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Statement of Work
Demonstration, Testing and Evaluation (DT&E) Program
Potential Demonstration Site Information
903 Pad Soils Remediation

Environmental Restoration Division
EG&G Rocky Flats Plant
July 30, 1990

ADMIN RECORD

A-OU02-001561

During drum removal and cleanup activities associated with the 903 Drum Storage Site, winds distributed plutonium beyond the pad to the south and east. Although some plutonium-contaminated soils were removed, radioactive contamination is still present at the 903 Lip Site in the surficial soils.

The seller shall perform the demonstration at Operable Unit #4. This land is approximately 16 miles northwest of the city of Denver, Colorado. The attached map shows proximity to local populations and proximity to other OU's.

Characterization: Preliminary data show the soil at the site to be contaminated with plutonium, americium and organic compounds. Composite samples from zero to nine feet have indicated plutonium concentration at 3.2 pCi/g and americium concentration at 0.22 pCi/g.

Maximum concentrations of detected organic compounds are:

TCE	16,000	ug/kg
PCE	10,000	ug/kg
1.1.1-TCA	250	ug/kg
Acetone	1,100	ug/kg

Additional sampling is necessary for more detailed characterization.

Utilities and Access: Potable water will need to be transported to the site. Electricity can be restored to the site with an advance notice of two to six months. Portable generators can be used in the interim.

Major utilities which may be required are available near the 903 Pad Area. The following is a list of services and their approximate location from the center of the Pad:

Electrical	350 ft.
Potable water	920 ft.
Sanitary sewer	960 ft.
Process waste line	2000 ft.
Steam line	1100 ft.

Roadways to the site are in good condition. Minor upgrades to the site may be required for large equipment access. There is enough room for placement of a treatment facility without conflicting with existing structures.

The 903 Pad Area is easily accessible with existing roadways. Minor upgrades may be required for large equipment access. Some of the areas within this site are restricted for safety reasons, but these can be accessed most of the time by following Rocky Flats procedures

3.0 Treatment Goals

The RFP site is seeking treatment technology that will remove, reduce or immobilize the concentration of contaminants in soil through separation, destruction or stabilization processes. If a single treatment method can not meet these requirements for one or more of the constituents, techniques which can be used in conjunction with other technologies for complete treatment will also be considered. The intent is to determine through field demonstration the ability of proposed technologies to approach cleanup standards. This information will be used in future feasibility studies at RFP.

A second objective is to consider reducing the volume and classification of any secondary effluent. It is desirable to generate secondary effluent that are either radioactive or hazardous waste as opposed to mixed waste.

Due to the limited time frame for the demonstration, it is not required to demonstrate complete decontamination; rather, the goal is to demonstrate the applicability of the technology for use in future U.S. Department of Energy projects.

4.0 Other Considerations

This site is located within a CERCLA Operable Unit, activities will be coordinated with an ongoing remedial investigation. Coordination will be accomplished through a technical coordinator who will be a DOE contractor. The seller

will provide a person to be a point of contact for this coordinator. This point of contact will be responsible for providing technical support during briefings to the DOE and regulatory agencies as needed.

