

**U.S Department of Energy
 Oak Ridge Office of Environmental Management
 Task Order**

1. Task Order Number: 89303523FEM400032	2. Task Order Revision Number: P00021
3. Task Order Title: Oak Ridge Reservation Cleanup End States Task Order	
4. Date of Task Order – 05/10/2023	
5. Master IDIQ Contract Information:	
a. Contractor Name and Address: United Cleanup Oak Ridge LLC (UCOR) 20501 Seneca Meadows Pkwy, Ste 300 Germantown, MD 208767019	
b. Contract Number: 89303322DEM000067	
6. Description of Work: See attached subtasks	7. Accounting and Appropriation Data: See Clause B.4
8. Task Order Type, Cost, and Fee: Hybrid – See attached subtasks	9. Period of Performance: 05/10/2023-05/09/2033
See attached for all terms and conditions.	

Oak Ridge Cleanup Contract 89303322DEM000067
89303322DEM000067/89303523FEM400032

United Cleanup Oak Ridge LLC (UCOR)

Subtask: 000382

Subtask 8-2: Mission Support Facility – EMDF Line Item, Subtask 2 –
GWFD and BOC (**Modification 3**)



U.S Department of Energy
Oak Ridge Office of
Environmental Management

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Section B – Supplies or Services and Prices/Costs

This Subtask work shall be performed under Contract Line Item Number (CLIN) 00003 of the Oak Ridge Reservation Cleanup Contract (ORRCC) (herein referred to as the Master IDIQ Contract). Section B of the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 are incorporated by reference.

B.1 DOE-B-2012 Supplies/Services Being Procured/Delivery Requirements (Oct 2014)

The Contractor shall furnish all personnel, facilities, equipment, material, supplies, and services (except as may be expressly set forth in this Subtask as furnished by the Government) and otherwise do all things necessary for, or incidental to, the performance of work as described in Section C, Performance Work Statement under this Subtask.

B.2 Type of Subtask

(c) *DOE-B-2002 Cost-Plus-Incentive-Fee Task Order: Total Estimated Cost and Incentive Fee (Oct 2014) (Revised)*

- (1) This is a Cost-Plus-Incentive-Fee type Subtask. In accordance with the clause at FAR 52.216-10, *Incentive Fee*, the target cost, target fee, maximum and minimum fees, and the target fee increase and decrease ratios for **SubCLIN 000382** are set forth below:

Target Cost: **\$207,410,956**

Target Fee: **\$10,370,548**

Maximum Fee(15%): **\$31,111,643***

Minimum Fee (0%): **\$0**

***Includes PMI of 20% of the fee for \$ \$6,222,329 available and managed at the contractual level.**

- i. Cost Incentive

Target Fee: **See Appendix B.2**

Maximum Fee (15%): **See Appendix B.2**

Minimum Fee (0%): **\$0**

Insert Explanation: **Actual fee earned will be prorated based on final cost at completion.**

For the cost incentive portion of fee, as specified at Section I clause FAR 52.216-10, Incentive Fee, paragraph (e)(1): the fee payable under this subtask shall be the target fee increased by thirty (30) cents for every dollar the total allowable cost is less than the target cost or decreased by thirty (30) cents for every dollar the total allowable cost exceeds the target cost. In no event shall the fee be greater than (See Appendix B.2 for max amount) or less than \$0.

ii. Schedule Incentive

Target Fee: **See Appendix B.2**

Maximum Fee (15%): **See Appendix B.2**

Minimum Fee (0%): **\$0**

Insert Explanation: ***Note the fee amount will be calculated on a prorated daily basis from the max fee due date through the minimum fee due date. No fee will be available beyond the minimum fee due date.**

iii. Performance Incentive

Target Fee: **See Appendix B.2**

Maximum Fee (15%): **See Appendix B.2**

Minimum Fee: **See Appendix B.2**

Insert Explanation: **Earned upon completion/no claw back. See Performance incentive completion criteria in Appendix B.2.**

- (2) In accordance with the clause at FAR 52.216-10, *Incentive Fee*, the target cost and target fee increase and decrease ratios are applicable to the following Subtask Contract Line Item(s) (CLINs):

Table B-2. Subtask CLIN Structure

CLIN/ SubCLIN	CLIN/SubCLIN Title	CLIN Type	Target Cost**	Target Fee**	Fee Increase/Decrease Ratio
00003	ORRCC End State Task Orders 89303322DEM000067/ 89303523FEM400032				
000382	Subtask 8-2: Mission Support Facility - EMDF, Subtask 2 - GWFD and BOC	CPIF	<u>\$207,410,956</u>	<u>\$10,370,548</u>	As described in B.2.(c)(1)
000382-2 (Option)	Subtask 8-2: EMDF Merchantable Timber Harvesting – PRICED OPTION	CPIF	\$817,114	<u>To be determined</u>	<u>To be set forth in a modification to this Subtask when/if option is exercised.</u>

Acronyms:

BOC	Balance of Phase I Construction	EMDF	Environmental Management Disposal Facility
CLIN	Contract Line Item Number	GWFD	Groundwater Field Demonstration
CPIF	cost-plus-incentive-fee	ORRCC	Oak Ridge Reservation Cleanup Contract

****This Subtask is subject to reopening pending incorporation of audit results from recent audit of UCOR completed by an auditing firm retained by DOE.** Therefore, the parties agree that the Total Subtask Estimated Value is subject to adjustment based on the results of audit report and resolution of audit findings. Should there be no agreement between DOE and Contractor on the amount of the price adjustment, the Contracting Officer may make a unilateral determination and modify the Subtask accordingly. Failure of Contractor and DOE to agree with such change and the resulting Total Subtask Estimated Value shall be resolved in accordance with the Disputes Clause of the Contract.

- (3) Payment of fee shall be made in accordance with the clause 52.216-10, *Incentive Fee*, Clause I.228, *DEAR 970.5232-2, Payment and Advances (Dec 2000) – Alt I (Dec 2000), Alt II (Dec 2000) and Alt III (Dec 2000)(DEVIATION)* of the Master IDIQ Contract, and is payable upon DOE’s final determination.

B.9 Basis for Change

In accordance with Clause B.9 *Basis for Change*, of the Master IDIQ Contract, the identification of fee risk ownership for both the Government and the Contractor is set forth in Appendix B.9 to this Subtask.

B.12 Performance Management Incentive

In accordance with Clause B.12, *Performance Management Incentive*, of the Master IDIQ Contract, Performance Management Incentive is applicable to this Subtask.

Section C – Performance Work Statement

C.1 Subtask Requirements

The Contractor shall perform the requirements of this Subtask in accordance with the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 and the following:

PERFORMANCE BASED STATEMENT OF WORK

Subtask 8-2: Mission Support Facility – EMDF Line Item

1.0 INTRODUCTION

This is an end states Subtask. The desired outcome for *Mission Support Facility – EMDF Line Item* is the completed design, construction, and startup of the new onsite CERCLA disposal facility (the EMDF) to support uninterrupted cleanup activities on the ORR.

The EMDF is a Line-Item construction project (17-D-401) that is planned to be executed under tailored critical decision approval(s) as three DOE Order 413.3B phased subprojects:

- Subproject 1: Early Site Preparation (ESP)
- Subproject 2: Groundwater Field Demonstration (GWFD)
- Subproject 3: Balance of Phase I Construction, including the wastewater treatment system and support facilities (BOC)

Completion of these phased subprojects is structured in two Mission Support Facility – EMDF Subtasks, as follows:

Mission Support Facility - EMDF Subtask 8-1 (Subtask 000381, Attachment J-15-3-08-01): Includes the completion of Subproject 1, Early Site Preparation (ESP) Construction as defined in the Subtask Section 3.0, *Scope* following applicable Critical Decision approval by the Project Management Executive (PME).

Mission Support Facility - EMDF Subtask 8-2 (Subtask 000382, Attachment J-15-3-08-02): Includes completion of Subproject 2, Groundwater Field Demonstration (GWFD) and Subproject 3, Balance of Phase I Construction (BOC) as defined in Subtask Section 3.0, *Scope*.

