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NMED Hazardous Waste Bureau

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Los Alamos
NATIONAL LABORATORY
Environmental Protection and Compliance Division
Los Alamos National Laboratory
P.O. Box 1663, MS M-969
Los Alamos, NM 87545
505-667-2211

National Nuclear Security Administration
Los Alamos Field Office
3747 West Jemez Road, A316
Los Alamos, NM 87544
505-667-5794/Fax 505-606-5948

Symbol:EPC-DO-26-021
Date: February 12, 2026

Mr. JohnDavid Nance, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Subject: Transmittal of Los Alamos National Laboratory Closure Certification Report for Temporary Waste Treatment, Storage, and Repackaging Unit EPA ID #NM0890010515

Dear Mr. Nance:

The United States Department of Energy (DOE) National Nuclear Security Administration, Los Alamos Field Office and Triad National Security, LLC (Triad) submit this report to the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB) in accordance with the *Withdrawal and Resubmittal of a Temporary Authorization Request for Waste Treatment, Storage, and Repackaging, Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID# NM0890010515*, approved on September 4, 2025.

The enclosed document provides certification of clean closure of the temporary hazardous waste management unit at Technical Area 16, Building 205. Included with the submittal is a compact disc with copies of the enclosure, analytical data in an Excel format, and the data packages as received by the off-site analytical laboratory to facilitate the review of the results by NMED-HWB.

If you have any questions for Triad or NA-LA, please contact Naveen Chennubhotla (Triad) at (505) 629-7401, naveenc@lanl.gov or Robert Gallegos (NA-LA) at (505) 901-3824, robert.gallegos@nnsa.doe.gov.

Sincerely,

STEVEN STORY (Affiliate) Digitally signed by STEVEN STORY (Affiliate) Date: 2026.02.09 07:43:14 -07'00'

Steven L. Story
Division Leader
Environmental Protection and Compliance
Triad National Security, LLC

Sincerely,

ROBERT GALLEGOS Digitally signed by ROBERT GALLEGOS Date: 2026.02.12 16:47:47 -07'00'

Robert A. Gallegos
Program Manager
Environmental Permitting and Compliance
U.S. Department of Energy
National Nuclear Security Administration
Los Alamos Field Office

SLS/RAG

Enclosure: Los Alamos National Laboratory Closure Certification Report for Temporary Waste Treatment, Storage, and Repackaging Unit

Copy: Laurie King, USEPA/Region 6, Dallas, TX, king.laurie@epa.gov
JohnDavid Nance, NMED, Santa Fe, NM, jd.nance@env.nm.gov
Neelam Dhawan, NMED-HWB, Santa Fe, NM, neelam.dhawan@env.nm.gov
Siona Briley, NMED-HWB, Santa Fe, NM, siona.briley@env.nm.gov
Theodore A. Wyka, NA-LA, theodore.wyka@nnsa.doe.gov
Dennis R. Svatos, NA-LA, dennis.svatos@nnsa.doe.gov
Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov
Robert A. Gallegos, NA-LA, robert.gallegos@nnsa.doe.gov
W. Emmett Armour, NA-LA, emmett.armour@nnsa.doe.gov
Stephen Jochem, NA-LA, stephen.jochem@nnsa.doe.gov
Jessica M. Kunkle, EM-LA, jessica.kunkle@em.doe.gov
Brian G. Harcek, EM-LA, brian.harcek@em.doe.gov
Jeffrey D. Silvera, EM-LA, jeffrey.silvera@em.doe.gov
Renee K. Martinez, EM-LA, renee.martinez@em.doe.gov
John H. Evans, EM-LA, john.h.evans@em.doe.gov
Robert D. Reine, EM-LA, robert.reine@em.doe.gov
Steven A. Coleman, Triad, ALDESHQ, scoleman@lanl.gov
Jennifer E. Payne, Triad, ALDESHQ, jpayne@lanl.gov
Kacy C. Hopwood, Triad, ALDESHQ, khopwood@lanl.gov
Steven L. Story, Triad, EPC-DO, story@lanl.gov
Katherine J. W. Higgins, Triad, EPC-DO, kwurden@lanl.gov
Noel R. Ortiz, Triad, EPC-DO, noela@lanl.gov
M. Francesca Trujillo, Triad, EPC-DO, francesca@lanl.gov
Jessica L. Moseley, Triad, EPC-WMP, jmoseley@lanl.gov
James M. Eby, Triad, EPC-WMP, jeby@lanl.gov
Naveen K. Chennubhotla, Triad, EPC-WMP, naveenc@lanl.gov
Cecilia M. Trujillo, Triad, EPC-WMP, ceciliat@lanl.gov
Melissa S. Bitting, Triad, GC-IPER, mbitting@lanl.gov
Maureen C. Dolan, Triad, CG-LEL, dolan@lanl.gov
Bradley A. Smith, N3B, bradley.smith@em-la.doe.gov
Robert Edwards III, N3B, robert.edwards@em-la.doe.gov
Christian Maupin, N3B, christian.maupin@em-la.doe.gov
Jennifer Von Rohr, N3B, jennifer.vonrohr@em-la.doe.gov
Silas R. DeRoma, N3B, silas.deroma@em-la.doe.gov
Mark L. Lesinski, N3B, mark.lesinski@em-la.doe.gov
rcra-permitting@lanl.gov
rcra-prr@lanl.gov
eshq-dcrm@lanl.gov
locatesteam@lanl.gov
epccorrespondence@lanl.gov
lasomailbox@nnsa.doe.gov
RegDocs@EM-LA.DOE.GOV
n3brecords@em-la.doe.gov
EMLA.docs@em.doe.gov
interface@lanl.gov
N3Binterface@em-la.doe.gov

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Copy: Laurie King, USEPA/Region 6, Dallas, TX, king.laurie@epa.gov
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Neelam Dhawan, NMED-HWB, Santa Fe, NM, neelam.dhawan@env.nm.gov
Siona Briley, NMED-HWB, Santa Fe, NM, siona.briley@env.nm.gov
Theodore A. Wyka, NA-LA, theodore.wyka@nnsa.doe.gov
Dennis R. Svatos, NA-LA, dennis.svatos@nnsa.doe.gov
Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov
Robert A. Gallegos, NA-LA, robert.gallegos@nnsa.doe.gov
W. Emmett Armour, NA-LA, emmett.armour@nnsa.doe.gov
Stephen Jochem, NA-LA, stephen.jochem@nnsa.doe.gov
Jessica M. Kunkle, EM-LA, jessica.kunkle@em.doe.gov
Brian G. Harcek, EM-LA, brian.harcek@em.doe.gov
Jeffrey D. Silvera, EM-LA, jeffrey.silvera@em.doe.gov
Renee K. Martinez, EM-LA, renee.martinez@em.doe.gov
John H. Evans, EM-LA, john.h.evans@em.doe.gov
Robert D. Reine, EM-LA, robert.reine@em.doe.gov
Steven A. Coleman, Triad, ALDESHQ, scoleman@lanl.gov
Jennifer E. Payne, Triad, ALDESHQ, jpayne@lanl.gov
Kacy C. Hopwood, Triad, ALDESHQ, khopwood@lanl.gov
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Noel R. Ortiz, Triad, EPC-DO, noela@lanl.gov
M. Francesca Trujillo, Triad, EPC-DO, francesca@lanl.gov
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Naveen K. Chennubhotla, Triad, EPC-WMP, naveenc@lanl.gov
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Robert Edwards III, N3B, robert.edwards@em-la.doe.gov
Christian Maupin, N3B, christian.maupin@em-la.doe.gov
Jennifer Von Rohr, N3B, jennifer.vonrohr@em-la.doe.gov
Silas R. DeRoma, N3B, silas.deroma@em-la.doe.gov
Mark L. Lesinski, N3B, mark.lesinski@em-la.doe.gov
rcra-permitting@lanl.gov
rcra-prr@lanl.gov
eshq-dcrm@lanl.gov
locatesteam@lanl.gov
epccorrespondence@lanl.gov
lasomailbox@nnsa.doe.gov
RegDocs@EM-LA.DOE.GOV
n3brecords@em-la.doe.gov
EMLA.docs@em.doe.gov
interface@lanl.gov
N3Binterface@em-la.doe.gov

ENCLOSURE

Los Alamos National Laboratory Closure Certification Report for Temporary Waste Treatment, Storage, and Repackaging Unit

Date: February 12, 2026

EPC-DO-26-021
LA-UR-26-20611

U.S. Department of Energy,
National Nuclear Security Administration Los Alamos Field Office, and
Triad National Security, LLC

LA-UR-26-20611
February 2026

Los Alamos National Laboratory Closure Certification Report for Temporary Waste Treatment, Storage, and Repackaging Unit

Revision: 0

Facility ID No.: NM0890010515
Facility Name: Los Alamos National Laboratory
Legal Owner: U.S. Department of Energy
Legal Operators: U.S. Department of Energy
National Nuclear Security Administration
Los Alamos Field Office
3747 West Jemez Road, A316
Los Alamos, New Mexico, 87544

Environmental Protection & Compliance Division
Los Alamos National Laboratory
P.O. Box 1663, MS M969
Los Alamos, NM 87545

Los Alamos
NATIONAL LABORATORY

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1 Introduction

This closure certification report summarizes the activities performed to meet Resource Conservation and Recovery Act (RCRA) closure requirements for temporary storage and repackaging at Technical Area (TA) 16 at Los Alamos National Laboratory (LANL). TA-16 Building 205 is known as the Weapons Engineering Tritium Facility (WETF) and was temporarily permitted as part of the operations associated with the storage of four flanged tritium waste containers (FTWCs) before their shipment off site for ultimate disposal.

