



**Department of Energy**  
Savannah River Operations Office  
P.O. Box A  
Aiken, South Carolina 29802

MAY 23 2019

Ms. Susan B. Fulmer, P. G., Manager  
Federal Remediation Section  
Division of Site Assessment, Remediation and Revitalization  
Bureau of Land and Waste Management  
South Carolina Department of Health and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Mr. Jon Richards  
Acting Savannah River Site Remedial Project Manager  
Superfund Division  
U. S. Environmental Protection Agency, Region 4  
61 Forsyth Street, SW  
Atlanta, Georgia 30303

Dear Ms. Fulmer and Mr. Richards:

**SUBJECT:** Facility Decommissioning Evaluation, Building 690-N, Process Heat Exchanger Repair Facility (G-FDE-N-00013, Revision 2, May 2019), Savannah River Site's Responses to Regulatory Comments on the Revision 1 Document, Human Health Risk Screening Evaluation for 690-N Ford Building (U) (SDD-2019-00030, April 2019), and the Characterization Report for Building 690-N (Ford Building) and Ancillary Equipment and Facilities (SDD-2014-00054, Revision 1, August 2014)

The U. S. Department of Energy (DOE) is submitting the subject Facility Decommissioning Evaluation (FDE) for your review according to the Memorandum of Agreement for Achieving an Accelerated Cleanup Vision for the Savannah River Site along with Savannah River Site's responses to the regulatory comments received on the Revision 1 document. The South Carolina Department of Health and Environmental Control (SCDHEC) and the U.S. Environmental Protection Agency (EPA) comments were received on the Revision 1 document on October 20, 2009 and October 13, 2009, respectively (ARF Numbers: 16369 and 16384). The Human Health Risk Screening Evaluation for 690-N Ford Building (U) (SDD-2019-00030, April 2019) and the Characterization Report for Building 690-N (Ford Building) and Ancillary Equipment and Facilities (SDD-2014-00054, Revision 1, August 2014) are being provided to aid in your review of the FDE.

A Core Team comment resolution meeting to discuss regulatory comments on the Revision 1 FDE was held on April 9, 2019 in Aiken, SC (see Enclosure 6 for meeting presentation). The meeting provided the opportunity for Savannah River Site (SRS) to present the current planning strategy to the deactivation, decommissioning, and final closure of the 690-N Facility and surrounding area. As part of this meeting, SRS addressed regulatory concerns specific to the characterization status of the building and presented a strategic closure approach for the building. The comment responses and the FDE incorporate the conclusions presented in the attached human health risk screening evaluation along with the agreement that the Integrated Sampling Model will be followed for this work.

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Ms. Susan Fulmer  
Mr. Jon Richards

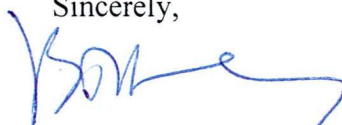
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As agreed to at the April 9, 2019 meeting, the Integrated Sampling Model is the selected decommissioning model for Building 690-N, Process Heat Exchanger Repair Facility. Since this facility will be decommissioned using the Integrated Sampling Model, it may warrant response action during the area closure process and will be included on Appendix C.4 of the Federal Facility Agreement upon completion of decommissioning and the approval of the Decommissioning Project Final Report. DOE is submitting the FDE according to the FDE Protocol. An overview and walk down are not currently scheduled for the facility. Please contact DOE if your agencies are interested in an overview and field visit.

Hard copies and compact disks are enclosed according to the agreed upon distribution. Please submit your concurrence and/or comments within thirty (30) days of receipt. The effort and time that the SCDHEC and EPA have given on the subject report are greatly appreciated.

Questions from you or your staff may be directed to me at (803) 952-8365.

Sincerely,



Brian T. Hennessey  
SRS Remedial Project Manager  
Infrastructure and Area Completion Division

IACD-19-149

Enclosures:

1. Facility Decommissioning Evaluation, Building 690-N, Process Heat Exchanger Repair Facility (G-FDE-N-00013, Revision 2, May 2019)
2. SRS Responses to SCDHEC Comments on the Facility Decommissioning Evaluation (FDE), Process Heat Exchanger Repair Facility (Ford Building), Building 690-N, G-FDE-N-00013, Revision 1, dated August 7, 2009
3. SRS Responses to EPA Comments on the Facility Decommissioning Evaluation (FDE) Reports for Building 690-N, Building 728-N, and Building 710-B
4. Human Health Risk Screening Evaluation for 690-N Ford Building (U) (SDD-2019-00030, April 2019)
5. Characterization Report for Building 690-N (Ford Building) and Ancillary Equipment and Facilities (SDD-2014-00054, Revision 1, August 2014)
6. April 9, 2019 Meeting Presentation: Process Heat Exchanger Repair Facility (690-N) Facility Decommissioning Evaluation (FDE)

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Mr. Jon Richards

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cc w/o encl:

G. K. Taylor, SCDHEC - Columbia

D. Scaturo, SCDHEC - Columbia

S. French, SCDHEC - Columbia

M. Reece, SCDHEC - Columbia

G. N. O'Quinn, SCDHEC – Aiken Environmental Affairs Office

B. Cameron, SCDHEC – Aiken Environmental Affairs Office

R. H. Pope, EPA - Atlanta

cc w/encl:

K. L. Beatty, SCDHEC – Aiken Environmental Affairs Office

**SRS Responses to SCDHEC Comments on the  
Facility Decommissioning Evaluation (FDE), Process Heat Exchanger Repair Facility  
(Ford Building), Building 690-N, G-FDE-N-00013, Revision 1, dated August 7, 2009**

**Comments Received October 20, 2009**

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**Note: A Core Team comment resolution meeting was held on April 9, 2019 in Aiken, SC. The meeting provided the opportunity for SRS to present the current planning strategy to the deactivation, decommissioning, and the final closure of the 690-N Facility and surrounding area. As part of this meeting, discussions specific to the characterization status of the building as commented on by the regulators as part of the FDE review were completed with an agreed upon approach to close the building. These comment responses have been revised to reflect the most current and comprehensive information available to the project team to support the project planning phase with an agreement that the Integrated Sampling Model will be followed for this work. The following comment responses and the Revision 2 FDE have been revised in accordance with the agreements obtained at the April 9, 2019 meeting.**

**General Comments**

1. Building 690-N and the Excess Equipment Yard are inadequately characterized. Most of Building 690-N is a controlled area with radiological contamination of unknown extent and magnitude, but with the potential for widespread contamination (walls, ceiling, floor). Soils underneath the building's concrete pad may be contaminated with polychlorinated biphenyls (PCBs). Contaminated reactor heat exchangers lie on a concrete pad in the outdoor Excess Equipment Yard and there is the potential for contaminated media, but characterization information has not been provided. Overall, the information provided in the FDE does not support the use of the Integrated Sampling Model.

**Response: Clarification.**

**Extensive characterization results, including sampling in 2014, will be provided with the Revision 2 FDE. These characterization results are documented and evaluated within the *Characterization Report Building 690-N (Ford Building) and Ancillary Equipment and Facilities*, SDD-2014-00054, Rev.1 and the *Human Health Risk Screening Evaluation for 690-N Ford Building*, SDD-2019-00030. The Revision 2 FDE will include updated discussion that demonstrate the applicability of the Integrated Sampling Model for Building 690-N and associated facilities.**

**As part of deactivation of the Excess Equipment Yard (Building 745-N), the concrete pad along with the reactor heat exchangers were removed and dispositioned offsite. For this reason they are not within the Building 690-N scope of the project. The Revision 2 FDE will be revised to provide justification for this determination.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

**SRS Responses to SCDHEC Comments on the  
Facility Decommissioning Evaluation (FDE), Process Heat Exchanger Repair Facility  
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2. SCDHEC would like the Department of Energy (DOE) to continue the practice of providing the Environmental Protection Agency (EPA) and SCDHEC the opportunity to request authoritative sample locations for sites decommissioned via the Integrated Sampling Model. That opportunity has not been provided.

**Response: Agree**

**SRS employs sampling and analysis at various stages of deactivation and decommissioning for ISM facilities. This is to confirm the correct model is selected, to verify D&D activities are conducted safely and comprehensively, and to verify that decommissioning goals are achieved. Whenever possible, SRS will engage SCDHEC and EPA in the selection of sample locations. In addition, the DPFR affords the regulators the ability to review sampling results, corroborate decommissioning goals are attained, and that the Area Completion Process can proceed.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

3. In future FDEs, please identify any facility remnants other than concrete pads (e.g. underground process lines, underground storage tanks) that the DOE intends to leave in place for evaluation during the Area Closure Process.

**Response: Agree with Clarification**

**SRS will describe components of facilities and/or ancillary facilities that are left in place for evaluation during the Area Completion Process. The Scope section of the Rev. 2 FDE will be revised as follows:**

**“This Evaluation has been prepared in accordance with requirements found in Facility Disposition Manual 1C, Procedure 502, “Preparing Decommissioning Decision Documents” (Reference 2). The original (Revision 0 and 1) scope of this evaluation included the following building and ancillary structures:**

- **Building 690-N, Process Heat Exchanger Repair Facility**
- **13.8 kV Substation 652-44N, remnants**
- **Excess Equipment Yard 745-N, including contents**
- **Fuel Oil Tank Concrete Containment Dike**

**As a function of the FFA Appendix E, SRS will address the three exterior remnants (13.8 kV Substation (652-44N), 745-N soils, and the Fuel Oil Tank Containment Dike) as a component of the associated OU [referred to as: ECODS N-1, Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (Ford Building) Operable**

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**Unit (OU)]. This OU is scheduled for a characterization field start in FY2020. The field start will be preceded by pre-workplan characterization initiated in FY2019.”**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

4. FDEs must state whether concrete pads have any stains or other evidence of spills; have floor drains, cracks or other penetrations; have pits, sumps or trenches. Not addressing any of these items will generate a comment.

**Response: Agree**

**Rev. 2 of the FDE’s Process History section will be revised to read:**

**“The heat exchanger maintenance repair work generated wastewater contaminated with low levels of radioactivity and trace quantities of non-radioactive organic and inorganic compounds. Repair workers sent the wastewater to a 6,000-gallon underground retention tank adjacent to the Ford Building and the wastewater was analyzed for radionuclides. Depending on the results, the wastewater was either released to the Ford Building Seepage Basin through an underground process sewer pipeline or transferred to other SRS operations for proper disposal. In 1998, a project was undertaken by SRS to remediate the associated retention tank, pumping station, process sewer lines and seepage basin of the Ford Building (see Reference 7). These remediated equipment/components are not within the scope of this FDE. Building 690-N has fourteen (14) process sewer drains in the shop area that have been plugged with concrete. When the building was modified for heat exchanger maintenance, the floor drain piping was installed on top of the 4” slab and a second 8” thick concrete floor slab was poured atop the 4” slab, encapsulating the process sewer lines within the 8” slab. Piping from the plugged floor drains to the perimeter of the building slab, near its southeast corner, remains sandwiched between the building’s double floor slab. Piping beyond this point was removed by the 1998 project.**

**The shop area also contains a single 1’-6” X 1’-6” X 1’-0” sump located near the east end of the shop area, between the two sets of railroad tracks at the radial drill.**

**The sanitary system has been isolated, but fixtures are still installed.**

**A visual inspection of the building floor was performed and there were no visible cracks that appeared to penetrate the slab. Note that the exchanger repair shop has several epoxy coatings applied to the floor sealing residual PCB and radioactive contamination. These coatings may hide cracks in the concrete floor.**

**A visual inspection of the tank containment dike was performed and there were no visible cracks that appear to penetrate the slab. There is no evidence of spills (e.g., oil stains);**

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however, dirt and water stains are present. There were no visible stains around the tank containment perimeter.

An important part of the characterization portion of this evaluation is a historical review of spills/releases to the environment. This review includes a review of the Occurrence Reporting and Processing System/Site Item Reportability and Issue Management (ORPS/SIRIM) database (Reference 11) conducted from the effective date of the Federal Facility Agreement (FFA), August 16, 1993 to present, and a review of the FFA (Reference 4). The FFA serves as a review of releases/spills to the environment prior to August 16, 1993. Neither the ORPS/SIRIM database nor the FFA listed a release/spill for Building 690-N."

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

Specific Comments

1. Please state whether Building 690-N has any pits, sumps or trenches.

**Response: Agree**

Building 690-N has a single 1'-6" X 1'-6" X 1'-0" deep sump located near the east end of the shop area, between the two sets of railroad tracks, at the radial drill. A description of the sump will be added to the Facility Description and Process History sections in the revised FDE.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

2. There was limited visibility of the Excess Equipment Yard's concrete pad during the 8/25/09 walkdown. Is there vegetation growing through the pad?

**Response: Clarification**

The Excess Equipment Yard concrete slab was removed in 2011-2012 during the American Recovery and Reinvestment Act (ARRA) deactivation project.

No change to the document necessary.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

**SRS Responses to SCDHEC Comments on the  
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3. Please confirm that the reactor heat exchangers and the deionizer trailer in the Excess Equipment Yard are all situated on a continuous concrete pad.

**Response: Agree.**

**The Excess Equipment Yard concrete slab was removed in 2011-2012 during the American Recovery and Reinvestment Act (ARRA) deactivation project and the deionizer trailer was relocated to the opposite side of the Ford Building. Current site conditions will be discussed in the Revision 2 FDE.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

4. What is the anticipated timeframe for the results of the characterization studies being performed on the Excess Equipment Yard?

**Response: Clarification.**

**Characterization studies of the concrete slab and soil beneath the 745-N Excess Equipment Yard were performed in Fall of 2014 through late Summer of 2015. The characterization is outside the scope of this FDE and will be included in the associated OU [referred to as: ECODS N-1, Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (Ford Building) Operable Unit (OU)]. The FDE will be revised to discuss current site conditions.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

5. The FDE states that the forty-nine contaminated reactor heat exchangers and the deionizer trailer currently located in the Excess Equipment Yard will be disposed in accordance with SRS procedures and State and Federal Regulations. Please state the anticipated disposal options.

**Response: Clarification.**

**Since issuance of the Revision 0 FDE, all forty-nine heat exchangers have been disposed of in the E-area low level waste facility. The FDE will be revised to discuss disposition of the heat exchangers.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

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6. In the decommissioning Project Final Report (DPFR) or Removal Action Report issued for this facility, please describe the integrity of the concrete pads for Building 690-N, the 13.8 kV Substation and the Excess Equipment Yard, and state if there is any staining.

**Response: Agree**

**Integrity of the 690-N concrete slab will be documented in the DPFR. The 745-N slab (removed in facility deactivation) and the remnant 652-44N transformer pad are no longer within the scope of the 690-N FDE and will be included with the associated OU [referred to as: ECODS N-1, Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (Ford Building) Operable Unit (OU)] closure.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

7. The FDE states that both fission and activation products are likely contaminants for Building 690-N and the Excess Equipment Yard. Given the operational history of the facility and SRS reactors, and utilizing the characterization results of the previous Federal Facility Agreement (FFA) remedial investigations for the Ford Building Waste Unit & the Ford Building Seepage Basin, please provide a list of potential contaminants, both radiological and non-radiological, for Building 690-N and the Excess Equipment Yard.

**Response: Clarification**

**Potential radiological contamination in the 690-N Building was due to the repair of leaking reactor process heat exchangers that had been exposed to process water containing fission products (plutonium-239, strontium-90, and cesium-137), activation products (cobalt-60), and tritium. Potential PCB contamination was due to PCB contaminated oil spills, resulting from machining operations for heat exchanger maintenance repair work. Enhanced characterization performed in 2014 also sampled and analyzed for RCRA metals (arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury). As indicated by the enhanced characterization results provided within the *Characterization Report Building 690-N (Ford Building) and Ancillary Equipment and Facilities*, SDD-2014-00054, Rev. 1, August, 18, 2014 (Reference 10), minimal radiological or RCRA hazardous contamination is present in the concrete floor slab, soils below the concrete floor slab, and the steel hut containment walls of the 690-N facility or ancillary structure. PCB's are present in the concrete slab at levels that warrant further evaluation and will be addressed appropriately.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

**SRS Responses to SCDHEC Comments on the  
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8. The Department is concerned that a release could have occurred from the process sewer lines underneath Building 690-N prior to the lines being plugged in the 1990's. Please state how this concern will be addressed.

**Response: Clarification**

Piping from the process sewer drains was embedded in the concrete floor slab. Prior to conversion of the facility for heat exchanger maintenance repair/rework, the building's shop area had a 4" thick concrete floor slab. When the building was modified for heat exchanger maintenance, the floor drain piping was installed on top of the 4" slab and a second 8" thick concrete floor slab was poured atop the 4" slab, encapsulating the process sewer lines within the 8" concrete slab. As indicated by the enhanced characterization results provided within the *Characterization Report Building 690-N (Ford Building) and Ancillary Equipment and Facilities*, SDD-2014-00054, Rev. 1, August 18, 2014, minimal radiological or RCRA hazardous contamination is present in the concrete floor slab and the soils below the concrete floor slab. PCB's are present in the concrete slab at levels that warrant further evaluation; however, the PCB's are not associated with process sewer line activity and will be addressed accordingly. These results are not indicative of any process sewer line leakage having occurred. The Process History section will be revised to include a description of the process sewer drain configuration.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

9. Did the 13.8 kV Substation have a transformer or capacitor? If so, please address the possibility of PCBs existing on or around the concrete pad.

**Response: Clarification**

The substation contained a transformer. SRS will address the characterization of the 13.8 kV Substation remnants during characterization and remediation of the associated OU [referred to as: ECODS N-1, Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (Ford Building) Operable Unit (OU)]. This OU is scheduled for a characterization field start in FY2020. The field start will be preceded by pre-workplan characterization initiated in FY2019. Please see the response to General Comment 3.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

**SRS Responses to SCDHEC Comments on the  
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10. Please state the location/previous location of the supply line for the pre-existing fuel oil tank.