- **Modification 3 exercises the SubCLIN 000382-1 Priced Option (authorized for completion in SubCLIN 000382) and awards the SubCLIN 000382 Target Cost and cost-plus-incentive-fee agreement for the completion of the Subtask 8-2, Section C – Performance Work Statement requirements.**
- Modification 2 awards EMDF Marketable Timber Harvesting as defined in Section 3.0, *Scope*. The SubCLIN 000382-2 Priced Option may be authorized in a future modification to this Subtask.
- Modification 1 awards Subtask 8-2 Project Management, Project Support, and Site Maintenance as defined in Section 3.0, *Scope*.

The Contractor shall ensure the EMDF Subtask 8-1 scope is integrated with EMDF Subtask 8-2, and other Subtasks, as necessary.

2.0 BACKGROUND

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remediation of facilities that are contaminated by historical Manhattan Project and Cold War activities is the major focus of the OREM Program. This cleanup mission is projected to take the next 25 years to complete and will result in large volumes of radioactive, hazardous, and mixed waste requiring disposal. The current onsite disposal cell is nearing capacity and the remaining estimated volumes will require approximately 2.2 million yd³ of disposal capacity. The Environmental Management Disposal Facility (EMDF) will be built to provide this capacity in phases so only the capacity that is needed is constructed. The EMDF will be built to meet Resource Conservation and Recovery Act and Toxic Substances Control Act requirements as well as those from DOE O 435.1 for disposal of low-level (radioactive) waste.

The EMDF project includes final design of an engineered land disposal facility with multiple cells and up to approximately 2.2 million yd³ of capacity; a landfill wastewater collection and treatment system; all support infrastructure (e.g., utilities, personnel facilities); and a conceptual level design of the final cover. The Phase I construction of the facility will provide approximately one-third of the total capacity and fully construct the support infrastructure/facilities (e.g., the landfill wastewater treatment system, personnel facilities, utility systems).

3.0 SCOPE

The Contractor shall perform the scope of work and requirements in accordance with the Section C PWS sections and subsections of the Master IDIQ Contract and Task Order 89303322DEM000067/89303523FEM400032 identified below:

- **C.4 CERCLA Disposal Facility Construction (Y-12)**

For the scope of work performed under Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 PWS sections and subsections listed in the Scope, the Contractor shall incorporate the following assumptions and end state completion objectives into the Subtask:

Subtask 8-2: Mission Support Facility – EMDF, Subtask 2 (SubCLIN 000382)

Modification 3:

C.4.1 CERCLA Disposal Facility Design

The desired outcome is the completed design of the EMDF as described in Master IDIQ Task Order 89303322DEM000067/ 89303523FEM400032 PWS C.4.

- **The Subproject 3, Balance of Construction interim end state to be completed is the determination of the bottom elevation of the landfill design to meet ROD requirements.**
- **The Subproject 3, Balance of Construction subproject end state is the completed design for the EMDF.**

The Subtask 8-2 end state to be completed includes:

- Provide project management, project support, and site maintenance for completion of the design, Phase I construction, and start-up of the EMDF as described in Master IDIQ and Task Order 89303322DEM000067/ 89303523FEM400032 PWS C.4.
- Site maintained in accordance with regulatory requirements until the Groundwater Field Demonstration construction is complete.
- Fell and load 45 acres of merchantable trees from EMDF site by March 31, 2024.
- **Assume:**
 - **The GWFD will not result in a change to the preliminary design.**
 - **Mitigations will not be more extensive than identified in the 2018 Natural Resource Assessment for EMDF.**
 - **Assume final design will begin following approval of the technical memorandum for the first wet season of GWFD monitoring.**

C.4.2 CERCLA Disposal Facility Construction

The desired outcome is the completed Phase I construction of the EMDF as described in Master IDIQ Task Order 89303322DEM000067/ 89303523FEM400032 PWS C.4.

- **The Subproject 2, GWFD interim end state to be completed includes completion of construction activities for the EMDF GWFD in accordance with the ROD and IFC design (to be completed under PWS C.4.1).**

The Subproject 2, GWFD interim end state to be completed includes:

- Borrow Area 7b developed
- Water and electrical utility lines extended to site boundary and construction support area trailer, old electrical lines in footprint of EMDF removed, and hardware and conductors from the abandoned 161 kV power transmission line on wooden poles east of the EMDF footprint removed.
- Assume up to 2% of excavated materials will be contaminated, requiring characterization and waste segregation prior to disposal for GWFD interim end state.
- Long-lead electrical utility procurements shall allow for installation of the future communication lines.

C.4.3, CERCLA Disposal Facility Startup

The desired outcome is the completed startup of the EMDF to support cleanup activities on the ORR as described in Master IDIQ Task Order 89303322DEM000067/ 89303523FEM400032 PWS C.4.

- **The Subproject 3, Balance of Construction end state is the completed start-up of the EMDF Phase I and PME approval of CD-4, Approve Start of Operations.**
- **Assume:**
 - **One concurrent and combined CD-4 approval for Subproject 3 and the EMDF Phase I Line Item Project.**

Subtask 8-2: EMDF Merchantable Timber Harvesting (CLIN/SubCLIN 00382-2 Priced Option)

C.4.1 CERCLA Disposal Facility Design

The EMDF Merchantable Timber Harvesting interim end state to be completed includes:

- Handling and mulching 45 acres of merchantable timber from the EMDF site.

4.0 APPLICABLE DIRECTIVES

In addition to the Directives included in the Master IDIQ Contract Attachment J-2, Directives specific to this Subtask are included in Attachment J-2-8.

5.0 INTERFACES

In addition to the Interfaces included in the Master IDIQ Contract Attachment J-3, Interfaces specific to this Subtask are included in Attachment J-3-8.

6.0 DELIVERABLES

In addition to the Deliverables included in the Master IDIQ Contract Attachment J-7, Deliverables specific to this Subtask are included in Attachment J-7-8.

7.0 GOVERNMENT-FURNISHED SERVICES AND INFORMATION

In addition to the Government-Furnished Services and Information included in the Master IDIQ Contract Attachment J-8, GFS/I specific to this Subtask are included in Attachment J-8-8.

8.0 PERFORMANCE OBJECTIVES AND STANDARDS

In addition to the performance incentive completion criteria included in Appendix B.2, fee will be determined upon completion of the End State requirements in Section 3.0 and work scope/completion criteria as follows:

Subtask 8-2, Mission Support Facility – EMDF, Subtask 2	
End State Requirement	Work Scope/Completion Criteria
Modification 1: Provide project management, project support, and site maintenance for completion of the design, Phase I construction, and start-up of the EMDF as described in Master IDIQ and Task Order 89303322DEM000067/89303523FEM400032 PWS C.4.	Modification 1: <ul style="list-style-type: none"> • Project management and project support provided through completion of Phase I construction (includes approximately one-third of 2.2 million cubic yards of disposal capacity) and start-up of the EMDF. • Site maintained in accordance with regulatory requirements through GWFD Construction completion.

Subtask 8-2, Mission Support Facility – EMDF, Subtask 2	
End State Requirement	Work Scope/Completion Criteria
<p>Modification 2:</p> <p>Fell and load 45 acres of merchantable timber from the EMDF site by March 31, 2024.</p>	<ul style="list-style-type: none"> • Complete subcontractor submittals, mobilization, and training. • Complete tree felling operations and erosion control measures. • Complete handling of felled trees that will be transferred to a third party: drag to nearby staging area for transport and load onto transport truck of third party.
<p><u>Modification 3:</u> <u>For Subproject 3, BOC:</u> <u>Complete determination of the bottom elevation of the landfill design to meet ROD requirements.</u></p>	<ul style="list-style-type: none"> • <u>Two wet seasons of groundwater level monitoring performed, and data complete to validate the extent to which groundwater levels drop in the area after GWFD cover placement to support the final design, following PWS C.4.2 installation and modification of existing monitoring wells.</u> • <u>Groundwater elevation monitoring results documented to support final EMDF landfill design development in Tech Memos after wet season #1 and wet season #2.</u> • <u>Regulatory approval of the bottom elevation of the landfill design.</u> • <u>GWFD liner system and stormwater system maintained until wet season monitoring is complete, as necessary.</u>

