MEETING NOTES
WMA S-SX Sample Interval Selection Meeting – D0646 and D0652

Meeting Date: January 12, 2026

Location: Virtual Meeting via Microsoft Teams

Attendees:

Marc Levitt (H2C)
Deanna Klages (H2C)
Kristin Singleton (H2C)
Patrick Jaynes (H2C)
Richard Mahood (H2C)
Chris Cearlock (H2C)
Rebecca Blackwell (HFO)
Amie Green (Ecology)
Noe'l Smith-Jackson (Ecology)
Jackson Davis (Ecology)
Cathrene Glick (Ecology)
George Peck (Ecology)
Johnathan Rogers (Ecology)
Kim Schuyler (Freestone)
Ashley Roy (Freestone)

Background:
This meeting was part of the continuing effort to ensure communication between representatives of the Washington State Department of Ecology (Ecology), the U.S. Department of Energy, Hanford Field Office (HFO), and Hanford Tank Waste Operations & Closure (H2C) 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 field status information, review geophysical logging data results from direct pushes D0645 and D0651, and to select judgmental sampling depths for direct pushes D0646 and D0652. D0645 is located southwest of Tank 241-SX-107 and D0651 is located southeast of Tank 241-SX-107.

Discussion:
Kristin Singleton (H2C) presented the agenda (Attachment 1) and provided an updated map of the planned and actual field locations for all locations at SX Farm (Attachment 2), then gave a field status update:

<u>SX Farm (Exposure Area 2):</u>

- Shallow sampling has not begun.
- Sampling is in progress at D0640.
- Logging has been completed for 3 of 8 deep pushes as of 12/30/2025.
- Refusal was met at D0647 and there are no other cleared viable locations.

K. Singleton mentioned that due to a miscommunication the field, the sample interval from 111 to 113 ft below ground surface (bgs) at D0640 was missed. Once the field crew realized that the sampling interval was missed, they stopped at 115 ft bgs and informed H2C that they were waiting for a path forward. The

purpose of sampling from 111 to 113 ft bgs was to fulfil the prescribed sampling interval within the lower Hf2, as identified in the SAP (Appendix D of RPP-PLAN-65977). K. Singleton proposed collecting a sample from 115 to 117 ft bgs to fulfil the SAP requirement. Cathrene Glick (Ecology) agreed that 115 to 117 ft bgs would be an acceptable replacement depth for 111 to 113 ft bgs, since it has similar gross gamma, moisture, and natural thorium signatures as 111 to 113 ft bgs. Mark Levitt (H2C) stated that the field crew will be informed to proceed with sampling and to collect a sample from 115 to 117 ft bgs.

K. Singleton reported that borehole D0647 encountered refusal at approximately 16 ft bgs due to contact with subsurface infrastructure. Drilling operations were halted immediately to prevent any potential damage to the structure, and the field crew awaited further direction. K. Singleton stated that a second cleared location was subsequently re-evaluated; however, it was determined to be non-viable. Due to the extent of subsurface infrastructure interference in the area, completing geophysical logging or sampling at D0647 to meet the requirements of the SAP would not be feasible. Jackson Davis (Ecology) requested clarification on H2C's proposed path forward. Chris Cearlock (H2C) indicated that, since the SAP has not yet been finalized, language can be incorporated to document that D0647 was a proposed location but that significant subsurface infrastructure interference prevented geophysical logging and sampling activities from being completed.

C. Glick asked if a location north of Tanks 241-SX-102 and 241-SX-103 could be cleared to achieve the same purpose. C. Cearlock stated that the rationale for sampling at this location, which is noted in Appendix B of the work plan (RPP-PLAN-65977), was to investigate a leak at the Tank 241-SX-102 transfer valve, which released approximately 4,000 gals of radioactive waste to the ground in 1965. Fortunately, the contaminated soil was removed in 1972, but sampling near the release site would've informed if the contamination migrated deeper into the vadose zone soil. C. Cearlock further explained that there are no high resistivity zones in the northwest quadrant above Tanks 241-SX-102 and 241-SX-103, so he would not recommend sampling there.

M. Levitt suggested that since the budget allows for 6 to 8 samples at this location, they could be used at the remaining deep sampling locations if any targets of interest are identified on the geophysical logs. This way the samples can be salvaged to better define another area. C. Glick remarked on the advantage of collecting additional samples at the remaining deep locations. M. Levitt reiterated that since there is no work around for the subsurface infrastructure at this location, seizing an opportunity to benefit from additional sampling is the best outcome. J. Davis concurred that this should be seen as an opportunity to collect focused sampling intervals at the remaining deep locations. C. Cearlock requested confirmation that Ecology concurred with updating the SAP (Appendix D of RPP-PLAN-65977) with language identifying that the D0647/D0648 location could not be logged or sampled due to extensive subsurface infrastructure. Amie Green (Ecology) concurred.

