

RFI/RI WORK PLAN FORMAT

Executive Summary

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1.0 INTRODUCTION

The purpose of the work plan is to present the following information: 1) the initial evaluation of the existing unit data; 2) relevant background information; 3) the regulatory framework for the unit investigation; 4) the evaluations and decisions made during the scoping process; and 5) the scope and objectives of the planned RI/FS activities.

1.1 RFI/RI Work Plan Organization

Provides a description of the organization of the report.

1.2 Regulatory Background

1.2.1 RCRA Facility Investigation (RFI) Program

Provides a description of the regulatory background for the application of RCRA 3004(u) at SRS and for unit specific issues.

1.2.2 CERCLA Remedial Investigation (RI) Program

Provides a description of the regulatory background for the application of CERCLA at SRS and for unit specific issues.

1.2.3 Summary of Unit Description

Provides a brief, summary description of the unit history, characteristics, and setting. Unit setting includes physical location, ecological setting, geological setting, hydrological setting, demographics, and infrastructure description.

2.0 PRELIMINARY UNIT EVALUATION

The purpose of this section is to provide the reader with a summary description of the existing information available for the unit.

2.1 Introduction

Provides a brief introduction of preliminary unit evaluation topics.

2.2 Unit Characteristics

Provides a discussion of the background information on the characteristics of the waste unit such as unit-specific geologic and hydrogeologic properties, climatic conditions, physical setting, waste composition (as appropriate), and history of the unit.

2.3 Existing/Previous Investigations

Provides a discussion of the history, chronology, and results of previous investigations.

2.4 Unit Evaluation Conclusions

Provides a discussion, based on the information from Sections 2.2 and 2.3, of whether or not the unit and surrounding media have been impacted in a general sense.

2.5 Operable Unit Strategy

Provides the preliminary anticipated operable unit strategy based on the current understanding of the CSM utilizing process history and existing data. The strategy will outline the entire RI/FS process for the operable unit.

2.6 Potential ARARs and TBC Criteria

Provides a preliminary list of the applicable or relevant and appropriate requirements (legally binding laws and regulations) and "to-be-considered" factors (criteria, guidance, and proposed standards) for the unit. These are to be used to establish preliminary remediation objectives (e.g., cleanup goals) early in the RCRA/CERCLA process.

2.7 Potential Corrective Measures Study/Feasibility Study Options

Provides a preliminary list of corrective measures and/or feasibility study options that may be applicable to the unit.

2.7.1 Innovative Remedial Technologies

Provides a listing and a discussion of treatability study options that may be considered for the unit.

2.8 Potential Early and/or Interim Remedial Actions

Provides a discussion and a preliminary list of early and/or interim remedial actions that may be applied at the unit.

2.8.1 Early Action Strategy

Provides the justification for selecting an early action for a portion or entire operable unit. Includes the Early Action Strategy flowchart and discussion of its utilization.

3.0 DATA QUALITY OBJECTIVES (DQO)

The purpose of this section is to provide a discussion of DQOs. DQOs are quantitative and qualitative descriptions of the information required to achieve project goals. They apply to all unit remediation activities including, but not limited to, scoping for potential contamination, verifying contamination, characterizing the extent and concentration of contamination, risk assessment, evaluation and design of alternative clean-up remedies, and monitoring cleanup. The focus of the DQO development process is effective and efficient planning for data collection. The DQO process is participatory, encouraging input and consensus from all data users. The process is intended to encourage effective, efficient thinking about key data planning issues, thus bringing increased understanding and acceptance of project goals. The DQO process is a series of planning steps based on the Scientific Method (see 3.1.2 to 3.1.8 below) and are detailed in EPA540-R-93-071, "Data Quality Objectives Process for Superfund". The DQO process provides a systematic, flexible approach to decision-making. The steps are portrayed sequentially, but the DQO process is iterative.

3.1 DQO Evaluation

3.1.1 Conceptual Site Model (CSM)

Presents the known and suspected sources of contamination, the types of contaminants and potentially affected media, the known and potential routes of migration, and the known or potential human and environmental receptors. In addition to assisting in identifying locations where sampling is, or is not (based on existing data) necessary, the CSM also assists in the identification of potential remedial technologies.

3.1.1.1 Exposure/Physical Attributes of (CSM)

Provides an expanded discussion and/or details of the physical and exposure attributes as presented in the CSM.

3.1.2 State the Problem

Provides a summary statement of the problem that will require new environmental data, and identifies the resources to resolve the problem.

3.1.3 Identify the Decisions

Provides a discussion of the decisions that require new environmental data to address the problem.

3.1.4 Identify the Inputs to the Decisions

Provides a discussion of the information needed to support the decision, and specifies which inputs require new environmental measurements.

3.1.5 Define the Boundaries of the Study

Provides a discussion of the spatial and temporal aspects of the problem that the data must represent to support the decision.

3.1.6 Develop Decision Rules

Provide the logical statements that define the conditions that would cause the decision maker to choose among alternative actions. These decision rules encompass the entire RCRA/CERCLA process.

3.1.7 Specify the Limits on Decision Errors

Provides a discussion of the specifics for the decision maker's acceptable limits on decision errors, which are used to establish performance goals for limiting uncertainty in the data.

3.1.8 Optimize Design for Obtaining Data

Provides a discussion of the most resource-effective sampling and analysis design for generating the data that are expected to satisfy the DQO process needs.

3.2 Summary of DQO Evaluation

Provides a summary discussion of the information developed in support of the DQO process.

4.0 UNIT ASSESSMENT

4.1 Objectives

Provides a discussion of the unit characterization objectives as they address the CSM and meet the DQO process needs.

4.2 Primary Source Characterization

Provides a discussion of the specific investigation activities to be implemented and the analytical parameters to be obtained in order to characterize the primary source(s) of contamination as depicted by the CSM and as required by DQO process needs.

4.3 Secondary Source Characterization

Provides a discussion of the specific investigation activities to be implemented and the analytical parameters to be obtained to characterize the secondary sources as depicted by the CSM and as required by DQO process needs.

4.4 Exposure Media Characterization

Provides a discussion of the specific investigation activities to be implemented and the analytical parameters to be obtained to characterize the exposure media impacted as depicted by the CSM and as required by DQO process needs.

4.5 Physical Characteristics

Provides a discussion of the specific investigation activities to be implemented and the physical/analytical parameters to be obtained to provide the data needed to accommodate the CSM and as required by DQO process needs. (The DQO process will ensure feasibility and treatability study data needs are met.)

5.0 SCHEDULE

Provides an explanation of the implementation schedule.

6.0 SAFETY, HEALTH, AND EMERGENCY RESPONSE PLAN

Provides a statement informing the reader that a unit specific health and safety plan, in accordance with 29 CFR 1910.120 and SRS health and safety requirements, will be generated for the specific characterization activities detailed in the Unit Assessment section.

7.0 QUALITY ASSURANCE/QUALITY CONTROL PLAN

Provides a reference to the existing quality assurance/quality control documents that are in place and in use (e.g., WSRC 1Q).

8.0 DATA MANAGEMENT PLAN

Provides a reference to the existing data management documents that are in place and in use (e.g., FFA Appendix J, Data Management Plan).

REFERENCES

Provides a list of references used for the preparation of the document.