MINOR

OPERATION AND MAINTENANCE

18-010

Activity Plan

EXCAVATE UNDERGROUND COOLING WATER RETURN LINE EAST OF 221-H

WORK ORDER NO: 01638275

SITE EVALUATION AREA

RCRA/CERCLA (C-1)

Prepared by: _____ 3/14/18
Environmental Compliance Authority — Date

Approved by: _____ 3-14-18
Generator Certification Official — Date

Approved by: _____ 3-14-18
Radiological Control Supervisor — Date

Approved by: _____ 3-14-18
Construction Discipline Engineer — Date

Approved by: _____ 3/14/18
H Outside Facilities Operations Manager — Date

1.0 Introduction

The purpose of this Operation and Maintenance (O&M) Plan is for excavation of soil, on the west side of 211-H process vessels and cold chemical tanks, to uncover the source of the sinkhole near Column 37. The presumption is that the cooling water line located 9-feet below grade may have been breached due to graphitic corrosion. This is a minor intrusive activity because excavating to expose the pipe will remove (10' x 10' x 12') approximately 1200 ft^3 (~ 60 tons) of soil but will disturb less than 10% of the surface area of the RCRA/CERCLA Unit.

The O&M Plan documents the guidance by which the excavation is to be performed within this RCRA/CERCLA Unit/SE Area. This plan will document whether hazards are present that would impact human health and the environment. This O&M Plan is defined as "minor intrusive activity" based on the soil removal meeting the definition of both "minor" and "intrusive" as defined in the SRS Operation and Maintenance Plan. This activity can be done per the WSRC-RP-96-45 "Plan for Performing Maintenance in Federal Facility Agreement Areas."

2.0 Area Description and Conditions

RCRA/CERCLA Unit/ SE Area	Assessment Status	Assessment Phase
591	H Area Process Sewer Lines as Abandoned, NBN	Pending
549	Eastern Groundwater Operable Unit	Pending
344	Sandblast Area, CMH-001	Pending

3.0 O&M Activity

A. O&M Activity Description

This project activity will require excavation of soil. The removal process will occur adjacent to the roadway near the 211-H chemical tanks (adjacent to Cold Chemical Tank 22). There will be approximately 1200 cubic feet of soil removed during the excavation.

ALL EXCAVATED SOILS WILL BE RETURNED TO THE ORIGINAL LOCATION OF SOIL DISTURBANCE. THE DISPOSAL OF ANY SOIL WILL BE PER THE ENVIRONMENTAL COMPLIANCE AUTHORITY (ECA) AND RADIOLOGICAL PROTECTION (RP) DIRECTION.

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

Soil sampling will be conducted in accordance with 5Q1.2 Procedure 485 and Construction's Soil Sampling Plan (WO# 1638275). Safety glasses and work gloves will be worn. Normal RCO coverage will be provided as determined by RCO.

C. Health and Safety Plan (HASP)

No Health and Safety Plan will be required due to the absence of chemical or radiological hazards to personnel. Previous soil disturbance work in this specific area have shown no chemical or radiological hazards.

D. Characterization and Sampling Plan for the Affected Area

Previous sampling campaigns (LEU Loading Project and Utility Pole Replacement Project, O&M 04-005) have not shown indications of chromium, lead, or beta-gamma contamination.

E. Contaminated Materials Management and/or Disposal

Soil removal is being performed in a non-radiological area. However, any soil removed will be managed based sampling and analysis. Clean soil will be returned to the excavation site. Contaminated soil will be dispositioned in accordance with the SRS 1S Manual per GCO instructions. Initial samples will be taken to the 4' level and after the excavation has reached the 4' level the samples will be completed to the 8' level and then from the 8' level to the 12' level.

F. Environmental Plans and Permit Modification Requests

Other environmental plans are not required for this activity. No permit modifications will be required because of this activity. Standard erosion control measures and storm water management (i.e. hay bales) will be used if required to avoid a sediment release to the streams.

4.0 Contingency Plan

If conditions change at any time during implementation of these activities such the any activity is no longer considered "minor" or any other unanticipated event occurs, the Environmental Compliance Authority shall be notified and 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.

