

## City of Portland Sponsored Bull Run Watershed Projects and On-going Activities



### PROJECTS

No.	Project Name & Description	Location	Schedule/Status	Purpose
1	<p><b>Bull Run Land Exchange</b></p> <p>The project is exchanging approximately 2,890 acres of federal Forest Service land to the City of Portland for approximately 2,200 acres of City owned lands within the Bull Run Watershed Management Unit. The transaction is a land-for-land exchange of properties of equivalent financial value.</p>	<p>Selected parcels within the Management Unit</p>	<p>City Council voted to authorize signing the Exchange Agreement on July 31, 2019. The agreement authorizes the City and USDA Forest Service to complete the exchange. Both agencies signed the agreement in September 2019. Completing the transaction involves a variety of process steps to prepare the deeds. The property transaction is currently expected to be completed in early 2021. More information is available on the Mt. Hood National Forest website: <a href="https://www.fs.usda.gov/project/?project=33120">https://www.fs.usda.gov/project/?project=33120</a>, and the Water Bureau website: <a href="https://www.portlandoregon.gov/water/69748">https://www.portlandoregon.gov/water/69748</a></p>	<p>To create a better alignment of land ownership responsibilities with the respective missions of the City and the Forest Service.</p>

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*For more information contact Liane Davis at 503-823-7487*

*October 2020*

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2	<p><b>Road 10 Improvement (“10E”)</b></p> <p>A 2.0-mile section of Road 10 will be reconstructed and repaved to improve pavement condition, widen where needed to improve safety, replace aging ditch and stream culverts, create better ditch lines to improve drainage, and address slumping and slides.</p>	<p>Road 10 in the Bull Run watershed, from approximately MP 6.2 to the intersection with Road 1008</p>	<p>Project construction is in progress and is expected to continue through October 2020. Project construction will stop for the winter and commence again in the summer of 2021. Construction is currently expected to be completed during the fall of 2021.</p>	<p>To ensure continuous, reliable, and safe access to all facilities. Also provides reliable access for monitoring and fire protection in the watershed.</p>
3	<p><b>Hamilton Creek Culvert Replacement Project</b></p> <p>Hamilton Creek is a fish-bearing perennial stream that drains directly into Reservoir 1, just west of the North Fork Bull Run River Bridge. Road 10, a critical access route within the Bull Run, crosses Hamilton Creek just above the stream’s outlet into Reservoir 1. The current culvert was likely installed more than 60 years ago, is significantly undersized, and is in a failing condition. Complete failure of the culvert could result in degradation of drinking water quality as well as damage to road infrastructure and aquatic habitat. The project will replace the existing culvert with a new structure that is appropriately sized for current and future stream flow conditions and meets regulatory requirements for aquatic organism passage.</p>	<p>MP 12.1 on Road 10 in the Bull Run watershed</p>	<p>Project design is in progress and is scheduled to be completed by December 2020. Construction is anticipated to occur during the summer of 2021.</p>	<p>To reduce risk to drinking water quality, road infrastructure, and aquatic habitat that could result from a catastrophic failure of the existing culvert. The project will help to ensure continuous, reliable, and safe access to all facilities. It also maintains reliable access for monitoring and fire protection in the watershed.</p>
4	<p><b>Dam 1 - Needle Valve Replacement Project</b></p> <p>This project will replace three Lerner-Johnson Needle Valves from the face of Dam 1 with three new valves. The existing needle valves are over 90 years old and are antiquated, leak, require significant occasional maintenance, are difficult to open/close, and have been proven to be unsafe in certain operational conditions. The project will meet State Historic Preservation Office (SHPO) requirements as outlined in a Memorandum of Agreement.</p>	<p>Dam 1</p>	<p>Construction on the project began in 2019; the current contract has been extended through April 2021. Activities for 2020 included: limited site work (e.g., stair repair and roofing), erosion and pollution control implementation, and material manufacture and procurement. Demolition of the valve house and</p>	<p>The project will replace existing valves with fixed-cone valve with hoods. It will also improve operation and access and is intended to reduce annual maintenance costs. Visual impacts to the valve house structure will be minimized.</p>

