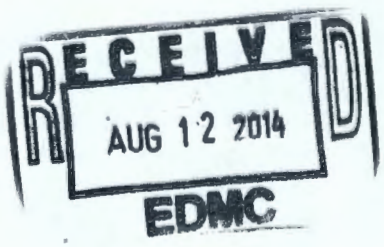
Meeting Minutes Transmittal

LERF/200 Area ETF and WESF
Project Managers Meeting
825 Jadwin / Room 540S
Richland, Washington
June 26, 2014

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting. Signatures denote concurrence with the content only and are not intended to imply agreement to any commitments.

Frederick Bond Date: 7-Aug 2014
Project Manager Representative, Ecology

Date: 24 July 2014
Project Manager Representative, RL



LWFS Administrative Record	H6-08
FW Bond	H0-57
MS Collins	A6-38
KA Conaway	H0-57
BJ Dixon	T3-11
RH Engelmann	H8-45
SK Johansen	T1-41
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LERF/200 Area ETF and WESF
Project Managers Meeting Minutes
825 Jadwin/Room 540S/700 Area
Richland, Washington

June 26, 2014

I. The April 24, 2014 Project Managers Meeting (PMM) minutes were approved. There were no PMMs held in May 2014.

II. Operational Status

A. Linda Petersen (CHPRC) provided the operational status for the months of April and May 2014. Ms. Petersen noted that the three tanker shipments received from AZ-301 were from tank farms, and the amount received should be corrected in the handout to read 18,086 gallons instead of 180,086 gallons.

Rick Bond (Ecology) noted that the LERF basin levels have gone up slightly since no water is being treated, and asked about the total capacity of the basins. Ed McCarthy (CHPRC) responded that with the current waste that is projected to be received, the basins will be full around May 2016 if no water is treated. Mr. Bond inquired about receipt of the heat exchanger for ETF. Mr. McCarthy stated that the request for proposal is being issued to the vendor this week for the heat exchanger, and it is anticipated that the vendor will be awarded the contract by the end of July 2014. The vendor has projected 36 weeks to fabricate the heat exchanger. Mr. Bond asked when the heat exchanger will be installed and ETF will become operational. Mr. McCarthy responded that removal of the old heat exchanger, which involves removing the roof and substantial metal piping, will take about eight months. Mr. McCarthy noted that when ETF was built, the evaporator was placed on the skid and the facility was built around the evaporator. Mr. Bond asked if the heat exchanger is different from the evaporator. Mr. McCarthy explained that the heat exchanger is a piece of equipment and is a key component of the evaporator process.

Mr. Bond noted that the Waste Treatment Plant (WTP) is planning to ship water to ETF for treatment in several years, and he was asked by Dan McDonald, the Ecology lead for the WTP, if there are any plans to do upgrades to ETF while work is being done to install the heat exchanger. Mr. McCarthy stated that at RL's direction, a discussion was held with tank farms to ensure the heat exchanger that is being procured will meet tank farms' future needs, and that tank farms indicated the heat exchanger will meet their future needs. Mr. Bond noted that the discussion was with tank farms, and that Mr. McDonald is associated with the WTP. Robert Long (RL) stated that tank farms and the WTP are tied together under the Office of River Protection (ORP), and tank farms was requested to concur via letter that the heat exchanger will meet their future needs. Mr. Long added that tank farms is projected to take over the ETF in June 2015, and any upgrades to ETF will fall under tank farms' purview. Mr. Long stated that the intent is to ensure that ETF transitions to tank farms in good condition. Mr. Bond stated that while the roof is removed from ETF, there may be an opportunity to do some upgrades and suggested talking to tank farms or the WTP group. Mr. Long responded that meetings are being held with ORP, and Mr. Bond's suggestion will be passed on during the next meeting. Mr. Long noted that if there is an opportunity for ORP to do any upgrades to ETF, they would need to be done without holding up RL's schedule.

Mr. Bond referred to the dry storage project for the cesium/strontium capsules at WESF, and asked if the modifications to the K-3 ventilation system have anything to do with dry storage.