Four FTWCs were packaged at the WETF in 2007 and sent to TA-54 Area G for onsite disposal. During a routine audit, the FTWCs were determined to contain a hazardous waste component, specifically a small amount of lead byproduct from fired explosive actuators (squibs). The lead caused these FTWCs to be RCRA-regulated waste, and that designation precluded onsite disposal. These four FTWCs contained mixed low-level waste (lead residues in spent gas valves, which is regulated by RCRA, and tritiated wastewater, which is regulated by the Atomic Energy Act). Over time, radiolysis of tritiated water in the containers can produce pressurized hydrogen and oxygen gases derived entirely from the tritium low-level waste within the FTWCs. The potential pressurization of the FTWCs arising from the radiolysis of tritiated water presented a safety and radiological issue requiring mitigation prior to the movement of the FTWCs to WETF for storage and repackaging. In March 2020, the Permittees—the U.S. Department of Energy (DOE) Los Alamos Field Office (NA-LA) and Triad National Security, LLC (Triad)—sought temporary authorization to store and repackage the four FTWCs at WETF following their pressure mitigation. On September 4, 2025, the New Mexico Environment Department approved the temporary authorization request with modifications (NMED 2025), and activities under the authorization commenced. From September 15, 2025, through November 14, 2025, the Permittees conducted the activities outlined in the temporary authorization. Four containers were shipped off site and placed in permanent disposal at Waste Control Specialists in Andrews, Texas.

Closure activities were conducted in accordance with the Permittees' proposed closure plan, Section 5.0 Closure Plan (LANL 2020). All deviations are documented in this certification report. NA-LA and Triad (together named as the Permittees) provide this certification report of the clean closure of the hazardous waste management unit at TA-16 Building 205 (WETF) at the conclusion of the FTWC project.

1.1 Description of the Unit Closed

TA-54, Area G, Pad 5, Shed 1028 continues to be used for storage of hazardous waste and will be closed when use ceases. Therefore, closure activities for this storage unit are not addressed within this report.

TA-16 is located in the southwestern portion of LANL on a broad mesa that is bounded on the north by Cañon de Valle, on the south by State Road 4 and Bandelier National Monument, and on the west by West Jemez Road (State Road 501) and the Santa Fe National Forest. Elevation ranges from approximately 7,700 feet at the west end of the technical area to approximately 6,800 feet at the lower east end. Topography varies, ranging from steep precipitous canyon walls to sloping mesa tops. WETF is located in the southwest corner of TA-16 (Figure 1 of the appendix to this document). It is located on a mesa that drains to the east and south and that is bordered on the northern side by Cañon de Valle and on the southern side by Water Canyon.

1.2 Activities Conducted under the Temporary Authorization

Prior to storage at TA-16, activities at TA-54 Area G included removal of the lid of the 85-gallon overpack container, installation of pressure-monitoring manifolds on the FTWCs, pressure mitigation activities, and additional evacuation to ~1/3 atmosphere for stabilization purposes. The equipment put in place for these activities consisted of a flexible exhaust duct within Building 1028 connected to a long rigid duct outside the building. The rigid duct was connected to a blower with a short exhaust stack. Information regarding these activities is specifically discussed in "FTWC Radioactive Air Emissions Summary, Volume 1 Stack Emissions & Off-Site Dose Consequence" (LANL 2025). After these operations were complete, the FTWCs were transported to the WETF at TA-16 for storage and preparation for offsite shipment for disposal. Transport involved an onsite road closure.

The four FTWCs were stored at WETF in Room 122. They were taken to Room 116 when the pressure-monitoring manifolds were removed and the lids were placed back on the 85-gallon overpack containers. The lids of the FTWCs and the overpack containers were secured using standard hand tools and existing procedures. Facility radiological control systems were used to manage contamination, primarily portable ventilation devices and fume hoods that are part of the facility ventilation system. Ultimately, repackaging activities were not required prior to shipment of the waste off-site. The receipt facility accepted the four containers as mixed low-level waste for disposal.

2 Closure Performance

This section and subsections of this closure certification report include a description of the closure activities, deviations from the approved closure plan, and results of sampling and analyses. All closure activities were conducted in accordance with the approved closure plan (LANL 2020).

2.1 Deviations from the Closure Plan

Minor deviations from the approved closure plan occurred due to time passage and to inadvertent oversight of certain plan requirements. They are listed as follows.

- Collection of prestart wipe samples within WETF were inadvertently not conducted; therefore, any potential contamination prior to storage of the FTWCs cannot be defined.
- No wipe samples were collected from equipment because no equipment required decontamination.
- Because containers were not stacked for storage, storage area wall wipe sample collection was limited to a height of 1 to 4 feet.
- Sample collection personnel are trained specifically in waste sampling. They followed the standard U.S. Environmental Protection Agency (EPA) Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods (SW-846) methods for wipe sample collection according to existing procedures for the team. The technique is substantially equivalent to the National Institute of Occupational Safety and Health (NIOSH) technique described within the closure plan.
- In accordance with the offsite analytical laboratory and LANL Sample Management Office guidance, SW-846 Method 6010D was used for the analysis of wipe samples for lead. This method is updated from the methods referenced within the closure plan. It is believed that these methods were inadvertently carried over from older closure plans of the same type and are outdated for activities of this type.

2.2 Closure Activities

Closure procedures at WETF, as outlined in the temporary authorization request (LANL 2020), Section 5.0, Closure Plan, were conducted as described within this section. When the final container was shipped from WETF on November 15, 2025, it was confirmed that no leaks, spills, or loss of containment integrity occurred during storage and final packaging activities. Therefore, there was no need to decontaminate any structure or equipment within Rooms 116 or 122 at the WETF. A structural assessment was conducted before verification sample collection. Photographs of the areas used for waste storage and final packaging preparations are provided as Figure 2 and Figure 3.

Verification wipe was sampling conducted on November 17, 2025, within WETF, Rooms 116 and 122. Sampling was conducted pursuant to SW-846 wipe-sampling provisions and existing procedures using sterile gauze and deionized water (as determined by the offsite analytical laboratory) from an area 100 square centimeters in size. Six wipe samples and one duplicate sample were collected from the walls and floor within Room 122, and two samples were collected within Room 116 from a wall and the floor where final packaging activities occurred. Additionally, a field blank was included with the sampling event. Documentation associated with sample collection activities is included in the attachment to this document. Photographs of sample collection activities are included as Figure 4 through Figure 7.

Temporary equipment installed at TA-54 Area G in and around Building 1028 was removed from the area. Photographs of the equipment in place and after removal are provided as Figure 8 through Figure 10. These activities were not included as part of the closure activities required under the temporary authorization request and approval.

Laboratory Analysis

SW-846 Method 6010D: Inductively Coupled Plasma - Atomic Emission Spectrometry was used by the analytical laboratory to measure the concentration of lead that could be removed from the surfaces of the storage areas in accordance with the closure plan. Table 1 includes analytical results for all samples collected. Analytical results are all non-detections for lead. The Level IV data package from the offsite analytical laboratory is included on the disc provided with this report.

Table 1. Wipe Sample Analytical Results

Location	Sample ID	Parameter	Detection Flag	Report Results	Units	Qualifier
Floor Room 122	WST16-26-379669	Lead	N	0.482	µg/wipe	U
Duplicate Floor Room 122	WST16-26-379670	Lead	N	0.663	µg/wipe	U
Field Blank	WST16-26-379662	Lead	N	1.03	µg/wipe	U
Wall Nearest Drum Storage Room 122	WST16-26-379663	Lead	N	0.502	µg/wipe	U
Wall 1 Room 122	WST16-26-379664	Lead	N	0.659	µg/wipe	U
Wall 2 Room 122	WST16-26-379665	Lead	N	0.437	µg/wipe	U
Floor Room 116	WST16-26-379666	Lead	N	0.347	µg/wipe	U
Wall/Door Room 116	WST16-26-379667	Lead	N	0.228	µg/wipe	U
Wall/Door Room 122	WST16-26-379661	Lead	N	0.335	µg/wipe	U

3 Conclusions

Closure activities as described within this closure certification report demonstrate that closure was performed in accordance with the approved closure plan with the deviations as discussed herein. Based on the determination that the wipe samples contained nondetected concentrations of lead, the temporary storage area at the WETF meets the requirements of the closure performance standard and should be considered a clean closed unit.

4 References

LANL 2020. Withdrawal and Resubmittal of a Temporary Authorization Request for Waste Treatment, Storage, and Repackaging, Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID# NM0890010515. Los Alamos National Laboratory. Correspondence. March 9, 2020. (https://srorlgreen.lanl.gov/object/tr?what=info:lanl-repo/eprr/ESHID-603576)

LANL 2025. FTWC Radioactive Air Emissions Summary, Volume 1 Stack Emissions & Off-Site Dose Consequence. Los Alamos National Laboratory. Correspondence. EPC-DO: 25-331. November 14, 2025.