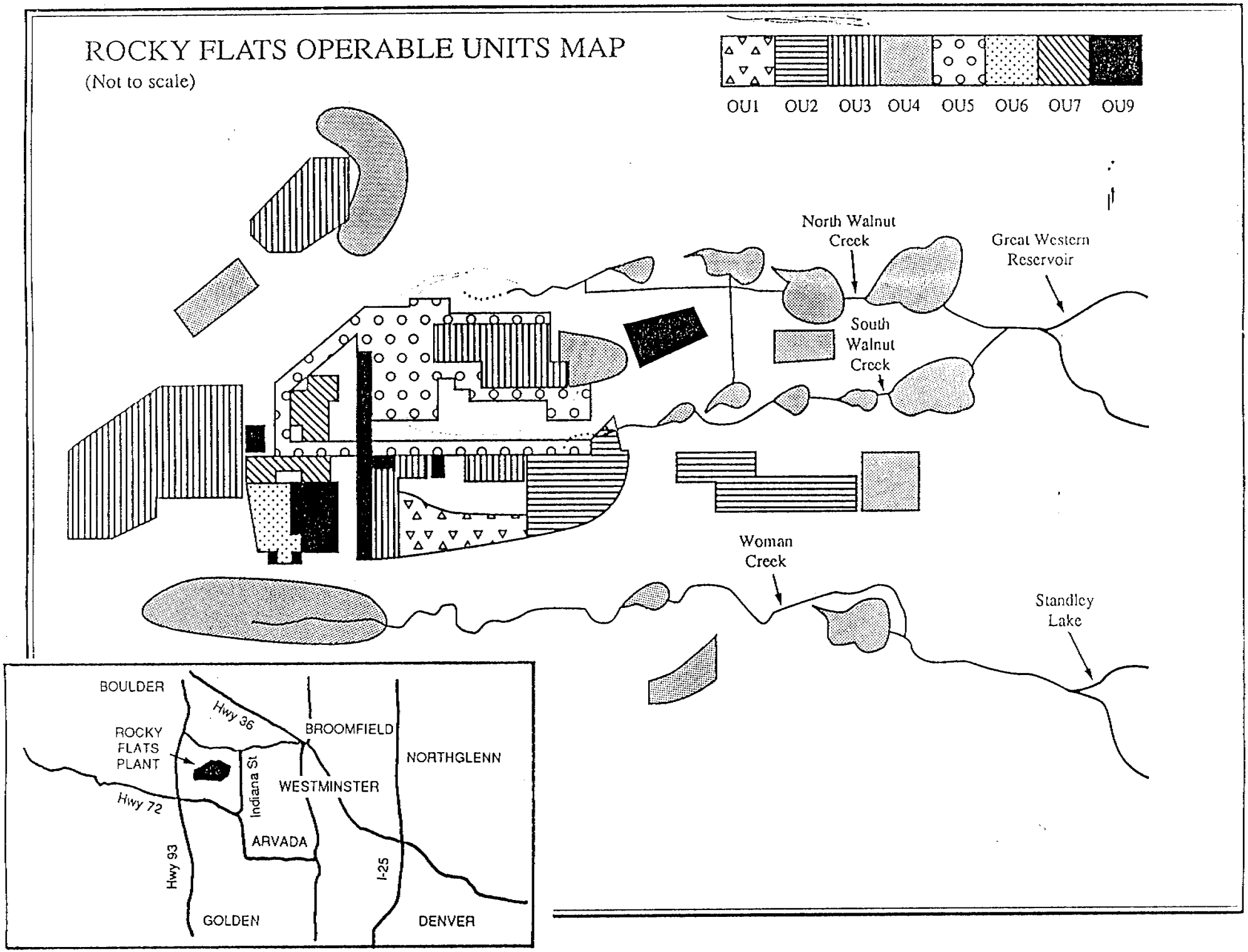
The seller should describe, provide information on, and estimate cost associated with the following activities within the proposal.

- Treatment and Disposal of Secondary Effluent - secondary effluent must be treated and packaged according to RFP requirements for storage or disposal. These costs are technology-specific and should be included within the bid package. Treatment, packaging, storage, and disposal requirements and cost information can be made available upon request.
- Permit Preparation - if the proposed technology has an off-gas stream, air quality permits may be required. The seller would be responsible for preparation of this permit.
- NEPA Documentation - preparation of NEPA documentation will be required. The seller would be responsible for preparation of this documentation.

- Treatability Test Plan - a treatability test plan must be prepared for review and approval by EG&G, DOE, Colorado Department of Health and EPA Region VIII. The approval cycle requires briefing to the site contractor landlord and environmental restoration staff, the site contractor technology development staff, the DOE-RFO, and the regulators. It will also require preparation for, attendance of, and response to requested meetings with DOE and EPA to address specific issues. The test plan must include test objectives, description of the test and evaluation procedures, and sampling and analysis data/approach.

- Health and Safety Plan - this plan must be prepared by the seller to cover the test preparation, operation, and closeout activities. It will be an amendment to an existing site health and safety plan.
- QA Plan - a QA plan must be prepared.

- Chemical/Physical Analysis - analytical work on samples taken before, during, or after technology demonstration that are specific to determining the efficiency of the technology and success of the test should be included in the bid.

ROCKY FLATS OPERABLE UNITS MAP

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