



This document presents the work plan for the Phase I RCRA Facility Investigation/Remedial Investigation (RFI/RI) of the Woman Creek drainage Operable Unit No 5 (OU 5). The work plan is based on the requirements of the Interagency Agreement (IAG) among the Department of Energy (DOE), the Environmental Protection Agency (EPA), and the Colorado Department of Health (CDH). Ten IHSSs are located in OU 5. They are the Original Landfill (IHSS 115), the Ash Pits (IHSS 133.1, 133.4), the Incinerator (IHSS 133.5), the Concrete Wash Pad (IHSS 133.6), Detention Ponds C 1 and C 2 (IHSS 142.10 and 142.11), and the surface disturbance (IHSS 209). Two additional surface disturbances located south of the Ash Pits and west of IHSS 209 have been identified and included in this work plan.

Project work, as specified in the IAG, may proceed through several phases of investigation as data are collected. Results from the field work for OU 5 will be documented in a draft Phase I RCRA Facilities Investigation/Remedial Investigation (RFI/RI) report. This draft report will include a Preliminary Site Characterization and recommend work to be performed for the Phase II investigation. DOE is not to commence the next investigatory phase prior to receiving approval of the Final Phase I Report for OU 5 and approval of Phase II RFI/RI Work Plans from EPA and CDH.

Section 1.0 presents introductory information and a general characterization of the region and plant site, including geology and hydrology. Section 2.0 presents physical characteristics, existing data, including nature and extent of contamination, and conceptual models for the IHSSs. Section 3.0 presents applicable or relevant and appropriate requirements (ARARs). Section 4.0 establishes data needs and Data Quality Objectives (DQO). Section 5.0 outlines the tasks to be performed. Section 6.0 presents the schedule. The Field Sampling Plan (FSP) is presented in Section 7.0. The Baseline Risk Assessment Plan (BRAP) and Environmental Evaluation Plan (EEP) are presented in Sections 8.0 and 9.0, respectively. A Quality Assurance Addendum (QAA) and Standard Operating Procedure Addenda (SOPA) are in Sections 10.0 and 11.0. References are listed in Section 12.0.

Initial development of the OU 5 RFI/RI work plan included a review of the existing data. Such data include a germanium gamma radiation survey at the Original Landfill, sediment sampling in Woman Creek, ongoing surface water, groundwater, and sediment sampling programs, and Sitewide Ambient Air Monitoring Program.

Site specific data needs have been identified based on preliminary identification of contaminants potentially present at each IHSS and the data needs for the BRAP and EEP. The FSP for each IHSS requires a combination of screening activities: soil, sediment, surface water, and groundwater samples.

Data collected during the RFI/RI will be incorporated into the RFEDS database. These data will be used to define site characteristics, source characteristics, and the nature and extent of contamination to support the BRAP and EEP and to evaluate potential remedial alternatives.