



Scoping Summary for the Seventh Five-Year Remedy Review Report for Savannah River Site Operable Units with Native Soil Covers and/or Land Use Controls (U)

SRNS-RP-2023-00716

October 2023

DISCLAIMER

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1.0 BACKGROUND

The size of the Savannah River Site (SRS) Five-Year Remedy Review Reports has grown considerably since the first report was submitted to the U.S. Environmental Protection Agency (USEPA) and South Carolina Department of Health and Environmental Control (SCDHEC) in July 1997. These increases are primarily the result of increasing numbers of SRS remedial decisions requiring five-year remedy reviews, and new USEPA guidance and format requirements that are not easily implemented for a large National Priorities List site with numerous remedial decisions issued. In 2014, the Core Team (i.e., representatives from the U.S. Department of Energy [USDOE], SCDHEC, and USEPA) reached agreement during review and approval of the *Fourth Five-Year Remedy Review Report for the Savannah River Site* (SRNS-RP-2012-00011, Revision 1.1, November 2013) to submit future SRS Five-Year Remedy Review Reports in a phased approach rather than combining all operable unit (OU) reviews into a single document.

Agreement was reached during the May 2014 Core Team scoping meeting to group the OUs by the following remedy types: 1) native soil covers and/or land use controls (LUCs); 2) groundwater; 3) engineered cover systems¹; 4) geosynthetic or stabilization/solidification (S/S) cover systems; and 5) operating equipment. These groupings were chosen to provide the opportunity to effectively identify and resolve issues for similar remedies simultaneously and efficiently implement optimization initiatives for similar projects. The phased approach began with the submittal of the *Fifth Five-Year Remedy Report for Savannah River Site Operable Units with the Native Soil Covers and/or Land Use Controls* (SRNS-RP-2014-00902, Revision 0, December 2014) followed by the submittal of four additional reports to complete the Fifth Five-Year Remedy Review cycle.

In accordance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), remedy reviews are conducted every five years. Issuance dates for the Seventh Five-Year Remedy Review Reports will occur over a five-year period (2025-2029) as shown in Table 1. A complete list of OUs/decision documents and acronyms are provided in Table 2.

This scoping summary supports the development of the Seventh Five-Year Remedy Review Report for the SRS OUs with Native Soil Covers and/or LUCs. The implementation schedule for the Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs is provided in Figure 1.

2.0 PROBLEM WARRANTING ACTION

To remain in compliance with CERCLA and the NCP to not exceed the five years between OU/decision document reviews, a phased approach with a schedule for annual submittal of the Seventh Five-Year Remedy Review Reports is needed. To maintain this schedule and obtain the final signature for the last report no later than January 21, 2029, the Revision 0 submittal of the Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs is due on or before December 21, 2023.

¹ Engineered cover systems were formerly known as compacted clay cover systems in earlier five-year remedy review documentation. See Table 3.

3.0 SCOPE OF THE PROBLEM

This scoping summary addresses SRS OUs that implemented native soil covers and/or LUCs as the selected remedy and are grouped under the Native Soil Covers and/or LUCs category.

Native soil covers are often implemented at SRS to protect against human and/or environmental exposure to waste or contaminated material left in place. Native soil covers are appropriate when water infiltration and leaching of contaminants to groundwater is not a concern. Native soil covers may be combined with other remedial actions but require LUCs as a component of the remedy to preserve the integrity of the cover and limit use/exposure to underlying contamination.

LUCs are maintained for all OUs where hazardous substances, pollutants, or contaminants remain on-site or have been left in place above levels that are acceptable for unlimited use and unrestricted exposure. LUCs may be implemented as a stand-alone remedy or combined with other remedial actions. LUCs involve institutional controls (i.e., administrative controls) and engineering controls and can include monitoring, maintenance, reporting, access restrictions, signage, fencing, and land use restrictions. In older SRS remedy documents, the term “institutional controls or ICs” was often used in place of the broader LUC terminology.

The Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs includes a review of the following OUs:

- C-Area Operable Unit (CAOU)
- C-, K-, and L-Reactor Complexes (CKL-Rx)
- Early Construction and Operational Disposal Site (ECODs) L-1, N-2, P-2, and R-1A, -1B, -1C
- F-Area Burning/Rubble Pits (231-F, 231-1F, and 231-2F) (FBRP)
- Gunsite 012 OU (comprised of Gunsite 012 Rubble Pile [NBN] Rubble Pile Across from Gunsite 012, and ECODS G-3 [adjacent to Gunsite 012] [NBN])
- Heavy Equipment Wash Basin (NBN) (HEWB)
- K-Area Bingham Pump Outage Pit (643-1G) (KBPOP)
- L-Area and P-Area Bingham Pump Outage Pits (643-2G, 643-3G, and 643-4G) (L&PBPOP)
- Lower Three Runs Integrator Operable Unit (IOU) (comprised of PAR Pond (685-G) [Including the Pre-Cooler Ponds and Canals) and Old R-Area Discharge Canal [also known as Joyce Branch] [NBN])
- R-Area Bingham Pump Outage Pits (643-8G, 643-9G and 643-10G) and R-Area Unknown Pits #1, #2, and #3 (RBPOP)
- Silverton Road Waste Unit (731-3A) (SRWU)
- Wetland Area at Dunbarton Bay in Support of Steel Creek Integrator Operable Unit (WADB)

The OUs listed above were previously evaluated in the Sixth Five-Year Remedy Review Report except for the WADB and the upper portion of the Lower Three Runs IOU. The seventh five-year remedy review will be the first documented five-year remedy review for the entire Lower Three

Runs IOU and the WADB. PAR Pond (685-G) (Including Pre-Cooler Ponds and Canals) and the Tail Portion (Middle and Lower Subunits) of Lower Three Runs IOU were previously evaluated in the Sixth Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs.

The Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs will apply the *2016 Five-Year Review Recommended Template* (OLEM 9200.0-89, January 2016). Comments received from the USEPA during review of the *Fifth Five-Year Remedy Review for Savannah River Site Operable Units with Operating Equipment* (SRNS-RP-2017-00567, Revision 0, December 2017) recommended that the USDOE implement the *2016 Five-Year Review Recommended Template* (OLEM 9200.0-89, January 2016). The Five-Year Recommended Template amends Appendix E of the “*Comprehensive Five-Year Review Guidance*,” OSWER Directive 9355.7-03B-P, June 2001. The 2016 recommended template also replaces the *2011 Updated Five-Year Review Summary Form* (OSWER Directive 9200.2-105, December 2011) implemented for all SRS Fifth Five-Year Remedy Review reports and later submittals.

4.0 OBJECTIVE

The objective of the Five-Year Review team is to prepare an approvable Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs. The five-year report will document at the appropriate level of detail that each remedy is, or is not, protective of human health and the environment. Evaluations are based on relevant document reviews, data reviews and analyses, and site inspections. The following USEPA reference information will be used during preparation of the report:

- (1) *Comprehensive Five-Year Review Guidance*, EPA 540-R-01-007, Office of Emergency and Remedial Response, OSWER Directive 9355.7-03B-P, June 2001.
- (2) Recommended Evaluation of Institutional Controls: Supplement to the “*Comprehensive Five-Year Review Guidance*”, Office of Solid Waste and Environmental Control, OSWER Directive 9355.7-18, September 2011.
- (3) *Five-Year Review Recommended Template*, Office of Solid Waste and Emergency Response, OLEM 9200.0-89, January 2016.

5.0 RESPONSE

USDOE will prepare the Seventh Five-Year Remedy Review Report for OUs with Native Soil Covers and/or LUCs consistent with the *Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Native Soil Covers and/or Land Use Controls* (SRNS-RP-2018-00811, Revision 1, June 2019). The following tasks will be performed as part of the five-year review to determine the protectiveness of the native soil covers and/or LUCs:

- Review of OU-specific regulatory documentation including Records of Decisions (RODs), Early Action RODs, Interim RODs, and Explanations of Significant Difference.
- Review data, as applicable, based on ROD requirements, remedial action objectives (RAOs), and previous USDOE, USEPA, and SCDHEC decisions. Issues and recommendations that impact the protectiveness of the remedy will be documented in the Issues/ Recommendations section.

