

***Office of River Protection  
Tri-Party Agreement Project Managers' Meeting Minutes***

September 10, 2020

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Meeting held virtually, via MS TEAMS

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## CONCURRENCE SIGNATURES

The undersigned TPA Project Managers (or their delegates) indicate by their signatures that these meeting minutes reflect the actual occurrences of the above-dated Tri-Party Agreement Project Managers' Meeting.

**Brian A. Harkins**

Digitally signed by Brian A. Harkins  
Date: 2020.10.21 07:22:07 -07'00'

Brian Harkins, Project Manager  
DOE-ORP

Date: \_\_\_\_\_

**Jason Young**

Digitally signed by Jason Young  
Date: 2020.10.20 16:48:17 -07'00'

Jason Young, Project Manager  
DOE-ORP

Date: \_\_\_\_\_

**WAHED ABDUL**

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Wahed Abdul, Project Manager  
DOE-ORP

Date: \_\_\_\_\_



Digitally signed by Lyon, Jeffery (ECY)  
Date: 2020.10.26 14:34:27 -07'00'

Jeff Lyon, Project Manager  
Washington State Department of Ecology

Date: \_\_\_\_\_



Digitally signed by Decker, Jay (ECY)  
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Jay Decker for,  
Dan McDonald, Project Manager  
Washington State Department of Ecology

Date: \_\_\_\_\_



Digitally signed by Temple, John (ECY)  
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John Temple, Project Manager  
Washington State Department of Ecology

Date: \_\_\_\_\_

# OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS' MEETING

## TERMS

BBI	Best-basis inventory
BOF	Balance of Facilities
CD	Consent Decree
CD-3B	critical decision
CERCLA	<i>Comprehensive Environmental Response, Compensation and Liability Act</i>
DFLAW	direct feed low-activity waste
DOE	U. S. Department of Energy
DSA	Documented Safety Analysis
DST	double-shell tank
Ecology	Washington State Department of Ecology
EIS	Environmental Impact Statement
EM-1	DOE Office of Environmental Management, Assistant Secretary
EMF	Effluent Management Facility
EPA	U.S. Environmental Protection Agency
ERSS	Extended Reach Sluicer System
ETF	Effluent Treatment Facility
EVMS	earned value management system
FY	fiscal year
IAMIT	Inter-agency Management Integration Team
IMUST	Inactive Miscellaneous Underground Storage Tanks
IQRPE	Independent Qualified Registered Professional Engineer
LAW	Low-activity waste
LBL	LAW Facility, Balance of Facilities and Lab
LERF	Liquid Effluent Retention Facility
MUST	Miscellaneous Underground Storage Tank
ORP	U. S. Department of Energy, Office of River Protection
PA	Performance Assessment
PMM	project manager meeting
POC	Point of contact
PT	Pretreatment
RAD	Radiation absorbed dose
RCRA	<i>Resource Conservation and Recovery Act</i>
SST	single-shell tank
TC&WM	Tank Closure and Waste Management
TPA	Tri-Party Agreement
TSCR	tank-side cesium removal
TWRWP	tank waste retrieval work plan
UT	Ultrasonic Test
WMA-C	Waste Management Area C
WRPS	Washington River Protection Solutions LLC
WTP	Waste Treatment and Immobilization Plant

# OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS' MEETING

## 1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS/ACTIONS

### Upcoming Meetings

The next U.S. Department of Energy-Office of River Protection (ORP) Tri-Party Agreement Project Managers' meeting is scheduled for October 8, 2020, via MS TEAMS.

### Recent Items Entered Into the Hanford Administrative Record

*The Office of River Protection Tri-Party Agreement and Consent Decree monthly reports for the period of July 1- July 30, 2020, were entered into the Hanford Administrative Record on August 25 and 27, 2020 (respectfully).*

### Tri-Party Agreement Milestone Status

ORP stated all Tri-Party Agreement (TPA) milestones reported on were either Complete, On Schedule or In Dispute Resolution (for details on specific milestones, see pages 3-5 of the July 2020 ORP TPA Monthly Report).

### Tri-Party Agreement Issues and Action Items

For reference, see attached, "ORP/Ecology TPA and CD Agreements, Issues and Action Items – September 2020 Meeting."

**Action No. 1 (TF-20-01-01):** ORP stated that the status of this action ("Submit to Ecology as a Secondary Document, a Mass Balance Flow Sheet") is tracked in the monthly TPA report under milestone M-062-50, and that it was also providing updates to the Ecology Project Manager. As such, ORP proposed closing the action. Ecology agreed. *The action was closed.*

**Action No. 2 (TF-20-01-03):** ORP continues to provide updates on this action. *The action remains open.*

**Action No. 3 (TF-20-02-01):** Ecology agreed that this action could be closed. *The action was closed.*

**Action No. 4 (TF-20-02-02):** At the August 2020 project managers meeting, ORP reported WRPS had drafted the AP-106 Repurposing Report, but did not have an update on whether the report had been delivered to Ecology. *The action remains open.*

**Action No. 5 (TF-20-03-01):** ORP stated the there is no DST permitting plan currently being worked on, other than what takes place in the regulatory permitting process. ORP was not aware of any change to that scheduled. Ecology accepted this response and agreed the action could be closed. *The action was closed.*

**Action No. 6 (TF-20-07-01):** ORP and Ecology agreed that this action (though it is technically to submit a 100% design, not 90%) is part of the RCRA permitting process and did not need to be tracked as a TPA action. *The action was closed.*

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**Action No. 7 (TF-20-08-01):** ORP stated it had emailed the Ecology Project Manager the requested information regarding which tanks its contractor had done leak assessments. Ecology acknowledged receiving the email and agreed to close the action. *The action was closed.*

## 2.0 SYSTEM PLAN

### Significant Past Accomplishments

ORP reported that the U.S. Environmental Protection Agency, ORP and Ecology met in the first mediated session of the holistic negotiations on June 25, 2020. ORP also reported that, as of June 2020, all internal comments on the draft of the River Protection Project System Plan, Rev. 9 have been received.

