Minor

OPERATION AND MAINTENANCE

Activity Plan

Grout Manhole FH1 and Sanitary Sewer Redirect Line Near 772-1F

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Kristin Brant, RPD FLM — Date

1. INTRODUCTION

This Operation and Maintenance (O&M) Plan is being written to support work activities planned to grout manhole FH1 and the Sanitary Sewer Redirect Line near 772-1F. This activity will isolate the Sanitary Sewer lines from 772-1F. Although most O&M plans include excavation, no excavation is required for this action. The work meets the definition of an O&M activity because it is required to maintain or support the operations of a facility. This work will be within Site Index (SI) 563 and 141 as shown in Attachment 1 with the Site Evaluation Areas (SE Areas) identified in red (Ref. 1). This O&M Plan is characterized as "minor intrusive" because the activity will impact less than 10% of the surface area of the SE Areas.

The Deactivation Process of 772-1F involves the isolation of Sanitary Sewer lines. Isolation of the Sanitary Sewer lines will prevent future water from being drained into the Sanitary Sewer as deactivation efforts continue. To isolate the Sanitary Sewer lines at 772-1F two locations must be grouted. One being Manhole FH1 (on the west side of 772-1F) and the other being the redirect line (on the east side of 772-1F) between 772-1F and Manhole SA36 (Attachment 2).

2. AREA DESCRIPTION AND CONDITIONS

Contaminants of interest near the work area include:

The following Site Evaluation Areas exist within 200 feet of this work location:

1) Waste Unit ID 141, F-Area Inactive Process Sewer Lines from Building to the Security Fence, 081-1F
   Location: F-Area
   Contaminants: Unknown alpha, beta, gamma, and metals

2) Waste Unit ID 308, Low Level Radioactive Drain Lines from F-Area Laboratory
   Location: F-Area
   Contaminants: Unknown alpha, beta, gamma, and metals

3) Waste Unit ID 563, F-Area Process Sewer Lines as Abandoned, NBN
   Location: F-Area
   Contaminants: Unknown alpha, beta, gamma, and metals

4) Waste Unit ID 414, Spill on 04/24/91 of 0.11 Ci of Pu 239
   Location: F-Area
   Contaminants: Unknown alpha, beta, gamma, and metals

A site evaluation has not been performed and impacts to the IOU have not been determined.

3. O & M ACTIVITY

A. O & M Activity Description

The scope of this activity is to isolate the Sanitary Sewer from 772-1F. This will be done by grouting Manhole FH1 (on the west side of 772-1F) and the redirect line (on the east side of 772-1F) between 772-1F and Manhole SA36. In Manhole FH1 (Attachment 3), there are three lines. All the lines will be plugged, and the manhole will be filled with grout. At Manhole SA36 (Attachment 5), the redirect line will be plugged at the manhole and backfilled to the redirect line port (Attachment 4). Manhole SA36 will not be filled with grout, only the redirect line will. Manhole FH1 and the redirect line will be grouted using a grout mix design designation ZB-FF-8-D-B to permanently isolate the Sanitary Sewer connection at Manhole FH1 and the redirect line.

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

The identified units are in the FFA because of possible radiological contamination from past releases from Site operations.

Radiological surveys will be required during grouting within the buffer zone. If radiological contamination is encountered, Radiological Protection Department (RPD) will determine if protective equipment and/or personnel access restrictions are required.

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 (AHA).

C. Health and Safety Plan

The health and safety concerns involve worker exposure to contaminants of interest listed in Section 2 above.

The Work Order and/or AHA for these activities will contain instructions to comply with this plan.

The safety requirements and personal protective equipment described in these documents is appropriate for the potential hazards of the waste units.

D. Characterization and Sampling Plan for the Affected Area within the Unit

No material will be removed under this scope of work. If any unknown waste material is generated as a result of this activity, it will be managed and disposed of following the guidance of the F-Area Environmental Compliance Authority (ECA), Generation Certification Official (GCO) and RPD.

E. Contaminated Materials Management and/or Disposal

Radiological contamination is not expected within manhole FH1, the redirect line, and manhole SA36. All waste will be disposed of in accordance with guidance from the GCO and ECA.