**Response: Clarification**

The pre-existing fuel oil tank was located south of Building 690-N. The fuel oil supply line came off the tank above grade and crossed the tank containment dike wall, where it then turned down and was routed northward underground to the south side of Building 690-N. The supply line then turned eastward just outside the building slab. A ¾" line branched off at building Column Line 6 and was routed up and above grade into the building to the existing furnace. The 1" main line continued underground just outside the building slab to a point 11'-2 ½" west of Column Line 4, where it was routed up above grade through an isolation valve and back underground. The line continued underground another 4'-6" then turned north to the packaged water boiler, where it came up through the slab to feed the boiler. The fuel oil supply line was removed in 2006 in conjunction with the fuel oil tank.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

11. For Building 690-N, there are several radiologically contaminated HEPA filter housing units outside the building, adjacent to an external wall, and next to the soil surface. Decommissioning of the filters, housing units and external ductwork will obviously take place outside the building. Will the soils in the area be radiologically surveyed after decommissioning?

**Response: Clarification**

"The HEPA equipment was removed in 2012 as part of an American Recovery and Reinvestment Act (ARRA) deactivation project. The ground in the area was covered with plastic and huts erected to contain any contamination. HEPA Housings, filters, and ductwork were loaded into Sealand containers and disposed of in the SRS Solid Waste Burial Ground (E-Area). Following removal of the HEPA Housings, the curbed concrete containment pads (i.e., sumps) beneath them were sampled and found to be slightly contaminated. The curbed containment pads and sumps were filled with concrete and each capped with a reinforced concrete slab. Radiological monitoring and sampling throughout the removal iteration showed non-detect readings except on the concrete of the curbed sumps which are now filled in and covered with concrete. No additional decommissioning activity is anticipated. A description of the HEPA systems' end-state, including the preceding quoted text, will be added to the Facility Description section in the revised FDE.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

**SRS Responses to EPA Comments on the  
Facility Decommissioning Evaluation (FDE) Reports for  
Building 690-N, Building 728-N, and Building 710-B**

**Comments Received October 13, 2009**

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**Note: A Core Team comment resolution meeting to address regulator comments on the Revision 1 FDE (see below) was held on April 9, 2019 in Aiken, SC. The meeting provided the opportunity for SRS to present the current planning strategy to the deactivation, decommissioning, and final closure of the 690-N Facility and surrounding area. As part of this meeting, SRS addressed regulator concerns specific to the characterization status of the building and presented a strategic closure plan for the cited buildings. These comment responses incorporate the most current and comprehensive information available to the project team to support the project planning phase and include an agreement that the Integrated Sampling Model will be followed for this work. In addition, the comment responses and the Revision 2 FDE will reflect the agreements obtained at the April 9, 2019 meeting.**

**GENERAL COMMENTS**

1. The FDE does not contain adequate site characterization information to determine which of the decommissioning models is appropriate for the site. The FDE is unacceptably vague with respect to the levels and types of radiation and/or PCB contaminant present, and the potential for contaminated media beneath and/or around the building slabs. Until this information is provided, EPA cannot make a decision on which of the decommissioning models is appropriate (i.e., IS model vs the EE/CA model).

**Response: Agree.**

**Characterization results are provided in support of the Revision 2 FDE submittal. Results are documented and summarized within the Characterization Report Building 690-N (Ford Building) and Ancillary Equipment and Facilities, SDD-2014-00054, Rev.1 and the Human Health Risk Screening Evaluation for 690-N Ford Building, SDD-2019-00030. The 745-N concrete pad along with the reactor heat exchangers have been removed from the scope of the project. The determination of scope and selection of the appropriate decommissioning model (Integrated Sampling model) are detailed in the revised FDE.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

2. Based on the information provided it appears that there is enough contamination present at this site to warrant some level of public involvement in determining the appropriate path forward. Therefore, EPA is requesting that DOE provide a D & D briefing for the CAB on this site so that the public has an opportunity to provide input regarding the disposition of the site.

**SRS Responses to EPA Comments on the  
Facility Decommissioning Evaluation (FDE) Reports for  
Building 690-N, Building 728-N, and Building 710-B**

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**Response: Clarification.**

As indicated by the enhanced characterization results as documented in the *Characterization Report Building 690-N (Ford Building) and Ancillary Equipment and Facilities, SDD-2014-00054, Rev. 1, August 18, 2014*, the majority of the facility does not represent a contamination concern. However, PCBs are present in the concrete floor slab at levels that warrant further evaluation. Based on the FDE Part 2 Evaluation checklist and the sample data in the 2014 characterization report, SRS believes that the Integrated Sampling Model is the appropriate model for decommissioning of Building 690-N, excluding the building slab. SRS proposes to proceed with the decommissioning of Building 690-N by installing a protective cover over the slab prior to demolition, which will prohibit disturbance and potential spread of PCB contamination during demolition and removal activities. The building slab (with the appropriate remnants) will be addressed under the remedial action for Building 690-N scheduled to start in December of 2024 or an appropriate CERCLA Removal Action which will include public participation. This approach will physically and administratively separate the slab from the rest of the structure, allowing SRS to take advantage of increased near-term program funding to remove the structure as well as preserving the opportunity to evaluate alternatives for final disposition of the building remnants. The Facility Decommissioning Evaluation Building 690-N, Process Heat Exchanger Repair Facility, Revision 1 document will be revised as an Integrated Sampling Model and incorporate the enhanced characterization and summarize the results that demonstrates there is no contamination concern, other than what is associated with the slab. Specifically, the Scope, Process History, and Summary of Existing Characterization sections of the FDE will be revised.

DOE does not believe the minimal contamination in 690-N warrants public concern or a briefing to the CAB on its decommissioning.

Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)

**SPECIFIC COMMENTS**

1. **Scope Section, Bottom of Page 3** - The HEPA Filter System is not listed at the bottom of page 3 as being within the scope of this D&D project. Nor does the FDE specifically address the removal/disposition of the radiologically contaminated HEPA filter system (shown in Fig. 6 on page 11). Is the HEPA system on a separate concrete pad or is the pad contiguous with the Bldg. 690-N concrete slab? Assuming the HEPA filter system is to be included in this action, please include it in the Scope Section on page 3 and describe the planned disposition for the equipment and any sampling that is to be done.

**SRS Responses to EPA Comments on the  
Facility Decommissioning Evaluation (FDE) Reports for  
Building 690-N, Building 728-N, and Building 710-B**

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**Response: Clarification.**

HEPA systems were on separate foundations, located approximately 3' south of the main Building 690-N slab. "The HEPA equipment was removed in 2012 as part of an American Recovery and Reinvestment Act (ARRA) deactivation project." The ground in the area was covered with plastic and huts erected to contain any contamination. HEPA Housings, filters, and ductwork were loaded into Sealand containers and disposed of in the SRS Solid Waste Burial Ground (E-Area). Following removal of the HEPA Housings, the curbed concrete containment pads (i.e., sumps) beneath them were sampled and found to be slightly contaminated. "The curbed containment pads and sumps were filled with concrete and each capped with a reinforced concrete slab. Radiological monitoring and sampling throughout the removal iteration showed non-detect readings, except on the concrete of the curbed sumps which are now filled in and covered with concrete." No additional decommissioning activity is anticipated. A description of the HEPA systems' end-state, including the preceding quoted text, will be added to the Facility Description section in the revised FDE.

**Responsible Party:** Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)

2. **Facility Description Section, Page 4** - Indicates that an inner shell and HEPA filter system was installed at 690-N in the early 1980's in order to provide a slight negative pressure in the repair shop area to prevent contaminants from escaping from the building. The third paragraph in this section indicates that the majority of the heat exchanger repair/rework activity took place between early 1960 and early 1970, prior to installation of the inner shell and HEPA filter system. How was the building ventilated prior to installation of the inner shell and HEPA filter system? Is the large eve vent shown in Figure 1 on Page 6 an air exhaust or intake vent that was used to ventilate the building prior the HEPA filter system? Given that there is apparently radiological contamination of the inside surfaces of this building (floors, walls and ceiling), there is a concern that there could be radiological contamination of environmental media (e.g., soils) outside the building as a result of ventilation of the building prior to the installation of the HEPA filter system. Please address this concern.

**Response: Clarification.**

Dates shown in the Revision 1 FDE were inadvertently transposed. Building 690-N was used during the 1950s exclusively for testing of clean Ford Company-manufactured motor control packages for control rod drive mechanisms prior to installation in SRS reactors. During the early 1960s, the SRS reactors operated at higher power levels and failure (i.e., leakage) of heat exchangers prompted conversion of Building 690-N for heat exchanger maintenance repair/rework. The building's inner containment shell and HEPA Filter System were installed in the early to mid-1960s to prevent radiological contamination of

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the clean portions of the building and environmental media outside the facility. The building was extended in 1966, and a second HEPA Filter System was installed. This mission continued until the early 1980s when procurement of new heat exchangers for the SRS reactors replaced the need for maintenance repair/rework and Building 690-N was used to perform final assembly and testing of new, clean heat exchangers.

For the remainder of the 1980s, the building was used to store equipment and miscellaneous supplies. During the early 1990s, a minor leak in a heat exchanger at K-Reactor necessitated the use of Building 690-N as a heat exchanger repair facility for about six months. Following the K-Reactor event, Building 690-N was used to store excess chemically and/or radiologically contaminated equipment in waste containers (e.g., Sealands and/or bagged/wrapped in plastic). Cleanup activities that began in 1998 prompted the removal of the stored excess equipment.

Prior to installation of the inner shell and HEPA Filter Systems, Building 690-N was a "clean" facility, ventilated in summer months by eave fans E.P. 20901-A (East End) and E.P. 20901-B (West End). Exhaust fans were blocked off during cold months of the year. When the building was modified for its heat exchanger maintenance repair mission, the West eave fan was relocated to the new West wall. Both fans continued to ventilate hot air from the attic and other clean portions of the main building until the building was shut down.

For clarity, text will be added to the Facility Description section in the Revision 2 FDE to describe the ventilation and HEPA filtration of Building 690-N.

**Responsible Party:** Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)

3. **Process History Section, Page 12** - The first sentence in this section states that record reviews, walk downs and interviews indicate that no chemical or radioactive processes were performed in this building. The "Chemical Process" and "Radioactive Process" subsection boxes that follow also show everything as "Not Applicable". This is somewhat confusing considering that there is known radiological and chemical contamination in the building. Obviously, the terminology (i.e., processes) pertains to something other than the processing/handling of equipment that has radiological or chemical contamination. EPA suggests that a definition for radioactive and/or chemical processes be provided for clarity.

**Response:** Agree.

"Process" is considered to mean "chemical, mechanical, or electrical energy or interaction performed to change the state of an input material or to produce a new output product". The Building 690-N heat exchanger repairs/rework constitute "maintenance" versus a

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“process”. For clarity, the Process History section of the FDE will be revised as follows: “Review of records, walkdowns and interviews indicate that no chemical or radioactive processes were performed in this building (i.e., no chemical, mechanical, or electrical energy or interaction was performed to change the state of an input material or to produce a new output product).”

**Responsible Party:** Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)

- 4. Process History Section, Page 12** - This section indicates that the process sewer drains in Building 690-N (shown in Figure 3 on page 8) have been plugged with concrete. During the D&D briefing and walk down on this site a question was raised which DOE was unable to answer regarding whether the piping leading from the process sewer drains to the temporary holding tank were in or 'underneath the concrete building slab. Please provide answer to this question:

**Response:** Agree.

Piping from the process sewer drains was embedded in the concrete floor slab and does not extend and/or run beneath the concrete floor slab. Prior to conversion of the facility for heat exchanger maintenance repair/rework, the building's shop area had a 4" thick concrete floor slab. When the building was modified for heat exchanger maintenance, the floor drain piping was installed on top of the 4" slab and a second 8" thick concrete floor slab was poured on top of the 4" slab, encapsulating the process sewer lines within the 8" concrete slab. The Process History section will be revised to include a description of process sewer drain configuration.

**Responsible Party:** Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)

- 5. Process History Section, Page 12** - The substation area/pad is discussed in the next to last paragraph on page 12. The description indicates that there is no evidence of spills (e.g., oil stains) on the pad, although the pad could not be fully inspected due to dirt partially covering the pad. From the photograph in Figure 4, on page 9 there appears to be some vegetation present inside the fenced area. Is there some bare ground around the concrete pad but inside the fenced area? If so, have the soils and concrete pad in this area been tested for PCBs? The concern is the possibility that electrical equipment (e.g., transformers) could have been stored in this area. Please investigate and advise.

**Response:** Clarification.

SRS will describe components of facilities and/or ancillary facilities that are left in place for evaluation during the Area Completion Process. In the case of the Building 690-N FDE, SRS proposes to address the 13.8 kV Substation Remnants, 652-44N, near the 690-N facility during

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characterization and remediation of the associated OU [referred to as: ECODS N-1, Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (Ford Building) Operable Unit (OU)]. The Scope section of the Rev. 2 FDE will be revised as follows:

“This Evaluation has been prepared in accordance with requirements found in Facility Disposition Manual 1C, Procedure 502, “Preparing Decommissioning Decision Documents” (Reference 2). The original (Revision 0 and 1) scope of this evaluation included the following building and ancillary structures:

- Building 690-N, Process Heat Exchanger Repair Facility
- 13.8 kV Substation 652-44N, remnants
- Excess Equipment Yard 745-N, including contents
- Fuel Oil Tank Concrete Containment Dike

As a function of the approved Fiscal year 2014 FFA Appendix E, which included separation of waste units from their respective Area Operable Units (OU) to meet expectations provided by SCDHEC and EPA in the approval of the FY2013 Appendix E, SRS will address the 13.8 kV Substation Remnants (652-44N) as a component of the associated OU [referred to as: ECODS N-1, Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (Ford Building) Operable Unit (OU)]. This OU is scheduled for a characterization field start in FY2020. The field start will be preceded by pre-workplan characterization initiated in FY2019.

The 745-N Excess Equipment Yard, including the 49 heat exchangers and Deionizer Trailer, are no longer part of the Building 690-N FDE scope. In 2011 and 2012, the 49 heat exchangers were characterized and disposed of in the SRS Solid Waste Burial Ground (E-Area) as part of an American Recovery and Reinvestment Act (ARRA) deactivation project. During the loading of the 49 heat exchangers for disposal, the concrete slab cracked under the combined weight of the large crane and heat exchangers. The 745-N concrete slab was sampled and found to have some slight surface contamination due to condensation leakage from heat exchangers (particularly Exchanger #3). The slab was removed to eliminate any risk of contamination reaching the soil, and the soil sampled and found to be non-contaminated. Results of the soil sampling are documented in the *745-N Survey for Rollback of CA*, RSLs-DDSG-M-20150713-1 (Reference 8). Under slab piping (i.e., sanitary sewer, domestic water, and fire water) was also removed and the area covered with top soil and seeded.”

Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)

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6. **Process History Section, Top of Page 13** – The 745-N Excess Equipment Yard is discussed here and on page 5. The text indicates that the 49 contaminated reactor heat exchangers and one Deionization Trailer will be removed and properly disposed of but there is no mention of sampling of the underlying concrete pad. EPA is concerned about the possibility that there could have been leakage of radiological contaminated liquids from the heat exchangers onto the underlying concrete pad and surrounding ground surface. Please provide an explanation as to how this issue will be addressed.

**Response: Agree.**

See the response to EPA Specific Comment 5.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

7. **Summary of Existing Characterization Section, Bottom of Page 13** - Indicates that PCB's remain underneath the floor coating at Bldg. 690-N, and additional cleanup of the slab and potentially the soils under the slab will be conducted as part of the decommissioning activities. Typically, if decommissioning activities involve the remediation/removal of environmental media (e.g., soil) they are done using the EE/CA Model rather than the Integrated Sampling Model that is proposed for Bldg. 690-N. Please explain why DOE believes the Integrated Sampling Model rather than the EE/CA Model is most appropriate for this proposed D&D action.

**Response: Clarification.**

**The FDE will be updated to describe decommissioning activities that do not include remediation or removal of environmental media. Please see responses to EPA General Comments 1 and 2.**

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

**FDE FOR BUILDING 728-N, SHIPPING CASK AND RAILROAD CAR REPAIR FACILITY,  
(G-FDE-N-00014, REV 1, AUGUST 13, 2009)**

1. **Scope Section, Bottom of Page 3**- The HEPA Filter System is not listed at the bottom of page 3 as being within the scope of this D&D project. Nor does the FDE specifically address the removal/disposition of the radiologically contaminated HEPA filter system (shown in Figures 1 & 3 on pages 5 & 7). Is the HEPA system on a separate concrete pad or is the pad contiguous with the Bldg. 728-N concrete slab? Assuming the HEPA filter system is to be included in this action, please include it in the Scope Section on page 3 and describe the planned disposition for the equipment

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and any sampling that is to be done.

**Response: Clarification.**

Please note that comment responses for the FDE for Building 728-N (G-FDE-N-00014) were previously submitted in January 2010. The Integrated Sampling Model was approved in 2010 for decommissioning of Building 728-N. Additional clarification: The HEPA Filter system shown in Figures 1 & 3 on pages 5 & 7 of the FDE, G-FDE-N-00014, is not within the scope of the 728-N decommissioning project. The HEPA system was removed and dispositioned as excess equipment under the building's current Surveillance and Maintenance Program. Surveys of the remaining HEPA system pad(s) will be included in the 728-N Final Verification survey.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

2. **Process History Section, Page 8** - The first sentence in this section states that record reviews, walk downs and interviews indicate that no chemical or radioactive processes were performed in this building. The "Chemical Process" and "Radioactive Process" subsection boxes that follow also show everything as "Not Applicable". This is somewhat confusing considering that there is known radiological contamination in the building. Obviously the terminology (i.e., processes) pertains to something other than the processing/handling of equipment that has radiological contamination. EPA suggests that a definition for radioactive processes be provided for clarity.

