ROCKY MOUNTAIN ARSENAL

Remedial Action Summary Report for Rocky Mountain Arsenal Commerce City, Colorado

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ACRONYMS AND ABBREVIATIONS

AMA Army-Maintained Area

ARER Aquatic Residual Ecological Risk
Army U.S. Department of the Army
BAS Biological Advisory Subcommittee

BBM Biota Barrier Material bcy Bank Cubic Yards BMP Biomonitoring Program

CBSG Colorado Basic Standard for Groundwater

CCR Construction Completion Report

CDPHE Colorado Department of Public Health and Environment

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFS Confined Flow System

COA Construction Quality Assurance

CSRG Containment System Remediation Goal

CSS Chemical Safety Submission
CSV Contingent Soil Volume
CWM Chemical Warfare Material
DCN Design Change Notice

DIMP diisopropylmethyl phosphonate DNAPL Dense Non Aqueous Phase Liquid

DWB Denver Water Board

ELF Enhanced Hazardous Waste Landfill EPA U.S. Environmental Protection Agency ESD Explanation of Significant Difference(s)

ESS Explosives Safety Submission FFA Federal Facility Agreement

FS Feasibility Study

ft Foot/Feet FY Fiscal Year

HWL Hazardous Waste Landfill ICS Integrated Cover System IP Implementation Project IRA Interim Response Action

LNAPL Light Non Aqueous Phase Liquid

LTCP Long-Term Care Plan

LTMP Long-Term Monitoring Plan for Groundwater and Surface Water

LUC Land Use Controls

MCR Monitoring Completion Report

MEC Munitions and Explosives of Concern

MPPEH Material Potentially Presenting an Explosive Hazard

NBCS North Boundary Containment System

NODp Notice of Partial Deletion

NOIDp Notice of Intent for Partial Deletion

NPL National Priorities List



| NWBCS | Northwest Boundar | y Containment System |
|-------|-------------------|----------------------|
|-------|-------------------|----------------------|

| O&F | Operational and Functional |
|-----|----------------------------|
| O&M | Operations and Maintenance |

OGITS Off-Post Groundwater Intercept and Treatment System

OU Operable Unit P1 Priority 1 P2 Priority 2

PMC Program Management Contractor

PMRMA Program Manager Rocky Mountain Arsenal

RASR Remedial Action Summary Report

RCRA Resource Conservation and Recovery Act
RCWM Recovered Chemical Warfare Materiel
RD/RA Remedial Design/Remedial Action

RDIS Remediation Design and Implementation Schedule
Refuge Rocky Mountain Arsenal National Wildlife Refuge
Refuge Act Rocky Mountain Arsenal National Wildlife Refuge Act

RER Residual Ecological Risk RI Remedial Investigation

RI/FS Remedial Investigation/Feasibility Study

RMA Rocky Mountain Arsenal ROD Record of Decision

RS/S Off-Post Remediation Scope and Schedule

RVO Remediation Venture Office

SACWSD South Adams County Water and Sanitation District

SAP Sampling and Analysis Plan

SAR Study Area Report
SEO State Engineer's Office
SFS Supplemental Field Study

Shell Oil Company

SQCSR Soil Quantity Calculation Summary Report SWAQMP Site-Wide Air Quality Monitoring Program SWOMP Site-Wide Odor Monitoring Program

TCHD Tri-County Health Department

TEU Technical Escort Unit

TRER Terrestrial Residual Ecological Risk

USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey
UXO Unexploded Ordnance
WBS Work Breakdown Structure

WRCP Well Retention and Closure Program



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1.0 Introduction

This Remedial Action Summary Report (RASR) was prepared to document completion of remedial action construction activities for the Rocky Mountain Arsenal (RMA) Federal Facility Site in Commerce City, Colorado. The RASR was prepared in accordance with the Remediation Design and Implementation Schedule (RDIS) (PMRMA 2010) and provides a summary and documentation of remedy and remedy support activities based on the Records of Decision (RODs) for both the On-Post Operable Unit (OU) (FWENC 1996a) and the Off-Post OU (HLA 1995).

The RASR provides (1) a summary of completion documentation for ROD requirements where the remedy is complete or remedy is in place, and (2) a summary of program or project activities for remedy support activities not covered by existing completion documents. For those elements of the ROD requirements that are under construction or are otherwise ongoing, the RASR provides a discussion of the remedy status and indicates the continuing operations and maintenance (O&M) requirements. The RASR will also be used as supporting documentation for development of the Preliminary Closeout Report and the Final Closeout Report.

The U.S. Army (Army) is the lead agency for remediation of RMA and is issuing this RASR pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendment and Reauthorization Act of 1986. For remedy support activities not included in previous completion documents, the summary provided herein was prepared consistent with the general guidelines from the U.S. Environmental Protection Agency (EPA) guidance document *Close Out Procedures for National Priorities List Sites* (EPA 2000).

Regulatory agency oversight is conducted by EPA, Colorado Department of Public Health and Environment (CDPHE), and Tri-County Health Department (TCHD). The TCHD oversees local public health and environmental issues in Adams, Arapahoe, and Douglas counties, Colorado.

1.1 RMA Site Location and Description

The RMA On-Post OU is a federally owned facility located in southern Adams County, Colorado, approximately 10 miles northeast of downtown Denver, directly north of the former Stapleton International Airport and west of Denver International Airport. The original extent of the On-Post OU included all of the property located within the fenced boundary of RMA, approximately 26.6 square miles. The Off-Post OU encompasses groundwater Containment System Remediation Goal (CSRG) exceedance areas that underlie approximately 2.4 square miles of area zoned rural, agricultural, commercial, residential, and industrial north and northwest of RMA. The Off-Post and On-Post OUs are depicted on Figure 1.1-1.

Surrounded by development, the On-Post OU provides a refuge for an abundant diversity of flora and fauna. For this reason, the site was designated as a future National Wildlife Refuge in the Rocky Mountain Arsenal National Wildlife Refuge Act (Refuge Act) of 1992 (Public Law 1992). The RMA Federal Facility Agreement (FFA) (EPA 1989) and the On-Post ROD restrict future land use and prohibit certain activities such as agriculture, use of on-post groundwater as a drinking source, and consumption of fish and game taken at RMA. Current and future land use of the Off-Post OU surface area has not been restricted; however, institutional controls identified in

the Off-Post ROD have been implemented to reduce the potential for exposure to groundwater exceeding remediation goals. In addition, the ROD requires a deed restriction for approximately 160 acres of surface area owned or previously owned by the Shell Oil Company (Shell), referred to as the Shell Property, that prohibits drilling new alluvial wells and use of shallow groundwater underlying the Shell Property for potable purposes until such groundwater no longer contains contamination in exceedance of groundwater remediation goals established in the Off-Post ROD. Site Background and Records of Decision

1.1.1 On-Post Operable Unit

The Army established RMA in 1942 to produce chemical warfare agents and incendiary munitions used in World War II. Following the war and through the early 1980s, the Army continued to use these facilities for manufacturing, storage, and demilitarization activities. Beginning in 1946, some RMA facilities were leased to private companies to manufacture industrial and agricultural chemicals. Shell, the principal lessee, manufactured primarily pesticides at RMA from 1952 to 1982. Throughout the operational period, solid and liquid wastes were disposed on site, resulting in contamination of structures, soil, surface water, and groundwater. Approximately 70 chemicals were the focus of the Remedial Investigation (RI) for the On-Post OU (Ebasco 1992). Of these, the principal contaminants are organochlorine pesticides, heavy metals, agent-degradation products and manufacturing by-products, and chlorinated and aromatic solvents.

The RI and subsequent investigations identified chemicals at more than 180 sites that included soil, ditches, stream and lakebed sediments, natural depressions and manmade basins, sewers, groundwater, surface water, biota, and structures. Unexploded ordnance (UXO) was identified at several locations. Contaminated areas identified in the RI included approximately 3,000 acres of soil, 15 groundwater plumes, and 798 structures. The most highly contaminated sites were located within or adjacent to the manufacturing areas or waste disposal areas in the central portion of the RMA.

Sites that posed potential immediate risks to human health and the environment were addressed through Interim Response Actions (IRAs) as discussed in Section 2. Following completion of the Integrated Endangerment Assessment/Risk Characterization and Remedial Investigation/ Feasibility Study (RI/FS), the On-Post ROD (FWENC 1996a) was prepared and approved on June 11, 1996. The overall remedy required by the 1996 ROD for the On-Post OU includes the following:

- Intercept and treat contaminated groundwater.
- Construct a Resource Conservation and Recovery Act (RCRA) and Toxic Substances
 Control Act-compliant Hazardous Waste Landfill (HWL) on-post.
- Demolish structures with no designated future use and dispose of the debris in either the new on-post HWL or the Basin A consolidation area, depending upon the degree of contamination.
- Address contaminated soil at RMA primarily through containment in the on-post HWL or under caps/covers or through treatment depending upon the type and degree of



contamination. Areas that have caps or covers require long-term maintenance and will be retained by the Army. These areas will not become part of the future wildlife refuge.

• Institutional controls which prohibit use of the property for residential or agricultural purposes, use of the groundwater or surface water as a source of potable water, consumption of fish or game taken at RMA, and provide access restrictions to capped or covered areas.

Specific components of the remedy for the On-Post OU are discussed in Section 3.

1.1.2 Off-Post Operable Unit

Groundwater contamination migrated off post prior to the implementation of groundwater pumpand-treat systems resulting in the need for the Off-Post OU. The Off-Post OU addresses groundwater contamination north and northwest of RMA and is defined by the RMA FFA as that portion of the Off-Post Study Area where hazardous substances, pollutants, or contaminants from RMA are found and are subject to remediation. The Off-Post ROD further defined the Off-Post OU as depicted on Figure 1.1-1. The location of the Off-Post Groundwater Intercept and Treatment System (OGITS) is also shown.

Contamination migrated to the Off-Post Study Area primarily by shallow groundwater and airborne pathways. Contaminant transport in shallow, or unconfined, groundwater has been controlled by construction of the boundary containment systems and improvements to these systems. Off-Post Study Area surface water was contaminated primarily by the natural interaction with off-post groundwater. Off-Post Study Area surface soil was contaminated by the deposition of airborne contaminants, non-RMA-related agricultural application of pesticides, and irrigation practices.

The risk assessment performed for the Off-Post OU indicated that only human exposure via contaminated groundwater needed to be addressed. As a result, an Off-Post ROD was prepared and approved on December 19, 1995 (HLA 1995). The Off-Post ROD identified the following remedial components for off-post groundwater:

- Operation (and improvement, if necessary) of the OGITS
- Continued operation (and improvement, if necessary) of the North Boundary
 Containment System (NBCS) and Northwest Boundary Containment System (NWBCS)
- Long-term groundwater and surface water monitoring
- Provision of alternative water supplies for domestic well owners in areas of the Off-Post OU with contaminated groundwater and implementation of institutional controls intended to prevent future use of contaminated groundwater

In addition, the Off-Post ROD identified approximately 160 acres of surface area owned by Shell for revegetation (specifically, tilling and seeding). As noted above, This area is referred to as the Shell Property and is included in the Off-Post OU. This property, purchased by Shell to facilitate treatment of groundwater off post, is located north of RMA as shown on Figure 1.1-1. Although contaminant concentrations indicated existing risk within EPA's acceptable risk range, the Army and Shell agreed to complete the revegetation as part of the remedy. Revegetation was completed

in April 1996. In September 2009, EPA completed a Ready for Reuse Determination for most of the Shell Property to document that the property is ready for use for any purpose allowed under local land use and zoning laws. The property remains subject to restrictions specified in the Off-Post ROD.

As part of the State of Colorado Natural Resource Damages settlement, 100 acres of the Shell Property was deeded to Commerce City for open space and to use as a stormwater retention area. A conservation easement has been placed on the property as part of the agreement, and the easement is held by Adams County. The conservation easement preserves the property's conservation values in perpetuity by prohibiting urban or agricultural development and opens the area for limited recreational use.

Specific components of the remedy for the Off-Post OU are discussed in Section 3.

1.2 Deletions from the National Priorities List

As components of the On-Post OU remedy have been completed, administrative jurisdiction has been transferred to the U.S. Fish and Wildlife Service (USFWS) or other parties purchasing the land, except for the property and facilities continuing to be used for response actions. As of September 2010, five partial deletions have occurred that include the Western Tier Parcel, Selected Perimeter Area, Surface Deletion Area, Internal Parcel, and Central and Eastern Surface Area. Deletion areas are shown on Figure 1.3-1. Combined, these five deletions have reduced the area remaining on the National Priorities List (NPL) On-Post OU to approximately 1.7 square miles. Groundwater has also been deleted in the eastern and southern perimeter areas of the RMA. However, groundwater underlying the central and northwestern portions of the site has not met remediation goals and remains on the NPL. Surface media in the Off-Post OU has also been deleted. The following sections summarize the partial deletions completed at RMA.

The portions of the On-Post OU transferred to other parties remain subject to the FFA restrictions prohibiting residential development, use of groundwater on the site as a source of potable water, hunting and fishing for consumptive use, and agricultural use. In addition, because the completed remedial actions result in contaminants remaining above levels that allow for unlimited use and unrestricted exposure, the site remains subject to the five-year review requirements to ensure protection of human health and the environment.

1.2.1 Western Tier Parcel

The Refuge Act stipulates that approximately 815 acres (subsequently more accurately defined as 917 acres) referred to as the Western Tier Parcel will be transferred to Commerce City for fair market value. The first step in the process was the partial deletion of the Western Tier Parcel from the NPL. In October 1998, a Notice of Intent for Partial Deletion (NOIDp) was published by EPA in the Federal Register to delete surface media and groundwater. Subsequently, the deletion was postponed to allow for additional soil sampling. During the soil sampling, a site reconnaissance was performed that identified eight areas requiring subsurface investigation. The investigation resulted in excavation of one of the eight areas. In addition, some members of the public expressed concern that RMA, and the Western Tier Parcel, might be contaminated with dioxins. To address this potential issue, EPA Region 8, working in cooperation with the State of Colorado and the RVO, completed a series of studies to characterize the levels of dioxins in on-



site and off-site soils, including the Western Tier Parcel. The results from the studies indicated that there is no specific source of dioxin release in the Western Tier Parcel, and that dioxins in surface soil at the Western Tier Parcel are not of human health concern (EPA 2001c).

Concurrently, RMA-wide evaluation of potential UXO and recovered chemical warfare materiel (RCWM) was being conducted in response to the discovery of chemical warfare agent-filled bomblets elsewhere at the RMA. This evaluation is discussed further in Section 5.11. These additional efforts resulted in the publication of a second NOIDp in September 2002. After public comment, the Notice of Partial Deletion (NODp) was published in January 2003. The ultimate sale of the property to Commerce City occurred in June 2004.

1.2.2 Selected Perimeter Area and Surface Deletion Area

The Refuge Act requires that, upon certification by EPA that all response actions at RMA have been completed (i.e., NPL deletions have been made), the Army will transfer administrative jurisdiction over the property to USFWS. The Army first proposed deletion of the perimeter area in 1999, but the effort was suspended because bomblets were discovered as discussed above. Once the site-wide evaluation of UXO and RCWM had been completed, perimeter deletion efforts resumed, resulting in two NOIDps (Selected Perimeter Area and Surface Deletion Area) being published in the Federal Register in July 2003 for a total of approximately 5,000 acres. The Selected Perimeter Area included surface media (i.e., soil and surface water), structures, and groundwater while the Surface Deletion Area included surface media only. The corresponding NODps were published in the Federal Register in January 2004. The Selected Perimeter Area and Surface Deletion Area were transferred to USFWS on March 2, 2004, and USFWS officially established the Rocky Mountain Arsenal National Wildlife Refuge (Refuge) in April 2004.

The Refuge Act specifies that 100-foot (ft)-wide strips inside the RMA boundary on the northwest, northern, and southern sides be transferred to local governments, at no cost, to allow improvement of public roads. The approximately 11 miles of 100-ft-wide strips amount to approximately 126 acres. This property was included in the Selected Perimeter Area deletion described above. Following that deletion, the property was transferred to Commerce City, City and County of Denver, and Colorado Department of Transportation in September 2004.

1.2.3 Internal Parcel

The NOIDp for the Internal Parcel at RMA was published in April 2006. Following public comment, the NODp for approximately 7,400 acres (11.5 square miles) was published in the Federal Register at the end of July 2006. The Internal Parcel deletion included surface media, structures, and groundwater in areas east of E Street (with the exception of a small area of contaminated groundwater located in the northwestern corner of Section 6) and surface media only for areas west of E Street. Most of the property was transferred to USFWS in September 2006 to expand the extent of the Refuge.

1.2.4 Central and Eastern Surface Area

Another NOIDp was published in June 2010 for the Central and Eastern Surface Area. This partial deletion included approximately 2,500 acres (3.9 square miles) of surface media and structures in the central and eastern areas of RMA. No groundwater was included in this partial deletion. Following public review and comment, the NODp was published in the Federal



Register on September 13, 2010. This property was then transferred to USFWS on September 30, 2010.