Sample Selection at D0646:

K. Singleton provided the reasons for deep sample collection at D0646:

- Determine if contamination in vadose zone soil is present in the WMA S-SX study area.
- Investigate UPR-200-W-49 (contamination between Tanks 241-SX-111 and 241-SX-113) and a plugged line and pipeline leak.

K. Singleton presented geophysical logging data from D0645, which included a zone of cesium-137 contamination that saturated the detector, along with an updated log depicting data collected using a different instrument to capture the peak activity (Attachment 3). Each geophysical log includes the proposed sample depths for D0646. Logging data included moisture (blue line), gross gamma (dark red line), temperature (bright red), cesium-137, and natural background radionuclide results for potassium, uranium, and thorium. The preplanned shallow sample depths are 4-6 ft and 12-14 ft per the SAP (RPP-PLAN-65977, Appendix D). Shallow sample intervals were increased by 1 ft, resulting in a sample depth interval of 3 ft. Over-driving the sampling tool helps to recover more sample material. Per RPP-PLAN-65977, Appendix D, four deep samples per deep location were planned to 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). K. Singleton noted that the CCUc was not encountered at this location so the CCUz/CCUc lithologic unit contact cannot be collected at this location. Up to two additional samples will be collected based on geophysical logging results.

The recommended sample intervals and rationale (identified in Table 2 of Attachment 1[1]) were provided.

K. Singleton opened the discussion with the meeting attendees on whether any changes to the proposed sampling intervals are needed.

- C. Glick stated that from a geologist's perspective a fine-grained unit could be concentrating the contamination seen in the zone of detector saturation. C. Glick proposed adding an extra sample from 60 to 62 ft bgs to capture the secondary cesium-137 peak on the standard log, the peaks in natural thorium and potassium, and to clarify the stratigraphy that that depth. All concurred with the addition of this sampling interval.

- K. Singleton added that H2C communicated with the 222-S and GEL laboratories to determine if they can receive and analyze the samples with high cesium-137 contamination. The laboratories said they could process the samples but there may be additional considerations for transportation due to the actual level of contamination present in the sample. If the sample exceeds levels safe for transportation, the 222-S laboratory will analyze the sample.

- K. Schuyler (Freestone) noted that there are a few analyses 222-S cannot perform, such as pesticides and 8270 SIM. M. Levitt asked if there are additional analysis that GEL performs that 222-S does not. K. Singleton claimed that 222-S Laboratory is unable to perform Method 1668 (PCBs) and other organic analyses. Noe'l Smith-Jackson (Ecology) asked why 222-S is unable to perform organic analyses when it's listed in their accreditation. **ACTION: K. Singleton to follow up with the 222-S laboratory and report back with their capability to perform organic analyses.**

K. Singleton asked if the meeting attendees agreed on all the proposed sample depths. All concurred.

[1] An email providing clarification that a surface sample is not required at D0646 was sent to Ecology on January 14, 2026. A copy of this email is included in Attachment 5.

Table 1. Sample Depths Selected for D0645/D0646

Judgmental		Stratigraphy
Recommended Sample Depth (ft bgs)	**Reason**	
3.5-6.5	Preplanned sample interval	Backfill
11.5-14.5	Preplanned sample interval	
54-56	Predetermined sample at backfill/Hf2 contact	
58-60*	Gross gamma peak	Hf2
60-62*	Gross gamma peak	
89-91*	Gross gamma peak	
130-132	Predetermined sample at bottom of the Hf2	
138-140	Predetermined sample at the Hf2/CCUz contact	CCUz

Note 1: The SAP outlines four predetermined samples per sampling location that will be collected at lithologic changes and within targeted lithologic units (backfill/Hf2 contact, bottom of Hf2, Hf2/CCUz contact, and the CCUz/CCUc contact). The CCUc is not identified on the log, so the CCUz/CCUc lithologic unit contact cannot be collected at this location.
Note 2: Table 2 in Attachment 1 identified that a surface sample would be collected at this location; however, per the SAP (Appendix D of RPP-PLAN-65977), a surface sample is not required because D0646 is located within the interim barrier footprint.

* Additional sampling interval based on geophysical logging results

Backfill = 0-55; Hf2 = 55-138; CCUz=138- total depth

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

Sample Selection at D0652:

K. Singleton provided the reasons for deep sample collection at D0652:

- Determine if contamination in vadose zone soil is present in the WMA S-SX study area.
- Investigate UPR-200-W-140 (Tank 241-SX-107 Waste Loss Event) and water leak found in slurry line (SL-126).
- Supplement existing information from C7192 sampling between 100 and 142 ft bgs.

K. Singleton displayed the geophysical logging data from D0651 with the proposed sample depths for D0652 (Attachment 4).

The recommended sample intervals and rationale (identified in Table 3 of Attachment 1[2]) were provided.

K. Singleton opened the discussion with the meeting attendees on whether any changes to the proposed sampling intervals are needed.