Subtask 8-2, Mission Support Facility – EMDF, Subtask 2	
End State Requirement	Work Scope/Completion Criteria
<p><u>Modification 3</u> <u>For Subproject 3, Balance of Construction: Complete the design for the EMDF.</u></p>	<ul style="list-style-type: none"> • <u>Complete design activities for the EMDF described in Master IDIQ Section C.4.1 and in accordance with the ROD.</u> • <u>All remaining mitigation documentation complete.</u> • <u>Tailored critical decision approved by the PME for the Balance of construction subproject.</u> • <u>CERCLA required documentation for the disposal cell (RDWP, RDR/RAWP) and for the central borrow area (RDR) complete.</u> • <u>Design and issued for construction drawings complete for an ORR disposal facility with an air space capacity of up to approximately 2.2 million cubic yards and required infrastructure for the disposal of OREM-generated CERCLA waste in support of cleanup activities conducted under the FFA.</u> • <u>Conceptual design for final cover complete.</u> • <u>Waste acceptance criteria compliance plan complete.</u>
<p><u>Modification 3:</u> <u>For Subproject 2, GWFD: Borrow Area 7b developed</u></p>	<ul style="list-style-type: none"> • <u>Limits of borrow area 7b cleared and grubbed.</u> • <u>Stormwater controls including sediment trap constructed.</u> • <u>Vegetation waste managed.</u> • <u>Contaminated soils/excavated materials packaged and disposed.</u> • <u>Borrow area 7b developed and ready for intended use as borrow area.</u>
<p><u>Modification 3:</u> <u>For Subproject 2, GWFD: Water and electrical utility lines extended to site boundary and construction support area trailer, old electrical lines in footprint of EMDF removed, and hardware and conductors from the abandoned 161 kV power transmission line on wooden poles east of the EMDF footprint removed</u></p>	<ul style="list-style-type: none"> • <u>Electrical power lines and potable water lines to EMDF support area installed in accordance with design specification.</u> • <u>Installed poles ready for installation of telecommunication lines.</u> • <u>Old lines in EMDF footprint removed and disposed.</u> • <u>Hardware and conductors from the abandoned 161 kV power transmission line on wooden poles east of the EMDF footprint removed and disposed.</u> • <u>Water line tie-in and permit complete in coordination with City of Oak Ridge.</u> • <u>Acceptable certification test completed and documented.</u> • <u>As-built drawings complete.</u>

Subtask 8-2, Mission Support Facility – EMDF, Subtask 2	
End State Requirement	Work Scope/Completion Criteria
<p>Modification 2:</p> <p>Handling and mulching 45 acres of merchantable timber from the EMDF site (<u>Priced Option</u>)</p>	<ul style="list-style-type: none"> • Complete handling of felled trees that will not be transferred to a third party: drag to nearby staging area for transport, load onto a transport truck, relocate to nearby staging area, off-load and stack. • Complete mulching of merchantable timber that is not going to be sold/retrieved by a third party and transport the mulch to East Tennessee Technology Park (ETTP).
<p><u>Modification 3:</u> <u>For Subproject 2, GWFD:</u> <u>Complete construction activities for the EMDF GWFD in accordance with the ROD and IFC design.</u></p>	<ul style="list-style-type: none"> • <u>GWFD subproject construction complete, including diversion ditch, excavation and grading, stormwater controls and cover system.</u> • <u>Sedimentation ponds complete.</u> • <u>Installation and modification of existing monitoring wells and equipment complete.</u> • <u>Sensitive resource mitigations for GWFD construction complete.</u> • <u>Remaining vegetation not removed as marketable timber cleared.</u> • <u>GWFD mitigation documentation complete.</u> • <u>GWFD Subproject CD-4 approved by the PME.</u>
<p><u>Modification 3</u> <u>For Subproject 3, Balance of Construction: Complete Phase I construction for the EMDF.</u></p>	<ul style="list-style-type: none"> • <u>Construction activities for the EMDF described in Master IDIQ Section C.4.2 complete.</u> • <u>Initial set of disposal cells constructed to provide a minimum of one-third (approximately 700,000 cubic yards) of the total capacity, and all supporting infrastructure needed for waste disposal constructed.</u> • <u>Necessary systems and infrastructure for the collection, storage, and treatment of landfill wastewater provided to ensure compliance with the ROD.</u> • <u>Sensitive resource mitigations for balance of construction complete.</u> • <u>Remaining vegetation not removed as marketable timber cleared.</u> • <u>Utility and telecommunication lines installed and connected.</u> • <u>All wells in the footprint plugged and abandoned.</u> • <u>Monitoring wells required for operations installed.</u>

Subtask 8-2, Mission Support Facility – EMDF, Subtask 2	
End State Requirement	Work Scope/Completion Criteria
<p><u>Modification 3</u> <u>For Subproject 3, Balance of Construction: Complete start-up of the EMDF and obtain PME approval of CD-4, Approve Start of Operations.</u></p>	<ul style="list-style-type: none"> • <u>Final Disposal Authorization Statement (DAS) per DOE Order 435.1 requirements approved for operations including Performance Assessment/Composite Analysis (PA/CA) maintenance plans and PA/CA monitoring plans (Sampling and Analysis plan).</u> • <u>Startup activities performed in accordance with regulatory requirements and DOE Order 413.3</u> • <u>Balance of Construction subproject completion documentation approved by the PME.</u> • <u>All documentation required to receive EMDF Phase I Construction Project CD-4 approval complete.</u> • <u>CERCLA required documentation complete, including Landfill and Wastewater Operations RAWP.</u> • <u>Background characterization for operations monitoring complete.</u>

In addition, the performance requirements, made up of objectives and respective standards, for this Subtask will be used to determine quality of performance in CPARS evaluation and PMI, if applicable. The performance objectives and standards are as follows:

Subtask 8-2, Mission Support Facility – EMDF, Subtask 2	
Objectives	Standard
<u>Construct utilities in accordance with approved designs, standards and practices</u>	<u>No more than two corrective deficiencies issued by DOE</u>
<u>Construct wastewater treatment plant in accordance with approved designs, standards, and practices</u>	<u>No more than two corrective deficiencies issued by DOE</u>
<u>Stormwater management control and mitigation</u>	<u>No violation issued for stormwater discharges as a result of contractor's actions.</u>
<u>Follow requirements and required notification in Memorandum of Agreement giving operational control of EMDF area to OREM</u>	<u>No violations of MOA as a result of contractor's actions.</u>
<u>All documents submitted to DOE without errors and omissions</u>	<u>No more than one reissue required</u>
<u>Construct working structures (surfaces, drainage swales, culverts, construction pads, parking area) in accordance with approved designs, standards, and practices</u>	<u>No more than four corrective deficiencies issued by DOE</u>

Subtask 8-2, Mission Support Facility – EMDF, Subtask 2	
Objectives	Standard
<u>Perform work in accordance with CERCLA documents</u>	<u>No violations of CERCLA document as a result of contractor’s actions</u>
<u>Wildlife mitigation and Sensitive Habitat included in Best Management Practice</u>	<u>No violation for failing to follow mitigation best management practices as a result of contractor’s actions</u>
Safety and Operational Performance	See ORRCC PMI Plan
Meeting Regulatory or Court Ordered Milestones	See ORRCC PMI Plan
Quality Assurance Performance per Section C and Section E Clause FAR 52.246-11, where Continuous Monitoring and Performance Improvement are Evident	See ORRCC PMI Plan
Maintaining the Operability of Facilities and Other Infrastructure throughout the Performance Period such that Degradation is Addressed to Prevent Mission Impact	See ORRCC PMI Plan
Management of the Contractor’s team, including teaming subcontractors to ensure efficient and effective partnering with the Government and all parties;	See ORRCC PMI Plan
Establishment, maintenance, and implementation of sound business systems to ensure efficient and effective business management performance in a complex IDIQ task order environment	See ORRCC PMI Plan
IDIQ management, including timely, good faith and fair dealings in conducting negotiations with DOE with the goal of a reasonable outcome, including equitable risk sharing, for all Parties	See ORRCC PMI Plan

Section D – Packaging and Marking

Section D of the Master IDIQ Contract is incorporated by reference.

Section E – Inspection and Acceptance

In addition to the following requirements, Section E of the Master IDIQ Contract is incorporated by reference:

E.1 Inspection and Acceptance Delegation

In accordance with Clause E.2, DOE-E-2001, Inspection and Acceptance, the Contracting

Officer assigns inspection and acceptance of all items to the Contracting Officer's Representative; however, the Contracting Officer's Representative is not authorized to accept nonconforming items or services.

Section F – Deliveries or Performance

Section F of the Master IDIQ Contract is incorporated by reference. The requisite clause information specific to this Subtask included below is consistent with the clause numbering structure established by the Master IDIQ Contract.