**Response: Clarification.**

Please note that comment responses for the FDE for Building 728-N (G-FDE-N-00014) were previously submitted in January 2010. The Integrated Sampling Model was approved in 2010 for decommissioning of Building 728-N.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

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- 3. Heating System for Bldg. 728-N** - During the D&D meeting a question was raised as to how Bldg. 728-N was heated. DOE was unsure and committed to investigate. The concern is that many other buildings at SRS had fuel oil storage tanks to supply heaters and no UST or above ground tank containment area is shown for this building. Please report the findings of your investigation on this issue.

**Response: Clarification.**

Please note that comment responses for the FDE for Building 728-N (G-FDE-N-00014) were previously submitted in January 2010. The Integrated Sampling Model was approved in 2010 for decommissioning of Building 728-N. As further clarification was not specifically stated in the 2010 comment responses, current investigation confirms there were no UST or above ground fuel oil tank containment areas for 728-N, since the building was not heated.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**

**FDE FOR BUILDING 710-B, HAZARDOUS WASTE STORAGE FACILITY,  
(G-FDE-B-00002, REV 1, AUGUST 7, 2009)**

- 1. Unresolved Question from Walk Down of Site** - There was one unresolved question from the walk down of the site. What appeared to be a capped pipe cleanout or fill-pipe was noticed in the ground approximately 20' off the SW side of the building. This is visible in one of the pictures provided in the handout materials. No one knew what the capped opening was for or where it went. Please provide an explanation of what this is and what it services.

**Response: Clarification.**

Please note that comment responses for the FDE for Building 710-B (G-FDE-B-00002) were previously submitted in January 2010. The Integrated Sampling Model was approved in 2010 for decommissioning of Building 710-B. The building was demolished in 2010 and the Decommissioning Project Final Report (V-PCOR-B-00005, Revision 0, July 12, 2010) was submitted to the regulators in July 2010 and approved by SCDHEC and EPA in September 2010.

**Responsible Party: Ken Blankenship, (803) 952-8612, [john.blankenship@srs.gov](mailto:john.blankenship@srs.gov)**



# Process Heat Exchanger Repair Facility (690-N) Facility Decommissioning Evaluation (FDE)

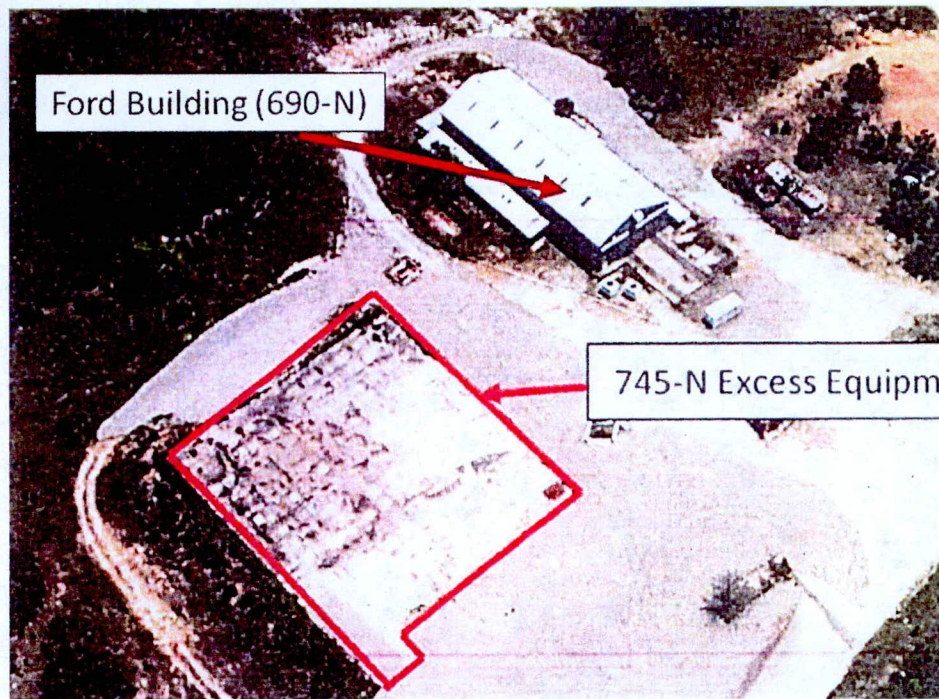
**Steven P. Conner, SRNS**

Project Manager, Environmental Compliance and Area Completion Projects

*Comment Resolution Meeting at the South Carolina Department of Health and Environmental Control – Aiken Environmental Affairs Office*

*April 9, 2019*

# Process Heat Exchanger Repair Facility (690-N) (aka Ford Building)



Approximate date of photo: 2015

## Ford Building (690-N) - History

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- Building constructed in early 1950s for testing of Ford-company motor control packages for control rod drive mechanisms.
- To prepare for maintenance repair/rework of reactor heat exchangers, Ford Building (690-N) facility enlarged and a sealed inner liner structure with HEPA filtered HVAC system (Heat Exchanger Repair Shop) added. Constructed from 1964 to 1966.
- Facility used for maintenance repair/rework of radiologically contaminated heat exchangers from 1966 to 1982.
- New heat exchangers procured; Ford Building (690-N) used for final assembly and testing of new, clean heat exchangers from 1982 to late 1980s.
- Equipment and supplies stored in Ford Building (690-N) from late 1980s to early 1990s.
- Ford Building (690-N) used for repair of one K-Reactor Heat Exchanger in mid-1990s.
- Ford Building (690-N) used for storage of chemically and/or radiologically contaminated excess equipment in mid-1990s to 1998

## Ford Building (690-N) – History (Continued)

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- **Stored equipment removed in 1998 and cleanup of Ford Building (690-N) initiated.**
  - Two epoxy coatings applied to floor of Heat Exchanger Repair Shop room in 1998 to seal residual PCB and radioactive contamination; third coating added in 2009.
  - In 2012, contaminated HEPA equipment (HEPA housings, filters, and exterior ductwork) were removed; contaminated pads beneath HEPAs were filled with concrete and capped with a reinforced concrete.
- **Mechanical and electrical isolation (cold and dark) of Ford Building (690-N) completed in 2012**
- **Enhanced characterization performed in 2014; minimal contamination found in concrete floor slab, soils beneath slab, and Heat Exchanger Repair Shop room**
- **Administrative Plan:**
  - *Decommission Ford Building (690-N) structure under Integrated Sample Model*
  - *Include Ford Building (690-N) post-decommissioning remnant (building slab) in N-Area Waste Unit Closures*

## Excess Equipment Yard (745-N)



## Excess Equipment Yard (745-N) - History

- Excess Equipment Yard (745-N) pad constructed in 1958 as slab of hangar-style building for clean equipment storage.
- Building later demolished, 24,000 ft<sup>2</sup> pad retained. Pad used for storage of reactor process heat exchangers (repaired or awaiting repair).
- All 49 heat exchangers on Excess Equipment Yard (745-N) pad characterized, removed, and dispositioned to SRS Solid Waste Burial Ground in 2011-2012.
- Pad cracked under weight of large crane and 100 ton heat exchangers.
  - Surface contamination found during sampling related to condensation leakage; pad was removed to eliminate risk of contaminant migration to soil.
  - Soil beneath pad sampled and area determined uncontaminated *per SRS-RCO procedures*.
- Under-slab piping (i.e., sanitary sewer, domestic & fire water) removed; area covered with top soil and seeded in 2015.
- Former facility includes no structures, equipment, or support structures.
- **Administrative Plan: Include in N-Area Waste Unit Closures**

# Fuel Oil Tank Concrete Containment Dike



## Fuel Oil Tank Concrete Containment Dike - History

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- Fuel Oil Tank supplied fuel oil to Ford Building (690-N) boiler.
  - Fuel Oil Tank and fuel oil piping to Ford Building (690-N) removed in 2006.
  - Remnant facility includes concrete basin.
  - No evidence of spills/leakage or visible cracks in containment dike.
  - No visible stains outside containment dike perimeter.
- 
- **Administrative Plan:**
    - *Decommission by cleaving containment dike to prevent accumulation of rainwater*
    - *Include post-decommissioning remnant (concrete structure) in N-Area Waste Unit Closures*

## 13.8 kV Substation (652-44N)



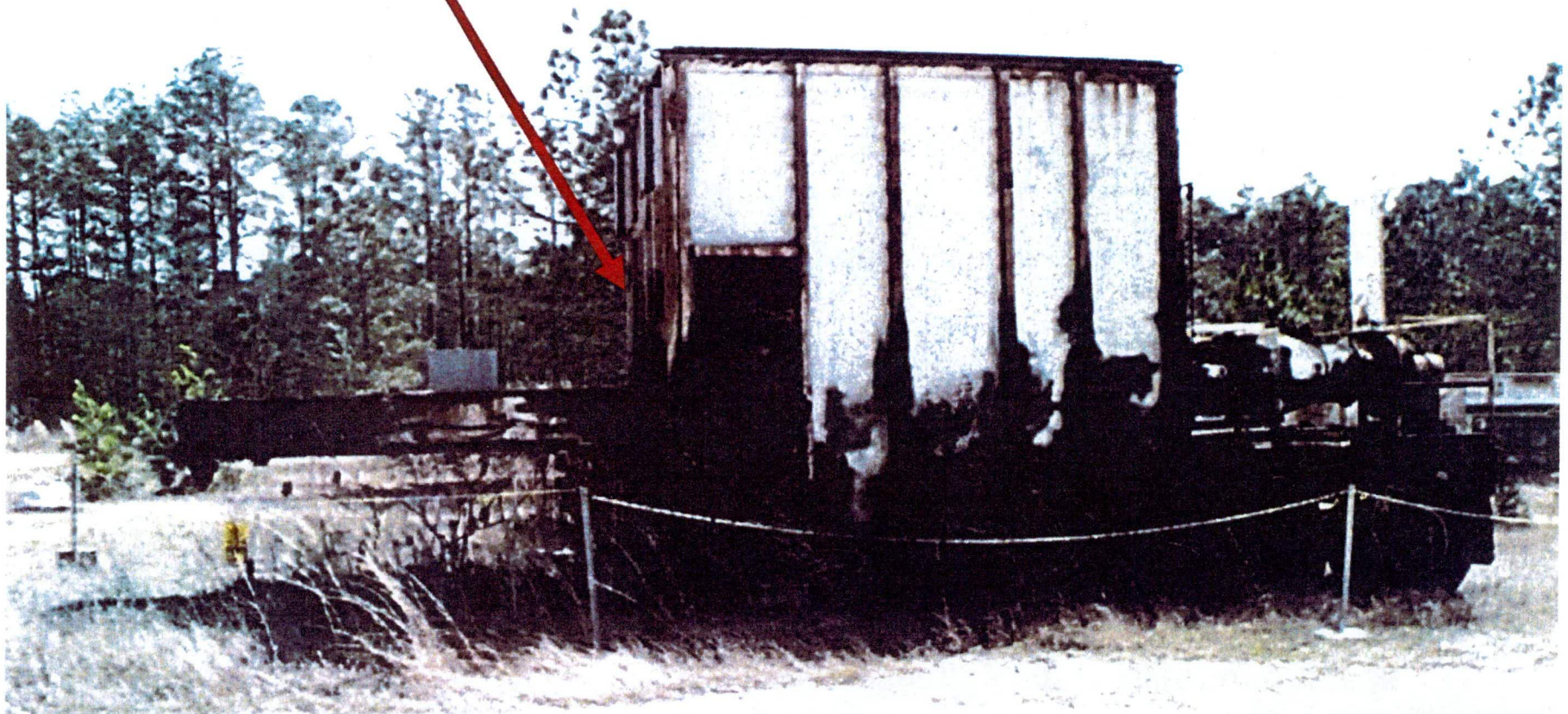
## 13.8 kV Substation (652-44N) - History

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- 652-44N declared excess by DOE late in FY 2009 and authorized for decommissioning.
  - Partially dismantled in approximately FY 2010, including removal of transformer.
  - Remnant facility includes fencing, handrails, utility pole, junction box, handrails and weather heads on and around the concrete pad.
- 
- *Administrative Plan: Include in N-Area Waste Unit Closures*

## Portable Deionizer Trailer (690-1G)

Portable Deionizer Trailer (690-1G)

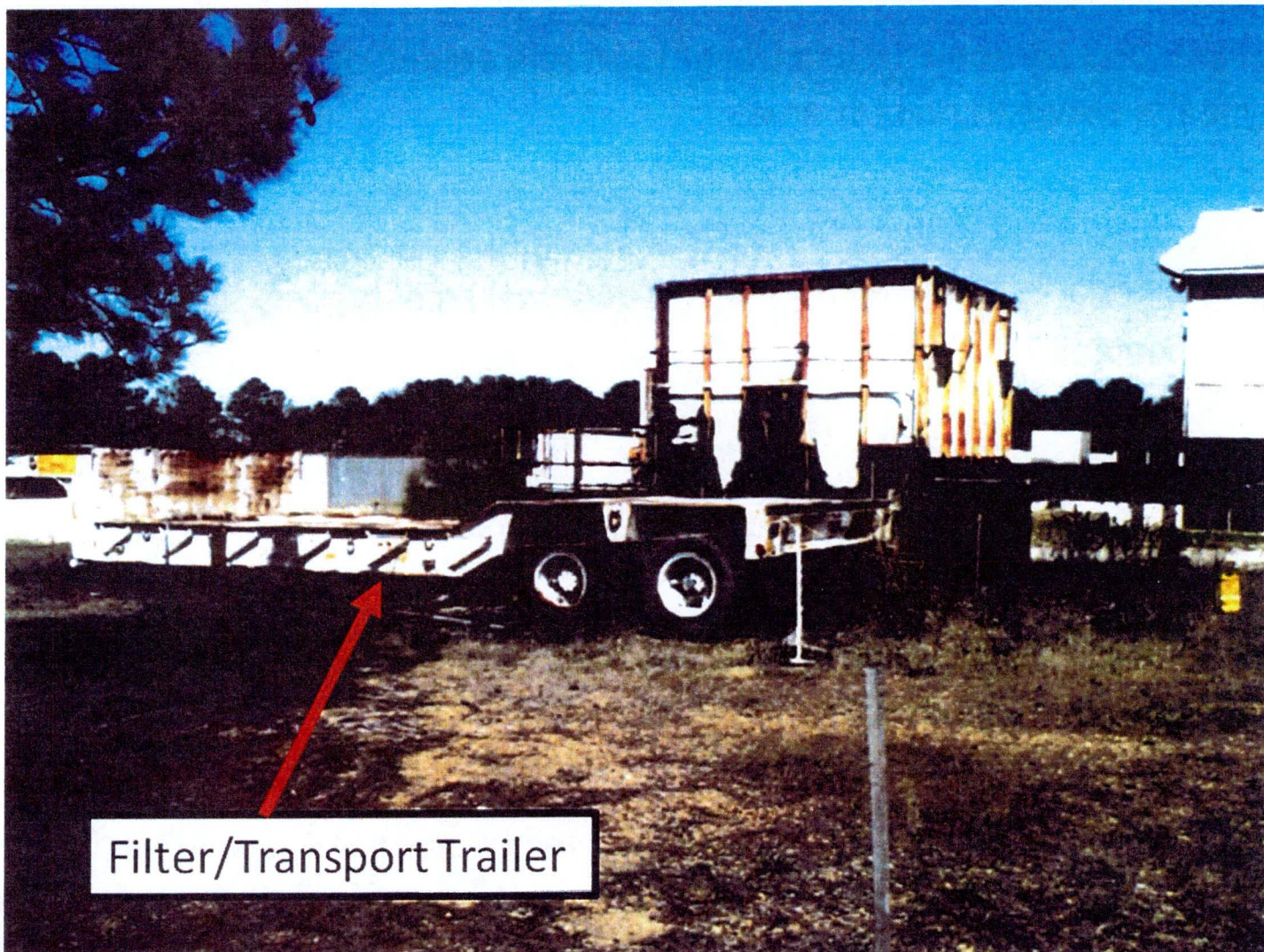


## Portable Deionizer Trailer (690-1G) - History

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- Portable equipment item used to clean disassembly basin water at process reactor buildings.
  - Trailer contains vessels, equipment, and HEPA system.
  - Never used as part of any process in or associated with Ford Building (690-N) (not a Ford Building [690-N] ancillary structure).
  - Rad Screen Results: either non-detect or trace amounts of activity in both pre-filter and HEPA filter samples; prefilter sample exceeded RCRA metal limit for lead (Pb) only and HEPA filter sample indicated no RCRA limit exceedances.
- 
- *Administrative Plan: To Be Dispositioned As Portable Equipment Item Separate from Ford Building (690-N)*