5.0 Documentation and Reporting

The Construction Discipline Engineer will maintain the documentation listed below with the work package until task completion. Upon completion, it will be transmitted to the SRNS-OSC. Documentation includes the following information:

- The signed O&M Plan,
- Any sampling and characterization data collected,
- Quantity of contaminated materials generated, and
- Storage and disposal location of contaminated materials.

West Side of Cold Chemical Storage

(orange paint defines outer limit of planned excavation)



Facing North – Cold Chemical Storage

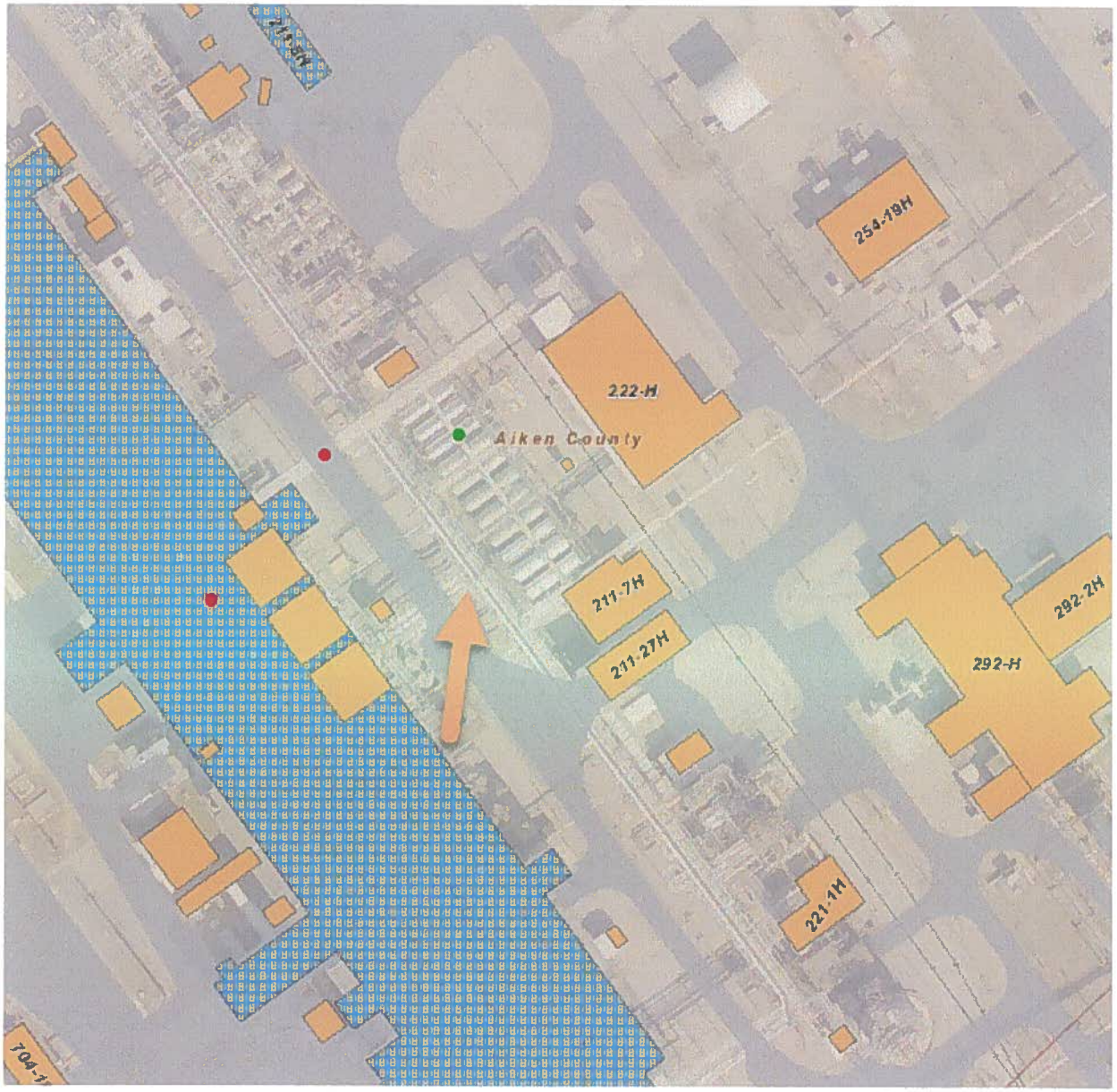


Facing True North – Chemical Tanks



General Separations Area

Aerial View



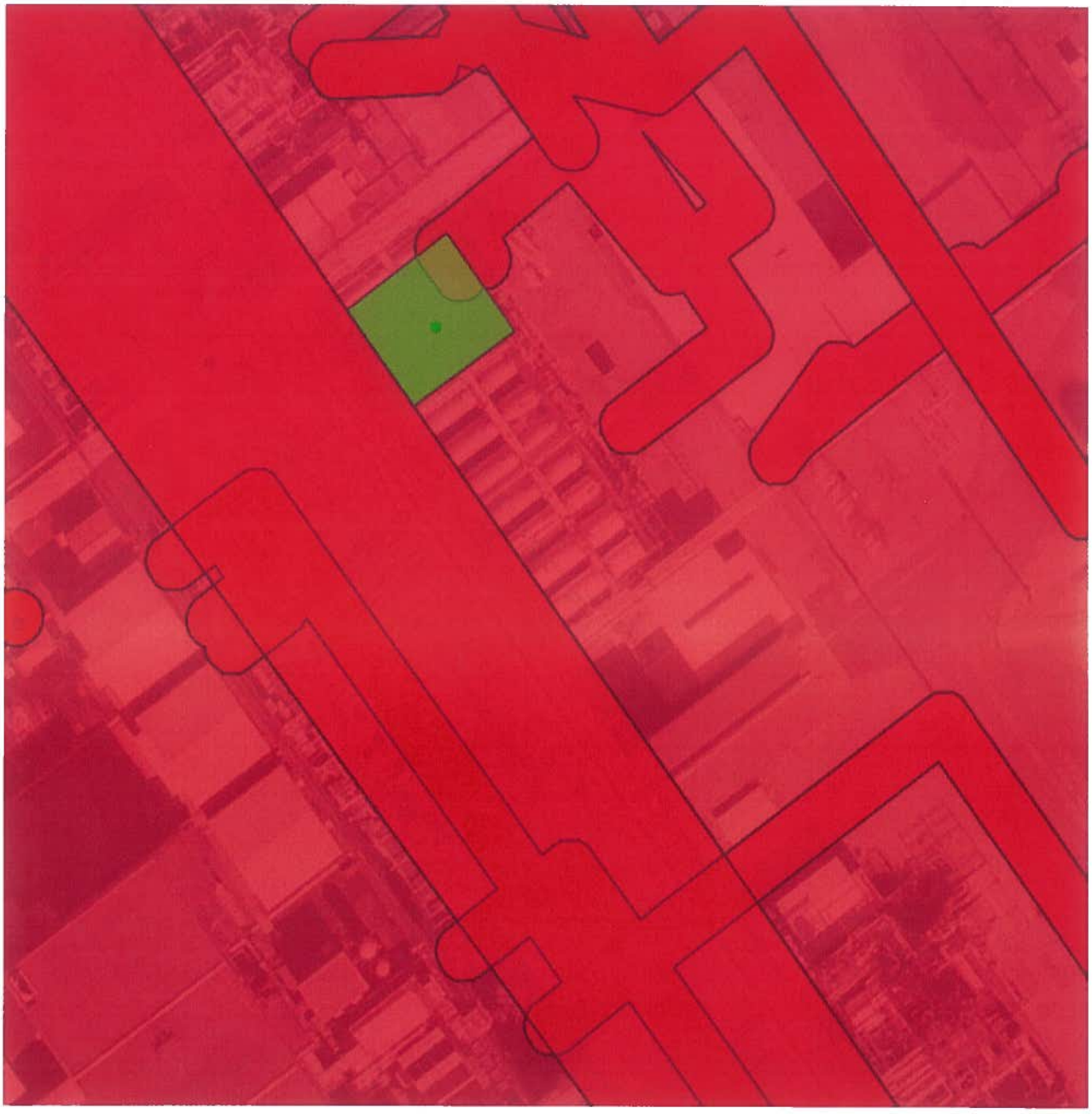
General Separations Area

Aerial View



General Separations Area Waste Boundaries

Aerial View



References

1. SRNS-OS-94-42, Federal Facility Agreement for the Savannah River Site, Administrative Document Number 89-05-FF, effective August 16, 1993, Revision 0 of Appendix C for Fiscal Year 2017.

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

3. Asset Suite WORK ORDER NO: 01638275