NMED 2025. Approval with Modifications of Temporary Authorization Request, Class 2 Permit Modification for Waste Treatment, Storage, and Repackaging of Four Flanged Tritium Waste Containers, HWB-LANL-19-033. New Mexico Environment Department letter to Theodore Wyka and Steven Coleman, September 4, 2025.

5 Certification

This section presents a signed certification of the accuracy of this report as required by 40 CFR 270.11 and a certification by an independent registered professional engineer in accordance with 40 CFR 264.115.

5.1 Certification of Accuracy

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

STEVEN STORY (Affiliate) Digitally signed by STEVEN STORY (Affiliate) Date: 2026.02.09 07:43:50 -07'00'

Steven L. Story **Date**
Division Leader
Environmental Protection and Compliance Division
Triad National Security, LLC

ROBERT GALLEGOS Digitally signed by ROBERT GALLEGOS Date: 2026.02.12 16:48:47 -07'00'

Robert A. Gallegos **Date**
Environmental Permitting and Compliance Program Manager
National Nuclear Security Administration
U.S. Department of Energy

5.2 Independent Registered Professional Engineer's Certification

This certification was prepared in accordance with generally accepted professional engineering principles and practice pursuant to the requirements of 40 CFR 265.115, for an independent registered professional engineer's certification. These services have been performed with the care and skill ordinarily exercised by members of the profession practicing under similar conditions at the same time and in the same manner or in a similar locality. No other warranty is either expressed or implied. The finding and certification are based on

- reviewing the NMED-approved closure plans dated March 9, 2020;
- witnessing closure verification sampling activities; and
- reviewing the analytical results and certification report.

With the signature and seal below, I certify that, except for the variances presented in Section 2.1, the closure of the TA-16-205 storage and repackaging areas at TA-16 was conducted in accordance with the NMED-approved revised closure plan. The information presented in this report is, to the best of my knowledge and belief, true, accurate, and complete.

Respectfully,

Longenecker and Associates, LLC



Eli V. Maestas
New Mexico Registered Professional Engineer No. 16643; Expires December 31, 2027

Date: 2/5/2026

Appendix Figures

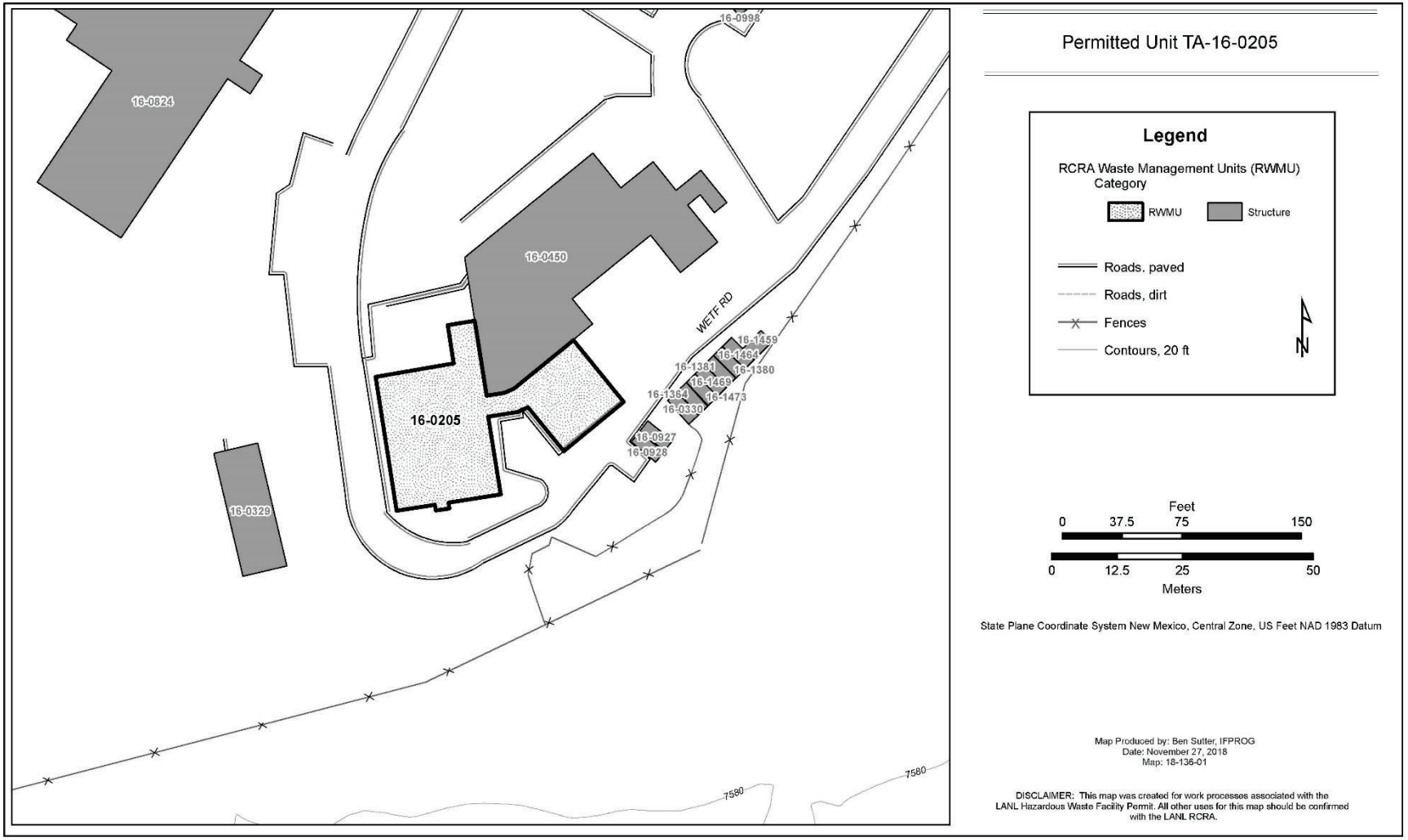


Figure 1. TA-16, Building 205, Project Location.



Figure 2: Empty area within Room 116 at WETF.



Figure 3: Empty area within Room 122 at WETF.



Figure 4: Sampling door within Room 122 at WETF.



Figure 5: Sampling floor within Room 122 at WETF.



Figure 6: Sampling floor within Room 116 at WETF.



Figure 7: Sampling door within Room 116 at WETF.

Appendix: Figures



Figure 8: Equipment staged for use at TA-54, Area G, Pad 5.



Figure 9: TA-54, Area G, Pad 5, Building 1028 after temporary equipment removal.

Appendix: Figures



Figure 10: Inside TA-54, Area G, Pad 5, Building 1028 after FTWC and temporary equipment removal

Attachment Sample Collection Documentation

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379670 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025	FIELD MATRIX:	SWP	OK
TIME COLLECTED (HH:MM):	NA	11:20	MEDIA:	NA	
SWMU/AOC:	NA	NA	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA	OK	FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	FD	
TOP DEPTH:	NA		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on Gel

LOCATION COMMENTS: FLR02 Sampled as Field duplicate
FLR01 is parent sample

FIELD PARAMETERS: Room 122

Sample Time ____ HH MM see HPRMS tag

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): PJ Martinez

REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) Sita Stanfield (Signature) Sita Stanfield	Date/Time 11/17/2025 13:40	RECEIVED BY (Printed Name) Denise Salazar (Signature) Denise Salazar	Date/Time 11/17/25 13:40
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379669 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025	FIELD MATRIX:	SWP	OK
TIME COLLECTED (HH:MM):	NA	11:20	MEDIA:	NA	
SWMU/AOC:	NA	NA	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA	OK	FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	FB	
TOP DEPTH:	NA		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on Gel

LOCATION COMMENTS: Sampled w/ parent WST16-26-379669
Room 122

FIELD PARAMETERS: See HPRMS tag

Sample Time _____ HH:MM

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): P.J Martinez

REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) Sita Stanfield (Signature) Sta Sta	Date/Time 11/17/2025 13:40	RECEIVED BY (Printed Name) Denise Salazar (Signature)	Date/Time 11/17/25 13:40
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379667 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025	FIELD MATRIX:	SWP	OK
TIME COLLECTED (HH:MM):	NA	11:35	MEDIA:	NA	
SWMU/AOC:	NA	NA	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA	OK	FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	REG	
TOP DEPTH:	NA		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on Gel

Room 116 collected in RU4, Door

LOCATION COMMENTS:

see HPRMS tag

FIELD PARAMETERS:

Sample Time ____ HH MM

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): PJ Martinez

REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) Bryan Vigil (Signature)	Date/Time 11/17/25 1:40	RECEIVED BY (Printed Name) Denise Salazar (Signature)	Date/Time 11/17/25 3:40
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379666 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025	FIELD MATRIX:	SWP	OK
TIME COLLECTED (HH:MM):	NA	11:30	MEDIA:	NA	
SWMU/AOC:	NA	NA	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA	OK	FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	REG	
TOP DEPTH:	NA		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on Gel

LOCATION COMMENTS: Room 116, collected FLR03 Floor sample

FIELD PARAMETERS: See HPRMS tag

Sample Time _____ HH:MM

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): PJ Martinez

REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) (Signature) Bryan Vigil	Date/Time 11/17/25 1:40	RECEIVED BY (Printed Name) (Signature) Denise Salazar	Date/Time 11/17 PJ 13:40
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379665 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025 (11/27/2025 SS)	FIELD MATRIX:	SWP	OIC
TIME COLLECTED (HH:MM):	NA	11:24	MEDIA:	NA	
SWMU/AOC:	NA	NA	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA	OK	FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	REG	
TOP DEPTH:	NA		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on GeI