### Significant Planned Actions in the Next Six Months

ORP reported that essential mission-critical operations, with some added Phase 2 activities will continue in light of COVID-19-related restrictions. Additional work on planning for remobilization, engineering analysis, permitting documentation development, etc. by both DOE and site contractors will progress as conditions support. In addition:

- Ecology and ORP will discuss disputes with regard to milestone M-062-45 and its associated milestones during “Holistic Negotiations”
- The first working session of the holistic negotiations was held on August 5, 2020 and the parties continue to meet.
- Ecology and ORP will continue discussions in support of *River Protection System Plan*, Rev. 9, development, due October 31, 2020.

### Issues/Other Items

ORP noted that Ecology ended System Plan 8 negotiations with remaining issues and TPA disputes unresolved, but were to be possibly resolved via the Holistic Negotiations.

## 3.0 ACQUISITION OF NEW FACILITIES

ORP reported no change in this activity, but that there could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## 4.0 TANK-SIDE CESIUM REMOVAL SYSTEM

### Significant Past Accomplishments

- ORP reported that the balance of facilities pad conduit, the structural backfill, the mud mat pour, and the concrete pour for the TSCR unit were completed. Conduit and rebar installation for the control and ancillary units is in progress.
- Maintenance and Operations personnel have been training and preparing operating procedure drafts using the TSCR unit staged at the vendor location while waiting for the TSCR unit to be transported to the TSCR pad.

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- The TSCR ion exchange column storage pad backfill was completed. Formwork for the mud mat pour on the pad is in progress.

## Significant Planned Actions in the Next Six Months

- ORP reported that the TSCR was planned to be moved to the TSCR pad as early as this week (9/10/20).

## Issues/Other Items

None.

## 5.0 242-A EVAPORATOR STATUS

### Significant Past Accomplishments

ORP reported it had:

- Completed removal of aqueous makeup unit room in E-101 and E-104 tanks and set instrument air dryer in place
- Completed 90 percent design for the transfer line replacement
- Continued wall nozzle fabrication for the slurry and feed transfer line replacement.
- Completed actuator fabrication and functional testing
- Initiated work on the resolution of the universal joint potential inadequacy safety authorization basis (PISA) and the buried pipe PISA (see "Issues" below for more)
- Awarded Documented Safety Analysis upgrades panel design and fire modeling contracts
- Completed development of the 45 percent engineering design for the Documented Safety Analysis upgrades and initiated development of the 90 percent engineering design

### Significant Planned Actions in the Next Six Months

- Complete annual electrical preventive maintenance
- Complete installation of Proximity Security Entry System
- Procure new PB-1 and PB-2 replacement pumps
- Complete 100-percent design for transfer line replacement
- Complete Documented Safety Analysis panel design and fire modeling
- Complete instrument air dryer tie-in and turnover
- Continue wall nozzle fabrication for the slurry and feed transfer line replacement
- Complete work on the resolution of the universal joint PISA
- Complete work on the buried pipe PISA

### Issues/Other Items

- PISAs: Initial testing revealed an issue with the original universal joints on the actuators used to drive the valves. A PISA was written. Testing of different universal joints is needed and will be performed at the vendor's shop. The universal joint PISA is to address lower torque than expected. ORP will actuate a valve and place a camera down in the pit. If the universal joint were to break, the valve handle would turn, but the actual valve would not. The camera is to visually inspect to make sure that the valve is in the right

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position before completing a transfer. ORP is testing a redesign of the universal joint that is more robust. The buried pipe PISA will address depth and freeze protection.

- Ecology asked for more information on the DSA upgrades. ORP responded they were being done in response to a Defense Nuclear Facilities Safety Board concern regarding whether an automated switch to “dump the pot” would be more advisable in response to a seismic event, believing that an automatic action would possibly be better than relying on an individual to push the button. ORP is looking into this, but has concerns that an automated switch may be tripped by something other than a seismic event, such as nearby construction activities.

## 6.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

### Significant Past Accomplishments

ORP reported the following:

- Total FY20 processing volume: ~1 million gallons
- ETF:
  - Completed chiller upgrade
  - Completed tank repair verification
  - Completed ultraviolet/oxidation system upgrade detailed design review
  - Completed final design modifications for brine loadout system – this is an upgrade allowing a switch to brine liquid from powder and allowing greater capacity
  - Completed final design review for monitoring and control system upgrade
  - Completed preliminary design reviews for supplemental organic treatment system, load-in station building expansion, vessel off-gas system upgrade, and redundant filtration upgrade
  - Began pre-conceptual design of the motor control center upgrade, carbon dioxide membrane contactors upgrade, and freeze protection upgrade
  - Began procurement activities for design services of the module grout system, brine storage tanks and chiller addition
- LERF Basin 41:
  - Completed installation final design

### Significant Planned Actions in the Next Six Months

- Complete design of the ETF Load-In Station building expansion
- Complete design of the ETF redundant filtration upgrade
- Complete design of the ETF Vessel Off-Gas System upgrade
- Complete design of the ETF supplemental organic treatment system
- Complete design of the ETF freeze protection upgrade
- Complete design of the ETF carbon dioxide membrane contactors
- Complete design of the ETF brine storage tanks
- Complete design of the ETF Motor Control Center
- Complete design of the ETF modular grout system

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## Issues/Other Items

ORP reported that work has paused on the LERF Basin 44 cover replacement project while nuclear safety evaluations are performed by WRPS and ORP. Evaluations are being performed due to visual indication of solid material in the basin and sample results from that material. Two options to repair/replace the LERF Basin 44 cover have been developed and issued to vendors for bid proposals. ORP reported and update that it had just issued direction to the contractor, within the last week to have it submit a justification for continued operation (JCO), which is a validation that work is safe to continue.