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			valve replacement work is expected to begin after November 2020.	
5	<p><b>Dam 2 Spillway Lower Subdrains Inspection</b></p> <p>Conduct a closed-circuit television inspection of the pipe interiors in the Dam 2 spillway lower subdrain system.</p>	Dam 2 spillway	This inspection was completed in September 2020.	In response to a February 2017 spillway erosion incident at Oroville Dam in California, the FERC requested the City of Portland to conduct a focused assessment of the Dam 2 spillway. This was the only remaining task in the City's focused assessment.
6	<p><b>Geotechnical Drilling/mapping rock</b></p> <p>Conduct geotechnical drilling at Dam 1 toe and abutments to determine rock quality, joint spacing, and joint orientation.</p>	Dam 1 toe and abutments	Scheduled for fall 2020.	Data is needed to conduct a flood overtopping scour analysis, per FERC requirements.
7	<p><b>Spillway Vertical Slide Gates Inspection</b></p> <p>Conduct a close-up visual inspection of the Bull Run Dam 1 spillway gates.</p>	Dam 1 Spillway	Scheduled for fall 2020.	To determine the condition and confirm the as-built configuration to use in a structural analysis of the gates.
8	<p><b>Bull Run Treatment Pilot Plant</b></p> <p>A pilot treatment plant has been installed at Headworks to inform development of the Bull Run Treatment Project. The pilot plant consists of multiple trailers that house small-scale water treatment equipment, including flocculation, sedimentation, ozonation, and filtration. The pilot uses raw water from the diversion pool and passes it through conventional surface water treatment processes. Water passes through a solids handling tank, activated carbon, and dechlorination while being monitored daily to mitigate any risk of ecologic impact before being returned to the Bull Run River. Equipment</p>	Headworks, immediately downstream of intake	Pilot equipment was installed, and operation began in 2019. Continuous operation is on-going and is planned through at least fall 2021.	The objective of the pilot is to demonstrate improved water quality, inform process selection and detailed design for the full-scale Bull Run Treatment Project, optimize treatment processes, and train treatment operator staff.

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	runs continuously and will be staffed during normal work hours.			
9	<p><b>Bull Run Cabin Chimney Repair</b></p> <p>This project will repair a damaged chimney for the historic south cabin at Bull Run Lake. Repairs include demolition of the existing chimney, salvage of suitable stones, and reconstruction of the chimney with a design similar to the original 1917 chimney. A temporary access ramp to the site was constructed in 2019 to facilitate movement of materials and will be removed upon completion of the project. Repair work will be performed by a masonry contractor.</p>	South Cabin at Bull Run Lake	The project began in late 2019 and was curtailed due to the onset of winter weather conditions. It is currently in progress and scheduled to be completed in 2020.	Remove existing safety hazard of falling stones and ensure the long-term protection of this recently restored cabin by eliminating the water/snow entry currently threatening to damage the structure. All three cabins in this location are eligible for listing on the National Register of Historic Places (NRHP).
10	<p><b>Screenhouse #3 Roof Replacement</b></p> <p>The project will remove and dispose of the existing roof which is beginning to fail. It will replace the existing roof with a new SBS (Styrene-Butadiene-Styrene) roof system.</p>	Headworks - Screenhouse #3	Roof replacement is scheduled for fall 2020.	The existing roof is past its useful life and has developed leaks that can no longer be repaired. The new roof will stop leaks and prevent possible damage to building and possible degradation to indoor air quality for staff.
11	<p><b>USGS Monitoring Site Improvements</b></p> <p>The U.S. Geological Survey (USGS), in coordination with the City, maintains several stream and water level monitoring stations throughout the BRWMU. The USGS is making improvements at two stations to upgrade equipment and adjust sensor locations.</p>	Dam 1 (station ID 14139000); Lower Bull Run USGS station (station ID 14140000)	Summer and fall of 2020	Projects will improve efficiency of data collection; improve accuracy and redundancy of data collection; and improve data communication