## Filter/Transport Trailer (No Building Number [NBN])



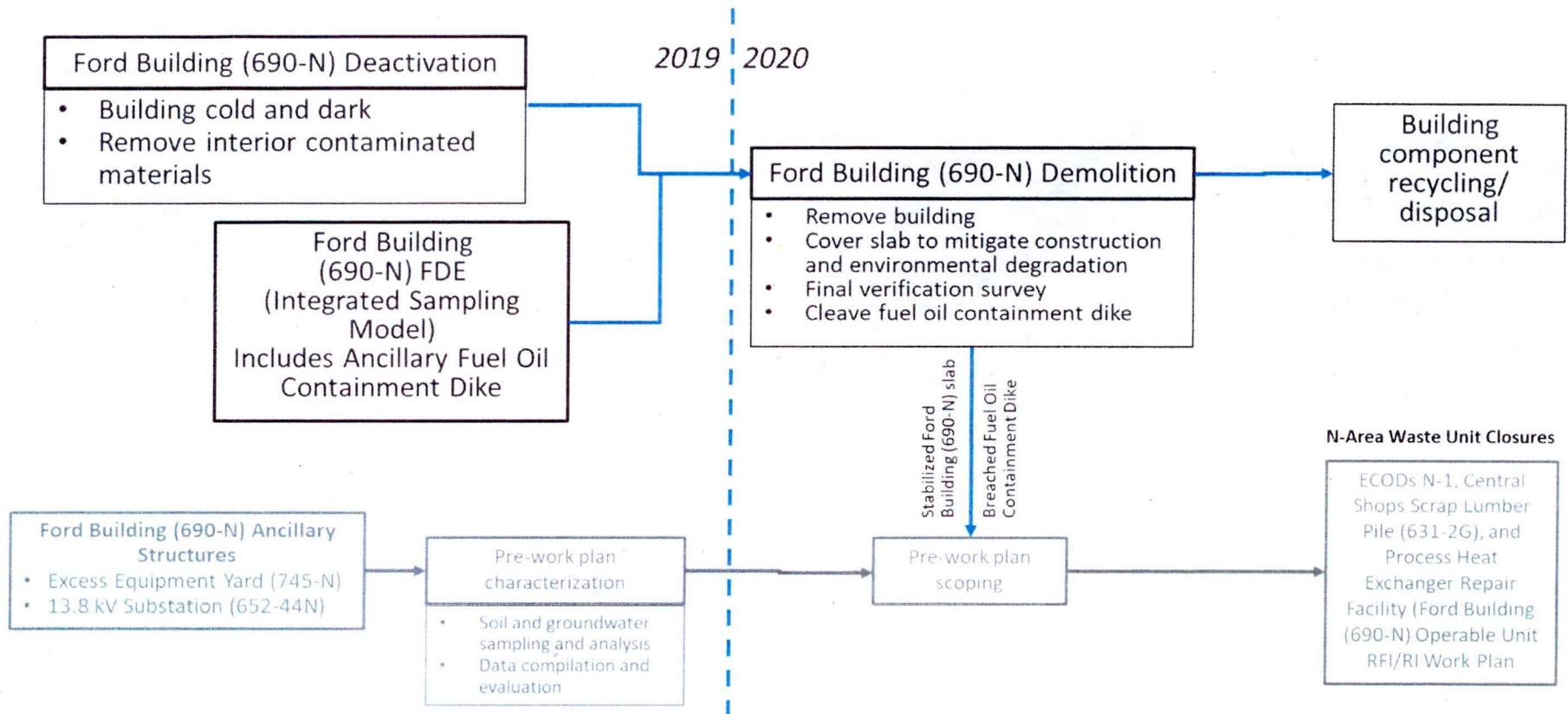
Filter/Transport Trailer

## Filter/Transport Trailer (NBN) - History

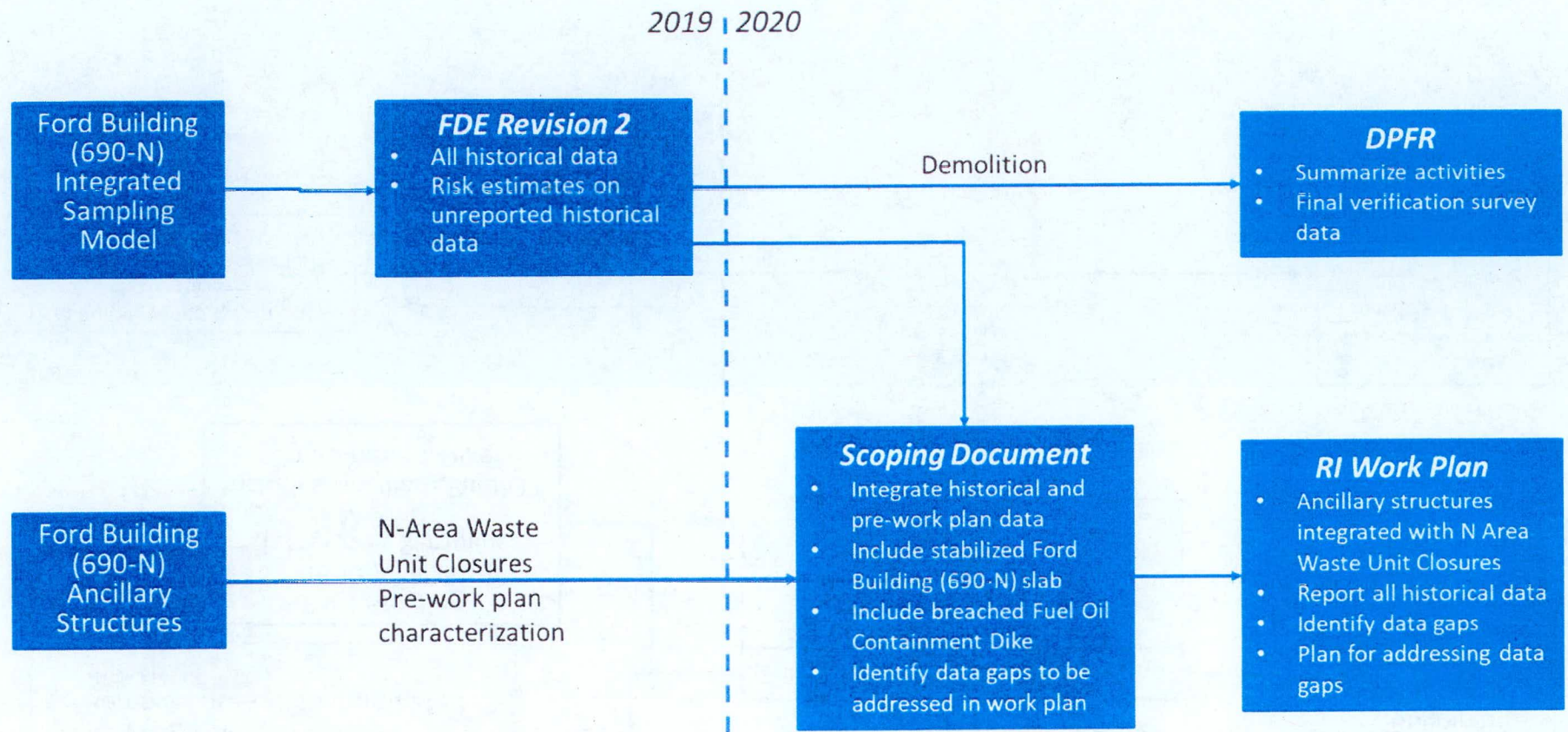
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- Model 845-DLS low-boy flatbed trailer (portable equipment item) used to haul heavy loads between reactor areas.
  - Never used as part of any process in or associated with Ford Building (690-N) (not a Ford Building [690-N] Ancillary Structure).
  - Radiological Survey: Non-detect for radiological activity; field lead (Pb) tests were non-detect.
  - Dispositioned to SRS Solid Waste Burial Ground.
- 
- *Administrative Plan: Complete—Dispositioned to Burial Ground*

# Decommissioning Strategy



# Regulatory Documentation



## Summary

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- **Sampling results and associated risk assessment at Ford Building (690-N) and former Excess Equipment Yard (745-N) will be included with the Ford Building (690-N) FDE Revision 2.**
- **The Integrated Sample Model will be used for partially decommissioning Ford Building (690-N).**
- **The facility remnants in the Ford Building area (building slab, Fuel Oil Concrete Containment Dike, former Excess Equipment Yard [745-N], and 13.8 kV Substation [652-44N]) will be included in the N-Area Waste Unit Closures.**
- **Dispositioned equipment (i.e., Filter/Transport Trailer and Portable Deionizer Trailer [690-1G]) are not Ford Building (690-N) ancillary structures and will not be included in the Ford Building (690-N) FDE Revision 2.**

# QUESTIONS??



**VSDS Standard Map RSLs**  
**Survey DDSG-M-20150714-1**

**General Information:**

Title: 745-N SOIL SAMPLING FOR ROLLBACK OF CA  
 Survey Date/Time: 07/14/2015 07:30  
 Survey Type: Other - Roll Back Survey  
 Counted By: J. KING 07/14/2015 15:03  
 RWP #: 15-SDD-102  
 Facility: DDN  
 Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015

Lead Inspector: KING, JEREMY T  
 Work Order/Task #: FDD-12583  
 KCN: I6903  
 Ready For Review by: KING, JEREMY T, 09/17/2015

**Additional Inspectors:**

Inspector	Cmp Alt	Approve
JAMES, JERRY LEE	W2886	<input checked="" type="checkbox"/>
RENAS, STEPHEN E	W0025	<input checked="" type="checkbox"/>

**Dose Rate (DR) Object Prefixes/Suffixes:**

<u>Dose Rates with Prefixes:</u>	<u>Dose Rates with No Prefixes:</u>	<u>Default Prefixes:</u>	<u>Default Suffixes:</u>
E = Extrem S = Skin	W Body	HS = Hot Spot	"n" = Neutron "b" = Beta "c" = Corrected

**Postings Legend**

CA=Contamination Area                      RBA=Radiological Buffer Area

**Instruments Used**

#	Instrument Model	Instrument Serial #
1	12-110	CMC003658
2	Micro Rem LE	CMC007786
3	HandECount	CMC002721
4	Electra Plus	CMC009014
5	Electra Plus	CMC009054
6	Electra Plus	CMC014091
7	Triathler	CMC010509
8	Triathler	CMC010235
9	Triathler	CMC002973
10	HandECount	CMC013626
11	HandECount	CMC013712
12	HandECount	CMC010747

## VSDS Standard Map RSLs

### Comments:

Performed soil sampling at the 745-N pad which have been demo in preparation to roll the area back from CA to URMA. Soil was sampled according to the Grid Map Layout Sketch in Package # SGCP-SAP-2015-00001. Fifty samples were collected in small bags to a depth of twelve inches. Small bags were placed into two bigger bags which were survey and tagged and placed in coolers for transport to 772-7B to be placed in a RMA(cooler).

Survey of coolers (#136 and #912) and bags of samples results were <20 dpm alpha, <200 dpm beta gamma, <1000 dpm tritium/100cm<sup>2</sup> and ND alpha/ beta gamma large area smears. Rates on coolers and bags of samples were ND mrem/hr @ 5cms,skin and whole body. Receipt survey of load bearing area of vehicle #G42-1901K and coolers(soil samples) at 772-7B results were <20 dpm alpha, <200 dpm beta gamma, <1000 dpm tritium/100cm<sup>2</sup> and ND alpha/ beta gamma large area smears. Load bearing area probed ND alpha, ND beta gamma/100cm<sup>2</sup>. Rates on coolers were ND mrem/hr @ 5cms,skin and whole body.

Field Analysis of all samples were <150pCi/gm beta-gamma, <1000pCi/gm alpha and lab analysis will be perform at 735-B for alpha, beta gamma and tritium. See attachment for results.

Bag of waste from 745-N pad was surveyed in placed in B-25 #ACP150045. Survey results of bag of waste and B-25 were <20 dpm alpha, <200 dpm beta gamma, <1000 dpm tritium/100cm<sup>2</sup> and ND alpha/ beta gamma large area smears. Rates on B-25 and bags of waste were ND mrem/hr @ 5cms,skin and whole body.

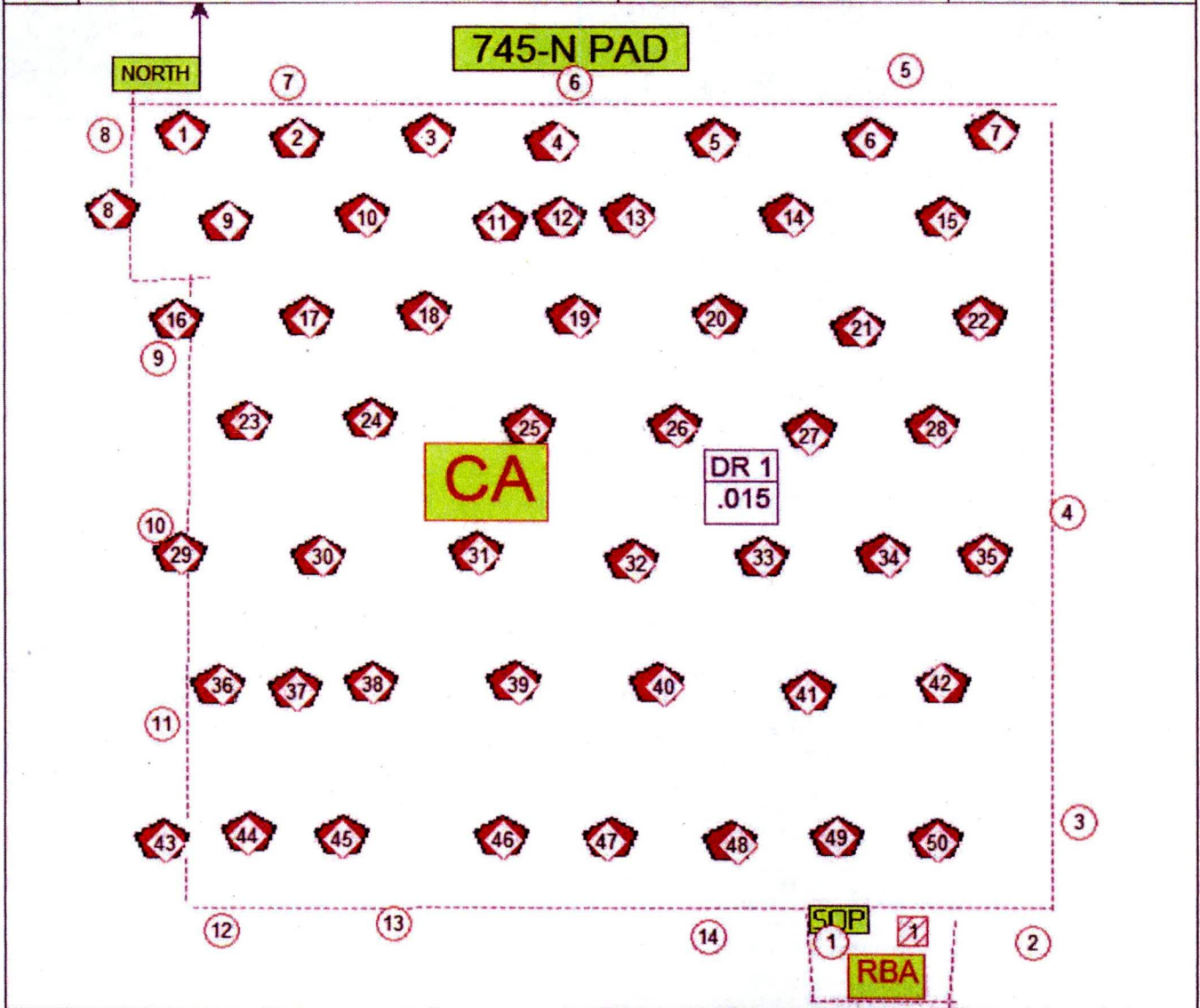
Tools(augers, shovel, post hold digger) used to collected soil samples surveyed <200 dpm alpha, <1000 dpm beta gamma, <10000 dpm tritium/100cm<sup>2</sup> and ND alpha/ beta gamma large area.

Lab analysis for soil samples were received on 7/29/15 and area was downposted to an URMA on 8/4/15. All samples results were <150pCi/gm beta-gamma, <1000pCi/gm alpha, <800,000 pci/ml tritium. See attachments for samples results.

Reference survey DDSG-M-20150713-1 for probe results and dose rates of area to support roll back efforts.

