | U | 370 | U | 190 | U | 110 | U | 24 | U | 20 | U | 16 | U | | | | | | | 21.6 | 22.7 | 189 | 180 | | 1,000 X | 3,100 A |
| Aroclor 1221 | 60 | U | 370 | U | 190 | U | 110 | U | 24 | U | 20 | U | 16 | U | | | | | | | 21.6 | 22.7 | 189 | 180 | | 1,000 X | 3,100 A |
| Aroclor 1232 | 60 | U | 370 | U | 190 | U | 110 | U | 24 | U | 20 | U | 16 | U | | | | | | | 21.6 | 22.7 | 189 | 180 | | 1,000 X | 3,100 A |
| Aroclor 1242 | 60 | U | 370 | U | 190 | U | 110 | U | 24 | U | 20 | U | 16 | U | | | | | | | 21.6 | 22.7 | 189 | 180 | | 1,000 X | 3,100 A |
| Aroclor 1248 | 60 | U | 370 | U | 190 | U | 110 | U | 24 | U | 20 | U | 16 | U | | | | | | | 21.6 | 22.7 | 189 | 180 | | 1,000 X | 3,100 A |
| Aroclor 1254 | 60 | U | 370 | U | 190 | U | 110 | U | 24 | U | 20 | U | 16 | U | | | | | | | 21.6 | 22.7 | 189 | 180 | | 1,000 X | 3,100 A |
| Aroclor 1260 | 60 | U | 370 | U | 190 | U | 110 | U | 24 | U | 20 | U | 16 | U | | | | | | | 21.6 | 22.7 | 189 | 180 | | 1,000 X | 3,100 A |
| Total PCBs | <60 | U | <370 | U | <190 | U | <110 | U | <24 | U | <20 | U | <16 | U | 59.8 | 676 | 31.6 | 34.1 | 277 | 26 M | 21.6 | 22.7 | 189 | 180 | 130 M | 1,000 X | 3,100 A |
| **Semi-Volatile Organics by 8270 (ug/kg)** (Range of Method Detection Limits for these compounds: **6.27 - 15.14 ug/kg**) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| bis(2-Chloroethyl)ether | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Phenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | 48 H | | | | | 130 E | 420 X | 1,200 AX |
| 2-Chlorophenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 8 A | | |
| 1,3-Dichlorobenzene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 110 IM | 110 X | 120 AO |
| 1,2-Dichlorobenzene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |

# Table 8 – Taylor River Pond Dam Impoundment
## Sediment Quality - All Compounds (Except VOCs)

| SAMPLE ID (1) | Sediment Concentrations in Taylor River Impoundment | | | | | | | | | | | | | | Freshwater Criteria (1) | | | | | | Marine Water Criteria | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | McDonald (2) | | 1999 NOAA SQUIRTs, 1999 (3) | | | | 1999 NOAA SQUIRTs, 1999 (3) | | | | | Barrick, 1988 (7) | |
| | TR-S1 | | TR-S5 | | TR-S2 | | TR-S4 | | TR-S6 | | TR-S7 | | TR-S11 | | TEC | PEC | TEL | TEL | PEL | UET | TEL | ERL | PEL | ERM | AET | AET-L | AET-H |
| | Downstream of Impoundm. | | Lower Impoundm. | | Mid-Impoundm. | | Upstream of Impoundm. | | Lower Impoundm. | | Mid-Impoundm. | | Rice Impoundm. | | Consensus Effect Concentr. | Probable Effect Concentr. | Lowest ARCs *H.azteca* | Threshold Effects Level | Probable Effects Level | Upper Effects Threshold | Threshold Effects Level | Effects Range-Low | Probable Effects Level | Effect Range-Median | Apparent Effects Threshold (4) | Apparent Effects Threshold - Low (4) | Apparent Effects Threshold - High (4) |
| | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | | | | | | | | | | | | | |
| Benzyl alcohol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 52 B | 73 X | 870 AX |
| bis(2-chloroisopropyl)ether | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 2-Methylphenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 8 B | | |
| Hexachloroethane | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 73 BL | | |
| n-Nitroso-di-n-propylamine | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 4-Methylphenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 100 B | | |
| Nitrobenzene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 21 N | | |
| Isophorone | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 2-Nitrophenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 18 N | 29 O | 210 X |
| Benzoic acid (5) | 1,200 | U | **25,000** | | **3,000** | J | 2,300 | U | | | | | | | | | | | | | | | | | 65 O | 650 OX | 760 A |
| bis(2-Chloroethoxy)methane | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 5 A | | |
| 1,2,4-Trichlorobenzene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Naphthalene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 4-Chloroaniline | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | 670 O | 1,900 A |
| Hexachlorocyclopentadiene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 6 I | | |
| 2,4,5-Trichlorophenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 3 I | | |
| 2-Chloronaphthalene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 2-Nitroaniline | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Dimethylphthalate | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 6 B | 160 X | 160 X |
| 2,6-Dinitrotoluene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 3-Nitroaniline | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 2,4-Dinitrophenol | 1,200 | U | 7,700 | U | 3,700 | U | 2,300 | U | | | | | | | | | | | | | | | | | | | |
| Dibenzofuran | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | 5,100 H | | | | | 110 E | 540 O | 1,700 A |
| 2,4-Dinitrotoluene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 4-Nitrophenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Diethylphthalate | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 6 BL | 200 X | 200 X |
| 4-Nitroaniline | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 1,200 | U | 7,700 | U | 3,700 | U | 2,300 | U | | | | | | | | | | | | | | | | | | | |
| n-Nitrosodiphenylamine | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 28 I | 28 X | 130 O |
| 4-Bromophenyl-phenylether | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | 100 I | | | | | 6 B | 22 X | 230 O |
| Pentachlorophenol | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 17 B | 360 A | 690 X |
| Carbazole | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Di-n-butylphthalate | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | 110 H | | | | | 58 BL | 1,400 AO | 1,400 AO |
| Butylbenzylphthalate | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 63 M M | 900 AX | 900 AX |
| 3,3'-Dichlorobenzidine | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | 1,300 X | 1,900 O |
| Di-n-octylphthalate | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | 63 BL | 6,200 X | 6,200 X |
| Acenaphthylene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Fluorene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Phenanthrene | 310 | U | 1,900 | U | **500** | J | 580 | U | | | | | | | | | | | | | | | | | | | |
| Anthracene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Fluoranthene | 310 | U | 1,900 | U | **770** | J | 580 | U | | | | | | | | | | | | | | | | | | | |
| Pyrene | 310 | U | 1,900 | U | **700** | J | 580 | U | | | | | | | | | | | | | | | | | | | |
| Benz[a]anthracene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |

(also analyzed with the more sensitive Method 8270 - see below)

# Table 8 – Taylor River [illegible]d Dam Impoundment
## Sediment Quality - All Co[illegible]pounds (Except VOCs)

| SAMPLE ID (1) | Sediment Concentrations in Taylor River Impoundment | | | | | | | | | | | | | | Freshwater Criteria (1) | | | | | | Marine Water Criteria | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | McDonald (2) | | 1999 NOAA SQUIRTs, 1999 (3) | | | | 1999 NOAA SQUIRTs, 1999 (3) | | | | | Barrick, 1988 (7) | |
| | TR-S1 | | TR-S5 | | TR-S2 | | TR-S4 | | TR-S6 | | TR-S7 | | TR-S11 | | TEC | PEC | TEL | TEL | PEL | UET | TEL | ERL | PEL | ERM | AET | AET-L | AET-H |
| | Downstream of Impoundm. | | Lower Impoundm. | | Mid-Impoundm. | | Upstream of Impoundm. | | Lower Impoundm. | | Mid-Impoundm. | | Rice Impoundm. | | Consensus Effect Concentr. | Probable Effect Concentr. | Lowest ARCs *H.azteca* | Threshold Effects Level | Probable Effects Level | Upper Effects Threshold | Threshold Effects Level | Effects Range-Low | Probable Effects Level | Effect Range-Median | Apparent Effects Threshold (4) | Apparent Effects Threshold - Low (4) | Apparent Effects Threshold - High (4) |
| | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | | | | | | | | | | | | | |
| Chrysene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Benzo[b]fluoranthene | 310 | U | 1,900 | U | **500** | J | 580 | U | | | | | | | | | | | | | | | | | | | |
| Benzo[k]fluoranthene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Benzo[a]pyrene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Dibenz[a,h]anthracene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| Benzo[g,h,i]perylene | 310 | U | 1,900 | U | 920 | U | 580 | U | | | | | | | | | | | | | | | | | | | |
| **Semi-Volatile Organics by 8270 - SIM (ug/kg)** | (Range of Method Detection Limits for these compounds: **0.75 - 3.98 ug/kg**) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Naphthalene | 6.2 | U | **20** | J | **19** | | 12.0 | U | **14** | J | **20** | | **5.3** | J | 176 | 561 | 15 | | | 600 I | 35 | 160 | 391 | 2,100 | 230 E | 2,100 O | 2,700 X |
| 2-Methylnaphthalene | 6.2 | U | 39 | U | **14** | J | 12.0 | U | **10** | J | **16** | | 10 | U | | | | | | | 20 | 70 | 201 | 670 | 64 E | | |
| Acenaphthylene | **7.0** | | **77** | | **140** | | 12.0 | U | **38** | | **110** | | **18** | | | | | | | 160 M | 6 | 44 | 128 | 640 | 71 E | 1,300 AX | 1,300 AX |
| Acenaphthene | 6.2 | U | 39 | U | **14** | J | 12.0 | U | 16 | U | **17** | | 10 | U | | | | | | 290 M | 7 | 16 | 89 | 500 | 130 E | 500 A | 2,000 A |
| Fluorene | 6.2 | U | 39 | U | **25** | | 12.0 | U | **18** | | **38** | | **8.5** | J | 77 | 536 | 10 | | | 300 M | 21 | 19 | 144 | 540 | 120 E | 540 O | 3,600 A |
| Phenanthrene | **12** | | **110** | | 360 | | 12.0 | U | **150** | | 430 | | **58** | | 204 | 1,170 | 19 | 42 | 515 | 800 I | 87 | 240 | 544 | 1,500 | 660 E | 1,500 O | 6,900 A |
| Anthracene | **3.9** | J | **54** | | 110 | | 12.0 | U | 130 | | 150 | | 10 | | 57 | 845 | 10 | | | 260 M | 47 | 85 | 245 | 1,100 | 280 E | 960 O | 13,000 A |
| Fluoranthene | **30** | | **310** | | 720 | | **6.2** | J | **240** | | 640 | | **160** | | 423 | 2,230 | 31 | 111 | 2,355 | 1,500 M | 113 | 600 | 1,494 | 5,100 | 1,300 E | 2,500 O | 30,000 A |
| Pyrene | **29** | | 300 | | 690 | | 12.0 | U | 220 | | 590 | | **140** | | 195 | 1,520 | 44 | 53 | 875 | 1,000 I | 153 | 665 | 1,398 | 2,600 | 2,400 E | 3,300 O | 16,000 AX |
| Benz[a]anthracene | **18** | | **90** | | 220 | | 12.0 | U | **64** | | 200 | | **74** | | 108 | 1,050 | 16 | 32 | 385 | 500 I | 75 | 261 | 693 | 1,600 | 960 E | | |
| Chrysene | **32** | | **160** | | 330 | | 12.0 | U | **120** | | 320 | | **100** | | 166 | 1,290 | 27 | 57 | 862 | 800 I | 108 | 384 | 846 | 2,800 | 950 E | 2,800 O | 9,200 AX |
| Benzo[b]fluoranthene | **39** | | **160** | | 250 | | 12.0 | U | 120 | | 260 | | **120** | | 27 | 13,400 | | | | | | | | | 1,800 EI | 3,600 O | 9,900 X |
| Benzo[k]fluoranthene | **30** | | **130** | | 250 | | 12.0 | U | **74** | | 200 | | **70** | | | | 27 | | | 13,400 B | | | | | 1,800 EI | 3,600 O | 9,900 X |
| Benzo[a]pyrene | **18** | | **130** | | 260 | | 12.0 | U | **67** | | 210 | | **76** | | | | 32 | 32 | 782 | 700 I | 89 | 430 | 763 | 1,600 | 1,100 E | 1,600 O | 3,600 X |
| Indeno[1,2,3-cd]pyrene | **32** | | **140** | | 220 | | 12.0 | U | **59** | | 170 | | **80** | | | | 17 | | | 330 M | | | | | 600 M | 690 O | 2,600 X |
| Dibenz[a,h]anthracene | **23** | | **30** | J | 52 | | 12.0 | U | **11** | J | 38 | | **15** | | 33 | | 10 | | | 100 M | 6.2 | 63 | 135 | 260 | 230 OM | | |
| Benzo[g,h,i]perylene | **35** | | **140** | | **210** | | 12.0 | U | **64** | | **170** | | **75** | | | | | | | 300 M | | | | | 670 M | 720 O | 2,600 X |
| **Total PAH** | **321** | | **1,910** | | **3,884** | | **<12** | | **1,407** | | **3,579** | | **1,020** | | **1,610** | **22,800** | **264** | | | **12,000 M** | **1,684** | **4,022** | **16,770** | **44,792** | | | |
| **Inorganics (%)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Organic Carbon (Run 1) | **1.5** | | **7.4** | | **4.0** | | **5.3** | | **8.5** | | **8.0** | | **5.2** | | | | | | | | | | | | | | |
| Total Organic Carbon (Run 2) | **1.8** | | **7.5** | | **4.1** | | **5.5** | | **8.7** | | **8.2** | | **5.3** | | | | | | | | | | | | | | |

