



Water-Data Report 2011

**471142122094702 HYPOLIMNION-LAKE TAPPS NEAR BONNEY LAKE, WA SITE 2**

Puget Sound Basin  
Puyallup Subbasin

LOCATION.--Lat 47°11'42", long 122°09'46.77" referenced to North American Datum of 1983, Pierce County, WA, Hydrologic Unit 17110014, about 0.23 mi north-northeast of Allan Yorke Park, City of Bonney Lake.

**WATER-QUALITY RECORDS**

COOPERATION.--Cascade Water Alliance

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 3

[N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; m, meters; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

| Date       | Sample start time | Temperature, air, °C (00020) | Depth to bottom from water surface, at sampling location, meters (82903) | Dissolved oxygen, water, unfiltered, mg/L (00300) | pH, water, unfiltered, field, standard units (00400) | Specific conductance, water, unfiltered, µS/cm at 25 °C (00095) | Temperature, water, °C (00010) | Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676) | Sampling depth, m (00098) |
|------------|-------------------|------------------------------|--|---|--|---|--------------------------------|--|---------------------------|
| 10-12-2010 | 0930              | 11.0                         | 4.50   | 8.9   | 7.6  | 68  | 16.0                           | 2.3  | 3.5                       |
| 10-26-2010 | 0930              | 7.9                          | 4.50   | 9.5   | 7.7  | 68  | 12.6                           | 2.5  | 3.5                       |
| 11-16-2010 | 0900              | 9.7                          | 4.20   | 10.3  | 7.6  | 69  | 10.2                           | 1.6  | 3.5                       |
| 12-07-2010 | 0930              | 10.9                         | 3.60   | 12.6  | 7.8  | 73  | 4.8                            | 1.3  | 3.0                       |

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 3

[N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; m, meters; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

| Date       | Sample start time | Number of sampling points, count (00063) | Sampling method (82398) | Suspended solids, water, unfiltered, mg/L (00530) | Ammonia, water, filtered, mg/L as N (00608) | Nitrate plus nitrite, water, filtered, mg/L as N (00631) | Nitrite, water, filtered, mg/L as N (00613) | Orthophosphate, water, filtered, mg/L as P (00671) | Phosphorus, water, filtered, mg/L as P (00666) |
|------------|-------------------|--|-------------------------|---|---|--|---|--|--|
| 10-12-2010 | 0930              | 1  | Point sample            | E 3.2   | < .010                                      | < .008   | < .001                                      | < .004   | < .003   |
| 10-26-2010 | 0930              | 1  | Point sample            | E 2.0   | < .010                                      | < .008   | < .001                                      | < .004   | < .003   |
| 11-16-2010 | 0900              | 1  | Point sample            | E 1.2   | < .010                                      | .014   | .001  | < .004   | .004   |
| 12-07-2010 | 0930              | 1  | Point sample            | < 1.1   | < .010                                      | .040   | .001  | < .004   | < .003   |

## 471142122094702 HYPOLIMNION-LAKE TAPPS NEAR BONNEY LAKE, WA SITE 2—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 3 of 3

[N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; m, meters; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius;  $\mu$ S/cm, microsiemens per centimeter;  $\mu$ g/L, micrograms per liter; <, less than; E, estimated]

| Date       | Sample start time | Phosphorus, water, unfiltered, mg/L as P (00665) | Total nitrogen, water, filtered, analytically determined, mg/L (62854) | Total nitrogen, water, unfiltered, analytically determined, mg/L (62855) | Chlorophyll, total, water, fluorometric, 650-700 nm, in situ sensor, $\mu$ g/L (62361) |
|------------|-------------------|--|--|--|--|
| 10-12-2010 | 0930              | .010   | .12  | .18  | 1.26   |
| 10-26-2010 | 0930              | .010   | .12  | .16  | 1.14   |
| 11-16-2010 | 0900              | .009   | .13  | .18  | 1.86   |
| 12-07-2010 | 0930              | .012   | .17  | .25  | 5.59   |