OPERATION AND MAINTENANCE
Activity Plan

Repair Domestic Water Leak North of 736-A

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1. INTRODUCTION

The Operation and Maintenance (O&M) Plan for the repair of the domestic water leak in A-Area north of 736-A will provide a means by which activities can commence within A-Area, while protecting human health and the environment, and minimizing the impact to long term characterization and remediation efforts. The excavation site for the leak is near the A-Area Abandoned Process Sewer Lines RCRA/CERCLA Unit (Waste Unit # 562).

This O&M Activity Plan is defined as a "minor intrusive activity" based on the soil excavation meeting the definition of both "minor" and "intrusive" as defined in the SRS Operations and Maintenance Plan(RCRA/CERCLA), WSRC-RP-93-904.

2. AREA DESCRIPTION AND CONDITIONS

The work area is the domestic water line north of 736-A.

Contaminants of interest near the work area include:

Unit 562 "A-AREA PROCESS SEWER LINES AS ABANDONED, NBN".
Contaminants of interest near the work area include :Arsenic, barium, cadmium, chromium, copper, iron, magnesium, manganese, nickel, lead, zinc, mercury, tritium, cobalt-60, thorium-232, cesium-137, plutonium-239, strontium-90, and isotopes of uranium.

3. 0 & M ACTIVITY

A. O&M Activity Description

The O&M activity involves :
Site Services personnel to excavate to identify and correct/repair underground leak on the domestic water system located north of 736-A as directed by Team Lead and scope of work.

ALL EXCAVATED SOIL IS TO BE RETURNED TO ITS ORIGINAL LOCATION UPON TASK COMPLETION.

B. O&M Activity Sampling and Monitoring for Health and Safety

The work area will be barricaded with rope or rigid handrail to ensure that access is controlled for personnel safety around the work area.

Worker health and safety will be directed and controlled as required in the work package and Assisted hazard Analysis.

C. Health and Safety Plan
The health and safety concerns involve worker exposure to contaminants of interest listed in Section 2 above. The work will be completed in accordance with the requirements stated in the AHA. The safety requirements and personal protective equipment described in the AHA are appropriate for the potential hazards of the waste unit.

D. Characterization and Sampling Plan for the Affected Area within the Unit
A formal sampling plan will be utilized for work in this area. The sampling a characterization for this minor intrusive O&M activity will be per the Sampling Plan written by SRNL RCO. Material removed as part of the excavation will be returned as backfill when the job is completed.
Soil sampling will be performed per procedure 5Q1.2-485, and analyzed per 5Q1.2-303. If any contamination is detected during sampling activities, a Timeout will be taken and the area will be posted per 5Q1.1-518. If any radioactive contamination is found from sampling, the ECA, along with RP, will devise an alternate plan by which to carry out the water leak repair.

E. Contaminated Materials Management and/or Disposal
Any waste materials generated during this activity will be disposed of as appropriate . If media (pipe and other waste materials) is determined to be "clean," normal work practices would occur. This waste will be managed as appropriate per facility Waste Management and ECA guidance, and handled in accordance with existing SRNS waste guidance procedures. Clean soil can be put back in place once the leak repair is complete.

F. Environmental Plans and Permit Modification Requests:
This activity is not expected to involve other environmental plans / permits, required maintenance and inspections, or erosion control practices.

4. CONTINGENCY PLAN
If at any time during the implementation of the activity, the conditions change, such that the activity is no longer considered "minor" (greater than 10% of a waste unit area impacted or disturbed), the Shift Operations Manager (SOM) shall be notified and the Facility Manager (or designee) or the ECA shall:

• Immediately notify the SRNS-OSC. The SRNS-OSC will notify the DOE-OSC

• Contain and stabilize the area, investigate as necessary to determine the necessary change in the activity plan, secure the area, and stop work.

- Update the SRNS-OSC as to the findings and the requested path forward. The SRNS-OSC will communicate the information to the DOE-OSC and obtain concurrence on the path forward.

5. DOCUMENTATION & REPORTING

The Project Manager will transmit the following documentation to the SRNS-OSC by the 20th day of the month the activity was completed:

- the signed O&M plan
- Any sampling and characterization data collected,
- The quantity of contaminated materials, if generated.
- Treatment, storage, and disposal location of contaminated material, if generated.

References

1. WSRC-RP-96-45 , Savannah River Site Plan for Performing Maintenance in Federal Facility Agreement Area (O&M) Plan (U), December **15,** 1996

2. AHA # SUD-18861 R0.

3. WO# 1763357 Excavate to Repair Domestic Water leak North of 736-A.