### VSDS Standard Map RSLs

Map: 1 BLANK MAP Survey #: DDSG-M-20150714-1 Date/Time: 07/14/2015 07:30



Comments:

Type: Other - Roll Back Survey

Symbol Legend: (for example only) RWP #: 15-SDD-102

15	15
15	DR
15	15
15	15

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Location Code: COMMON

Location Description: BLANK MAP

Summary of Highest Readings (All Values are in mrem/hr)	
Surface	Air Samples & Wipes
14) <20 DPM/100 cm <sup>2</sup> α 14) <200 DPM/100 cm <sup>2</sup> β/γ 14) <1000 DPM/100 cm <sup>2</sup> Tritium	Wipe 1) ND DPM/Wipe α Wipe 1) ND DPM/Wipe β/γ
Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015 Bldg/Area Name: BLANK MAP	

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150714-1

Map: 1 - COMMONMISC DIAGRAMS\BLANK MAP

#	Type	Inst.	Value	Units	Position	Notes
1	DR $\gamma$	N/A	.015	mrem/hr	ALL SAMPLE POINTS	
1	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
2	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium N/A	DPM/100 cm <sup>2</sup>		
3	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
4	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
5	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium N/A	DPM/100 cm <sup>2</sup>		
6	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
7	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
8	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium N/A	DPM/100 cm <sup>2</sup>		
9	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
10	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
11	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium N/A	DPM/100 cm <sup>2</sup>		
12	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
13	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
14	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
1	Direct	N/A	$\alpha$ 67.0	pCi/gm	A-2	field analysis of soil
		N/A	$\beta/\gamma$ 67.1	pCi/gm		
2	Direct	N/A	$\alpha$ 3	pCi/gm	A-4	field analysis of soil
		N/A	$\beta/\gamma$ 120	pCi/gm		
3	Direct	N/A	$\alpha$ ND	pCi/gm	A-6	Field analysis of soil
		N/A	$\beta/\gamma$ 107.5	pCi/gm		

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150714-1

Map: 1 - COMMONMISC DIAGRAMS\BLANK MAP

#	Type	Inst.	Value	Units	Position	Notes
4	Direct	N/A	$\alpha$ 66.0	pCi/gm	A-8	Field analysis of soil
		N/A	$\beta/\gamma$ 60.3	pCi/gm		
5	Direct	N/A	$\alpha$ 66.0	pCi/gm	A-10	Field analysis of soil
		N/A	$\beta/\gamma$ 98.2	pCi/gm		
6	Direct	N/A	$\alpha$ ND	pCi/gm	A-12	Field analysis of soil
		N/A	$\beta/\gamma$ 95.5	pCi/gm		
7	Direct	N/A	$\alpha$ 35.2	pCi/gm	A-14	Field analysis of soil
		N/A	$\beta/\gamma$ 110.6	pCi/gm		
8	Direct	N/A	$\alpha$ 121.0	DPM/100 cm <sup>2</sup> (T)	B-1	Field analysis of soil
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
9	Direct	N/A	$\alpha$ 0	pCi/gm	B-3	Field analysis of soil
		N/A	$\beta/\gamma$ 88.1	pCi/gm		
10	Direct	N/A	$\alpha$ 140	pCi/gm	B-5	Field analysis of soil
		N/A	$\beta/\gamma$ 28.2	pCi/gm		
11	Direct	N/A	$\alpha$ 0	pCi/gm	B-7	Field Analysis of Soil
		N/A	$\beta/\gamma$ 97.1	pCi/gm		
12	Direct	N/A	$\alpha$ 121	pCi/gm	B-8	Field analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
13	Direct	N/A	$\alpha$ 40.0	pCi/gm	B-9	Field analysis of soil
		N/A	$\beta/\gamma$ 13.2	pCi/gm		
14	Direct	N/A	$\alpha$ 100	pCi/gm	B-11	Field analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
15	Direct	N/A	$\alpha$ 15.2	pCi/gm	B-13	Field analysis of soil
		N/A	$\beta/\gamma$ 90.1	pCi/gm		
16	Direct	N/A	$\alpha$ 0	pCi/gm	C-2	Field analysis of soil
		N/A	$\beta/\gamma$ 120.7	pCi/gm		
17	Direct	N/A	$\alpha$ 3.0	pCi/gm	C-4	Field analysis of soil
		N/A	$\beta/\gamma$ 46.0	pCi/gm		
18	Direct	N/A	$\alpha$ 60	pCi/gm	C-6	Field analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
19	Direct	N/A	$\alpha$ 20	pCi/gm	C-8	Field analysis of soil
		N/A	$\beta/\gamma$ 7.0	pCi/gm		
20	Direct	N/A	$\alpha$ 20	pCi/gm	C-10	Field analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
21	Direct	N/A	$\alpha$ 35.3	pCi/gm	C-12	Field Analysis of soil
		N/A	$\beta/\gamma$ 55.7	pCi/gm		
22	Direct	N/A	$\alpha$ 80	pCi/gm	C-14	Field Analysis of soil
		N/A	$\beta/\gamma$ 70.1	pCi/gm		
23	Direct	N/A	$\alpha$ 20	pCi/gm	D-3	Field Analysis of soil
		N/A	$\beta/\gamma$ 61.2	pCi/gm		
24	Direct	N/A	$\alpha$ 33.5	pCi/gm	D-5	Field Analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
25	Direct	N/A	$\alpha$ 60	pCi/gm	D-7	Field Analysis of soil
		N/A	$\beta/\gamma$ 54.1	pCi/gm		
26	Direct	N/A	$\alpha$ 50.3	pCi/gm	D-9	Field Analysis of soil
		N/A	$\beta/\gamma$ 32.6	pCi/gm		
27	Direct	N/A	$\alpha$ 40.3	pCi/gm	D-11	Field Analysis of soil
		N/A	$\beta/\gamma$ 110.3	pCi/gm		
28	Direct	N/A	$\alpha$ 40.2	pCi/gm	D-13	Field Analysis of soil
		N/A	$\beta/\gamma$ 66.2	pCi/gm		
29	Direct	N/A	$\alpha$ 24	pCi/gm	E-2	Field Analysis of soil
		N/A	$\beta/\gamma$ 90	pCi/gm		

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150714-1

Map: 1 - COMMONMISC DIAGRAMS\BLANK MAP

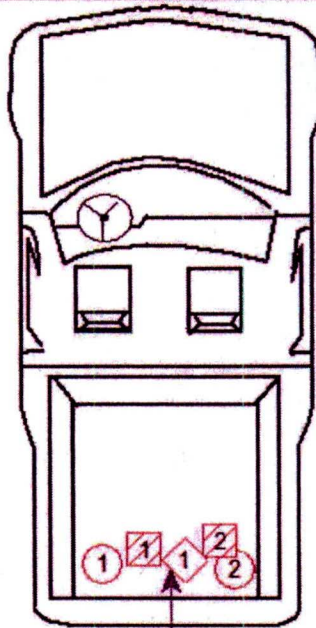
#	Type	Inst.	Value	Units	Position	Notes
30	Direct	N/A	$\alpha$ 110.3	pCi/gm	E-4	Field Analysis of soil
		N/A	$\beta/\gamma$ 81	pCi/gm		
31	Direct	N/A	$\alpha$ 110	pCi/gm	E-6	Field Analysis of soil
		N/A	$\beta/\gamma$ 58.1	pCi/gm		
32	Direct	N/A	$\alpha$ 3	pCi/gm	E-8	Field Analysis of soil
		N/A	$\beta/\gamma$ 78.6	pCi/gm		
33	Direct	N/A	$\alpha$ 60	pCi/gm	E-10	Field Analysis of soil
		N/A	$\beta/\gamma$ 16	pCi/gm		
34	Direct	N/A	$\alpha$ 0	pCi/gm	E-12	Field Analysis of soil
		N/A	$\beta/\gamma$ 110	pCi/gm		
35	Direct	N/A	$\alpha$ 60	pCi/gm	E-14	Field Analysis of soil
		N/A	$\beta/\gamma$ 63.1	pCi/gm		
36	Direct	N/A	$\alpha$ 0	pCi/gm	F-3	Field Analysis of soil
		N/A	$\beta/\gamma$ 111	pCi/gm		
37	Direct	N/A	$\alpha$ 0	pCi/gm	F-4	Field Analysis of soil
		N/A	$\beta/\gamma$ 79.2	pCi/gm		
38	Direct	N/A	$\alpha$ 10	pCi/gm	F-5	Field Analysis of soil
		N/A	$\beta/\gamma$ 76.9	pCi/gm		
39	Direct	N/A	$\alpha$ 5.1	pCi/gm	F-7	Field Analysis of soil
		N/A	$\beta/\gamma$ 97.2	pCi/gm		
40	Direct	N/A	$\alpha$ 30	pCi/gm	F-9	Field Analysis of soil
		N/A	$\beta/\gamma$ 69.3	pCi/gm		
41	Direct	N/A	$\alpha$ 40	pCi/gm	F-11	Field Analysis of soil
		N/A	$\beta/\gamma$ 25.4	pCi/gm		
42	Direct	N/A	$\alpha$ 40	pCi/gm	F-13	Field Analysis of soil
		N/A	$\beta/\gamma$ 25.2	pCi/gm		
43	Direct	N/A	$\alpha$ 0	pCi/gm	G-2	Field Analysis of soil
		N/A	$\beta/\gamma$ 60.7	pCi/gm		
44	Direct	N/A	$\alpha$ 60	pCi/gm	G-3	Field Analysis of soil
		N/A	$\beta/\gamma$ 86.6	pCi/gm		
45	Direct	N/A	$\alpha$ 0	pCi/gm	G-4	Field Analysis of soil
		N/A	$\beta/\gamma$ 93	pCi/gm		
46	Direct	N/A	$\alpha$ 0	pCi/gm	G-6	Field Analysis of soil
		N/A	$\beta/\gamma$ 67.4	pCi/gm		
47	Direct	N/A	$\alpha$ 25	pCi/gm	G-8	Field Analysis of soil
		N/A	$\beta/\gamma$ 53.2	pCi/gm		
48	Direct	N/A	$\alpha$ 41.3	pCi/gm	G-10	Field Analysis of soil
		N/A	$\beta/\gamma$ 13.7	pCi/gm		
49	Direct	N/A	$\alpha$ 0	pCi/gm	G-12	Field Analysis of soil
		N/A	$\beta/\gamma$ 25.9	pCi/gm		
50	Direct	N/A	$\alpha$ 100	pCi/gm	G-14	Field Analysis of soil
		N/A	$\beta/\gamma$ 51.3	pCi/gm		
	Posting		CA			
	Posting		RBA			
	Text		745-N PAD			Concrete slab was removed prior to soil sampling and surveys for roll back efforts.
	Text		NORTH			

VSDS Standard Map RSLs

Map: 2 TRUCK-PICK-UP

Survey #: DDSG-M-20150714-1

Date/Time: 07/14/2015 07:30



LOAD BEARING AREA VEHICLE #G42-1901K

Comments:

Type: Other - Roll Back Survey

Symbol Legend (for example only): RWP #: 15-SDD-102



Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Location Code: COMMON

Location Description: TRUCK-PICK-UP

Summary of Highest Readings  
(All available, those may not be listed)

Smears	Air Samples & Wipes
2) <20 DPM/100 cm <sup>2</sup> α	Wipe 2) ND DPM/Wipe α
2) <200 DPM/100 cm <sup>2</sup> β/γ	Wipe 2) ND DPM/Wipe β/γ
1) <1000 DPM/100 cm <sup>2</sup> Tritium	

Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015

Bldg/Area Name: VEHICLES TRAILERS

Document #: SGCP-SAP-2015-00001

Survey #: DDSG-M-20150714-1 - PDF Generated On: 09/23/2015 08:31

Image File: COMMON\VEHICLES TRAILERS\TRUCK-PICK-UP

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150714-1

Map: 2 - COMMONVEHICLES TRAILERS\TRUCK-PICK-UP

#	Type	Inst.	Value	Units	Position	Notes
1	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
2	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
2	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
1	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
	Text		LOAD BEARING AREA VEHICLE #G42-1901K			RECEIPT SURVEY OF COOLERS TO 772-7B

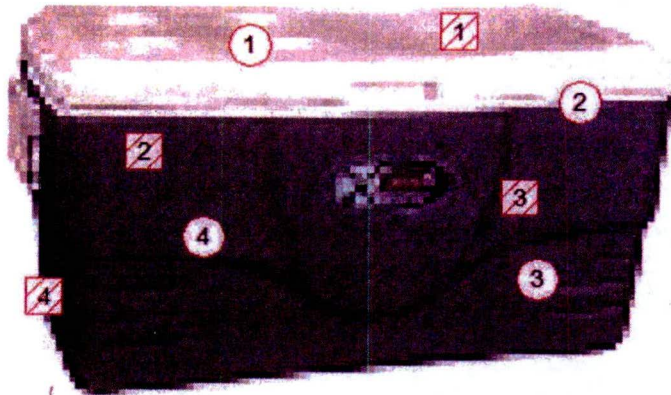
VSDS Standard Map RSLs

Map: 3 COOLER

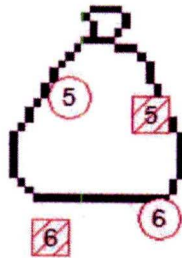
Survey #: DDSG-M-20150714-1

Date/Time: 07/14/2015 07:30

REPRESENT COOLER #136 & #912



DR 2  
END  
SND  
ND



DR 1  
END  
SND  
ND

BAG OF SAMPLES

Comments:

Summary of Highest Readings (All available values may not be listed)	
Smears	Air Samples & Wipes
6) <20 DPM/100 cm2 $\alpha$	Wipe 6) ND DPM/Wipe $\alpha$
6) <200 DPM/100 cm2 $\beta/\gamma$	Wipe 6) ND DPM/Wipe $\beta/\gamma$
6) <1000 DPM/100 cm2 Tritium	

Type: Other - Roll Back Survey

Symbol Legend (for example only) RWP #: 15-SDD-102

15 Smear	15 Direct Probe
15 Large Area	DR Dose Rate
15 Air Sample	

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015

Location Code: SGCP

Bldg/Area Name: Misc. Stuff

Location Description: COOLER

Document #: SGCP-SAP-2015-00001

Image File: SGCP\Misc. Stuff\COOLER

Survey #: DDSG-M-20150714-1 - PDF Generated On: 09/23/2015 08:31

VSDS Standard Map RSLs

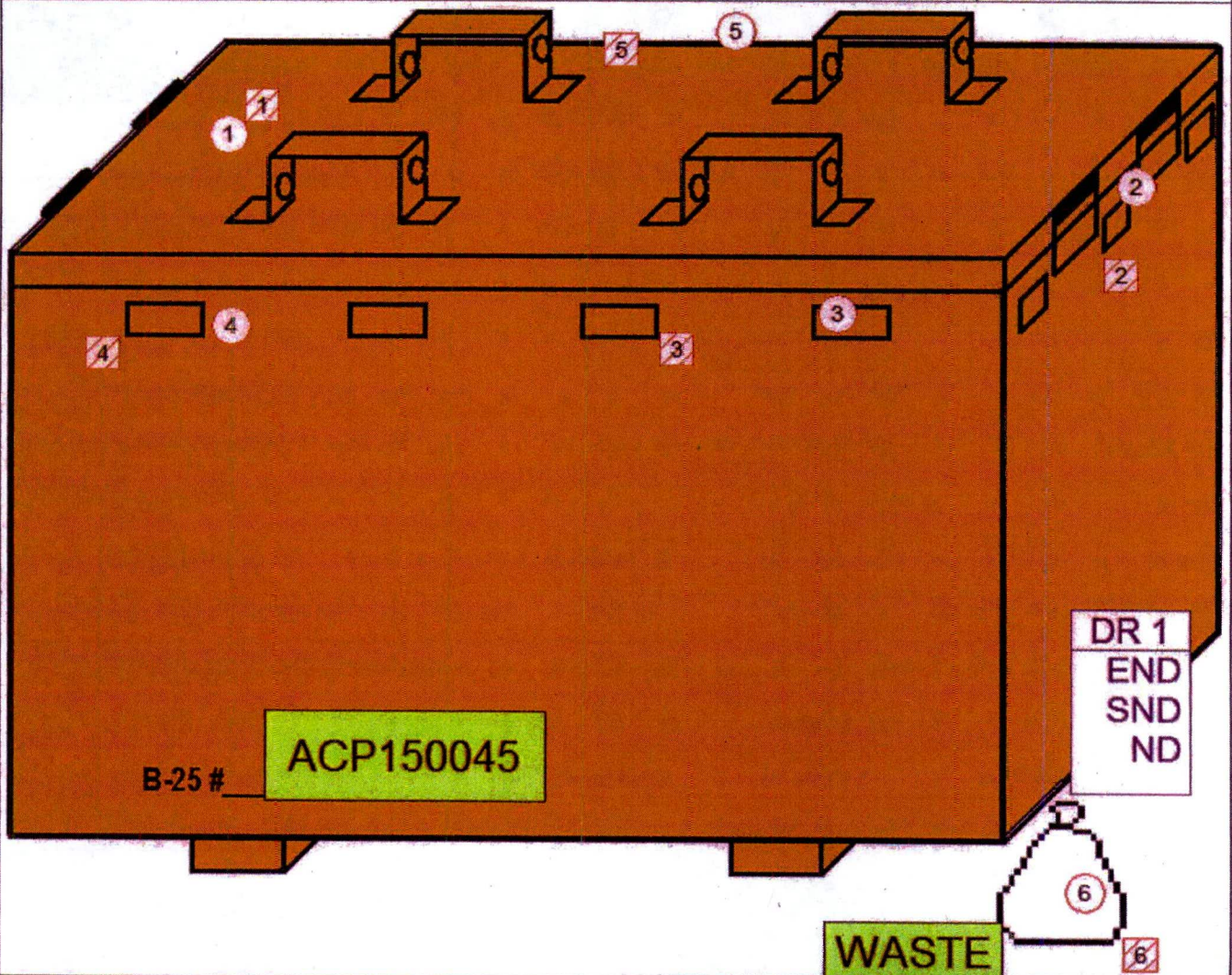
Data Point Details

Survey #: DDSG-M-20150714-1  
 Map: 3 - SGCPMisc. StuffCOOLER

#	Type	Inst.	Value	Units	Position	Notes
1	DR $\gamma$	N/A	E ND	mrem/hr	BAGS OF SAMPLES IN BAG	
		N/A	S ND	mrem/hr		
		N/A	ND	mrem/hr		
2	DR $\gamma$	N/A	E ND	mrem/hr	COOLERS	
		N/A	S ND	mrem/hr		
		N/A	ND	mrem/hr		
1	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
2	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
3	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
4	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
5	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
6	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
2	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
3	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
4	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
5	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
6	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
	Text		REPRESENT COOLER #136 & #912			SOIL SAMPLES WERE PLACED IN COOLER FOR TRANSPORT TO 772-7B
	Text		BAG OF SAMPLES			BAGS OF SOIL SAMPLES WERE PLACED IN TWO BIG BAGS.