F.3 Period of Performance

- (a) The Period of Performance (POP) for Subtask 8-2 (SubCLIN 000382) is from November 16, 2023 through May 9, 2030. The Contractor is expected to accomplish all of the completion criteria as defined in Section C within and/or at the end of the Subtask period of performance (POP). The Period of Performance (POP) for SubCLIN 000382-2 (Priced Option) is not yet authorized.
- (b) The Contractor shall not be paid for work performed or costs incurred prior to the Subtask effective date, unless specifically authorized by the Contracting Officer.

Section G – Contract Administration Data

Section G of the Master IDIQ Contract is incorporated by reference in addition to the following:

G.1 Subtask Administration

To promote timely and effective contract administration, correspondence delivered to the Government under this Subtask, shall reference the contract number, Task Order number, Subtask number, and subject matter, and shall be subject to the following procedures:

- (a) Technical correspondence. Technical correspondence shall be addressed to the COR for this Subtask, and a copy of any such correspondence shall be sent to the CO for this Subtask, with an informational copy to the Contract COR and Contract CO. As used herein, technical correspondence does not include correspondence where patent or rights in data issues are involved, nor technical correspondence that proposes or involves waivers, deviations, or modifications to the requirements, terms, or conditions of this Contract.
- (b) Information regarding correspondence addresses and contact information will be provided through official correspondence:
 - (1) Subtask Contracting Officers
 - (A) Name: John Phelps
 - (B) Telephone number: 865/576-1147

(C) Address:
U.S. Department of Energy
Oak Ridge Office of Environmental Management
200 Administration Road
Oak Ridge, TN 37830

(D) Email address: John.Phelps@orem.doe.gov

(E) Name: Karen Shears

(F) Telephone number: 865/241-6411

(G) Address:
U.S. Department of Energy
Oak Ridge Office of Environmental Management
200 Administration Road
Oak Ridge, TN 37830

(H) Email address: Karen.Shears@orem.doe.gov

(2) Subtask Contracting Officer's Representative

(A) Name: Brian Henry

(B) Telephone number: 865-241-8340

(C) Address:
U.S. Department of Energy
Oak Ridge Office of Environmental Management
200 Administration Road
Oak Ridge, TN 37830

(D) Email address: Brian.Henry@orem.doe.gov

Section H – Special Contract Requirements

In addition to the following requirements, Section H of the Master IDIQ Contract is incorporated by reference:

None.

Section I – Contract Clauses

In addition to the following requirements, Section I of the Master IDIQ Contract is incorporated by reference:

None.

Section J – List of Documents, Exhibits, and Other Attachments

In addition to the following requirements, Section J of the Master IDIQ Contract is incorporated by reference:

1. Attachment J-2 – Directives

Attachment J-2-8 includes the following additional directives for this Subtask:

None.

2. Attachment J-3 – Interfaces

Attachment J-3-8 includes the following additional interfaces for this Subtask:

None.

3. Attachment J-5 – Small Business Subcontracting Goals

The following goals for this Subtask are appended to the Master Small Business Subcontracting Plan:

Table J-5-8-2a. Subtask 8-2 Small Business Subcontracting Goals

Category	Total to be Subcontracted (\$)	Minimum Small Business Goals as a percent of total subcontracted dollars
Total Subcontracted	<u>\$157,155,900</u>	
Total Small Business Subcontracts	<u>\$70,720,150</u>	45%
Veteran-Owned Small Business (VOSB)	<u>\$4,714,677</u>	3%
Service-Disabled Veteran-Owned Small Business (SDVOSB)	<u>\$4,714,677</u>	3%
Historically Underutilized Business Zone (HUBZone)	<u>\$4,714,677</u>	3%
Small Disadvantaged Business	<u>\$7,857,795</u>	5%
Women-owned Small Business	<u>\$7,857,795</u>	5%

In accordance with Clause H.52, *Subcontracted Work*, Government-Provided Costs for Reservation Management and Post-Retirement Benefits and Long-Term Disability and Pension Contribution, and estimated costs for services acquired under parent organization support plan and for the site usage fees provided to other site contractors are included in the Subtask value, but not included in the cumulative Subtask value for subcontracting goals, are provided in Table J-5-8b.

Table J-5-8-2b. Subtask 8-2 Costs Not Included in Subcontracting Goals

Reservation Management	Not applicable
Post-Retirement Benefits and Long-Term Disability and Pension Contribution	Not applicable
Site Usage Fees	Not applicable
Services Acquired under Parent Organization Support Plan	<u>\$1,525,799</u>

4. Attachment J-7 - Contract Deliverables

Attachment J-7-8-2 includes the following additional deliverables for this Subtask:

Attachment J-7-8-2. Subtask Specific Deliverables

Number	<u>Deliverable</u>	<u>Deliverable Due Date</u>	<u>DOE Action Response¹</u>	<u>Reference</u>
T8-2-001	<u>Subtask Performance Measurement Baseline</u>	<u>Final Within 30 days of Subtask issuance</u>	<u>Approve – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u> <u>Section H.51, Task Ordering Procedure</u>
T8-2-002	<u>Integrated Master Schedule</u>	<u>Final Within 30 days of Subtask issuance</u>	<u>Approve – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u> <u>Section H.51, Task Ordering Procedure</u>
T8-2-003	<u>Subtask Metrics and Milestone Plan</u>	<u>Final Within 30 days of Subtask issuance</u>	<u>Approve – 30 days</u>	<u>Section C.6.1.1, Project Support Performance Requirements</u> <u>Section H.51, Task Ordering Procedure</u>
T8-2-004	<u>Subtask Waste Generation Forecast</u>	<u>Final Within 30 days of Subtask issuance</u>	<u>Approve – 30 days</u>	<u>Section C.6.2.8, Waste Management</u>

Attachment J-7-8-2. Subtask Specific Deliverables

Number	<u>Deliverable</u>	<u>Deliverable Due Date</u>	<u>DOE Action Response¹</u>	<u>Reference</u>
T8-2-005	<u>GWFD Supporting Documentation (including lessons learned) for CD-4 issued to DOE for PME approval.</u>	<u>4/8/2025</u>	<u>Approve – 90 days</u>	<u>C.4.2, CERCLA Disposal Facility Construction</u> <u>DOE O 413.3B</u> <u>CERCLA and FFA</u>
T8-2-006	<u>EMDF BOC completion report including as-builts and testing results</u>	<u>2/23/2030</u>	<u>Approve – 30 days</u>	<u>C.4.2, CERCLA Disposal Facility Construction</u> <u>DOE O 413.3B</u> <u>CERCLA and FFA</u>
T8-2-007	<u>GWFD monitoring technical memo – wet season 1 to DOE</u>	<u>5/20/2025</u>	<u>Approve**</u>	<u>C.4.2, CERCLA Disposal Facility Construction</u> <u>DOE O 413.3B</u> <u>CERCLA and FFA</u>
T8-2-008	<u>GWFD monitoring technical memo – wet season 2 to DOE</u>	<u>7/6/2026</u>	<u>Review**</u>	<u>C.4.2, CERCLA Disposal Facility Construction</u> <u>DOE O 413.3B</u> <u>CERCLA and FFA</u>
T8-2-009	<u>Landfill RDWP, D1 to DOE</u>	<u>1/27/2025</u>	<u>**</u>	<u>C.4.2, CERCLA Disposal Facility Construction</u> <u>DOE O 413.3B</u> <u>CERCLA and FFA</u>
T8-2-010	<u>Borrow area 7b completion report to DOE</u>	<u>9/7/2024</u>	<u>Approve – 30 days</u>	<u>C.4.2, CERCLA Disposal Facility Construction</u> <u>DOE O 413.3B</u> <u>CERCLA and FFA</u>
T8-2-011	<u>Landfill RDR/RAWP, D1 to DOE</u>	<u>9/16/2026</u>	<u>**</u>	<u>C.4.2, CERCLA Disposal Facility Construction</u> <u>DOE O 413.3B</u> <u>CERCLA and FFA</u>