- Inspection of the OUs and documented interviews with maintenance personnel. The Five-Year Review Site Inspection Checklist will be streamlined to only publish the checklist sections that are applicable to the OU.
- Review changes in standards and to-be-considered guidance with respect to the protectiveness of the remedies. Current regulatory standards applicable to the OUs with native soil covers and/or LUCs include the following:
 - USEPA Regional Screening Levels for Non-Radiological Constituents (May 2023)
 - USEPA Preliminary Remediation Goals for Radionuclides (February 2023)
 - USEPA Maximum Contaminant Levels
- Update maps and figures as appropriate.

USEPA's Federal Facility CERCLA Five Year Reviews Enhancement Interagency National Workgroup recommended increased community involvement during the five-year remedy review process. The following community involvement activities will be applied to the remedy review reports as follows:

- A public notice will be published soon after the scoping meeting to inform the public that a remedy review will be conducted.
- A Fact Sheet for each remedy review report will be included when the three-Party signed reports are public noticed.

6.0 UNCERTAINTY

None

7.0 STRATEGY

- The USDOE will submit the Revision 0 Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs in December 2023. The format and level of detail for the report is consistent with the *Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with the Native Soil Covers and/or Land Use Controls* (SRNS-RP-2014-00902).
- The USDOE, SCDHEC, and USEPA will approve and sign the *Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or Land Use Controls* as a single five-year remedy review report. The document approval is based on a 90/90-day review cycle.
- USDOE will prepare an Environmental Bulletin for issuance to the public prior to submittal of the Revision 0 Seventh Five-Year Remedy Review document. A draft Environmental Bulletin will be transmitted informally to USEPA and SCDHEC for review and input.
- A draft Fact Sheet will be submitted with the Revision 0 Seventh Five-Year Remedy Review document for regulatory review and comment.
- A Core Team Meeting will be held after submittal of the Revision 0 Seventh Five-Year Remedy Review Report and prior to receipt of regulatory comments on this document.

- The Core Team will view drone footage of each of the OUs. After viewing the drone footage, OU-specific field visits will occur if requested by EPA and SCDHEC.
- A record of Core Team key agreements for the Seventh Five-Year Remedy Review Report phased approach is provided in Table 3.

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Scoping Summary for the Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs Savannah River Site



Figure 1. Seventh Five-Year Remedy Review Report for Native Soil Covers and/or LUCs Implementation Schedule

**Scoping Summary for the Seventh Five-Year Remedy
Review Report for SRS OUs with Native Soil Covers and/or LUCs
Savannah River Site**

Table 1. Seventh Five-Year Review Report Submittal Schedule (by Remedy)

Native Soil Cover and/or LUCs		Groundwater		Engineered Cover System		Geosynthetic or S/S Cover System		Operating Equipment	
<i>Rev. 0 Submittal Date</i>	<i>Issuance Year</i>	<i>Rev. 0 Submittal Date</i>	<i>Issuance Year</i>	<i>Rev. 0 Submittal Date</i>	<i>Issuance Year</i>	<i>Rev. 0 Submittal Date</i>	<i>Issuance Year</i>	<i>Rev. 0 Submittal Date</i>	<i>Issuance Year</i>
December 2023	2025	December 2024	2026	December 2025	2027	December 2026	2028	December 2027	2029
CAOU		CAGW		CSBRP		BAOU		A/M GW	
CKL-Rx		CMP Pits		DBRP		CRSB		ABRP/MCB/MBP	
ECODS L-1, N-2, P-2, and R-1A, -1B, -1C		DOSB		FBSB		DEXOU		AMRP	
ECODS N-1, CSSLP, Ford Building ^d		LASG		FHWMF ^c		ELLWF		CBRP	
FBRP		RAOU ^b		HHWMF ^c		FRB		DAOU	
Gunsite 012		RRSB		KBRP/KRP		FTF		FAGW	
HEWB				Met Lab HWMF ^c		GSACU		HAGW	
KBPOP				MHWMF ^c		HTF		MAOU	
L&PBPOP				MWMF		KRSB		MIPSL	
LTR IOU ^a including PAR Pond and Old R-Area Discharge Canal				SRL SB		LAOCB		PBRP	
RBPOP						L&CRSB		TNX Area	
SRWU						OFASB			
WADB ^a						PAOU			
						PRSB			
						RBRP/RRP			
						TAOU			

* Highlighted area identifies OUs evaluated for the seventh five-year remedy review reports due for submittal in 2023.

a OUs that were not previously evaluated in a five-year remedy review but are included in the seventh five-year review cycle.

b R-Reactor Complex will be discussed as part of the RAOU.

c Groundwater remedies associated with these OUs are being evaluated in the Seventh Five-Year Remedy Review for SRS OUs with Operating Equipment.

d OUs that were not evaluated in the seventh five-year review cycle because the issuance of their respective decision documents and implementation of the remedy occurred during or after development of their respective remedy review report and a remedy evaluation was premature.