[2] An email providing clarification that a surface samples are not required at D0652 was sent to Ecology on January 14, 2026. A copy of this email is included in Attachment 5.

- C. Glick proposed adding a sampling interval from 34 to 36 ft bgs to capture the increase in moisture and gross gamma, as well as an uptick in natural uranium and thorium. Additionally, C. Glick mentioned that since this interval is in the backfill the results can be correlated with drywell geophysical logging data.

K. Singleton asked if the meeting attendees agreed on all the proposed sample depths. All concurred.

Table 2: Sample Depths Selected for D0651/D0652

Judgmental		Stratigraphy
Recommended Sample Depth (ft bgs)	**Reason**	
3.5-6.5	Preplanned sample interval	Backfill
11.5-14.5	Preplanned sample interval	
34-36*	Increase in moisture and gross gamma	
54-56	Predetermined sample at backfill/Hf2 contact	
62-64*	Moisture peak and increase in gross gamma	Hf2
101-103	Predetermined sample at bottom of the Hf2	
133-135	Predetermined sample at the Hf2/CCUz contact	CCUz
158-160	Predetermined sample at the CCUz/CCUc contact	CCUc

Note 1: The SAP outlines four predetermined samples per sampling location that will be collected at lithologic changes and within targeted lithologic units (backfill/Hf2 contact, bottom of Hf2, Hf2/CCUz contact, and the CCUz/CCUc contact).
Note 2: Table 3 in Attachment 1 identified that a surface sample would be collected at this location; however, per the SAP (Appendix D of RPP-PLAN-65977), a surface sample is not required because D0652 is located within the interim barrier footprint.

* Additional sampling interval based on geophysical logging results

Backfill = 0-55; Hf2 = 55-124; CCUz=124-158; CCUc= 158-total depth

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

REBECCA BLACKWELL Digitally signed by REBECCA BLACKWELL
Date: 2026.04.29 08:54:40 -07'00'

DOE Project Manager (print) | DOE Project Manager (signature) | Date

Digitally signed by amgr461@ecy.wa.gov
Date: 2026.05.07 06:47:32 -07'00'

Ecology Project Manager (print) | Ecology Project Manager (signature) | Date

Attachment 1

Agenda

(5 pages including cover sheet)

WMA S-SX Sample Depth Meeting [D0645/D0646 and D0651/D0652] [1/12/2026]

Purpose of this Meeting:

- Field status summary
- Select judgmental sampling depths for D0646
- Select judgmental sampling depths for D0652

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 from 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 Depth Meeting
[D0645/D0646 and D0651/D0652]
[1/12/2026]

Field Status Summary:

Sampling:

SX Farm (Exposure Area 2):

- Shallow: Not started.
- Deep: In progress
  - D0640 in progress.

Logging:

Table 1: Direct Push Logging Holes Information

Location	Proposed Depth*	Actual Depth*	Logged	Decommissioned
SX-Farm (Exposure Area 2)				
D0639	~150	158	Complete 11/18/2025	Not Started
D0641	~150	--	--	--
D0643	~150	155	--	--
D0645	~150	159	Complete 11/24/25	Not Started
D0647	~150	Refusal	--	--
D0649	~150	160	In progress	--
D0651	~150	159.5	Complete 12/30/25	--
D0653	~150	--	--	--

-- = to be determined

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

General Notes:

The preplanned shallow sample depths are 0-1 ft, 4-6 ft, and 12-14 ft per the SAP. Shallow sample intervals were increased by 1 ft. Rationale will be discussed during sample depth interval discussion for D0640.

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.

WMA S-SX Sample Depth Meeting [D0645/D0646 and D0651/D0652] [1/12/2026]

SELECTION OF SAMPLING DEPTHS FOR D0646

Information Evaluated to Help Determine Possible Sample Depths at D0646:

- Geophysical logging data from D0645. Data includes gross gamma, moisture, spectral gamma, temperature and cesium-137 concentrations.

Reason for Deep Sampling:

- Determine if contamination in vadose zone soil is present in the Waste Management Area (WMA) S-SX study area.
- Investigate UPR-200-W-49 and Plugged Line and Pipeline Leak.

Table 2: Sample Depth Recommendations for D0645/D0646

Judgmental		Stratigraphy
Recommended Sample Depth (ft bgs)	Reason	
0-1	Preplanned surface sample	Backfill
3.5-6.5	Preplanned sample interval	
11.5-14.5	Preplanned sample interval	
54-56	Predetermined sample at backfill- Hf2 contact	
58-60*	Gross gamma peak	Hf2
89-91*	Gross gamma peak	
130-132	Predetermined sample at bottom of the Hf2	
138-140	Predetermined sample at the Hf2-CCUz contact	CCUz

Note: The SAP outlines four predetermined samples per sampling location that will be collected at lithologic changes and within targeted lithologic units (backfill/Hf2 contact, bottom of Hf2, Hf2/CCUz contact, and the CCUz/CCUc contact). The CCUc is not identified on the log.