Attachment J-7-8-2. Subtask Specific Deliverables

Number	<u>Deliverable</u>	<u>Deliverable Due Date</u>	<u>DOE Action Response¹</u>	<u>Reference</u>
T8-2-012	<u>EMDF BOC Subproject/Phase I Project Supporting Documents (including lessons learned) for CD-4 issued to DOE for PME approval</u>	<u>2/9/2030</u>	<u>Approve – 90 days</u>	<u>C.4.3 CERCLA Disposal Facility Startup DOE O 413.3B</u>
T8-2-013	<u>Supporting documents for EMDF DAS issued to DOE for LFRG approval</u>	<u>7/11/2029</u>	<u>Approve – 90 days</u>	<u>C.4.3 CERCLA Disposal Facility Startup DOE O 435.1</u>
T8-2-014	<u>Tailored CD supporting documentation to DOE for approval by the PME for the Balance of Construction Subproject</u>	<u>6/1/2027</u>	<u>Approve – 90 days</u>	<u>C.4.1, CERCLA Disposal Facility Design DOE O 413.3B</u>
T8-2-015	<u>Phase I Construction Mitigation completion documentation to DOE</u>	<u>2/17/2028</u>	<u>Review – 90 days</u>	<u>C.4.2, CERCLA Disposal Facility Construction CERCLA and FFA</u>
T8-2-016	<u>Draft DOE 435.1 Annual Summary Report for EMDF to DOE</u>	<u>Annually By 1/17</u>	<u>Review – 30 days</u>	<u>C.4.3, CERCLA Disposal Facility Startup</u>
T8-2-017	<u>DOE 435.1 Annual Summary Report for EMDF to DOE</u>	<u>Annually By 3/17</u>	<u>Approve – 180 days</u>	<u>C.4.3, CERCLA Disposal Facility Startup</u>

Attachment J-7-8-2. Subtask Specific Deliverables

Number	<u>Deliverable</u>	<u>Deliverable Due Date</u>	<u>DOE Action Response¹</u>	<u>Reference</u>
<p><u>¹The DOE action is defined as follows:</u></p> <ul style="list-style-type: none"> • <u>Approve – The Contractor shall provide the deliverable to DOE for review and approval. DOE will review the deliverable and provide comments or approve as submitted. If necessary, the Contractor shall revise the document to incorporate mandatory DOE comments and resubmit for DOE approval. Once approved by DOE, the deliverable shall be placed under change control with changes requiring DOE approval. It is not intended that editorial changes or corrections that do not alter commitments would require new DOE approval.</u> • <u>Review – The Contractor shall provide the deliverable to DOE for review. DOE will review the information and will provide comments, as necessary. If necessary, the Contractor shall revise the document to incorporate mandatory DOE comments.</u> • <u>Information – The Contractor shall provide the deliverable for information purposes only. DOE will review the information and may provide comments. Such comments do not require resolution under the Contract.</u> 				
<p>Acronyms</p> <p>BOC Balance of Construction CD Critical Decision CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980 DAS Disposal Authorization Statement DOE Department of Energy EMDF Environmental Management Disposal Facility FFA Federal Facility Agreement GWFD Groundwater Field Demonstration LFRG Low Level Waste Disposal Facility Federal Review Group OREM Oak Ridge Office of Environmental Management PME Project Management Executive RAWP Remedial Action Work Plan RDR Remedial Design Report RDWP Remedial Design Work Plan TO Task Order</p> <p><i>** DOE and Regulatory Actions to follow the standard schedule protocol for primary and secondary documents established per the FFA, including one 30-day extension.</i></p>				

5. Attachment J-8 - Government-Furnished Services and Information (GFS/I)

Attachment J-8-8 includes the following additional GFS/I for this Subtask:

Attachment J-8-8, Subtask Specific GFS/I	
GFS/I	REQUIREMENT
None	

Appendix B.2 - Cost Plus Incentive Fee Agreement

Cost Plus Incentive Fee Summary for SubCLIN 000382

Subtask 8-2 Modification 3 – SubCLIN 000382 Summary*			
	Minimum Fee	Target Fee	Max Fee
Total Estimated Direct Cost:	\$220,685,257	\$207,410,956	\$194,136,655
Cost Incentive Fee:	\$0	\$3,318,575	\$7,964,581
Schedule Incentive Fee:	\$0	\$2,592,637	\$6,222,329
**Performance Incentive Fee:	\$0	\$4,459,336	\$10,702,405
PMI Fee:	\$0	\$2,074,110	\$6,222,329
Total Estimated Price (Direct Cost + Fee):	\$220,685,257	\$219,855,613	\$220,907,784
Total Fee:	\$0	\$12,444,657	\$31,111,643
Total Fee % of Target:	0.00%	6.00%	15.0%

**Excludes SubCLIN 000382-2 Priced Option*

*** Performance Incentives are weighed evenly and paid at Max Fee*

Subtask 8-2 SubCLIN 000382 - Groundwater Field Demonstration Facility (Subproject 2)			
	Minimum Fee	Target Fee	Max Fee
Total Estimated Direct Cost:	\$44,980,222	\$42,274,645	\$39,569,068
Cost Incentive Fee:	\$0	\$676,394	\$1,623,346
Schedule Incentive Fee:	\$0	\$528,433	\$1,268,239
Performance Incentive Fee:	\$0	\$908,905	\$2,181,372
PMI Fee:	\$0	\$422,746	\$1,268,239
Total Estimated Price (Direct Cost + Fee):	\$44,980,222	\$44,811,124	\$41,569,750
Total Fee:	\$0	\$2,536,479	\$6,341,197
Total Fee % of Target:	0.00%	6.00%	15.00%

Subtask 8-2 SubCLIN 000382 - Balance of Construction (Subproject 3)			
	Minimum Fee	Target Fee	Max Fee
Total Estimated Direct Cost:	\$175,705,035	\$165,136,311	\$154,567,587
Cost Incentive Fee:	\$0	\$2,642,181	\$6,341,234
Schedule Incentive Fee:	\$0	\$2,064,204	\$4,954,089
Performance Incentive Fee:	\$0	\$3,550,431	\$8,521,034
PMI Fee:	\$0	\$1,651,363	\$4,954,089
Total Estimated Price (Direct Cost + Fee):	\$175,705,035	\$175,044,490	\$179,338,034
Total Fee:	\$0	\$9,908,179	\$24,770,447
Total Fee % of Target:	0.00%	6.00%	15.00%

Cost Plus Incentive Fee Details for Subtask 8-2 Ground Water Field Demonstration
(Subproject 2)

Period of Performance	Start	End	Calendar Day Duration
	2/8/2024	7/10/2025	518

Step 2. - Task Order Level Inputs			
Task Order Total Target Cost	\$42,274,645		
Task Order Non-fee Bearing Cost	\$ 0		
Task Order Fee Bearing Target Cost	\$42,274,645		
Actual Cost	\$39,118,138	Underrun	7%
Government Share	70%		
Contractor Share	30%		
PMI portion of fee	20%		
Cost, Schedule, Performance portion of fee	80%	100%	

Step 3. - Fee Percentages and Amounts	Percentages	Fee Pool Amounts to SPLIT-OUT into each incentive area
Max Fee on Target Cost (Includes PMI)	15%	\$6,341,197
Target Fee on Target Cost (Excludes PMI)	5.0%	\$2,113,732
Min Fee on Target Cost	0%	\$0

Step 4. - PMI portion	Fee Amounts
PMI Max Fee	\$1,268,239
PMI Target Fee	\$422,746
PMI Min Fee	\$0

Step 5a. - Cost Incentive Fee	From Fee Calculations Sheet:
Target Cost - Contract Level	\$42,274,645
Actual Cost - Contract Level	\$39,118,138
Maximum Cost Incentive Fee Amount	\$1,623,346
Target Cost Incentive Fee Amount	\$676,394
Minimum Cost Incentive Fee Amount	\$0
Government Share	70%
Contractor Share	30%
Fee Amount	\$1,623,346

