

EPO 2013/ CR-34
Obed Mountain Mine
Monthly Status Report – May 2018

Issued: June 7, 2018

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1.0 MONTHLY STATUS REPORT – MAY 2018

On December 19, 2013, Alberta Environment and Sustainable Resource Development ("ESRD") issued Environmental Protection Order No. EPO-2013/34-CR, as amended (the "EPO"), to Coal Valley Resources Inc. ("CVRI") and Sherritt International Corporation ("Sherritt") in respect of the Obed Mountain Mine (the "Mine").

The Proponent's, Sherritt and Prairie Mines & Royalty ULC ("PMRU", previously known as CVRI), submit the following Monthly Status Report as required by the EPO:

- Appendix 1 - May 2018 Data Sonde Data (Please Note: data in monthly graphs are raw, uncorrected data. All data will be corrected applying standard correction methods using calibration records, field notes and water levels, data grading, and will be presented in the annual monitoring report).

2.0 EPO ACTIVITIES

2.1 FIELD WORK COMPLETED IN MAY

Table 1 summarizes EPO related field work that was completed in May 2018.

Table 1 Field Work Completed		
Location	Activity	Description
MTP and ECP	Water Management	Active water management from the MTP to the ECP occurred via pumps and sclair pipe.
APC-7	Fish Exclusion Weir Spring Survey	The fish exclusion weir location was surveyed to confirm ground elevations, site conditions and overall location of the weir.
MSL	Rock Screening	The site obtained a rock screener which sorts rock into three different sizes. The screener is positioned on top of Obed Mountain where it is screening rounded rip rap.
APC-7	Material Staging	Class 2/3 angular rip rap was being staged at the sediment trap laydown at ST1 off of the DX Road in preparation for fish exclusion weir construction.
MSL	ECP Habitat Assessment	Hatfield completed a habitat assessment of the ECP to determine the suitability of ECP as a holding facility for captured rainbow trout.

2.2 CLAUSES 17 – LONG TERM SAMPLING AND MONITORING PLAN ('LTSMP')

The Proponents received approval of the Long-Term Sampling and Monitoring Plan (LTSMP) retroactive to April 24, 2014.

The AER, AEP, DFO and Alberta Health Services received a copy of all data collected under the LTSMP on March 29, 2018. To date, no questions have been received from the various regulatory agencies.

Table 2 below describes any actions related to data sonde operation or calibration to the end of May.

Table 2 Data Sonde Status (2018)			
Site	Event Description	Date Range	Notes
APC	Sonde calibration	31 – Jan - 18	SDI issue, crew returning February 2, 2018 to fix.
APC	Sonde Troubleshooting	2 – Feb - 18	Crew returned and fixed the identified SDI issued.
APC	Sonde calibration	13 – Feb - 18	Sonde calibrated, out of water for 30 minutes.
APC	Sonde calibration	15 – Mar - 18	Troubleshoot station and sonde. Issue is with station and not sonde. Replace sonde with calibrated unit. Data is being recorded internally, but not transmitted via Sutron-win because of station issues. A software patch will be installed during the week of April 9 – 13, 2018.
APC	Sonde calibration	11 – Apr - 18	Sonde calibrated, issues with Sutron-Win fixed.
APC	Sonde calibration	2 – May – 18	Sonde calibrated, out of water for 30 minutes.
APC-US	Sonde deployment	2 – May – 18	Sonde redeployed.
PLC-DS	Sonde deployment	2 – May – 18	Sonde redeployed.
APC-MTP	Sonde deployment	9 – May – 18	Sonde redeployed.

Note: there are some anomalies in the data this month related to water fluctuations in APC that have left the sensors exposed to air creating high temperature, pH and conductivity readings. Also, some issues with PLC turbidity readings are apparent and seem to be related to a fouled or malfunctioned sensor and is providing erroneous readings. The plan is to fix these issues during upcoming June site trips which will tie into the APC fish salvage.

2.3 CLAUSE 27 – REMEDIATION PLAN

The following is an update of completed and planned activities as well as upcoming targets:

- The Remediation Design, Conceptual Design, was submitted to the AER on February 3rd, 2017.
 - The Proponent received and responded to SIRs from AEP, AER and DFO (GRA)
- A second set of Design Drawings were submitted on June 24, 2017.
 - The Proponent received a second round of SIRs from DFO (GRA) on July 12, 2017.
 - An updated survey of the disturbance area was requested at the time of the second round of SIRs and was completed in August 2017.
- Revised design drawings for APC-1 to APC-4 as well as the corresponding GRA SIR responses were submitted on October 20, 2017.
- Revised design drawings for APC-5 and APC-7 as well as the corresponding GRA SIR responses were submitted on November 6, 2017.
 - The Proponent received SIRs related to the latest design drawings on January 16, 2018.
- Revised design drawings for APC-1 to APC-7 as well as corresponding images from APC-1 to APC-7, a Design Brief and responses to the GRA SIRs were submitted on February 23, 2018.
- A technical face-to-face meeting with the EPO Technical Team, DFO, GRA, AER and AEP occurred on March 9, 2018.
- The DFO Authorization was submitted on March 12, 2018.
 - Subsequent Offsetting Plan meetings related to the Authorization occurred on March 16 and 23, 2018 with DFO, AEP, AER and the Proponent's Team.
 - The Proponent received SIRs on April 11, 2018.
 - The Proponent submitted SIR responses on April 27, 2018.
 - The Proponent received a letter titled, "*Application for a Paragraph 35(2)(b) Fisheries Act Authorization is Complete*" from DFO on May 18, 2018.
- The AER has received an update to the Remediation Plan May 31, 2018.
- The Proponent has applied for amendments to exiting approvals under PLA and Water Act to meet the approval and licensing requirements to execute the require remediation.

2.4 HUMAN HEALTH RISK ASSESSMENT (“HHRA”)

Alberta Health Services was provided a copy of all data collected in 2017 on March 29, 2018. To date, no questions have been received from the various regulatory agencies.

3.0 PLANNED FIELD WORK JUNE 2018

The following outlines work planned for June 2018:

- **On-site Water Management**
 - Pumping as required based on weather events and the onsite water management plan.
- **Procurement and Staging of Material:**
 - Securing all necessary rock material and staging that material at various identified locations based on the design plan.
- **Fish Exclusion Weir Construction**
 - Following the IFC drawings, complete in-stream construction of the fish exclusion weir within APC-7 using a pump around isolation method. All necessary fish capture and release methods will be followed as identified in the Authorization as well as in accordance to the FRL. Water quality monitoring will take place throughout the construction period with an on-site QAES overseeing monitoring and reporting activities as per the Water Quality Monitoring Plan presented in the Authorization.
- **East Conveyor Pond (ECP) Fish Habitat Enhancements**
 - A fish habitat assessment of ECP took place and identified the need for some habitat improvements including the addition of rock material and floating cover features. These habitat features will be added to ECP.
 - ECP has been identified as a potential alternative or additional overwintering habitat as part of the off setting plan.
- **Fish Salvage**
 - Fish salvage, as outlined in the Fish Capture and Release Plan of the Authorization, will be completed on APC and identified tributaries associated to the Remediation Design Plan.
- **Site Tours**
 - Regulatory site tours to review spring conditions and identify Remediation Design Plan reaches and key design feature locations.

4.0 CONTACT INFORMATION

If you have questions regarding the information published, require data, information or would like to submit comments or questions please email:

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The Obed website was updated monthly. The website includes copies of all plans, data and reports published to date and can be accessed at www.Obed.ca

Appendix 1: May 2018 Data Sonde Data