* Additional sampling interval based on geophysical logging results

Backfill = 0-55; H2 = 55-138; CCUz=138- total depth

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

WMA S-SX Sample Depth Meeting [D0645/D0646 and D0651/D0652] [1/12/2026]

SELECTION OF SAMPLING DEPTHS FOR D0652

Information Evaluated to Help Determine Possible Sample Depths at D0652:

- Geophysical logging data from D0651. Data includes gross gamma, moisture, spectral gamma, temperature and cesium-137 concentrations.

Reason for Deep Sampling:

- Determine if contamination in vadose zone soil is present in the Waste Management Area (WMA) S-SX study area.
- Investigate UPR-200-W-140 (Tank 241-SX-107 Waste Loss Event) and Water Leak Found in Slurry Line (SL-126) and supplement existing information from C7192 sampling between 100 and 142 ft bgs.

Table 3: Sample Depth Recommendations for D0651/D0652

Judgmental		Stratigraphy
Recommended Sample Depth (ft bgs)	Reason	
0-1	Preplanned surface sample	Backfill
3.5-6.5	Preplanned sample interval	
11.5-14.5	Preplanned sample interval	
54-56	Predetermined sample at backfill- Hf2 contact/	
62-64*	Moisture peak and increase in gross gamma	Hf2
101-103	Predetermined sample at bottom of the Hf2	
133-135	Predetermined sample at the Hf2-CCUz contact	CCUz
158-160	Predetermined sample at the CCUz-CCUc contact	CCUc

Note: The SAP outlines four predetermined samples per sampling location that will be collected at lithologic changes and within targeted lithologic units (backfill/Hf2 contact, bottom of Hf2, Hf2/CCUz contact, and the CCUz/CCUc contact).

* Additional sampling interval based on geophysical logging results

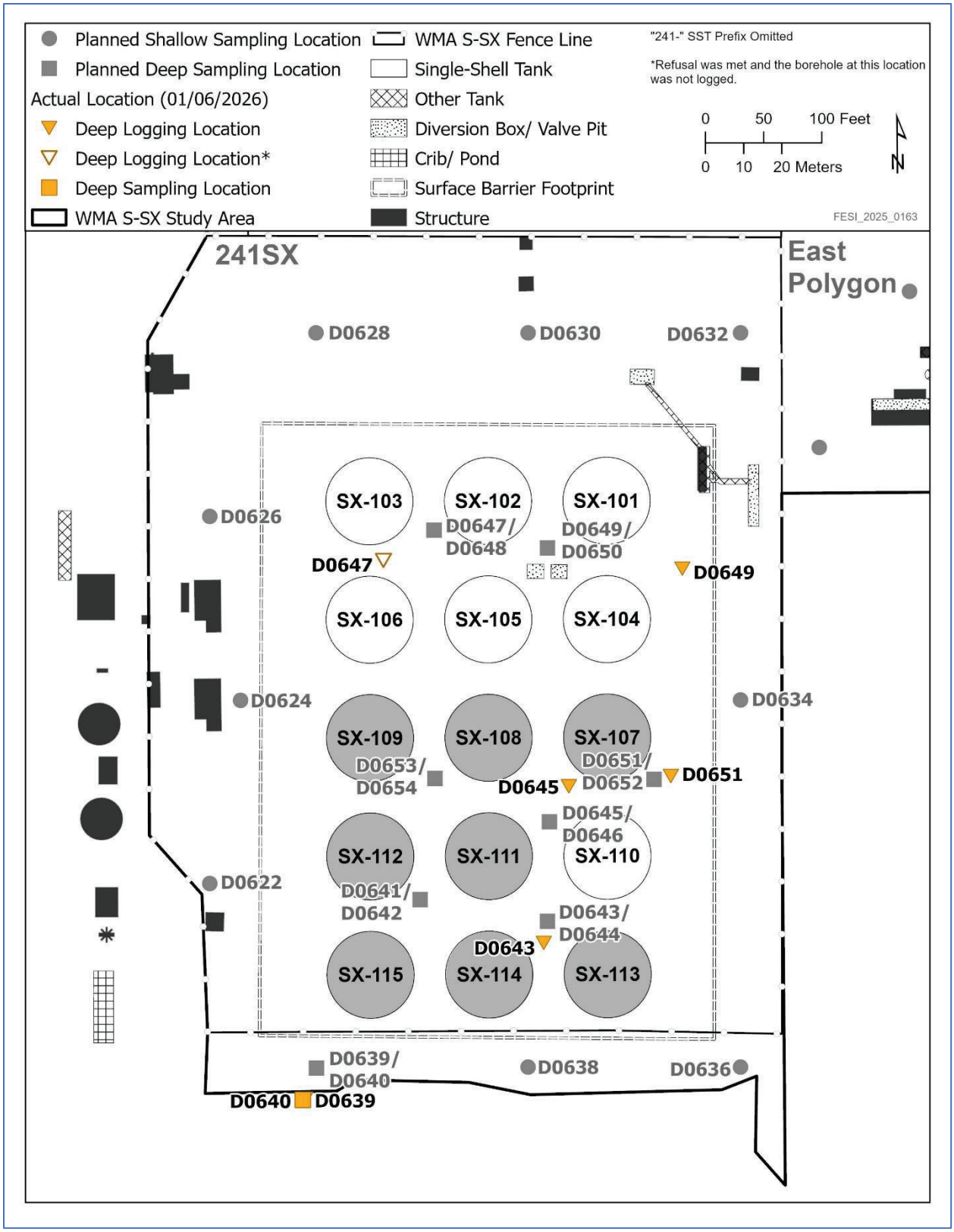
Backfill = 0-55; H2 = 55-124; CCUz=124-158; CCUc= 158- total depth