## **7.0 TANK SYSTEM UPDATE**

### **7.1 Double-Shell Tank Integrity**

#### Significant Past Accomplishments

ORP noted the following activities:

- COVID-19 restrictions have slowed work
- Received and installed a retractable corrosion monitoring probe in Tank 241-AY-101
- Completed ultrasonic testing inspections: 241-AW-102, 241-AW-101
- Completed enhanced annulus visual inspection: 241-AW-101, 241-AW-102, 241-AW-103, 241-AW-104, 241-AW-105, 241-AW-106, 241-SY-101, 241-SY-102, 241-SY-103.
- Completed annulus visual inspection of 241-AY-102 thru risers 88 & 89
- Revised RPP-RPT-31599, DST Integrity Inspection Report for 241-AN
- Released RPP-RPT-62123, Ultrasonic Inspection and Air Slot Visual Inspection Results for DST 241-AW-102
- Issued a contract to fabricate, test, and deliver a primary tank bottom volumetric inspection system
- Issued a contract to design and fabricate a tertiary leak detection inspection tool

#### Significant Planned Actions in the Next Six Months

- Complete Tank 241-AW-106 ultrasonic testing (expected to begin in the next two weeks)
- Fabricate and install retractable corrosion monitoring probes in Tanks 241-AP-102 and 241-AZ-101

## Issues/Other Items

None.

## **7.2 Single-Shell Tank Integrity**

#### Significant Past Accomplishments

- Performed TFC-ENG-CHEM-P-57, *Intrusion Notification and Tank Leak Assessment Process*, on: 241-SX-104, 241-T-109

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- Completed visual inspections of: 241-TX-101, 241-TX-102, 241-TX-104, 241-TX-107, 241-S-103, and 242-2-110, 241-BX-112, 241, BY-107, 241-SX-112, 241-TX-110, 241-BX-109, 241-B-107, 241-BX-108, 241-BX-105, 241-SX-112, 241-SX-109
- Completed work package planning for visual inspection of five miscellaneous underground storage tanks

## **Significant Planned Actions in the Next Six Months**

- Perform TFC-ENG-CHEM-P-57, Intrusion Notification and Tank Leak Assessment Process on Tank 241-TX-113 (in progress)
- Perform Tank 241-SX-112 Leica laser scan (Reported COMPLETE)
- Perform Tank 241-SX-108 visual inspection (Reported COMPLETE)
- Perform Tank 241-SX-111 visual inspection
- Perform Tank 241-B-109 visual inspection (scheduled for the third week in Sept.)

## **Issues/Other Items**

- Tank 241-SX-112 was visually inspected in late February and there were three spots of spalled concrete in the dome. Further investigation is ongoing and a path forward is being developed. There is no evidence of structural issues; however, the dome loading is being limited to current levels until further analysis is complete. The full analysis may take several months to complete.
- Tank 241-SX-109 was inspected visually in late July. Spalled concrete was identified in the northeast portion of the tank dome next to a rectangular construction manhole. Additional small/shallow spalling locations, similar to those in Tank 241-SX-112, were noted on the tank dome. Concrete has been noted on the waste surface, and, comparing to past visual inspections, suggests that the spalling occurred post-1996.

## **8.0 IN-TANK CHARACTERIZATION AND SUMMARY**

### **8.1 Reports Completed or Released**

ORP completed three reports and released one. For details, please refer to page 25 of the July 2020 TPA monthly report.

### **8.2 Tank Sampling**

## **Significant Past Accomplishments**

- Nothing noted

## **Significant Planned Actions in the Next Six Months**

- Tank 241-AN-106 core sampling is planned for September 2020.
- Tank 241-AN-106 liquid grab sampling is planned for September 2020.
- Tank 241-AP-107 large volume grab sampling is planned for October 2020.
- Tank 241-AX-102 post-retrieval solids grab sampling is planned for October 2020(delayed for the 222-S Laboratory outage).
- Tank 241-A-104 Off Riser Sampling System sampling is planned for November 2020.

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- Catch Tank C-301 grab sampling is planned for December 2020.

## Issues/Other Items

- ORP noted two ongoing activities in tank AX-102 to gather information for making a determination whether to deploy a third retrieval technology or not. One is the sample volume analysis, which is a visual inspection. The other is the grab sampling. ORP reported it has been working with Ecology for agreement on the samples being taken.

## 8.3 Best-Basis Inventory Updates

### Significant Past Accomplishments

- Best-basis inventory updates for the following tanks were completed in July 2020: 241-AX-103, 241-BX-107.

### Significant Planned Actions in the Next Six Months

- Best-basis inventory updates for the following tanks are currently planned to be completed in August 2020: 241-AN-101, 241-BX-106, 241-BX-111, 241-BY-105, 241-TX-111, 241-TX-114, 241-U-105, 241-U-112.

## Issues/Other Items

- None reported

## 9.0 SINGLE-SHELL TANK CLOSURE PROGRAM

### Significant Past Accomplishments

ORP reported the following completed activities:

- Submitted revisions and comment responses to Ecology for RPP-RPT-59389, Tier 2 Resource Conservation and Recovery Act (RCRA) Closure Action Plan for Waste Management Area C; RPP-RPT-59390, Tier 3 Resource Conservation and Recovery Act (RCRA) Component Closure Activity Plan for 241-C-200 Series Tanks; and RPP-RPT-58858, Tier 1 Closure Plan Single-Shell Tank System
- Continued permitting workshops with Ecology for the SST closure plans in the Hanford Site-wide permit
- Analysis of the Tank 241-C-106 in-tank videos have yielded the Camera/Computer Aided Design Modeling System volume estimate of 285.98 cubic feet, actual volume (calculation) 316.66 cubic feet, and 95 percent upper confidence level 334.92 cubic feet
- Mobilized subcontract labor and equipment to start field activities on the TX Evapotranspiration Basin
- A cultural resource review was prepared and submitted for Washington State Historic Preservation Officer and tribal review in support of the barriers at the TX Barrier Special Emphasis Area and National Environmental Policy Act. Based on the review determination, there are no cultural resource concerns related to the construction of the Evapotranspiration barrier.