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" (as defined in Reference 1) or any other unanticipated event occurs, the Project Manager or 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 AND REPORTING

The Project Manager or ECA will transmit the following documentation to the SRNS-OSC by the 31st day of the month the activity was completed:

- The signed O&M plan,
- Any sampling and characterization data collected,

The following information is not expected to be generated by this activity, but, if generated, will be forwarded to the SRNS-OSC:

- Quantity of contaminated materials generated, and
- Treatment, storage, and disposal location of contaminated material.

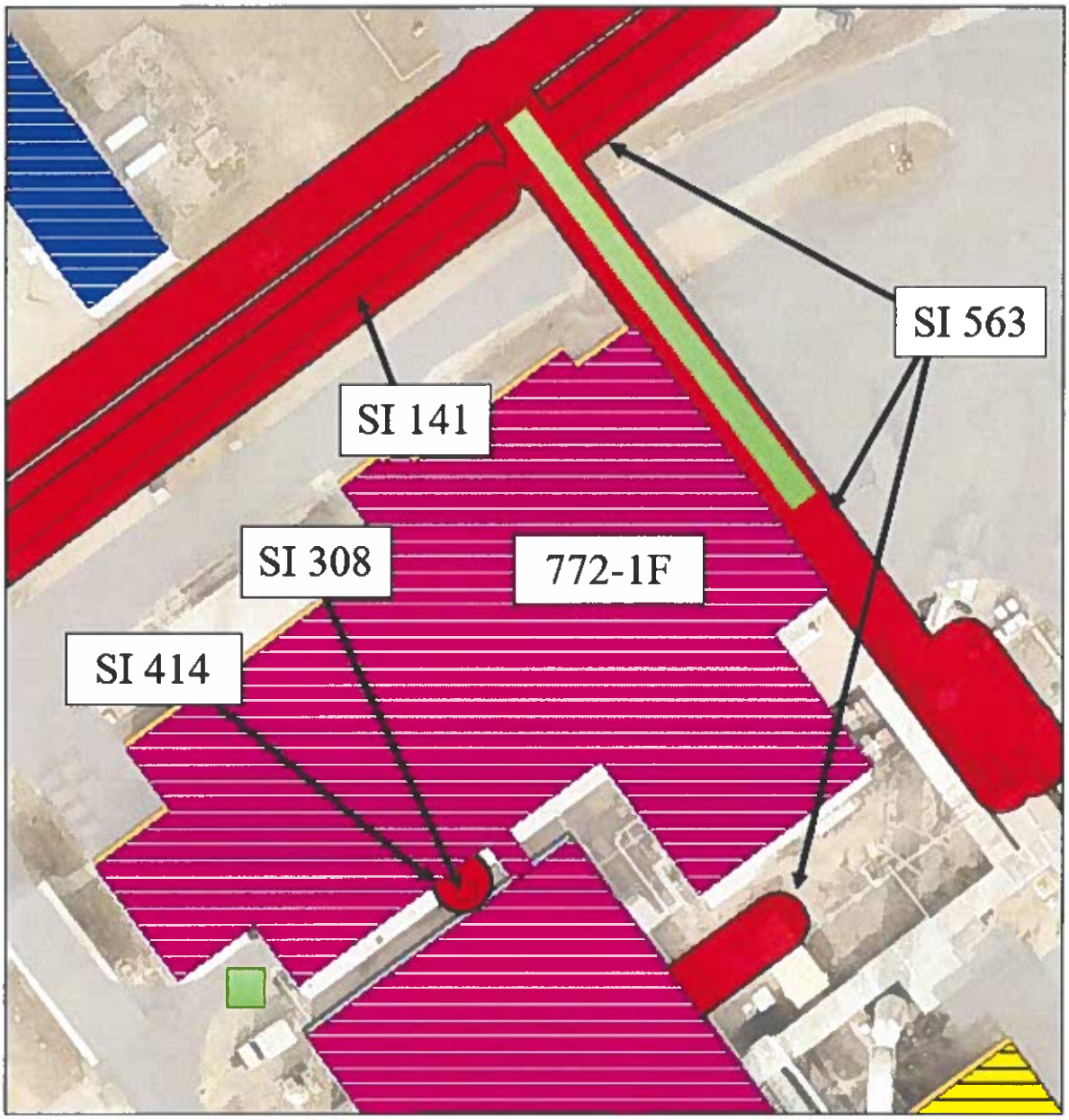
6. ATTACHMENTS

Attachment 1.	Potentially Impacted Site Evaluation Areas and O&M Activity Locations Drawing
Attachment 2.	Map of O&M Activity Locations
Attachment 3.	Photo of the Exterior of Manhole FH1
Attachment 4.	Photo of the Sanitary Sewer Redirect Line Port
Attachment 5.	Photo of Exterior of Manhole SA36

