MEETING NOTES
WMA S-SX Status Meeting – February 24, 2025

Location: Virtual Meeting via Microsoft Teams

Attendees:

Kristin Singleton (H2C)
Deanna Klages (H2C)
Scott Anderson (H2C)
Katie Roberts (H2C)
Marc Levitt (H2C)
Jackson Davis (Ecology)
Rebecca Blackwell (DOE)
Luissa Johnston (Ecology)
Eric Pierce (Ecology)
Cathrene Glick (Ecology)
Jonathan Rogers (Ecology)
Kim Schuyler (Freestone)
Ashley Roy (Freestone)

Background:
This meeting was part of the continuing effort to ensure communication between the Washington State Department of Ecology, the U.S. Department of Energy, and H2C representatives regarding the field work associated with RPP-PLAN-65977, *Phase 2 RCRA Facility Investigation/ Corrective Measures Study Work Plan for Waste Management Area S-SX*, Appendix D, *Sampling and Analysis Plan.*

Purpose of Meeting:
This meeting was called to provide status information of field progress since the last meeting held on January 7, 2025. Other topics of the meeting included the path forward on one sample depth interval at D0600 and surface sampling at D0610 (EP-2).

Discussion:
Kristin Singleton (H2C) began by discussing the overall purpose of the investigation, then presented a handout (Attachment 1) and provided a field status update:

Exposure Area 1:

- 7 of 10 shallow pushes have been sampled and decommissioned as of 2/20/2025.
- 1 of 5 deep pushes have been sampled and decommissioned as of 2/20/2025.

Exposure Area 2:

- 1 of 7 shallow pushes have been sampled and decommissioned as of 2/20/2025.

K. Singleton noted that deep sample location D0600 was successfully sampled except for the I003 soil sample (37 to 39 ft bgs). K. Singleton explained that sample collection was attempted at the planned sample depth on 1/19/2025 with 0% recovery and again at 39 to 41 ft bgs with 0% recovery. To collect a soil sample at 37 to 39 ft bgs, the field crew moved to the backup sampling location on 2/12/2025 and over-drove the interval 37-40 ft bgs with 0% recovery. The recommended path forward was to skip this sample depth (37 to 39 ft bgs) at the D0600 location. Re-pushing at D0600 was not recommended because after three failed attempts to collect a sample over this depth interval, it is unlikely a fourth attempt to collect this sample would be successful. K. Schuyler (Freestone) identified that that the few grams that stayed within the sampler appeared dry with very little silt, which is not favorable for material

compaction and successful recovery. K. Singleton asked if Ecology concurred that re-pushing D0600 to collect the I003 sample (37 to 39 ft bgs) was not necessary, due to lack of recovery. **Agreement:** Ecology agreed with the recommended path forward and that this occurrence will be recorded as a deviation.

K. Singleton transitioned into discussing surface sampling at D0610 (EP-2) by presenting a photo of the sampling location which is located on a paved surface. The recommended path forward was to skip collecting the surface sample at this location because it could potentially be non-representative. K. Schuyler noted that this location was not selected based on proximity to a known surface release. C. Glick asked where in WMA S-SX Study Area this sampling point is located. K. Singleton noted the location by displaying Figure D4-1 in RPP-PLAN-65977 (Attachment 2). C Glick proposed that since this sampling location isn't based off a release then a surface sample might as well be collected to check the radiation levels at the surface. **Agreement:** Collect a surface sample at D0610 (EP-2).

Rebecca Blackwell (DOE) provided an update that DOE's reviewing process of the work plan is complete, and Ecology should receive RPP-PLAN-65977 for their review by the end of the week.

K. Singleton concluded the meeting.

REBECCA BLACKWELL	Digitally signed by REBECCA BLACKWELL Date: 2025.04.21 13:48:07 -07'00'	
DOE Project Manager (print)	DOE Project Manager (signature)	Date
Elizabeth A. Rochette	Digitally signed by Rochette, Beth (ECY) Date: 2025.04.29 10:29:23 -07'00'	
Ecology Project Manager (print)	Ecology Project Manager (signature)	Date

Attachment 1

Handout

(5 pages including cover sheet)

WMA S-SX Sample Update Meeting
[02/24/2025]

Purpose of this Meeting:

- Field status summary
- Path forward on one sample depth at D0600
- Surface sample at D0610 (EP-2)

Background Information:

This characterization is being performed to collect samples for the WMA S-SX study area according to RPP-PLAN-65977, *Phase 2 RCRA Facility Investigation/ Corrective Measures Study Work Plan for Waste Management Area S-SX*, Appendix D, *Sampling and Analysis Plan.* RPP-PLAN-65977 identifies 39 sampling locations.