LOCATION COMMENTS: collected w RO2, Will room 122

FIELD PARAMETERS: see HPRmr tag

Sample Time _____ HH MM

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): PJ Martinez

REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) Bryan V-g. (Signature) Bryan V-g.	Date/Time 11/17/25 1:40	RECEIVED BY (Printed Name) Denise Salcedo (Signature)	Date/Time 11/17/25 13:46
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379664 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025	FIELD MATRIX:	SWP	OK
TIME COLLECTED (HH:MM):	NA	11:23	MEDIA:	NA	
SWMU/AOC:	NA	NA	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA	OK	FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	REG	
TOP DEPTH:	NA		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on Gel

LOCATION COMMENTS: collected WROI, wall 3ft up from floor, room 122

FIELD PARAMETERS: see HPRMS Tag

Sample Time _____ HH:MM

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): P. J. Martinez

REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) Bryan Vigil (Signature)	Date/Time 11/17/25 1:45	RECEIVED BY (Printed Name) Denise Salazar (Signature)	Date/Time 11/17/25 13:40
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379663 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025	FIELD MATRIX:	SWP	OK
TIME COLLECTED (HH:MM):	NA	1122	MEDIA:	NA	
SWMU/AOC:	NA	OK	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA	OK	FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	REG	
TOP DEPTH:	NA		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on Gel SS 11/17/25

LOCATION COMMENTS: Sampled ~~WF02~~ WF01 drum storage wall, 3 ft up from floor, room 122

FIELD PARAMETERS:

Sample Time ____ HH:MM See HRMS tag

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): PJ Martinez

REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) (Signature) Bryan Vigil Bryan Vigil	Date/Time 11/17/25 1:40	RECEIVED BY (Printed Name) (Signature) Denise Salazar	Date/Time 11/17/25 3:40
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379662 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025	FIELD MATRIX:	SWP	OK
TIME COLLECTED (HH:MM):		1120	MEDIA:	NA	
SWMU/AOC:		OK	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA	OK	FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	REG	
TOP DEPTH:	NA		SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 Day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on Gel

LOCATION COMMENTS: FLR01 sampled from drum storage floor, room 122
FLR02 is Field Duplicate

FIELD PARAMETERS: collected FBlank

Sample Time ____ HH:MM see HPRMS tag

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): PJ Martinez

REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) Bryan Vig. (Signature) Bryan V	Date/Time 11/17/25 1:40	RECEIVED BY (Printed Name) Denise Salazar (Signature) Denise Salazar	Date/Time 11/17/25 13:40
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379661 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	NA	11/17/2025	FIELD MATRIX:	SWP	OK
TIME COLLECTED (HH:MM):	NA	1115	MEDIA:	NA	
SWMU/AOC:	NA	OK	SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA		FIELD PREP:	NA	
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	REG	
TOP DEPTH:	NA	OK	SAMPLE USAGE:	WST	
BOTTOM DEPTH:	NA		EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
28 day TAT	Pb	1 EA RESEALABLE POLY BAG	0	NONE	Y	Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on Gel

LOCATION COMMENTS: Collected on 4"x4" sterile gauze pre moistened w/ HPLC Plus Deionized water

FIELD PARAMETERS: Sampled DL01 from Door, room 122 see HPRMS tag

Sample Time ____ HH MM

COMPLETED BY (PRINT): Sita Stanfield

COLLECTED BY (PRINT): PJ Martinez, M. Bileen REVIEWED BY (PRINT):

RELINQUISHED BY (Printed Name) Bryan Vigil (Signature) Bryan Vigil	Date/Time 11/17/25 1:40	RECEIVED BY (Printed Name) Denise Salazar (Signature) Denise Salazar	Date/Time 11/17/25 13:40
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Sample Management Office Shipping Classification Determination Checklist

Sampling Plan ID/Name: 17416 / 2115

TEST – Chemical Preservation	YES	NO	NA
If the samples were chemically preserved, do the chemical preservations exceed limits given in 40 CFR 136, Table II – Required Containers, Preservation Techniques and Holding Times (footnote 3)? **Note: sample preservation guidance listed on the SCL complies with CFR requirements.**	○	○	⊗

TEST – DOT Hazardous Material	YES	NO	Unknown
Is the sample a detonable or reactive explosive (DOT Division 1.1 through 1.6)?	○	○	○
Is the sample a compressed gas (DOT Division 2.1, 2.2, or 2.3)?	○	○	○
Is the sample a flammable or combustible liquid (DOT Hazard Class 3)?	○	○	○
Is the sample a flammable solid (DOT Division 4.1)?	○	○	○
Is the sample a spontaneously combustible material (DOT Division 4.2)?	○	○	○
Is the sample a dangerous when wet material (DOT Division 4.3)?	○	○	○
Is the sample an oxidizer or organic peroxide (DOT Division 5.1 or 5.2)?	○	○	○
Is the sample a poisonous material or infectious substance (DOT Division 6.1 or 6.2)?	○	○	○
Is the sample a corrosive material (DOT Hazard Class 8)?	○	○	○
Does the sample contain MORE than 1 lb of a hazardous material (DOT Hazard Class 9)?	○	○	○

TEST – Field Screen

If the samples have field screening measurements of alpha and/or beta activity, then compare the results to the sample and shipment activities limits listed below. Mark the items YES if they equal or exceed the listed activities.

Sample Activity (dpm/100cm²)		Shipment Activity (dpm*g/100cm²)	Sampled Location	YES	NO	NA
Alpha detectable	AND	Alpha ≥ 160,000	AT TA-1 and adjacent hillsides, TA-21, Acid Canyon, MDA C, TA-54 Area G, TA-48 or TA-49	○	○	○
Alpha ≥ 125	AND	Alpha ≥ 1,250,000	AT Other Locations	○	○	○
Beta ≥ 1,500	AND	Beta ≥ 15,000,000	AT Any Location	○	○	○
Alpha ≥ 16,000,000 dpm*g/100cm²?				○	○	○
Beta ≥ 160,000,000 dpm*g/100cm²?				○	○	○
On the external surface of the sample container, is Alpha ≥ 24 dpm/100cm²?				○	○	○
On the external surface of the sample container, is Beta ≥ 240 dpm/100cm²?				○	○	○
On the external surface of the sample container, is surface activity ≥ 0.5 mR/hr?				○	○	○

TEST – Previous Analytical Results

If previous analytical measurements of radioactive isotopes are available for this sampling location, then compare those results to the sample and shipment activity limits listed below. Mark the items YES if they equal or exceed the listed activities.

Sample Activity (pCi/g)		Shipment Activity (pCi)	YES	NO	NA
Am-241 ≥ 27 pCi/g	AND	Am-241 ≥ 270,000 pCi Total	○	○	○
Cs-137 ≥ 270 pCi/g	AND	Cs-137 ≥ 270,000 pCi Total	○	○	○
Pu-238 ≥ 27 pCi/g	AND	Pu-238 ≥ 270,000 pCi Total	○	○	○
Pu-239/240 ≥ 27 pCi/g	AND	Pu-239/240 ≥ 270,000 pCi Total	○	○	○
Th-228 ≥ 27 pCi/g	AND	Th-228 ≥ 270,000 pCi Total	○	○	○
U-234 ≥ 270 pCi/g	AND	U-234 ≥ 1,600,000,000 pCi Total	○	○	○
U-238 ≥ 270 pCi/g	AND	U-238 unlimited	○	○	○
H-3 ≥ 27,000,000 pCi/g	AND	H-3 ≥ 27,000,000,000 pCi Total	○	○	○
Am-241, Pu-238, Pu-239/240, or Th228 ≥ 27,000,000 pCi			○	○	○
Cs-137 ≥ 270,000,000,000 pCi			○	○	○
U-234 ≥ 160,000,000 pCi			○	○	○
H-3 ≥ 1 Ci			○	○	○

If ANY items on this form are marked YES, SMO will not transport the samples. Contact OS-PT for guidance.

Documented Field Team Member Statement

If no items on this form are marked YES, then these samples do not meet the criteria for classification in any hazard class according to 49 CFR Part 173 and may be shipped by the ALDESHQSS SMO.