**Notes:**

(1) Analysis from all samples presented on this table were conducted based on composite samples.

(2) MacDonald, D.D., C.G. Ingersoll, and T.A. Berger, 2000, Development and Evaluation of Consensus-based Sediment Quality Guidelines for Freshwater Ecosystems. *Archives of Environmental Contamination and Toxicology*, **39** 20-31.

(3) Buchman, M.F., 1999, NOAA Screening Quick Reference Tables, NOAA HAZMAT report 99-1, Seattle, WA. Coastal Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12p.

(4) Effect is lowest value among AET levels: I - Infaunal community impacts; A - Amphipod; B - Bivalve; M - Microtox; O - Oyster larvae; E - Echinoderm Larvae; L - $Larval_{max}$; N - *Neanthes* bioassays; x - Benthic organisms

(5) Measured concentrations could be lab-induced issue (pers. comm, Liz Porter, Alpha Lab, 17-Jan-06).

(6) Source for TEC for Barium: USEPA, 1977 (from Lori Siegel, NHDES)

(7) Barrick, R., S. Becker, L. Brown, H. Beller, and R. Pastorok, 1988, Sediment quality values refinement: 1988 update and evaluation of Puget Sound AET. V. 1, Prepared for the Puget Sound Estuary Program (data taken from USEPA, 1997)

*Lab Flags:* J = Estimated value, below quantification limit.
B = Found in the associated blank as well as sample.
U = The analyte was analyzed for but not detected at the sample specific level reported.
P = Greater than 40% RPD between the two columns, the higher value is reported according to the method
I = Due to interference , the lower value is reported.

*Data:* 5 No-bold: Undetected.
**66 Bold:** A concentration was detected above the reporting limit.

*Exceedance of Freshwater guideline values:*
**66 Bold:** A detected concentration exceeded the freshwater TEC.
**66 Bold:** A detected concentration exceeded the freshwater PEC.

*Exceedance of Saltwater guideline values:*
**66 Bold in blue field:** A detected concentration exceeded the marine water TEL.
**66 Bold in red field:** A detected concentration exceeded the marine water PEL.

Notes: Sampling Date: 30-Nov-06 (TR-S1 to TR-S5)
19-Apr-07 (TR-S6 to TR-S11)

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# Table 9 – Taylor River Pond Dam Impoundment
## Sediment Quality - Hazard Quotient

| SAMPLE ID | TR-S1 | | | | TR-S5 | | | | TR-S2 | | | | TR-S4 | | | | TR-S6 | | | | TR-S7 | | | | TR-S11 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL |
| | Downstream of Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | |
| | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level |
| **Metals (mg/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 1.23 | 0.36 | 1.66 | 0.29 | 3.68 | 1.09 | 4.97 | 0.87 | 1.74 | 0.52 | 2.35 | 0.41 | 2.45 | 0.73 | 3.31 | 0.58 | 2.86 | 0.85 | 3.87 | 0.67 | 2.66 | 0.79 | 3.59 | 0.63 | 2.15 | 0.64 | 2.90 | 0.50 |
| Barium *(6)* | 1.80 | | | | 6.50 | | | | 4.15 | | | | 2.10 | | | | 6.00 | | | | 6.00 | | | | 4.35 | | | |
| Cadmium | 0.16 | 0.03 | 0.24 | 0.04 | 1.21 | 0.24 | 1.78 | 0.29 | 0.54 | 0.11 | 0.78 | 0.13 | 0.19 | 0.04 | 0.28 | 0.05 | 0.88 | 0.17 | 1.29 | 0.21 | 0.98 | 0.19 | 1.43 | 0.23 | 0.56 | 0.11 | 0.81 | 0.13 |
| Chromium | 0.92 | 0.36 | 0.76 | 0.25 | 1.01 | 0.40 | 0.84 | 0.27 | 0.65 | 0.25 | 0.54 | 0.17 | 0.78 | 0.31 | 0.65 | 0.21 | 0.85 | 0.33 | 0.71 | 0.23 | 0.88 | 0.34 | 0.73 | 0.24 | 0.83 | 0.32 | 0.69 | 0.22 |
| Copper | 0.44 | 0.09 | 0.75 | 0.13 | 1.11 | 0.23 | 1.87 | 0.32 | 0.57 | 0.12 | 0.96 | 0.17 | 0.47 | 0.10 | 0.80 | 0.14 | 0.89 | 0.19 | 1.50 | 0.26 | 0.89 | 0.19 | 1.50 | 0.26 | 0.60 | 0.13 | 1.02 | 0.18 |
| Lead | 0.70 | 0.20 | 0.83 | 0.22 | 2.43 | 0.68 | 2.88 | 0.78 | 0.89 | 0.25 | 1.06 | 0.29 | 0.25 | 0.07 | 0.29 | 0.08 | 1.68 | 0.47 | 1.98 | 0.53 | 1.56 | 0.44 | 1.85 | 0.50 | 0.92 | 0.26 | 1.09 | 0.29 |
| Mercury | 0.09 | 0.02 | 0.13 | 0.02 | 1.17 | 0.20 | 1.62 | 0.30 | 0.53 | 0.09 | 0.73 | 0.14 | 0.22 | 0.04 | 0.30 | 0.06 | 1.44 | 0.25 | 2.00 | 0.37 | 1.17 | 0.20 | 1.62 | 0.30 | 0.67 | 0.11 | 0.92 | 0.17 |
| Nickel | 1.23 | 0.58 | 1.76 | 0.65 | 1.67 | 0.78 | 2.39 | 0.89 | 0.93 | 0.43 | 1.32 | 0.49 | 1.10 | 0.51 | 1.57 | 0.58 | 1.37 | 0.64 | 1.95 | 0.72 | 1.37 | 0.64 | 1.95 | 0.72 | 1.28 | 0.60 | 1.82 | 0.68 |
| Zinc | 0.55 | 0.14 | 0.53 | 0.24 | 1.98 | 0.52 | 1.94 | 0.89 | 0.91 | 0.24 | 0.89 | 0.41 | 0.46 | 0.12 | 0.45 | 0.21 | 1.49 | 0.39 | 1.45 | 0.66 | 1.49 | 0.39 | 1.45 | 0.66 | 1.07 | 0.28 | 1.05 | 0.48 |
| **Pesticides by 8081 (ug/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,4'-DDD | 0.31 | 0.05 | 1.23 | 0.19 | 4.92 | 0.86 | 19.67 | 3.07 | 1.39 | 0.24 | 5.57 | 0.87 | 0.55 | 0.10 | 2.21 | 0.35 | 2.46 | 0.43 | 9.84 | 1.54 | 1.05 | 0.18 | 4.18 | 0.65 | 0.51 | 0.09 | 2.05 | 0.32 |
| 4,4'-DDE | 2.37 | 0.24 | 3.62 | 0.02 | 19.30 | 1.95 | 29.47 | 0.16 | 5.06 | 0.51 | 7.73 | 0.04 | 0.85 | 0.09 | 1.30 | 0.01 | 6.96 | 0.70 | 10.63 | 0.06 | 6.01 | 0.61 | 9.18 | 0.05 | 1.93 | 0.19 | 2.95 | 0.02 |
| 4,4'-DDT | 0.99 | 0.07 | 3.45 | 0.86 | 3.85 | 0.25 | 13.45 | 3.35 | 2.09 | 0.14 | 7.31 | 1.82 | 0.65 | 0.04 | 2.27 | 0.57 | 0.53 | 0.03 | 1.85 | 0.46 | 0.36 | 0.02 | 1.26 | 0.31 | 0.43 | 0.03 | 1.51 | 0.38 |
| Aldrin | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| alpha-BHC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| alpha-Chlordane | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| beta-BHC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| delta-BHC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dieldrin | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endosulfan I | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endosulfan II | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endosulfan sulfate | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endrin | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endrin aldehyde | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endrin ketone | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| gamma-BHC (Lindane) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| gamma-Chlordane | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heptachlor | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heptachlor epoxide (B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methoxychlor | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Toxaphene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Polychlorinated Biphenyls by 8082 (ug/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1221 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1232 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1242 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1248 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total PCBs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Semi-Volatile Organics by 8270 (ug/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| bis(2-Chloroethyl)ether | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

# Table 9 – Taylor [illegible] Pond Dam Impoundment
## Sediment Quali[illegible] Hazard Quotient

| SAMPLE ID | TR-S1 | | | | TR-S5 | | | | TR-S2 | | | | TR-S4 | | | | TR-S6 | | | | TR-S7 | | | | TR-S11 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL |
| | Downstream of Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | |
| | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level |
| Benzyl alcohol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| bis(2-chloroisopropyl)ether | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylphenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hexachloroethane | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| n-Nitroso-di-n-propylamine | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Methylphenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nitrobenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Isophorone | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Nitrophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzoic acid *(5)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| bis(2-Chloroethoxy)methane | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Naphthalene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Chloroaniline | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hexachlorocyclopentadiene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Nitroaniline | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimethylphthalate | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Nitroaniline | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dinitrophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dibenzofuran | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Nitrophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diethylphthalate | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Nitroaniline | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| n-Nitrosodiphenylamine | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pentachlorophenol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbazole | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Di-n-butylphthalate | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Butylbenzylphthalate | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,3'-Dichlorobenzidine | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Di-n-octylphthalate | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthylene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fluorene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenanthrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anthracene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fluoranthene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pyrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benz[a]anthracene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(also analyzed with the more sensitive Method 8270 - see below)