7. REFERENCES

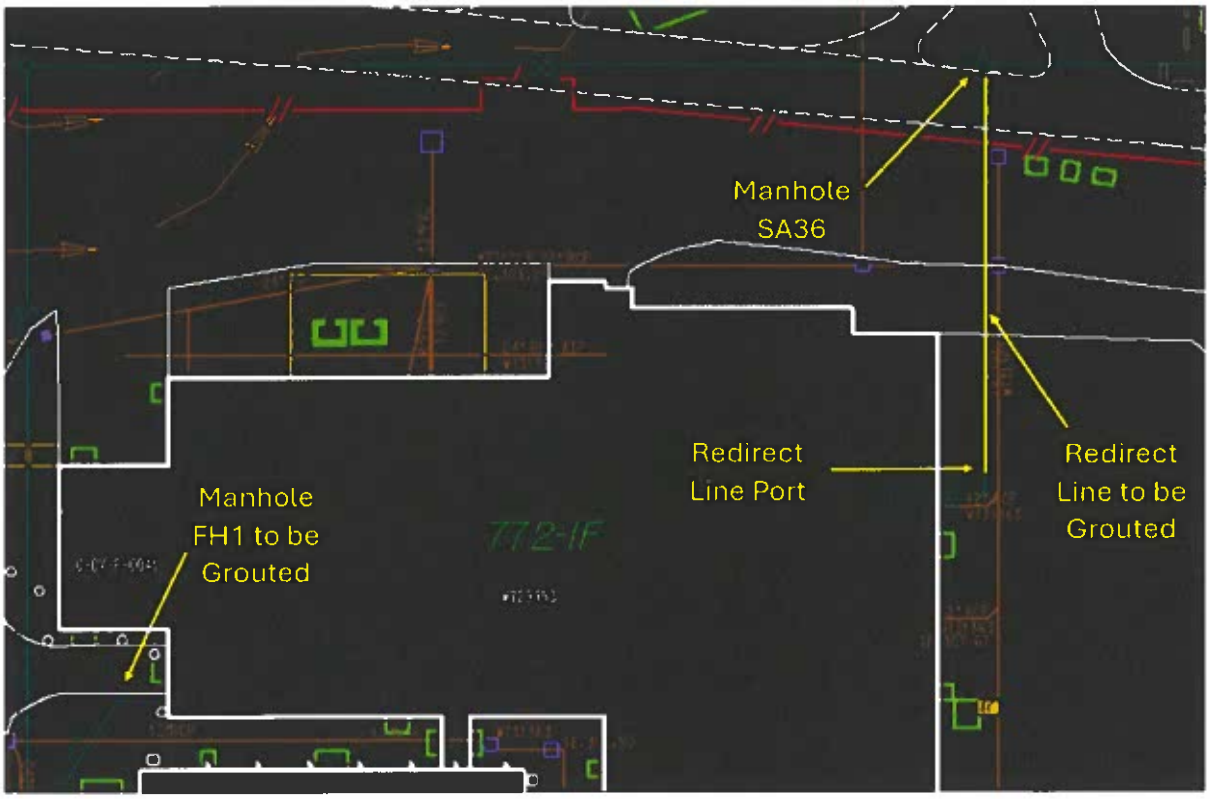
1. WSRC-RP-96-45, *Savannah River Site Plan for Performing Maintenance in Federal Facility Agreement Area (O&M) Plan (U)*, December 15, 1996.