Jennie Seaver (CHPRC) responded that there is a commitment to the Defense Nuclear Facility Safety Board to upgrade the ventilation, and the K-3 filter will be replaced with a smaller system. Ms. Seaver stated that the K-3 filter doesn't have anything to do with the treatment, storage, disposal (TSD) facility specifically, but the ventilation system needs to be upgraded by 2016. Rick Engelmann (CHPRC) added that one of the filters in the existing K-3 filter system got wet a few years ago, and if the capsules are removed, it is believed that the ventilation system may not be able to handle the changes in pressure. Mr. Engelmann explained that there are two ventilation systems in WESF. The K-1 system ventilates the relatively uncontaminated area, and the K-3 system ventilates the heavily contaminated area. Both systems exhaust through the same stack, which is a major stack. Mr. Engelmann stated that the intent is to stabilize the contamination and separate the two ventilation systems, resulting in two separate HEPA filter frames and two minor emission units. Ms. Seaver added that the ventilation upgrade is independent of the dry storage project, but the capsules cannot be moved to dry storage without the ventilation upgrade.

Mr. Bond noted the possibility that WESF would be closed in a couple years and whether it was practical to spend the money to upgrade the ventilation system. Mr. Engelmann responded that the filter system needs to be upgraded to move the capsules. Al Farabee (RL) stated that the upgrade is needed and committed to being done, and funding is available to start the upgrades. Mr. Bond noted that funding was requested to move the capsules to dry storage, and indications are that the funding will be received. Mr. Farabee stated that the plan is for CHPRC to be prepared to issue an RFP for dry storage at the start of FY15 if funding becomes available. Mr. Bond asked about the composition of the team working on the dry storage project. Mr. Engelmann stated that Mr. Farabee, Mr. Long, and several people from CHPRC will be working on the dry storage project. Mr. Farabee stated that Laura Cusack (Ecology) will be the lead for the regulatory path forward for dry storage, and Ms. Seaver will be working with Ms. Cusack.

LERF Basin Liquid Level, Inventory and Waste Received – April and May 2014

	Basin 42	**Basin 43**	**Basin 44**
Basin Liquid Level and Inventory on 6/1/2014	7.6 ft. ~1.65 Mgal	12.4 ft. ~3.18 Mgal	19.1 ft. ~6.08 Mgal
3 tanker shipments of AZ-301	18,086		
4 tanker shipments of MW burial trench #31 and trench #34 leachate			28,000 gallons
1 tanker shipment of 309 wastewater		7,000 gallons	
6 shipments of WSCF/100N drums		2,640 gallons	
8 tanker shipments of BP-5 perched water		~20,000 gallons	
ERDF transfers		~283, 720 gallons	

*The volumes in this table are estimated. Tanker shipment volumes are estimated by multiplying the number of shipments by the capacity of the tanker being used.

Effluent Treatment Facility treated ~ 0 Mgal of wastewater during April and May 2014.
200 Area Treated Effluent Disposal Facility (TEDF) received wastewater at an average flow of about 48 gpm during April and May 2014, based on TEDF Flow Totalizer information.

LERF/ETF/200 Area TEDF Activities:

- Treatment of wastewater is suspended due to heat exchanger issues.
- Engineering report assessing condition of the heat exchanger and recommendations have been reviewed by DOE-RL and direction provided to procure new heat exchanger. Procurement in progress. Approximately ten months for delivery after order.
- LERF basin cover cleaning activities are in progress (weather allowing).
- LERF basin cover inspections have revealed deficiencies in the covers in areas above the water level in the basins. Further inspections are under way as well as identifying plausible repair methods.
- Mitigation measures to deter birds from the LERF basins have shown positive results.

WESF Activities:

- Repair of G cell transfer cart is complete.
- Roof repair (application of non-slip walkway material) is complete.
- Repair of one of the facility's two supply fans has been completed and parts are on order for the second fan.
- Planning for stabilization of portions of the facility along with modifications to the K-3 ventilation system is in progress involving engineering, safety and regulatory documentation.