# Table 9 – Taylor River Pond Dam Impoundment
## Sediment Quality - Hazard Quotient

| SAMPLE ID | TR-S1 | | | | TR-S5 | | | | TR-S2 | | | | TR-S4 | | | | TR-S6 | | | | TR-S7 | | | | TR-S11 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL | TEC | PEC | TEL | PEL |
| | Downstream of Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | | Lower Impoundment | | | |
| | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level | Consensus Effect Concentr. | Probable Effect Concentr. | Threshold Effects Level | Probable Effects Level |
| Chrysene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo[b]fluoranthene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo[k]fluoranthene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo[a]pyrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indeno[1,2,3-cd]pyrene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dibenz[a,h]anthracene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo[g,h,i]perylene | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Semi-Volatile Organics by 8270 - SIM (ug/kg)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Naphthalene | | | | | 0.11 | 0.04 | 0.58 | 0.05 | 0.11 | 0.03 | 0.55 | 0.05 | | | | | 0.08 | 0.02 | 0.40 | 0.04 | 0.11 | 0.04 | 0.58 | 0.05 | 0.03 | 0.01 | 0.15 | 0.01 |
| 2-Methylnaphthalene | | | | | | | | | | | 0.69 | 0.07 | | | | | | | 0.49 | 0.05 | | | 0.79 | 0.08 | | | | |
| Acenaphthylene | | 0.04 | 1.19 | 0.05 | | 0.48 | 13.12 | 0.60 | | 0.88 | 23.85 | 1.09 | | | | | | 0.24 | 6.47 | 0.30 | | 0.69 | 18.74 | 0.86 | | 0.11 | 3.07 | 0.14 |
| Acenaphthene | | | | | | | | | | 0.05 | 2.09 | 0.16 | | | | | | | | | | 0.06 | 2.53 | 0.19 | | | | |
| Fluorene | | | | | | | | | 0.32 | 0.05 | 1.18 | 0.17 | | | | | 0.23 | 0.03 | 0.85 | 0.12 | 0.49 | 0.07 | 1.79 | 0.26 | 0.11 | 0.02 | 0.40 | 0.06 |
| Phenanthrene | 0.06 | 0.01 | 0.14 | 0.02 | 0.54 | 0.09 | 1.27 | 0.20 | 1.76 | 0.31 | 4.15 | 0.66 | | | | | 0.74 | 0.13 | 1.73 | 0.28 | 2.11 | 0.37 | 4.96 | 0.79 | 0.28 | 0.05 | 0.67 | 0.11 |
| Anthracene | 0.07 | 0.00 | 0.08 | 0.02 | 0.94 | 0.06 | 1.15 | 0.22 | 1.92 | 0.13 | 2.35 | 0.45 | | | | | 2.27 | 0.15 | 2.77 | 0.53 | 2.62 | 0.18 | 3.20 | 0.61 | 0.17 | 0.01 | 0.21 | 0.04 |
| Fluoranthene | 0.07 | 0.01 | 0.27 | 0.02 | 0.73 | 0.14 | 2.75 | 0.21 | 1.70 | 0.32 | 6.38 | 0.48 | | | | | 0.57 | 0.11 | 2.13 | 0.16 | 1.51 | 0.29 | 5.67 | 0.43 | 0.38 | 0.07 | 1.42 | 0.11 |
| Pyrene | 0.15 | 0.02 | 0.19 | 0.02 | 1.54 | 0.20 | 1.97 | 0.21 | 3.54 | 0.45 | 4.52 | 0.49 | 0.06 | 0.01 | 0.08 | 0.01 | 1.13 | 0.14 | 1.44 | 0.16 | 3.03 | 0.39 | 3.86 | 0.42 | 0.72 | 0.09 | 0.92 | 0.10 |
| Benz[a]anthracene | 0.17 | 0.02 | 0.24 | 0.03 | 0.83 | 0.09 | 1.20 | 0.13 | 2.04 | 0.21 | 2.94 | 0.32 | | | | | 0.59 | 0.06 | 0.86 | 0.09 | 1.85 | 0.19 | 2.67 | 0.29 | 0.69 | 0.07 | 0.99 | 0.11 |
| Chrysene | 0.19 | 0.02 | 0.30 | 0.04 | 0.96 | 0.12 | 1.48 | 0.19 | 1.99 | 0.26 | 3.06 | 0.39 | | | | | 0.72 | 0.09 | 1.11 | 0.14 | 1.93 | 0.25 | 2.97 | 0.38 | 0.60 | 0.08 | 0.93 | 0.12 |
| Benzo[b]fluoranthene | 1.43 | 0.00 | | 0.02 | 5.88 | 0.01 | | 0.09 | 9.19 | 0.02 | | 0.14 | | | | | 4.41 | 0.01 | | 0.07 | 9.56 | 0.02 | | 0.14 | 4.41 | 0.01 | | 0.07 |
| Benzo[k]fluoranthene | 1.10 | 0.00 | | 0.02 | 4.78 | 0.01 | | 0.07 | 9.19 | 0.02 | | 0.14 | | | | | 2.72 | 0.01 | | 0.04 | 7.35 | 0.01 | | 0.11 | 2.57 | 0.01 | | 0.04 |
| Benzo[a]pyrene | 0.56 | 0.03 | 0.20 | 0.02 | 4.01 | 0.19 | 1.46 | 0.17 | 8.02 | 0.37 | 2.93 | 0.34 | | | | | 2.07 | 0.10 | 0.75 | 0.09 | 6.48 | 0.30 | 2.36 | 0.28 | 2.35 | 0.11 | 0.86 | 0.10 |
| Indeno[1,2,3-cd]pyrene | 1.85 | 0.10 | | 0.05 | 8.08 | 0.42 | | 0.23 | 12.70 | 0.67 | | 0.37 | | | | | 3.41 | 0.18 | | 0.10 | 9.82 | 0.52 | | 0.28 | 4.62 | 0.24 | | 0.13 |
| Dibenz[a,h]anthracene | 0.70 | 0.23 | 3.70 | 0.17 | 0.91 | 0.30 | 4.82 | 0.22 | 1.58 | 0.52 | 8.36 | 0.39 | | | | | 0.33 | 0.11 | 1.77 | 0.08 | 1.15 | 0.38 | 6.11 | 0.28 | 0.45 | 0.15 | 2.41 | 0.11 |
| Benzo[g,h,i]perylene | | 0.12 | | 0.05 | | 0.47 | | 0.21 | | 0.70 | | 0.31 | | | | | | 0.21 | | 0.10 | | 0.57 | | 0.25 | | 0.25 | | 0.11 |
| **Total PAH** | 0.20 | 0.01 | 0.19 | 0.02 | 1.19 | 0.08 | 1.13 | 0.11 | 2.41 | 0.17 | 2.31 | 0.23 | | | | | 0.87 | 0.06 | 0.84 | 0.08 | 2.22 | 0.16 | 2.13 | 0.21 | 0.63 | 0.04 | 0.61 | 0.06 |

**Key:**

1.90 Exceedance of TEC (Consensus Effect Concentration) - Freshwater
1.90 Exceedance of PEC (Probable Effect Concentration) - Freshwater
1.90 Exceedance of TEL (Consensus Effect Concentration) - Marine water
1.90 Exceedance of PEL (Probable Effect Concentration) - Marine water

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# Table 10 – Taylor River Pond Dam Impoundment
## Sediment Quality - Volatile Organic Compounds

| SAMPLE ID (1) | Sediment Concentrations in Taylor River Impoundment | | | | | | | | | | Freshwater Criteria (using Corg/Water Partitioning Coefficient) | | | | Marine Water Criteria (using Corg/Water Partitioning Coefficient) | | | | Barrick, et al., 1988 (4) | | $K_{oc}$ (L/kg) | Ambient Water Quality Criteria (2) Chronic Criteria (CCC) (ug/L) | | SQAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TR-S1 | | TR-S2 | | TR-S5 | | TR-S4 | | Trip Blank | | TR-S1 | TR-S2 | TR-S5 | TR-S4 | TR-S1 | TR-S2 | TR-S5 | TR-S4 | AET-L | AET-H | Soil $C_{org}$/water Partition Coefficient (6) | Fresh-water | Marine | (ug/$g_{oc}$) |
| | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | | | | | | | | | Apparent Effects Threshold - Low (3) | Apparent Effects Threshold - High (3) | | | | USEPA, 1997 |
| **Volatile Organics by 8260 (ug/kg)** (Range of Method Detection Limits for these compounds: **0.13 - 0.97 ug/kg**) | | | | | | | | | | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Chloromethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Vinyl chloride | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 1.86E+01 | | | |
| Bromomethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Chloroethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Trichlorofluoromethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Acetone (5) | **3.2** | JB | **200** | B | **21** | JB | 25 | U | 5.0 | U | | | | | | | | | | | 5.75E-01 | | | |
| 1,1-Dichloroethene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Carbon disulfide | 1.8 | U | **24** | | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 4.57E+01 | | | |
| Methylene chloride | **1.3** | JB | **8.6** | JB | 51 | U | 25 | U | **1.9** | JB | | | | | 1,236 | 3,033 | 5,579 | 4,044 | | | 1.17E+01 | | 6,400 | |
| Methyl tert-butyl ether (MTB | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| trans-1,2-Dichloroethene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 3.16E+01 | | | |
| Vinyl acetate | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 5.25E+00 | | | |
| 2-Butanone (MEK) | 1.8 | U | **53** | | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 2,2-Dichloropropane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Chloroform | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | 814 | 1,999 | 3,677 | 2,665 | | | | | | | 3.98E+01 | 1,240 | | |
| 1,1,1-Trichloroethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 1.10E+02 | | | 17,000 |
| 1,1-Dichloropropene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Carbon tetrachloride | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 1.74E+02 | | | |
| Benzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | 680 | 1,670 | 3,072 | 2,226 | | | 5.89E+01 | | 700 | |
| 1,2-Dichloroethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | 5,742 | 14,094 | 25,926 | 18,792 | | | | | | | 1.74E+01 | 20,000 | | |
| Trichloroethene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | 210,000 |
| Dibromomethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | 6,400 | |
| 1,2-Dichloropropane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 4.37E+01 | | | |
| Bromodichloromethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 5.50E+01 | | | |
| 2-Chloroethylvinyl ether | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Methyl isobutyl ketone (MIB | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Toluene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | 15,015 | 36,855 | 67,795 | 49,140 | | | 1.82E+02 | | 5,000 | 89,000 |
| trans-1,3-Dichloropropene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | 7,771 | 19,073 | 35,085 | 25,431 | | | | | | | 5.01E+01 | 9,400 | | |
| 2-Hexanone | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Tetrachloroethene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | 57 X | 140 O | | | | 53,000 |
| 1,3-Dichloropropane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Dibromochloromethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,2-Dibromoethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Chlorobenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | 181 | 443 | 816 | 591 | 466 | 1,144 | 2,105 | 1,526 | | | 2.19E+02 | 50 | 129 | 82,000 |
| 1,1,1,2-Tetrachloroethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | 160,000 |
| Ethylbenzene | **2.2** | | **13** | | 21 | U | 9.8 | U | **3.5** | | | | | | | | | | 10 X | 37 O | 3.63E+02 | | | 480,000 |
| p/m-Xylene | **7.6** | | **40** | | 41 | U | 20 | U | **12** | | | | | | | | | | 40 X | 120 O | 4.00E+02 | | | 2,500 |
| o-Xylene | **1.4** | J | **7.2** | J | 21 | U | 9.8 | U | **1.9** | J | | | | | | | | | 40 X | 120 O | 3.63E+02 | | | 2,500 |
| Styrene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 7.76E+02 | | | |
| Bromoform | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | 8.71E+01 | | | |
| Isopropylbenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | 3,695 | 9,069 | 16,682 | 12,092 | | | | | | | 9.33E+01 | 2,400 | | |
| Bromobenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,2,3-Trichloropropane | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |

# Table 10 – Taylor River Pond Dam Impoundment
## Sediment Quality - Volatile Organic Compounds

| SAMPLE ID (1) | Sediment Concentrations in Taylor River Impoundment | | | | | | | | | | Freshwater Criteria (using Corg/Water Partitioning Coefficient) | | | | Marine Water Criteria (using Corg/Water Partitioning Coefficient) | | | | Barrick, et al., 1988 (4) | | $K_{oc}$ (L/kg) | Ambient Water Quality Criteria (2) Chronic Criteria (CCC) (ug/L) | | SQAL (ug/$g_{oc}$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TR-S1 | | TR-S2 | | TR-S5 | | TR-S4 | | Trip Blank | | TR-S1 | TR-S2 | TR-S5 | TR-S4 | TR-S1 | TR-S2 | TR-S5 | TR-S4 | AET-L Apparent Effects Threshold - Low (3) | AET-H Apparent Effects Threshold - High (3) | Soil $C_{org}$/water Partition Coefficient (6) | Fresh-water | Marine | USEPA, 1997 |
| | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | Conc. | Qual | | | | | | | | | | | | | | |
| n-Propylbenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 2-Chlorotoluene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 4-Chlorotoluene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| tert-Butylbenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| sec-Butylbenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| p-Isopropyltoluene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | 7,768 | 19,066 | 35,072 | 25,422 | 1,313 | 3,224 | 5,930 | 4,298 | | | 6.17E+02 | 763 | 129 | |
| n-Butylbenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | 7,768 | 19,066 | 35,072 | 25,422 | 1,313 | 3,224 | 5,930 | 4,298 | 50 OX | 50 OX | 6.17E+02 | 763 | 129 | 34,000 |
| 1,2-Dibromo-3-chloropropar | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | 1,469 | 3,605 | 6,631 | 4,806 | 3,789 | 9,300 | 17,107 | 12,399 | 51 A | 64 O | 1.78E+03 | 50 | 129 | 920,000 |
| Hexachlorobutadiene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | 11 X | 270 O | | 9.3 | | |
| 1,2,3-Trichlorobenzene | 1.8 | U | 10 | U | 21 | U | 9.8 | U | 2.0 | U | | | | | | | | | | | | | | |
| Naphthalene | 1.8 | U | 10 | U | **25** | | 9.8 | U | 2.0 | U | (also analyzed with Method 8270) (see **Table 7&8**) | | | | | | | | | | | | | |

**Notes:**

*(1)* Analysis for the Volatile Organics were conducted from individual samples: VOCs from samples TR-S1, TR-S2, and TRS4 were obtained from the respective subsample 2 of 3; VOCs from sample TR-S5 were obtained from subsample 1 of 2.

*(2) Buchman, M.F., 1999, NOAA Screening Quick Reference Tables, NOAA HAZMAT report 99-1, Seattle, WA, Coastal Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12p.*

*(3)* Sediment concentration based on: A - Amphipod; O - Oyster; X - Benthic organisms

*(4)* Barrick, R., S. Becker, L. Brown, H. Beller,and R. Pastorok, 1988, Sediment quality values refinement: 1988 update and evaluation of Puget Sound AET. V. 1, Prepared for the Puget Sound Estuary Program (data taken from USEPA, 1997)

*(5)* Measured concentations could be lab-induced issue (pers. comm, Liz Porter, Alpha Lab, 17-Jan-06).

*(6)* Source: USEPA, 1996, Soil Screening Guidance: User's Guide.

*Lab Flags:* J = Estimated value, below quantification limit.
B = Found in the associated blank as well as sample.
U = The analyte was analyzed for but not detected at the sample specific level reported.

*Data:* 5 No-bold: Undected.
**66 Bold:** A concentration was detected above the reporting limit.

Notes: Sampling Date: November 30, 2006

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# Table 11: Taylor River - Fish Sampling in Spring 2007

| Date | Time Electrofished | Hours Soaked | Temp (oC) | Species | T. Length (mm) | WT (gm) | Sample # |
|---|---|---|---|---|---|---|---|
| ***Electrofishing (1)*** | | | | | | | |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 276 | 253 | 1 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 270 | 264 | 2 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 303 | 307 | 3 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 248 | 180 | 4 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 271 | 243 | 5 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 276 | 285 | 6 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 241 | 160 | 7 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 292 | 304 | 8 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 301 | 351 | 9 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 310 | 372 | 10 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 245 | 157 | 11 |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 246 | 190 | 12 |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 161 | 21 | 1w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 146 | 14 | 2w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 145 | 15 | 3w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 138 | 26 | 4w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 170 | 23 | 5w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 132 | 28 | 6w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 157 | 18 | 7w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 164 | 24 | 8w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 143 | 13 | 9w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 167 | 23 | 10w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 175 | 24 | 11w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 135 | 25 | 12w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 152 | 39 | 13w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 245 | 79 | 14w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 311 | 164 | 15w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 156 | 46 | 16w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 223 | 117 | 17w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 205 | 92 | 18w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 187 | 73 | 19w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 170 | 26 | 20w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 218 | 47 | 21w |
| 4/25/2007 | 1030-1300 | | 15 | LMB | 143 | 25 | 22w |
| 4/25/2007 | 1030-1300 | | 15 | ECP | 256 | 87 | 23w |
| ***Gill Net (2)*** | | | | | | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 361 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 446 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 503 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 358 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 344 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 341 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 500 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 420 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 448 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 376 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | 381 | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | * | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | * | | |
| 5/10/2007 | 1000 | 24 | 21 | ECP | * | | |
| 5/10/2007 | 1000 | 24 | 21 | GS | 232 | | |
| 5/10/2007 | 1000 | 24 | 21 | GS | 212 | | |
| 5/10/2007 | 1000 | 24 | 21 | GS | * | | |
| 5/10/2007 | 1000 | 24 | 21 | RH | 299 | | |

| | |
|---|---|
| BBH | -Brown Bullhead |
| BC | -Black Crappie |
| BG | -Bluegill |
| ECP | -Eastern Chain Pickerel |
| GS | -Golden Shiner |
| LMB | -Largemouth Bass |
| PMK | -Pumpkinseed |
| RBS | -Redbreasted Sunfish |
| RH | -River Herring |
| UNK | -Unknown |

| Date | Time Electrofished | Hours Soaked | Temp (oC) | Species | T. Length (mm) | WT (gm) | Sample # |
|---|---|---|---|---|---|---|---|
| 5/10/2007 | 1000 | 24 | 21 | RH | 289 | | |
| 5/10/2007 | 1000 | 24 | 21 | RH | 264 | | |
| 5/10/2007 | 1000 | 24 | 21 | RH | * | | |
| 5/10/2007 | 1000 | 24 | 21 | BBH | 235 | 166 | 36 |
| 5/10/2007 | 1000 | 24 | 21 | BG | * | | |
| 5/11/2007 | 1100 | 25 | 19 | ECP | 468 | 605 | |
| 5/11/2007 | 1100 | 25 | 19 | ECP | 440 | 498 | |
| 5/11/2007 | 1100 | 25 | 19 | ECP | 573 | 1212 | |
| 5/11/2007 | 1100 | 25 | 19 | ECP | * | | |
| 5/11/2007 | 1100 | 25 | 19 | BBH | 290 | 357 | 37 |
| 5/11/2007 | 1100 | 25 | 19 | BBH | * | | |
| 5/11/2007 | 1100 | 25 | 19 | RH | 283 | 218 | |
| 5/11/2007 | 1100 | 25 | 19 | GS | * | | |
| 5/11/2007 | 1100 | 25 | 19 | BG | * | | |
| 5/15/2007 | 1000 | 23 | 17 | RH | 282 | 200 | |
| 5/15/2007 | 1000 | 23 | 17 | RH | 311 | 300 | |
| 5/15/2007 | 1000 | 23 | 17 | RH | 272 | 200 | |
| 5/15/2007 | 1000 | 23 | 17 | RH | 263 | 150 | |
| 5/15/2007 | 1000 | 23 | 17 | RH | * | | |
| 5/15/2007 | 1000 | 23 | 17 | RH | * | | |
| 5/15/2007 | 1000 | 23 | 17 | RH | * | | |
| 5/15/2007 | 1000 | 23 | 17 | RH | * | | |
| 5/15/2007 | 1000 | 23 | 17 | RH | * | | |
| 5/15/2007 | 1000 | 23 | 17 | LMB | 210 | 150 | |
| 5/15/2007 | 1000 | 23 | 17 | ECP | 427 | 450 | |
| 5/15/2007 | 1000 | 23 | 17 | ECP | 393 | 400 | |
| 5/15/2007 | 1000 | 23 | 17 | GS | 222 | | |
| 5/15/2007 | 1000 | 23 | 17 | PMK | 163 | 100 | |
| 5/15/2007 | 1000 | 23 | 17 | PMK | * | | |
| 5/15/2007 | 1000 | 23 | 17 | PMK | * | | |
| 5/16/2007 | 1000 | 24 | 13 | ECP | 473 | | |
| 5/16/2007 | 1000 | 24 | 13 | BG | 226 | | |
| 5/16/2007 | 1000 | 24 | 13 | RBS | 149 | | |
| 5/16/2007 | 1000 | 24 | 13 | RBS | 142 | | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | 305 | 150 | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | 268 | 150 | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | 293 | 150 | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | 277 | 150 | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | 304 | 250 | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | 271 | 200 | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | 293 | 150 | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | * | | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | * | | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | * | | |
| 5/17/2007 | 1030 | 24.5 | 14 | RH | * | | |
| 5/17/2007 | 1030 | 24.5 | 14 | PMK | * | | |
| 5/17/2007 | 1030 | 24.5 | 14 | GS | * | | |
| 5/18/2007 | 1300 | 26.5 | 11 | No fish present | | | |
| 5/30/2007 | 930 | 24 | 22 | BC | 335 | | |
| 5/30/2007 | 930 | 24 | 22 | BBH | 248 | 291 | 38 |
| 5/30/2007 | 930 | 24 | 22 | BBH | 267 | 295 | 39 |
| 5/30/2007 | 930 | 24 | 22 | ECP | * | | |
| 5/30/2007 | 930 | 24 | 22 | ECP | * | | |
| 5/30/2007 | 930 | 24 | 22 | ECP | * | | |
| 5/30/2007 | 930 | 24 | 22 | PMK | * | | |
| 5/31/2007 | 1100 | 22.5 | 22 | ECP | 391 | | |
| 5/31/2007 | 1100 | 22.5 | 22 | ECP | 368 | | |

