TX INTERIM MEASURE PLANNING
SOIL SAMPLE DEPTHS FOR C8800 AND C8804
MEETING MINUTES

MEETING DATE: October 3, 2013

LOCATION: Washington River Protection Solutions, 2440 Stevens

ATTENDEES:

R.D Hildebrand (DOE-ORP)	Les Fort (WRPS)
Susan Eberlein (WRPS)	Penny Berlin (Energy Solutions)
Maria Skorska (Ecology)	
Joe Caggiano (Ecology)	
Kent Reynolds (Energy Solutions)	
Harold Sydnor (WRPS)	
Cindy Tabor (WRPS)	

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 (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 C8800 and C8804.

DISCUSSION: Cindy Tabor discussed the status of TX Tank Farm field campaign: 6 of the locations have been pushed, logged, sampled, and decommissioned along with deep electrode placement. Two additional locations have been pushed, logged, and are being discussed in this meeting. Data from the current TX Tank Farm field campaign and the additional information from the previous TX Tank Farm vadose zone field activities were also discussed.

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The following is a summary of information from the current TX Tank Farm direct push effort that was provided:

Location (surface elevation ft amsl)	C8801/C8802 (672.49)		C8805/C8806 (672.79)		C8807/C8808 (672.46)		C8809/C8810 (672.8)		C8811/C8812 (676.5)		C8813/C8814 (671.5)	
Sample Depth ft bgs (center depth ft amsl)	51-53 (620.49)		56-58 (615.79)		53-55 (618.46)		60-62 (611.8)		54-56 (620.5)		56-58* (614.5)	
Nitrate µg/g	~9	ND	~12	~0.3	~9.5	ND	~10	ND	~11	ND	~7	ND
Tc-99 pCi/g												
Sample Depth ft bgs (center depth ft amsl)	59-61 (612.49)		85-87 (586.79)		84-86 (587.46)		87-89 (584.8)		70-72 (605.5)		70-72 (600.5)	
Nitrate µg/g	~9	ND	~9	~0.3	~8	~0.3	~23	~1	~8	ND	~5	ND
Tc-99 pCi/g												
Sample Depth ft bgs (center depth ft amsl)	101-103 (570.49)		101-103 (570.79)		105-107 (566.46)		102-104 (569.8)		103-105 (572.5)		92-94 (578.5)	
Nitrate µg/g	~46	ND	~25	ND	~14	~0.2	~4	~0.3	~152	~13	~16	ND
Tc-99 pCi/g												
Comment	-2 Intervals in H2 -1 Interval in Cold Creek Unit		-2 Intervals in H2 -1 Interval in Cold Creek Unit		-2 Intervals in H2 -1 Interval in Cold Creek Unit		-2 Intervals in H2 -1 Interval in Cold Creek Unit		-2 Intervals in H2 -1 Interval in Cold Creek Unit		-3 Intervals in H2	

Notes: Red #s = preliminary quick-turn analytical concentrations, NA = Not available. Final data will be released in a data package generated by the laboratory.
ft bgs = feet below ground surface, ft amsl = feet above mean sea level

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]).

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

Location	C8800	C8804
Sample Depths in ft bgs (Geologic Area[a])	53.5-55.5 71.5-73.5 98-100	77-79 90-92 98-100

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

Two sample intervals in the H2 formation and one sample interval in the CCu were selected from each of the three locations.

R Douglas Hildebrand	R D Hildebrand	10-16-2013
DOE Project Manager (print)	DOE Project Manager (signature)	Date
Jeffery J Lyon	[illegible]	11-04-13
Ecology Project Manager (print)	Ecology Project Manager (signature)	Date