## ON-GOING ACTIVITIES

No.	Project Name & Description	Location	Schedule/Status	Purpose
1	<p><b>Water Treatment Operations</b></p> <p>Apply chlorine and monitor for finished water quality residuals. Monitor and control river flow below Dam 2 to meet Habitat Conservation Plan fish flow requirements. Control conduit flows to meet customer demand.</p>	Headworks	Year-round	To disinfect water to protect public health and meet all state and federal water quality standards for unfiltered water system; create beneficial fish habitat conditions in lower Bull Run River; supply potable water to Portland metro area.
2	<p><b>Security</b></p> <p>Two full-time Watershed Rangers conduct vehicle and foot patrols for trespass; monitor a private-vehicle identification system; deploy and maintain a camera system for remote area monitoring; and coordinate emergency access in an emergency event. Security staff conduct fire patrols during the summer months and conduct security site surveys of all water system facilities and infrastructure sites throughout the year.</p>	Entire watershed	Year-round	To enforce the public closure of the Bull Run Watershed Management Unit and maintain an effective security program for the Unit.
3	<p><b>Road Maintenance</b></p> <p>Brushing (cutting roadside brush), mowing, tree-fall removal, slide removal, ditch maintenance, culvert cleaning and repair, sub-grade repair, snow plowing, chip-seal, and bridge inspections.</p>	Entire watershed	Year-round	To ensure continuous, reliable, and safe access to all facilities, as well as maintenance of other city-owned infrastructure within the watershed.
4	<p><b>Trail Maintenance</b></p> <p>Brushing, debris removal and safety-related maintenance on trails that provide access to water monitoring stations.</p>	Trails associated with USGS gauging stations located through watershed	Year-round	To provide access to facilities and natural resources.

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5	<p><b>Conduit Maintenance</b></p> <p>Brushing, mowing, and tree-fall removal on conduit right-of-ways, leak repair, blow-off and air valve maintenance, bridge inspection, and intertie operations.</p>	<p>Conduit right-of-ways between Headworks and main gate</p>	<p>Year-round, as required</p>	<p>To provide access on right-of-way as required to maintain operation of conduits.</p>
6	<p><b>Facilities Maintenance</b></p> <p>Mowing at Headworks and Bear Creek house, monitor for storm damage, storm clean-up and repair.</p>	<p>Facilities located throughout watershed</p>	<p>Year-round, as required</p>	<p>To maintain structural integrity, upkeep and access to facilities.</p>
7	<p><b>Waterway Debris Removal &amp; Disposal</b></p> <p>Removal of logs and debris captured by upper log boom in Reservoir 1. Inspection and repair of log booms in Reservoirs 1 &amp; 2 and Bull Run Lake.</p>	<p>Reservoir 1, Reservoir 2 and Bull Run Lake</p>	<p>Late spring and summer, and as required</p>	<p>To protect dams and dikes, and other water system infrastructure.</p>
8	<p><b>Danger/Hazard Tree Removal</b></p> <p>Removal of danger and hazard trees that pose a risk to life, property, and infrastructure, as required by federal and state laws. Identification of danger and hazard trees is performed by a certified danger tree specialist.</p>	<p>Selected locations throughout the watershed</p>	<p>Year-round, as required</p>	<p>To keep workers and visitors safe while traveling and working in the watershed; to protect water system property and infrastructure.</p>
9	<p><b>Winter-Season Facility Maintenance Surveys</b></p> <p>Use of snow cat to conduct snow survey measurements at Bull Run Lake; assess condition of outlet structures at Bull Run and Boody lakes, assess condition of gauging flumes at Upper and Lower Springs; and provide access to Hiyu Mountain telecommunications tower for ComNet staff. ComNet provides microwave communication service to the city.</p>	<p>Selected locations throughout watershed</p>	<p>Winter months (generally November – May)</p>	<p>To maintain seasonal access to facilities; monitor condition of resources; repair failed infrastructure.</p>