| | |
|---|---|
| BBH | -Brown Bullhead |
| BC | -Black Crappie |
| BG | -Bluegill |
| ECP | -Eastern Chain Pickerel |
| GS | -Golden Shiner |
| LMB | -Largemouth Bass |
| PMK | -Pumpkinseed |
| RBS | -Redbreasted Sunfish |
| RH | -River Herring |
| UNK | -Unknown |

| Date | Time Electrofished | Hours Soaked | Temp (oC) | Species | T. Length (mm) | WT (gm) | Sample # |
|---|---|---|---|---|---|---|---|
| 5/31/2007 | 1100 | 22.5 | 22 | ECP | * | | |
| 5/31/2007 | 1100 | 22.5 | 22 | LMB | 280 | | |
| 5/31/2007 | 1100 | 22.5 | 22 | BBH | * | | |
| 6/1/2007 | 1530 | 28.5 | 24 | ECP | 396 | | |
| 6/1/2007 | 1530 | 28.5 | 24 | ECP | 410 | | |
| 6/1/2007 | 1530 | 28.5 | 24 | ECP | 398 | | |
| 6/1/2007 | 1530 | 28.5 | 24 | ECP | 463 | | |
| 6/1/2007 | 1530 | 28.5 | 24 | ECP | 418 | | |
| 6/1/2007 | 1530 | 28.5 | 24 | GS | 238 | | |
| 6/1/2007 | 1530 | 28.5 | 24 | GS | 207 | | |
| 6/1/2007 | 1530 | 28.5 | 24 | GS | * | | |
| 6/1/2007 | 1530 | 28.5 | 24 | LMB | * | | |
| 6/2/2007 | 1530 | 24 | 25 | ECP | 461 | | |
| 6/2/2007 | 1530 | 24 | 25 | PMK | 129 | | |
| 6/2/2007 | 1530 | 24 | 25 | PMK | 120 | | |
| 6/2/2007 | 1530 | 24 | 25 | PMK | 166 | | |
| 6/2/2007 | 1530 | 24 | 25 | PMK | * | | |
| 6/3/2007 | 1400 | 22.5 | 20 | GS | * | | |
| 6/3/2007 | 1400 | 22.5 | 20 | GS | * | | |
| 6/4/2007 | 1230 | 22.5 | 16 | ECP | 354 | | |
| 6/4/2007 | 1230 | 22.5 | 16 | ECP | * | | |
| 6/4/2007 | 1230 | 22.5 | 16 | BG | * | | |
| 6/5/2007 | 1345 | 25.25 | 15 | ECP | 356 | | |
| 6/5/2007 | 1345 | 25.25 | 15 | ECP | 495 | | |
| 6/5/2007 | 1345 | 25.25 | 15 | ECP | * | | |
| 6/5/2007 | 1345 | 25.25 | 15 | RH | 289 | | |
| 6/5/2007 | 1345 | 25.25 | 15 | LMB | | | |
| 6/6/2007 | 1230 | 22.75 | 16 | ECP | 518 | | |
| 6/6/2007 | 1230 | 22.75 | 16 | ECP | 383 | | |
| 6/6/2007 | 1230 | 22.75 | 16 | ECP | 385 | | |
| 6/6/2007 | 1230 | 22.75 | 16 | ECP | * | | |
| 6/6/2007 | 1230 | 22.75 | 16 | ECP | * | | |
| 6/6/2007 | 1230 | 22.75 | 16 | ECP | * | | |
| 6/6/2007 | 1230 | 22.75 | 16 | ECP | * | | |
| 6/7/2007 | 1530 | 27 | 19 | PMK | * | | |
| 6/7/2007 | 1530 | 27 | 19 | RH | * | | |
| 6/7/2007 | 1530 | 27 | 19 | ECP | 468 | | |
| 6/8/2007 | 1200 | 20.5 | 18 | PMK | 130 | | |
| 6/8/2007 | 1200 | 20.5 | 18 | GS | 223 | | |
| 6/8/2007 | 1200 | 20.5 | 18 | ECP | 383 | | |
| 6/8/2007 | 1200 | 20.5 | 18 | BBH | 168 | 67 | 40 |
| 6/9/2007 | 830 | 20.5 | 18 | ECP | * | | |
| 6/9/2007 | 830 | 20.5 | 18 | ECP | * | | |
| 6/9/2007 | 830 | 20.5 | 18 | RH | 278 | | |
| 6/10/2007 | 1330 | 29 | 17 | PMK | * | | |
| 6/10/2007 | 1330 | 29 | 17 | BG | * | | |
| 6/10/2007 | 1330 | 29 | 17 | BG | * | | |
| 6/10/2007 | 1330 | 29 | 17 | BG | * | | |
| 6/10/2007 | 1330 | 29 | 17 | ECP | * | | |
| 6/10/2007 | 1330 | 29 | 17 | BBH | 185 | 98 | 41 |
| 6/10/2007 | 1330 | 29 | 17 | BBH | 188 | 105 | 42 |
| 6/11/2007 | 1400 | 24.5 | 20 | PMK | * | | |
| 6/11/2007 | 1400 | 24.5 | 20 | BG | * | | |
| 6/11/2007 | 1400 | 24.5 | 20 | ECP | 324 | | |
| 6/11/2007 | 1400 | 24.5 | 20 | BBH | 270 | 313 | 43 |
| 6/12/2007 | 1045 | 20.75 | 19 | BC | * | | |
| 6/12/2007 | 1045 | 20.75 | 19 | BBH | 253 | 293 | 44 |

| | |
|---|---|
| BBH | -Brown Bullhead |
| BC | -Black Crappie |
| BG | -Bluegill |
| ECP | -Eastern Chain Pickerel |
| GS | -Golden Shiner |
| LMB | -Largemouth Bass |
| PMK | -Pumpkinseed |
| RBS | -Redbreasted Sunfish |
| RH | -River Herring |
| UNK | -Unknown |

| Date | Time Electrofished | Hours Soaked | Temp (oC) | Species | T. Length (mm) | WT (gm) | Sample # |
|---|---|---|---|---|---|---|---|
| 6/12/2007 | 1045 | 20.75 | 19 | UNK | * | | |
| 6/12/2007 | 1045 | 20.75 | 19 | UNK | * | | |
| 6/12/2007 | 1045 | 20.75 | 19 | Snapping Turtle | | | |
| 6/14/2007 | 1030 | 47.75 | 15 | PMK | * | | |
| 6/14/2007 | 1030 | 47.75 | 15 | PMK | * | | |
| 6/14/2007 | 1030 | 47.75 | 15 | LMB | * | | |
| 6/16/2007 | 1100 | 48.5 | 18 | ECP | * | | |
| 6/16/2007 | 1100 | 48.5 | 18 | ECP | * | | |
| 6/16/2007 | 1100 | 48.5 | 18 | ECP | 425 | | |
| 6/16/2007 | 1100 | 48.5 | 18 | ECP | 373 | | |
| 6/16/2007 | 1100 | 48.5 | 18 | BG | * | | |
| 6/16/2007 | 1100 | 48.5 | 18 | PMK | * | | |
| 6/16/2007 | 1100 | 48.5 | 18 | BBH | 392 | | |
| 6/16/2007 | 1100 | 48.5 | 18 | Snapping Turtle | | | |
| 6/17/2007 | 1200 | 25 | 22 | ECP | 340 | | |
| 6/17/2007 | 1200 | 25 | 22 | ECP | 332 | | |
| 6/18/2007 | 1330 | 25.5 | 25 | | No fish present | | |
| 6/20/2007 | 1530 | 50 | 24 | PMK | * | | |
| 6/21/2007 | 1300 | 21.5 | 24 | PMK | * | | |
| 6/21/2007 | 1300 | 21.5 | 24 | PMK | * | | |
| 6/21/2007 | 1300 | 21.5 | 24 | BG | * | | |
| 6/21/2007 | 1300 | 21.5 | 24 | ECP | * | | |
| 6/22/2007 | 1230 | 23.5 | 19 | BG | * | | |
| 6/23/2007 | 1130 | 23 | 20 | PMK | * | | |
| 6/23/2007 | 1130 | 23 | 20 | PMK | * | | |
| 6/23/2007 | 1130 | 23 | 20 | PMK | * | | |
| 6/23/2007 | 1130 | 23 | 20 | PMK | * | | |
| 6/23/2007 | 1130 | 23 | 20 | PMK | * | | |
| 6/23/2007 | 1130 | 23 | 20 | BC | * | | |
| 6/25/2007 | 1530 | 52 | 29 | BBH | 233 | 189 | **45** |
| 6/25/2007 | 1530 | 52 | 29 | BBH | 291 | 291 | **46** |
| 6/25/2007 | 1530 | 52 | 29 | BBH | 254 | 254 | **47** |
| 6/25/2007 | 1530 | 52 | 29 | BBH | * | | |
| 6/25/2007 | 1530 | 52 | 29 | BC | * | | |
| 6/25/2007 | 1530 | 52 | 29 | ECP | * | | |
| 6/25/2007 | 1530 | 52 | 29 | GS | * | | |

(1) *Species Observed:* American eel-Abundant, Golden Shiner, Bluegill, Redbreasted sunfish, Black crappie; *Species not Observed:* Yellow Perch, Common white sucker

(2) No measurement taken (either released alive, or unmeasurable due to partially eaten fish). Field samples do not contain a weight, those worked up in the office were weighed.

*Sampling Staff:* Cheri Patterson, Mike Dionne, Renee Zobel, Becky Heuss
New Hampshire Fish and Game Department

THE **Louis Berger Group,** INC.