VSDS Standard Map RSLs

Map: 4 SINGLE B25 001 Survey #: DDSG-M-20150714-1 Date/Time: 07/14/2015 07:30



Comments:

Summary of Highest Readings (All available values may not be listed)	
Smears	Air Samples & Wipes
6) <20 DPM/100 cm <sup>2</sup> α	Wipe 6) ND DPM/Wipe α
6) <200 DPM/100 cm <sup>2</sup> β/γ	Wipe 6) ND DPM/Wipe β/γ
6) <1000 DPM/100 cm <sup>2</sup> Tritium	

Type: Other - Roll Back Survey

Symbol Legend (for example only) RWP #: 15-SDD-102

15 Smear	DR Direct Probe
15 Large Area	DR Dose Rate
15 Air Sample	

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Location Code: COMMON

Location Description: SINGLE B25 001

Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015

Bldg/Area Name: CONTAINERS

Document #: SGCP-SAP-2015-00001

Survey #: DDSG-M-20150714-1 - PDF Generated On: 09/23/2015 08:31

Image File: COMMON\CONTAINERS\SINGLE B25 001

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150714-1

Map: 4 - COMMON\CONTAINERS\SINGLE B25 001

#	Type	Inst.	Value	Units	Position	Notes
1	DR $\gamma$	N/A	E ND	mrem/hr	WASTE AND B-25	
		N/A	S ND	mrem/hr		
		N/A	N ND	mrem/hr		
1	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
2	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
3	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
4	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
5	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
6	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
2	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
3	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
4	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
5	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
6	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
	Text		WASTE			SOP waste from 745-N PAD
	Text		ACP150045			WASTE WAS PLACED IN B-25

VSDS Standard Map RSLs

**Attachments**

Order	Filename	Description	Pages
1	49-106.pdf	Soil Sample Analysis Data Sheet	1
2	0948776.pdf	Labatory Tritium Soil Analysis Data Sheet	1

# Soil Sample Analysis Index

RSLs Location No.	Field Sample No.	RCD Tracking No.	Alpha Activity (pCi/gm)	Beta Activity (pCi/gm)	Sum of Fractions	RSLs Location No.	Field Sample No.	RCD Tracking No.	Alpha Activity (pCi/gm)	Beta Activity (pCi/gm)	Sum of Fractions
1	A-2	N/A	4.00	24.00	N/A	50	G-14	N/A	10.4	7.60	N/A
2	A-4	N/A	10.2	13.8	N/A						
3	A-6	N/A	5.78	6.72	N/A						
4	A-8	N/A	3.30	5.82	N/A						
5	A-10	N/A	10.2	8.60	N/A						
6	A-12	N/A	5.63	7.38	N/A						
7	A-14	N/A	4.37	9.02	N/A						
8	B-1	N/A	4.86	6.22	N/A						
9	B-3	N/A	10.4	6.95	N/A						
10	B-5	N/A	5.84	7.95	N/A						
11	B-7	N/A	11.0	8.19	N/A						
12	B-8	N/A	7.99	9.20	N/A						
13	B-9	N/A	8.71	11.4	N/A						
14	B-11	N/A	8.07	7.79	N/A						
15	B-13	N/A	5.07	5.57	N/A						
16	C-2	N/A	8.31	8.81	N/A						
17	C-4	N/A	5.74	5.01	N/A						
18	C-6	N/A	10.6	6.97	N/A						
19	C-8	N/A	8.14	6.83	N/A						
20	C-10	N/A	5.04	3.88	N/A						
21	C-12	N/A	7.66	3.05	N/A						
22	C-14	N/A	10.4	6.47	N/A						
23	D-3	N/A	9.11	6.85	N/A						
24	D-5	N/A	10.5	5.12	N/A						
25	D-7	N/A	6.36	6.42	N/A						
26	D-9	N/A	8.18	6.49	N/A						
27	D-11	N/A	11.6	7.75	N/A						
28	D-13	N/A	5.52	7.80	N/A						
29	E-2	N/A	12.4	6.34	N/A						
30	E-4	N/A	19.6	9.98	N/A						
31	E-6	N/A	7.95	5.09	N/A						
32	E-8	N/A	8.76	4.86	N/A						
33	E-10	N/A	6.55	6.05	N/A						
34	E-12	N/A	4.00	3.78	N/A						
35	E-14	N/A	6.34	6.97	N/A						
36	F-3	N/A	10.1	6.93	N/A						
37	F-4	N/A	7.94	8.91	N/A						
38	F-5	N/A	17.9	9.80	N/A						
39	F-7	N/A	24.1	9.18	N/A						
40	F-9	N/A	11.5	9.07	N/A						
41	F-11	N/A	7.61	5.69	N/A						
42	F-13	N/A	3.59	6.02	N/A						
43	G-2	N/A	5.95	8.16	N/A						
44	G-3	N/A	8.87	5.31	N/A						
45	G-4	N/A	3.22	3.74	N/A						
46	G-6	N/A	14.3	11.9	N/A						
47	G-8	N/A	4.62	6.23	N/A						
48	G-10	N/A	7.08	12.0	N/A						
49	G-12	N/A	11.2	5.91	N/A						
Reviewed by (print name)						Signature			Date		

N

A

CUSTOMER_ID	COLLECTION_DATE	DATE_RECEIVED	EMCAR_NO	SAMPLE_ID	TASK_ID	WORKLIST_ID	ANALYTE	RESULT	UNITS	UNCERTAINTY (1 SIGMA)	MDA	% MOISTURE
A-10	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575500	200305082	302808734	500080995	H-3	5.41E-01	pCi/g	6.53E-01	2.21E+00	1.22E+01
A-12	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575600	200305083	302808760	500080995	H-3	2.77E-02	pCi/g	6.28E-01	2.19E+00	1.58E+01
A-14	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580569500	200305104	302808994	500080986	H-3	-1.18E+00	pCi/g	4.38E-01	1.66E+00	1.67E+01
A-2	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568900	200305138	302809555	500080995	H-3	1.86E-02	pCi/g	6.31E-01	2.20E+00	8.38E+00
A4	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580567900	200305164	302810075	500080986	H-3	-3.09E-01	pCi/g	4.67E-01	1.66E+00	1.84E+01
A-6	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580569300	200305139	302809581	500080986	H-3	-1.85E-01	pCi/g	4.67E-01	1.64E+00	1.49E+01
A-8	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575700	200305084	302808786	500080995	H-3	6.14E-01	pCi/g	6.44E-01	2.17E+00	1.59E+01
B-1	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580569600	200305107	302809072	500080995	H-3	2.34E+00	pCi/g	7.17E-01	2.22E+00	1.18E+01
B-11	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575200	200305091	302808968	500080986	H-3	-1.35E-01	pCi/g	4.72E-01	1.65E+00	1.44E+01
B-13	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574800	200305087	302808864	500081040	H-3	1.46E-01	pCi/g	6.34E-01	2.18E+00	5.08E+00
B-3	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575900	200305085	302808812	500080995	H-3	1.48E-01	pCi/g	6.35E-01	2.20E+00	9.85E+00
B-5	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575800	200305042	302808510	500080995	H-3	8.79E-01	pCi/g	6.74E-01	2.24E+00	1.35E+01
B-7	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580569200	200305105	302809020	500080986	H-3	9.14E-01	pCi/g	5.08E-01	1.66E+00	1.58E+01
B-8	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574700	200305109	302809124	500080995	H-3	1.44E+00	pCi/g	6.94E-01	2.24E+00	1.55E+01
B-9	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574500	200305108	302809098	500080986	H-3	1.85E+00	pCi/g	6.20E-01	1.95E+00	1.48E+01
C-10	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575100	200305090	302808942	500080986	H-3	2.91E+00	pCi/g	7.24E-01	2.18E+00	1.39E+01
C-12	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575000	200305089	302808916	500080986	H-3	-9.49E-02	pCi/g	4.67E-01	1.63E+00	1.04E+01
C-14	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575300	200305080	302808682	500080986	H-3	1.47E-01	pCi/g	4.78E-01	1.64E+00	1.39E+01
C-2	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580576000	200305079	302808536	500080986	H-3	7.63E+00	pCi/g	6.68E-01	1.59E+00	9.78E+00
C-4	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574900	200305088	302808890	500080995	H-3	-1.98E-01	pCi/g	6.05E-01	2.13E+00	1.03E+01
C-6	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580569400	200305106	302809046	500080986	H-3	6.01E-01	pCi/g	4.90E-01	1.63E+00	1.29E+01
C-8	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580575400	200305081	302808708	500080986	H-3	8.99E-02	pCi/g	4.80E-01	1.65E+00	1.38E+01
D-11	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580573600	200305144	302809711	500080986	H-3	-7.63E-01	pCi/g	4.42E-01	1.63E+00	1.03E+01
D-13	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580573800	200305145	302809737	500080986	H-3	-2.68E-01	pCi/g	4.64E-01	1.64E+00	1.37E+01
D3	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568100	200305165	302810101	500080995	H-3	3.48E+01	pCi/g	1.41E+00	2.17E+00	7.99E+00
D-5	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574600	200305086	302808838	500080986	H-3	1.19E+01	pCi/g	7.63E-01	1.60E+00	8.48E+00
D-7	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568400	200305169	302810205	500081040	H-3	-1.39E-01	pCi/g	6.33E-01	2.22E+00	1.13E+01
D-9	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580573400	200305143	302809685	500080995	H-3	6.89E-01	pCi/g	6.57E-01	2.21E+00	1.00E+01
E-10	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568600	200305135	302809477	500080995	H-3	-1.63E-01	pCi/g	6.10E-01	2.15E+00	9.72E+00
E-12	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568700	200305136	302809510	500080995	H-3	-2.55E-01	pCi/g	6.10E-01	2.16E+00	1.09E+01
E-14	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568000	200305167	302810153	500081040	H-3	-5.27E-01	pCi/g	6.05E-01	2.17E+00	8.12E+00
E-2	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568200	200305168	302810179	500080986	H-3	1.76E+00	pCi/g	5.26E-01	1.63E+00	1.18E+01
E4	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568300	200305166	302810127	500080986	H-3	2.05E+00	pCi/g	5.22E-01	1.59E+00	7.77E+00
E-6	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568800	200305137	302809529	500081040	H-3	-1.19E-01	pCi/g	6.20E-01	2.17E+00	8.97E+00
E-8	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580568500	200305134	302809150	500080995	H-3	-2.78E-01	pCi/g	6.19E-01	2.20E+00	8.17E+00
F-11	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580573500	200305141	302809633	500080995	H-3	-2.03E-01	pCi/g	6.18E-01	2.18E+00	9.29E+00
F-13	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580573700	200305142	302809659	500081040	H-3	1.58E-06	pCi/g	6.01E-01	2.09E+00	3.80E+00
F-3	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574300	200305154	302809815	500080995	H-3	2.32E-01	pCi/g	6.38E-01	2.20E+00	1.09E+01
F-4	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574000	200305155	302809841	500081040	H-3	5.11E-01	pCi/g	6.52E-01	2.20E+00	1.29E+01
F-5	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574200	200305156	302809867	500081040	H-3	2.44E+00	pCi/g	7.14E-01	2.21E+00	1.03E+01
F-7	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574400	200305157	302809893	500081040	H-3	1.89E+00	pCi/g	6.99E-01	2.21E+00	1.26E+01
F-9	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580573300	200305140	302809607	500080995	H-3	-2.73E-02	pCi/g	6.17E-01	2.15E+00	8.05E+00
G-10	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580578800	200305163	302810049	500080986	H-3	-7.16E-01	pCi/g	4.59E-01	1.68E+00	1.71E+01
G-12	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580573900	200305152	302809763	500081040	H-3	-6.42E-01	pCi/g	6.06E-01	2.18E+00	1.38E+01
G-14	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580574100	200305153	302809789	500080986	H-3	-5.11E-01	pCi/g	4.89E-01	1.69E+00	9.96E+00
G-2	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580576500	200305159	302809945	500080995	H-3	3.15E-01	pCi/g	6.41E-01	2.20E+00	1.09E+01
G-3	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580576300	200305158	302809919	500080986	H-3	-3.47E-01	pCi/g	4.48E-01	1.60E+00	9.58E+00
G-4	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580576700	200305160	302809971	500080995	H-3	9.14E-03	pCi/g	6.21E-01	2.19E+00	1.08E+01
G-6	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580576400	200305161	302809997	500081040	H-3	3.96E-01	pCi/g	6.44E-01	2.19E+00	1.23E+01
G-8	14-JUL-2015 11:00:00	15-JUL-2015 11:00:00	1580576600	200305162	302810023	500080986	H-3	8.03E-01	pCi/g	4.92E-01	1.62E+00	1.28E+01

**VSDS Standard Map RSLs**  
**Survey DDSG-M-20150713-1**

**General Information**

Title: 745-N SURVEY FOR ROLLBACK OF CA  
 Survey Date/Time: 07/13/2015 07:15  
 Survey Type: Other - Rollback Survey  
 Counted By: S. Renas 07/13/2015 09:00  
 RWP #: 15-SDD-006  
 Facility: DDN  
 Status: Approved by: JOYNER, GREGORY DEVON, 08/28/2015

Lead Inspector: KING, JEREMY T  
 Work Order/Task #: N/A  
 KCN: I6903  
 Ready For Review by: JAMES, JERRY LEE, 07/14/2015

**Additional Inspectors**

Inspector	Cmp. Alt	Approve
CULLER, SHERMAN LARTIGUE	W6537	<input checked="" type="checkbox"/>
JAMES, JERRY LEE	W2886	<input checked="" type="checkbox"/>
RENAS, STEPHEN E	W0025	<input checked="" type="checkbox"/>

**Dose Rate (DR) Object Prefixes/Suffixes**

<u>Dose Rates with Prefixes:</u>	<u>Dose Rates with No Prefixes:</u>	<u>Default Prefixes:</u>	<u>Default Suffixes:</u>
E = Extrem		HS = Hot Spot	"n" = Neutron
GA = GA WB			"b" = Beta
S = Skin			"c" = Corrected

**Postings Legend**

CA=Contamination Area                      Contact RC=Contact RCO                      RBA=Radiological Buffer Area

**Instruments Used**

#	Instrument Model	Instrument Serial #
1	Electra Plus	CMC009014
2	Electra Plus	CMC009213
3	Electra Plus	CMC014092
4	12-110	CMC003627
5	12-Alpha	CMC006493
6	Micro Rem LE	CMC007778
7	Micro Rem LE	CMC007818
8	HandECount	CMC002721

## VSDS Standard Map RSLs

### Comments:

Performed probe and Bicon dose rate survey portion of the rollback survey at 745-N Excess Equipment Pad. Survey involved 100% probe of soil which was underneath the former pad which was demo and disposed of and dose rate surveys at 30 cm of the soil area.

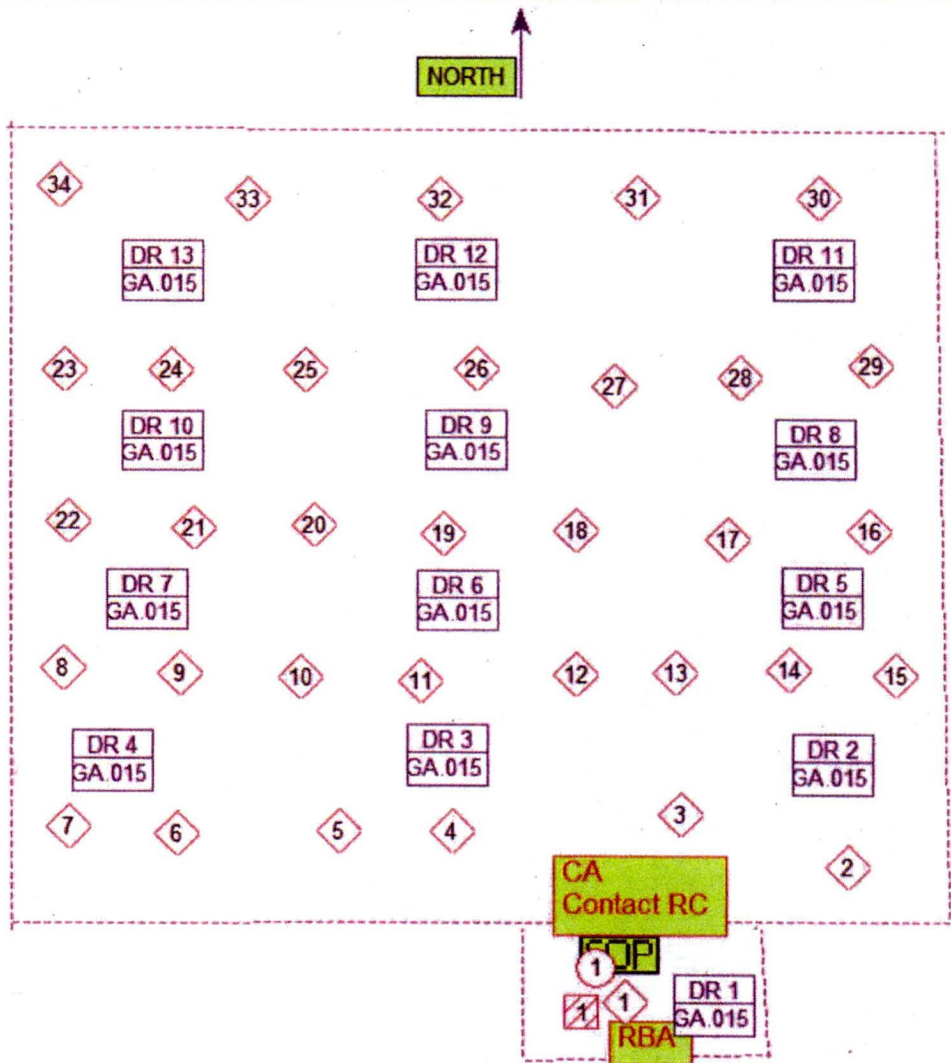
All probes were ND dpm/100cm<sup>2</sup> alpha & beta gamma.  
Maximum dose rates in the area were .015 mrem/hr at 30cm.

Reference the Soil sampling and Analysis Plan for all roll back requirements: SGCP-SAP-2015-00001.

No Radiological problems were encountered.