1.2.5 Off-Post OU Partial Deletion

One partial deletion has been completed for the Off-Post OU. The NOIDp published in June 2010 included all surface media in the Off-Post OU (including the Shell Property). Also, in September 2009, EPA completed a Ready for Reuse Determination for most of the Shell Property to document that the property is ready for use for any purpose allowed under local land use and zoning laws. Following public review and comment on the NOIDp, the NODp was published in the Federal Register on September 13, 2010. Groundwater in the off-post area has not met remediation goals and remains on the NPL.



2.0 Summary of Interim Response Actions

Beginning in 1975, early remedial actions and IRAs were implemented in the most highly contaminated sites to protect both on-post and off-post human health and environment. The IRAs were undertaken in advance of the ROD to stop the spread of, or eliminate, contamination and to begin the actual remediation. All IRAs that required the removal of material were carried out in accordance with applicable laws and regulations and were consistent with and contributed to the efficient performance of the selected alternatives for the On-Post and Off-Post OUs. Reports generated for the IRAs, including Site Investigation Reports, Technical Plans, Alternatives Assessment Reports, Decision Documents, Implementation Documents, Operational Reports, and IRA Summary Reports, can be accessed through the Joint Administrative Record Document Facility. IRA work not accomplished prior to the ROD, including continued operations, was incorporated into the ROD remedy, except in a few instances in which IRA work continued past the date of the ROD to completion (e.g., asbestos abatement).

Table 2.0-1 provides a summary of IRAs completed at RMA. A brief description of each IRA is provided along with references to the applicable IRA completion reports and the date of Regulatory Agency approval.

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3.0 ROD Requirements and Remedy Status

This section describes the remedy selected in both the On-Post and Off-Post RODs, administrative changes that have been made to the RODs, and summarizes completion documentation for each remedy component of the RODs.

Both the On-Post and Off-Post RODs included a requirement to provide a remediation schedule following issuance of the ROD. For the Off-Post ROD, the Remediation Scope and Schedule (RS/S) was completed in September 1996 (HLA 1996a) and describes activities to be performed to support implementation of the selected remedy specified in the Off-Post ROD. In December 1996, the Program Manager Rocky Mountain Arsenal (PMRMA) issued the RDIS to provide an implementation schedule for the On-Post ROD requirements (PMRMA 1996a). Major elements of the off-post remedy were incorporated into the RDIS to provide a single reference for an overall remedy schedule, as discussed in Section 4.0.

The selected remedy in the On-Post ROD was organized by medium group to allow sites or structures with similar contamination patterns or use history to be grouped together for remediation. However, to facilitate implementation, the soil and structure remedy components were reorganized into implementation projects (IPs) that represented a more efficient design/construction-oriented approach. The IPs were developed based on geographic proximity of ROD remedial actions and the logical execution of the work to be performed. The locations for areas included for each IP are shown on Figure 3.0-1. In addition, each water treatment system was included as a separate schedule project. Additional components of the selected remedy, such as monitoring or remedy support activities, were included as site-wide programs for both the On-Post and Off-Post OUs within the schedule structure.

The scheduled items are organized in six levels of detail defined by the work breakdown structure (WBS). The WBS allows efficient identification, summarizing, tracking, and reporting of groups, projects or types of activities for each stage of remediation. The schedule is structured at the following six WBS levels:

WBS Level 0 - RMA

WBS Level 1 - OU or Program Stage (Pre-ROD, Remedial Design/Remedial Action

[RD/RA] or O&M)

WBS Level 2 - Program Phase or Category

WBS Level 3 - Implementation Project

WBS Level 4 - Activity Type (e.g., design, construction)

WBS Level 5 - Project-Specific Activity

Each ROD requirement, including IPs, site-wide programs, water treatment systems and program management, has a unique WBS number at Level 3. Throughout the RASR, WBS Level 3 is included on summary tables to provide cross-reference between the text sections. Table 3.0-1 lists the WBS Level 3 elements. The WBS includes elements for long-term operations and maintenance (WBS 4 Level 1). For project or program elements with long-term operations requirements, cost and schedule tracking is transitioned from the remedy construction stage to the long-term stage to allow for separate tracking of long-term operations and maintenance.

Table 3.0-2 provides a detailed list of the On-Post ROD project/program requirements and completion documentation organized by the WBS Level 3. Table 3.0-2 is organized as follows:

- Column 1 WBS Level 3.
- Column 2 WBS Description. Lists the IP, site-wide program, water treatment system, or other program element. For soil IPs, the ROD Study Area Report (SAR) sites and other site designation are listed for each IP.
- Column 3 ROD Medium Group. Provides cross-reference to the ROD medium group. (The selected remedy in the ROD is provided by medium group.)
- Column 4 ROD Requirement. Lists the ROD requirement for the project or program. The requirements are provided as modified by existing ROD Amendments or Explanation of Significant Differences (ESD) applicable to the project.
- Column 5 ROD Change Documentation. Provides citations for ROD Amendments, ESDs or relevant Fact Sheets.
- Column 6 Completion Documentation. Provides citations for existing Construction Completion Reports (CCRs), Monitoring Completion Reports (MCRs), IRA Summary Reports or other completion documentation. Where completion documentation has not been previously prepared, a cross-reference is provided to the section of the RASR that summarizes the activities for that program element.
- Column 7 Long-term O&M requirement. Indicates whether this IP or program element has a long-term O&M requirement. (O&M requirements are discussed in Section 7.)

Table 3.0-2 provides a crosswalk from ROD requirements to documentation that each requirement has been completed or is addressed as an ongoing action. For projects or programs where completion documentation already exists, there is no additional discussion provided in the RASR and reference to the appropriate CCR or MCR is provided on the table. For projects where completion documentation has not been previously prepared, the RASR provides a summary of the project or program activities in Section 5. The Section 5 reference is provided on the table.

For projects with constructed cover systems, the CCR reference provided is a CCR - Part 1, which documents completion of physical construction of the covers. This includes the following cover systems:

- Former Basin F RCRA-Equivalent Cover
- Integrated Cover System RCRA-Equivalent Covers
 - o Basin A Consolidation Area
 - o Complex (Army) Trenches
 - Section 36 Lime Basins
 - o Shell Disposal Trenches
 - o South Plants Central Processing Area



Soil Covers

- South Plants Balance of Areas 3-foot cover
- Shell Trenches 2-foot cover

Following an evaluation of percolation control, soil loss due to erosion, establishment of vegetation on the covers, and the overall condition of the covers, a CCR - Part 2 will be prepared to document project completion and the Operational and Functional (O&F) status of the covers.

Table 3.0-3 provides a similar summary of remedy requirements and completion documentation for the Off-Post OU.

3.1 Soil Remediation

The ROD identified soil remediation volumes by medium group and the following soil classifications: human health exceedance soil, principal threat exceedance soil, biota risk soil, munitions debris and associated soil, and agent-contaminated soil. The ROD also identified sanitary landfill trash/debris volumes for the Existing Sanitary Landfill sites.

Although the ROD did not include a detailed breakdown of soil volumes for each remediation site, the ROD did require that the soil volume calculations be presented in another document to allow for independent confirmation that the required remediation volumes were removed. The *Soil Quantity Calculation Summary Report* (SQCSR) was completed in September 1996 to address this requirement (FWENC 1996c). The SQCSR includes detailed information related to remediation volumes identified in the ROD, both areal extent and depth, and provides soil remediation volumes for each site.

During remediation, soil volumes were calculated for each remediation area based on pre- and post-excavation surveys. Final remediation volumes are provided on a site-specific basis in each project CCR. For implementation, the principal threat soil volumes were combined with human health exceedance soil for volume tracking. Also during implementation, one soil classification was added for remediation volume tracking. Residual Ecological Risk (RER) soil was identified, as required by the ROD, based on refinement of surface soil areas requiring remediation. This soil is identified in various project documents and CCRs as Priority 1 (P1) soil, Priority 2 (P2) soil and Terrestrial Residual Ecological Risk (TRER) soil. For final volume tracking, these soils are all captured under the RER soil classification. Section 5.5 provides additional discussion on the identification of RER soils.

Table 3.1-1 provides a summary of soil remediation volumes for each IP and site, organized by WBS Level 3. The table includes ROD and actual volumes for human health exceedance soil, biota risk soil, munitions debris/soil and sanitary landfill trash/debris, and actual remediation volumes for RER soil (where no ROD volumes were specified). The table also provides a summary of contingent soil volumes removed at each site. Contingent soil volume is discussed further in Section 5.6.

3.2 Structures Remediation

The ROD identified three structures classifications for remediation; agent history, significant contamination history and other contamination history. These structures were remediated primarily under three IPs: South Plants Demolition, North Plants Demolition, and Miscellaneous RMA Structures Demolition. The CCRs for these projects include demolition lists for structures remediated by each project. In addition, several soil IPs performed structures demolition for structures located within the soil remediation project boundaries. Structures demolition is identified in each CCR as appropriate.

The ROD also identified a number of structures as having no contamination history and classified them as Future Use structures. However, because the long-term structure needs were not fully developed at that time, the ROD included a provision to revise the Future Use structure list during remedial design. As implementation progressed, the Future Use list was revised to reflect the long-term structure requirements.

Table 3.2-1 provides a listing of structures addressed through remedial design and implementation. The table includes the following information:

- Column 1 Structure ID.
- Column 2 RMA Section location for structure.
- Column 3 ROD Classification.
- Column 4 Use refinement. This column indicates any changes made to the ROD classification during remedial design or implementation.
- Column 5 Completion Documentation. Provides a citation for the CCR documenting demolition of the structure. In some cases, the foundation was removed separately and is documented in a different CCR. Also, some structures were determined to have been removed prior to implementation of the remedy. In these cases, the completion documentation reference provided is the design where the absence of the structure is noted.

Table 3.2-1 includes structures identified in the ROD as well as other structures not identified in the ROD that were added to the remediation scope during design or implementation. Several structures included in the ROD were actually demolished as part of an IRA prior to remedial design/remedial action. In these cases, the table includes a citation for the relevant IRA completion report. It should be noted that many other structures, particularly tanks, were demolished as part of IRAs. These structures are not listed on Table 3.2-1 since they were not included in the ROD structures listings.

Table 3.2-2 provides the final listing of Future Use structures with similar information provided. For Future Use structures, the completion documentation is a reference to the design where the Future Use classification was either confirmed or revised from the ROD.

3.3 Groundwater Remediation

The selected remedy in the On-Post ROD for groundwater includes as a primary component continued operation of the boundary treatment systems (NBCS, NWBCS, Irondale Containment System) and on-post treatment systems (Basin A Neck System, Rail Yard Extraction System, Motor Pool Extraction System). Other remedy components include installation of the Bedrock Ridge Extraction System, installation of the ultraviolet system for n-nitrosodimethylamine treatment at the NBCS, closure of confined flow system monitoring wells, south lakes plume management, and long-term groundwater monitoring. The Off-Post ROD specified continued operation of the OGITS for treatment of groundwater contamination located in the off-post OU and closure of wells that might represent pathways of migration for contaminants between aquifers. The Off-Post ROD also specified institutional controls intended to prevent future use of contaminated groundwater.

Groundwater remediation was tracked under WBS 2.08, Water Treatment/Monitoring for onpost activities and WBS 3.11 for off-post activities. Each treatment system or remedy component is identified as a separate project element or WBS. In addition, the Section 36 Bedrock Ridge Extraction System construction was identified as an implementation project and is included as WBS element 2.03.15. Site-wide monitoring, including confined flow system monitoring, were tracked under WBS 2.07, Site-Wide Programs.

Groundwater remediation elements are listed in Tables 3.0-2 and 3.0-3 with citations provided for the relevant CCRs where remedial actions are complete. Completed elements include Irondale Containment System, North of Basin F Well, Confined Flow System (CFS) Well Closure and Off-Post Well Closure. In addition, remedial actions including shut-off monitoring at the Motor Pool System are complete, although approval of the CCR (URS 2011a) is pending finalization of the post-shut-off monitoring Sampling and Analysis Plan (SAP).

During remedial design/remedial action, several new groundwater-related remedial actions were added to the remedy scope and the WBS was modified to incorporate them. The Groundwater Mass Removal Project was incorporated to provide contaminant reduction in the South Tank Farm Plume and Lime Basins contaminant source areas (TtEC 2006e). Although mass removal is complete, finalization of the CCR is pending resolution of issues associated with long-term groundwater monitoring for the South Tank Farm Plume. Two additional requirements, North Plants Light Non Aqueous Phase Liquid (LNAPL) Recovery and Lime Basins Dense Non Aqueous Phase Liquid (DNAPL) Remediation, have not been completed and are discussed in Sections 5.17 and 5.18 respectively.

As indicated on Tables 3.0-2 and 3.0-3, long-term O&M is ongoing for RMA treatment systems and will continue until shut-off criteria are met. The Long-Term Monitoring Plan for Groundwater and Surface Water (LTMP) (TtEC and URS 2010c) describes the specific monitoring objectives and monitoring networks for the site-wide plume monitoring. The LTMP documents revised shut-off criteria that rely on the consultative process and no longer include the hydraulic purposes criterion or the monitoring of extraction well criterion. An ESD is under preparation to document the revised criteria as changes to the RODs. Long-term O&M requirements are discussed in Section 7.0. Treatment system CCRs will be developed as groundwater reaches remediation goals and systems are shut down.

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4.0 Schedule Summary

Both the On-Post and Off-Post RODs included a requirement to provide a remediation schedule following approval of each ROD. Specifically, the Off-Post ROD included the following regarding the requirements for ongoing groundwater and surface water monitoring:

The Army will present the scope of these ongoing monitoring programs in an Implementation Plan to be submitted within 90 days following issuance of the ROD.

The PMRMA issued the RS/S for the Off-Post OU in September 1996 to satisfy this requirement (HLA 1996a). The RS/S includes a summary of activities to be performed to support implementation of the selected remedy specified in the Off-Post ROD. The RS/S describes data collection and reporting requirements for operations and monitoring activities and presents methods that may be used to evaluate operations and monitoring data with respect to the cleanup goals established in the ROD.

Similarly, the On-Post ROD included an implementation schedule requirement:

Within 180 days after issuance of the Notice of Availability for the ROD, the Army will append to the ROD a complete, detailed schedule for completion of activities associated with the selected remedy. The schedule will identify the enforceable project milestone dates for design activities. Future design documents will detail milestone dates for implementation activities. Revisions to this schedule will be initiated prior to the start of each fiscal year to allow adequate time for review and concurrence by the Parties (i.e., RVO and Regulatory Agencies).

The RDIS was initially completed and submitted on December 9, 1996, meeting this ROD requirement. Following resolution of disputes related to enforceable milestones, the RDIS was amended to establish enforceable dates for issuance of Draft Design Scope of Work documents for remedial implementation projects, and to establish target dates and/or enforceable deadlines for Draft Final Designs. The amended RDIS complied with the requirements to append a design schedule to the ROD and to establish a process to modify the design schedule. As designs were completed, the RDIS was updated to include and track the implementation milestones. Annual updates were provided as addenda to the RDIS, starting with Fiscal Year (FY) 1998, through FY 2011.

The RDIS provided a comprehensive view of the overall remediation program and its status to the Regulatory Agencies and the public. Reporting capabilities range from summary level program overviews to detailed activity listings. The schedule was developed from the implementation group structure using Primavera Project Planner. The schedule incorporated the implementation project descriptions as described in Appendix B of the RDIS to provide a framework for planning the total remedy implementation. All elements with ROD requirements were included in the RDIS. Elements of the Off-Post remedy were also included.

The RDIS provided background information concerning the ROD and the major components of the selected remedy, the assumptions on which the design schedule was based, and the status of the fourteen IRAs. It also established a general process by which design documents were developed, including deliverable milestones for design documents. RA implementation activities and reporting and closeout documentation requirements are described, along with schedule development, components, and the process by which the design schedule was modified. In the RDIS, Appendix A provides a detailed description of the 14 IRAs, and Appendix B provides a description of implementation projects, site-wide programs, water treatment and monitoring, program management, and off-post remedy. The annual schedule updates were added as Appendices C through P.

Annual updates included a revised detailed remediation schedule as well as updated project descriptions and enforceable milestones. The last RDIS update was issued in November 2010 and included the updated remediation schedule for FY 2011 (PMRMA 2010). The final remediation schedule, depicting remediation completed through August 2011, is attached to the RASR as Appendix A. Table 4.0-1 provides a summary of remediation start and finish dates for each remediation element (at WBS Level 3). The table includes the actual dates for completed remediation activities and forecast dates for activities that are ongoing as of issuance of the RASR. It should be noted that activities with long-term O&M requirements are shown as complete. In these cases, the completion date represents the close of cost and schedule tracking under the Remedial Design/Remedial Action stage (WBS 2, On-Post OU and WBS 3, Off-Post OU). Long-term activities will be tracked under the long-term O&M stage (WBS 4). The WBS 4 schedule elements are also shown on Table 4.0-1.

5.0 Site-Wide Program Completion Summary

The following sections provide completion documentation for RMA site-wide programs and remedy support activities. Descriptions are included for ongoing activities and completed activities that have no previously issued CCRs or MCRs. A brief discussion of the scope of the program, description of activities, status if activities are ongoing, and schedule milestones are provided below, as is a comparison of actual costs to the original baseline estimate.