Hazard Assessment Completed By: (Printed Name) Bryan Vig. (Signature) Bryan Vig	**Date:** 11/17/25	**Time:** 1:40
Hazard Assessment Reviewed By: (Printed Name) Denise Salazar (Signature) Denise Salazar	**Date:** 11/17/25	**Time:** 13:40

TRITIUM CONTAMINATION SURVEY FORM

Sample Description

Date: 11/17/2025 No. of Samples: 9

TA: 16 Bldg 205 Rm 1

RCT: T. Healy / J. Reed / L. Houdashelt Z No. 235542/310719/318553

Signature T. Healy

Phone: 5-6965/7-1454/ 5-5936 Fax: N/A

Review By

Initials _____ Z# _____ Date _____

Sample Tracking Number

N/A

Remarks

Protocol #21

Purpose of Survey / Additional Information

☐ Routine ☐ Pre-Job ☐ Post-Job

☐ Item Release ☐ Hot-Job

☐ Offsite Shipment ☑ Onsite Shipment

☐ Non-Routine/Other: H-3 Smears of FTWC

RCRA Sample Locations

☐ Daily ☐ Weekly ☐ Monthly

☐ Semi-Annual ☐ Annual

☐ Other

RWP # N/A RPIN# N/A

Instrumentation

LSC Counter	HSE No.	% EFF	BKG (dpm)	MDA (dpm)
TRI CARB 2910	SGTC 28150638	See IPA Data	in RCT Office	27
TRI CARB 4910	SGLO 36170586	See IPA Data	in RCT Office	N/A

See attached data sheet if checked→ ☑

Smear No.	Item or Location	Tritium Smear Results dpm/100 cm²	Smear No.	Item or Location	Tritium Smear Results dpm/100cm²
1	Blank	NDA	20		
2	FTWC RCRA Sample Location - #1	NDA	21		
3	FTWC RCRA Sample Location - #2A	NDA	22		
4	FTWC RCRA Sample Location - #2B	67	23		
5	FTWC RCRA Sample Location - #3	86	24		
6	FTWC RCRA Sample Location - #4	NDA	25		
7	FTWC RCRA Sample Location - #5	NDA	26	N A	
8	FTWC RCRA Sample Location - #6	92	27		
9	FTWC RCRA Sample Location - #7	139	28		
10			29		
11			30		
12			31		
13			32		
14	N A		33		
15			34		
16			35		
17			36		
18			37		
19			38		

COPY

TGH 11/17/25

Assay Definition

Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\SmearSurvey21\20251117_1213
Raw Results Path: C:\Packard\Tricarb\Results\Default\SmearSurvey21\20251117_1213\20251117_1213.results
Comma-Delimited File Name: C:\Packard\Tricarb\Results\Default\SmearSurvey21\20251117_1213\SmearSurvey21.csv
Assay File Name: C:\Packard\TriCarb\Assays\SmearSurvey21.lsa

Count Conditions

Nuclide: 2910-3H
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 0.5 2s%
  Pre-Count Delay (min): 0.10
Quench Set:
  Low Energy: 2910-Quench
Count Time (min): 1.00
Count Mode: Normal
Assay Count Cycles: 1 Repeat Sample Count: 1
#Vials/Sample: 1 Calculate % Reference: Off

COPY

Background Subtract

Background Subtract: On - IPA
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions	LL	UL	Bkg Subtract
A	0.0	18.6	16.72
B	2.0	18.6	14.58
C	0.0	2000.0	35.87

Count Corrections

Static Controller: On Luminescence Correction: On
Colored Samples: Off Heterogeneity Monitor: n/a
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Cycle 1 Results

S#	Count Time	CPMA	DPM1	SIS	tSIE	MESSAGES
1	1.00	0	0	0.00	614.39	
2	1.00	0	1	0.00	595.40	
3	1.00	0	1	0.00	555.17	
4	1.00	28	67	11.33	579.50	
5	1.00	37	86	16.32	609.30	
6	1.00	6	15	12.57	610.78	
7	1.00	2	5	0.00	599.35	
8	1.00	39	92	12.08	591.53	
9	1.00	60	139	10.07	608.82	

TLB 11/17/25

TRITIUM CONTAMINATION SURVEY FORM

Sample Description

Date: 11/17/2025 No. of Samples: 10

TA: 16 Bldg 205 Rm 1

RCT: T. Healy / J. Reed / L. Houdashelt Z No. 235542/310719/318553

Signature: T. Healy

Phone: 5-6965/ 7-1454/ 5-5936 Fax: N/A

Review By

Initials ____ Z# ____ Date ____

Sample Tracking Number

N/A

Remarks

Protocol #22

Purpose of Survey / Additional Information

☐ Routine ☐ Pre-Job ☐ Post-Job

☐ Item Release ☐ Hot-Job

☐ Offsite Shipment ☑ Onsite Shipment

☐ Non-Routine/Other: Exterior of FTWC Storage Area

RCRA Sample Bags

☐ Daily ☐ Weekly ☐ Monthly

☐ Semi-Annual ☐ Annual

☐ Other

RWP # N/A RPIN# N/A

Instrumentation

LSC Counter	HSE No.	% EFF	BKG (dpm)	MDA (dpm)
TRI CARB 2910	SGTC 28150638	See IPA Data	in RCT Office	27
TRI CARB 4910	SGLO 36170586	See IPA Data	in RCT Office	N/A

See attached data sheet if checked→ ☑

Smear No.	Item or Location	Tritium Smear Results dpm/100 cm²	Smear No.	Item or Location	Tritium Smear Results dpm/100cm²
1	Blank	50	20		
2	Sample Bag Exterior - DL01 Room 122	43	21		
3	Sample Bag Exterior - FLR01	36	22		
4	Sample Bag Exterior - FLR02 (D)	52	23		
5	Sample Bag Exterior - Field Blank	68	24		
6	Sample Bag Exterior - WF01	74	25		
7	Sample Bag Exterior - WR01	NDA	26		
8	Sample Bag Exterior - WR02	NDA	27		
9	Sample Bag Exterior - FLR03 Room 116	75	28		
10	Sample Bag Exterior - WR04	44	29		
11			30		
12			31		
13			32		
14	N A		33		
15			34		
16			35		
17			36		
18			37		
19			38		

COPY

TRH 11/17/25

PROJECT NAME _____ NOTEBOOK NO. _____

DATE: 11/17/2025
TIME 11:15
RFA# 2115 / 17416

COST CODE: 7N03A
PROGRAM CODE: 15641
COST ACCOUNT: 0102 0000

PROJECT NAME: Luciana Vigil - Hulterman
PROJECT LOCATION: TA 16 - 0205
COLLECTORS NAME: PJ martinez
POSSIBLE SAMPLE HAZARD(S): Tritium
ATTENDEES: M. Bilen, PJ Martinez, S. Stanfield, L. Vigil
WEATHER CONDITIONS Inside
SAMPLE HISTORY: Collected samples w/ 4"×4" sterile gauze pre moistened w/ HPLC Plus Deionized water, each swipe is 100cm² sampled from rooms 122, 116
See HPRMS tag

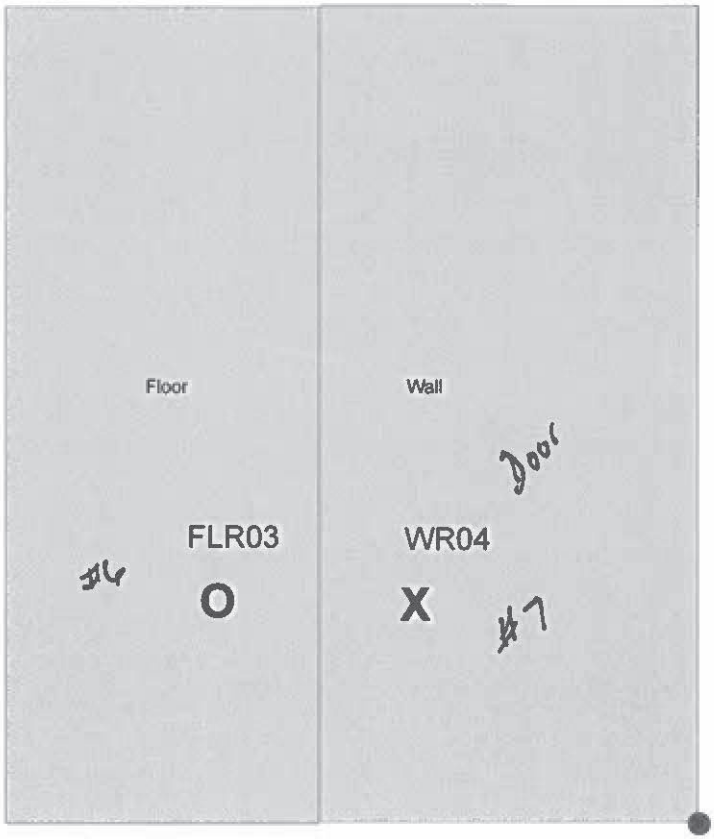
	SAMPLE NO:	SAMPLE TYPE:	ANALYSIS:	VOLUME:
Room 122	WSTI6-25-379661	SWP	Pb	(1 swp resealable poly bag)
	662			
	663			
	664			
	665			
Room 116	WSTI6-25-379666	SWP	Pb	(1 swp resealable poly bag)
	667	SWP	Pb	
	669	SWP	Pb	Field blank
	670	SWP	Pb	Field duplicate

11/17/2025

SIGNATURE _____ DATE _____ 20 _____
READ AND UNDERSTOOD _____ DATE _____ 20 _____

Room 116

Sample names/locations:
WR04 - wall to the right of the entry door
FLR03 - floor under area where resealing occurred