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- Completed clearing and grubbing, as well as pot holing, and started mass excavation on the TX Evapotranspiration Basin (mass excavation is 70 percent complete)
- Held M-045-56 Milestone pre-meeting with Ecology, DOE, and Washington River Protection Solutions LLC staff on June 16, 2020
- Conducted the M-045-56 Milestone annual meeting on July 9, 2020

## **Significant Planned Activities in the Next Six Months**

ORP reported the following planned activities:

- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858
- Complete mass excavation and liner installation on the TX Evapotranspiration Basin (Update: this activity reported as COMPLETED)
- Revise RPP-RPT-61684, *Maintenance and Performance Monitoring Plan*, to incorporate comments received via Ecology letter 20-NWP-106

## **Issues/Other Items**

- Interagency Management Integration Team decisions for the four issues on RPP-RPT-58329, Baseline Risk Assessment for Waste Management Area C, have been stalled since the February 21, 2019 meeting. (NOTE: this issue has been resolved).

## **10.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM**

### **Significant Past Accomplishments**

Refer to the Consent Decree portion of these meeting minutes (page 14 section 2.0).

### **Significant Planned Activities in the Next Six Months**

Refer to the Consent Decree portion of these meeting minutes (page 14, section 2.0).

### **Issues**

Refer to the Consent Decree portion of these meeting minutes (page 14, section 2.0).

## **11.0 TANK OPERATIONS CONTRACT OVERVIEW**

The earned value data can be viewed in the July 2020 ORP TPA Monthly Report on pages 11-33.

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## 1.0 CONSENT DECREE MILESTONES/ADMINISTRATIVE ACTIONS

### Consent Decree Milestones

ORP reported milestones as On Schedule, At Risk, or Under Analysis (see pages 3-4 of the ORP July 2020 Consent Decree Monthly Report).

### Consent Decree Issues and Action Items

For reference, see attached "ORP/Ecology TPA and CD Agreements, Issues and Action Items – September 2020 Meeting."

### Action Items

**Action #1:** ORP reported that all equipment is either stored at the Material Handling Facility or at a facility in Yakima, WA. There are no plans to store the material in either the High-Level Waste or Pretreatment facilities. *The action was closed.*

## 2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

### Significant Accomplishments during the Prior Month

- Mobilized equipment to start removal of AY Farm to AP Farm hose-in-hose transfer line (HIHTL) in support of future A Tank Farm HIHTL installation.
- Completed small HIHTL Hose Barn and shield plate removal between AX Farm and AP Farm.
- Continued the preparation of the practicability evaluation in support of the request to forego the third retrieval technology for Tank AX-102
- Continued the procurement of the residual volume measurement system. The residual volume measurement system and camera / Computer Aided Design modeling system will be deployed to calculate the Tank AX-102 residual waste volume
- Continued removal of AY Farm to AP Farm HIHTL removal in support of future A Tank Farm HIHTL installation

### Significant Planned Activities in the Next Month

- Complete Tank AX-104 D Pit extended reach sluicer system installation into tank, and initiate system connections in preparation for integrated system leak testing
- Complete A Tank Farm exhaust ventilation system and turnover to Operations
- Complete removal of large concrete shielding of HIHTL between AY to AP Tank Farms

### Issues/Other Items

- ORP referred to pages 8-9 of the July 2020 Consent Decree Monthly Report for the complete listing of issues.

## 3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

### Significant Accomplishments during the Prior Month

ORP reported no activity.

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## Significant Planned Activities in the Next Month

ORP reported no new activity.

## **4.0 RETRIEVE AND CLOSE SINGLE-SHELL TANKS**

### Significant Accomplishments during the Prior Month

ORP reported no activity.

### Significant Planned Activities in the Next Month

ORP reported no new activity.

## **5.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT**

ORP referred to an extensive write-up on pgs. 13-19 of the July 2020 Consent Decree Report.

As a general overview of the project and the impacts from the COVID-19 pandemic, ORP noted that the impacts shutdown as a result of COVID-19 pandemic generally fell into three groups: areas where work could not be performed due to COVID restrictions; the additional work needed to get project personnel mobilized to where limited work could be performed; and then, once mobilized (or partially mobilized) work was inefficient as compared to pre-COVID. The resulting impacts span from mid-March to August 2020. Now personnel are dealing with reconfiguration of facilities to address COVID protocols and social distancing, as well as establishing medical facilities set up various places for temperature checks. The overall result has been inefficiencies.

Ecology asked if ORP had enough information on the impacts from COVID-19 and the projected schedule for working with new COVID-19 protocols to produce a rebase line of the project. ORP responded that it predicts a gradual increase in spending in the next few months, and that will inform it rebaselining effort.

## **6.0 PRETREATMENT FACILITY**

### Project Schedule and Cost Variance Performance

The earned value data can be viewed in the July 2020 ORP Consent Decree Monthly Report on page 22.

### Significant Accomplishments during the Prior Month

- Continued to manage suspended plant equipment purchase orders to reduce storage and suspension costs, and evaluated ways to reduce project procurement liability
- Continued to implement ongoing asset maintenance at the PT Facility to protect equipment and structures, and ensure design documents were maintained

### Significant Planned Activities in the Next Month

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- Continue to manage suspended plant equipment purchase orders to reduce storage and suspension costs and evaluate ways to reduce project procurement liability
- Continue to implement asset maintenance at the PT Facility to protect equipment and structures and to ensure design documents are maintained

## Issues/Other Items

- ORP reported 54 plant purchase orders were suspended, and of those, 17 were considered Priority One, due to high storage costs. Of the 17 Priority One, 16 have been completed. Ecology asked about criteria for the ranking of Priority One versus Priority Two. ORP responded that large items with high storage costs like North West Copper vessels, cranes and shield doors were high priority, followed by items that will either be obsolete by startup or will not be needed for some time. Examples included transmitters, flow meters, instrumentation and closed-circuit televisions.

## 7.0 HIGH-LEVEL WASTE FACILITY

### Project Schedule and Cost Variance Performance

The earned value data can be viewed in the July 2020 ORP Consent Decree Monthly Report on page 25.