The baseline estimate represents original ROD cost estimates reorganized to reflect implementation project and site-wide program descriptions in the RDIS. All ROD costs were assigned to an appropriate WBS creating a baseline cost estimate for remedy implementation. Baseline estimates were also provided for some support programs where there were no specific ROD estimates (e.g., biomonitoring).

Remediation costs have been tracked according to the WBS organization defined in the RDIS. All remediation and remediation support costs are assigned to an appropriate WBS to allow for cost tracking by project or program. Costs provided in the RASR are Estimates at Completion and are based on costs through July 29, 2011. For completed projects, the Estimate at Completion represents the actual project cost. For ongoing projects, the estimate at completion represents costs projected through the forecast finish date provided on Table 4.0-1. These costs include Remediation Venture Office (RVO) costs, Program Management Contractor (PMC) and PMC subcontractor costs, and other Army performer costs. Costs for long-term O&M are not included and will be tracked under separate WBS (WBS 4 as shown on Table 3.0-1).

5.1 RCRA-Equivalent Cover Demonstration Project (2.07.34)

5.1.1 Scope

The selected soil remedy in the On-Post ROD requires the construction of RCRA-equivalent covers in the Basin A, Complex (Army) Trenches, Lime Basins, Shell Disposal Trenches, South Plants Central Processing Area, and Basin F Project areas. The RCRA-Equivalent Cover Demonstration Project assessed alternate cover designs as compared to the typical RCRA Subtitle C cover designs recommended by EPA guidance. The focus of the effort was to develop alternate designs that were cost-effective and relied primarily on the natural materials in the vegetative cover and evapotranspiration to limit deep percolation and to demonstrate their RCRA-equivalence. The demonstration project consisted of a ROD-required comparative analysis and a field demonstration. Subsequent assessments and studies were then conducted as pre-design tasks for full-scale cover projects to incorporate the successful alternate design and lessons learned into the IP designs.

5.1.2 Description of Activities

Initial project activities involved hydrologic modeling to evaluate whether alternate designs could limit deep percolation based on theoretical considerations. Modeling results indicated that RCRA equivalence could likely be achieved for alternate designs. Beginning in March 1998, four test covers were constructed in accordance with the RCRA-Equivalent Cover Demonstration Project Final Design Package (MKC 1998c) and the Comparative Analysis and Field Demonstration Design Scope of Work (RVO 1998e). The Comparative Analysis and Field Demonstration Design Scope of Work was first issued in December 1997 with requirements for

the field demonstration. The document was then reissued in July 1998 to incorporate revisions documented in the Agreement Summary on Comparative Analysis and Field Demonstration Design Scope of Work for the Rocky Mountain Arsenal RCRA-Equivalent Cover Demonstration Project (RVO 1998d). The Agreement Summary identified design elements and requirements to be addressed in full-scale cover designs.

A final project inspection was completed following construction and three growing seasons for vegetation establishment. Results of the final inspection indicated that all four test covers were successful in meeting performance criteria and passing the field test. After the field demonstration test year, September 2000 through August 2001, the RVO issued the Draft Rocky Mountain Arsenal RCRA-Equivalent Cover Demonstration Project - Final Project Report (WGI 2001). The test covers were monitored quarterly through FY04. They continued to perform successfully and provided information to support full scale cover construction. A formal cover inspection for the 2004 operating year was conducted on August 31, 2004.

Work began in September 2008 to remove the test covers. Work crews removed all surface equipment and features (e.g., fence, storage tanks, irrigation system, etc.) as well as subsurface equipment (e.g., manholes, irrigation valve boxes), except for the lysimeter materials, which remain buried. Test cover removal was completed in December 2008. A final project report is being prepared to document completion of the demonstration project and removal and close out of the test covers.

Following the completion of the field demonstration, the working group met to evaluate the Demonstration Project and establish design criteria for the full-scale RCRA-equivalent cover implementation projects. While an Agreement (RVO 1998d) had been established prior to the field demonstration to guide the transition from the demonstration project to the full-scale design, the Regulatory Agencies requested an assessment of the test cover soils used in the field demonstration and further evaluation of soil characteristics or properties that would help ensure that the cover soil material and placement specifications would result in acceptable cover performance.

Table 5.1.2-1 summarizes the significant milestones for the RCRA-Equivalent Cover Demonstration Project.

Table 5.1.2-1 RCRA-Equivalent Cover Demonstration Project Milestones

| Activity | Date |
|---|-------------------|
| Demonstration Project design process completion | January 1998 |
| Test covers construction completion | September 1998 |
| Test covers final project inspection | September 4, 2001 |
| Test covers removal | December 2008 |
| Final project report | Forecast October |
| | 2011 |

5.1.3 Cost Summary

The original baseline remediation cost estimate for this project was \$1,254,200. The Estimate at Completion for this project is \$1,677,961, representing an increase of approximately 34.4 percent from the baseline estimate. These costs represent RVO costs for planning and implementation of the cover demonstration as well as documentation of demonstration results and close out.

5.2 Borrow Areas (2.07.35)

5.2.1 Scope

The selected soil remedy in the On-Post ROD requires approximately 12 million cubic yards of borrow materials to backfill excavations, build structural fills, establish cover grades, and construct liner and cover components. The materials in the borrow areas were managed carefully to ensure each IP had access to the quality and volume of borrow materials required for remediation. As part of the project, remediation of P1 and TRER soils was also tracked.

5.2.2 Description of Activities

The original Borrow Area Plan (FWENC 1998a) identified those areas within the RMA boundary where borrow operations would be appropriate, estimated the material types available at the sources, estimated the sizes of areas impacted by borrow excavations, allocated and managed borrow area operations, provided operation alternatives, and identified operational issues.

The selected soil remedy in the On-Post ROD also requires continued biomonitoring to identify areas where soil contamination levels are below human health concerns but may pose potential risk to biota so that design boundaries for surficial soil and aquatic contamination areas could be refined. To support this requirement, the Biological Advisory Subcommittee (BAS) conducted evaluations of potential biota risk and identified areas with residual risk to biota. The BAS also coordinated with borrow area planning to focus borrow area selection to include areas where residual risk soils were identified in order to maximize overall risk reduction. The initial assessment classified the residual risk soil areas as containing either P1 (i.e., soils that should be given first priority for use as borrow) or P2 soils (PMRMA 1997). These soils are located within the upper 1 foot (ft) of the soil profile in these areas. Subsequent evaluations, including further evaluation of P2 areas, resulted in additional potential risk areas classified as TRER soils, which were identified for remediation either by removal or through tilling in place (PMRMA 2003). The P1 and TRER borrow soils were not used as top soil or liner soil, nor were they placed within the upper 2 ft of backfilled excavations or cap/cover systems.

The Borrow Area Project tracked and coordinated IP use of borrow areas, reviewed interim and final grading plans for conformance with the USFWS refuge objectives, and tracked remediation of P1 and TRER soils. Since 1998, when the original Borrow Area Plan (FWENC 1998a) was developed, annual updates to this plan (TtEC 2010g, 2009k, 2008q, 2007d, 2005e; TtFW 2004i; FWENC 2003c, 2002e, 2001f, 2000l, 1999e) were prepared, except in 2006, when the RER CCR Part 1 (TtEC 2006f) was prepared in lieu of the annual update. These documents served as planning and documentation tools for the management of BAs and as a tracking tool for Priority 1 and TRER soils and contained summaries of previous years' borrow area operations, as well as those planned for the upcoming year. The final update was issued in August 2010 at the

conclusion of on-site borrow activities (TtEC 2010g). Included in the final update is a complete set of as-built drawings for each borrow area showing final grades and vegetation status.

Each IP that included requirements for borrow materials planned activities at a given borrow area, and final grading of the borrow area was performed by the last IP active in a given borrow area. These activities and the final grades of borrow area surfaces are documented in CCRs for the various IPs that utilized the borrow areas. For borrow material volume used from each borrow area, by IP, see Table 5.2.2-1. The locations of the borrow areas are shown on Figure 5.2.2-1.

Remediation of P1 and TRER soil areas was performed by various IPs. Typically, IPs addressed areas within or adjacent to the project area or borrow areas used by the project. Remedy activities for P1 and TRER areas are documented in CCRs for the various IPs that performed the work. In addition, two CCRs were completed to document completion of all RER soil remediation activities, including soil removal, tilling, and sampling. The Part 1 CCR was completed in 2006 (TtEC 2006f) and the Part 2 CCR was completed in 2009 (TtEC 2009h).

Table 5.2.2-2 presents significant milestones for the Borrow Areas Program.

Table 5.2.2-2 Borrow Areas Program Milestones

| Activity | Date |
|--|---------------|
| Borrow Areas Plan, 100 percent report issued | October 1998 |
| RER Soil Remediation CCR | March 2006 |
| RER Soil Remediation Part 2 CCR | June 2009 |
| Completion of borrow activities | February 2010 |
| Completion of borrow area final grading | May 2010 |

5.2.3 Cost Summary

The original baseline remediation cost estimate for this project was \$36,581,391. However, the baseline estimate projected costs for this program to include physical management of the borrow areas including excavation and hauling of borrow soil. During implementation, the actual borrow activities and costs were assigned to each implementing project. Costs tracked for the site-wide program element include RVO and PMC costs for the initial borrow areas design, preparation of annual updates, borrow activity coordination and preparation of the RER CCRs. The Estimate at Completion for this project is \$2,043,907.

5.3 Structural Agent Treatment Facility (2.07.36)

The selected structures remedy in the On-Post ROD requires that all Agent History Structures be monitored for the presence of Army chemical agents during dismantling operations and that building debris determined to contain agent be treated by caustic washing, as necessary, prior to disposal. No site-wide treatment facility was constructed. However, a North Plants-specific agent treatment facility was constructed for the decontamination of 11 pieces of GB Fill equipment, which is documented in the North Plants Structure Demolition and Removal Remediation Project and Destruction of Equipment in the GB Production and Fill Facilities Project, Construction Completion Report (TtFW 2004f).

5.4 Soil Agent Treatment Facility (2.07.37)

The selected soil remedy in the On-Post ROD requires that soil within potential agent areas be monitored for the presence of Army chemical agents during excavation and that soils determined to contain agent be treated by caustic washing, as necessary, prior to disposal. During remedy implementation, no soils were determined to contain chemical agents; therefore, construction of treatment facilities was not required.

5.5 Site-Wide Biota Monitoring (2.07.38)

5.5.1 Scope

Biomonitoring is included in the On-Post ROD as an additional component of the remedy and also as a long-term operations requirement. As part of the remedy continued biomonitoring was identified to refine design boundaries for surficial soil and aquatic contamination areas. The BAS was established and tasked with continuing the USFWS biomonitoring program and completing the Supplemental Field Study (SFS)/risk assessment process to be used in recommending refinements to remediation boundaries. The BAS also served as a technical resource during remediation to analyze and collect data sufficient to support design refinements. For long-term operations, the ROD states that "monitoring activities for biota will continue by USFWS in support of evaluating the effectiveness of the selected remedy."

5.5.2 Description of Activities

As required by the On-Post ROD, the BAS was tasked with determining a level of acceptable risk to biota remaining after implementation of the ROD-identified remedial activities. To better assess residual risk, the BAS used results of the SFS Phase 1 (FWENC 1996b) to narrow its focus. The SFS indicated that while risks to mammals were overestimated in the Integrated Endangerment Assessment/Risk Characterization (Ebasco 1994) risks to small birds were underestimated. Small birds are the most sensitive ecological receptor at RMA and were used as the indicator species to ensure that all other terrestrial receptors would be adequately protected. The SFS results also indicated that approximately 90 percent of the risk to the small bird receptor was caused by exposure to combined aldrin and dieldrin, termed todrin (total for "aldrin and dieldrin"). Accordingly, the risk assessment efforts were focused on the small bird exposure to todrin.

An initial assessment of risk to small birds, completed in early 1997, used an adjusted biomagnification factor 7.5 times higher than that used for the ROD, based on SFS results, and identified two classes of soil sites that exhibited generally higher and lower risks. The BAS ranked the higher risk sites P1 soil and the lower risk sites P2 soil. These sites were defined using aldrin, dieldrin and arsenic soil concentration data; interpolated grids of estimated soil concentrations for todrin; and todrin beetle tissue data from the SFS. Residual risk soils were determined from a conservative model that uses both measured and modeled concentrations of todrin to identify sites of potential residual risk to small birds.

The BAS review of potential residual risk soil indicated that excavating limited areas of higher risk soils (identified as P1 soil) would effectively eliminate risk posed by contaminated surface soils adjacent to the core remedy areas. In addition, the BAS, working in coordination with the RVO borrow are planning team, recognized that potential risk in P1 soil areas could be most

effectively addressed if the P1 soil areas coincided with planned borrow areas, and refined the borrow areas to incorporate P1 soils as much as practicable. This initial effort concluded with a BAS recommendation to the RMA Committee that the higher risk, or P1 soil sites, should have priority for surface soil (0 to 1 foot) removal in order to maximize risk reduction for biota. The RMA Committee accepted the BAS recommendations to refine the IPs and borrow sites to include P1 soils and subsequently documented this minor ROD change in an agreement finalized in May 1997 (PMRMA 1997) detailing the design refinements for surficial soil removal and related risk reduction. This agreement outlines the remedy requirements for the identified P1 soil sites (approximately 997 acres) and provides detailed requirements for use of the majority of this soil as borrow soil.

Following initial identification of P1 and P2 soils and incorporation of P1 soil removal in the remedy, the BAS continued to evaluate potential residual risks to biota to complete the ROD requirements for residual risk evaluation. The continued evaluation included P2 soil sites and limited exempted soil sites under the 1997 RMA Committee Agreement. Ultimately, "P2 soils" nomenclature was subsumed under the title, TRER. The terrestrial portion of the risk assessment was issued by the BAS in April 2002 (BAS 2002) and an addendum to the report was issued in April 2003 (BAS 2003a). The TRER report summarizes the results of the study and identifies sites and amounts of potential residual risk, identifies options for reducing those residual risks and identifies sites that are candidates for possible future monitoring. The TRER report provided the basis for the BAS recommendations to the RMA Committee to complete the ROD requirement for residual risk remedy.

In 2003, the RMA Committee reached concurrence on an agreement regarding the remediation of RER soils identified in the TRER report (PMRMA 2003). The 2003 Committee Agreement adopted the BAS recommendations for removal or tilling of 42 TRER sites. Twenty-four of the sites are located primarily in or adjacent to borrow areas. For these sites, removal was the preferred remedial approach. However, if the soil was not removed, soil tilling was substituted to reduce risk to acceptable levels. The tilling method approved by the BAS consists of 3 steps: (1) ripping to 18 inches, (2) plowing to 12 inches, and (3) discing to 6 inches. The remaining 18 sites are outside borrow areas and the Agreement states that the three-step tilling process is the preferred approach to reduce risk to acceptable levels. The original TRER boundaries defined by the BAS are included in the 2003 Committee Agreement.

In 2003, the BAS completed an assessment of aquatic risks for Lake Mary, Lake Ladora, and Lower Derby Lake (South Lakes) to determine whether there was a need for further aquatic remediation. The analysis of residual risks included both refinement of risk assessment inputs previously used in the Integrated Endangerment Assessment/Risk Characterization (Ebasco 1994) as well as consideration of supplemental information developed since the completion of the Integrated Endangerment Assessment/Risk Characterization, including USFWS biomonitoring data. The overall conclusion of the Aquatic Residual Ecological Risk Assessment (ARER), based on the refined risk assessment as well as additional supporting information, is that there are no significant risks to aquatic birds in the South Lakes that require additional remediation beyond that already defined in the On-Post ROD (BAS 2003b).



Together the TRER and ARER satisfied the ROD requirements for biomonitoring as part of design refinement. Completion of remediation of RER soils is documented in two CCRs as discussed in Section 5.2 (TtEC 2009h, 2006f).

The selected remedy in the ROD also states that water levels in Lake Ladora, Lake Mary, and Lower Derby Lake will be maintained to support aquatic ecosystems and that the biological health of the ecosystems will continue to be monitored. The Management Plan for Protection and Monitoring of Lake Ladora, Lake Mary, and Lower Derby Lake during RMA Remediation (PMRMA 2006b) describes how the lake levels will be monitored. The plan outlines requirements for maintenance of lake levels (water quantity) and surface water quality and ecological monitoring that are applicable until completion of the surface remedy, defined as EPA approval of the last cap or cover CCR, which occurred in August 2011.

To address the long-term biomonitoring requirements in the ROD, the BAS developed the Long-Term Contaminant Biomonitoring Program for Terrestrial Ecological Receptors at Rocky Mountain Arsenal (BMP) (BAS 2006). The purpose of the BMP is to help evaluate the efficacy of the remedy in accordance with the ROD requirement that "monitoring activities for biota will continue by USFWS in support of evaluating the effectiveness of the selected remedy."

Biomonitoring under the BMP started in 2007 and is ongoing. Discussions of the monitoring activities and results for the first three years of monitoring are presented in the Rocky Mountain Arsenal 2007 and 2008 Annual Biomonitoring Report (USFWS 2010b) and Rocky Mountain Arsenal 2009 Annual Biomonitoring Report (USFWS 2010a).

Continued biomonitoring is included as part of the long-term remedy requirements as discussed in Section 7. An MCR for the Site-Wide Biota Monitoring Program will be prepared to document and evaluate monitoring results.