### VSDS Standard Map RSLs

BLANK MAP Survey #: DDSG-M-20150713-1 Date/Time: 07/13/2015 07:15



Comments:

Summary of Highest Readings (All available values may not be listed)	
Smears	Air Samples & Wipes
1) <20 DPM/100 cm <sup>2</sup> α 1) <200 DPM/100 cm <sup>2</sup> β/γ	Wipe 1) ND DPM/Wipe α Wipe 1) ND DPM/Wipe β/γ

Type: Other - Rollback Survey

Symbol Legend (for example only): RWP #: 15-SDD-006

15 Smear	15 Direct Probe
15 Large Area	DR Dose Rate
15 Air Sample	

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Status: Approved by: JOYNER, GREGORY DEVON, 08/28/2015

Location Code: COMMON

Bldg/Area Name: BLANK MAP

Location Description: BLANK MAP

Document #: SGCP-SAP-2015-00001

Image File: COMMON\MISC DIAGRAMS\BLANK MAP

Survey #: DDSG-M-20150713-1 - PDF Generated On: 08/28/2015 09:00

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150713-1

Map: COMMONMISC DIAGRAMS\BLANK MAP

#	Type	Inst.	Value	Units	Position	Notes
1	DR $\gamma$	N/A	GA .015	mrem/hr		
2	DR $\gamma$	N/A	GA .015	mrem/hr		
3	DR $\gamma$	N/A	GA .015	mrem/hr		
4	DR $\gamma$	N/A	GA .015	mrem/hr		
5	DR $\gamma$	N/A	GA .015	mrem/hr		
6	DR $\gamma$	N/A	GA .015	mrem/hr		
7	DR $\gamma$	N/A	GA .015	mrem/hr		
8	DR $\gamma$	N/A	GA .015	mrem/hr		
9	DR $\gamma$	N/A	GA .015	mrem/hr		
10	DR $\gamma$	N/A	GA .015	mrem/hr		
11	DR $\gamma$	N/A	GA .015	mrem/hr		
12	DR $\gamma$	N/A	GA .015	mrem/hr		
13	DR $\gamma$	N/A	GA .015	mrem/hr		
1	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
N/A		$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>			
N/A		Tritium N/A	DPM/100 cm <sup>2</sup>			
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
1	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
2	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
3	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
4	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
5	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
6	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
7	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
8	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
9	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
10	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
11	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
12	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
13	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
14	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
15	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
16	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
17	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150713-1

Map: COMMONMISC DIAGRAMS\BLANK MAP

#	Type	Inst.	Value	Units	Position	Notes
18	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
19	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
20	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
21	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
22	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
23	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
24	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
25	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
26	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
27	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
28	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
29	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
30	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
31	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
32	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
33	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
34	Direct	N/A	α ND	DPM/100 cm2 (T)		
		N/A	β/γ ND	DPM/100 cm2 (T)		
	Text		NORTH			
	Posting		RBA			
	Posting		CA			
			Contact RC			

**VSDS Standard Map RSLs**  
**Survey DDSG-M-20150714-1**

**General Information**

Title: 745-N SOIL SAMPLING FOR ROLLBACK OF CA  
 Survey Date/Time: 07/14/2015 07:30      Lead Inspector: KING, JEREMY T  
 Survey Type: Other - Roll Back Survey      Work Order/Task #: FDD-12583  
 Counted By: J. KING 07/14/2015 15:03      KCN: I6903  
 RWP #: 15-SDD-102  
 Facility: DDN  
 Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015      Ready For Review by: KING, JEREMY T, 09/17/2015

**Additional Inspectors**

Inspector	Cmp Alt	Approve
JAMES, JERRY LEE	W2886	<input checked="" type="checkbox"/>
RENAS, STEPHEN E	W0025	<input checked="" type="checkbox"/>

**Dose Rate (DR) Object Prefixes/Suffixes**

<u>Dose Rates with Prefixes:</u> E = Extrem S = Skin	<u>Dose Rates with No Prefixes:</u> W Body	<u>Default Prefixes:</u> HS = Hot Spot	<u>Default Suffixes:</u> "n" = Neutron "b" = Beta "c" = Corrected
--	---	---	--

**Postings Legend**

CA=Contamination Area      RBA=Radiological Buffer Area

**Instruments Used**

#	Instrument Model	Instrument Serial #
1	12-110	CMC003658
2	Micro Rem LE	CMC007786
3	HandECount	CMC002721
4	Electra Plus	CMC009014
5	Electra Plus	CMC009054
6	Electra Plus	CMC014091
7	Triathler	CMC010509
8	Triathler	CMC010235
9	Triathler	CMC002973
10	HandECount	CMC013626
11	HandECount	CMC013712
12	HandECount	CMC010747

## VSDS Standard Map RSLs

### Comments:

Performed soil sampling at the 745-N pad which have been demo in preparation to roll the area back from CA to URMA. Soil was sampled according to the Grid Map Layout Sketch in Package # SGCP-SAP-2015-00001. Fifty samples were collected in small bags to a depth of twelve inches. Small bags were placed into two bigger bags which were survey and tagged and placed in coolers for transport to 772-7B to be placed in a RMA(cooler).

Survey of coolers (#136 and #912) and bags of samples results were <20 dpm alpha, <200 dpm beta gamma, <1000 dpm tritium/100cm<sup>2</sup> and ND alpha/ beta gamma large area smears. Rates on coolers and bags of samples were ND mrem/hr @ 5cms,skin and whole body. Receipt survey of load bearing area of vehicle #G42-1901K and coolers(soil samples) at 772-7B results were <20 dpm alpha, <200 dpm beta gamma, <1000 dpm tritium/100cm<sup>2</sup> and ND alpha/ beta gamma large area smears. Load bearing area probed ND alpha, ND beta gamma/100cm<sup>2</sup>. Rates on coolers were ND mrem/hr @ 5cms,skin and whole body.

Field Analysis of all samples were <150pCi/gm beta-gamma, <1000pCi/gm alpha and lab analysis will be perform at 735-B for alpha, beta gamma and tritium. See attachment for results.

Bag of waste from 745-N pad was surveyed in placed in B-25 #ACP150045. Survey results of bag of waste and B-25 were <20 dpm alpha, <200 dpm beta gamma, <1000 dpm tritium/100cm<sup>2</sup> and ND alpha/ beta gamma large area smears. Rates on B-25 and bags of waste were ND mrem/hr @ 5cms,skin and whole body.

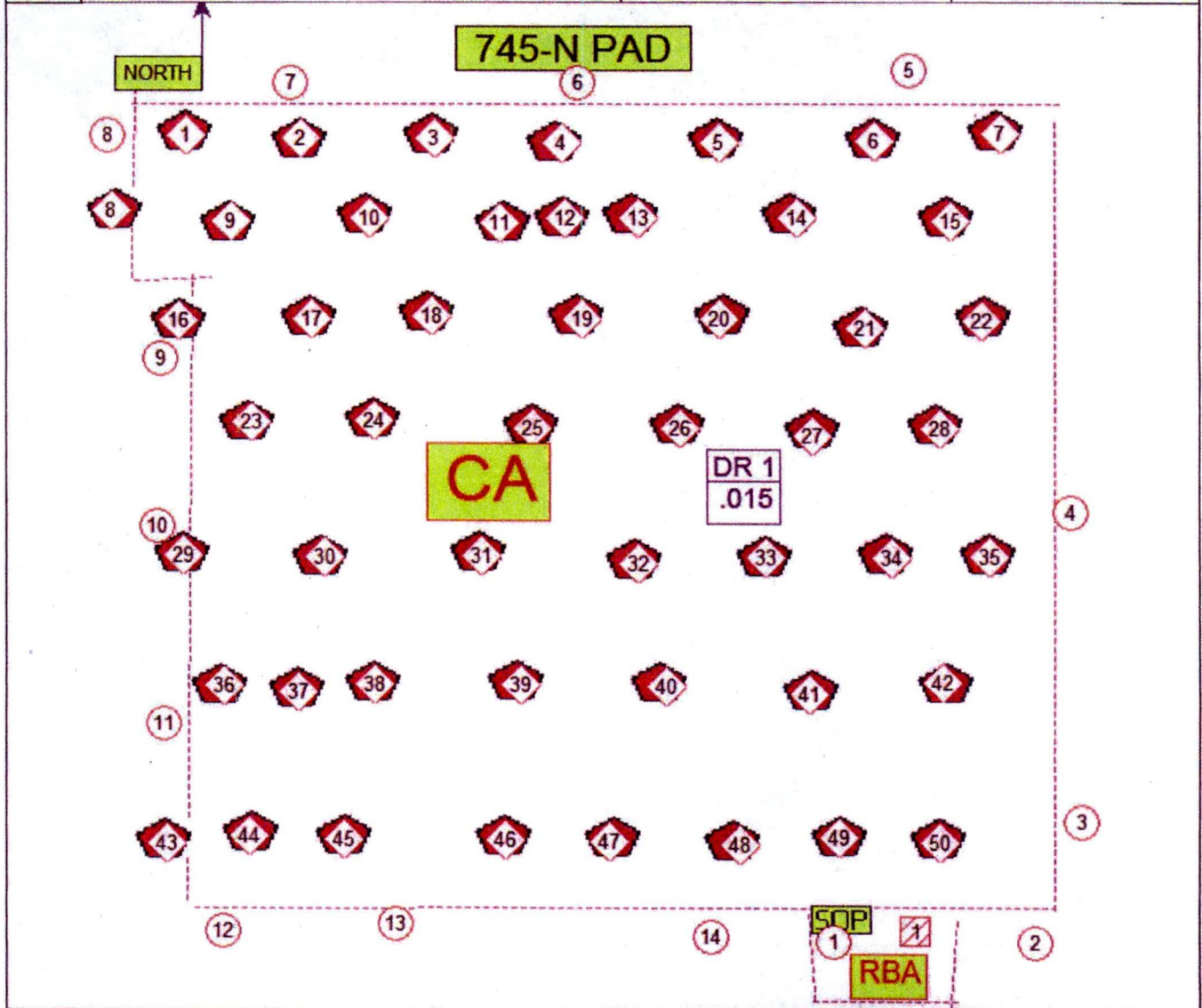
Tools(augers, shovel, post hold digger) used to collected soil samples surveyed <200 dpm alpha, <1000 dpm beta gamma, <10000 dpm tritium/100cm<sup>2</sup> and ND alpha/ beta gamma large area.

Lab analysis for soil samples were received on 7/29/15 and area was downposted to an URMA on 8/4/15. All samples results were <150pCi/gm beta-gamma, <1000pCi/gm alpha, <800,000 pci/ml tritium. See attachments for samples results.

Reference survey DDSG-M-20150713-1 for probe results and dose rates of area to support roll back efforts.

### VSDS Standard Map RSLs

Map: 1 BLANK MAP Survey #: DDSG-M-20150714-1 Date/Time: 07/14/2015 07:30



Comments:

Type: Other - Roll Back Survey

Symbol Legend (for example only) RWP #: 15-SDD-102

15 Smear	15 Direct Probe
15 Large Area	DR Dose Rate
15 Air Sample	

Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Location Code: COMMON

Location Description: BLANK MAP

Summary of Highest Readings (All available values may not be listed)	
Smears	Air Samples & Wipes
14) <20 DPM/100 cm <sup>2</sup> α 14) <200 DPM/100 cm <sup>2</sup> β/γ 14) <1000 DPM/100 cm <sup>2</sup> Tritium	Wipe 1) ND DPM/Wipe α Wipe 1) ND DPM/Wipe β/γ

Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015

Bldg/Area Name: BLANK MAP

VSDS Standard Map RSLs

**Data Point Details**

Survey #: DDSG-M-20150714-1

Map: 1 - COMMONMISC DIAGRAMS\BLANK MAP

#	Type	Inst.	Value	Units	Position	Notes
1	DR $\gamma$	N/A	.015	mrem/hr	ALL SAMPLE POINTS	
1	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
2	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium N/A	DPM/100 cm <sup>2</sup>		
3	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
4	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
5	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium N/A	DPM/100 cm <sup>2</sup>		
6	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
7	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
8	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium N/A	DPM/100 cm <sup>2</sup>		
9	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
10	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
11	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium N/A	DPM/100 cm <sup>2</sup>		
12	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
13	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
14	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>	Boundary	
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
1	Direct	N/A	$\alpha$ 67.0	pCi/gm	A-2	field analysis of soil
		N/A	$\beta/\gamma$ 67.1	pCi/gm		
2	Direct	N/A	$\alpha$ 3	pCi/gm	A-4	field analysis of soil
		N/A	$\beta/\gamma$ 120	pCi/gm		
3	Direct	N/A	$\alpha$ ND	pCi/gm	A-6	Field analysis of soil
		N/A	$\beta/\gamma$ 107.5	pCi/gm		

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150714-1

Map: 1 - COMMONMISC DIAGRAMS\BLANK MAP

#	Type	Inst.	Value	Units	Position	Notes
4	Direct	N/A	$\alpha$ 66.0	pCi/gm	A-8	Field analysis of soil
		N/A	$\beta/\gamma$ 60.3	pCi/gm		
5	Direct	N/A	$\alpha$ 66.0	pCi/gm	A-10	Field analysis of soil
		N/A	$\beta/\gamma$ 98.2	pCi/gm		
6	Direct	N/A	$\alpha$ ND	pCi/gm	A-12	Field analysis of soil
		N/A	$\beta/\gamma$ 95.5	pCi/gm		
7	Direct	N/A	$\alpha$ 35.2	pCi/gm	A-14	Field analysis of soil
		N/A	$\beta/\gamma$ 110.6	pCi/gm		
8	Direct	N/A	$\alpha$ 121.0	DPM/100 cm <sup>2</sup> (T)	B-1	Field analysis of soil
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
9	Direct	N/A	$\alpha$ 0	pCi/gm	B-3	Field analysis of soil
		N/A	$\beta/\gamma$ 88.1	pCi/gm		
10	Direct	N/A	$\alpha$ 140	pCi/gm	B-5	Field analysis of soil
		N/A	$\beta/\gamma$ 28.2	pCi/gm		
11	Direct	N/A	$\alpha$ 0	pCi/gm	B-7	Field Analysis of Soil
		N/A	$\beta/\gamma$ 97.1	pCi/gm		
12	Direct	N/A	$\alpha$ 121	pCi/gm	B-8	Field analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
13	Direct	N/A	$\alpha$ 40.0	pCi/gm	B-9	Field analysis of soil
		N/A	$\beta/\gamma$ 13.2	pCi/gm		
14	Direct	N/A	$\alpha$ 100	pCi/gm	B-11	Field analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
15	Direct	N/A	$\alpha$ 15.2	pCi/gm	B-13	Field analysis of soil
		N/A	$\beta/\gamma$ 90.1	pCi/gm		
16	Direct	N/A	$\alpha$ 0	pCi/gm	C-2	Field analysis of soil
		N/A	$\beta/\gamma$ 120.7	pCi/gm		
17	Direct	N/A	$\alpha$ 3.0	pCi/gm	C-4	Field analysis of soil
		N/A	$\beta/\gamma$ 46.0	pCi/gm		
18	Direct	N/A	$\alpha$ 60	pCi/gm	C-6	Field analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
19	Direct	N/A	$\alpha$ 20	pCi/gm	C-8	Field analysis of soil
		N/A	$\beta/\gamma$ 7.0	pCi/gm		
20	Direct	N/A	$\alpha$ 20	pCi/gm	C-10	Field analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
21	Direct	N/A	$\alpha$ 35.3	pCi/gm	C-12	Field Analysis of soil
		N/A	$\beta/\gamma$ 55.7	pCi/gm		
22	Direct	N/A	$\alpha$ 80	pCi/gm	C-14	Field Analysis of soil
		N/A	$\beta/\gamma$ 70.1	pCi/gm		
23	Direct	N/A	$\alpha$ 20	pCi/gm	D-3	Field Analysis of soil
		N/A	$\beta/\gamma$ 61.2	pCi/gm		
24	Direct	N/A	$\alpha$ 33.5	pCi/gm	D-5	Field Analysis of soil
		N/A	$\beta/\gamma$ 0	pCi/gm		
25	Direct	N/A	$\alpha$ 60	pCi/gm	D-7	Field Analysis of soil
		N/A	$\beta/\gamma$ 54.1	pCi/gm		
26	Direct	N/A	$\alpha$ 50.3	pCi/gm	D-9	Field Analysis of soil
		N/A	$\beta/\gamma$ 32.6	pCi/gm		
27	Direct	N/A	$\alpha$ 40.3	pCi/gm	D-11	Field Analysis of soil
		N/A	$\beta/\gamma$ 110.3	pCi/gm		
28	Direct	N/A	$\alpha$ 40.2	pCi/gm	D-13	Field Analysis of soil
		N/A	$\beta/\gamma$ 66.2	pCi/gm		
29	Direct	N/A	$\alpha$ 24	pCi/gm	E-2	Field Analysis of soil
		N/A	$\beta/\gamma$ 90	pCi/gm		