### Significant Accomplishments during the Prior Month

- Continued to perform engineering design activities and hazard analysis for the key mechanical and process systems (melter feed process and the primary offgas process systems)
- Completed the 60 percent design review of the HLW Melter Offgas System includes HLW Offgas Treatment Process System, Process Vessel Vent Exhaust System, and Pulse Jet Ventilation System) in July 2020 (ahead of schedule)
- Continued to manage suspended plant equipment purchase orders to reduce storage and suspension costs and evaluate ways to reduce project procurement liability
- Continued to implement asset maintenance at the HLW Facility to protect equipment and structures and to ensure design documents were maintained

### Significant Planned Activities in the Next Month

- Continue to perform engineering design activities and hazard analysis for key mechanical and process systems. Priority systems for fiscal year 2020 include the design of the HLW Facility melter feed process and the primary offgas process systems
- Conduct 60 percent design review of the HLW Melter Process System in August 2020
- Continue to manage suspended plant equipment purchase orders to reduce storage and suspension costs and to evaluate ways to reduce project procurement liability
- Continue to implement asset maintenance at the HLW Facility to protect equipment and structures and to ensure design documents are maintained

## Issues/Other Items

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- The Department of Energy has completed the Analysis of Alternatives Report and both ORP and Ecology are reviewing. ORP stated it may seek additional alternatives in an effort to find a more cost efficient method.
- ORP noted that focus areas for the project include working on the C5 ventilation system and the melter structural design with updated seismic criteria. Also the project is looking at new Ashfall Design criteria, as part of the National Phenomena Hazards (NPH). All are projects that were started some time ago and have now been restarted.

## 8.0 LOW-ACTIVITY WASTE FACILITY

### Project Schedule and Cost Variance Performance

The earned value data can be viewed in the July 2020 ORP Consent Decree Monthly Report on page 28.

### Significant Accomplishments during the Prior Month

- Continued pressurization of the LAW Facility fire-water service system
- Construction continued limited completion activities for LAW Facility systems
- Startup organization continued limited testing of LAW Facility systems
- Continued limited punch list resolution for LAW Facility system testing

### Significant Planned Activities in the Next Month

- Construction will continue limited completion activities for LAW Facility systems
- Startup organization will continue limited testing of LAW Facility systems
- BNI will continue limited punch list resolution for LAW Facility system testing

### Issues/Other Items

None reported.

## 9.0 BALANCE OF FACILITIES

### Project Schedule and Cost Variance Performance

The earned value data can be viewed in the July 2020 ORP Consent Decree Monthly Report on page 30.

### Significant Accomplishments during the Prior Month

- Continued site paving
- Operated the Steam Plant to continue system testing and support methods validation efforts in the LAB
- Completed excavating around the EMF for installation of transfer piping
- Completed the connection of waste transfer piping to the piping manifold above the EMF low point drain
- Continued limited system walkdowns to support turnover to the Startup organization
- Returned the majority of BOF systems to operation

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- Engineering continued to provide design support for EMF construction and BOF startup activities.

### **Significant Planned Activities in the Next Month**

- Complete startup testing for Steam Plant systems

### **Issues/Other Items**

- Ecology asked if all the transfer lines had been installed for EMF. ORP responded that all but the effluent line to LERF were complete.

## **10.0 ANALYTICAL LABORATORY**

### **Project Schedule and Cost Variance Performance**

The earned value data can be viewed in the July 2020 ORP Consent Decree Monthly Report on page 32.

### **Significant Accomplishments during the Prior Month**

- Performed limited method validation activities
- Continued fume hood testing and certification to support methods validation activities
- Recommended commissioning for the high purity gas systems
- Continued resolution of outstanding punch list activities
- Progressed program implementation activities, where possible, to support LAB readiness for operation

### **Significant Planned Activities in the Next Month**

- Continue working toward completion of the commissioning effort for the LAB high purity gas systems

### **Issues/Other Items**

- ORP reported that the facility has instituted a daily “plan of day” meeting, a sign that it is progressing towards full operations.
- The project is working on a modification to the fume hoods to address a differential issue.

## **11.0 DIRECT FEED LOW-ACTIVITY WASTE**

ORP shared the DFLAW integrated schedule (see attachment) and overall, reported that the DFLAW project is starting to ramp up after remobilization after the COVID-19 slowdown. In July 2020, the project actually reflected less than day-for day-impacts. ORP expects August and September to also reflect schedule improvements.

The DFLAW project conducts a critical path analysis on all of the project activities to ensure that all of the logic times are accurate between the waste treatment plant and the various projects that

**OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT  
DECREE MONTHLY PROJECT MANAGERS' MEETING**

have to support the waste treatment plant. This data is reflected in the integrated monthly schedule. Startup of the Waste Treatment Plant remains on critical path and is logic-tied to DFLAW and its subprojects.



# THE HANFORD SITE

## Office of River Protection Tri-Party Agreement

Monthly Reporting Period  
July 1 – 31, 2020

## Significant Past Accomplishments

- As of July 2020, all of the comments associated with the River Protection Project System Plan, Rev. 9, have been received from the internal ORP review. Comment incorporation is in progress.
- The U.S. EPA, DOE, and Ecology met in the first mediated session of the holistic negotiations on June 25, 2020.

## Significant Planned Actions in the Next Six Months

- Discuss disputes with regard to milestone M-062-45 and its associated milestones during holistic negotiations.
- The first working session of the holistic negotiations is scheduled for August 5, 2020.
- Ecology and ORP will continue discussions in support of River Protection System Plan, Rev. 9, development, due October 31, 2020.

## Issues

- Ecology and ORP have ended negotiations related to the M-062-45 milestone and have initiated dispute. Holistic negotiations are planned to resolve these disputes.

Comments applicable to each issues section in this presentation:

- On March 24, 2020, the Hanford Site moved to an essential mission-critical operations posture in recognition of increasing COVID-19 concerns. While the majority of the Hanford Site workforce continues to telework, there are a limited number of workers reporting to the site to perform activities necessary to maintain the site in a safe condition, continuing to protect the community, region, and the environment. Additional work on planning for remobilization, engineering analysis, permitting documentation development, etc. by both the DOE and site contractors progresses as conditions allow.
- On May 20, 2020, DOE authorized the Hanford Site to move to Phase 1. Hanford Site operations began Phase 1 on May 26, 2020. During Phase 1, essential mission-critical operations were continued and targeted mobilization and low-risk workscope, such as implementation of COVID-19 protocols to infrastructure and facilities, required training, medical evaluations, and limited construction activities were added.
- DOE and its contractors are engaged in ongoing analysis of work schedule impacts. DOE is continuing to evaluate the information and COVID-19 potential impacts on the TPA and, if other actions may be necessary.

