

**200 West Tank Farms Interim Measures Investigations
Status Report as of December 18, 2013**

BACKGROUND: On a monthly basis, DOE and Ecology representatives meet to discuss the documents, field work, and results of interim measures investigations being undertaken at the 241-TX, 241-SX, and 241-U Tank Farms. The scheduled December 2013 meeting conflicted with meeting participant holiday schedules. As a result, Ecology and DOE agreed that DOE would prepare a status report in lieu of holding the December 2013 meeting. The contents of this status report align with a typical monthly meeting agenda for the 200 West Tank Farms interim measures investigations.

DISCUSSION:

Prior Meeting Notes: The following documents have been entered into the TPA Administrative Record:

- 200 West Tank Farms Interim Measures Investigations October 2013 meeting notes,
- 200 West Tank Farms Interim Measures Investigations November 2013 status report,
- Selection of Next Four TX Farm Direct Push Locations October 24, 2013 meeting notes.

Status of Ongoing Field Work:

- **200 West Tank Farms:** The following characterization field work is being undertaken at the 200 West Tank Farms pursuant to the *200 West Area Tank Farms Interim Measures Work Plan (RPP-PLAN-53808, Rev. 1)*:
 - **SX Pore Water Extraction Test:** Test system operations continue. Well C8824 has performed as the extraction well since November 11, 2013. Water is being produced by the system, collected in the sump, and is being pumped to the surface. However; water production rates are well below expectations. Water production will be evaluated on Monday, December 16, and the vacuum on the extraction well may be increased. The system is currently operating at about -3.6 psi, and this may be increased to between -4 and -4.5 psi. A higher vacuum may increase pore water production rates.

Attempts to keep the well packers in the monitoring wells inflated have been discontinued. Steps taken to connect the two monitoring well packers to a dedicated packer inflation system were successfully completed, but the packers leak at too great a rate to be kept inflated for a reasonable period of time.

Development, demonstration, and evaluation of larger diameter push boreholes began in late November 2013. This portion of the pore water extraction test will help determine if a larger diameter borehole (approximately 3-7/8 inch outside diameter [OD] rather than the current approximately 2-1/2 inch OD) can be pushed to the depths needed to support pore water extraction. This portion of the test will also evaluate well construction using the larger annular space provided by the larger diameter boreholes. The larger diameter boreholes could provide the necessary annular space to (1) seal the upper annulus without the use of well packers; (2) allow a filter pack to be placed around the well screen, simplifying well development; and (3) grout the lower annulus more effectively by allowing the depth to grout to be measured during well construction.

- **TX Farm Direct Push and Sampling:** Activities on the work package continue during December for the next four direct push locations, which were agreed upon by WRPS, DOE, and Ecology. Surveying of locations has been completed, and field work is expected to start in early January 2014. Currently there is no available funding in fiscal year 2014 to perform beta probe testing; however, the locations in TX Farm will be evaluated for future testing if funding becomes available.
- **U Farm Surface Geophysical Exploration (SGE):** Data processing is complete. WRPS is reviewing a draft characterization report.
- **C Farm SGE:** Data processing is complete. Preparation of the characterization report has begun.

Laboratory Data Status:

- **SX Pore Water Extraction Test:** Quick-turn analyses have begun to be received (e.g., equipment rinsate).
- **TX Farm Direct Push:** A preliminary data package for the quick-turn results from the initial eight locations was received December 12, 2013 and is being reviewed.

Interim Surface Barrier Repair Status: Nothing new to report.

New Topics: Nothing to report.

NEXT MEETING: 10:00 am, January 15, 2014, Ecology Richland Office Conference Room #3A, Snake River.

ACTIONS:

Action Items. (2 pages)				
Item #	Topic/Title	Actionee	Description	Status
2013-08-21-3	Action from annual M-45-56 meeting	Hildebrand	Evaluate the potential for providing a single comprehensive report on the electrical resistivity correlation work to date.	WRPS is defining the scope of this activity to support the possible addition of this report as new work scope in FY 2014.
2013-08-21-9	Electrical resistivity presentation	Glaser	Provide presentation on electrical resistivity correlation work to date.	Closed. Presentation was given on November 20, 2013.
2013-08-21-9	Barrier effectiveness	Reassigned to Parker	(a) Provide Ecology with the barrier monitoring report after it has been issued; (b) Schedule a meeting on barrier effectiveness/ merits of barriers.	(a) Closed. RPP-RPT-55143, Rev. 1 has been provided to Ecology and is in the Administrative Record. (b) A meeting will be scheduled.