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150714-1

Map: 1 - COMMON\MISC DIAGRAMS\BLANK MAP

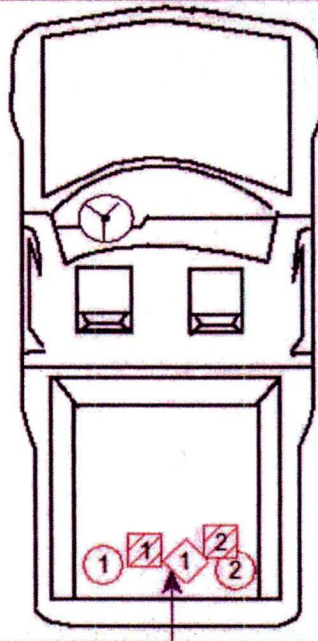
#	Type	Inst.	Value	Units	Position	Notes
30	Direct	N/A	$\alpha$ 110.3	pCi/gm	E-4	Field Analysis of soil
		N/A	$\beta/\gamma$ 81	pCi/gm		
31	Direct	N/A	$\alpha$ 110	pCi/gm	E-6	Field Analysis of soil
		N/A	$\beta/\gamma$ 58.1	pCi/gm		
32	Direct	N/A	$\alpha$ 3	pCi/gm	E-8	Field Analysis of soil
		N/A	$\beta/\gamma$ 76.6	pCi/gm		
33	Direct	N/A	$\alpha$ 60	pCi/gm	E-10	Field Analysis of soil
		N/A	$\beta/\gamma$ 16	pCi/gm		
34	Direct	N/A	$\alpha$ 0	pCi/gm	E-12	Field Analysis of soil
		N/A	$\beta/\gamma$ 110	pCi/gm		
35	Direct	N/A	$\alpha$ 60	pCi/gm	E-14	Field Analysis of soil
		N/A	$\beta/\gamma$ 63.1	pCi/gm		
36	Direct	N/A	$\alpha$ 0	pCi/gm	F-3	Field Analysis of soil
		N/A	$\beta/\gamma$ 111	pCi/gm		
37	Direct	N/A	$\alpha$ 0	pCi/gm	F-4	Field Analysis of soil
		N/A	$\beta/\gamma$ 79.2	pCi/gm		
38	Direct	N/A	$\alpha$ 10	pCi/gm	F-5	Field Analysis of soil
		N/A	$\beta/\gamma$ 76.9	pCi/gm		
39	Direct	N/A	$\alpha$ 5.1	pCi/gm	F-7	Field Analysis of soil
		N/A	$\beta/\gamma$ 97.2	pCi/gm		
40	Direct	N/A	$\alpha$ 30	pCi/gm	F-9	Field Analysis of soil
		N/A	$\beta/\gamma$ 69.3	pCi/gm		
41	Direct	N/A	$\alpha$ 40	pCi/gm	F-11	Field Analysis of soil
		N/A	$\beta/\gamma$ 25.4	pCi/gm		
42	Direct	N/A	$\alpha$ 40	pCi/gm	F-13	Field Analysis of soil
		N/A	$\beta/\gamma$ 25.2	pCi/gm		
43	Direct	N/A	$\alpha$ 0	pCi/gm	G-2	Field Analysis of soil
		N/A	$\beta/\gamma$ 60.7	pCi/gm		
44	Direct	N/A	$\alpha$ 80	pCi/gm	G-3	Field Analysis of soil
		N/A	$\beta/\gamma$ 86.6	pCi/gm		
45	Direct	N/A	$\alpha$ 0	pCi/gm	G-4	Field Analysis of soil
		N/A	$\beta/\gamma$ 93	pCi/gm		
46	Direct	N/A	$\alpha$ 0	pCi/gm	G-6	Field Analysis of soil
		N/A	$\beta/\gamma$ 67.4	pCi/gm		
47	Direct	N/A	$\alpha$ 25	pCi/gm	G-8	Field Analysis of soil
		N/A	$\beta/\gamma$ 53.2	pCi/gm		
48	Direct	N/A	$\alpha$ 41.3	pCi/gm	G-10	Field Analysis of soil
		N/A	$\beta/\gamma$ 13.7	pCi/gm		
49	Direct	N/A	$\alpha$ 0	pCi/gm	G-12	Field Analysis of soil
		N/A	$\beta/\gamma$ 25.9	pCi/gm		
50	Direct	N/A	$\alpha$ 100	pCi/gm	G-14	Field Analysis of soil
		N/A	$\beta/\gamma$ 51.3	pCi/gm		
	Posting		CA			
	Posting		RBA			
	Text		745-N PAD			
	Text		NORTH			Concrete slab was removed prior to soil sampling and surveys for roll back efforts.

VSDS Standard Map RSLs

Map: 2 TRUCK-PICK-UP

Survey #: DDSG-M-20150714-1

Date/Time: 07/14/2015 07:30



LOAD BEARING AREA VEHICLE #G42-1901K

Comments:

Type: Other - Roll Back Survey

Symbol Legend (for example only): RWP #: 15-SDD-102



Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Location Code: COMMON

Location Description: TRUCK-PICK-UP

Summary of Highest Readings  
(All available values may not be listed)

Smears	Air Samples & Wipes
2) <20 DPM/100 cm <sup>2</sup> α	Wipe 2) ND DPM/Wipe α
2) <200 DPM/100 cm <sup>2</sup> β/γ	Wipe 2) ND DPM/Wipe β/γ
1) <1000 DPM/100 cm <sup>2</sup> Tritium	

Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015

Bldg/Area Name: VEHICLES TRAILERS

Document #: SGCP-SAP-2015-00001

Survey #: DDSG-M-20150714-1 - PDF Generated On: 09/23/2015 08:31

Image File: COMMON\VEHICLES TRAILERS\TRUCK-PICK-UP

Page 7 of 15

VSDS Standard Map RSLs

**Data Point Details**

Survey #: **DDSG-M-20150714-1**

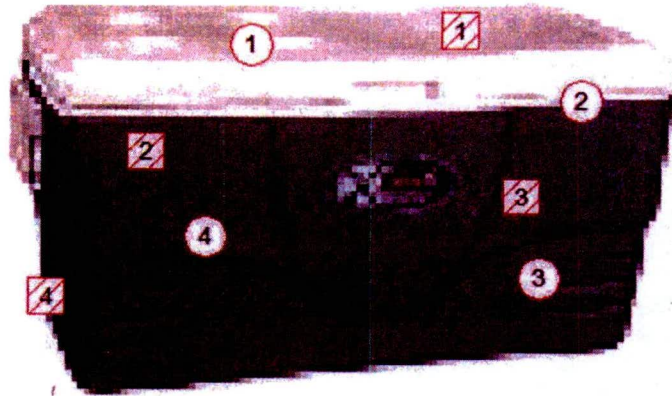
Map: **2 - COMMONVEHICLES TRAILERS\TRUCK-PICK-UP**

#	Type	Inst.	Value	Units	Position	Notes
1	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
		N/A	Tritium < 1000	DPM/100 cm <sup>2</sup>		
2	Smear	N/A	$\alpha < 20$	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma < 200$	DPM/100 cm <sup>2</sup>		
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
2	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
1	Direct	N/A	$\alpha$ ND	DPM/100 cm <sup>2</sup> (T)		
		N/A	$\beta/\gamma$ ND	DPM/100 cm <sup>2</sup> (T)		
	Text		LOAD BEARING AREA VEHICLE #G42-1901K			RECEIPT SURVEY OF COOLERS TO 772-7B

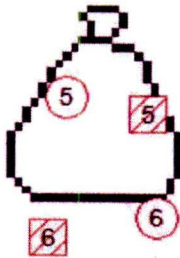
VSDS Standard Map RSLs

Map: 3 COOLER Survey #: DDSG-M-20150714-1 Date/Time: 07/14/2015 07:30

REPRESENT COOLER #136 & #912



DR 2  
END  
SND  
ND



DR 1  
END  
SND  
ND

BAG OF SAMPLES

Comments:

Summary of HUBBLY Readings (All available readings may not be listed)	
Smear	Wipe Samples & Wipes
6) <20 DPM/100 cm2 $\alpha$	Wipe 6) ND DPM/Wipe $\alpha$
6) <200 DPM/100 cm2 $\beta/\gamma$	Wipe 6) ND DPM/Wipe $\beta/\gamma$
6) <1000 DPM/100 cm2 Tritium	

Type: Other - Roll Back Survey

Symbol Legend (for example only) RWP #: 15-SDD-102



Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015

Location Code: SGCP

Bldg/Area Name: Misc. Stuff

Location Description: COOLER

Document #: SGCP-SAP-2015-00001

Image File: SGCP\Misc. Stuff\COOLER

Survey #: DDSG-M-20150714-1 - PDF Generated On: 09/23/2015 08:31

VSDS Standard Map RSLs

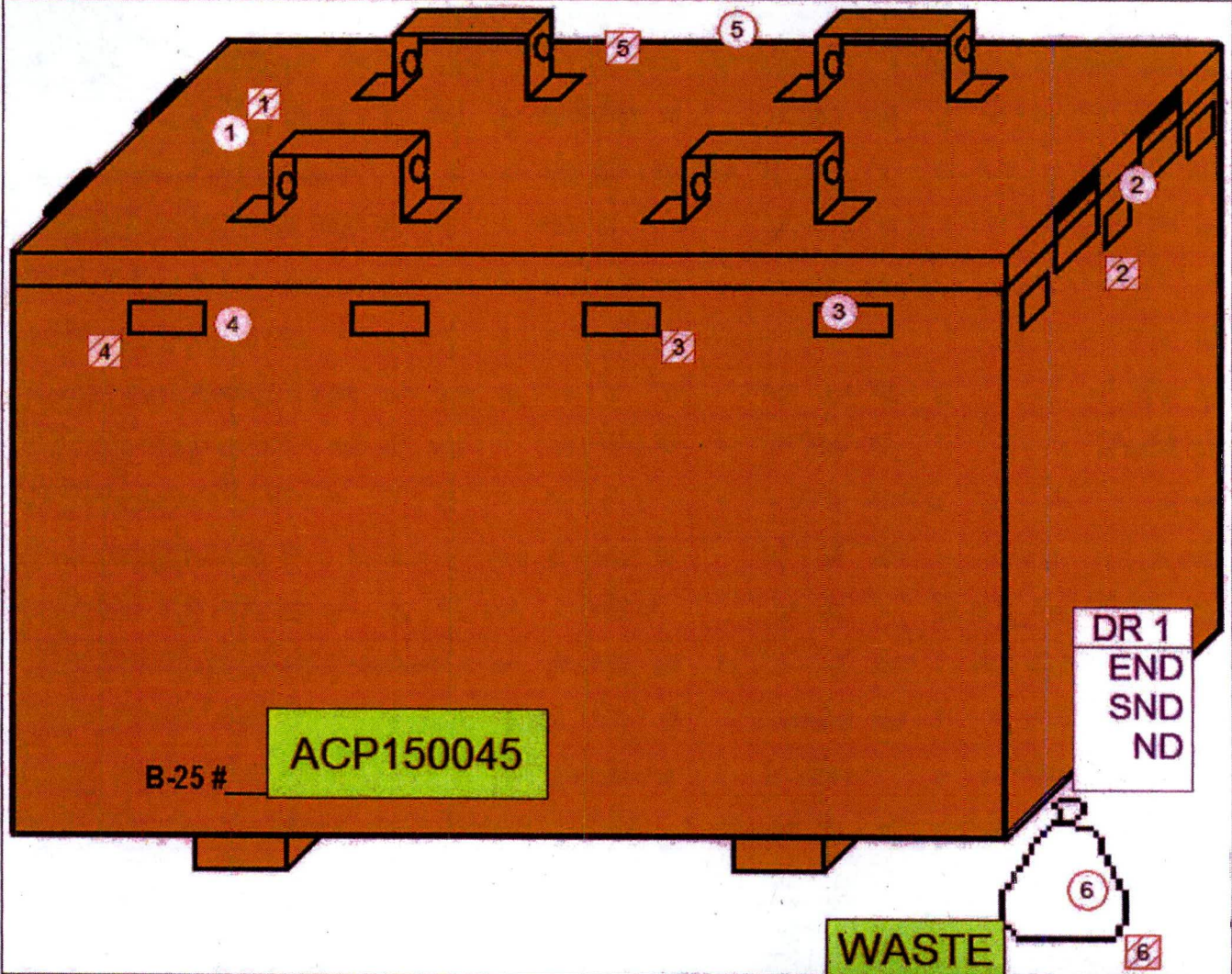
**Data Point Details**

Survey #: DDSG-M-20150714-1  
 Map: 3 - SGCPMisc. StuffCOOLER

#	Type	Inst.	Value	Units	Position	Notes
1	DR $\gamma$	N/A	E ND	mrem/hr	BAGS OF SAMPLES IN BAG	
		N/A	S ND	mrem/hr		
		N/A	ND	mrem/hr		
2	DR $\gamma$	N/A	E ND	mrem/hr	COOLERS	
		N/A	S ND	mrem/hr		
		N/A	ND	mrem/hr		
1	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
2	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
3	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
4	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
5	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
6	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
2	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
3	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
4	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
5	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
6	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
	Text		REPRESENT COOLER #136 & #912			SOIL SAMPLES WERE PLACED IN COOLER FOR TRANSPORT TO 772-7B
	Text		BAG OF SAMPLES			BAGS OF SOIL SAMPLES WERE PLACED IN TWO BIG BAGS.

VSDS Standard Map RSLs

Map: 4 SINGLE B25 001 Survey #: DDSG-M-20150714-1 Date/Time: 07/14/2015 07:30



Comments:

Summary of Highest Readings  
(All available values may not be listed)

Smears	Air Samples & Wipes
6) <20 DPM/100 cm <sup>2</sup> α	Wipe 6) ND DPM/Wipe α
6) <200 DPM/100 cm <sup>2</sup> β/γ	Wipe 6) ND DPM/Wipe β/γ
6) <1000 DPM/100 cm <sup>2</sup> Tritium	

Type: Other - Roll Back Survey

Symbol Legend (for example only) RWP #: 15-SDD-102


Unless otherwise noted, dose rates in mrem/hr.

Lead Inspector: KING, JEREMY T

Status: Approved by: JOYNER, GREGORY DEVON, 09/23/2015

Location Code: COMMON

Bldg/Area Name: CONTAINERS

Location Description: SINGLE B25 001

Document #: SGCP-SAP-2015-00001

Image File: COMMON\CONTAINERS\SINGLE B25 001

Survey #: DDSG-M-20150714-1 - PDF Generated On: 09/23/2015 08:31

VSDS Standard Map RSLs

Data Point Details

Survey #: DDSG-M-20150714-1

Map: 4 - COMMON\CONTAINERS\SINGLE B25 001

#	Type	Inst.	Value	Units	Position	Notes
1	DR $\gamma$	N/A	E ND	mrem/hr	WASTE AND B-25	
		N/A	S ND	mrem/hr		
		N/A	ND	mrem/hr		
1	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
2	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
3	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
4	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
5	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
6	Smear	N/A	$\alpha$ <20	DPM/100 cm <sup>2</sup>		
		N/A	$\beta/\gamma$ <200	DPM/100 cm <sup>2</sup>		
		N/A	Tritium <1000	DPM/100 cm <sup>2</sup>		
1	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
2	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
3	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
4	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
5	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
6	Wipe		$\alpha$ ND	DPM/Wipe		
			$\beta/\gamma$ ND	DPM/Wipe		
	Text		WASTE			SOP waste from 745-N PAD
	Text		ACP150045			WASTE WAS PLACED IN B-25

VSDS Standard Map RSLs

**Attachments**

Order	Filename	Description	Pages
1	49-106.pdf	Soil Sample Analysis Data Sheet	1
2	0948776.pdf	Labatory Tritium Soil Analysis Data Sheet	1

# Soil Sample Analysis Index

RSLs Location No.	Field Sample No.	RCO Tracking No.	Alpha Activity (pCi/gm)	Beta Activity (pCi/gm)	Sum of Fractions	RSLs Location No.	Field Sample No.	RCO Tracking No.	Alpha Activity (pCi/gm)	Beta Activity (pCi/gm)	Sum of Fractions
1	A-2	N/A	4.00	24.00	N/A	50	G-14	N/A	10.4	7.60	N/A
2	A-4	N/A	10.2	13.8	N/A						
3	A-6	N/A	5.78	6.72	N/A						
4	A-8	N/A	3.30	5.82	N/A						
5	A-10	N/A	10.2	8.60	N/A						
6	A-12	N/A	5.63	7.38	N/A						
7	A-14	N/A	4.37	9.02	N/A						
8	B-1	N/A	4.86	6.22	N/A						
9	B-3	N/A	10.4	6.95	N/A						
10	B-5	N/A	5.84	7.95	N/A						
11	B-7	N/A	11.0	8.19	N/A						
12	B-8	N/A	7.99	9.20	N/A						
13	B-9	N/A	8.71	11.4	N/A						
14	B-11	N/A	8.07	7.79	N/A						
15	B-13	N/A	5.07	5.57	N/A						
16	C-2	N/A	8.31	8.81	N/A						
17	C-4	N/A	5.74	5.01	N/A						
18	C-6	N/A	10.6	6.97	N/A						
19	C-8	N/A	8.14	6.83	N/A						
20	C-10	N/A	5.04	3.88	N/A						
21	C-12	N/A	7.66	3.05	N/A						
22	C-14	N/A	10.4	6.47	N/A						
23	D-3	N/A	9.11	6.85	N/A						
24	D-5	N/A	10.5	5.12	N/A						
25	D-7	N/A	6.36	6.42	N/A						
26	D-9	N/A	8.18	6.49	N/A						
27	D-11	N/A	11.6	7.75	N/A						
28	D-13	N/A	5.52	7.80	N/A						
29	E-2	N/A	12.4	6.34	N/A						
30	E-4	N/A	19.6	9.98	N/A						
31	E-6	N/A	7.95	5.09	N/A						
32	E-8	N/A	8.76	4.86	N/A						
33	E-10	N/A	6.55	6.05	N/A						
34	E-12	N/A	4.00	3.78	N/A						
35	E-14	N/A	6.34	6.97	N/A						
36	F-3	N/A	10.1	6.93	N/A						
37	F-4	N/A	7.94	8.91	N/A						
38	F-5	N/A	17.9	9.80	N/A						
39	F-7	N/A	24.1	9.18	N/A						
40	F-9	N/A	11.5	9.07	N/A						
41	F-11	N/A	7.61	5.69	N/A						
42	F-13	N/A	3.59	6.02	N/A						
43	G-2	N/A	5.95	8.16	N/A						
44	G-3	N/A	8.87	5.31	N/A						
45	G-4	N/A	3.22	3.74	N/A						
46	G-6	N/A	14.3	11.9	N/A						
47	G-8	N/A	4.62	6.23	N/A						
48	G-10	N/A	7.08	12.0	N/A						
49	G-12	N/A	11.2	5.91	N/A						
Reviewed by (print name)						Signature			Date		

N

A