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

Attachment 2

Map of Planned and Actual Field Locations within the 241-SX Tank Farm

(2 pages including cover sheet)


Planned Shallow Sampling Location
Planned Deep Sampling Location
Actual Location (01/06/2026)
Deep Logging Location
Deep Logging Location*
Deep Sampling Location
WMA S-SX Study Area
WMA S-SX Fence Line
Single-Shell Tank
Other Tank
Diversion Box/ Valve Pit
Crib/ Pond
Surface Barrier Footprint
Structure
"241-" SST Prefix Omitted
*Refusal was met and the borehole at this location was not logged.
0 50 100 Feet
0 10 20 Meters
N
FESI_2025_0163
241SX
East Polygon
D0628
D0630
D0632
D0626
D0624
D0622
D0634
D0636
D0638
D0640
D0639
D0639/ D0640
SX-103
SX-102
SX-101
SX-106
SX-105
SX-104
SX-109
SX-108
SX-107
SX-112
SX-111
SX-110
SX-115
SX-114
SX-113
D0647/ D0648
D0649/ D0650
D0647
D0649
D0653/ D0654
D0651/ D0652
D0645
D0651
D0645/ D0646
D0641/ D0642
D0643/ D0644
D0643

Attachment 3

Draft Geophysical Logs for 241-SX Farm Location D0645

(4 pages including cover sheet)