Table 5.5.2-1 presents significant milestones for the Site-Wide Biomonitoring Program.

Table 5.5.2-1 Site-Wide Biomonitoring Program Milestones

| Activity | Date |
|--|---------------|
| Supplemental Field Study Phase I | July 1996 |
| Design refinement of remediation boundaries | May 1997 |
| Dioxin/Furan Study | June 2001 |
| Assessment of Residual Ecological Risk and Risk Management | April 2002 |
| Recommendations Part 1: Terrestrial Pathways and Receptors | |
| RER Addendum A-1 | April 2003 |
| Assessment of Residual Ecological Risk and Risk Management | July 2003 |
| Recommendations Part 2: Aquatic Pathways and Receptors | |
| RER Soil Remediation Part 1 CCR | March 2006 |
| Long-Term Contaminant Biomonitoring Plan | November 2006 |
| RER Soil Remediation Part 2 CCR | June 2009 |
| 2007 and 2008 Annual Biomonitoring Report | February 2010 |
| 2009 Annual Biomonitoring Report | October 2010 |

5.5.3 Cost Summary

The original baseline remediation cost estimate for this project was \$4,642,116. The Estimate at Completion for this project is \$1,123,983, representing a decrease of approximately 76 percent from the baseline estimate.

5.6 Contingent Soil Volume (2.07.40)

5.6.1 Description of Activities

The selected soil remedy in the On-Post ROD identifies Contingent Volume and Confirmatory Samples as part of soil remediation requirements. Contingent Soil Volume (CSV) is defined as all soil excavated in excess of design or actual volume that is located outside the ROD human health boundary as identified in the SQCSR. The ROD included provision for up to 150,000 bank cubic yards (bcy) of CSV that was identified during implementation based on visual or other evidence discovered in the field (e.g., material exhibiting high odor or emissions levels). This soil was only removed at the written direction of the RVO and Regulatory Agencies and only up to a maximum quantity not to exceed 150,000 bcy, an amount that was not a project-specific limit, but a site-wide upper limit on CSV excavation and disposal. The Parties could, as an option, refine CSV boundaries using confirmatory soil samples. All CSV was transported to either the HWL/Enhanced Hazardous Waste Landfill (ELF) for disposal or Basin A for consolidation beneath the RCRA-equivalent cover.

The ROD allowed for up to 1,000 confirmatory soil samples to be used, at the written direction of the RVO and Regulatory Agencies, to identify the CSV requiring excavation. Fourteen additional samples were also identified between the North Plants, Toxic Storage Yard, Lake Sediments, Sand Creek Lateral, and/or Burial Trenches IPs. The site-wide combined total number of confirmatory soil samples available was 1,014. Confirmatory soil samples were taken as needed or indicated by field conditions outside the design boundary. If sample locations were outside the design boundary, but also inside the original ROD boundary, then samples that indicated contamination were not considered part of the 1,014 confirmatory soil samples.

Individual IPs excavated and disposed CSV and collected and analyzed confirmatory soil samples in accordance with the Contingent Soil Volume Procedure (RVO 2007a) and the RMA CSV Sampling an Analysis Plan (RVO 2007b). The CCRs prepared for individual IPs that involved CSV and confirmatory soil samples document volumes of CSV excavated, disposal location, and the number of confirmatory soil samples taken.

In accordance with the procedure, a tracking log was maintained to record confirmatory soil samples collected and CSV excavated for all projects. Copies of this log were made available on a monthly basis to the RMA Committee. Table 5.6.1-1 provides a summary of confirmatory soil samples associated with each IP. The volume of CSV removed for each project is included on Table 3.1-1.

Table 5.6.1-1 Confirmatory Soil Samples Collected by Project

| WBS | Project | Number of Confirmatory Samples |
|---------|---|-----------------------------------|
| 2.01.01 | Hazardous Waste Landfill | 2 |
| 2.01.01 | Landfill Wastewater Treatment System Outfall | 2 |
| 2.01.02 | Enhanced Hazardous Waste Landfill | 3 |
| 2.01.03 | Basin A Consolidation and Remediation | 3 |
| 2.03.08 | Toxic Storage Yards Soil Remediation | 16 |
| 2.03.09 | Existing (Sanitary) Landfills Remediation | 27 |
| 2.03.10 | Lake Sediments Remediation | 12 |
| 2.03.11 | Burial Trenches Soil Remediation | 24 |
| 2.03.12 | Munitions (Testing) Soil Remediation | 19 |
| 2.03.13 | Miscellaneous Northern Tier Soil Remediation | 31 |
| 2.03.14 | Miscellaneous Southern Tier Soil Remediation | 114 |
| 2.03.17 | Miscellaneous RMA Structure Demolition | 28 |
| 2.04.18 | Buried M-1 Pits Soil Remediation | 9 |
| 2.04.20 | South Plants Central Processing Area Soil Remediation | 84 |
| 2.04.21 | South Plants Balance of Areas Soil Remediation | 250 |
| 2.05.23 | Section 36 Balance of Areas Soil Remediation | 134 |
| 2.05.24 | Secondary Basins Soil Remediation | 47 |
| 2.05.25 | Complex (Army) Disposal Trenches Rem. | 3 |
| 2.05.27 | North Plants Soil Remediation | 5 |
| 2.05.28 | Section 35 Soil Remediation | 46 |
| 2.05.29 | North Plants Structure Demolition and Removal | 38 |
| 2.06.30 | Basin F Wastepile Remediation | 16 |
| 2.06.31 | Basin F Principal Threat Soil | 2 |
| 2.06.32 | Basin F and Basin F Exterior Remediation | 81 |
| 2.07.63 | Haul Roads | 13 |
| | Total Confirmatory Samples Collected | 1,009 |

5.6.2 Cost Summary

The original baseline remediation cost estimate for the CSV program was \$4,445,372. However, confirmatory soil sample and CSV excavation costs were captured within each IP as appropriate. Therefore, there were no costs tracked to this WBS element.

5.7 Site-Wide Plume Monitoring (2.07.41)

5.7.1 Scope

The site-wide groundwater monitoring programs in the RDIS site-wide plume monitoring category were developed to meet the monitoring requirements identified in the On-Post and Off-Post RODs (FWENC 1996a, HLA 1995). The specific monitoring objectives and monitoring networks for the site-wide plume monitoring were first specified in the 1999 LTMP for Groundwater (FWENC 1999a) and updated in the 2010 LTMP for Groundwater and Surface

Water (TtEC and URS 2010c). Site-wide plume monitoring has been conducted by the PMC and U.S. Geological Survey (USGS) and includes the following current monitoring categories as defined in the LTMP:

- Water Level Tracking (ROD requirement) On-post water level monitoring used to track the effects of the soil remedy on groundwater in the On-Post OU.
- Water Quality Tracking (ROD requirement) On-post water quality monitoring of indicator analytes is conducted to track contaminant migration in and downgradient of source areas within the identified plumes.
- Confined Flow System (CFS) Monitoring (ROD requirement) Water quality monitoring required by the On-Post ROD in three confined aquifer areas Basin A, South Plants, and Basin F.
- Off-Post Exceedance Monitoring (ROD requirement) Long-term water quality
 monitoring of off-post groundwater to assess contaminant concentration reduction and
 remedy performance and to create groundwater CSRG exceedance area maps to support
 well permit institutional controls.
- Surface Water Quality Monitoring (ROD requirement) Off-post and on-post surface water monitoring to assess changes in surface water quality related to the RMA remedy.
- Surface Water Management (remedy support) Conducted in support of the soil remedy
 and involves management of water use for remedy support and irrigation. This task
 included collection of stream flow and stage data at gauging stations, seasonal wetlands,
 lakes, and ponds as well as water quality monitoring for protection of the aquatic
 ecosystems and review and reporting of hydrologic conditions.
- South Lakes Plume Monitoring (ROD requirement) Monitoring to determine whether groundwater contaminants were migrating into the South Lakes.

5.7.2 Description of Activities

Following the signing of the On-Post ROD, the monitoring programs from the RI/FS phase of the project continued until the January 2000 approval of the Final LTMP, which was issued in December 1999 (FWENC 1999a). The 1999 monitoring program was in place until April 2010 when the 2010 LTMP (TtEC and URS 2010c) was approved. Changes to the LTMP monitoring programs during the period between the two LTMPs were documented in annual well networks updates in accordance with the *Rocky Mountain Arsenal 2003 Well Retention and Closure Program* (FWENC 2003b).

The 2010 LTMP was approved by the Regulatory Agencies on April 28, 2010 and went into effect immediately. The revised LTMP also documents the completion of the ROD-required onpost surface water quality monitoring, which is a result of completion of the on-post soil remedy. Off-post ROD-required surface water quality monitoring continues, as discussed below. The long-term monitoring programs are to be evaluated in each five-year review and potential recommendations for changes to the programs will be made at that time. Water table maps will be developed annually, and on-post plume extent mapping will be performed on a 20-year cycle, with the next such mapping event performed for 2014 monitoring data as part of the 2015 five-



year review. The reporting requirements for water level monitoring, water quality tracking, and surface water quality are provided in the LTMP. For site-wide plume monitoring, Annual Summary Reports are prepared to provide evaluation of monitoring data. In addition, Five-Year Summary Reports are prepared as part of the five-year site review process to support preparation of the Five-Year Review Reports. A summary of each monitoring category is provided below.

Water Level Tracking

Water level tracking is the primary means of tracking the effects of remedies on water levels and flow directions on post. The water level tracking involves annual monitoring of the wells identified for this category in the LTMP. Water level maps are issued as part of the Annual Summary Report for Groundwater and Surface Water. The LTMP performance criteria for water level tracking summarize the program requirements and the evaluation process as follows:

- Develop and maintain water level tracking network that tracks the impacts of on-post remedy implementation on water levels, flow direction, and contaminant migration pathways in previously identified plumes between on-post source areas and the RMA boundary.
- Evaluate water level data to assess if lowering of the water table is occurring where soil covers and caps are installed. Use visual time-trend comparisons of water level contours to assess if there are any changes that could impact flow, flow directions, and contaminant migration pathways.

Water Quality Tracking

Water quality tracking involves monitoring of plume-specific indicator analytes in accordance with the 2010 LTMP. Samples from the wells are collected twice in five years for some wells and once in five years in areas where groundwater migration is very slow. The performance criteria for water quality tracking are as follows:

- Conduct monitoring for indicator analytes in source areas and within historically defined plumes for contaminant tracking purposes.
- Evaluate water quality data to assess concentration trends and address potential needs for changes to the monitoring program. Use water level data and historical chemical data to identify monitoring locations and indicator analytes.

CFS Monitoring

The on-post CFS monitoring program was developed to meet the monitoring requirements identified in the On-Post ROD (FWENC 1996a). Based on the ROD requirement and the monitoring objective provided above, the following performance criteria were defined for the CFS in the 2010 LTMP:

- Provide data that can be used to determine whether downward hydraulic gradients are present indicating the potential for downward contaminant migration.
- Maintain monitoring program to determine whether contaminant concentrations in the CFS are increasing or migrating significantly with time.



The 19 CFS wells identified in the LTMP will continue to be monitored twice in five years for their respective indicator analytes. When the ROD requirement of post-remedy monitoring has been met, discontinuation of the CFS monitoring network will be considered. The RVO will make a recommendation to discontinue the program based on a review of historical data to determine whether there is any remaining contamination of concern in the CFS. The 2010 LTMP includes a list of factors that may be considered when evaluating whether CFS monitoring can be discontinued. The CFS monitoring results will be included in the annual summary reports as applicable and will be evaluated in the Five-Year Summary Reports and Five-Year Review Reports.

If agreement is reached that discontinuation of CFS monitoring can proceed, a Decision Document that specifies a confirmatory sampling program will be developed for signature by all parties. If it is determined that long-term monitoring should be resumed, the well(s) and analytes will be identified in the LTMP, which will be updated to reflect the change in the monitoring program.

Off-Post Exceedance Monitoring

Off-Post Exceedance Monitoring is conducted to assess contaminant concentration reduction and remedy performance (HLA 1995). The RVO conducts CSRG exceedance monitoring twice in five years. The CSRG exceedance monitoring network was updated in the 2010 LTMP to ensure that proper wells and analytes are monitored so that the most accurate CSRG exceedance areas can be determined.

Exceedance monitoring is conducted for a network of off-post monitoring wells and private wells. The exceedance monitoring network and analytes will be re-evaluated over time in response to changing conditions off post. The following criteria, which were developed to assess the existing network, will be used as guidelines for potential future network revisions:

• If an exceedance monitoring well has not had any CSRG exceedances during at least three consecutive sampling events, is located in an area where there were no exceedances during the last Five-Year Review period, and is located where there is no evidence of migration of an upgradient exceedance toward a well, the exceedance monitoring well will be considered for removal from the exceedance monitoring network.

Exceedance monitoring is also conducted in support of the institutional control component of the off-post remedy. The purpose of the institutional controls is to prevent the future use of groundwater exceeding remediation goals. The CSRG exceedance maps are used to develop notification area maps that the State Engineer's Office (SEO) uses for the Well Notification Program as discussed in Section 7.5.

Surface Water Quality Monitoring

Surface water quality monitoring has been conducted to support requirements in the On-Post and Off-Post RODs to evaluate the impact of the remedy on surface water quality and biota.

Contaminated soil areas were excavated during a multi-year period, and surface water quality has been monitored as it leaves the RMA site boundary as well as in the off-post area. Monitoring of



surface water entering RMA was also performed until 2003, when upgradient monitoring was discontinued. No organic target analytes were detected in the on-post First Creek surface water sampling sites near the north boundary during the excavation of contaminated soil. Further, all contaminated soil with concentrations above site-specific action criteria has either been removed and disposed in landfills or has been covered, thus eliminating the potential for movement of contaminated soil to surface water. Consequently, long-term monitoring of on-post surface water to detect contamination caused by contaminated soil is no longer necessary and was discontinued with the implementation of the 2010 LTMP.

To continue to evaluate the effect of groundwater treatment on surface water quality in the Off-Post OU, which is not monitored during storm events, surface water quality monitoring will continue at site SW24004 and off-post site SW37001 (First Creek at Highway 2). Annual surface water quality samples will be collected at off-post site SW37001 when there is low flow in First Creek. Typically, low flow occurs during the spring or summer; sampling occurs during the third quarter of the fiscal year, i.e., April through June. Guidelines for the conditions necessary for sampling are provided in the 2010 LTMP.

A Surface Water Quality Monitoring Report for the Rocky Mountain Arsenal, which covered the period from the signing of the ROD to 2003, was issued in 2003 (RVO 2003a). Another surface water report was issued as Draft Final for Regulatory Agency review in 2008 and is scheduled for completion in 2011 (RVO 2008, draft). An MCR to document the completion of the ROD-required on-post surface water monitoring program is expected in late 2011.

Surface Water Management

Surface water management has been conducted in support of the soil remedy and involves management of water use for remedy support and irrigation. This task included collection of stream flow and stage data at gauging stations, seasonal wetlands, lakes, and ponds as well as water quality monitoring for protection of the aquatic ecosystems and review and reporting of hydrologic conditions.

The RMA Surface Water Management Plan was prepared to balance forecast water demands with water supplies. The Surface Water Management Team was disbanded at the end of 2010.

The activities included under surface water management have been adapted to the remedy needs during the course of the on-post remedy and have included:

- Development of Surface Water Management Plans to update the program to adjust to changing monitoring needs
- Maintenance of stream flow gauging station network for water rights accounting and surface water management
- South Adams County Water and Sanitation District (SACWSD) data collection as necessary
- Maintenance of lake stage gauging station network for water rights accounting and surface water management



- Maintenance of seasonal wetland gauging stations for habitat management
- Water quality monitoring for the protection of aquatic ecosystems
- Monthly hydrologic conditions reports
- Annual surface water reports

Future management will be conducted to ensure that the needs of the Refuge and completed soil remedy are met.

South Lakes Plume Management

The selected remedy in the On-Post ROD requires:

Lake-level maintenance or other means of hydraulic containment or plume control will be used to prevent South Plants plumes from migrating into the lakes at concentrations exceeding CBSGs in groundwater at the point of discharge. Groundwater monitoring will be used to demonstrate compliance.

An evaluation of contaminant migration was conducted in accordance with the *Rocky Mountain Arsenal South Lakes Sampling and Analysis Plan for Groundwater* (USGS 2001). This monitoring program, which focused on monitoring contaminant migration into Lake Ladora, revised a previous evaluation project (FWENC 1997).

The data quality objectives for the monitoring program were developed to answer the following questions:

- Do conditions allow potential migration into the South Lakes?
- Do contaminants migrate into the South Lakes at groundwater concentrations exceeding the CBSGs at the point of discharge?

The South Lakes Plume Management groundwater monitoring program results were documented in the final South Lakes groundwater monitoring report (USGS 2004). The data presented in the report confirm that South Plants plumes are not migrating into the lakes at concentrations exceeding CBSGs in groundwater. Based on the results of the South Lakes groundwater monitoring study, an ESD was completed to remove lake level maintenance or other means of hydraulic containment required by the ROD for plume management. The ESD was approved by EPA on March 31, 2006 (TtEC 2006e). The ESD did not remove the requirement for groundwater monitoring to demonstrate compliance and that monitoring is included in the LTMP.