III. Status of Previous Agreements and Commitments

A. There were no previous agreements or commitments to status.

IV. New Agreements and Commitments

A. There were no new agreements or commitments identified for discussion.

V. Near Term Schedules and Ongoing Activities (Milestones, TSD Unit)

A. ST-4500, ST-4502 and ST-4511 Status

Stacy Nichols (Ecology) reported that the ST-4500 draft fact sheet and permit have been completed, and they have been reviewed by Ecology and RL/CHPRC. Ms. Nichols stated that the draft fact sheet and permit are in Ecology's peer review process, and any changes should be minor. Ms. Nichols indicated that once she incorporates the comments from the peer review, RL/CHPRC will have an opportunity to look at the changes before the permit goes out for public review and comment. Ms. Nichols stated that the goal is to send the ST-4500 permit out for the public comment period by the end of July 2014. Mr. Bond stated that the SEPA issue has been resolved, and a letter will be issued stating that the original SEPA does not need to be redone.

Ms. Nichols stated that there was no status to report on the ST-4511 and ST-4502 permits. Mr. Engelmann noted that the first discharge monitoring reports (DMRs) for the quarter were approved and signed. Mr. Bond inquired about the spike of nitrate that was observed about a year and a half ago. Ms. Petersen stated that no spikes have been observed since the one spike of nitrate, and a report update was provided at a previous PMM. Ms. Nichols stated that she had not heard of any more nitrate spikes.

B. LERF Basin Maintenance

Mr. McCarthy reported that a small amount of vegetation remains on the north edge of the basin 42 cover. Mr. McCarthy estimated there was about a two-foot by ten-foot channel of vegetation on the basin 42 cover that is beyond the reach of the cranes. Mr. McCarthy stated that the inspections on the covers for basin 42 and 43 are about 93 percent complete. The vendor for the covers is coming out to oversee and provide the quality assurance during the week of July 7, 2014. The inspectors will be placed in fall protection over the rail and use a camera to get a closer look. Mr. McCarthy added that if needed, engineering staff would provide another look at a specific area. Mr. Bond asked if the LERF control room is still being manned 24/7 since the

permit modification has been approved. Mr. McCarthy responded that the control room is being manned 24/7 until the compliance matrices are in place and the control procedures are changed. Mr. McCarthy noted that there are other activities that take priority, and the intent is to ensure everything is done correctly regarding changes to manning the control room.

Mr. Farabee noted that the activity of removing the mud from the LERF basin covers is a maintenance activity and it will never be complete. Mr. Farabee added that the permit requirement is less than ten percent coverage of liquid, and the intent is to maintain the level below the requirement. Mr. McCarthy stated that the Department of Health (DOH) air permit has a control requirement for quarterly inspections and removal of water that exceeds ten percent. Mr. McCarthy indicated that once the work on the basin covers is completed, the focus will turn to the maintenance program, which is the quarterly and annual inspections as required by the air permit.

C. Hanford Facility RCRA Permit Rev. 9 Update
Mr. Bond stated that there was no update to report on the Conceptual Agreement Packages (CAPs), and the CAP process is moving very slowly.

D. 8C/Class 2 Modifications
Mr. Bond stated that there was no activity to report associated with the Class 2 permit modifications.

E. ETF Heat Exchanger
Mr. Engelmann noted that there was a discussion on the heat exchanger (see operations report). Stephanie Johansen (CHPRC) reported that there was a meeting held earlier this month to discuss the heat exchanger and the LERF basin cover repairs. During that meeting, it was noted that the LERF basin cover repairs that are planned don't require a permit modification, and when the design package for the heat exchanger is received, an evaluation will be done to determine whether any permitting action is needed. Ms. Johansen stated that a copy of the presentation from the meeting regarding the LERF basin cover repairs and the heat exchanger will be attached to today's meeting minutes.