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10	<p><b>Dam Maintenance</b></p> <p>Perform various tasks associated with routine and on-going dam maintenance, including weekly piezometer readings in Dams 1 &amp; 2; operation and maintenance of gates; FERC requirements such as annual flushing of piezometers, face drains and foundation drains; replacement of aging or failed instrumentation and equipment (e.g., North Tower level sensing equipment); and brushing on dam abutments.</p>	Dam 1 and Dam 2	Year-round, as required	To maintain operational and structural integrity of dams and satisfy FERC requirements.
11	<p><b>Road Inclinometer Monitoring</b></p> <p>Measure angles of slope, elevation or inclination. Inclinometer locations are all in close proximity to the conduits.</p>	Road 10 between main gate and Headworks	Readings are made twice a year (spring and fall)	To determine presence of ground movements that could affect conduits. The locations are either in areas of historic slides or in areas that were determined to have a potential to slide.
12	<p><b>Road Piezometer Monitoring</b></p> <p>Use piezometer to measure water levels in porous surfaces and near potential slide areas.</p>	Road 10 between main gate and Headworks	Readings are made twice a year (spring and fall)	To determine risk potential to protect critical water system infrastructure from slope failure.
13	<p><b>Stream Flow &amp; Temperature Gauging and Reservoir Level Monitoring</b></p> <p>Cooperative program with the U.S. Geological Survey (USGS) to monitor flow and water quality measurements at selected stream stations. Measure water levels at Bull Run Lake and Bull Run reservoirs.</p>	Selected locations throughout watershed	Continuous automated monitoring. Validation by on-site inspection performed at regularly scheduled intervals or as needed	To monitor volume of water entering the reservoirs for summer supply planning and flow and temperature management in lower Bull Run River.
14	<p><b>Snow Gauging</b></p> <p>Cooperative program with the federal Natural Resource Conservation Service (NRCS) to monitor snow depth, snow water equivalent, precipitation, and temperature at three monitoring stations.</p>	Selected locations throughout watershed	Continuous automated monitoring. Validation by on-site inspection performed annually or as needed	To monitor snow levels and hydrologic conditions.

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15	<p><b>Stream Key-Station Monitoring</b></p> <p>Collect water quality data at the mouths of the four main tributaries that flow into the reservoirs.</p>	North Fork, South Fork, Main Stem and Fir Creek key stations	Scheduled: monthly Storm events: 6-8 times per year	To monitor water quality at the four main tributaries.
16	<p><b>Reservoir Monitoring</b></p> <p>Collect water quality data and temperature profiles from the reservoirs.</p>	Reservoirs 1 and 2	Bi-weekly	To monitor conditions, physical processes and water quality in source water reservoirs.
17	<p><b>Fish Surveys - Bull Run Reservoirs</b></p> <p>Estimate of fish populations in reservoirs using hydroacoustic surveys</p>	Reservoirs 1 and 2	Surveys began in 2008 and occur annually, alternating each year between reservoirs.	To estimate the size of each reservoir's fish population and maintain a record of changes through time in preparation for FERC relicensing.
18	<p><b>Invasive Plant Surveys</b></p> <p>Ongoing monitoring, removal and control of invasive species. Surveys for invasive plant species occur along active and decommissioned roads, trails, reservoirs, and near infrastructure, as well as sites of recent road and other construction projects. Aquatic surveys of the Bull Run reservoirs and rare plant surveys of prairies adjacent to the road network are also conducted to monitor potential impacts of invasive plant species on these habitats and populations.</p>	Selected locations throughout watershed	Annually	To protect native vegetation and retain ecological function that helps to protect water quality.
19	<p><b>Water Resources Education Program</b></p> <p>Supervised Bull Run tours are administered by the Water Bureau's education staff.</p>	Selected locations throughout watershed	Two tours occurred between January 1 and April 1, 2020. Tours for 2020 have been cancelled due to Covid-19.	To educate participants about the Bull Run watershed and Portland's water system. Topics include history, ecology, source water protection, water quality, system operations, and stewardship.