## Table 12: Organic Compounds in Fish Tissues in Taylor River Impoundment - Summary of Laboratory Reports (ug/kg

| Sample ID | Lab ID | Large Mouth Bass | Eastern Chain Pickerel | Brown Bullhead | Whole Fish | Fillet | alpha BHC | beta BHC | delta BHC | gamma chlordane | 2,4' - DDD | 4,4' - DDD | SUM - DDD | 2,4' - DDE | 4,4' - DDE | SUM - DDE | 4,4' - DDT | Dieldrin | Endosulfan I | Heptachlor | Heptachlor epoxide | Hexachloro - benzene | cis Nonachlor | trans Nonachlor | Oxychlordane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TRF-01DL | 716576D1 | ● | | | | ● | | | | | | 3.4 D | 3.40 | | 21 D | 21.0 | 1.1 D | 0.95 D | | | | | | | |
| TRF-01W | 716577 | | ● | | ● | | | | | | | 1.7 | 1.70 | | 12 | 12.0 | 1.4 | | | | | | | | |
| TRF-02 | 716578 | ● | | | | ● | | | | | | 3.1 | 3.10 | | 25 | 25.0 | 2.1 | 1.0 | | | | | | 1.3 | |
| TRF-02W | 716579 | | ● | | ● | | | | | | 0.50 | 1.6 | 2.10 | | 11 | 11.0 | | | | | | | | | |
| TRF-03 | 716580 | ● | | | | ● | | | | | | 2.2 | 2.20 | | 10 | 10.0 | 2 | 0.42 | | | | | | 0.57 | |
| TRF-03W | 716581 | | ● | | ● | | | | | | | 0.90 | 0.90 | | 8.5 | 8.5 | 0.56 | | | | | | | | |
| TRF-04 | 716582 | ● | | | | ● | | | | | | 2.4 | 2.40 | | 29 | 29.0 | 1.6 | 0.92 | | | | | | 1.1 | |
| TRF-04W | 716583 | ● | | | ● | | | | | | | 3.4 P | 3.40 | | 33 P | 33.0 | 3.8 P | | | | | | | | |
| TRF-05 | 716584 | ● | | | | ● | | | | | | 4.8 P | 4.80 | | 28 P | 28.0 | 1.3 P | 0.87 P | | | | | | | |
| TRF-05W | 716585 | | ● | | ● | | | | | | | 0.87 | 0.87 | | 6.3 | 6.3 | | | | | | | | | |
| TRF-06 | 716586 | ● | | | | ● | | | | | 0.46 | 2.6 | 3.06 | | 14 | 14.0 | 1.2 | 0.92 | | | | | | 0.71 | |
| TRF-06W | 716587 | ● | | | ● | | | | | | 0.46 | 3.2 | 3.66 | | 17 | 17.0 | 2.1 | 0.80 | | | | | | | |
| TRF-07 | 716588 | ● | | | | ● | | | | | 1.6 P | 5.8 P | 7.40 | | 33 P | 33.0 | 2.2 P | 1.1 P | | | | | | | |
| TRF-07W | 716589 | | ● | | ● | | | | | | | 0.55 | 0.55 | | 6.2 | 6.2 | | | | | | | | | |
| TRF-08 | 716590 | ● | | | | ● | | | | | 0.70 | 2.6 | 3.30 | | 15 | 15.0 | 0.98 | 0.90 | | | | | | | |
| TRF-08W | 716591 | | ● | | ● | | | | | | | 1.0 | 1.00 | | 8.4 | 8.4 | 0.63 | | | | | | | | |
| TRF-09 | 716592 | ● | | | | ● | | | | | | 1.4 | 1.40 | | 12 | 12.0 | 0.60 | | | | | | 0.52 | 0.96 | |
| TRF-09W | 716593 | | ● | | ● | | | | | | | 2.0 | 2.00 | | 11 | 11.0 | 1.0 | 0.55 | | | | | | | |
| TRF-10 | 716594 | ● | | | | ● | | | 0.5 | | 0.66 | 2.5 | 3.16 | 0.68 | 17 | 17.7 | 1.1 P | 0.94 | | | | | | 0.83 | |
| TRF-10W | 716595 | | ● | | ● | | | | | | | 1.1 | 1.10 | | 6.0 | 6.0 | | | | | | | | | |
| TRF-11 | 716623R1 | ● | | | | ● | | | | | | 3.3 | 3.30 | | 30 | 30.0 | 2.5 | | | | | | | | |
| TRF-11W | 716624R1 | | ● | | ● | | | | | | | 0.50 | 0.50 | | 8.9 | 8.9 | 0.93 P | | | | | | | | |
| TRF-12 | 716625R1 | | | | | ● | | | | | | 4.4 | 4.40 | | 41 | 41.0 | 2.8 | | | | | | | | |
| TRF-12W | 716626 | ● | | | ● | | | | | | | 0.52 | 0.52 | | 3.0 | 3.0 | | | | | | | | | |
| TRF-13W | 716627 | ● | | | ● | | | | | | 0.93 | 6.2 | 7.13 | | 32 | 32.0 | 2.5 | 1.5 | | | | | | | |
| TRF-14W | 716628 | | ● | | ● | | | | | | | 3.8 | 3.80 | | 65 | 65.0 | 11 | | | | | | | 2.6 | |
| TRF-15W | 716629 | | ● | | ● | | | | | | | 3.9 | 3.90 | | 38 | 38.0 | 7.1 | | | | | | | 3.4 | |
| TRF16W | 716630 | ● | | | ● | | | | | | | 1.6 | 1.60 | | 14 | 14.0 | 1.2 P | 0.61 | | | | | | | |
| TRF-17W | 716631 | ● | | | ● | | | | | | | 0.93 | 0.93 | | 16 | 16.0 | 1.2 P | | | | | | | | |
| TRF-18W | 716632 | ● | | | ● | | | | | | | 2.5 | 2.50 | | 35 | 35.0 | 4.5 | | | | | | | | |
| TRF-19W | 716633 | ● | | | ● | | | | | | | 1.6 | 1.60 | | 32 | 32.0 | 4.9 | | | | | | | | |
| TRF-20W | 716634 | | ● | | ● | | | | | | | 2.0 | 2.00 | | 13 | 13.0 | 0.93 P | 0.81 | | | | | | 0.65 | |
| TRF-21W | 716635 | | ● | | ● | | | | | | | 3.2 | 3.20 | | 32 | 32.0 | 3.6 | | | | | | | | |
| TRF-22W | 716636 | ● | | | ● | | | | | | | 1.8 | 1.80 | | 18 | 18.0 | 2.0 | 0.46 | | | | | | 0.54 | |
| TRF-23W | 716637 | | ● | | ● | | | | | | | 2.4 | 2.40 | | 31 | 31.0 | 2.3 P | | | | | | | | |
| TRF-36 | 716638 | | | ● | | ● | | | | | 0.45 | 3.0 | 3.45 | | 19 | 19.0 | 1.5 | 0.63 | | | | | | | |
| TRF-37 | 716639 | | | ● | | ● | | | | | | 0.62 | 0.62 | | 4.6 | 4.6 | 0.44 | | | | | | | | |
| TRF-38 | 716640 | | | ● | | ● | | | | | | 1.1 | 1.10 | | 6.1 | 6.1 | 0.58 | | | | | | | | |
| TRF-39 | 716641 | | | ● | | ● | | | | | | 3.6 | 3.60 | 1.7 P | 17 | 18.7 | 2.2 | 0.83 | | 0.55 | | | | | |
| TRF-40 | 716642 | | | ● | | ● | | 2.7 P | | | | 0.77 | 0.77 | | 3.0 | 3.0 | | | | | | | | | |
| TRF-41 | 716700 | | | ● | | ● | | | | 0.46 | | | 0.00 | | 0.70 | 0.7 | | | | | | | | | |
| TRF-42 | 716701 | | | ● | | ● | | | | | | 0.61 | 0.61 | | 2.8 | 2.8 | | | | 1.4 | | | | | |
| TRF-43 | 716702 | | | ● | | ● | | | | | | 1.0 | 1.00 | | 3.1 | 3.1 | | 0.44 | | 0.66 | | | | | |
| TRF-44 | 716703 | | | ● | | ● | 1.0 | | 2.3 P | 0.55 | 0.96 | 7.0 | 7.96 | | 12 | 12.0 | 0.59 | 2.6 | | 3.6 | 0.46 P | | | | |
| TRF-45 | 716704 | | | ● | | ● | | | | | | 1.5 | 1.50 | 0.63 | 6.7 | 7.3 | 0.44 | 0.50 | | 0.56 | | | | | |
| TRF-46 | 716705 | | | ● | | ● | | | | | | 13 | 13.00 | | 59 | 59.0 | 5.5 | 2.5 | | | | | | | |
| TRF-47 | 716706 | | | ● | | ● | | | | | | 2.3 | 2.30 | 0.65 | 7.7 | 8.4 | | 0.72 | | 0.80 P | | | | | |

3.7 P Greater than 40% difference for detected concentrations between two GC columns. Unless otherwise specified the higher of the two values is reported. Values flagged with a "P" were not used in the data synthesis. The data could reflect interference and thus be higher than afound in the field. .

(*) Reporting limit (RL) for all compounds, with the exceptions of toxaphene. The RL for toxaphene was 125 times the reported RL for all other compounds.

(**) Values below RL were entered as 50% of RL.

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**Table 13: Taylor River - Fish Tissue Pesticide Concentrations, as used for Human Health Assessment (ug/kg)**