ITDC-PRES-26-0140

Spectral Gamma and Moisture Survey

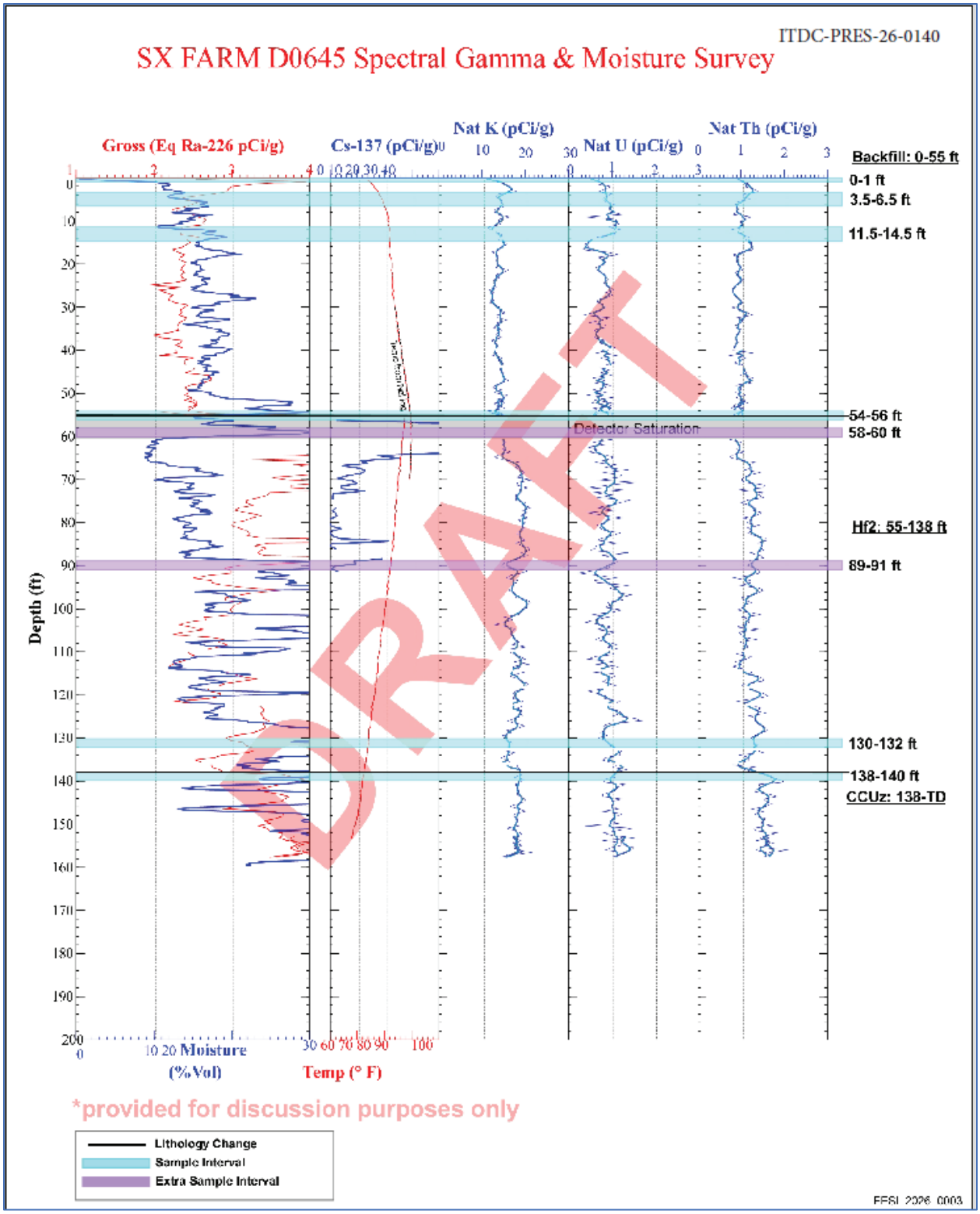
WMA S-SX D0645

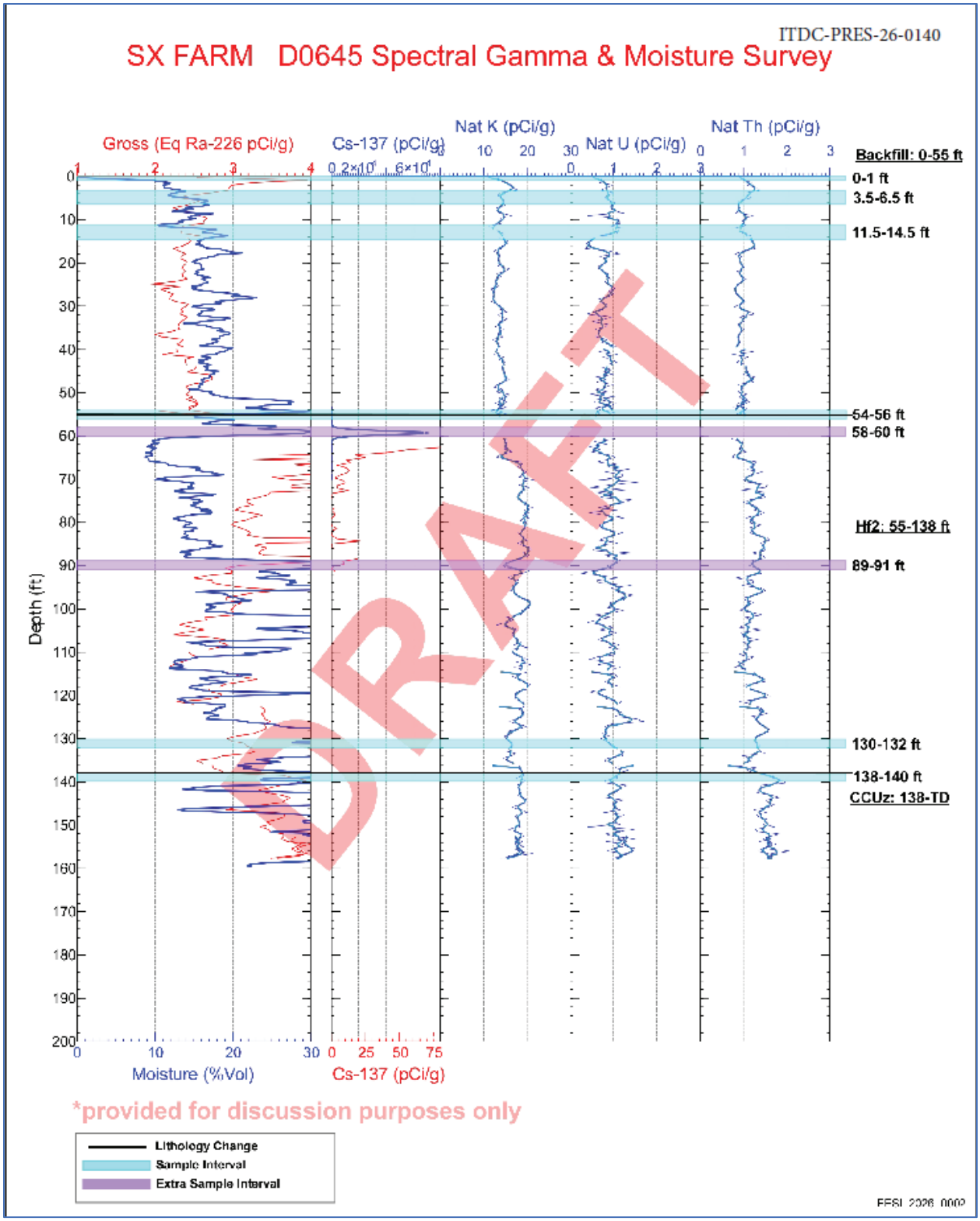
The attached draft geophysical logging data is associated with WMA S-SX direct push sampling and RPP-PLAN-65977, *Phase 2 RCRA Facility Investigation/ Corrective Measures Study Work Plan for Waste Management Area S-SX*.