- **S-Farm (Exposure Area 1) – 15 sample locations**
    - At every sample location, one surface sample and two additional shallow samples will be collected. Three shallow samples will be collected at every sample location.
    - Five of the 15 locations, four deep samples will be collected down to a depth of ~150 ft bgs or refusal, with up to two additional samples based on geophysical logging.

- **SX-Farm (Exposure Area 2) – 17 sample locations**
    - Ten surface samples will be collected at the 10 locations outside of the interim surface barrier. Two shallow samples will be collected at every location.
    - Eight of the 17 locations, four deep samples will be collected down to a depth of ~150 ft bgs or refusal, with up to two additional samples based on geophysical logging.

- **East Polygon (Exposure Area 3) – 7 sample location**
    - At every sample location, one surface sample and two additional shallow samples will be collected. Three shallow samples will be collected at every sample location.
    - One of the 7 locations, four deep samples will be collected down to a depth of ~150 ft bgs or refusal, with up to two additional samples based on geophysical logging.

WMA S-SX Sample Update Meeting [02/24/2025]

Field Status Summary:

Sampling:

Exposure Area 1:

- 7 of 10 shallow pushes have been sampled and decommissioned as of 2/20/2025.
  - D0580
  - D0582
  - D0584
  - D0586
  - D0588
  - D0590
  - D0592

- 1 of 5 deep pushes have been sampled as decommissioned as of 2/20/2025.
  - D0578
  - D0600 (in progress)

Exposure Area 2:

- 1 of 7 shallow pushed have been sampled and decommissioned as of 2/20/2025.

Logging:

Table 1: Direct Push Logging Holes Information

Location	Proposed Depth*	Actual Depth*	Logged	Decommissioned
S-Farm (Exposure Area 1)				
D0577	~150	160	Complete 12/10/2024	Complete 1/14/25
D0599	~150	160	Complete 12/16/2024	Not Started
D0601	~150	--	--	--
D0603	~150	--	--	--
D0605	~150	--	--	--

-- = to be determined

*Information is in feet below ground surface (ft bgs).

General Notes on D0600:

The preplanned shallow sample depths are 4-6 ft, and 12-14 ft per the SAP. Shallow sample intervals were increased by 1 ft.

Four deep samples per location will be collected at lithologic changes and within targeted lithologic units: 1) (backfill/Hf2 contact, 2) bottom of Hf2, 3) Hf2/CCUz contact, 4) CCUz/CCUc). Up to two additional samples will be collected based on geophysical logging results.

Table 2. Sample Depths Selected for D0599/D0600
(Sample depths were selected during the 1/7/2025 sample depth meeting)

Sample Depth (ft bgs)	Reason	Stratigraphy
0-1	Preplanned surface sample	Backfill
3.5-6.5	Preplanned sample interval	
11.5-14.5	Preplanned sample interval	
37-39	Predetermined sample at backfill- Hf2 contact/ gross gamma and moisture peaks	
49-51*	Increase in gross gamma and natural potassium	Hf2
115-117	Predetermined sample at bottom of the Hf2/ moisture peak	
125-127	Predetermined sample at the Hf2-CCUz contact/ gross gamma and moisture peaks	CCUz
138-140*	Gross gamma and moisture peaks	
156-158	Predetermined sample at the CCUz-CCUc contact	CCUc

Backfill = 0-38; Hf2 = 38-126; CCUz=126-157; CCU_C= 157- total depth
*Additional sampling interval based on geophysical logging results.

bgs = below ground surface
Hf2 = Hanford formation unit 2
CCUz = Cold Creek unit silt
CCUc = Cold Creek unit caliche