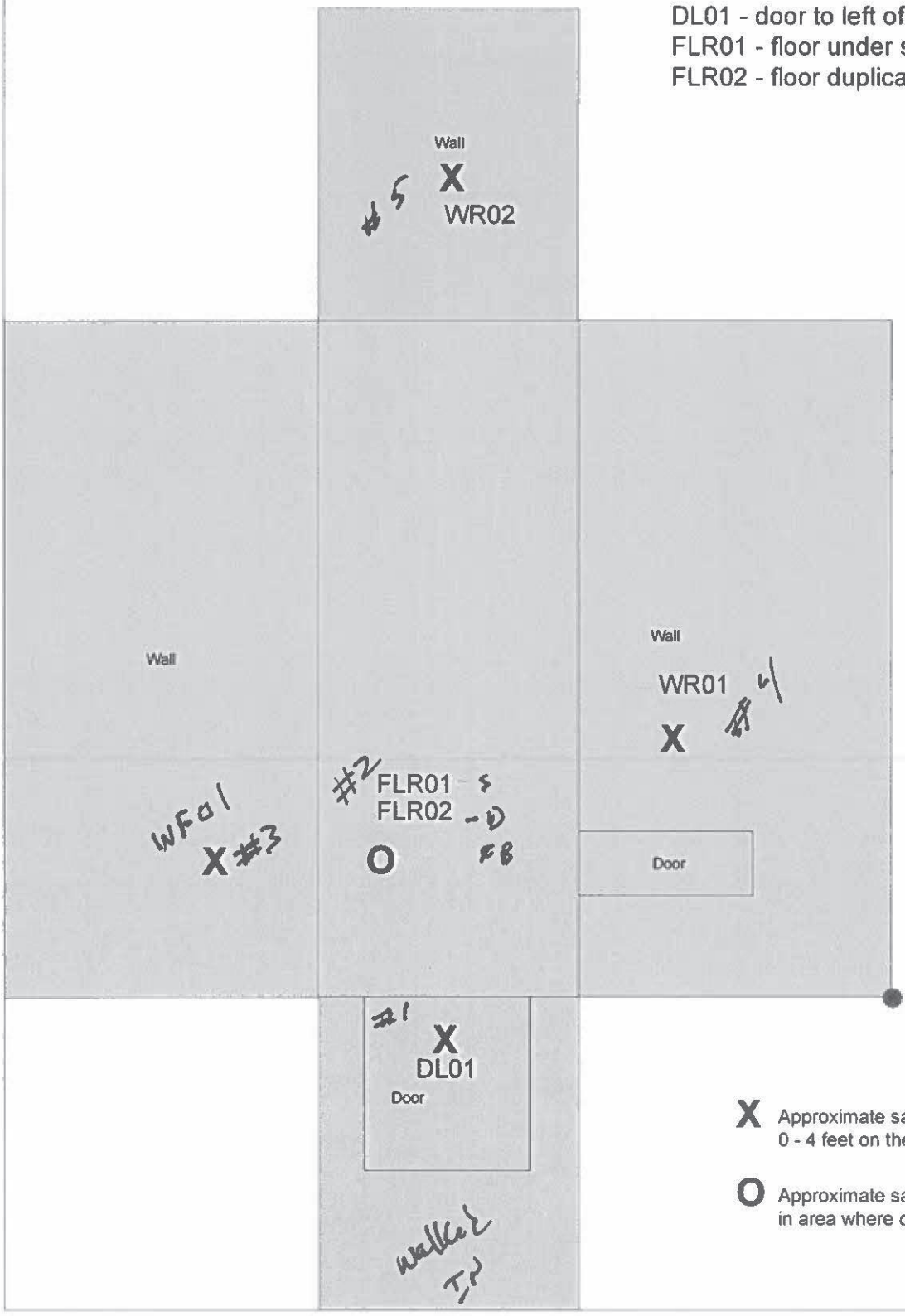


X Approximate sample location between 0 - 4 feet on the wall

O Approximate sample location on floor in area where containers were located

Room 122

Sample names/locations:
WR01 - wall to the right of the entry door
WR02 - wall to far right of entry door
WF01 - wall behind container storage
DL01 - door to left of entry door
FLR01 - floor under storage
FLR02 - floor duplicate under storage



X Approximate sample location between 0 - 4 feet on the wall

O Approximate sample location on floor in area where containers were located

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 17416 **EVENT NAME:** RFA 2115 - Bruce Baumgartner - TA-16-0205

SAMPLE ID: WST16-26-379668 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	/		FIELD MATRIX:	SWP	
TIME COLLECTED (HH:MM):			MEDIA:		
SWMU/AOC:			SAMPLE TECH CODE:	M	
LOCATION ID:	WST-RCRA		FIELD PREP:		
LOCATION TYPE:	GENERIC		FIELD QC TYPE:	REG	
TOP DEPTH:			SAMPLE USAGE:	WST	
BOTTOM DEPTH:			EXCAVATED:		YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
	Pb	1 EA RESEALABLE POLY BAG	0	NONE		Report results on 'per wipe' basis

SAMPLE COMMENTS: Analytical should be 6010C or 6020 based on GeI

LOCATION COMMENTS:

FIELD PARAMETERS:

Sample Time _____ HH:MM

CPL MB 11/17/2025

COMPLETED BY (PRINT):

COLLECTED BY (PRINT): **REVIEWED BY (PRINT):**

RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Vigil, Bryan

From: owner-wastesampling@maillist.lanl.gov on behalf of Montoya, Melissa Denise <missy@lanl.gov>
Sent: Monday, November 10, 2025 10:37 AM
To: Stanfield, Sita Maria; Salazar, Denise Robin
Cc: Valerie Davis via; Marczak, Stanislaw
Subject: RE: COC request 2115

I forwarded this email to Stas. He will reach out to Gel and let me know what needs to be done. I think he took the day off today. So, this paperwork will get done tomorrow once I hear from him.

Thank you,

Melissa

From: Stanfield, Sita Maria <sstanfield@lanl.gov>
Sent: Monday, November 10, 2025 10:19 AM
To: Salazar, Denise Robin <dtrjll@lanl.gov>; Montoya, Melissa Denise <missy@lanl.gov>
Cc: Valerie Davis via <wastesampling@lanl.gov>
Subject: COC request 2115

Good morning,

I would like to request COCs for the following:

RFA 2115 for Bruce Baumgartner @ TA 16 building 0205
Cost Code: 7N030A-KG41-0102-0000
Sample: Wet Swipe Guaze. Analytical Methods should be 6010C or 6020 based on decision by GEL. Please provide analytical group Pb and please include a note on the SCLs "Report results on 'per wipe' basis"

Please generate 9 total COCs- inlude one Field Blank and one Field Duplicate

Thank you!
Sita

Sita M. Stanfield
Environmental Professional
EPC-ES/Environmental Stewardship

Mobile: 505.819.1609

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lanl.gov

Outlook

COC request 2115

From owner-wastesampling@maillist.lanl.gov <owner-wastesampling@maillist.lanl.gov>
on behalf of
Stanfield, Sita Maria <sstanfield@lanl.gov>

Date Mon 11/10/2025 10:19 AM

To Salazar, Denise Robin <dtrjll@lanl.gov>; Montoya, Melissa Denise <missy@lanl.gov>

Cc Valerie Davis via <wastesampling@lanl.gov>

Good morning,

I would like to request COCs for the following:

RFA 2115 for Bruce Baumgartner @ TA 16 building 0205
Cost Code: 7N030A-KG41-0102-0000
Sample: Wet Swipe Guaze. Analytical Methods should be 6010C or 6020 based on decision by GEL. Please provide analytical group Pb and please include a note on the SCLs "Report results on 'per wipe' basis"

Please generate 9 total COCs- inlude one Field Blank and one Field Duplicate

Thank you!
Sita

Sita M. Stanfield
Environmental Professional
EPC-ES/Environmental Stewardship

Mobile: 505.819.1609

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Tailgate Briefing for Waste Sampling Fieldwork (EPC-ES)

Tailgate briefings are conducted once personnel have reached the fieldwork location and before starting fieldwork. (The Pre-Field Checklist on Page 4 lists tasks to complete before going into the field.) Tailgate briefings should be a conversation during which roles and responsibilities are defined, unique hazards are discussed, and questions are welcomed and addressed. The intent is to get the field crew communicating to ensure that the work will be done safely and effectively. The person who leads the tailgate briefing should ask open-ended questions and encourage personnel to participate in the conversation.

Tailgate Briefing Checklist		
Date and Time:	Job Description/Location:	Job Scope:
11/17/25	RFA 2115	Sample Coll Lead Events

- [x] What are we going to accomplish today?
- [x] What are the roles and responsibilities of each individual?
- [x] What are the critical steps we need to take to do this work safely and completely?
- [x] What hazards might we face today, and how can we minimize risk?
  - [x] Slips (loose gravel, snow/ice/mud)
  - [x] Trips (uneven walking surfaces, downed vegetation, downed trees)
  - [x] Falls (gopher holes, uneven ground, steep slopes)
  - [ ] Other Physical hazard: heavy lifting and sharps
  - [ ] Heavy Machinery
  - [ ] Loud Noises (testing, construction equipment, etc.)
  - [ ] Biological Hazards (snakes, rodents/rodent droppings, mosquitos, wildlife, bubonic plague, mold, spiders)
  - [x] Radiological Hazards
  - [ ] Electrical Hazards (peristaltic pump operation)
  - [ ] Fire and Explosion Hazards (incompatible wastes, spark-producing operations, excess pressure)
  - [ ] Weather: Lightning (see page 2), heat, cold, rain, snow, fog
  - [ ] Chemical hazards
- [x] What PPE (e.g., safety glasses/goggles, nitrile gloves, face shield, and/or lab coat) is required to collect, handle, and/or preserve samples?
- [x] What do we do if we find something we cannot identify? Whom do we contact with questions?
- [x] Ensure that sufficient personnel are available to support the sampling event (the minimum number of personnel required for the sampling event is two).
- [ ] Ensure that adequate support personnel is available (e.g., OSH-ISH, RP, HE Operations, and/or forklift operators).
- [x] Before sampling, ensure that RP, OSH-ISH, and HE Operations personnel have performed necessary reviews and/or monitoring for gross radioactive (alpha and beta/gamma), VOC, and HE contamination, respectively.
- [x] Containers with unknown material that are located where engineering controls cannot be put in place must be opened and sampled by HAZMAT personnel.