VI. Approved Changes Signed Off in Accordance with TPA Section 12.2

A. There were no approved changes identified for discussion.

VII. General Discussion

A. There were no topics for general discussion.

VIII. Actions

A. There were no actions to status.

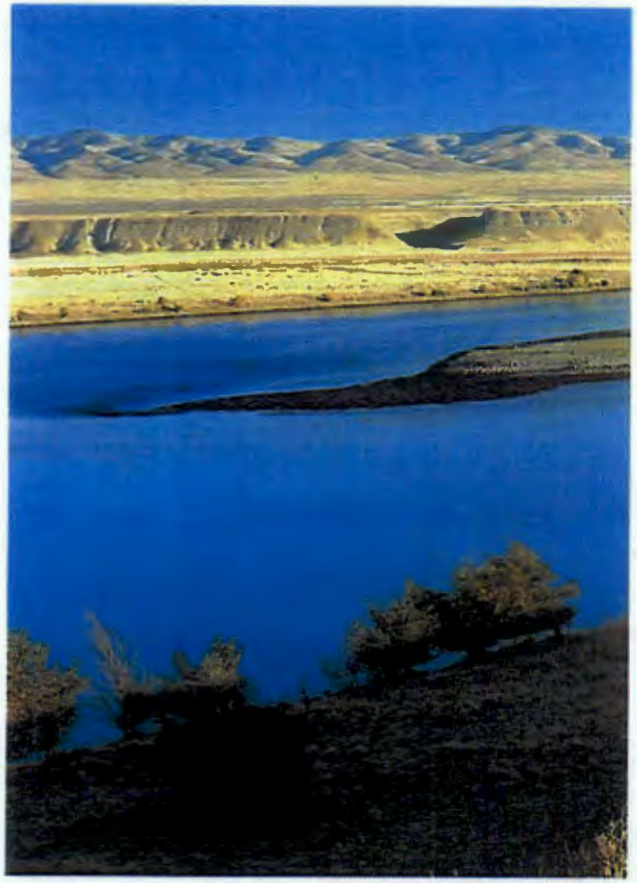
IX. Documents for Submittal to the Administrative Record

A. The April 24, 2014, PMM minutes were identified for submittal to the AR, and the presentations for the heat exchanger and the LERF basin covers will be attached to today's meeting minutes for submittal to the AR.

X. Next Project Managers Meeting

A. The next PMM was scheduled for July 24, 2014.

CH2MHILL
Plateau Remediation Company



Status Update for LERF Cover Repairs and ETF Heat Exchanger Replacement

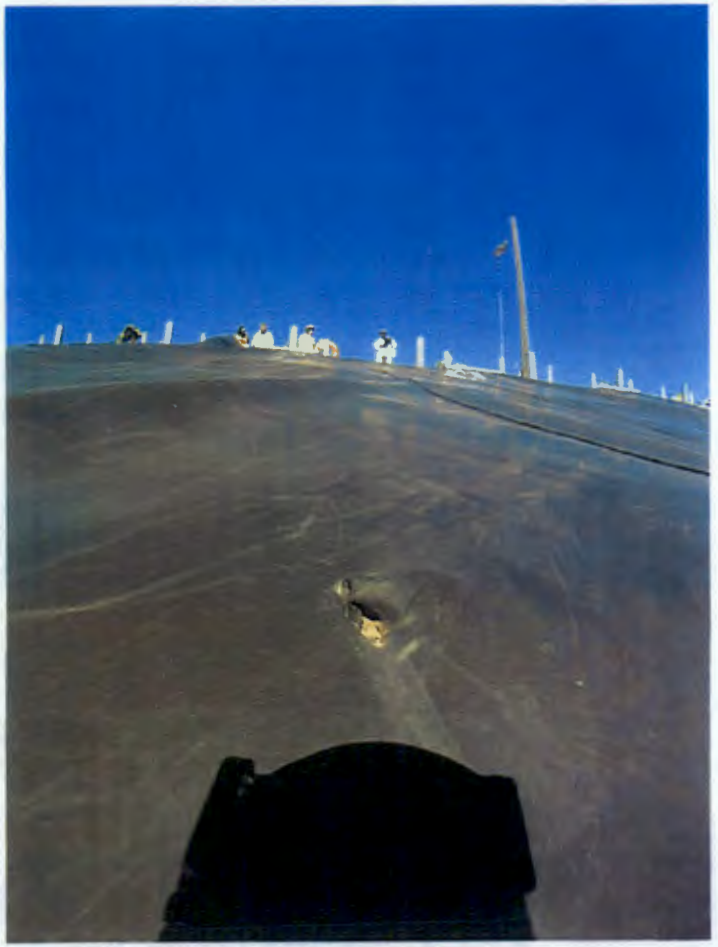
Presented to: Department of Ecology
June 5, 2014