## Issues

- Ecology and ORP have ended negotiations related to the M-062-45 milestone and have initiated dispute. Holistic negotiations are planned to resolve these disputes.

## Significant Past Accomplishments

- The balance of facilities pad conduit, the structural backfill, the mud mat pour, and the concrete pour for the TSCR unit were completed. Conduit and rebar installation for the control and ancillary units is in progress.
- Maintenance and Operations personnel have been training and preparing operating procedure drafts using the TSCR unit staged at the vendor location while waiting for the TSCR unit to be transported to the TSCR pad in August.
- The TSCR ion exchange column storage pad backfill was completed. Formwork for the mud mat pour on the pad is in progress.

## Significant Past Accomplishments

- Completed removal of aqueous makeup unit room in E-101 and E-104 tanks and set instrument air dryer in place.
- Completed 90 percent design for the transfer line replacement.
- Continued wall nozzle fabrication for the slurry and feed transfer line replacement.
- Completed actuator fabrication and functional testing.
- Initiated work on the resolution of the universal joint PISA and the buried pipe PISA.
- Awarded Documented Safety Analysis upgrades panel design and fire modeling contracts.
- Completed development of the 45 percent engineering design for the Documented Safety Analysis upgrades and initiated development of the 90 percent engineering design.

## Significant Planned Actions in the Next Six Months

- Complete annual electrical preventive maintenance.
- Complete installation of Proximity Security Entry System.
- Procure new PB-1 and PB-2 replacement pumps.
- Complete 100-percent design for transfer line replacement.
- Complete Documented Safety Analysis panel design and fire modeling.
- Complete instrument air dryer tie-in and turnover.
- Continue wall nozzle fabrication for the slurry and feed transfer line replacement.
- Complete work on the resolution of the universal joint PISA.
- Complete work on the buried pipe PISA.

## Issues

- Initial testing revealed an issue with the original universal joints on the actuators used to drive the valves. A PISA was written. Testing of different universal joints is needed and will be performed at the vendor's shop.

## Significant Past Accomplishments

- Total FY20 processing volume: ~1 million gallons
- ETF:
  - Completed chiller upgrade
  - Completed tank repair verification
  - Completed ultraviolet/oxidation system upgrade detailed design review
  - Completed final design modifications for brine loadout system upgrade
  - Completed final design review for monitoring and control system upgrade
  - Completed preliminary design reviews for supplemental organic treatment system, load-in station building expansion, vessel off-gas system upgrade, and redundant filtration upgrade
  - Began pre-conceptual design of the motor control center upgrade, carbon dioxide membrane contractors upgrade, and freeze protection upgrade
  - Began procurement activities for design services of the module grout system, brine storage tanks and chiller addition
- LERF Basin 41:
  - Completed installation final design

## Significant Planned Actions

- Complete design of the ETF Load-In Station building expansion
- Complete design of the ETF redundant filtration upgrade
- Complete design of the ETF Vessel Off-Gas System upgrade
- Complete design of the ETF supplemental organic treatment system
- Complete design of the ETF freeze protection upgrade
- Complete design of the ETF carbon dioxide membrane contactors
- Complete design of the ETF brine storage tanks
- Complete design of the ETF Motor Control Center
- Complete design of the ETF modular grout system

## Issues

- Work has paused on the LERF Basin 44 cover replacement project while nuclear safety evaluations are performed by WRPS and ORP. Evaluations are being performed due to visual indication of solid material in the basin and sample results from that material. Two options to repair/replace the LERF Basin 44 cover have been developed and issued to vendors for bid proposals.

# Liquid Effluent Retention and 200 Area Effluent Treatment Facilities

## LERF Volumes

Description	242AL-42 (Basin 42)	242AL-43 (Basin 43)	242AL-44 (Basin 44)
AZ-301 Condensate	+6,200	-	-
Mixed Waste Trench 31 and 34	+21,400	-	-
Other	-	-	-
Processing Campaign(s)	-	-	-
<b>Total Volume</b>	2,914,000	6,473,000	803,000 <sup>1</sup>

Data Date: July 30, 2020  
 Values shown in gallons

<sup>1</sup> The increase in volume in Basin 44 includes water added to the cover for dust suppression.

## Significant Past Accomplishments

- Received and installed a retractable corrosion monitoring probe in Tank 241-AY-101.
- Completed ultrasonic testing inspections: 241-AW-102, 241-AW-101.
- Completed enhanced annulus visual inspection: 241-AW-101, 241-AW-102, 241-AW-103, 241-AW-104, 241-AW-105, 241-AW-106, 241-SY-101, 241-SY-102, 241-SY-103.
- Completed annulus visual inspection of 241-AY-102 thru risers 88 & 89.
- Revised RPP-RPT-31599, DST Integrity Inspection Report for 241-AN.
- Released RPP-RPT-62123, Ultrasonic Inspection and Air Slot Visual Inspection Results for DST 241-AW-102.
- Issued a contract to fabricate, test, and deliver a primary tank bottom volumetric inspection system.
- Issued a contract to design and fabricate a tertiary leak detection inspection tool.

## Significant Planned Actions

- Complete Tank 241-AW-106 ultrasonic testing.
- Fabricate and install retractable corrosion monitoring probes in Tanks 241-AP-102 and 241-AZ-101.

## Significant Past Accomplishments

- Performed TFC-ENG-CHEM-P-57, *Intrusion Notification and Tank Leak Assessment Process*, on: 241-SX-104, 241-T-109
- Completed visual inspections of: 241-TX-101, 241-TX-102, 241-TX-104, 241-TX-107, 241-S-103, and 242-2-110, 241-BX-112, 241, BY-107, 241-SX-112, 241-TX-110, 241-BX-109, 241-B-107, 241-BX-108, 241-BX-105, 241-SX-112, 241-SX-109
- Completed work package planning for visual inspection of five miscellaneous underground storage tanks.