Table 3. D0600 Sampling Status

Sample Depth (ft bgs)	1st - Primary Sampling Location	2nd - Backup Sampling Location
SF (0-1)	Sample Collected	--
I001 (3.5-6.5)	Sample Collected	--
I002 (11.5-14.5)	Sample Collected	--
I003 (37-39)	**Attempted 37-39 (1/19/2025)** **Attempted 39-41~~41-43~~* (1/19/2025)**	**Attempted 37-~~39~~ 40* (2/12/2025)**
I004 (49-51)	Sample Collected	--
I005 (115-117)	Sample Collected	--
I006 (125-127)	Sample Collected	--
I007 (138-140)	Sample Collected	--
I008 (156-158)	Sample Collected	--

bgs = below ground surface
***These values were corrected after the meeting.**

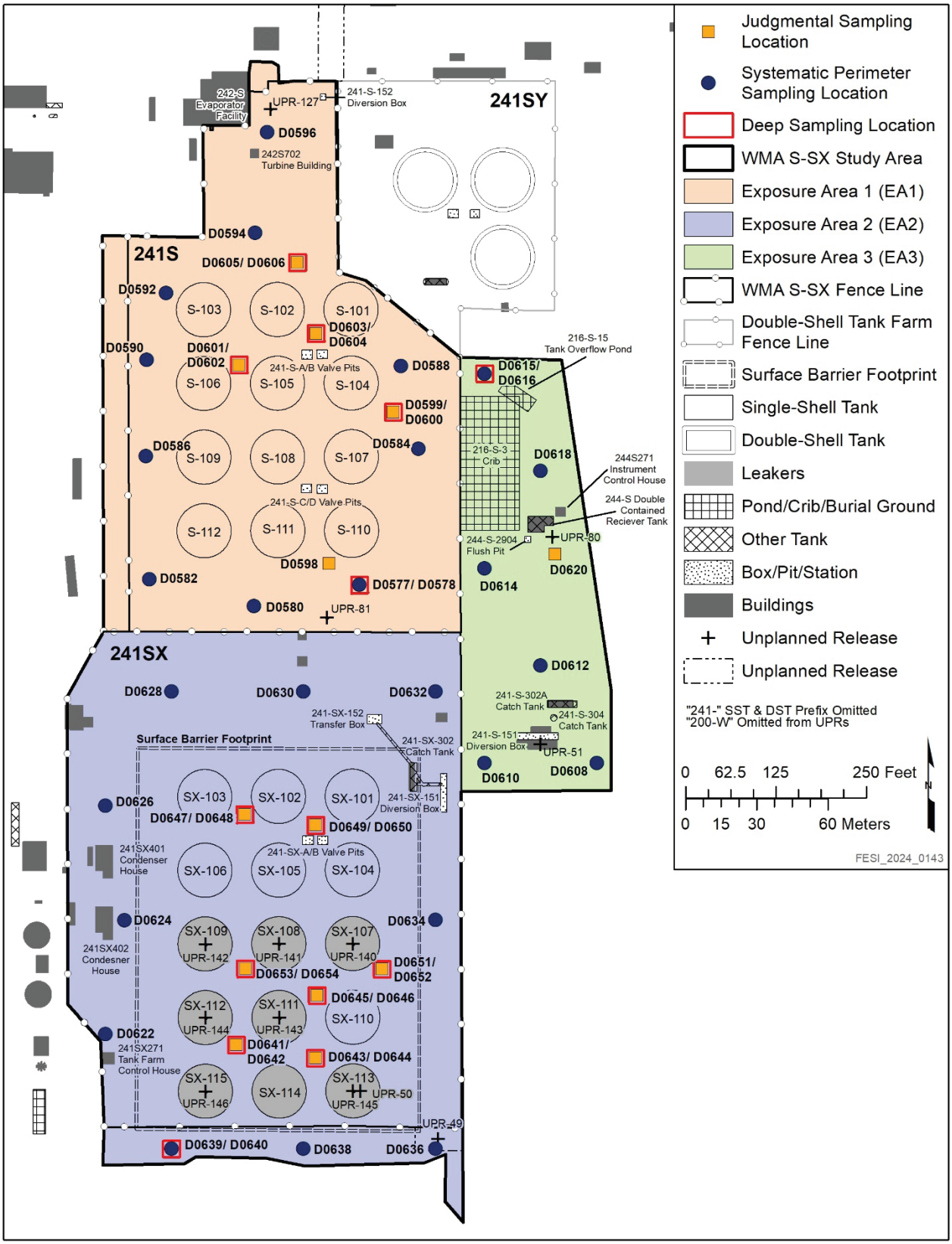
Surface sample at D0610 (EP-2):

Paved road at location D0610 (EP-2) makes collecting a surface sample potentially non-representative. Recommend not collecting a surface sample at this location.

Attachment 2

Figure D4-1. "Characterization Locations and Exposure Areas within the Waste Management Area S-SX Study Area."

(2 pages including cover sheet)



Source: RPP-PLAN-65977, Rev. 0, *Phase 2 RCRA Facility Investigation/Corrective Measures Study Work Plan for Waste Management Area S-SX*