Tailgate Briefing Checklist
☐ IF a PFAS sample is listed on the Sample Collection Log/Field COC form, THEN refer to EPC-CP-TP-1017, Per- and Polyfluoroalkyl Substances (PFAS) Sampling for the Water Quality Program, for special limitations and procedures that will need to be integrated into the sampling event.
☐ Reminder: Everyone has the right and responsibility to Pause Work or Stop Work!



Additional Information and Resources	
Contact Numbers	
Emergency Operations Support Center	505-667-2400
In case of emergency dial 911, then call the EOSC. You MUST report all emergencies to the EOSC when the incident could impact worker health and safety. The EOSC will make additional notifications as needed. Examples: Fire or smoke, hazardous material release, medical emergency that requires Fire Department assistance, suspicious packages or devices, suspicious persons or vehicles, active threat/shooter or workplace violence, vehicle accident with or without injuries, criminal activities	
Report Non-Emergency Incidents to the EOSC. Examples: Drones flying over LANL property, wildlife encounters, theft or damage of government or personal property, trespassing, UXO concerns	

Lightning

According to EPC-DO-QP-100, General Field Safety, follow the "30-30 Rule": After you see lightning, count to 30. If you hear thunder before you reach 30, **suspend activities and seek shelter in a building or vehicle (do not use a cavate as shelter)**. Stay sheltered until 30 minutes after you hear the last thunder.

Lightning
If caught Outdoors in a Thunderstorm
• Stay away from tall, isolated objects like trees, flagpoles, poles, and towers. • Stay away from open fields, shorelines, creeks, and barbed-wire or other metal fences. • Move downhill to lower ground while staying alert to and away from areas subject to flash flooding. • Have your party spread out but maintain visual contact.
Imminent Strikes

Lightning
A close or direct lightning strike could be preceded by • a buzzing, clicking, hissing, or cracking sound; • a tingling sensation; • hair standing on end; and • metal objects emitting a soft, blue-white glow called "St. Elmo's Fire." These signs indicate that a strike will occur within seconds. Immediately move your feet close together, crouch down, grab your ankles and tuck your head down as far as you can. You probably will not have time to cast off equipment. Once the threat of imminent strike is over, continue moving toward shelter

References

- P300, Integrated Work Management
- EPC-DO-QP-100, General Field Safety
- FSD-300-3-002 R0, 2021 Integrated Work Management Pre-Job Briefing and Post-Job Review
- EPC-ES-TP-517, EPC-ES Waste Sample Collection
- EPC-CP-TP-1017, Per- and Polyfluoroalkyl Substances (PFAS) Sampling for the Water Quality Program

Pre-Field Checklist	Yes	No	N/A
Review the RFA for completeness; request additional information and/or coordinate with the WMC or other RFA point of contact (POC) to schedule a site visit to adequately identify the waste sampling needs.	✓		
Consult with the WMC or RFA POC to plan necessary coordination with other Laboratory groups/support personnel (e.g., RP, OSH-ISH, HE Operations, and/or forklift operators).	✓		
Identify the sampling and safety equipment and tools needed for the sampling event.	✓		
Ensure an excavation permit has been obtained by the requestor (required anytime the ground is disturbed).			✓
Submit an email request to the SMO to generate the required Sample Collection Log/Field COC forms, custody seals, and preprinted sample labels.	✓		
Before sampling, ensure that RP, OSH-ISH, and HE Operations personnel have performed necessary reviews and/or monitoring for gross radioactive (alpha and beta/gamma), VOC, and HE contamination, respectively.	✓		
Review and verify that the sample field documentation is correct (e.g., COC, HPAL data, RP data, OSH-ISH data, HE data)	✓		
Consult the SMO lead when: • radiation is detected in HPAL documents, • HE is detected, • concentrated chemical waste is sampled to determine if limited quantities should be collected, and/or • SM-30 will be used for shipping	✓		
Become familiar with identified hazards and/or restrictions, and review and sign all necessary RWPs and IWDs before performing field sampling activities	✓		
Contact the WMC (and/or RFA POC, if different from the WMC) to schedule the sampling event.	✓		

Pre-Field Checklist	Yes	No	N/A
Ensure that all site access requirements are fulfilled.	✓		
Before the sampling event, obtain the Sample Collection Log/Field COC forms, custody seals, and sample labels for the samples	✓		
Verify that there are enough coolers and ice/Blue Ice to support the sampling event.	✓		
Charge the batteries for the peristaltic pump, if required			✓
Verify that there are sufficient sample containers, QC sample containers, and custody seals to support the sampling event	✓		
Verify that there are sufficient preservative aliquots for the sampling event and that they have not expired.	✓		

Name	Role	Z#	Date
Person in Charge (PIC):			
Bryan Vigil	PIC	118446	11/17/25
Site Stanfield	Sampler	350432	11/17/25
P. J. Montoya	Sampler	208498	11/17/25
Meredith Bileen	Sampler	361605	11/17/25
Luciana Vigil Holtzman	Compliance	121473	11/17/25
Brian Boynton	WRAC	122256	11/17/25
Victor Maestas	OBSERVER	339836	11/17/25

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Request For Analysis

– Bring Ice

Charge Code Info

RFA ID	2115
Request Date	07-NOV-2025
Status	Submitted
Admin Comments	
Cost Center	7N030A
Program Code	KG41
Cost Account	0102
Work Package	0000
Turn Around Time	28
Requested By	(121473) Vigil-Holterman Luciana R - EPC-WMP - 505-665-3435
Is Requestor a WMC or Waste Generator?	Neither
WMC or Waste Generator	(122256) Baumgartner Bruce E - WM-WGS - 505-667-2434
WMC Comments	Bruce is helping to coordinate the effort to collect these samples for closure of a temporary unit. This is not a sample of waste.

Location of Material

Directorate	
Division	
Group	EPC-WMP
Sample TA	16
Sample Building	0205
Sample Room	122
FOD	WFO
Other	Samples will be collected in Room 122.
Is Material Radioactive, Suspect Radioactive, or Unknown?	Yes
Type	Unknown
Was Waste Generated or Stored in a Controlled Area	
RCT	(235542) Healy Terrence E - RP-FS

Purpose

Describe the Problem	
How will the data be used in meeting the objective	Data will be used as a part of fulfillment closure activities required under a temporarily authorized permitted unit. Closure plan will be transmitted to the waste samplers.
Will The Analytical Be used For a Specific Purpose?	Surface wipe samples must be collected from four walls and the floor of room 122. A field blank must also be collected for the day of sample collection. Collection methods utilized must be consistent with surface wipe requirements of NIOSH and analyzed for lead.
Purpose	Other
Analytical Method(s)	Other
Analytical Method Comments	Analytic method should be 6010C or 6020 based on decision by GEL. Please provide analytical group Pb and please includes a note on the SCLs ¿report results on 'per wipe' basis".

Material Info

Matrix of Material	Solid

* Note for COC. Samples collected following SW 846 and EPC-ES waste ~~sampling~~ (EPC-ES-TP-517)

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Request For Analysis

Waste Classes	Suspect RAD
Material Description and any known Constituents	Additional information from the closure plan: The NIOSH method includes wiping a 100 square centimeter area at each discrete location with a gauze wipe wetted with a liquid solution appropriate for the desired analysis (e.g., deionized water for lead). For wipe sampling, guidance from the analytical laboratory must be obtained prior to wipe verification sampling to confirm that the solution chosen for each analysis is appropriate for the analysis to be conducted and that wipe sampling is a proper technique for the analysis.

Waste Container Info

Waste Container Size	Other
Specify Size	As directed by the analytical laboratory.
Waste Container Type	Other
Waste Container Tank Description	Not applicable

Comments

3.0 TRAINING REQUIREMENTS

The Permittees shall ensure that all personnel who are involved in hazardous waste management activities in rooms 116 and 122 successfully complete all training programs in compliance with the training requirements of 40 CFR § 264.16, which is incorporated herein by reference, as well as the training requirements in Permit Attachment F, *Personnel Training Plan*. Additionally, personnel will be trained to a specific WETF procedure for FTWC unsealing and unloading.

4.0 CORRECTIVE ACTION

Permit Attachment K, *Listing of SWMUs and AOCs,* provides information in response to regulatory requirements in 40 CFR §§ 270.14(d), 264.101, and 264.602.

5.0 CLOSURE PLAN

The closure plan for TA-54, Area G, Pad 5 is included as Permit Attachment G.8, *Technical Area 54, Area G, Pad 5 Outdoor Container Storage Unit Closure Plan.* Closure requirements for WETF associated with this temporary authorization are detailed in the sections below. These requirements were drafted in accordance with Permit Part 9, *Closure*.

5.1 Introduction

The temporary authorization area consists of two rooms within the WETF. When the area is no longer needed for storage of the waste, the following closure activities will be conducted.