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20	<p><b>Spawning Surveys -- Lower Bull Run River</b> Collect adult Chinook salmon information for the lower Bull Run River.</p>	Lower Bull Run River	<p>HCP Years 1–20 (2010-2029) Takes place annually from late-August through mid-December.</p>	To monitor adult salmon numbers and comply with terms of the City's Incidental Take Permit.
21	<p><b>Spawning Gravel Placement and Monitoring</b> The City augments spawning gravel in the lower Bull Run River and monitors the effects of the gravel placements. Project constitutes Measure H-1 of the Bull Run Habitat Conservation Plan (HCP).</p>	Lower Bull Run River	<p>HCP Years 1–50 (2010-2059) Gravel at three sites is placed in the river each year. Surface area of spawning gravel patches in the lower Bull Run River is estimated annually (2007-2019). Depth of the spawning gravel scour by high flows is monitored in certain years. Gravel scour was monitored during the fall/winter of 2014-2015, 2016-2017, and 2018-2019. Scour depth will be monitored in at least two additional years beyond 2018-2019, but is not occurring in 2019-2020.</p>	To mitigate the effects of Dam 1 and Dam 2 on transport of natural spawning gravel to the lower Bull Run River and comply with the terms of the City's Incidental Take Permit.

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22	<p><b>Salmon Monitoring -- Little Sandy River and lower Bull Run River</b></p> <p>PWB continues to do two activities in the Little Sandy River: 1) maintenance of a smolt trap and 2) fish habitat surveys and snorkel surveys. Snorkel surveys are also conducted in the lower Bull Run River.</p>	<p><i>Smolt trap:</i> just upstream of the former Little Sandy Dam site</p> <p><i>Little Sandy fish habitat and snorkel surveys:</i> from the mouth of the Little Sandy river to RM 2.7, and from the mouth to the former dam site, respectively</p> <p><i>Lower Bull Run River snorkel surveys:</i> from the mouth of the Bull Run River to the lamprey weir (just below the diversion dam)</p>	<p>The smolt trap is operated from roughly early-March through early-June annually (2009 – 2059).</p> <p>Habitat surveys are conducted 7 times over a 20-year period (2007-2027).</p> <p>Snorkel surveys have been performed annually since 2009 and are expected to continue indefinitely.</p>	<p>The purpose of the smolt trap is to monitor juvenile salmon and steelhead production. Habitat surveys monitor the effectiveness of fish habitat restoration measures. Habitat and smolt surveys comply with terms of the Bull Run HCP. Snorkel surveys monitor juvenile salmon and steelhead populations; these surveys support HCP fish management activities.</p>
23	<p><b>Fish Distribution Surveys—Various small streams</b></p> <p>PWB occasionally surveys small streams throughout the watershed above and below potential fish barriers such as road crossings or waterfalls to determine the presence or absence of fish.</p>	<p>Various streams tributary to the Bull Run River or its tributaries</p>	<p>None to several locations per year, as required</p>	<p>To determine the presence or absence of fish in streams potentially affected by PWB activities such as road maintenance.</p>