Table 2. Five-Year Remedy Review Report Operable Units

#	Acronym	OPERABLE UNIT ^a	SEMS No. ^b
1	ABRP/MCB/MBP	A-AREA BURNING/RUBBLE PITS (731-A/1A) AND RUBBLE PIT (731-2A), MISCELLANEOUS CHEMICAL BASIN (731-4A) AND METALS BURNING PIT (731-5A)	28
2	AMRP	A-AREA MISCELLANEOUS RUBBLE PILE (731-6A)	30
3	A/M GW	A/M AREA GROUNDWATER	36 ^c
4	BAOU	B-AREA OPERABLE UNIT	48
5	CAOU	C-AREA OPERABLE UNIT	79
6	CBRP	C-AREA BURNING/RUBBLE PIT (131-C) AND OLD C-AREA BURNING/RUBBLE PIT (NBN)	31
7	CAGW	C-AREA GROUNDWATER	82
8	CRSB	C-AREA REACTOR SEEPAGE BASINS (904-66G AND 904-68G)	60
9	CKL-Rx	C-, K-, AND L-REACTOR COMPLEXES	79, 90, 91
10	CSBRP	CENTRAL SHOPS BURNING RUBBLE PITS (631-1G AND 631-3G)	50
11	CMP Pits	CHEMICALS, METALS, AND PESTICIDES PITS (080-170G, 080-171G, 080-180G, 080-181G, 080-182G, 080-183G, AND 080-190G)	24
12	DBRP	D-AREA BURNING/RUBBLE PITS (431-D AND 431-1D)	15
13	DEXOU	D-AREA EXPANDED OPERABLE UNIT [COMPRISED OF D-AREA ASH BASIN (488-D) AND D-AREA RUBBLE PIT (431-2D)]	67
14	DOSB	D-AREA OIL SEEPAGE BASIN (631-G)	27
15	DAOU	D-AREA OPERABLE UNIT	63
16	ELLWF	E-AREA LOW-LEVEL WASTE FACILITY (643-26E)	86
17	ECODS L-1, N-2, P-2, and R-1A, -1B, -1C	EARLY CONSTRUCTION AND OPERATIONAL DISPOSAL SITE L-1, N-2, P-2, AND R-1A, R-1B, R-1C	22
18	ECODS N-1, CSSLP, and Ford Building	EARLY CONSTRUCTION AND OPERATIONAL DISPOSAL SITE N-1 (NBN), CENTRAL SHOPS SCRAP LUMBER PILE (631-2G), AND BUILDING 690-N, PROCESS HEAT EXCHANGER REPAIR FACILITY (AKA FORD BUILDING)^e	93
19	FBRP	F-AREA BURNING/RUBBLE PITS (231-F, 231-1F, AND 231-2F)	14
20	FAGW	F-AREA GROUNDWATER OPERABLE UNIT	8 ^c
21	FHWMF	F-AREA HAZARDOUS WASTE MANAGEMENT FACILITY (904-41G, 904-42G, AND 904-43G)	6 ^c
22	FRB	F-AREA RETENTION BASIN (281-3F)	23
23	FBSB	FORD BUILDING SEEPAGE BASIN (904-91G)	58
24	FTF	F-AREA TANK FARM	23
25	GSACU	GENERAL SEPARATIONS AREA CONSOLIDATION UNIT (Comprised of Old Radioactive Waste Burial Ground [Including Solvent Tanks] [643-E], HP-52 Ponds, H-Area Retention Basin [281-3H] and Spill on 05/01/1956 of Unknown Amount of Retention Basin Pipe Leak [NBN], Warner's Pond [685-23G] and Spill On 03/08/1978 of Unknown Seepage Basin Pipe Leak in H-Area Seepage Basin [NBN] and Spill On 02/08/1978 of Unknown H-Area Process Sewer Line Cave-In [NBN])	32
26	Gunsite 012	GUNSITE 012 OU (Comprised of Gunsite 012 Rubble Pile [NBN], Rubble Pile Across from Gunsite 012 [NBN], and ECODS G-3 [Adjacent to Gunsite 012 [NBN]])	78
27	HAGW	H-AREA GROUNDWATER OU	9 ^c
28	HHWMF	H-AREA HAZARDOUS WASTE MANAGEMENT FACILITY (904-44G, 904-45G, 904-46G, AND 904-56G)	7 ^c