5.2 Estimate Of Maximum Waste Processed

The four FTWCs that will be stored and repackaged in the rooms are a total volume of 340 gallons. Approximately 10 gallons of mixed waste will be segregated from the total volume and sent off-site for disposal.

5.3 General Information

5.3.1 Performance Standard

Rooms 116 and 122 at WETF will be returned to their original state.

5.3.2 Schedule

The activities outlined for closure will begin within 30 days after the mixed waste (repackaged lead components) has been evaluated and shipped off-site for disposal.

5.3.3 Amendment of the Plan

This closure plan will be amended in the event that a spill or release occurs during storage or repackaging.

5.4 Closure Procedures

5.4.1 Records Review And Structural Assessment

Operating records for this temporary authorization campaign will be reviewed for any leaks, spills, or loss of containment integrity during the period of treatment, storage, sorting and repackaging operations.

5.4.2 Decontamination and/or Removal of Structures and Equipment

Under normal operational conditions, it is expected that there will be no need to decontaminate any structure or equipment in Rooms 116 and 122. In the unlikely event that there is a documented release in the rooms, Permit conditions for indoor units in Permit Sections 9.4.3, 9.4.4, and 9.4.5 will generally become applicable. Permit Section 9.4.3.1 requirements will be met by performing at least two consecutive wipe-downs of the surfaces and structures using cheesecloth and approved cleaning agents.

5.4.3 Equipment Used During Decontamination Activities

Any equipment used for decontamination purposes will be managed in accordance with applicable LANL procedures.

5.5 Sampling and Analysis Plan

Pre-start wipe samples will be collected in Rooms 116 and 122 to establish a baseline condition to which the room will be returned at the conclusion of operations. Facility radiological control systems will be utilized to manage contamination, primarily portable ventilation devices and fume hoods that are part of the facility ventilation system.

5.5.1 Decontamination Verification Sampling Activities

Decontamination verification sampling activities for the constituent of concern, as described in Sections 5.5.1 through 5.5.5 below, will be conducted at WETF within Rooms 116 and 122 only in the event that there is a documented release. They would be conducted in order to verify that surfaces and related equipment at WETF meet the closure performance standards in Permit Section 9.2. All samples will be collected and analyzed in accordance with the Permit, Section 9.4.

One wipe sample will be collected from each piece of decontaminated equipment at WETF. In compliance with Permit Section 9.4.7.1.i, this plan will ensure the collection of at least one wipe sample from the floor and one from each wall (up to 11 feet in height from floor) of the room. Verification wipe samples will be collected from random locations within the storage, sorting and repackaging operational area within Rooms 116 and 122. A total of six wipe samples will be collected in room 122: one from the floor; one from each of the four walls; and one from the area of the entry door. One wipe sample will be taken from the floor in room 116 where the repackaging will occur.

5.5.2 Sample Collection Procedures

Samples will be collected in accordance with Permit Section 9.4.7.1, which incorporates guidance from the EPA (EPA, 2002), DOE (DOE, 1995), and other NMED-approved procedures.

5.5.2.1 Wipe Sampling

Surface wipe samples will be collected and analyzed to determine if residual hazardous constituents remain on the surfaces and related equipment at WETF in Rooms 116 and 122. Samples will be collected in accordance with the National Institute of Occupational Safety and Health (NIOSH) *Manual of Analytical Methods* (NIOSH, 1994). The appropriate wipe sample method will consider the type of surface being sampled, the type of constituent being sampled for, the solution used, and the desired constituent concentration detection limits.

The NIOSH method includes wiping a 100 square centimeter area at each discrete location with a gauze wipe wetted with a liquid solution appropriate for the desired analysis (*e.g.*, deionized water for lead). For wipe sampling, guidance from the analytical laboratory must be obtained prior to wipe verification sampling to confirm that the solution chosen for each analysis is appropriate for the analysis to be conducted and that wipe sampling is a proper technique for the analysis.

5.5.2.2 Cleaning of Sampling Equipment

Reusable sampling equipment will be cleaned and rinsed prior to use. Sampling equipment rinsate blanks will be collected and analyzed only if reusable sampling equipment is used. Reusable decontamination equipment, including protective clothing and tools, used during closure activities will be scraped as necessary to remove residue and cleaned with a wash water solution. Sampling equipment will be cleaned prior to each use with a wash solution, rinsed several times with tap water, and air-dried to prevent cross-contamination of samples. A disposable sampler is considered clean if still in a factory sealed wrapper.

5.5.3 Sample Management Procedures

The following sections provide a description of sample documentation, handling, preservation, storage, packaging, and transportation requirements that will be followed during the sampling activities associated with the closure.

5.5.3.1 Sample Documentation

Sampling personnel will complete and maintain records to document sampling and analysis activities. Sample documentation will include sample identification numbers, chain-of-custody forms, analysis requested, sample logbooks detailing sample collection activities, and shipping forms (if necessary).

5.5.3.2 Chain-Of-Custody

Chain-of-custody forms will be maintained by sampling personnel until samples are relinquished to the analytical laboratory. This will ensure the integrity of the samples and provide for an accurate and defensible written record of the sampling possession and handling from the time of collection until laboratory analysis. One chain-of-custody form may be used to document all of the samples collected from a single sampling event. The sample collector will be responsible for the integrity of the samples collected until properly transferred to another person. The EPA considers a sample to be in a person's custody if it is:

- In a person's physical possession;
- In view of the person in possession; or
- Secured by that person in a restricted access area to prevent tampering.

The sample collector will document all pertinent sample collection data. Individuals relinquishing or receiving custody of the samples will sign, date, and note the time on the analysis request and chain-of custody form. A chain-of-custody form must accompany all samples from collection through laboratory analysis. The analytical laboratory will return the completed chain-of-custody form to the Facility and it will become part of the permanent sampling record documenting the sampling efforts.

5.5.3.3 Sample Labels and Custody Seals

A sample label will be affixed to each sample container. The sample label will include the following information:

- A unique sample identification number;
- Name of the sample collector;
- Date and time of collection;
- Type of preservatives used, if any; and
- Location from which the sample was collected.

A custody seal will be placed on each sample container to detect unauthorized tampering with the samples. These labels must be initialed, dated, and affixed by the sample collector in such a manner that it is necessary to break the seal to open the container.

5.5.3.4 Sample Logbook

All pertinent information on the sampling effort must be recorded in a bound logbook. Information must be recorded in ink and any cross-outs must be made with a single line with the change initialed and dated by the author. The sample logbook will include the following information:

- The sample location;
- Suspected composition;
- Sample identification number;
- Volume/mass of sample taken;
- Purpose of sampling;
- Description of sample point and sampling methodology;
- Date and time of collection;
- Name of the sample collector;
- Sample destination and how it will be transported;
- Observations; and
- Name(s) of personnel responsible for the observations.

5.5.3.5 Sample Handling, Preservation, and Storage

Samples will be collected and containerized in appropriate pre-cleaned sample containers. The requirements in *SW-846* (EPA, 1986) for sample containers, preservation techniques, and holding times will be applicable. Samples that require cooling to 4 degrees Celsius will be placed in a cooler with ice or ice gel or in a refrigerator immediately upon collection.

5.5.4 Packaging and Transportation of Samples

All packaging and transportation activities will meet safety expectations, QA requirements, DOE Orders, and relevant local, state, and federal laws (including 10 CFR and 49 CFR). Appropriate Facility documents establish the requirements for packaging design, testing, acquisition, acceptance, use, maintenance, and decommissioning and for on-site, intra-site, and off-site shipment preparation and transportation of general commodities, hazardous materials, substances, wastes, and defense program materials.

Off-site transportation of samples will occur via private, contract, or common motor carrier, air carrier, or freight. All off-site transportation will be processed through the Facility packaging and organization unless the shipper is specifically authorized through formal documentation by the packaging and transportation organization to independently tender shipments to common motor or air carriers.

SW-846 methods 6010c or 6020 Replace 7000B and 7010 As per stas.

5.5.5 Sample Analysis Requirements

Samples will be analyzed for lead by an independent laboratory using the latest revision of SW-846 Methods 7000B and 7010. A field blank and field duplicate sample will also be collected to ensure compliance with QA/QC procedures defined by the latest revision of "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (*SW-846*) (EPA, 1986).

5.6 Analytical Laboratory Requirements

The analytical laboratory will perform detailed qualitative and quantitative chemical analyses will have:

- A documented comprehensive QA/QC program;
- Technical analytical expertise;
- A document control and records management plan; and
- The capability to perform data reduction, validation, and reporting.

5.6.1 Data Reporting Requirements

Analytical results will include all pertinent information about the condition and appearance of the sample as-received. Analytical reports will include:

- A summary of analytical results for each sample;
- Results from QC samples such as blanks, spikes, and calibrations;
- Reference to standard methods or a detailed description of analytical procedures; and
- Raw data printouts for comparison with summaries.

The laboratory will describe sample preparations that occur during the analysis in sufficient detail so that the data user can understand how the sample was analyzed.

5.7 Waste Management

All waste generated during closure activities for the temporary authorization work will be controlled, handled, characterized, and disposed of in accordance with Permit Section 9.4.5, Permit Attachment C (*Waste Analysis Plan*), and Facility waste management procedures.

5.8 Closure Report

Within 60 days of completion of closure activities at TA-54, Area G, building 1028 and TA-16, WETF, Rooms 116 and 122, a report will be prepared and submitted to the Department in accordance with Permit Section 9.5.