Table 5.7.2-1 presents significant milestones for the Site-Wide Plume Monitoring Program.

Table 5.7.2-1 Site-Wide Groundwater Plume Monitoring Program Milestones

| Activity | Date |
|---|---------------|
| Long-Term Monitoring Plan for Groundwater | December 1999 |
| Well Retention and Closure Program | April 2003 |
| Surface Water Quality Monitoring Report | 2003 |

| Final South Lakes Groundwater Monitoring Report | March 2004 |
|--|--------------|
| Explanation of Significant Differences for Groundwater Remediation and | March 2006 |
| Revegetation Requirements | |
| Long-Term Monitoring Plan for Groundwater and Surface Water | March 2010 |
| Five-Year Summary Report for Groundwater and Surface Water | January 2011 |

5.7.3 Cost Summary

The original baseline remediation cost estimate for this project was \$17,537,884, including \$12,760,169 for site-wide plume monitoring, \$947,917 for CFS monitoring, and \$3,829,798 for South Lakes plume management. The Estimate at Completion for this project is \$25,016,636, which represents an approximate increase of 43 percent. These costs represent RVO, PMC, and USGS costs for on-post and off-post plume monitoring as well as maintenance of the well network and documentation of monitoring results.

5.8 Medical Monitoring Advisory Group (2.07.43)

5.8.1 Description of Activities

The selected remedy in the On-Post ROD for Medical Monitoring required that a medical monitoring program be instituted that would respond effectively to RMA-related health concerns of the surrounding communities during the soil cleanup. CDPHE has the lead role in the medical monitoring program. The ROD also stipulates that a Medical Monitoring Advisory Group be formed to recommend appropriate program components. As directed by the ROD, the Medical Monitoring Advisory Group had representation from affected communities that included Commerce City, Montbello, Henderson, and Green Valley Ranch; from public health agencies including CDPHE, Agency for Toxic Substances and Disease Control, EPA, Denver Department of Environmental Health, and TCHD; and from the Army, Shell, USFWS, independent technical advisors, and the Site-Specific Advisory Board.

The Medical Monitoring Advisory Group completed its work in October 1998 and submitted a final report to CDPHE for acceptance. CDPHE formally accepted all 12 of the program recommendations developed by the Medical Monitoring Advisory Group and began program implementation. The program recommendations include systematic evaluation of air quality data and their health significance, a medical referral system to track and respond to community health concerns, systems to monitor birth defects and cancer in the neighborhoods around RMA, improvements to the RMA air quality and odor monitoring programs, improvements to emergency response programs, a process for selecting appropriate public health actions, health professional education, and public involvement and education.

In accordance with the Medical Monitoring Advisory Group recommendations, the Medical Monitoring Program was implemented throughout the duration of the remedy program. The program evaluated air quality data provided by the air and odor monitoring programs, which documented control of chemical and odor emissions and indicated the success of exposure prevention efforts during soil remediation. The program also tracked and responded to potential RMA-related health concerns of the community through its toll-free health information hotline and monitored birth defects and cancer rates in the neighborhoods around RMA. For the future, CDPHE will continue to field calls from the citizens surrounding RMA with general questions

and health-related concerns and will continue to maintain its Medical Monitoring Program website to serve as a clearinghouse for any future issues related to the program.

An MCR is being prepared to document and evaluate monitoring results for the Medical Monitoring Program. The final report is expected in October 2011.

5.8.2 Cost Summary

The original baseline remediation cost estimate for this project was \$4,057,294. The Estimate at Completion for this project is \$4,057,438, representing a decrease of approximately 15 percent from the baseline estimate.

5.9 Traffic Management (2.07.63)

5.9.1 Scope

Construction and maintenance of primary haul roads was performed to support the implementation of the ROD remedy. Primary haul roads and, to a lesser extent, joint-use roads provided access between waste consolidation/disposal facilities and IP areas for transportation of waste materials, between borrow areas and IP areas for transportation of borrow materials, and to IP areas for delivery of construction equipment and materials.

5.9.2 Description of Activities

A site-wide network of haul roads was constructed to provide access between the various IP sites and on-site consolidation/disposal facilities and borrow areas and for transportation of construction materials on site. The design for the site-wide network of haul roads was completed in 1998 (FWENC 1998b, 1998c). Construction of the approximately 12.5-mile-long system was implemented in two stages and was completed in 1999. Then, beginning in August 2005, the Biota Barrier Material (BBM) Haul Road was constructed for transportation of BBM from the former Stapleton Airport to cap/cover IP areas. Haul roads were located in areas where there were no remedial actions required by the ROD or where all ROD-identified remedial actions had been completed. Project waste haul, borrow haul, and construction traffic were kept separated from public and administrative traffic. Project-specific haul roads were constructed and removed as part of each IP and are documented in each project CCR.

Haul roads and joint-use roads were maintained throughout the remedy. General maintenance activities included pothole and rut repair, stormwater management and erosion control, snow removal, sign and road barrier maintenance and repairs as necessary to maintain the integrity of the road surfaces. Haul road operations included a requirement for remediation projects to decontaminate vehicles leaving a project area before entering the haul roads to ensure that no contaminated material was transported from project areas onto the haul roads. Routine inspections were performed to verify the effectiveness of the decontamination efforts. In addition, remediation projects were required to conduct spill response for any petroleum products (e.g., hydraulic fluid, oil, fuel, etc.) that may have been spilled or leaked on the haul roads during routine use and to clean-up any hauled materials that may have been spilled during use of the roads. Spill response actions are documented in the project records for each individual IP.



In May 2007, confirmatory samples were collected in several locations along the haul roads to confirm that there were no releases along or on the roads. Thirteen samples were collected from four different areas. These samples were collected after the use of the roads for remedial actions was substantially complete. The results showed concentrations of arsenic, chromium, and lead within RMA background levels and non-detect for all other contaminants of concern. The results of the haul road sampling are presented in a data summary report (TtEC 20080).

Requirements for haul road construction, removal, and maintenance necessary to accommodate ongoing remedy implementation activities and general site-wide public and administrative traffic were reviewed annually, and the Site-Wide Traffic Management/Haul Road Operations Plans were updated annually to reflect the needs for the coming year (FWENC 2000c, 2001c, 2003g; TtFW 2004t, 2004b; TtEC 2006a, 2006h, 2007c, 2008h, 2009g). These plans presented the scope of work for the coming year.

The Haul Road Removal Plan (TtFW 2004q) and Site-Wide Traffic Management Road and Laydown Area Removal Plan (TtEC 2009m) specified haul road removal/modification and laydown areas removal. Haul roads segments were removed as remediation projects were completed and segments of road were no longer necessary. Segments of haul roads identified for continued use by USFWS for operation of the Refuge or Army operations and maintenance activities were not removed; although in some cases they were modified because they were no longer needed to support heavy haul traffic. Figure 5.9.2-1 shows locations of removed and remaining haul roads. Areas where haul roads were removed were graded to blend with the natural topography and revegetated by the USFWS in a manner that is consistent with the Refuge habitat restoration requirements (USFWS 1999). Materials generated during road removal and modification were either disposed or stockpiled for later use by USFWS. Future road modifications, if necessary, will be made as part of long-term maintenance activities.

Table 5.9.2-1 presents significant milestones for the Traffic Management Program.

Table 5.9.2-1 Traffic Management Program Milestones

| Activity | Date |
|---|----------------|
| Stage I Design | August 1998 |
| Stage II Design | September 1998 |
| Haul road construction completion | Spring 1999 |
| Haul Road and Traffic Management Annual Updates | 2000 - 2009 |
| BBM haul road construction completion | Spring 2006 |
| Haul road removal and modification completion | Spring 2010 |

5.9.3 Cost Summary

The original baseline remediation cost estimate for this project was \$272,500, an amount that represented only initial planning for on-site transportation. The ROD included transportation costs within each project, which would include construction, maintenance and removal of haul roads necessary to deliver the waste to the on-site disposal facilities. The RVO implemented a site-wide program to provide construction and maintenance of haul roads that would be used by more than one project.

The Estimate at Completion for this project is \$26,897,164 and includes costs for design and construction of the site-wide haul road system, maintenance of haul roads during remediation activities, and removal or modification of haul roads at the completion of the remedy.

5.10 Geophysical Screening (2.07.64)

5.10.1 Scope

The selected remedy in the On-Post ROD includes geophysical screening to locate UXO in areas where the RI identified the potential for UXO. Geophysical screening was completed to further define areas where Munitions and Explosives of Concern (MEC) might be encountered. For remediation, the broader term MEC, which includes UXO, was used to encompass all munitions-related items. A geophysical survey was performed in areas designated as potential MEC sites prior to the commencement of work in those areas to minimize the risk of MEC hazards during remediation work.

5.10.2 Description of Activities

The geophysical survey covered an area of 3,240 acres in 12 different RMA sections. Arrays of total field magnetometers were deployed via a nonmagnetic cart system over the site to cover the area at an average rate of 34 acres per workday. The magnetometer data were positioned, using GPS navigation technology, and integrated within a geographic information system for processing and analysis.

A total of 10,693 targets were detected during this screening effort. The targets were evaluated using a software system that used analytical modeling of the magnetic field data, comparison of targets against a database of known signatures and expert operator opinion. Detections ranged from small shallow targets estimated to be near the surface and weighing a pound or less to large deep targets in excess of 15 feet deep and weighing 500 pounds or more. Additional features were observed in the data and interpreted as burn pits, trenches, and landfills.

Each of the target anomalies was analyzed using seven different parameters, which eventually led to the excavation/characterization of 783 targets. Of these 783 targets, 2 resulted in MEC, both located within the boundary of Site ESA-4a, which was subsequently remediated as part of the Munitions Testing Project. The remaining 781 targets resulted in munitions debris, cultural debris, or were geologic in nature. The primary objective of the anomaly characterization effort was to determine the extent of the areas which would require an additional munitions response effort. This information was used to ensure the safe implementation of remedy projects completed in those areas and support the design efforts for the Munitions (Testing) and Burial Trenches Projects. Results of the geophysical survey are documented in the Final Report - Geophysical Screening Activities and Results (SC&A 1998).

It should be noted that there were additional project-specific geophysical screening efforts completed during the remedy. However, these efforts were completed as part of the respective projects and are reported in the corresponding project CCRs. Table 5.10.2-1 presents significant milestones for the Site-Wide Geophysical Screening Program.

Table 5.10.2-1 Site-Wide Geophysical Screening Program Milestones

| Activity | Date |
|-------------------------------|---------------|
| Geophysical survey completion | October 1998 |
| Final report issued | December 1998 |

5.10.3 Cost Summary

The ROD included geophysical screening within each project where there was a potential for UXO discovery and did not include a site-wide screening program. As a result there were no costs in the baseline estimate. However, the RVO implemented a site-wide program during the initial stages of remedy implementation to identify potential anomalies in multiple project areas in the most efficient manner possible. The Estimate at Completion for this program is \$1,239,446.

5.11 UXO Disposal (2.07.65)

5.11.1 Scope

The selected remedy in the On-Post ROD requires that UXO encountered during remediation be excavated and transported off post for detonation (unless the UXO is unstable and must be detonated on post) or other demilitarization process. During remediation, the PMC UXO Department responded to discoveries of anomalies that may have resulted in recovered MEC and/or RCWM, managed and/or performed military munitions-related operations relating to confirmed munitions, and provided military munitions-related construction support during remedial efforts that had the potential to result in recovered MEC, RCWM, and/or munitions debris. Additional support was provided by the Technical Escort Unit (TEU). The TEU is an Army unit based in Aberdeen, Maryland, which specializes in the identification, handling, transportation, and emergency destruction of Ordnance/Explosives and UXO.

5.11.2 Description of Activities

The PMC UXO Department provided full-time support on a number of project-specific tasks that included a munitions response component, the majority of which were included in the Toxic Storage Yards, Burial Trenches and Munitions (Testing) Soils, Existing Sanitary Landfills, Section 36 Balance of Areas, Miscellaneous Structures, and Lime Basins projects. As a function of supporting each project, UXO personnel were tasked with management, including disposal, of all recovered MEC. Potential and confirmed RCWM was managed and disposed by the TEU. The UXO component of each of these projects is documented in the project CCR.

The PMC UXO Department also provided on-call construction support to all projects and remedy support activities when anomalies were discovered during project work. The anomalies were characterized and either disposed or cleared as not having MEC potential. Potential and confirmed RCWM was managed and disposed by the TEU. These activities were documented on Anomaly Response Forms and in each project CCR.

With one exception, all UXO and discarded military munitions recovered during remedy activities were considered unstable and were explosively disposed on post using donor explosives. MEC recovered on RMA have been subjected to extreme heat, shock, and friction as

a result of some variation of a previous functioning/disposal attempt and were, therefore, considered unstable. The one exception was five M56 warheads (components of the M61 rocket) recovered during Part I of the Burial Trenches/Munitions Testing Project. TEU personnel confirmed the warheads as simulant-filled (ethylene glycol) and/or explosive-filled (Tetryl). The TEU assumed custody of the M56 warheads and transported the warheads off post for disposal.

Chemical warfare material (CWM) response actions performed in support of the remedy are discussed in the *Chemical Warfare Material Response After-Action Report* (TtEC 2011c) and munitions response actions are discussed in the *Munitions Response After-Action Report* (TtEC 2010i). These reports document that the chemical agent and explosives safety aspects of the responses were completed in accordance with the applicable Chemical Safety Submissions (CSSs) and Explosives Safety Submissions (ESSs), which were approved by U.S. Army Technical Center for Explosives Safety and the Department of Defense Explosives Safety Board. Remediation activities associated with the CWM and munitions response actions are also documented in the appropriate CCRs (TtEC 2009o, 2009r, 2008m, 2008p; TtFW 2004f, 2004g, 2004p; FWENC 2003a, 2002a).

During execution of CSSs, CWM was recovered from the Section 36 Boneyard (Boneyard) (M139 bomblets, which were disposed by TEU personnel) and chemical agent was recovered from the North Plants site (a vial of GB, which was neutralized in the on-site laboratory). During execution of the ESSs, 877 acres were cleared and 8,779 MEC were recovered and disposed. Figure 5.11.2-1 shows the locations of the CWM response sites and Figure 5.11.2-2 shows the locations of munitions response sites.

Between October 2000 and June 2001, ten M139 bomblets were discovered during cleanup activities as part of the Miscellaneous RMA Structure Demolition and Removal Project in the Boneyard. TEU munitions experts evaluated the bomblets and determined that the bomblets contained the nerve agent GB. The Explosive Destruction System, which demilitarizes munitions through detonation followed by the introduction of a chemical reagent in the vessel to neutralize any chemical agent, was used by TEU for bomblet disposal. As part of the Explosive Destruction System plan, the Boneyard was covered by a Large Area Maintenance Shelter to provide containment and a temperature-controlled working environment. Destruction of the first six bomblets is documented in the M139 Bomblets Destruction Completion Report (FWENC 2001e); destruction of the last four bomblets was documented in a second report (FWENC 2001a). Overall documentation for the boneyard remediation, including bomblet destruction, is included in the Miscellaneous RMA Structure Demolition Phase 1 CCR (FWENC 2003a).

Although cleanup of the Boneyard is part of the selected remedy, the Boneyard had not been identified as having a potential for RCWM or MEC. In response to the discovery of M139 bomblets, the Summary and Evaluation Team was formed in January 2001 for the purpose of performing the RMA-wide evaluation of potential MEC and RCWM hazards. The team members included representatives from EPA, CDPHE, TCHD, and RVO. The evaluation of MEC and RCWM hazards contained the following major elements:

• Review of aerial photographs using new state-of-the-art technological capabilities and identification and review of observed anomalies



- Review of historical documentation, including reports, geophysical surveys, interviews and depositions, with regard to potential MEC and RCWM hazards
- Field investigation of anomalies that could not otherwise be explained
- Integration of the results from the document review, aerial photograph review, and field investigations into a section summary and hazard evaluation

As a direct result of the Summary and EvaluationTeam's efforts, six additional sites were identified and added to the Burial Trenches or Munitions (Testing) Soil Remediation Project. The Summary and EvaluationTeam's efforts are documented in a final report, Summary and Evaluation of Potential Ordnance/Explosives and Recovered Chemical Warfare Materiel Hazards at the Rocky Mountain Arsenal (FWENC 2002d).

The Army responsibility for military munitions-related hazards on RMA is nontransferable and remains with the Army after the RMA remedy is complete. Long-term management of the potential to encounter military munitions, or remnants thereof, on RMA will be managed according to the *Response Plan for Recovered Material Potentially Presenting an Explosive Hazard (MPPEH)* (TtEC 2010k). All MPPEH identified by RMA Refuge personnel will be inspected, recovered, and disposed by local law enforcement or Department of Defense personnel trained in military munitions response.

Table 5.11.2-1 presents significant milestones for the UXO Disposal Program.