ATTACHMENT 1
Potentially Impacted Site Evaluation Areas and O&M Activity Locations Drawing
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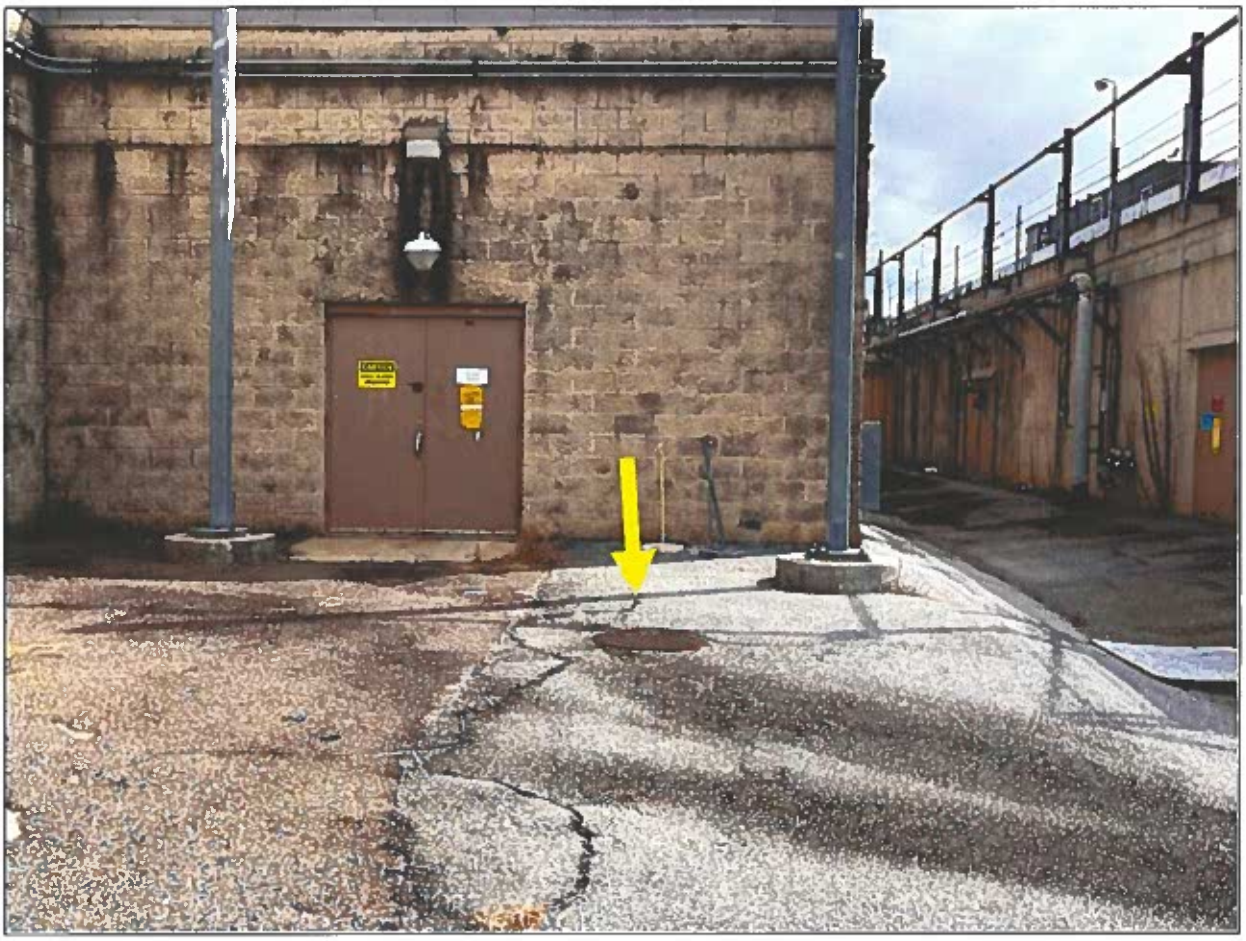


Site Evaluation Areas are identified in red. Locations of O&M activities have been denoted with a green square and rectangle.

ATTACHMENT 2
Map of O&M Activity Locations
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ATTACHMENT 3
Photo of the Exterior of Manhole FH1
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ATTACHMENT 4
Photo of the Sanitary Sewer Redirect Line Port
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ATTACHMENT 5
Photo of Exterior of Manhole SA36
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