| Lab ID | NH ID | 2,4' - DDD | | 4,4' - DDD | | 2,4' - DDE | | 4,4' - DDE | | 2,4' DDT | | 4,4' - DDT | | DDT (total) | Dieldrin | | Hepta-chlor | | Heptachlor epoxide | | Heptachlor (total) | gamma chlordane | | cis Nonachlor | | trans Nonachlor | | Oxy-chlordane | | Chlordane (total) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Brown Bullhead - Fillet*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 716638 | TRF-36 | 0.45 | | 3.0 | | 0.2 | U | 19 | | 0.2 | U | 1.5 | | 24.4 | 0.63 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716639 | TRF-37 | 0.2 | U | 0.62 | | 0.2 | U | 4.6 | | 0.2 | U | 0.44 | | 6.3 | 0.20 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716640 | TRF-38 | 0.2 | U | 1.1 | | 0.2 | U | 6.1 | | 0.2 | U | 0.58 | | 8.4 | 0.20 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716641 | TRF-39 | 0.2 | U | 3.6 | | 1.7 | P | 17 | | 0.2 | U | 2.2 | | 24.9 | 0.83 | | 0.6 | | 0.2 | U | 0.8 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716642 | TRF-40 | 0.225 | U | 0.77 | | 0.225 | U | 3.0 | | 0.225 | U | 0.225 | U | 4.7 | 0.23 | U | 0.2 | U | 0.2 | U | 0.5 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.9 |
| 716700 | TRF-41 | 0.2 | U | 0.2 | U | 0.2 | U | 0.70 | | 0.2 | U | 0.2 | U | 1.7 | 0.20 | U | 0.2 | U | 0.2 | U | 0.4 | 0.460 | | 0.2 | U | 0.2 | U | 0.2 | U | 1.1 |
| 716701 | TRF-42 | 0.2 | U | 0.61 | | 0.2 | U | 2.8 | | 0.2 | U | 0.2 | U | 4.2 | 0.20 | U | 1.4 | | 0.2 | U | 1.6 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716702 | TRF-43 | 0.2 | U | 1.0 | | 0.2 | U | 3.1 | | 0.2 | U | 0.2 | U | 4.9 | 0.44 | | 0.7 | | 0.2 | U | 0.9 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716703 | TRF-44 | 0.96 | | d | | 0.2 | U | 12 | | 0.2 | U | 0.59 | | 21.0 | 2.60 | | 3.6 | | 0.5 | P | 4.1 | 0.550 | | 0.2 | U | 0.2 | U | 0.2 | U | 1.2 |
| 716704 | TRF-45 | 0.2 | U | 1.5 | | 0.63 | | 6.7 | | 0.2 | U | 0.44 | | 9.7 | 0.50 | | 0.6 | | 0.2 | U | 0.8 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716705 | TRF-46 | 1 | U | 13 | | 1 | U | 59 | | 1 | U | 5.5 | | 80.5 | 2.50 | | 1.0 | U | 1.0 | U | 2.0 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 4.0 |
| 716706 | TRF-47 | 0.2 | U | 2.3 | | 0.65 | | 7.7 | | 0.2 | | 0.2 | U | 11.3 | 0.72 | | 0.8 | P | 0.2 | U | 1.0 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| ***Largemouth Bass - Fillet*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 716576 | TRF-01 | 0.40 | U | 3.40 | D | 0.40 | P | 21 | D | 0.40 | U | 1.10 | D | 26.7 | 1.00 | | 0.2 | U | 0.2 | U | 0.4 | 5.700 | | 0.4 | U | 1.0 | | 0.590 | | 7.6 |
| 716578 | TRF-02 | 0.4 | U | 3.1 | | 0.4 | U | 25 | | 0.4 | U | 2.1 | | 31.4 | 1.00 | | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |
| 716580 | TRF-03 | 0.2 | U | 2.2 | | 0.2 | U | 10 | | 0.2 | U | 2 | | 14.8 | 0.42 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.6 | | 0.2 | U | 1.2 |
| 716582 | TRF-04 | 0.4 | U | 2.4 | | 0.4 | U | 29 | | 0.4 | U | 1.6 | | 34.2 | 0.92 | | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 1.1 | | 0.4 | U | 2.3 |
| 716584 | TRF-05 | 0.4 | U | 4.8 | P | 0.4 | U | 28 | P | 0.4 | U | 1.3 | P | 35.3 | 0.87 | P | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |
| 716586 | TRF-06 | 0.46 | | 2.6 | | 0.2 | U | 14 | | 0.2 | U | 1.2 | | 18.7 | 0.92 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.7 | | 0.2 | U | 1.3 |
| 716588 | TRF-07 | 1.6 | P | 5.8 | P | 0.4 | U | 33 | P | 0.4 | U | 2.2 | P | 43.4 | 1.10 | P | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |
| 716590 | TRF-08 | 0.70 | | 2.6 | | 0.2 | U | 15 | | 0.2 | U | 0.98 | | 19.7 | 0.90 | | 0.2 | U | 0.2 | U | 0.5 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.9 |
| 716592 | TRF-09 | 0.21 | U | 1.4 | | 0.21 | U | 12 | | 0.21 | U | 0.60 | | 14.6 | 0.21 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 1.0 | | 0.2 | U | 1.6 |
| 716594 | TRF-10 | 0.66 | | 2.5 | | 0.68 | | 17 | | 0.4 | U | 1.1 | P | 22.3 | 0.94 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.8 | | 0.2 | U | 1.5 |
| 716623R1 | TRF-11 | 0.4 | U | 3.3 | | 0.4 | U | 30 | | 0.4 | U | 2.5 | | 37.0 | 0.40 | U | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |
| 716625R1 | TRF-12 | 0.6 | U | 4.4 | | 0.6 | U | 41 | | 0.6 | U | 2.8 | | 50.0 | 0.60 | U | 0.6 | U | 0.6 | U | 1.2 | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 2.4 |
| ***Largemouth Bass - Whole Fish*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 716583 | TRF-04w | 0.4 | U | 3.4 | P | 0.4 | U | 33 | P | 0.4 | U | 3.8 | P | 41.4 | 0.4 | U | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |
| 716587 | TRF-06w | 0.46 | | 3.2 | | 0.2 | U | 17 | | 0.2 | U | 2.1 | | 23.2 | 0.8 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716626 | TRF-12w | 0.2 | U | 0.52 | | 0.2 | U | 3.0 | | 0.2 | U | 0.2 | U | 4.3 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716627 | TRF-13w | 0.93 | | 6.2 | | 0.4 | U | 32 | | 0.4 | U | 2.5 | | 42.4 | 1.5 | | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |
| 716630 | TRF-16w | 0.2 | U | 1.6 | | 0.2 | U | 14 | | 0.2 | U | 1.2 | P | 17.4 | 0.6 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716631 | TRF-17w | 0.2 | U | 0.93 | | 0.2 | U | 16 | | 0.2 | U | 1.2 | P | 18.7 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716632 | TRF-18w | 0.6 | U | 2.5 | | 0.6 | U | 35 | | 0.6 | U | 4.5 | | 43.8 | 0.6 | U | 0.6 | U | 0.6 | U | 1.2 | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 2.4 |
| 716633 | TRF-19w | 0.4 | U | 1.6 | | 0.4 | U | 32 | | 0.4 | U | 4.9 | | 39.7 | 0.4 | U | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |
| 716636 | TRF-22w | 0.2 | U | 1.8 | | 0.2 | U | 18 | | 0.2 | U | 2.0 | | 22.4 | 0.5 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.5 | | 0.2 | U | 1.1 |
| ***Eastern Chain Pickerel - Whole Fish*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 716577 | TRF-01w | 0.2 | U | 1.7 | | 0.2 | U | 12 | | 0.2 | U | 1.4 | | 15.7 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716579 | TRF-02w | 0.50 | | 1.6 | | 0.2 | U | 11 | | 0.2 | U | 0.2 | U | 13.7 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716581 | TRF-03w | 0.2 | U | 0.90 | | 0.2 | U | 8.5 | | 0.2 | U | 0.56 | | 10.6 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716585 | TRF-05w | 0.2 | U | 0.87 | | 0.2 | U | 6.3 | | 0.2 | U | 0.2 | U | 8.0 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716589 | TRF-07w | 0.2 | U | 0.55 | | 0.2 | U | 6.2 | | 0.2 | U | 0.2 | U | 7.6 | | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716591 | TRF-08w | 0.2 | U | 1.0 | | 0.2 | U | 8.4 | | 0.2 | U | 0.63 | | 10.6 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716593 | TRF-09w | 0.2 | U | 2.0 | | 0.2 | U | 11 | | 0.2 | U | 1.0 | | 14.6 | 0.6 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716595 | TRF-10w | 0.2 | U | 1.1 | | 0.2 | U | 6.0 | | 0.2 | U | 0.2 | U | 7.9 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716624R1 | TRF-11w | 0.2 | U | 0.50 | | 0.2 | U | 8.9 | | 0.2 | U | 0.93 | P | 10.9 | 0.2 | U | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716628 | TRF-14w | 1 | U | 3.8 | | 1 | U | 65 | | 1 | U | 11 | | 82.8 | 1.0 | U | 1.0 | U | 1.0 | U | 2.0 | 1.0 | U | 1.0 | U | 2.6 | | 1.0 | U | 5.6 |
| 716629 | TRF-15w | 0.6 | U | 3.9 | | 0.6 | U | 38 | | 0.6 | U | 7.1 | | 50.8 | 0.6 | U | 0.6 | U | 0.6 | U | 1.2 | 0.6 | U | 0.6 | U | 3.4 | | 0.6 | U | 5.2 |
| 716634 | TRF-20w | 0.2 | U | 2.0 | | 0.2 | U | 13 | | 0.2 | U | 0.93 | P | 16.5 | 0.8 | | 0.2 | U | 0.2 | U | 0.4 | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.8 |
| 716635 | TRF-21w | 0.4 | U | 3.2 | | 0.4 | U | 32 | | 0.4 | U | 3.6 | | 40.0 | 0.4 | U | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |
| 716637 | TRF-23w | 0.4 | U | 2.4 | | 0.4 | U | 31 | | 0.4 | U | 2.3 | P | 36.9 | 0.4 | U | 0.4 | U | 0.4 | U | 0.8 | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 1.6 |

*Notes:* Data shown are in ug/kg wet weight.
U qualifier indicates Non-detect, value is one half the detection limit.
Data for all detected compunds are presented, compounds with no detects omitted.

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**Table 14: Taylor River - Summary Statistics for Contaminants in Fish Fillets**

| Species | Contaminant[1] | Number of Samples | Number of Detects | Percent Detects | Average | Maximum | 95th% UCL *(Upper Confidence Limit)* | EPA Screening Level[2] | Does 95th UCL Exceed screening level? |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ug/kg | ug/kg | ug/kg | ug/kg | |
| ***Brown Bullhead - Fillets*** | | | | | | | | | |
| | DDT (total) | 12 | 12 | 100 | 16.8 | 80.5 | 30.5 | 69 | No |
| | Heptachlor (total) | 12 | 6 | 50 | 1.10 | 3.1 | 1.73 | 2.6 | No |
| | Dieldrin | 12 | 7 | 58 | 0.77 | 2.6 | 1.33 | 1.5 | No |
| ***Largemouth Bass - Fillets*** | | | | | | | | | |
| | DDT (total) | 12 | 12 | 100 | 29.0 | 48.8 | 34.8 | 69 | No |
| | Heptachlor (total) | 12 | 7 | 58 | 0.64 | 1.2 | 0.78 | 2.6 | No |
| | Dieldrin | 12 | 9 | 75 | 0.78 | 1.1 | 1.1 | 1.5 | No |
| | Chlordane (total) | 12 | 7 | d | 2.10 | 7.64 | 4.4 | 67 | No |

Notes:

1. Contaminants shown were detected at a frequency of 10 percent or greater.
Congener totals were calculated using 1/2 the method detection limit for non-detects.
DDT(total) is the sum of dichlorodiphenyltrichloroethane(DDT), dichlorodiphenyldichloroethylene(DDE) and dichlorodiphenyldichloroethane(DDD) congeners.
Heptachlor (total) is the sum of heptachlor and heptachlor epoxide.
Chlordane (total) is the sum of oxychlordane, trans-nonachlor,cis-nonachlor and gamma chlordane.

2. The EPA screening levels represent the maximum allowable intake at the level of the statewide fish consumption advisory (4 meals per month). These values can be found in the Risk Based Consumption Limit Tables, Chapter 3 of the United States Environmental Protection Agency (EPA) Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories, Volume 2, EPA 823-B-00-008 November 2000.

