TX INTERIM MEASURE PLANNING – SOIL SAMPLE DEPTH
MEETING MINUTES
FISCAL YEAR 2014

This package contains summary notes from the following meetings:

- February 5, 2014, TX Sample Selection Meeting for Locations C8816 and C8818
- February 12, 2014, TX Sample Selection Meeting for Locations C8820 and C8822

Douglas Hildebrand		2-26-2014
DOE Project Manager (print)	DOE Project Manager (signature)	Date
Jeffery J Lyon		2-26-14
Ecology Project Manager (print)	Ecology Project Manager (signature)	Date

Key Words – 241-TX Tank Farm

Milestone – M-045-21

TSD – S-24

MEETING NOTES

TX Sample Selection Meeting for Locations C8816 and C8818

MEETING DATE: February 5, 2014

LOCATION: Washington River Protection Solutions, 2440 Stevens

ATTENDEES:

Chris Kemp (DOE-ORP)	Joe Caggiano (Ecology)
Les Fort (WRPS)	Dan Parker (WRPS)
Maria Skorska (Ecology)	Cindy Tabor (WRPS)
Becky Wiegman (WRPS)	Harold Sydnor (WRPS)
Penny Berlin (Energy Solutions)	

BACKGROUND: This meeting was part of the continuing effort to ensure communication between Ecology and DOE representatives regarding the field work associated with interim measures. Specifically RPP-PLAN-54376, *Sampling and Analysis Plan for Soil Samples in Support of Interim Measure Planning at the 241-TX Tank Farm* states that geophysical logging along with available quick turnaround analysis ("quick turn") of two mobile contaminants (^{99}Tc and nitrate) will be used to aid in determining sample depths" and that "after this information is obtained, meetings will be held with, or e-mails will be sent to, representatives from Washington River Protection Solutions (WRPS), Department of Energy Office of River Protection (DOE-ORP), Department of Energy Richland Operations Office (DOE-RL), and Washington State Department of Ecology (Ecology), to gain a consensus on sample depths."

The purpose of this meeting was to discuss and reach agreement on the intervals to be sampled at locations C8816 and C8818.

DISCUSSION: Cindy Tabor discussed the available data from the current TX Tank Farm field campaign and the additional information from the previous TX Tank Farm vadose zone field activities.

Sample depths were recommended where there were higher moisture peaks and finer grained material (based on Draft Gamma and Moisture Plots). Depths were also within the range of where previous vadose zone field activities showed detectable nitrate and technetium-99 concentrations (60 – 100 feet below ground surface [ft bgs]). Note: A depth of 85-87 ft bgs was recommended; however, Joe Caggiano indicated that he preferred the interval of 67-69 ft bgs as there was a high gross count peak associated with this interval. This interval was selected over the 85-87 ft bgs interval.

CONCLUSIONS: The following depths were unanimously agreed upon by the group participants:

Location	C8816	C8818
Sample Depths in ft bgs (Geologic Area[a])	68-70 (H2) 74.5-76.5 (H2) 105-107 (CCu)	59-61 (H2) 67-69 (H2) 103-105 (CCu)

[a]H2 = Hanford formation unit 2 and CCu = Cold Creek unit

Two sample intervals in the H2 and one deeper sample interval in the CCu were selected from Locations C8816 and C8818.

MEETING NOTES

TX Sample Selection Meeting for Locations C8820 and C8822

MEETING DATE: February 12, 2013

LOCATION: Washington River Protection Solutions, 2440 Stevens

ATTENDEES:

Joe Caggiano (Ecology)	Harold Sydnor (WRPS)
Mike Barnes (Ecology)	Becky Wiegman (WRPS)
Doug Hildebrand (DOE-ORP)	Les Fort (WRPS)
Cindy Tabor (WRPS)	Penny Berlin (Energy Solutions)

BACKGROUND: This meeting was part of the continuing effort to ensure communication between Ecology and DOE representatives regarding the field work associated with interim measures. Specifically RPP-PLAN-54376, *Sampling and Analysis Plan for Soil Samples in Support of Interim Measure Planning at the 241-TX Tank Farm* states that geophysical logging along with available quick turnaround analysis ("quick turn") of two mobile contaminants (^{99}Tc and nitrate) will be used to aid in determining sample depths" and that "after this information is obtained, meetings will be held with, or e-mails will be sent to, representatives from WRPS, DOE-ORP, DOE Richland Operations Office (DOE-RL), and Ecology, to gain a consensus on sample depths."

The purpose of this meeting was to discuss and reach agreement on the intervals to be sampled at locations C8820 and C8822.

DISCUSSION: Cindy Tabor provided a field status summary and discussed the available data from the current TX Tank Farm field campaign. Additionally, information from the previous TX Tank Farm vadose zone field activities was discussed.

Sample depths were recommended where there were higher moisture peaks and finer grained material (based on Draft Gamma and Moisture Plots). Depths were also selected in the areas where dry well logging showed higher cesium concentrations.

CONCLUSIONS: The following depths were unanimously agreed upon by the group participants:

Location	C8820	C8822
Sample Depths in ft bgs (Geologic Area[a])	53-55 (H2) 83-85 (H2) 100-102 (CCu)	50-52 (H2) 59-61 (H2) 101-103 (CCu) 107-109[b] (CCu)

[a]H2 = Hanford formation unit 2 and CCu = Cold Creek unit

[b]Joe Caggiano indicated that he was interested in sampling the deeper moisture peak interval; however, it was identified that this was at the bottom of the borehole and it may not be possible to achieve sample depth since refusal was met around this depth. It was agreed that an attempt would be made to collect a fourth sample interval at this location at 107-109 ft bgs.

Two sample intervals in the H2 and one deeper sample interval in the CCu were selected from Locations C8820 and C8822. As noted, an attempt will be made to collect an additional sample in the CCu at location C8822 at a depth of 107-109 ft bgs.