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24	<p><b>Fish Habitat Surveys - ODFW</b></p> <p>The City permits access to Oregon Department of Fish and Wildlife (ODFW) in order to conduct fish habitat surveys on select short stream segments to support the agency's on-going monitoring and research for salmon recovery and conservation.</p>	<p>Randomly selected stream segments throughout the watershed. Segments are typically 500 meters in length.</p>	<p>Sampling in the Bull Run began in 2015. Usually 2-3 segments surveyed per year.</p>	<p>To provide reference data for salmon recovery and conservation monitoring and research efforts. Data on stream habitat in the Bull Run is provided to the City upon request.</p>
25	<p><b>Reed Canary Grass Removal</b></p> <p>The City continues to remove reed canary grass, because it may inhibit development of larval western toads and red-legged frogs, where these two species breed along the north bank of the upper end of Reservoir 1. Removal includes cutting and raking. The City accesses the site by boat from the reservoir and by trail. Project constitutes Measure R-3 of the Bull Run HCP.</p>	<p>Reservoir 1</p>	<p>HCP Years 1–50 (2010-2059)</p> <p>Performed annually</p>	<p>To remove reed canary grass for the benefit of western toads and red-legged frogs and comply with the terms of the City's Incidental Take Permit.</p>
26	<p><b>Dam Safety Inspections of PHP Facilities</b></p> <p>Bureau of Hydropower staff periodically visit and inspect the Portland Hydroelectric Project's (PHP) two Bull Run Dams and powerhouses.</p>	<p>Dam 1 and Dam 2</p>	<p>Monthly</p>	<p>To ensure the stability and safety of the hydroelectric facilities and that any changing conditions at the dams and powerhouses can be monitored and addressed.</p>
27	<p><b>FERC Annual Operations Inspections</b></p> <p>Hydropower staff accompanies representatives from the FERC and the Oregon Water Resources Department on periodic inspections of Bull Run Dams Nos. 1 &amp; 2.</p>	<p>Dam 1 and Dam 2</p>	<p>Annually</p>	<p>To inspect and assess the physical condition of the two Bull Run dams and comply with FERC regulations.</p>

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28	<p><b>FERC Quinquennial (5-year) Part 12 Inspection and Report</b> Inspection of the Portland Hydroelectric Project (PHP).</p>	Dam 1 and Dam 2	Completed in 2017; reoccurring every 5 years; next review scheduled for 2022	Required reoccurring 5-year extensive review of the PHP Dam Safety program and facility infrastructure. Inspection is conducted by an outside independent consultant to report back to FERC on the status of the project and associated programs to protect the Bull Run River and downstream population.
29	<p><b>EWEB and ENW Normal Ongoing PHP Operations</b> As contract operators for the City, Eugene Water and Electric Board (EWEB) routinely starts and stops the two Portland Hydroelectric Project's (PHP) powerhouses remotely from their control room in Eugene. A second contractor, Energy Northwest (ENW), has operating personnel operating from the City's Headworks facility. They work in both PHP powerhouses every day conducting the daily preventive checks and maintenance procedures to maintain both power plants at a fully operational capability.</p>	Dam 1 and Dam 2	Daily	To verify the proper functioning of powerhouse equipment; and perform regular operation and maintenance functions. Monitor crests of both BR Dams to verify the actual reservoir water levels against what is being recorded in the PHP SCADA monitoring system.
30	<p><b>Annual Overhauls of the two PHP Powerhouses</b> Energy Northwest schedules annual individual two-week long power generation outages at each of the Portland Hydroelectric Project's (PHP) powerhouses, during which time they have a variety of its maintenance and repair crews visit and do work at both of the powerhouses.</p>	Dam 1 and Dam 2	Annually – for usually two weeks at each powerhouse - in the summer / fall period.	To accomplish a range of testing, measuring, repair and maintenance work that cannot be accomplished while the units are in operation.