## Table 15: Taylor River - Summary of Data and Ecological Risk

| | # of Samples | Average | Maximum | 95th%UCL | Fish *(represented by rainbow trout)* | Birds *(represented by Blue Heron)* | Bird *(represented by Osprey)* | Bird eggs *(represented by Osprey eggs)* | Mammals *(represented by Mink)* |
|---|---|---|---|---|---|---|---|---|---|
| | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| **Brown Bullhead** | | | | | | | | | |
| DDT (total metabolites) | 14 | 23.33 | 82.80 | 35.96 | 1270 | 16 | 14 | 8.3 | 4490 |
| Heptachlor (total metabolites) | 13 | 0.65 | 2.00 | 0.93 | | | | | 730 |
| Dieldrin | 14 | 0.39 | 1.00 | 0.54 | 1760 | 438 | 385 | | 112 |
| **Largemouth Bass** | | | | | | | | | |
| DDT (total metabolites) | 9 | 28.15 | 43.80 | 38.98 | 1270 | 16 | 14 | 8.3 | 4490 |
| Heptachlor (total metabolites) | 9 | 0.62 | 1.20 | 0.85 | | | | | 730 |
| Dieldrin | 9 | 0.58 | 1.50 | 0.88 | 1760 | 438 | 385 | | 112 |

| | 95th UCL >Fish screening level? | 95th UCL >Birds screening level? | 95th UCL >Egg screening level? | 95th UCL >Mammal screening level? |
|---|---|---|---|---|
| **Brown Bullhead** | | | | |
| DDT (total metabolites) | No | **Yes** | **Yes** | No |
| Heptachlor (total metabolites) | | | | No |
| Dieldrin | No | No | No | No |
| **Largemouth Bass** | | | | |
| DDT (total metabolites) | No | **Yes** | **Yes** | No |
| Heptachlor (total metabolites) | | | | No |
| Dieldrin | No | No | No | No |

**Table 16**
**Taylor River Dam Impoundment**

**Temperature/DO Profile**
**Recorded on Taylor River Pond, August 31, 2006**

| DEPTH (FT) | TEMP (°C) | DO (mg/L) | DO (% Saturation) |
|---|---|---|---|
| 0 | 20.5 | 7.19 | 80.7 |
| 1 | 20.3 | 6.64 | 73.2 |
| 2 | 19.8 | 6.67 | 74.4 |
| 3 | 19.7 | 6.67 | 72.4 |
| 4 | 19.7 | 6.50 | 71.0 |
| 5 | 19.5 | 6.24 | 67.7 |
| 6 | 19.3 | 5.77 | 62.9 |
| 7 | 19.3 | 4.61 | 50.2 |
| 8 | 18.9 | 3.52 | 39.2 |
| 9 | 18.3 | 1.56 | 17.2 |
| 10 | 18.0 | 2.35 | 25.1 |
| 11 | 18.0 | 0.72 | 7.0 |
| 12 | 16.9 | 0.00 | 0.0 |

*Source: NH Department of Environmental Services*

°C = degrees Celsius
DO = dissolved oxygen
mg/l = milligrams per liter

**Table 17**
**Trophic levels (after Vollenweider and Kerekes, 1982), and range of values for Taylor River Pond**

| Trophic Level | | | Total Phosphorus (*) mg/l | Chlorophyll *a* $mg/m^3$ | Secci Depth feet |
|---|---|---|---|---|---|
| Oligotrophic | | | <0.010 | <2.5 | >6 |
| Mesotrophic | | | 0.010 - 0.035 | 2.5 - 8 | 3 - 6 |
| Eutrophic | | | >0.035 | >8 | <3 |
| ***Taylor River Pond - Surface Water*** *(at a depth of 1 foot)* | | | | | |
| Sampling Events | OXY-01 | 7-May-08 | 0.024 - 0.032 | | >2.6 - 5.6 |
| | OXY-02 | 24-Jun-08 | 0.033 - 0.068 | 1.7 - 9.5 | >3.0 - 6.0 |
| | OXY-03 | 22-Jul-08 | 0.035 - 0.048 | 3.1 - 6.9 | |
| | OXY-04 | 31-Jul-08 | | 2.0 - 4.7 | >3.5 - 6.0 |
| | OXY-05 | 7-Aug-08 | 0.044 - 0.051 | 5.3 - 17.0 | 3.5 - 6.0 |
| | OXY-06 | 14-Aug-08 | | | >2.5 - 6.0 |
| | OXY-07 | 12-Sep-08 | 0.036 - 0.042 | 2.2 - 4.2 | >2.0 - 6.5 |
| | OXY-08 | 10-Oct-08 | 0.025 - 0.045 | | >2.0 - 6.0 |
| ***Taylor River Pond - Surface Water at W-01 and W-6*** *(at a depth of approximately 6-feet)* | | | | | |
| Sampling Events | OXY-01 | 7-May-08 | 0.028 - 0.030 | | |
| | OXY-02 | 24-Jun-08 | 0.030 | | |
| | OXY-03 | 22-Jul-08 | 0.035 - 0.067 | | |
| | OXY-04 | 31-Jul-08 | | | |
| | OXY-05 | 7-Aug-08 | 0.049 - 0.052 | | |
| | OXY-06 | 14-Aug-08 | | | |
| | OXY-07 | 12-Sep-08 | 0.035 - 0.160 | | |
| | OXY-08 | 10-Oct-08 | 0.067 - 0.080 | | |

(*) Trophic levels for total phosphorus as defined by NHDES are as follows:

| | |
|---|---|
| Oligotrophic | <0.010 mg/l |
| Mesotrophic | 0.010 to 0.020 mg/l |
| Eutrophic | >0.020 mg/l |

**Table 18 – Taylor River**
**Numbers of River Herring Returning to Fishways on**
**Coastal New Hampshire Rivers from 1972 – 2005**

| YEAR | COCHECO RIVER | EXETER RIVER | OYSTER RIVER | LAMPREY RIVER | TAYLOR RIVER | WINNICUT RIVER | ANNUAL TOTAL |
|---|---|---|---|---|---|---|---|
| 1972 | | | | 2,528 | | + | 2,528 |
| 1973 | | | | 1,380 | | + | 1,380 |
| 1974 | | | | 1,627 | | + | 1,627 |
| 1975 | | 2,639 | | 2,882 | | + | 5,521 |
| 1976 | 9,500 | | 11,777 | 3,951 | 450,000 | + | 475,228 |
| 1977 | 29,500 | | 359 | 11,256 | | 2,700++ | 43,815 |
| 1978 | 1,925 | 205 | 419 | 20,461 | 168,256 | 3,229++ | 194,495 |
| 1979 | 586 | 186 | 496 | 23,747 | 375,302 | 3,410++ | 403,727 |
| 1980 | 7,713 | 2,516 | 2,921 | 26,512 | 205,420 | 4,393++ | 249,475 |
| 1981 | 6,559 | 15,626 | 5,099 | 50,226 | 94,060 | 2,316++ | 173,886 |
| 1982 | 4,129 | 542 | 6,563 | 66,189 | 126,182 | 2,500++ | 206,105 |
| 1983 | 968 | 1 | 8,866 | 54,546 | 151,100 | + | 215,481 |
| 1984 | 477 | | 5,179 | 40,213 | 45,600 | + | 91,469 |
| 1985 | 974 | | 4,116 | 54,365 | 108,201 | + | 167,656 |
| 1986 | 2,612 | 1,125 | 93,024 | 46,623 | 117,000 | 1,000++ | 261,384 |
| 1987 | 3,557 | 220 | 57,745 | 45,895 | 63,514 | + | 170,931 |
| 1988 | 3,915 | | 73,866 | 31,897 | 30,297 | + | 139,975 |
| 1989 | 18,455 | | 38,925 | 26,149 | 41,395 | + | 124,924 |
| 1990 | 31,697 | | 154,588 | 25,457 | 27,210 | + | 238,952 |
| 1991 | 25,753 | 313 | 151,975 | 29,871 | 46,392 | + | 254,304 |
| 1992 | 72,491 | 537 | 157,024 | 16,511 | 49,108 | + | 295,671 |
| 1993 | 40,372 | 278 | 73,788 | 25,289 | 84,859 | + | 224,586 |
| 1994 | 33,140 | * | 91,974 | 14,119 | 42,164 | + | 181,397 |
| 1995 | 79,385 | 592 | 82,895 | 15,904 | 14,757 | + | 193,533 |
| 1996 | 32,767 | 248 | 82,362 | 11,200 | 10,113 | + | 136,690 |
| 1997 | 31,182 | 1,302 | 57,920 | 22,236 | 20,420 | + | 133,060 |
| 1998 | 25,277 | 392 | 85,116 | 15,947 | 11,979 | 219 | 138,930 |
| 1999 | 16,679 | 2,821 | 88,063 | 20,067 | 25,197 | 305 | 153,132 |
| 2000 | 30,938 | 533 | 70,873 | 25,678 | 44,010 | 525 | 172,557 |
| 2001 | 46,590 | 6,703 | 66,989 | 39,330 | 7,065 | 1,118 | 167,795 |
| 2002 | 62,472 | 3,341 | 58,179 | 58,605 | 5,829 | 7,041 | 195,467 |
| 2003 | 71,199 | 71 | 51,536 | 64,486 | 1,397 | 5,427 | 194,116 |
| 2004 | 47,934 | 83 | 52,934 | 66,333 | 1,055 | 8,044 | 176,383 |
| 2005 | 16,446 | 66 | 12,882 | 40,026 | 223 | 2,703 | 72,346 |

*Source: NHFG Annual Progress Report, 2005, Anadromous Fish Investigations*

* - Due to damage to the fish trap, fishway became a swim through operation.
+ - Fishway unable to pass fish until modifications in 1997.
++ - Fish netted below and hand passed over Winnicut River dam.

**Table 19**
**Results of Fish Sampling by NH Fish and Game Department in Taylor River Pond, April through June, 2007**

| Sample date | RH | ECP | LMB | BC | BG | RBS | PMK | BBH | GS | UNK | SNT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/25/07* | | 14 | 21 | | | | | | | | |
| 5/10/07 | 4 | 14 | | | 1 | | | 1 | 3 | | |
| 5/11/07 | 1 | 4 | | | 1 | | | 2 | 1 | | |
| 5/15/07 | 9 | 2 | 1 | | | | 3 | | 1 | | |
| 5/16/07 | | 1 | | | 1 | 2 | | | | | |
| 5/17/07 | 11 | | | | | | 1 | | 1 | | |
| 5/18/07 | No | Fish | | | | | | | | | |
| 5/30/07 | | 3 | | 1 | | | 1 | 2 | | | |
| 5/31/07 | | 3 | 1 | | | | | 1 | | | |
| 6/1/07 | | 5 | 1 | | | | | | 3 | | |
| 6/2/07 | | 1 | | | | | 4 | | | | |
| 6/3/07 | | | | | | | | | 2 | | |
| 6/4/07 | | 2 | | | 1 | | | | | | |
| 6/5/07 | 1 | 3 | 1 | | | | | | | | |
| 6/6/07 | | 7 | | | | | | | | | |
| 6/7/07 | 1 | 1 | | | | | 1 | | | | |
| 6/8/07 | | 1 | | | | | 1 | 1 | 1 | | |
| 6/9/07 | 1 | 2 | | | | | | | | | |
| 6/10/07 | | 1 | | | 3 | | 1 | 2 | | | |
| 6/11/07 | | 1 | | | 1 | | 1 | 1 | | | |
| 6/12/07 | | | | 1 | | | | 1 | | 2 | 1 |
| 6/14/07 | | | 1 | | | | 2 | | | | |
| 6/16/07 | | 4 | | | 1 | | 1 | 1 | | | 1 |
| 6/17/07 | | 2 | | | | | | | | | |
| 6/18/07 | No | Fish | | | | | | | | | |
| 6/20/07 | | | | | | | 1 | | | | |
| 6/21/07 | | 1 | | | 1 | | 2 | | | | |
| 6/22/07 | | | | | 1 | | | | | | |
| 6/23/07 | | | | 1 | | | 5 | | | | |
| 6/25/07 | | 1 | | 1 | | | | 4 | 1 | | |
| **Total** | 28 | 73 | 26 | 4 | 11 | 2 | 24 | 16 | 13 | 2 | 2 |
| **%** | 14.1 | 36.7 | 13.1 | 2.0 | 5.5 | 1.0 | 12.1 | 8.0 | 6.5 | 1.0 | NA |

- Sampling was by electrofishing on 4/25/07. Gill nets were used on all other sample dates.

Key: RH = river herring; ECP = eastern chain pickerel; LMB = largemouth bass; BC = black crappie; BG = bluegill; RBS = redbreast sunfish; PMK = pumpkinseed; BBH = brown bullhead; GS = golden shiner; UNK = unknown fish species; SNT = snapping turtle