Presented by: CH2M HILL Plateau Remediation Company

LERF Cover Background

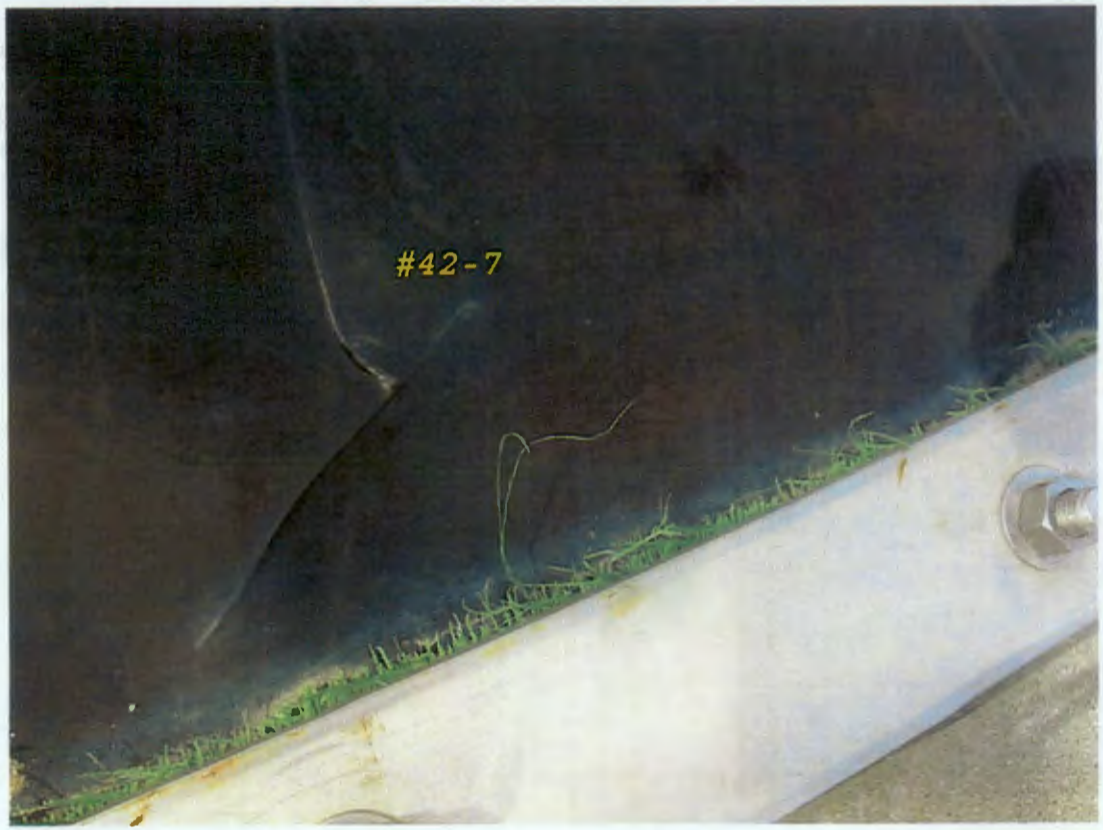
- Ecology was informed of possible LERF cover deficiencies on 04/10/14
- Investigation using a camera located on a remote tracker confirmed 9 deficiencies in Basin 42 and 1 deficiency in Basin 43
- All deficiencies are located above the current water levels in Basins 42 and 43
- Most deficiencies are on the scale of 3" to 5"
- Based on the location, timing, and type of deficiency, the cause was mechanical and likely a result of vegetation removal activities at the basins