## Significant Planned Actions

- Perform TFC-ENG-CHEM-P-57, Intrusion Notification and Tank Leak Assessment Process, on Tank 241-TX-113 (in progress).
- Perform Tank 241-SX-112 Leica laser scan.
- Perform Tank 241-SX-108 visual inspection.
- Perform Tank 241-SX-111 visual inspection.
- Perform Tank 241-B-109 visual inspection.

## Issues

- Tank 241-SX-112 was visually inspected in late February and there were three spots of spalled concrete in the dome. Further investigation is ongoing and a path forward is being developed. There is no evidence of structural issues; however, the dome loading is being limited to current levels until further analysis is complete. The full analysis may take several months to complete.
- Tank 241-SX-109 was inspected visually in late July. Spalled concrete was identified in the northeast portion of the tank dome next to a rectangular construction manhole. Additional small/shallow spalling locations, similar to those in Tank 241-SX-112, were noted on the tank dome. Concrete has been noted on the waste surface, and, comparing to past visual inspections, suggests that the spalling occurred post-1996.

## Significant Planned Actions

- Tank 241-AN-106 core sampling is planned for September 2020.
- Tank 241-AN-106 liquid grab sampling is planned for September 2020.
- Tank 241-AP-107 large volume grab sampling is planned for October 2020.
- Tank 241-AX-102 post-retrieval solids grab sampling is planned for October 2020(delayed for the 222-S Laboratory outage).
- Tank 241-A-104 Off Riser Sampling System sampling is planned for November 2020.
- Catch Tank C-301 grab sampling is planned for December 2020.

## Significant Past Accomplishments

- Completed in July: 241-AX-103, 241-BX-107.

## Significant Planned Actions

- To be completed in August 2020: 241-AN-101, 241-BX-106, 241-BX-111, 241-BY-105, 241-TX-111, 241-TX-114, 241-U-105, 241-U-112.

## Significant Past Accomplishments

- Submitted revisions and comment responses to Ecology for RPP-RPT-59389, Tier 2 Resource Conservation and Recovery Act (RCRA) Closure Action Plan for Waste Management Area C; RPP-RPT-59390, Tier 3 Resource Conservation and Recovery Act (RCRA) Component Closure Activity Plan for 241-C-200 Series Tanks; and RPP-RPT-58858, Tier 1 Closure Plan Single-Shell Tank System.
- Continued permitting workshops with Ecology for the SST closure plans in the Hanford Sitewide permit.
- Analysis of the Tank 241-C-106 in-tank videos have yielded the Camera/Computer Aided Design Modeling System volume estimate of 285.98 cubic feet, actual volume(calculation) 316.66 cubic feet, and 95 percent upper confidence level 334.92 cubic feet.
- Mobilized subcontract labor and equipment to start field activities on the TX Evapotranspiration Basin.

## Significant Past Accomplishments continued

- A cultural resource review was prepared and submitted for Washington State Historic Preservation Officer and tribal review in support of the barriers at the TX Barrier Special Emphasis Area and National Environmental Policy Act. Based on the review determination, there are no cultural resource concerns related to the construction of the Evapotranspiration barrier.
- Completed clearing and grubbing, as well as pot holing, and started mass excavation on the TX Evapotranspiration Basin (mass excavation is 70 percent complete).
- Held M-045-56 Milestone pre-meeting with Ecology, DOE, and Washington River Protection Solutions LLC staff on June 16, 2020.
- Conducted the M-045-56 Milestone annual meeting on July 9, 2020.

## Significant Planned Actions

- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858.
- Complete mass excavation and liner installation on the TX Evapotranspiration Basin.
- Revise RPP-RPT-61684, *Maintenance and Performance Monitoring Plan*, to incorporate comments received via Ecology letter 20-NWP-106.

## Issues

- Interagency Management Integration Team decisions for the four issues on RPP-RPT-58329, *Baseline Risk Assessment for Waste Management Area C*, have been stalled since February 21, 2019.



# THE HANFORD SITE

## Office of River Protection Consent Decree Monthly Report

Monthly Reporting Period  
July 1 – 31, 2020

## Significant Accomplishments during the Prior Month

- Mobilized equipment to start removal of AY Farm to AP Farm hose-in-hose transfer line (HIHTL) in support of future A Tank Farm HIHTL installation.
- Completed small HIHTL Hose Barn and shield plate removal between AX Farm and AP Farm.
- Continued the preparation of the practicability evaluation in support of the request to forego the third retrieval technology for Tank AX-102.
- Continued the procurement of the residual volume measurement system. The residual volume measurement system and camera / Computer Aided Design modeling system will be deployed to calculate the Tank AX-102 residual waste volume.
- Continued removal of AY Farm to AP Farm HIHTL removal in support of future A Tank Farm HIHTL installation.

## Significant Planned Activities in the Next Month

- Complete Tank AX-104 D Pit extended reach sluicer system installation into tank, and initiate system connections in preparation for integrated system leak testing.
- Complete A Tank Farm exhaust ventilation system and turnover to Operations
- Complete removal of large concrete shielding of HIHTL between AY to AP Tank Farms.

## Issues

- Issues available in the report

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items –September 2020 Meeting

### Agreements:

1. Per an Ecology standing request (4/21/2016), ORP agrees to include any written directives given by DOE to the contractors for work required by the CD in future quarterly CD Reports (see CD Section IV-C-1-e).
2. The ORP and Ecology PMs have developed, signed, and entered an outline for the CD Tank Completion Certification into the TPA Administrative Record. A briefing to senior management will occur if any follow-on actions arise.
3. Ecology and ORP have agreed to move the TPA/CD PMM meeting to the second Thursday of the month starting in December 2019. The TPA and CD monthly reports distribution will occur by the end of each month via link to the Admin Record. Ecology requested at the December 2019 meeting that this form be included with the email that includes the links to the monthly reports. This will be the format for report distribution and monthly meetings going forward for calendar year 2020.