Table 5.11.2-1 UXO Disposal Program Milestones

| Activity | Date |
|--|----------------|
| ESS for magazine reactivation approval | July 1999 |
| ESS for reactivation of demolition range approval | November 1999 |
| ESS for Burial Trenches/Munitions (Testing) Soils projects approval | March 2000 |
| CSS for Eastern Study Area-2c approval | September 2000 |
| First Section 36 Boneyard bomblet discovered | October 2000 |
| Summary and Evaluation Team formed to evaluate site-wide potential of potential MEC and RCWM | January 2001 |
| CSS for Section 36 Boneyard approval | April 2001 |
| Bomblet destruction completion | July 2001 |
| CSS for North Plants structures demolition and GB equipment | September 2001 |
| destruction approval | |
| Evaluation of site-wide potential of potential MEC and RCWM report completion | June 2002 |
| ESS for Section 36 Balance of Areas soil remediation approval | November 2003 |
| ESS for demolition range exclusion zone approval | January 2006 |
| ESS for Section 36 Borrow Area 9a approval | May 2006 |
| ESS for demolition range approval | November 2006 |
| Munitions Response After-Action Report | June 2010 |
| Chemical Warfare Materiel Response After-Action Report | March 2011 |

5.11.3 Cost Summary

The ROD included UXO disposal within each project where there was a potential for UXO discovery and did not include a site-wide disposal program. As a result there were no costs in the baseline estimate. However, the RVO implemented a site-wide support program to efficiently respond to munitions issues across all projects. The Estimate at Completion for this program is \$9,918,550.

5.12 Biota Barrier Material (2.07.66)

5.12.1 Scope

The selected soil remedy in the On-Post ROD requires construction of RCRA and RCRA-equivalent caps/covers that include biota barriers. The BBM Project identified and stockpiled an adequate volume of suitable material for this use.

5.12.2 Description of Activities

Once BBM use and design issues had been resolved through the *Biota Barrier Material Issues Resolution Agreement* (RVO 2000), the BBM Project began the work of producing BBM. Existing concrete pavement from pre-approved runways, taxiways, aprons and shoulders of the former Stapleton International Airport was tested to verify that the compressive strength was acceptable (4,000 pounds per square inch, minimum) and then removed, crushed and stockpiled by Recycled Materials Company at the former Stapleton International Airport. In accordance with a second *Biota Barrier Material Issues Resolution Agreement* (RVO 2004), when the available concrete pavement at the former Stapleton International Airport was exhausted, an alternative source was identified at the Denver International Airport. This source consisted of concrete pavement removed from runways, taxiways and aprons and stockpiled at two locations adjacent to the airport. The stockpiled concrete was tested to verify that the compressive strength met the 4,000 pounds per square inch, minimum, requirement and then crushed and placed by Recycled Materials Company in the former Stapleton International Airport stockpile. Gradation and purity of content testing was performed on the stockpiled concrete at an on-site laboratory.

Concrete was processed for approximately 4 years, beginning in 2001. A BBM production report was prepared each year to document the volume of BBM produced that year and the results of testing performed (TtEC 2005f; TtFW 2004d, 2004s; FWENC 2002b, 2001b). A total of approximately 1,907,962 tons of BBM was produced, as follows:

- Production for FY01 was 386,500 tons
- Production for FY02 was 449,310 tons
- Production for FY03 was 594,000 tons
- Production for FY04 was 410,452 tons
- Production for FY05 was 67,700 tons

Hauling BBM from the former Stapleton International Airport stockpile to the project sites where it was used and placing it in the caps and covers was performed as part of IPs and is documented in the CCR for each IP. Table 3.0-2 provides a list of IPs and their associated CCRs. As required by the ROD, BBM was used in the HWL and ELF RCRA caps and in the Integrated



Cover System (ICS), which includes the Basin A, Complex (Army) Trenches, South Plants Central Processing Area and Lime Basins project sites), Shell Disposal Trenches, and Basin F RCRA-equivalent covers. Remaining BBM was placed in two on-site stockpiles for future use by the RVO and USFWS.

Table 5.12.2-1 presents significant milestones for the BBM Project.

Table 5.12.2-1 BBM Project Significant Milestones

| Activity | Date |
|--|---------------|
| BBM production began | January 2001 |
| BBM production ended | December 2004 |
| Last load of BBM was removed from the Stapleton stockpile | April 2009 |
| Deadline for removing all BBM from the Stapleton stockpile | July 2009 |

5.12.3 Cost Summary

The ROD included costs for BBM and biota barrier construction within each project where a biota barrier was required. The baseline estimate, therefore, did not include a cost element for program-wide development of BBM. The Estimate at Completion for the BBM Project is \$20,888,734. This cost is offset by BBM cost savings in each of the cap/cover projects.

5.13 Permanent Revegetation/Irrigation (2.07.67)

5.13.1 Scope

The selected remedy in the On-Post ROD for revegetation is:

Remedy components for all sites include reconditioning the surface soil and revegetating areas disturbed during remediation with locally adapted perennial vegetation.

The Site-Wide Revegetation Management/Irrigation Program designed, scheduled, and implemented a plan for efficient permanent revegetation/irrigation of disturbed sites and other areas to compensate for impacts of the remediation. Work was conducted jointly by the USFWS and the PMC, with RVO oversight. The program was based upon the *Habitat Restoration Plan for Rocky Mountain Arsenal National Wildlife Refuge* (USFWS 1999) and annual Vegetation Management Plans and Irrigation Work Plans.

5.13.2 Description of Activities

Areas outside the Army-Maintained Area (AMA) that were disturbed during remediation were generally permanently revegetated by USFWS. Areas were turned over to the USFWS for revegetation after the remediation was complete and the surface soil had been reconditioned. Reconditioning of the surface soil included some combination of backfilling, grading, ripping, disking, and either incorporating soil amendment (composted cow manure) or replacing topsoil. Permanent revegetation was done in both fall and spring. Some remediation areas outside the AMA boundaries were not permanently revegetated by USFWS if they were considered to have achieved the habitat goals of the Refuge. Examples include the following:

• Remediation areas within the lakes, if they were subsequently covered with water



- Remediation areas where potholing to recover anomalies resulted in minimal disturbance to existing vegetation
- Remediation areas where disturbance was minimal and weed management eliminated invasive species
- Remediation areas where interim seeding with locally adapted native perennial vegetation resulted in a vegetative cover that achieved habitat goals of the Refuge

Another example of a remediation area outside the AMA boundaries that was not permanently revegetated by USFWS was a portion of Borrow Area 5, which was revegetated by an IP.

Some permanently seeded areas outside the AMA boundaries were irrigated to improve the chances of successful vegetation establishment. Irrigation was accomplished using linear move, side roll, and solid set irrigation systems to irrigate outside the AMA boundaries from 1999 through 2010. No site-wide irrigation was done in 2009, because of the extensive irrigation performed on the constructed RCRA-equivalent and other soil covers that year. Irrigation was generally started June 1 and continued through the end of August, with approximately 6 inches of water applied during that period.

Areas within the AMA boundaries that were disturbed during remediation were permanently revegetated by IPs. These areas included HWL and ELF RCRA caps; ICS, Shell Disposal Trenches and Basin F RCRA-equivalent covers; South Plants Balance of Areas 3-foot cover; Shell Disposal Trenches 2-foot cover; and non-cover areas. All areas were irrigated except for the HWL and ELF RCRA caps. Irrigation was done by subcontractors using a variety of irrigation equipment that was selected specifically for each area. Irrigation was performed in 2007, 2008, and 2009; the largest area was irrigated in 2009. Revegetation and irrigation activities are documented in IP CCRs.

Temporary or interim seeding was sometimes performed to control weeds and minimize erosion in disturbed areas that would be disturbed again prior to permanent seeding. Temporary or interim seeding was also sometimes completed by IPs before areas were turned over to the USFWS. This revegetation is documented in IP CCRs. The interim vegetation served to mitigate loss of habitat, control weeds, and prevent soil erosion until USFWS established permanent vegetation. Herbicides, mowing, and tilling were also used to control weeds until permanent seeding was completed.

During preparation of and resolution of comments on the 2005 Five-Year Review Report, an ESD was prepared (TtEC 2006e) that clarified the ROD revegetation requirement. Since the Refuge Act requires most of the RMA to be transferred to USFWS upon completion of the remedy, certification of compliance requirements was added to the ESD as follows:

Sites will be reconditioned and seeded in a manner acceptable to the USFWS consistent with the USFWS management plan and annual "Vegetation Management Plan". For areas disturbed during the remedy, the USFWS will certify, in writing, to the EPA that the site has been revegetated or has a USFWS-approved revegetation plan that is being

implemented, and that the USFWS is satisfied that the site's habitat is being or will be restored to achieve the statutory purposes of the Refuge.

The USFWS certification of compliance with the ESD provision for revegetation was documented in a series of letters to EPA identifying specific areas graphically on figures attached to the letters. A final letter and accompanying figure, dated January 28, 2010 (USFWS 2010c), certified that all areas outside the AMA boundaries, whether it was depicted on the attached figure or not, have been (or will be) seeded with locally adapted perennial seed according to USFWS terrestrial restoration planning schedule to ensure that the sites' habitats will be restored to achieve the statutory purposes of the Refuge to the USFWS's satisfaction.

The USFWS has identified areas it intends to plant to permanent vegetation through 2013, including acreage outside areas disturbed during remediation. The additional revegetation outside disturbed areas compensates for impacts caused by remediation-related activities, consistent with the *Habitat Restoration Plan for Rocky Mountain Arsenal National Wildlife Refuge* (USFWS 1999). Figure 5.13.2-1 shows the extent of areas disturbed during remediation and the revegetation status of those disturbed areas. Areas disturbed during remediation include excavations, covers, roads, laydown and parking areas, graded areas, potholed areas and areas where tilling was required to complete remediation (e.g., TRER areas).

Annual updates to Vegetation Management Plans (TtFW 2004r, 2005a; TtEC 2006d, 2007e, 2008n, 2009i, 2010l) and Irrigation Work Plans (FWENC 1999b, 2003h; TtFW 2004u, 2005b) were prepared and served as planning and documentation tools for the management of site-wide revegetation and irrigation work. Vegetation Management Plans contained summaries of previous years' operations, as well as those planned for the upcoming year.

Table 5.13.2-1 presents significant milestones for the Permanent Revegetation/Irrigation Support Program.

Table 5.13.2-1 Permanent Revegetation/Irrigation Support Program Milestones

| Activity | Date |
|--|----------------------------|
| Habitat Restoration Plan for Rocky Mountain Arsenal National Wildlife Refuge | August 1999 |
| 10-Year Irrigation Work Plan (FWENC 1999b) | September 1999 |
| Irrigation Work Plans 1999-2008 and 2010 (None done in 2009) | 1999-2008, 2010 |
| 2004 – 2010 Vegetation Management Plans | March 2004 – April 2010 |
| Revegetation Acceptance Letter from USFWS to EPA (USFWS 2010c) | January 2010 |
| Completion of Site-wide Irrigation | August 2010 |

5.13.3 Cost Summary

The ROD included costs for revegetation within each remediation project. The baseline estimate, therefore, did not include a cost element for Site-Wide Revegetation/Irrigation Support. The Estimate at Completion for the Revegetation/Irrigation Support Program is \$12,676,174.

5.14 Drummed Waste Handling (2.07.68)

5.14.1 Scope

The ROD states that stored drummed waste, as identified in the waste management element of the CERCLA hazardous wastes IRA, may be disposed in the HWL in accordance with the Final Corrective Action Management Unit Designation Document, dated June 12, 1996 (HLA 1996b). The Draft *Drummed, Staged and Contained Waste Handling and Disposal Plan* (FWENC 1999c) was prepared to address drummed waste disposal. It provided background information regarding the waste to be disposed, outlined waste processing issues and concerns, discussed processing technology, proposed processing solutions, described waste transportation requirements and detailed documentation and record-keeping procedures.

5.14.2 Description of Activities

The draft *Drummed, Staged and Contained Waste Handling and Disposal Plan* (FWENC 1999c) addressed drums stored within South Plants and miscellaneous structures outside the boundary of South Plants, but not drums stored in the North Plants area. The draft plan described performance-based requirements for drum disposal operations and addressed the following list of waste streams, taken from the Final Decision Document for Element One of the CERCLA Hazardous Wastes Interim Response Action at the Rocky Mountain Arsenal, December, 1992:

- CERCLA Investigation-Derived Wastes
 - o Soils
 - o Liquid Wastes
 - o Personal Protective Equipment
 - o Laboratory Wastes
 - Trash
 - Contaminated Debris
 - Miscellaneous Drummed Solids
- Utility System Wastes
- Sewage Treatment Plant Wastes
- Facility Maintenance Shop Wastes
- Motor Pool Wastes
- Laboratory Wastes
- Found On-Post Wastes

The final plan was submitted to the Regulatory Agencies as Design Change Notices (DCNs) to the Miscellaneous RMA Structures Demolition and Removal Project. DCN-MSD-001 included all drums stored within South Plants and miscellaneous structures outside the boundary of South Plants, but not drums stored in the North Plants area. Disposal of these drums was performed under the Miscellaneous RMA Structures Demolition and Removal Project - Phase I. DCN-MSD-002 included drummed waste stored in the North Plants area, which was disposed as a part of the North Plants Demolition project. Preparation of the DCNs and disposal of the drums is documented in the project CCRs.

Table 5.14.2-1 presents significant milestones for the Drummed Waste Handling program.

Table 5.14.2-1 Drummed Waste Handling Milestones

| Activity | Date |
|---|-------------|
| Draft Drummed, Staged and Contained Waste Handling and Disposal | July 1999 |
| Plan prepared | |
| DCN-MSD-001 approved | March 2000 |
| DCN-MSD-002 approved | August 2000 |

5.14.3 Cost Summary

Costs for drummed waste handling and disposal were included in the individual structures demolition projects in the baseline estimate. However, early design stage planning was completed on a site-wide basis resulting in costs for this program. The Estimate at Completion for this project is \$106,383, representing the initial planning efforts. Remediation and disposal costs were incorporated in the Miscellaneous RMA Structures Demolition and Removal and North Plants Demolition projects.

5.15 Site-Wide Well Abandonment/Retention (2.07.69)

5.15.1 Scope

As part of the ROD implementation, well abandonment was conducted to accommodate the implementation of soil remediation projects and eliminate wells that were no longer needed or damaged beyond repair. The scope of this program included wells within or proximate to remediation project areas that were not identified for long-term use in the LTMP.

The focus of the well retention program, initiated in 2003, was to establish a process for identifying wells that needed to be retained for actual or potential monitoring purposes, thereby allowing for closure of additional wells.

5.15.2 Description of Activities

During soil remedy implementation, well abandonment activities were performed to accommodate field implementation projects and off-post development. A consolidated well abandonment campaign conducted within the Central Remediation Area in 2001 and 2002 resulted in the closure of 350 wells. Approximately 150 wells were abandoned in FY03 in the Western Tier deletion areas and in off-post development areas. A second consolidated well abandonment program conducted in 2003 and 2004 included closure of about 500 wells.

The Well Retention and Closure Program (WRCP) (FWENC 2003f) presented the decision process for identifying wells that could be closed from a groundwater monitoring perspective. The WRCP approach was to identify all wells that had an actual or potential monitoring purpose, thereby allowing other wells to be considered for closure. Annual well networks updates that reflect all changes to the RMA well networks have been issued since the implementation of the WRCP (PMRMA 2010a, 2009a, 2009b, 2008a, 2008b, 2006a; TtFW 2004c).

Well retention was addressed in the 2010 LTMP, but the actual decisions regarding retention of wells and closure of wells that are not needed now or expected to be needed in the future is ongoing. As a result, this site-wide program is identified for long-term O&M (see Section 7.4)

Long-term well network maintenance at RMA is an important component of the remedial actions prescribed by the RODs for both the On-Post and Off-Post OUs (FWENC 1996a, HLA 1995). The RMA well networks will be retained to ensure continued remedy and post-remedy monitoring and LTMP wells will be repaired or replaced as necessary if they are damaged. Well retention is intended to support all groundwater-related aspects of remedy implementation and performance monitoring, including long-term monitoring, other project-specific monitoring, and operational monitoring. Well maintenance and repairs will be performed on an as-needed basis for on-post and off-post wells in response to observations made during reviews to maintain the integrity of the well. Wells may be modified or adapted to reduce tampering or damage by traffic, construction, grounds maintenance, fire, wildlife, or off-post development. Monitoring wells will be reviewed each time a well is used during scheduled monitoring events. The minimum checks on well integrity and follow-up actions are identified in the Groundwater Sampling Procedure (URS 2010).

5.15.3 Cost Summary

Since there was no specific ROD requirement for site-wide well abandonment, there was no cost assigned to this program in the baseline estimate. The Estimate at Completion for this program is \$2,305,576, including costs for well abandonment and maintenance costs for retained wells.

5.16 On-Post Water Supply (2.08.45)

5.16.1 Scope

The ROD requires that a sufficient on-post water supply be maintained to support remedial actions, including revegetation, habitat enhancement and maintenance of lake levels. During remedy implementation, several potential water supply alternatives were identified and evaluated and ultimately used for remediation, construction, vehicle and equipment decontamination, dust suppression, irrigation, haul road maintenance, minimum lake level maintenance, and wetlands fill.