Table 2. Five-Year Remedy Review Report Operable Units (*continued/end*)

#	Acronym	OPERABLE UNIT ^a	SEMS No. ^b
31	KBPOP	K-AREA BINGHAM PUMP OUTAGE PIT (643-1G)	20
32	KBRP/KRP	K-AREA BURNING/RUBBLE PIT (131-K) AND RUBBLE PILE (631-20G)	40
33	KRSB	K-AREA REACTOR SEEPAGE BASIN (904-65G)	55
34	L&PBPOP	L & P BINGHAM PUMP OUTAGE PITS (643-2G, 643-3G, AND 643-4G)	26, 39
35	LAOCB	L-AREA OIL AND CHEMICAL BASIN (904-83G)	17
36	L&CRSB	L-AREA REACTOR SEEPAGE BASIN (904-64G) AND C-AREA REACTOR SEEPAGE BASIN (904-67G)	65, 60
37	LASG	L-AREA SOUTHERN GROUNDWATER	77
38	LTR IOU	LOWER THREE RUNS INTEGRATOR OPERABLE UNIT (COMPRISED OF PAR POND [685-G] (INCLUDING THE PRE-COOLER PONDS AND CANALS) AND OLD R-AREA DISCHARGE CANAL [ALSO KNOWN AS JOYCE BRANCH] [NBN])	35
39	MHWMF	M-AREA HAZARDOUS WASTE MANAGEMENT FACILITY (904-51G AND 904-112G)	1 ^c
40	MIPSL	M-AREA INACTIVE PROCESS SEWER LINE (081-M)	19
41	MAOU	M-AREA OPERABLE UNIT	92
42	Met Lab HWMF	METALLURGICAL LABORATORY HAZARDOUS WASTE MANAGEMENT FACILITY (904-110G)	2 ^c
43	MWMF	MIXED WASTE MANAGEMENT FACILITY (643-28E)	33 ^c
44	OFASB	OLD F-AREA SEEPAGE BASIN (904-49G)	16
45	PBRP	P-AREA BURNING/RUBBLE PIT (131-P)	59
46	PAOU	P-AREA OPERABLE UNIT	94
47	PRSB	P-AREA REACTOR SEEPAGE BASINS (904-61G, 904-62G, AND 904-63G)	66
48	RBPOP	R-AREA BINGHAM PUMP OUTAGE PITS (643-8G, 643-9G AND 643-10G) AND R-AREA UNKNOWN PITS #1, #2, AND #3	38
49	RBRP/RRP	R-AREA BURNING/RUBBLE PITS (131-R AND 131-1R) AND RUBBLE PILE (631-25G)	43
50	RAOU ^d	R-AREA OPERABLE UNIT	95
51	RRSB	R-AREA REACTOR SEEPAGE BASINS (904-57G, 904-58G, 904-59G, 904-60G, 904-103G, AND 904-104G) AND 108-4R OVERFLOW BASIN	25
52	SRWU	SILVERTON ROAD WASTE UNIT (731-3A)	13
53	SRL SB	SRL SEEPAGE BASINS (904-53G1, 904-53G2, 904-54G, AND 904-55G)	47
54	TAOU	T-AREA OPERABLE UNIT	96
55	TNX Area	TNX AREA OPERABLE UNIT	21, 29
56	WADB	WETLAND AREA AT DUNBARTON BAY IN SUPPORT OF STEEL CREEK INTEGRATOR OPERABLE UNIT (NBN)	71

- a OUs with approved or scheduled remedy decisions as of 2023 are shown. **Italicized** items indicate OUs discussed in this Five-Year Remedy Review Report.
- b SEMS number is based on the latest approved version of the FFA Appendix C.
- c RCRA unit with approved remedy decision document.
- d R-Reactor Complex will be discussed as part of the RAOU.
- e ROD was approved in August 2023. The OU was not evaluated in the seventh five-year remedy review cycle because the issuance of the ROD and implementation of the remedy occurred during or after development of the remedy review report and a remedy evaluation was premature.