### Issues:

1. Appendix H step 2b, has not been completed. USDOE have submitted Single-Shell Tank (SST) WMA (Waste Management Area)-C Closure Plans without any indication of the role and participation for Nuclear Regulatory Commission (NRC), or a plan for completing this step.
2. Appendix I – USDOE has presented an inaccurate process for closure of the Tank Farms, and of WMA-C. Appendix I has defined the expectations of the Tri-Parties, and a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) decision has not been an assumption from any of the Tri-Parties.
  - a. Appendix I, Section 3.1 states: “Ecology<sup>1</sup> is the lead regulatory agency responsible for the closure of the SST system. EPA<sup>2</sup> is the support regulatory agency providing oversight of the state’s authorized program.”; “The Parties’ expect that this Agreement Appendix I will incorporate Agreement Section 5.5 processes to provide a mechanism for avoiding duplicative regulation between Ecology and the EPA through the lead agency concept.”; “EPA will evaluate the need to provide additional comments based on its review of proposed modifications to WMA closure action plans, and issue additional comments to Ecology as necessary.”
  - b. Appendix I, Section 3.2 states: “A consistent groundwater monitoring, protection, and risk assessment methodology will also be realized through close integration of activities, as described in the Hanford Site Groundwater Strategy (DOE/RL-2002-59). Consistent application of the requirements of this Appendix I will serve to aid the Parties in ensuring cost effective and consistent cleanup on the Central Plateau.”
  - c. Section 5.5 of the TPA (Action Plan): “The information necessary for performing RCRA<sup>3</sup> closures/post-closures within an operable unit will be provided in various RFI<sup>4</sup>/CMS<sup>5</sup> documents. The initial work plan will contain a Sampling and Analysis Plan (SAP) for the

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<sup>1</sup> Washington State Department of Ecology

<sup>2</sup> Environmental Protection Agency

<sup>3</sup> Resource Conservation & Recovery Act

<sup>4</sup> RCRA Facility Investigation

<sup>5</sup> Corrective Measure Study

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items –September 2020 Meeting

associated RCRA units and it will outline the manner in which RCRA closure/post-closure plan requirements will be met in the work plan and subsequent documents. The selected closure/post-closure method and associated design details will (unless otherwise agreed to by the parties) be submitted as part of the CMS report at a later date, as specified in the work plan.” “In any case, the parties agree that CERCLA remedial actions and, as appropriate, HSWA<sup>6</sup> corrective measures will comply with ARARs<sup>7</sup>.”

- d. Section 5.6: “The EPA and Ecology have selected a lead regulatory agency approach to minimize duplication of effort and maximize productivity. Either the EPA or Ecology will be the lead regulatory agency for each operable unit, TSD<sup>8</sup> group/unit or milestone. The lead regulatory agency for a specific operable unit, TSD group/unit or milestone will be responsible for overseeing the activities covered by this action plan that relate to the successful completion of that milestone or activities at that operable unit or TSD group/unit, ensuring that all applicable requirements are met.”

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<sup>6</sup> 1984 Hazardous and Solid Waste Amendments

<sup>7</sup> Applicable or Relevant and Appropriate Requirements

<sup>8</sup> Treatment, Storage, and/or Disposal

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items –September 2020 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	TF-20-01-01 9 Jan 2020	Provide a status update at next month's PMM on milestone M-062-50 "Submit to Ecology as a Secondary Document, a Mass Balance Flow Sheet"		Brian Harkins	Open
2	TF-20-01-03 9 Jan 2020	Ecology to be included in discussions on how ORP is dealing with the issue of ETF not being able to handle the amount of Iodine that would be produced from DFLAW operations, and ORP's options therein. Ecology understands it is early in the process however. Their POCs for this issue are Dan McDonald and Katie Hall	On January 21, 2020, there was a briefing to Ecology/Oregon on the path forward for Iodine 129 by the Fix It Now Team. ORP recommends closing this action.(31 Jan 2020)	Richard Valle	Open
3	TF-20-02-01 13 Feb 2020	ORP to schedule a walkdown on TSCR	ECY POC is Dan McDonald	Janet Diediker	Open
4	TF-20-02-02 13 Feb 2020	ORP to send Ecology the AP-106 Repurposing Report to ECY		Brian Harkins	Open
5	TF-20-03-01 13 Mar 2020	Provide Ecology notice when the DST permitting plan effort begins.	DOE to see if there a DST permitting plan.	Brian Harkins	Open
6	TF-20-07-01 09 July 2020	ORP to provide 90% Evaporator Design to Ecology	Need clarification if this is a request related to a RCRA permit modification and if so which modification.	Brian Harkins	open
7	TF-20-08-01 08 Aug 2020	ORP to determine what tanks WRPS has notified Ecology		Brian Harkins	Open

**ORP/Ecology TPA and CD Agreements, Issues, and Action Items –September 2020 Meeting**

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		about leak assessments on and also what tanks currently are undergoing leak assessments			

## ORP/Ecology TPA and CD Agreements, Issues, and Action Items –September 2020 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1		DOE to discuss storage of equipment for WTP at WTP	No actions for WTP	Wahed	9 July 2020

**Office of River Protection  
Monthly Tri-Party Agreement Project Managers Meeting  
September 10, 2020**

**ATTENDEES**

Brian Harkins, ORP  
Bryan Trimberger, ORP  
Jeff Rambo, ORP  
Erik Olds, ORP  
Rana Evans, ORP  
Mary Burandt, ORP  
Kaylin Burnett, ORP  
Rod Lobos, ORP  
Jeff Rambo, ORP  
Jason Young, ORP  
Larry Romine, ORP  
Craig, Whiteley, ORP  
Isabelle, Wheeler, ORP  
Briana Lundberg, ORP  
Roger Szelmeczka, WRPS  
Eric Van Mason, WRPS

Holly Bowers, WRPS  
Craig, Whiteley  
Michael Turner, MSA  
Stephanie Brasher, MSA  
John Temple, Ecology  
Steve Lowe, Ecology  
Jay Decker, Ecology  
Jeff Lyon, Ecology  
Andrew Pomiak, Ecology  
Jim Alzheimer, Ecology  
Kyle Rucker, Ecology  
Maria Skorska, Ecology  
Devon Silva, Ecology  
Chris Wend, Ecology  
John Temple, Ecology