The draft spectral gamma and moisture survey data for D0645 is for discussion purposes only. The final geophysical logging data can be found in the associated completion report following this direct push sampling effort.

DRAFT

Approved for Public Release;
Further Dissemination Unlimited


ITDC-PRES-26-0140
SX FARM D0645 Spectral Gamma & Moisture Survey
Gross (Eq Ra-226 pCi/g)
Cs-137 (pCi/g)
Nat K (pCi/g)
Nat U (pCi/g)
Nat Th (pCi/g)
Depth (ft)
Moisture (%Vol)
Temp (° F)
Backfill: 0-55 ft
0-1 ft
3.5-6.5 ft
11.5-14.5 ft
54-56 ft
Detector Saturation
58-60 ft
Hf2: 55-138 ft
89-91 ft
130-132 ft
138-140 ft
CCUz: 138-TD
DRAFT
*provided for discussion purposes only
Lithology Change
Sample Interval
Extra Sample Interval


ITDC-PRES-26-0140
SX FARM D0645 Spectral Gamma & Moisture Survey
Gross (Eq Ra-226 pCi/g)
Cs-137 (pCi/g)
Nat K (pCi/g)
Nat U (pCi/g)
Nat Th (pCi/g)
Depth (ft)
Moisture (%Vol)
Cs-137 (pCi/g)
Backfill: 0-55 ft
0-1 ft
3.5-6.5 ft
11.5-14.5 ft
54-56 ft
58-60 ft
Hf2: 55-138 ft
89-91 ft
130-132 ft
138-140 ft
CCUz: 138-TD
DRAFT
*provided for discussion purposes only
Lithology Change
Sample Interval
Extra Sample Interval

Attachment 4

Draft Geophysical Log for 241-SX Farm Location D0651

(3 pages including cover sheet)