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31	<p><b>Deliveries to and Removals from the PHP Powerhouses</b></p> <p>On an “as-needed” basis, diesel fuel and supplies are delivered to both of the Portland Hydroelectric Project’s (PHP) powerhouses.</p>	Dam 1 and Dam 2	As needed - infrequent	To ensure adequate fuel for emergency backup generators and other supplies as needed. Both PHP powerhouses have diesel generators that provide emergency power during electricity outages.
32	<p><b>PHP Power Transmission Line Assessment &amp; Maintenance</b></p> <p>Portland General Distribution Service’s (PGDS is a branch of Portland General Electric) designated forester periodically conducts site visits to assess the condition of the Portland Hydroelectric Project’s (PHP) power transmission line corridor. In consultation with the City and U.S. Forest Service (if on federal land) recommendations and decisions are made on proposed brushing and hazard tree removal. Due to recent fire hazard events in both CA and OR, PWB is working with PGDS to increase clearances of vegetation in and around the power transmission line right-of-way.</p>	Power line Right of Way between Dam 1 and main gate	<p>Assessment: annually</p> <p>Maintenance: on average, once every three years. PHP, PWB, and PGDS are considering increasing the frequency of vegetation maintenance.</p>	To protect the safety and integrity of the transmission line.
33	<p><b>PHP Power Line Repairs</b></p> <p>Portland General Distribution Service’s power line repair crews periodically visit the Portland Hydroelectric Project’s (PHP) transmission line corridor to repair any storm caused damage that may have occurred.</p>	Power line Right of Way between Dam 1 and main gate	As needed following events causing damage to the PHP transmission lines.	To ensure continued operation of powerhouses and minimize the duration of power outages.

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34	<p><b>Bull Run Lake Special Use Authorization Monitoring Activities</b></p> <p>PWB is required to conduct various wildlife and fish monitoring activities on an annual basis to maintain its special use authorization with the Forest Service for Bull Run Lake. Activities completed in 2020 include: avian surveys, spawning surveys, and limnological monitoring. Fish population estimates are planned for fall 2020.</p>	Bull Run Lake	Ongoing during field season (late spring through late fall)	To comply with mitigation and monitoring requirements of the Bull Run Lake Special Use Authorization.
35	<p><b>Bilateral Compliance Agreement Interim Measures: Monitoring and Inspections</b></p> <p>PWB is conducting routine <i>Cryptosporidium</i> monitoring at the intake as well as watershed inspections and environmental sampling as part of the requirements of the December 2017 Bilateral Compliance Agreement with Oregon Health Authority (OHA).</p>	<p>Water sampling at Headworks and Key Stations. Inspections and scat collection throughout the watershed.</p> <p>Inspection categories include: security, diversion pool, soil erosion areas and sanitary facilities.</p>	<p>PWB samples at the intake two days per week. If <i>Cryptosporidium</i> is detected, sampling increases to four days per week for at least three weeks.</p> <p>Intake <i>Cryptosporidium</i> results can be found at <a href="http://www.portlandoregon.gov/water/cryptoresults">www.portlandoregon.gov/water/cryptoresults</a></p> <p>Results from the second quarter of 2020 (April to June) are found in the Bilateral Compliance Agreement Quarterly Status Report submitted to OHA on August 6, 2020.</p> <p>The Bull Run LT2 Interim Measures Watershed Report for Water Year 2019 contains all monitoring and inspection results for Water Year 2019 (Oct 2018 – Sep 2019). The report was submitted to OHA in December 2019.</p>	<p>PWB is currently operating under the interim measures of the Bilateral Compliance Agreement until <i>Cryptosporidium</i> treatment facilities are operational, no later than September 30, 2027.</p> <p>Additional information on <i>Cryptosporidium</i> and the Bilateral Compliance Agreement can be found on Portland's <i>Cryptosporidium</i> website. <a href="https://www.portlandoregon.gov/water/crypto">https://www.portlandoregon.gov/water/crypto</a></p>

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36	<p><b>Bull Run Wildlife Monitoring (related to <i>Cryptosporidium</i>)</b></p> <p>The Water Bureau is conducting ongoing wildlife monitoring within the Bull Run watershed to improve its knowledge of wildlife as a potential source of <i>Cryptosporidium</i>.</p> <p>Ongoing activities include: (1) using live traps for collecting small mammal scat near the diversion pool and reservoirs and (2) deer surveys around Headworks.</p>	Monitoring occurs throughout the watershed.	Year round, depending on wildlife species being monitored	To support PWB's compliance monitoring for <i>Cryptosporidium</i> under the terms of its 2017 Bilateral Compliance Agreement.