Step 5b. - Schedule Incentive Fee		From Fee Calculations Sheet:								
	Maximum Fee	\$1,268,239								
	Target Fee	\$528,433								
	Minimum Fee	\$0.00								
Task Breakdown										
	Complete GWFD drainage systems	20%								
	Complete Construction of Cover System	25%								
	GWFD Monitoring Equipment Installation	25%								
	GWFD CD 4-Approval	30%								
	Total	100.00%								
		Complete GWFD drainage systems	Complete Construction of Cover System	GWFD Monitoring Equipment Installation	GWFD CD-4 Approval	Total Schedule Incentives				
	Maximum Fee	\$253,648	\$317,060	\$317,060	\$380,472	\$1,268,239				
	Target Fee	\$105,687	\$132,108	\$132,108	\$158,530	\$528,433				
	Minimum Fee	\$0	\$0	\$0	\$0	\$0				
Actual Completion		Completion Due Date (proposal date)	Days earlier than Completion Date to get Max Fee	Days later than Completion Date to get Target Fee	Days after Completion Date to get Minimum Fee	Min Fee Due Date	Target Fee Due Date	Max Fee Due Date	Target Fee amount	Max Fee Amount
		8/15/2024	40	0	40	9/24/2024	8/15/2024	7/6/2024	\$105,687	\$253,648
		10/9/2024	40	0	40	11/18/2024	10/9/2024	8/30/2024	\$132,108	\$317,060
		11/30/2024	0	-9	-15	11/15/2024	11/21/2024	11/30/2024	\$132,108	\$317,060
		7/10/2025	40	0	40	8/19/2025	7/10/2025	5/31/2025	\$158,530	\$380,472
									\$528,433	\$1,268,239

Step 5c. - Performance Incentive Fee	From Fee Calculations Sheet:
Maximum Fee	\$2,181,372
Target Fee	\$908,905
Minimum Fee	\$0
Number of interim tasks	8
Interim %	100%

All Dates are Calendar Dates			
Interim Performance Incentive Milestones (See Attached Completion Criteria)	Interim Completion Due Date (Informational Only)	Even Weighting	Maximum Fee amount
Complete Bat Tree Felling	3/31/2024	12.50%	\$272,671
Complete GWFD Monitoring Equipment Installation	11/30/2024	12.50%	\$272,671
Complete GWFD drainage systems	8/15/2024	12.50%	\$272,671
Complete Construction of Cover System	10/9/2024	12.50%	\$272,671
7B Borrow Area Construction Complete	8/7/2024	12.50%	\$272,671
Utility Installation and 161kV abandonment Completion	3/11/2025	12.50%	\$272,671
GWFD Subproject Construction Completion	3/11/2025	12.50%	\$272,671
GWFD CD-4 Approval	7/10/2025	12.50%	\$272,671
Total Field Work		100.00%	\$2,181,372

Cost Plus Incentive Fee Details for Subtask 8-2 Balance of Construction

Period of Performance	Start	End	Calendar Day Duration
	2/8/2024	5/9/2030	2,282

Step 2. - Task Order Level Inputs			
Task Order Total Target Cost	\$	165,136,311	
Task Order Non-fee Bearing Cost	\$	-	
Task Order Fee Bearing Target Cost	\$	165,136,311	
Actual Cost		\$152,806,133	Underrun 7%
Government Share		70%	
Contractor Share		30%	
PMI portion of fee		20%	
Cost, Schedule, Performance portion of fee		80%	100%

Step 3. - Fee Percentages and Amounts	Percentages	Fee Pool Amounts to SPLIT- OUT into each incentive area
Max Fee on Target Cost (Includes PMI)	15%	\$24,770,447
Target Fee on Target Cost (Excludes PMI)	5.0%	\$8,256,816
Min Fee on Target Cost	0%	\$0

Step 4. - PMI portion	Fee Amounts
PMI Max Fee	\$4,954,089
PMI Target Fee	\$1,651,363
PMI Min Fee	\$0

Step 5a. - Cost Incentive Fee	From Fee Calculations Sheet:
Target Cost - Contract Level	\$165,136,311
Actual Cost - Contract Level	\$152,806,133
Maximum Cost Incentive Fee Amount	\$6,341,234
Target Cost Incentive Fee Amount	\$2,642,181
Minimum Cost Incentive Fee Amount	\$0
Government Share	70%
Contractor Share	30%
Fee Amount	\$6,341,234

Step 5b. - Schedule Incentive Fee		From Fee Calculations Sheet:
Maximum Fee		\$4,954,089
Target Fee		\$2,064,204
Minimum Fee		\$0.00
Treatability Study (Bench Testing)		
		20%
UCOR Submit D2 Background Report		
		20%
CD-2/3 Approval Memorandum Issued		
		20%
UCOR Submit D2 RAWP		
		20%
EMDF CD-4 Approved Landfill /Balance		
		20%
Total		100.00%

	Treatability Study (Bench Testing)	UCOR Submit D2 Background Report	CD-2/3 Approval Memorandum Issued	UCOR Submit D2 RAWP	EMDF CD-4 Approved Landfill /Balance	Total Schedule Incentives
Maximum Fee	\$990,818	\$990,818	\$990,818	\$990,818	\$990,818	\$4,954,089
Target Fee	\$412,841	\$412,841	\$412,841	\$412,841	\$412,841	\$2,064,204
Minimum Fee	\$0	\$0	\$0	\$0	\$0	\$0

All Dates are Calendar Dates									
All Dates are Calendar Dates	Completion Due Date (proposal date)	Days earlier than Completion Date to get Max Fee	Days later than Completion Date to get Target Fee	Days after Completion Date to get Minimum Fee	Min Fee Due Date	Target Fee Due Date	Max Fee Due Date	Target Fee Amount	Max Fee Amount
Treatability Study (Bench Testing)	5/22/2025	40	0	40	7/1/2025	5/22/2025	4/12/2025	\$412,841	\$990,818
UCOR Submit D2 Background Report to OREM for submittal to regulators	8/21/2028	40	0	40	9/30/2028	8/21/2028	7/12/2028	\$412,841	\$990,818
CD-2/3 Approval Memorandum Issued	2/9/2028	40	0	40	3/20/2028	2/9/2028	12/31/2027	\$412,841	\$990,818
UCOR Submit D2 RAWP to OREM for Submittal to regulators	12/18/2029	40	0	40	1/27/2030	12/18/2029	11/8/2029	\$412,841	\$990,818
EMDF CD-4 Approved Landfill /Balance	5/9/2030	40	0	40	6/18/2030	5/9/2030	3/30/2030	\$412,841	\$990,818
Total								\$2,064,204	\$4,954,089

Step 5c. - Performance Incentive Fee	From Fee Calculations Sheet:
Maximum Fee	\$8,521,034
Target Fee	\$3,550,431
Minimum Fee	\$0
Number of interim tasks	8
Interim %	100%

	Interim Tasks Fee Amounts
Maximum	\$8,521,034
Target	\$3,550,431
Minimum	\$0

All Dates are Calendar Dates			
Interim completion fee (see Performance Incentive Completion Criteria)	Interim Completion Due Date (Informational Only)	Even Weighting	Fee amount
UCOR submit D2 WAC Compliance Plan to OREM for submittal to regulators	1/15/2026	12.50%	\$1,065,129
UCOE submit D2 RDR/RAWP to OREM for submittal to regulators	2/17/2027	12.50%	\$1,065,129
BOC CD-2/3 Document Approved	2/9/2028	12.50%	\$1,065,129
Install Multilayer Liner System on Cells 1 and 2	10/10/2029	12.50%	\$1,065,129
Phase 1 - LWTS & Tank Farm	10/15/2029	12.50%	\$1,065,129
EMDF Complete Construction	1/23/2030	12.50%	\$1,065,129
Disposal Authorization Statement Approved	4/11/2030	12.50%	\$1,065,129
EMDF CD-4 Approved Landfill /Balance	5/9/2030	12.50%	\$1,065,129
Total Field Work		100%	\$8,521,034

Performance Incentive Completion Criteria

**ORRCC
PERFORMANCE MILESTONE
No. 8-2A-01**

Title: Complete Bat Tree Felling

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Completion of the bat tree felling within the Groundwater Field Demonstration Scope included in subtask 8-2 prior to the U.S Fish and Wildlife Service required date of March 31, 2024.

Fee Bearing Milestone: The Contractor shall earn fee upon DOE validation that all required bat trees have been felled.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Completion of felling of bat trees identified by DOE.

Completion of bat tree portions that are part of the tree clearing in Subtask 8-2.

Note: Trees shall be removed by mechanical enclosed equipment. Clear trees in GY-019/GY-020 area of concern last.