ITDC-PRES-26-0137

Spectral Gamma and Moisture Survey

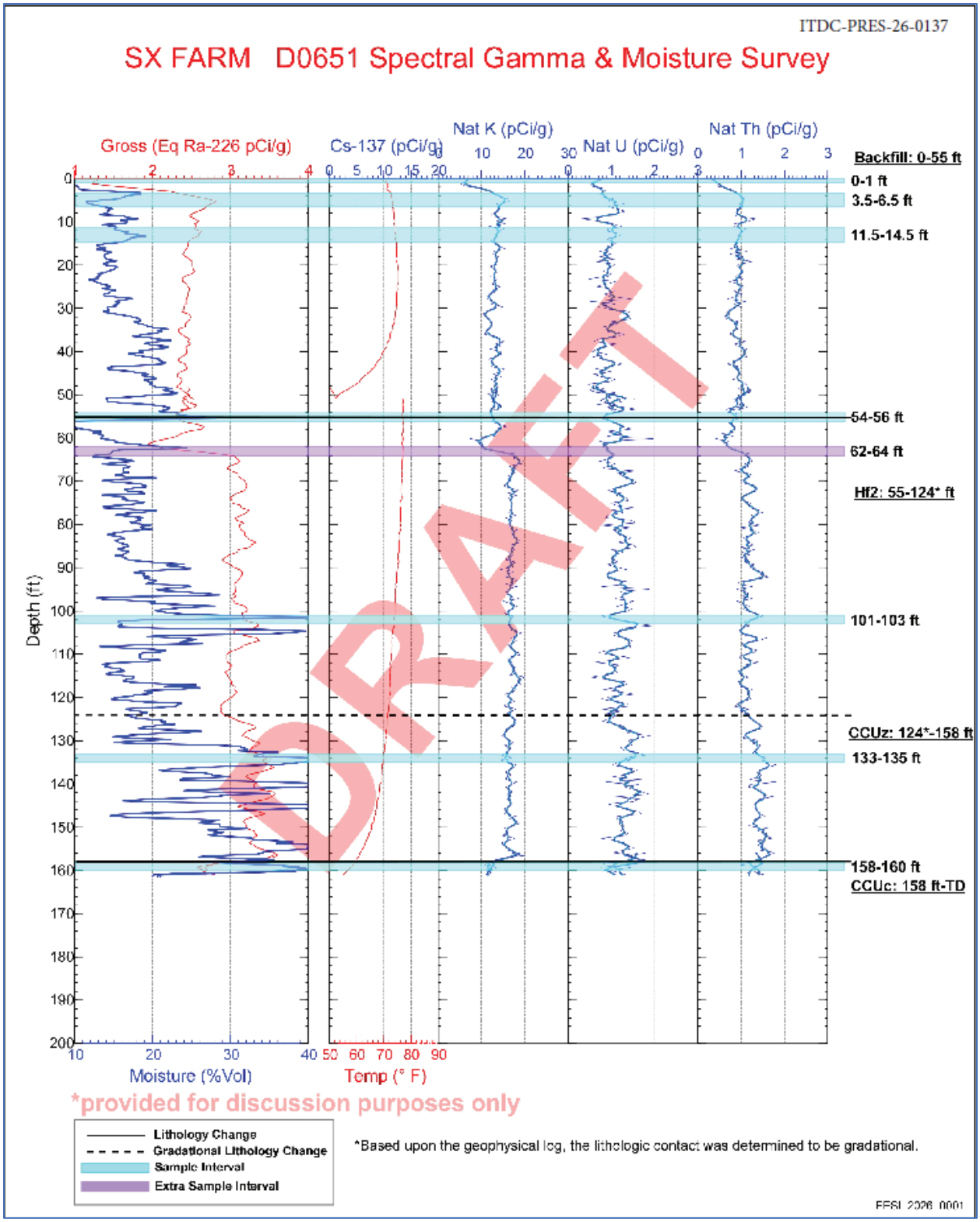
WMA S-SX D0651

The attached draft geophysical logging data is associated with WMA S-SX direct push sampling and RPP-PLAN-65977, *Phase 2 RCRA Facility Investigation/ Corrective Measures Study Work Plan for Waste Management Area S-SX*.

The draft spectral gamma and moisture survey data for D0651 is for discussion purposes only. The final geophysical logging data can be found in the associated completion report following this direct push sampling effort.

DRAFT

Approved for Public Release;
Further Dissemination Unlimited


ITDC-PRES-26-0137
SX FARM D0651 Spectral Gamma & Moisture Survey
Gross (Eq Ra-226 pCi/g)
Cs-137 (pCi/g)
Nat K (pCi/g)
Nat U (pCi/g)
Nat Th (pCi/g)
Depth (ft)
Moisture (%Vol)
Temp (° F)
Backfill: 0-55 ft
0-1 ft
3.5-6.5 ft
11.5-14.5 ft
54-56 ft
62-64 ft
Hf2: 55-124* ft
101-103 ft
CCUz: 124*-158 ft
133-135 ft
158-160 ft
CCUc: 158 ft-TD
DRAFT
*provided for discussion purposes only
Lithology Change
Gradational Lithology Change
Sample Interval
Extra Sample Interval
*Based upon the geophysical log, the lithologic contact was determined to be gradational.

Attachment 5

Email "SX-Farm Sample Depth D0652 and D0646"

(2 pages including cover sheet)

From: Singleton, Kristin M <kristin_m_singleton@rl.gov>
Sent: Wednesday, January 14, 2026 10:55 AM
To: Blackwell, Rebecca I (Becky) <rebecca.blackwell@hanford.gov>; Levitt, Marc T <marc_t_levitt@rl.gov>; Mahood, Richard O <richard_o_mahood@rl.gov>; lujo461@ECY.WA.GOV; jackson.davis@ecy.wa.gov; Green, Amie (ECY) <AMGR461@ECY.WA.GOV>; CGLI461@ECY.WA.GOV; Rogers, Jonathan (ECY) <jonr461@ecy.wa.gov>; Smith-Jackson, Noel <nsmi461@ecy.wa.gov>; Nelson, Carly J <carly_j_nelson@rl.gov>; Schuyler, Kimberly A <kimberly_a_schuyler@rl.gov>; Schuyler, Kim gofreestone <kimschuyler@gofreestone.com>; Ashley Roy <ashleyroy@gofreestone.com>; gepe461@ecy.wa.gov; Klages, Deanna L <deanna_l_klages@rl.gov>
Subject: SX-Farm Sample Depth D0652 and D0646

During our recent sample depth selection meeting, it was inadvertently communicated that surface samples would be collected from locations D0652 and D0646.

To clarify, per the Work Plan / Sampling and Analysis Plan (RPP-PLAN-65977), and because the locations are under the interim surface barrier, surface samples will **not** be collected at D0652 and D0646. As stated in the SAP, " Surface sample will be collected at the 10 sample locations outside the interim surface barrier.

D0652 and D0646 are both located within the surface barrier footprint.

Let me know if you have any questions.

Thank you,

H2C
Hanford Tank Waste Operations & Closure

Kristin Singleton
Scientist
Closure and Interim Measures
Hanford Tank Waste Operations & Closure
hanfordtanks.com
P: (509) 376-0938 **C:** (509) 308-3615
E: Kristin_M_Singleton@rl.gov