Table 3. Record of Key Agreements

Date	Description of Agreement
May 12, 2014	<ul style="list-style-type: none"> Core Team agreed that a phased submittal of the Fifth Five-Year Remedy Review by remedy type was acceptable. USDOE will continue to coordinate with USEPA and SCDHEC to determine the number of annual submittals and schedule.
	<ul style="list-style-type: none"> Core Team agreed to streamline the Site Inspection Checklist to include only the checklist sections that are applicable to the OU, significantly reducing the number of published pages.
	<ul style="list-style-type: none"> USDOE will propose the document title (e.g., <i>Fifth Five-Year Remedy Review Report for Operable Units with Native Soil Covers and/or Land Use Controls</i>) for review by the Core Team during the Revision 0 review period.
	<ul style="list-style-type: none"> USEPA tracks five-year reviews by CERCLIS numbers so the document title was not as important for their administrative requirements.
	<ul style="list-style-type: none"> PAOU was more appropriately assigned to the Geosynthetic or S/S Cover System grouping based on feedback from the Core Team. The CKLR-Rx OU was moved to the Native Soil Covers and/or LUCs grouping because only the LUC portion of the early action remedy has been implemented for the C-, K-, and L-Reactor Complexes. The R-Reactor Complex is discussed as part of the RAOU. USDOE will continue to evaluate the grouping of individual OUs to determine if additional adjustments are needed. USEPA and SCDHEC confirmed that their personnel will participate in five-year inspections for all OUs.
August 30, 2016	<ul style="list-style-type: none"> The group formerly known as “Compacted Clay Cover Systems” was renamed to “Engineered Cover Systems”.
	<ul style="list-style-type: none"> ELLWF from the “Engineered Cover System” group and TAOU from the “Operating Equipment” group were moved to the “Geosynthetic or Stabilization/Solidification Cover System” group.
August 28, 2018	<ul style="list-style-type: none"> Core Team agreed to the proposed implementation of the <i>Five-Year Review Recommended Template</i> (OLEM 9200.0-89, January 2016) in the introductory section of the Sixth Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs as discussed in Section 7.0.

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Attachment 1. Outline for the Savannah River Site Summary (i.e., introductory section) of the Five-Year Remedy Review Reports

Section	Headings and Subheadings
I	INTRODUCTION Site Chronology Background Physical Characteristics Land and Resource Use History of Contamination
II	RESPONSE ACTION SUMMARY Initial Response Basis for Taking Action Response Actions Summary Status of Implementation Systems Operation and Maintenance
III	PROGRESS SINCE LAST REVIEW
IV	FIVE-YEAR REMEDY REVIEW PROCESS Community Notification and Involvement Data Review, Site Inspections, and Interviews
V	TECHNICAL ASSESSMENT Question A: Is the Remedy Functioning as Intended by the Decision Documents? Question B: Are the Exposure Assumptions, Toxicity Data, Cleanup Levels, and RAOs still Valid? Question C: Has Any Other Information Come to Light that could call into Question the Protectiveness of the Remedy?
VI	ISSUES AND RECOMMENDATIONS
VII	PROTECTIVENESS STATEMENT(S)
VIII	NEXT REVIEW
IX	OU-SPECIFIC FIVE-YEAR REMEDY REVIEW REPORTS
X	REFERENCES

Attachment 1 and Attachments 2-1 through 2-7 tables will be included in the Savannah River Site Summary section of the Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs. Example text is provided in Attachments 2-1 through 2-7.

**Scoping Summary for the Seventh Five-Year Remedy
Review Report for SRS OUs with Native Soil Covers and/or LUCs
Savannah River Site**

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Attachment 2-1. Example of Five-Year Review Summary Form²

SITE IDENTIFICATION		
Site Name: Savannah River Site		
EPA ID: SC1890008989		
Region: 4	State: SC	City/County: Aiken/Aiken
SITE STATUS		
NPL Status: Final		
Multiple OUs? Yes	Has the site achieved construction completion? No	
REVIEW STATUS		
Lead agency: Other Federal Agency If “Other Federal Agency” was selected above, enter Agency name: US Department of Energy		
Author name (Federal or State Project Manager): N/A		
Author affiliation: Savannah River Nuclear Solutions, LLC		
Review period: July 15, 2023 – January 21, 2025 (Phase 1: SRS OUs with Native Soil Covers and/or LUCs)		
Date of site inspection: August 2023 to November 2023 (Phase 1: SRS OUs with Native Soil Covers and/or LUCs)		
Type of review: Statutory		
Review number: 7		
Triggering action date: January 21, 2024		
Due date (five years after triggering action date): January 21, 2029 (includes all 5 phases)		

² Same format as previous SRS Five-Year Remedy Review Reports.