Example of LERF Cover Deficiencies Basin 42



CH2MHILL
Plateau Remediation Company

Example of LERF Cover Deficiencies Basin 42



CH2MHILL
Plateau Remediation Company

Planned Near Term LERF Cover Activities

- Issue a Timely Order to prevent allowing the water level in the basins to exceed the level of the lowest deficiency
- Currently generating 3 work packages
  - Conduct Visual inspection
    - Some of the deficiencies have only been viewed via camera; this work package will allow for a closeup visual inspection
    - Inspection will be conducted by the vendor or by CHPRC engineering staff
  - Install patches
    - Patch material supplied by vendor
    - Patch material is similar to thick tape with sticky material on one side
    - Initial installation would be conducted by craft personnel under supervision of the vendor or CHPRC engineering
  - Sample cover material
    - Samples to be taken and analyzed to determine if the cover can sustain a patching technique that involves use of a heat weld
    - Samples to be taken from two sand bags on the basin perimeters that are composed of the same LERF basin cover material and have the same UV exposure as the covers.
    - Sandbags with samples taken will be replaced with new sandbags.

Long Term LERF Cover Approach

- Permanent repairs involving heat weld will only be implemented if the sample results are favorable.
  - If the heat weld patch is not practical, patching with the tape material will continue with regularly scheduled inspections for further applications, as necessary.
- Inspection requirements:
  - Table I.1 of Dangerous Waste Permit requires weekly inspections for cover integrity
  - FF-01 licenses also require quarterly inspections for cover damage
- Permit impact:
  - Permit does not address cover maintenance; RL and CHPRC believe patching is a routine maintenance activity that does not require any permitting action

ETF Heat Exchanger Path Forward

- ETF is currently not processing due to heat exchanger failure
- On 06/02/14, DOE-RL provided formal authorization for CHPRC to begin the process of purchasing a new heat exchanger
- Following placement of the order, it will take approximately 10 months for the new heat exchanger to be fabricated and delivered to the site.
- Direction for the removal of the damaged heat exchanger and restart of ETF has not yet been received.
- It has not been determined if any design changes are required to address corrective actions from crack in heat exchanger or to improve ease of installation.
- If changes are needed, DOE-RL and CHPRC will work with Ecology to determine the appropriate permitting approach

LERF/200 AREA, ETF, AND WESF
Project Managers Meeting
825 Jadwin / Room 340
Hanford, Washington

June 26, 2014

ATTENDANCE LIST

	Name	Organization	Phone Number
1.	Kathy Knox	Knox Court Reporting	946-5535
2.	Bob Long	RL	376-7754
3.	Stacy Nichols	Ecology	372-7917
4.	Rick Bond	Ecology	372-7885
5.	Julie Reddick	RL	376-2003
6.	Jodi Williams Jr.	CHPRC-EP	376-4746
7.	Brett M. Barnes	CHPRC-EP	521-3053
8.	Lorna Dittmer	CHPRC	376-7017
9.	Rick Engelmann	CHPRC	376-7485
10.	Jennie Spear	"	
11.	Stephanie Johansen	CHPRC	373-4031
12.	Edward McCarthy	CHPRC	373-0044
13.	P. Sharon Braibanti	CHPRC	373-9792
14.	Linda Petersen	CHPRC	373-4200
15.	AL Farabee	DOE	376-8089
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LERF/200 AREA ETF and WESF PROJECT MANAGERS MEETING
825 Jadwin / Room 340
Hanford, Washington
June 26, 2014

9:00 a.m. to 9:30 a.m.

Agenda

I. The April 24, 2014, PMM minutes are pending RL and Ecology representative approval. There were no subject PMMs held in May 2014.

II. Operational Status

III. Status of Previous Agreements and Commitments

IV. New Agreements and Commitments

V. Near Term Schedules and Ongoing Activities (Milestones, TSD Unit)
   A. ST-4500, ST-4502 and ST-4511status
   B. LERF Basin Maintenance
   C. HF RCRA Permit Rev. 9 Update
   D. 8C/Class 2 Mods
   E. ETF Heat Exchanger

VI. Approved Changes Signed Off in Accordance with TPA Section 12.2

VII. General Discussion

VIII. Actions

Unit	Description of Action	Status	Date

IX. Documents for Submittal to the Administrative Record

X. Next Project Managers Meeting

APRIL AND MAY 2014
WESF/ETF/LERF/200 AREA TEDF OPERATIONS REPORT
FOR THE JUNE 26, 2014 PMM

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