5.16.2 Description of Activities

The Evaluation of a Short-Term and Long-Term On-Post Water Supply Alternative Final Report (PMRMA 1996b) was prepared to identify and evaluate potential water supply alternatives for use at RMA. The report stated that existing water supplies were not sufficient to meet the demands of the remedial activities, referred to as short-term demands, and that a water supply was also needed by USFWS to maintain RMA as a Refuge in perpetuity after remediation is complete. The latter supplies were referred to as long-term demands. This report identified and evaluated potential water supply alternatives for use at RMA and stated that existing water supplies would be used to the extent possible.

Existing water supplies at RMA included three permitted groundwater supply wells located in Section 4 that were connected by piping to Lake Ladora and High Line Canal water, in addition to variable storm water flows into the lakes from a watershed located south and southeast of the



southern boundary of RMA. The federal government owned shares for High Line Canal water, and that water had historically been delivered to RMA by Denver Water. It was determined that these existing supplies would be used as long as possible.

In December 1997 a Memorandum of Understanding was signed by the Denver Water Board (DWB), SACWSD, the Army and the USFWS regarding project facilities needed to supply the Refuge with nonpotable water and to supply SACWSD with potable water. In 1998, a Biological Assessment (ERO 1998b) and an Environmental Assessment (ERO 1998a) were prepared to assess potential biological and environmental effects of supplying water to the Refuge and SACWSD.

The Risk Assessment for Section 4 Water Supply Wells (FWENC 1998d) was prepared to meet the ROD requirement that a risk assessment be performed prior to any nonpotable use of on-post groundwater to assess potential risks to humans and ecological receptors associated with exposures to contaminants of concern in this water source. Groundwater wells 04303, 04304, and 04305 in Section 4 were identified as a potential source of water for remedial activities at RMA and maintenance of the Refuge. Groundwater from these wells would be pumped to Lake Ladora for holding and then withdrawn from the lake, as needed, for remedy activities. Results of the risk assessment indicated that the use of groundwater from these wells for the intended purposes was not expected to result in adverse effects to human health or impacts to ecological receptors. Water from these wells was then used as a source of nonpotable water.

Until 2004, the primary sources of nonpotable water were the spring and fall runs of the High Line Canal Lateral, distributed by the DWB in accordance with the 1998 Non-potable Water Lease Agreement, and groundwater pumped from production wells 04303, 04304, and 04305 in Section 4. In 2004, DWB ceased delivery of nonpotable water using the High Line Canal because of the drought and the large amounts of water lost to seepage along its 66-mile course from the foothills southwest of Denver to RMA. As a result, the DWB, the Army, and USFWS renegotiated the non-potable water lease agreement to provide alternative water sources, including Denver potable water and Denver recycled water to be discharged into Lake Ladora and a new groundwater production well in Section 12.

To determine the feasibility of a new groundwater production well in Section 12, aquifer pumping tests were performed during 2004 in three wells in Sections 7, 11, and 12 (TtFW 2004e). On the basis of these tests, it was determined that a new production well would be installed near monitoring well 12005. The new well, well 12025, was installed in December 2004 and January 2005, but never used.

The new water lease agreement was executed in April 2008. In accordance with the new agreement, Denver potable water was delivered to Lake Ladora through existing potable water lines at RMA. New piping was installed in the Lake Ladora Pump House to convey potable water into the Pump House "wet well", where the water from Section 4 and Lake Ladora is filtered prior to being pumped for use at RMA. A dechlorination system was installed in the Pump House to make this water suitable for discharge into the lake.



The 2008 water lease agreement with DWB also provides for Denver recycled water in perpetuity, beginning when DWB completes a recycled water main pipeline along the RMA south boundary paralleling 56th Avenue, which is scheduled for early October 2011. Once Denver recycled water is available, Denver potable water will no longer be used and USFWS will use Denver recycled water to maintain the Refuge in perpetuity.

Surface Water Management Plans were prepared each year during remedy implementation to assess nonpotable water demands of the up-coming year and compare them to nonpotable water supplied to RMA through various sources and to plan activities to maintain sufficient on-post water supply to support remedial actions.

Table 5.16.2-1 presents significant milestones for the On-Post Water Supply Project.

Table 5.16.2-1 On-Post Water Supply Project Milestones

| Activity | Date |
|---|---------------|
| Evaluation of a Short-Term and Long-Term On-Post Water Supply | December 1996 |
| Alternative Final Report | |
| Risk Assessment for Section 4 Water Supply Wells | June 1998 |
| New Production Well Installation | January 2005 |
| New Non-potable Water Lease Agreement | April 2008 |

5.16.3 Cost Summary

The original baseline remediation cost estimate for this project was \$15,006,560. However, sufficient water supply was maintained using the existing sources on site and no additional water purchase or development was required during remediation. The Estimate at Completion for this project is \$212,717, which represents the water supply evaluations performed and the construction of the Section 12 well as a potential additional water source.

5.17 North Plants LNAPL Recovery (2.08.78)

Light non-aqueous phase liquids (LNAPL) associated with groundwater was first identified beneath the North Plants manufacturing area during water level monitoring in 1993 (TtEC 2007a). Follow-up sampling in 1993 showed low levels of BTEX (benzene, toluene, ethylbenzene and xylenes). Delineation of the LNAPL was initially conducted in July 2001 as part of the North Plants structures groundwater monitoring (FWENC 2001d). In September 2001, passive recovery of the LNAPL was undertaken and continued until demolition activities in the area required abandonment of the well and cessation of recovery in February 2002 (FWENC 2002i). Continuation of LNAPL recovery was planned to follow completion of North Plants surface remedial actions.

In December 2002, petroleum-impacted soils were observed during excavation of the chemical sewers surrounding Building 1712. This triggered two rounds of soil sampling to delineate the extent of petroleum-contaminated soil. The investigation and evaluation of the petroleum-contaminated soil was documented in the *North Plants Soil Remediation Project Petroleum Release Evaluation Report* (TtFW 2004a). The conclusion, based upon the RI results (Ebasco 1988a, 1988b), groundwater monitoring results, and the two rounds of soil sampling (TtFW

2004j) was that no action was required for soil; however, because LNAPL was present in association with groundwater beneath the former North Plants production area, free product recovery would be implemented with the number and location of recovery wells to be determined during design, and groundwater monitoring would continue to track attenuation of contaminants.

Water levels and LNAPL thickness were monitored and LNAPL and groundwater sampling were conducted to characterize the LNAPL accumulation, assess potential groundwater impacts, and design a pilot LNAPL removal system. The results were reported in the *North Plants Soil Remediation Project Interim Free Product and Groundwater Characterization Data Summary Report* (TtEC 2007a).

A pilot study on removal of LNAPL was initiated in 2009 with the purpose to determine the extent to which removal of LNAPL is practicable using a passive skimming system (URS and TtEC 2009). Twenty-two piezometers and two recovery wells were installed in the LNAPL plume in February 2009, and monitoring began in March 2009. The pilot LNAPL removal system is being operated to the extent necessary to gather data in support of the final action, if any, for the North Plants LNAPL Plume. As of this RASR, sufficient LNAPL has not been observed in the recovery well to commence LNAPL removal operations.

The Final North Plants Pilot LNAPL Removal Action Evaluation Report was issued by URS Corporation in April 2011 (URS 2011b). This report presented the monitoring results from March 2009 through May 2010. Based on the lack of conclusive data regarding the recoverability of LNAPL from the North Plants site, an additional monitoring period was recommended and monthly water level and LNAPL thickness measurements continued through August 2011. A subsequent evaluation report for the additional monitoring period will be prepared and will provide the basis for determination of the further actions necessary to address the LNAPL plume.

5.18 Lime Basins DNAPL Investigation (2.08.79)

In August 2009, field monitoring of the Lime Basins dewatering wells indicated the potential presence of dense non-aqueous phase liquid (DNAPL). Subsequent sampling confirmed that DNAPL, consisting of a mixture of chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, and dicyclopentadiene, was present in two of the six dewatering wells. Subsequent monitoring confirmed DNAPL in a third dewatering well. Because the presence of DNAPL was not a known site condition during preparation of the Lime Basins design documents and represented a new source material for the Lime Basins area, the discovery triggered the application of the CERCLA process and performance of a RI/FS. The Lime Basins DNAPL RI/FS Work Plan (TtEC and URS 2010b) outlined the approach and components of the RI/FS process.

The RI, which was completed in fall 2010, was conducted using historical and current data and identified three source zones in the following locations:

• At the northwest corner of the Lime Basins, near and downgradient of dewatering wells DW-10 and DW-5.



- Near the northeast corner of the Lime Basins, near well DW-9.
- Roughly 300 feet south-southwest of the southwest corner of the Lime Basins, at wells 36001, 36181, and 36182.

Conclusions from the RI indicate that the DNAPL within the first two source zones appears to be primarily, if not entirely, comprised of residual DNAPL with limited DNAPL mobilization occurring as a result of the operation of the dewatering wells and the subsequent changes in hydrologic conditions. To date, these effects have been localized and have only affected the immediate vicinity of the dewatering wells. The third area is not expected to mobilize to create a pool that could come in contact with the slurry wall. The DNAPL volumes observed have been insufficient to cause migration through the native soils (TtEC and URS 2010a).

In accordance with the Work Plan, the FS component of the report is a focused FS that follows a presumptive remedy approach, which is one tool of acceleration within the Superfund Accelerated Cleanup Model presented in EPA guidance on presumptive remedies (EPA 2009). Presumptive remedies are preferred technologies for common categories of sites. For the Lime Basins, the presumptive remedy is DNAPL source containment and DNAPL removal to the extent practicable (EPA 1996, 2009).

The recommended remedy presented in the FS for Lime Basins DNAPL consists of operation of dewatering wells including measurement and removal of recoverable quantities of DNAPL; monitoring of well pairs along segments of the slurry wall to facilitate water-level measurement, DNAPL detection, and analyses of COCs that will allow for the evaluation of slurry wall performance; and further refinement of the delineation of DNAPL source zones at these locations; and treatment of groundwater at Basin A Neck System to meet Containment System Remediation Goals (TtEC and URS 2011).

The recommended remedy includes the following elements:

- Removal of recoverable quantities of DNAPL from the dewatering and monitoring wells
- Addition of monitoring well pairs along the alignment of the slurry wall to enhance the capability of a monitoring program to detect any potential impacts of the DNAPL on the existing slurry wall
- Implementation of a monitoring program for the detection and measurement of DNAPL, and characterization of groundwater to evaluate the potential impacts of the DNAPL on the existing slurry wall and refine the delineation of DNAPL source zones identified through the RI/FS

An ESD is under preparation to document selection of the FS recommended remedy as a change to the ROD. Final remedy selection is expected in late 2011.



5.19 Trust Fund

5.19.1 Description of Activities

During the development of the ROD, members of the public and some local governmental organizations expressed keen interest in the creation of a trust fund to help ensure that the long-term O&M obligations of the Army would be performed. This provision was included because, at the time of the ROD, there was concern that Congress would severely cut funding for the cleanup of RMA, leaving the remedy incomplete. The ROD provided for the formation of a trust fund group to develop a strategy to establish such a trust fund, and in August 1996 a Trust Fund Work Group was established. The Trust Fund Group consisted of representatives from the Parties, the Restoration Advisory Board, the Site-Specific Advisory Board, the Governor's office, Commerce City officials, and the public. The first meeting was held August 14, 1996, and monthly meetings were held thereafter. The Trust Fund Group was co-chaired by a member of the Colorado Attorney General's office (Ms. Casey Shpall), Commerce City (Tim Gagen), and the Restoration Advisory Board (Roland Russell). The Trust Fund Group identified eight possible options for establishing a trust fund and, after much study and discussion, agreed that two options were the most feasible.

The first option consisted of establishing a trust fund under the auspices of EPA, which had received approval from the Office of Management and Budget to establish trust funds at its Superfund sites. Under this option, the Army would enter into an agreement with EPA, under which EPA would establish an interest-bearing sub-account for RMA within the Superfund Trust Fund. The second option consisted of Shell placing \$5 million in an interest-bearing trust fund established directly as an RMA response action project in lieu of making the payment to the Army as part of its cleanup costs. In return, Shell would receive credit for this expenditure as an allocable cost at the time of the deposit against the periodic payments due under the Settlement Agreement and the FFA.

Representatives of the Trust Fund Group met with EPA Region 8 authorities and contacted EPA Headquarters to discuss the first option. After several meetings with Region 8 authorities and phone conversations with Headquarters EPA, it was determined that because RMA was an active military installation, the EPA Superfund Trust Account could not be used to establish a trust fund for RMA. More specifically, Army money recovered from Shell could not be placed into the Superfund account because the recovery was not on behalf of the Superfund. Also, the CERCLA section governing the Superfund Account (42 USC § 9611(e)) states that no money in the Superfund is available for remedial actions at federally owned facilities with certain limited exceptions, none of which included O&M activities.

A series of letters were exchanged between the Trust Fund Group and Mr. Raymond Fatz, Deputy Assistant Secretary of the Army (Environment, Safety and Occupational Health), regarding the second option. As stated previously, a condition of the second option was that the Army consider the Shell payment into a trust fund as an allocable response cost for which Shell would obtain credit under its financial agreements with the Army. In addition to the series of letters, representatives of the Trust Fund Group met to further explain the second option. It was determined that the second option was legally unacceptable. Under fiscal law constraints, monies payable to the Army by Shell are considered response costs and must be managed under the



same rules that apply to appropriated funds. These rules dictate that response costs must be deposited in the U.S. Treasury and may not be placed in an interest-bearing account absent special legislation.

The last remaining option considered by the Trust Fund Group was to seek legislation to modify the Schroeder Account to fund the O&M trust account. All payments by Shell under the Settlement Agreement with the Army were deposited into the so-called "Schroeder Account," a special non-interest bearing account set up by Congress in 1986 to allow the Army to spend the funds deposited by Shell without a separate Congressional appropriation. This account was of great benefit to activities at RMA because major projects could be accomplished without waiting for Congressional appropriation. Meetings were held with U.S. Representative Diana DeGette and members of her staff regarding pursuit of legislation to establish the trust fund. This option was not pursued, however, because of concerns by the Army and Shell that such efforts might lead Congress to abolish or otherwise modify the Schroeder Account if it were again brought to the attention of Congress. This view was also supported by Commerce City representatives. At this point, all further work on the trust fund came to an end and the efforts were documented in the Rocky Mountain Arsenal Trust Fund Work Group Summary of Work (PWT 2006).

Accordingly, the only remaining alternative was to seek appropriate legislation. At that time, the Army and Shell determined that they had performed "good-faith best efforts" to establish a trust fund. The Trust Fund Group discussed seeking the necessary legislation, but following a series of communications with Colorado U.S. congressional representatives, it was determined that such an effort would be unsuccessful and no further meetings were held. In light of these unsuccessful efforts, made in good faith, this task is complete.

5.19.2 Cost Summary

There were no costs assigned for this activity in the baseline estimate. Instead, costs for the efforts associated with attempts to establish a trust fund were included within the Program Management element of the WBS (2.09).

5.20 Dioxin Study

After completion of the ROD and the start of remedial activities, some members of the public stated they were concerned that RMA might be contaminated with dioxins. To address this potential issue, EPA Region 8, working in cooperation with the State of Colorado and the RVO, completed a series of studies to characterize the levels of dioxins in on-site and off-site soils. The purpose of the studies was to summarize data on the levels of dioxin in random soil samples collected from across RMA, and to compare the site data with the regional ambient data in order to judge whether levels at RMA were elevated compared to other comparable locations in and about the greater Denver area, and, if so, whether the levels were in a range of potential human health concern to on-site workers. A series of four reports was completed presenting the study results for regional off-post soils and various areas at RMA (EPA 2001a, 2001b, 2001c, 2001d). The results from the studies show that the spatial pattern of contamination does not suggest that any significant off-site releases have occurred, and even the highest on-site levels are far below a level of health concern to on-site workers. Concentration levels in the RMA manufacturing areas were similar to those found at other industrial and commercial areas around the Denver Front



Range area. With remedy completion, it is expected that dioxin levels throughout RMA will be approximately the same as for open space areas in the Denver Front Range area and will present no significant health risk to future Refuge workers, volunteers, or visitors.

Although the BAS supported development and completion of the dioxin studies, there were no specific costs tracked to the site-wide program elements.

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6.0 Operational and Functional Status Summary

6.1 Groundwater Treatment Facilities

Typically, an O&F determination is documented through approval of a CCR or an Interim Remedial Action Report for groundwater remedies once construction is completed. However, most of the RMA groundwater treatment facilities were constructed as IRAs prior to recognition of O&F status in accordance with EPA close-out guidance (EPA 2000).

During the 2000 RMA Five-Year Review, the Army completed an assessment of the groundwater treatment systems to determine whether they were functioning as designed and that necessary operations and maintenance were being performed. In 2001, EPA and CDPHE concurred with the Army's conclusions in the 2000 Five-Year Review Report; specifically that the operation of water treatment plants had been implemented in a manner that is protective of human health and the environment. The EPA's acceptance of the 2000 Five-Year Review Report was considered the same as approval of an Interim Remedial Action Report and determined that the assessment was equivalent to an O&F determination (PMRMA 2006c). This determination was effective for the Basin A Neck System, NBCS, NWBCS, Irondale Containment System, Rail Yard and Motor Pool Extraction System, and CERCLA Wastewater Treatment Plant.