This milestone is associated with PWS C.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2A-02**

Title: GWFD Monitoring Equipment Installation

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Groundwater piezometers and monitoring equipment required by the GWFD Remedial Design Work Plan (RDWP)/Remedial Action Work Plan (RAWP) installed and ready to use.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of installing all new piezometers, replacement of abandoned piezometer, and retrofitting existing piezometer along with installation of required monitoring equipment. Work is to be performed to meet the approved GWFD RDWP/RAWP.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Completion of installation of three new piezometers.
- Completion of installation of two new piezometers replacing two previously abandoned piezometers.
- Installation and functioning monitoring equipment to determine groundwater elevations.
- Work must be completed no later than November 31, 2024, but no sooner than November 1, 2024.
- Project demobilization may occur after November 31, 2024.

Completion of monitoring equipment are part of Activity DFGWFD230 in Subtask 8-2.

Note: All work is to be completed in accordance with the approved design, work plans and regulator approved RDWP. All work to be completed accordance with the approved Key Performance Parameters.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2A-03**

Title: Complete GWFD drainage systems

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Completion of installation of all GWFD drainage system.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all drainage systems in accordance with designs associated with the GWFD subproject 2.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Completion of northern trench.
- Completion of installation of required four new culverts under old Haul Road
- Completion of installation of drainage system identified in the Final Design Report for Groundwater Field Demonstration
- Completion of installation of the two new sedimentation ponds.

Completion of drainage system are part of Activity DFGWFD120 in Subtask 8-2.

Note: Work is to include enhancements presented by UCOR to ensure a successful project. All work to be completed in accordance with the approved Key Performance Parameters.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2A-04**

Title: Complete Construction of Cover System

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Completion of construction of GWFD cover system.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all activities associated with the installation of the GWFD cover system (geomembrane).

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Installation of approximately 25-acre engineer turf cover system
- Installation of ½ to ¾ inch engineer sand.
- Completion of installation of cover system identified in the Final Design Report for Groundwater Field Demonstration

Completion of cover system are part of Activity DFGWFD200 in Subtask 8-2.

Note: An engineered turf cover system will be installed in accordance with the approved design. All work to be completed in accordance with the approved Key Performance Parameters.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2A-05**

Title: 7B Borrow Area Construction Complete

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Safe and Compliant Completion

Desired Endpoint/Outcome: Completion of construction of the 7B Borrow area.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all activities associated with the construction of the 7B Borrow area.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Includes clearing an additional ~5 acres that make up the remainder of 7b.
- Complete construction of the staging area.
- Complete installation of sediment and erosion control.
- Complete construction of drainage ditches at 7b site.
- Complete construction of approximately 0.25 acre sediment trap.
- Seed & Mulch Borrow Area Site 7b.

Completion of 7b borrow area are part of Subtask 8-2

Note: The majority of the staging area will be constructed in the Early Site Preparation Subproject, and the remaining ~30 ft × 67 ft will be constructed in the GWFD Subproject. All work to be completed in accordance with the approved Key Performance Parameters.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORCC
PERFORMANCE MILESTONE
No. 8-2A-06**

Title: Utility Installation and 161kV Abandonment Completion

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Safe and Compliant Completion

Desired Endpoint/Outcome: Completion of all 12-inch water line installation, 13.8kV electrical line extension components and removal of abandoned 161kV infrastructure within the OSWDF footprint.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all activities associated with the 12-inch water line installation, 13.8kV electrical Line Extension activities and removal of abandoned 161kV infrastructure within the OSWDF footprint.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Complete abandoned 161 kV power transmission line.
- Complete electrical power extension from Y-12's existing 13.8-kV, 3-phase overhead distribution line to the OSWDF site support area.
- Complete installation of pole hardware & set poles/guys for power line
- Complete installation of conductors & lines
- Complete installation of transformer at termination pole at construction support area
- Complete inspection & acceptance by Y-12 AHJ.
- Complete Y-12 final tie-in at roads & grounds facility.
- Complete Y-12 installation of electric to OSWDF Trailer.
- Complete install all 12 inch line piping.
- Complete erect backflow preventer building and perform grounding.
- Complete installation of piping and meters.
- Complete installation of fire hydrants and end valves
- Complete installation of 480V and electrical components
- Complete hydrotest.
- Complete site restoration.
- Complete tie-in of backflow preventer building power to transformer

Completion of GWFD water line and electrical part of Subtask 8-2.

Note: All work to be completed in accordance with the approved design and Key Performance Parameters.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

ORRCC
PERFORMANCE MILESTONE
No. 8-2A-07

Title: GWFD Subproject Construction Completion

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Safe and Compliant Completion

Desired Endpoint/Outcome: Completion of all GWFD subproject activities.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all activities associated with the GWFD subproject 2 activities.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Complete installation of potable water extension from the City of Oak Ridge's existing 24-in. water main to the OSWDF site support area.
- Completion of structural excavation - grading/slopes/rip rap.
- Completion of restoration and de-mobilize from site.

Completion of GWFD subproject 2 in Subtask 8-2.

Note: Includes all GWFD scope not singled out in other performance milestones. All work to be completed in accordance with the approved Key Performance Parameters.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

ORRCC
PERFORMANCE MILESTONE
No. 8-2A-08

Title: GWFD CD-4 Approval

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Safe and Compliant Completion

Desired Endpoint/Outcome: Completion of all CD-4 support activities including documents.

Fee Bearing Milestone: The Contractor shall earn fee upon the GWFD subproject receiving CD-4 approval.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Complete preparing and approval of CD-4 documents by the PME
- Complete as-builts
- Complete demonstration of meeting all Key Performance Parameters.
- Complete all support necessary to obtain CD-4 approval.

Completion of GWFD subproject 2 in Subtask 8-2.

Note: All work to be completed in accordance with DOE Orders and the approved Key Performance Parameters.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

ORRCC
PERFORMANCE MILESTONE
No. 8-2B-01

Title: D2 Waste Acceptance Criteria (WAC) Compliance Plan Submittal

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: UCOR Submittal of the D2 WAC Compliance Plan

Fee Bearing Milestone: The Contractor shall earn fee upon DOE acceptance of D2 WAC Compliance Plan for submittal to regulators.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Submittal of final supplemental analysis as required by EMDF Record of Decision
- Submittal of D1 WAC compliance Plan to DOE for submittal to regulators
- Submittal of future D2 (or D2 revisions) WAC Compliance Plan to DOE if D1 is not approved.

Completion of WAC compliance plan as required for Post ROD documents under Subtask 8-2.

Note: Work and documents should be performed/prepared in accordance with the Federal Facility Agreement.

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2B-02**

Title: UCOR submit D2 RDR/RAWP to OREM for submittal to regulators

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: UCOR submits D2 RDR/RAWP meeting Federal Facility Agreement requirement to OREM for submittal to regulators

Fee Bearing Milestone: The Contractor shall earn fee upon DOE acceptance of D2 RDR/RAWP for submittal to the regulators

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Submittal of D1 RDR/RAWP to DOE for submittal to regulators
- Submittal of future D2 (or D2 revisions) RDR/RAWP to DOE, if D1 is not approved.

Completion of RDR/RAWP as required for Post ROD documents under Subtask 8-2.

Note: Work and documents should be performed/prepared in accordance with the Federal Facility Agreement.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2B-03**

Title: BOC CD-2/3 Document Approved

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Completion of all contractor supply documents that allows for CD-2/3 approval of Balance of Construction Subproject 3.

Fee Bearing Milestone: The Contractor shall earn fee upon approval of CD-2/3 from the Project Management Executive.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Completion of 413.3B documents.
- Finalize documents for CD-2/3 External Independent Review
- Completion of 413.3B documents after reviews prior to EM Acquisition Advisory Board.
- CD-2/3 Approval Memo issued by PME.

Completion of 4.13B documents is covered under Subtask 8-2.

Note: Work and documents should be performed/prepared in accordance with DOE Orders.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2B-04**

Title: Install Multilayer Liner System for Phase I Disposal Capacity

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Completion of installation of multilayer liner system for Phase I disposal capacity in accordance with the approved final design.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all activities required to complete installation of multilayer liner system for Phase I disposal capacity in accordance with the approved final design .

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Complete clearing & grubbing, stripping and stockpiling of soil.
- Complete earthwork, including grading cells 1, 2, the portion of 3 required for future tie-in, and berms.
- Complete installation of geobuffer layer for cells 1, 2, and the portion of 3 required for future tie-in.
- Complete Phase 1 installation of multilayer liner system.