**Scoping Summary for the Seventh Five-Year Remedy
Review Report for SRS OUs with Native Soil Covers and/or LUCs
Savannah River Site**

Attachment 2-2. Example of LUC Summary Table³

Operable Unit	Media, Engineered Controls, and Areas that do not support UU/UE based on current conditions	LUCs Needed	LUCs Called for in the Decision Documents	Impacted Parcel(s)^a	LUC Objectives	Title of LUC Instrument Implemented and Date (or Planned)
Early Construction and Operational Disposal Site (ECODS) L-1, N-2, P-2, and R-1A, -1B, -1C	Soil	Yes	Yes	22	<ul style="list-style-type: none"> Prevent contact, removal, or excavation of subsurface soil Prohibit the development and use of property for residential housing, elementary and secondary schools, childcare facilities, and playgrounds 	SRNS 2010b

^a The Impacted Parcel(s) identification is represented by the SEMS number.

Attachment 2-3. Example of Protectiveness Determinations/Statements from the Sixth Five-Year Remedy Review Report for SRS OU with Native Soil Covers and/or LUCs (SRNS 2019)³

SEMS No.	Operable Unit	Protectiveness Determination	Protectiveness Statement
22	Early Construction and Operational Disposal Site (ECODS) L-1, N-2, P-2, and R-1A, -1B, -1C OU	Protective	The remedy at the ECODS L-1, N-2, P-2, and R-1A, -1B, -1C OU is protective of human health and the environment.

³ Template format recommended by OLEM 9200.0-89.

Attachment 2-4. Example of Status of Recommendations from the Sixth Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs (SRNS 2019)⁴

SEMS #	Issue	Recommendations	Current Status	Current Implementation Status Description	Completion Date (if applicable)
30	Soil RGs have likely been achieved and operation of the passive SVE system may no longer be needed for future protectiveness	In accordance with the <i>Sampling and Analysis Plan for the A-Area Miscellaneous Rubble Pile (731-6A) Operable Unit (U)</i> (SRNS 2015b) to determine if RGs have been achieved for TCE and PCE, additional characterization of the ash layer and vadose zone soils should be conducted. If the soil RGs have been met, the passive SVE system could be shutdown.	Complete	Additional characterization of ash layer and vadose zone soils were conducted in July 2018. After regulatory discussion and approval, the AMRP passive SVE system has been shutdown.	December 2020

⁴ Template format recommended by OLEM 9200.0-89.

Attachment 2-5. Examples of OUs without Issues and Recommendations in the Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs

OU(s) without Issues/Recommendations Identified in the Five-Year Review:
SEMS No.: 22

Attachment 2-6. Example of Issues and Recommendations Identified in the Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs⁵

Issues and Recommendations Identified in the Five-Year Review:				
SEMS No.: N/A	Issue Category: N/A			
	Issue: None			
	Recommendation: None			
Affect Current Protectiveness	Affect Future Protectiveness	Party Responsible	Oversight Party	Milestone Date
N/A	N/A	N/A	N/A	N/A

N/A – Not applicable

Attachment 2-7. Example of Protectiveness Statement(s) for the Seventh Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs⁴

Protectiveness Statement(s)		
Operable Unit: EARLY CONSTRUCTION AND OPERATIONAL DISPOSAL SITE (ECODS) L-1, N-2, P-2, and R-1A, -1B, -1C, SEMS No: 22	Protectiveness Determination: Protective	Addendum Due Date (if applicable): N/A
Protectiveness Statement: The remedy at the ECODS L-1, N-2, P-2, and R-1A, -1B, -1C OU is protective of human health and the environment		

N/A – Not Applicable

⁵ Same format as previous SRS Five-Year Remedy Review Reports.

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