Note: All work is to be completed in accordance with the approved design and work plans. All work to be completed accordance with CD-2/3 approval requirements.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2B-05**

Title: Phase 1 - LWTS & Tank Farm

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Completion of the construction of the Leachate Wastewater Treatment System (LWTS) and Tank Farm.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all activities associated with construction of the LWTS and associated collection system.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Completion of the LWTS and Tank Farm.
- Completion of the contact water removal system.
- Completion of connection system between the landfill and LWTS.
- Completion of as-built drawings for the LWTS and Tank Farm.

Note: All work is to be completed in accordance with the approved design and work plans. All work to be completed in accordance with CD-2/3 approval requirements.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR, and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2B-06**

Title: EMDF Complete Construction

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Safe and Compliant Completion

Desired Endpoint/Outcome: Completion of all EMDF Balance of Construction Subproject 3 activities.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all activities associated with the GWFD Subproject 3 activities.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Completion of landfill construction.
- Completion of instrumentation and control systems.
- Completion of installation of potable water system.
- Completion of security systems.
- Completion of temporary access roads and dump ramps.
- Completion of site restoration and demobilization.
- Completion of as-built drawings for Phase I construction.

Note: All work is to be completed in accordance with the approved design and work plans. All work to be completed in accordance with CD-2/3 approval requirements.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.2

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2B-07**

Title: Disposal Authorization Statement Approved

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Approval of the operational authorization statement.

Fee Bearing Milestone: The Contractor shall earn fee upon completion of all activities associated with approval of the disposal authorization statement.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- All DOE O 435.1 documents and activities necessary to obtain a Disposal Authorization Statement.
- Completion of DOE O 435.1 documents and activities under Subtask 8-2 resulting in an approved Disposal Authorization Statement.

Note: Work and documents should be performed/prepared in accordance with DOE Orders.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.3.

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

**ORRCC
PERFORMANCE MILESTONE
No. 8-2B-08**

Title: EMDF CD-4 Approved Landfill /Balance of Construction and Phase I Project

Incentive Fee Amount: Refer to Performance Incentive Milestones

Fee Structure: Activity Completion

Desired Endpoint/Outcome: Completion and approval of CD-4 activities including documents.

Fee Bearing Milestone: The Contractor shall earn fee upon receiving Balance of Construction (BOC) Subproject 3/EMDF Phase I Project CD-4 approval from the Project Management Executive.

Work scope/completion criteria:

Specific activities required to satisfy this milestone are:

- Complete demonstration of meeting all Key Performance Parameters.
- Complete preparation and approval of CD-4 documents.
- Participation in reviews required to obtain CD-4 approval.
- Complete input to Lessons Learned.

Note: All work to be completed in accordance with DOE Orders and the approved Key Performance Parameters.

Completion date: Refer to Performance Incentive Milestones

This milestone is associated with PWS C.3.4.3.

Completion document: DOE Verification with written documentation, submitted by UCOR and acceptance by DOE of work completion.

Appendix B.9

The identification of fee risk ownership for both the Government and the Contractor is set forth below.

Risk ID	Title	Statement of Event	Type	Owner
TO-8-03	Ineffective Execution	If project management execution is not effective, in that other DOE program offices contractors, EM prime contractors, or other agreements established under Memorandum of Agreement(s) cannot fulfill DOE's commitments to UCOR, then Subtask schedule and cost performance may be impacted.	Risk	DOE
TO-8-04	Changes in Security Requirements	If federal security requirements increase, then cost and schedule performance may be impacted.	Risk	DOE
TO-8-05	Transportation Interruption	If another DOE prime contractor causes a waste transportation event on the reservation (e.g., spread of contamination) that results in a shutdown of waste transportation, then cost and schedule performance may be impacted.	Risk	DOE

Risk ID	Title	Statement of Event	Type	Owner
TO-8-07	Designated Landfills Unavailable	If waste disposal facilities are not available when needed for waste disposal (e.g., due to unforeseen events such as temporary closure due to violations by another DOE prime contractor or significant weather event), then schedule and cost performance may be impacted.	Risk	DOE
TO-8-09	Unexpected Hazards/Conditions	If differing site conditions are encountered that could not have been reasonably foreseen, then schedule and cost performance may be impacted. Includes unexpected contamination.	Risk	DOE
TO-8-13	Design(s) Changes Needed	If DOE directs changes (outside from additional regulatory requirements or changes to DOE policy/mission) to designs/technical approaches once design is finalized, then technical cost, schedule and performance could be impacted. <u>This includes unplanned revisions between the Preliminary Design and Final Design not initiated by UCOR.</u>	Risk	DOE

Risk ID	Title	Statement of Event	Type	Owner
TO-8-14	Regulatory Approval Delayed/Additional Requirements Added	If regulators take longer than the prescribed/planned protocols to approve regulatory documents, or impose additional requirements, then schedule and cost performance may be impacted.	Risk	DOE
TO-8-16	Delays in internal/external DOE approval of required documents	If DOE takes longer than planned to approve procedural documents, then cost and schedule performance may be impacted. Documents may include: DOE O 413.3B, Contract Award, Design documents, regulatory documents, waste handling plans, project management plans, etc.	Risk	DOE
TO-8-18	Change in ES&H Requirements - DOE Initiated	If DOE initiates ES&H requirements change, then cost and schedule performance may be impacted.	Risk/ Opportunity	DOE
TO-8-20	Extreme Weather	If an extreme weather event occurs (e.g., rain, heat, cold/snow, high winds/tornado, earthquake), then cost, schedule or technical performance may be impacted.	Risk	DOE
TO-8-22	Industrial Accidents	If an industrial accident by another DOE prime contractor occurs that results in a temporary shutdown of field activities, then schedule and cost performance may be impacted.	Risk	DOE

Risk ID	Title	Statement of Event	Type	Owner
TO-8-25	Inadequate Infrastructure Space - Non-foreseeable	If local parking, laydown, administrative, training, and changing facilities are not located at or near the job site, due to unforeseeable circumstance, then shuttle bus service may be needed to get workers to the job site, and additional laydown area accommodations may be needed. Subtask cost and schedule performance may be impacted due to cost of alternative measures and lower worker efficiency.	Risk	DOE
TO-8-27	Non-WAC Compliant Waste - Non-Foreseeable	If waste planned for onsite disposal does not meet the onsite disposal Waste Acceptance Criteria (WAC) due to unforeseeable circumstance, then treatment/off-site disposal may be required.	Risk	DOE

Risk ID	Title	Statement of Event	Type	Owner
TO-8-31	Bids Differ from Estimates	If subcontractor/ supplier bids are less or greater than estimates (including supply chain & inflation impacts), then project cost and schedule performance may be impacted.	Risk/ Opportunity	<p>Shared: UCOR will include mitigation for for Tree Felling subcontractor Change Orders increasing the estimated cost by up to 5%.</p> <p><u>Shared: UCOR will include mitigation for Balance of Construction subcontract bids exceeding total negotiated value by up to +/-5% and +/- \$300,000.</u></p>

Risk ID	Title	Statement of Event	Type	Owner
TO-8-32	Change in Planned Quantities Needed	If planned quantities or work processes (i.e., materials, characterization/ verification samples, waste/soil volumes) are more or less than estimated, then cost and schedule performance may be impacted.	Risk/ Opportunity	<p>Shared: UCOR will include mitigation for up to 5% of excavated materials for Borrow Area 7b development and utility installations being contaminated, requiring characterization and segregation prior to disposal. This mitigation includes [TBD] of contaminated soil with [TBD] swell to be removed, packaged, and shipped for disposal.</p> <p><u>Shared: UCOR will include mitigation for 1) unsuitable soil excavation up to +/- 10% different from the estimated volume (208,730 CY); and 2) structural soil import volume up to +/-10% different from the estimated volume (88,449 CY).</u></p>
TO-8-35	Contaminated Equipment Not Releasable	If release conditions cannot be met due to unforeseeable and unpreventable conditions, then non-government equipment may need to be purchased and dispositioned.	Risk/ Opportunity	DOE

Risk ID	Title	Statement of Event	Type	Owner
TO-8-36	Change in Mission or Policy - DOE Initiated	If DOE initiates mission or policy requirements change, then Subtask cost and schedule performance may be impacted. Includes other than ES&H related, for example - cyber security.	Risk/ Opportunity	DOE
TO-8-38	Supply Chain - Material/Equipment Availability - Non-foreseeable	If unforeseeable supply chain issues impact material/equipment availability or lead times, then Subtask cost and schedule may be impacted.	Risk	DOE