For groundwater systems constructed after the ROD, O&F determinations have been completed, as have CCRs for system construction. For the Section 36 Bedrock Ridge Groundwater Plume Extraction System, the CCR approval letter from EPA includes the O&F determination (EPA 2008). For the Complex (Army) Trenches Groundwater Barrier/Groundwater Extraction System Project, an O&F Report (RVO 2002) was completed along with the CCR to document completion and operational status of the system.

6.2 RCRA-Equivalent, 2-ft, and 3-ft Covers

Part 1 CCRs were prepared for the ICS, Shell Disposal Trenches Cover, and Basin F Cover projects to document that remedial actions have been completed, have achieved the intent of the ROD to be protective of human health and the environment when the covers are determined to be O&F, and, having been inspected by the RVO and Regulatory Agencies, are functioning as intended. Following establishment of vegetation on the covers and determination that the covers are O&F by the EPA, in coordination with the CDPHE, TCHD, and the RVO, CCRs - Part 2 will be completed that will document the O&F status of the covers. The O&F determinations will be completed in accordance with the RCRA-Equivalent, 2-, and 3-Foot Covers Long-Term Care Plan (LTCP) and are based on sufficient field inspection and monitoring data to show conformance with cover performance standards. The CCR - Part 2 and O&F determinations for ICS (including Shell Disposal Trenches) and Basin F Cover are expected in 2016.

Monthly percolation measurements for the Shell Disposal Trenches began in 2007 and for the ICS and Basin F lysimeters in December 2009. Inspections, monitoring and repairs of the covers are being conducted to ensure their integrity and protectiveness, and to meet long-term O&M requirements for the ICS and Shell Disposal Trenches covers and post-closure requirements for the Basin F cover. Enforcement of the performance standards does not begin until 2015, or at the time of successful O&F determination, whichever occurs first.

6.3 RCRA Landfill Caps

The HWL and ELF projects consisted of liner construction, landfill operations, and final cap construction; completion of each phase is documented in a separate CCR. In addition, the liner and cap construction elements required Construction Quality Assurance (CQA) Reports to document that construction activities were completed in accordance with the project design and closure requirements. Following completion of the final cap CCRs, EPA provided O&F determinations based on the information presented in the CCRs and the CQA Reports.



7.0 Operations & Maintenance Summary

This section summarizes O&M activities that are required following remedy completion for RMA landfill and cover projects, for operating groundwater systems, and for ongoing site-wide programs. For these remedy components that have ongoing and future O&M requirements, Table 7.0-1 provides the current status and indicates the general O&M activity with reference to the operating plans or other documents where detailed O&M requirements are found. Figure 7.0-1 shows the location of remedy structures remaining with O&M requirements.

7.1 RCRA Landfill Caps

The physical construction of the HWL and ELF RCRA caps is complete and these units are in the post-closure period. The HWL and ELF Post-Closure Plans (TtEC 2011d, 2010j) describe detailed O&M activities, summarized below, that must be undertaken during the post-closure period beginning at physical completion and continuing for a minimum of 30 years.

Inspection, monitoring, maintenance and repair activities will be performed to meet applicable substantive regulatory requirements specified in 6 Code of Colorado Regulations 1007-3, Section 264.552 (Subpart S), Section 265.310 (Subpart N), and Section 265.117-120 (Subpart G). These requirements include:

- Maintain the integrity of the cap, including making repairs to the cap as necessary to correct effects of settling, subsidence, erosion, or other phenomenon.
- Continue to operate the leachate collection and removal system until leachate is no longer being generated.
- Maintain and monitor the LDS in accordance with 6 CCR 1007-3, Sections 264.301(c)(3)(iv) and (4) and 6 CCR 1007-3, Section 265.304(b).
- Maintain and monitor the groundwater monitoring system.
- Prevent run on and run off from eroding or otherwise damaging the cap.

To fulfill these requirements, the following activities will be implemented during the post-closure period:

- Inspect soil cap and vegetation conditions.
- Inspect surface water controls, including trench drain outfalls at the ELF.
- Inspect the leachate collection system, leak detection system, and Leachate Storage/Loadout Facility.
- Inspect engineering controls.
- Monitor, collect, and transport leachate off-site for disposal/incineration.
- Monitor the quality of the leachate collection system, leak detection system, wastewater and groundwater.
- Perform maintenance and repair of the above-listed components as needed.



7.2 RCRA-Equivalent, 2-ft, and 3-ft Covers

The RCRA Equivalent, 2-ft, and 3-ft covers are evapotranspirative in design and function, and were constructed over the following areas:

- Basin A Consolidation and Remediation Area
- South Plants Central Processing Area
- South Plants Balance of Areas 3-ft Soil Cover
- Complex (Army) Disposal Trenches
- Shell Disposal Trenches
- Shell Disposal Trenches 2-ft Soil Cover Area
- Section 36 Lime Basins
- Basin F/Basin F Exterior (Basin F Cover) Area

Detailed O&M activities for the above-listed covers are described in the LTCP (TtEC 2008f) and are summarized below.

To protect the integrity of the covers, the following O&M activities will be implemented during the long-term care period:

- Inspect cover surfaces and vegetation conditions.
- Inspect surface water controls.
- Monitor percolation using pan lysimeters.
- Inspect engineering controls.
- Assess the status of the plant community annually.
- For the Shell Disposal Trenches cover, soil moisture monitoring will be conducted in accordance with the LTCP.
- Perform maintenance and repair of the above listed components, as needed.

Basin F Cover O&M activities are also described in the Basin F Post-Closure Plan (TtEC 2011a, draft) and have the same general O&M requirements as listed above, with the additional requirement to monitor upgradient and downgradient groundwater levels and water quality.

7.3 Groundwater Systems

O&M requirements for the groundwater systems include continued O&M of extraction and treatment systems identified in Table 7.0-1 in accordance with applicable O&M manuals. Operations following remedy completion will continue with the goal of meeting applicable CSRGs and /or Practical Quantitation Limits and ROD shut-off criteria as described in the LTMP (TtEC and URS 2010c).



Monitoring for the RMA containment and mass removal systems consists of compliance, performance, and operational monitoring. Additionally, pre-shut-off monitoring, shut-off monitoring, and post-shut-off monitoring will apply to systems that are being considered for shutdown or have been shut off. Compliance monitoring will be conducted to confirm effluent water quality meets CSRGs for the on-post and off-post treatment systems. Performance monitoring will be conducted to assess water level and water quality performance against specific performance criteria defined for each system. Operational monitoring is performed to ensure that system objectives are met and to optimize system performance of extraction, recharge, and/or monitoring wells located near the systems. Groundwater monitoring and well maintenance is performed in accordance with the LTMP. Specific treatment plant operational monitoring and maintenance programs are included in the O&M manuals for the respective systems.

Groundwater monitoring associated with the Complex (Army) Trenches, Shell Trenches, and Lime Basins containment areas include slurry walls and dewatering components to enhance containment in addition to RCRA-equivalent covers. For these sites, required water level monitoring and well maintenance following remedy completion is included in the LTMP and is conducted to evaluate the effectiveness of each remedy.

Future O&M requirements, if any, for removal or mitigation of the North Plants light non-aqueous phase liquid and the Lime Basins DNAPL groundwater contamination sites are undetermined pending completion of ongoing study and evaluation processes.

7.4 Site-Wide Programs

Ongoing site-wide monitoring programs are listed in Table 7.0-1 and will continue to operate to support the long-term assessment of remedy protectiveness.

The site-wide groundwater program incorporates on-post and off-post groundwater monitoring not included with the system-related, HWL and ELF, and Basin F cover groundwater monitoring programs. On-post water level and water quality monitoring will be conducted to assess the impact of the on-post remedy implementation on water levels and quality, flow, and contaminant migration pathways between the historical plume source areas and the RMA boundary. Off-post exceedance water quality and water level monitoring is conducted to assess contaminant concentration reduction and remedy performance, confirm flow paths, and to support the institutional controls component of the off-post remedy. Monitoring and maintenance of groundwater wells is performed in accordance with the LTMP. Site-wide well abandonment and retention continues in support of the monitoring requirements in the LTMP.

Off-post surface water monitoring will continue at two locations as described in Section 5.7.2 to evaluate the effect of groundwater treatment on surface water quality in the Off-Post OU as described in the LTMP. Management and use of surface water in support of post-remedy operations will be planned and coordinated with USFWS as needed.

Site-wide biomonitoring will continue to support the long-term assessment of remedy protectiveness in accordance with the Long-Term Contaminant Biomonitoring Program for Terrestrial Ecological Receptors (BAS 2006).



During the long-term O&M period, the potential to encounter any MPPEH at RMA is expected to be remote. If MPPEH, or remnants thereof, are discovered on RMA or the Refuge during the execution of post-remedy activities, the response actions will be in accordance with procedures developed in the RMA Response Plan for Recovered MPPEH (TtEC 2010k).

7.5 Land Use Restrictions

The Army is responsible for implementing, maintaining, reporting on, and enforcing all land use controls (LUCs) employed to minimize the potential for exposure to contaminants and protect the integrity of the remedy. During the RD/RA period, LUCs were managed in accordance with the *Interim Rocky Mountain Arsenal (RMA) Institutional Control Plan* (PMRMA 2008c). Continuing LUCs and operational requirements are shown in Table 7.0-1. Land use restrictions and prohibitions will be maintained and enforced through periodic inspections and inquiry of responsible officials as described in the *Land Use Control Plan* (RVO 2010a), which is under development and is expected to be finalized in October 2011.

General RMA access and activities management will continue to be a long-term operations requirement as described in the *Land Use Control Plan*. Access restrictions such as fences, signs, and obelisks will be maintained to ensure the integrity of the landfills and covers. These are inspected and maintained pursuant to the Long-Term Care Plan (TtEC 2008f), the Basin F Post-Closure Plan (TtEC 2011a, draft), HWL Post-Closure Plan (TtEC 2011d), and ELF Post-Closure Plan (TtEC 2010j).

Sanitary sewer markers will be inspected and maintained to ensure that the location of abandoned sanitary sewers is adequately marked. In addition, signs will be maintained to warn of the prohibition of excavation into dredged sediments from Upper and Lower Derby Lakes disposed in Section 12 (Site SSA-3b).

Ongoing protection of groundwater remediation structures including treatment facilities, extraction/recharge systems, wells, and related infrastructure is the responsibility of the Army. Off-post institutional controls include implementation of a well notification program. The Army will prepare and submit updated CSRG exceedance and well notification maps to the SEO so that the SEO can include the proper notification on well permits for off-post wells that are located in areas where contaminated groundwater might be encountered.

The Off-Post ROD requires a deed restriction that prohibits drilling new alluvial wells and use of deeper groundwater underlying the Shell Property for potable purposes until such groundwater no longer contains contamination in exceedance of groundwater CSRGs established in the ROD (HLA 1995). The deed restriction is defined in the *Declaration of Covenants among Shell, the United States, and the State of Colorado* dated February 2, 1996. The covenants were recorded by the Adams County Clerk and Recorder on June 11, 1996. These covenants "run with, and burden the land … and are enforceable by the United States, through the Army and EPA, and by the State."

8.0 Contact Information

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| | 2003h | (Jan. 16) | 2003 Work Plan Installation and Operation of Irrigation Systems. Revision 0. |
| | 2002a | (Sept. 24) | Burial Trenches Soil Remediation Project Final Construction Completion Report Part I. Revision 1. |
| - | 2002ь | (Sept.) | Stapleton International Airport Recycled Concrete Biota Barrier Material Production Report for FY02. Revision 0. |
| | 2002c | (Aug. 19) | South Plants Balance of Areas and Central Processing Area Soil Remediation Project – Phase 1 Construction Completion Report. Revision 0. |
| | 2002d | (June 18) | Summary and Evaluation of Potential Ordnance/Explosives and Recovered Chemical Warfare Materiel Hazards at the Rocky Mountain Arsenal. Final. |
| | 2002e | (May) | Borrow Areas and Priority 1 Soil Tracking Plan 2002 Update. Revision 0. |
| | 2002f | (Apr. 9) | Buried M-1 Pits Soil Remediation Project Construction Completion Report. Revision 0. |
| | 2002g | (Mar. 5) | South Plants Structure Demolition and Removal Project Phase 2 Construction Completion Report. Revision 0. |
| | 2002h | (Feb.) | Miscellaneous Northern Tier Soil Remediation Project Construction Completion Report. Revision 2. |

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| | 2002i | (Feb.) | North Plants Structure Demolition and Removal Project Groundwater Monitoring SAP (DCN-NPD-006). |
| | 2002j | (Jan. 24) | Explanation of Significant Differences for Secondary Basins B, C and D Remediation. Final. |
| | 2001a | (Nov. 6) | M139 Bomblets Destruction Completion Report and M139 Bomblets (Episode 2- June 2001) Destruction Completion Report. |
| | 2001ь | (Nov.) | Stapleton International Airport Recycled Concrete Biota Barrier Material Production Report for FY01. Revision 0. |
| | 2001c | (Sept.) | Haul Road Operations Plan Fiscal Year 2002 Annual Update. Revision 5. |
| | 2001d | (July 13) | North Plants Structures Demolition and Removal Remediation Project. 100 Percent Design Package (Appendix M, Groundwater Monitoring Sampling and Analysis Plan). Revision 0. |
| | 2001e | (July 10) | M139 Bomblets Destruction Completion Report. Revision 0. |
| | 2001f | (June) | Borrow Areas and Priority 1 Soil Tracking Plan 2001 Update. Revision 1. |
| | 2001g | (May 16) | Shell Section 36 Trenches Groundwater Barrier Project Construction Completion Report. Revision 0. |
| | 2001h | (Mar. 22) | Complex Army Trenches Groundwater Barrier Project Construction Completion Report. Revision 0. |
| | 2001i | (Mar. 21) | Hazardous Waste Landfill Phase II Project Construction Completion Report. Revision 0. |
| | 2000a | (Oct.) | Explanation of Significant Differences for Chemical Sewer Remediation (Section 35 and Section 26). |
| | 2000Ь | (Oct.) | Explanation of Significant Differences for South Plants Balance of Areas and Central Processing Area Soil Remediation Project. |
| | 2000c | (Oct.) | Haul Road Operations Plan Fiscal Year 2001 Annual Update. Revision 4. |
| | 2000d | (Sept.) | South Plants Structure Demolition and Removal Project – Phase I Final Construction Completion Report. Revision 1. |
| | 2000e | (Sept.) | CAMU Soils Remediation Completion and Support Project Construction Completion Report. Final. |
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| | 2000f | (Sept.) | Section 26 Human Health Exceedance and Biota Exceedance Soils Removal Project Construction Completion Report. Revision 0. |
| | 2000g | (Aug. 31) | Hazardous Waste Landfill Phase I Project Construction Completion Report. Revision 1. |
| • | 2000h | (Aug. 31) | Landfill Wastewater Treatment System Project Construction Completion Report. Revision 1. |
| | 2000i | (July 19) | Existing (Sanitary) Landfills Remediation Section 4 Construction Completion Report. Revision 2. |
| • | 2000j | (June) | Miscellaneous Southern Tier Soil Remediation Project Construction Completion Report. Revision 1. |
| | 2000k | (Apr. 24) | Existing (Sanitary) Landfill Remediation Section 1 Construction Completion Report. Revision 1. |
| | 20001 | (Apr.) | Borrow Areas and Priority 1 Soil Tracking Plan 2000 Update. Revision 0. |
| | 2000m | (Mar.) | Lake Sediments Remediation Project Construction Completion Report. Revision 1. |
| | 2000n | (Mar.) | Toxic Storage Yards Soil Remediation Project Construction Completion Report. Revision 0. |
| | 1999a | (Dec.) | Rocky Mountain Arsenal Long-Term Monitoring Plan for Groundwater, Final. |
| | 1999b | (Sept.) | 10-Year Irrigation Work Plan. |
| | 1999c | (July) | Drummed, Staged and Contained Waste Handling and Disposal Plan. Revision A. |
| | 1999 d | (May) | Technical Justification for Volume Modification of Toxic Storage Yards Soil Remediation Project. |
| | 1999e | (Apr.) | Borrow Areas and Priority 1 Soil Tracking Plan 1999 Update. Revision 0. |
| | 1998a | (Oct. 1) | Borrow Areas Plan, 100 Percent Report. Revision 0. |
| | 1998b | (Sept.) | Stage II Haul Roads Design Package. |
| | 1998c | (Aug.) | Stage I Haul Roads 100 Percent Design Package. |
| | 1998d | (June) | Risk Assessment for Section 4 Water Supply Wells. |

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| 1997 | (May) | South Lakes Groundwater Investigation Final Work Plan. |
| 1996a | (June) | Record of Decision for the On-Post Operable Unit. Version 3.1. (3 Volumes). |
| 1996b | (July) | Supplemental Field Study – Phase I Program Results. |
| 1996c | (Sept.) | Soil Quantity Calculation Summary Report. |
| Gannett F | leming (Ganr | nett Fleming, Inc.) |
| 2000a | , • ` | Final Acquisition and Delivery of 4,000 Acre-Feet Potable Water Supply, Completion Report. |
| 2000b | (Sept.) | Final lake Ladora Dam Reconstruction Project, Completion Report. |
| Gonzales | (Gonzales Co | onstruction Company, Inc.) |
| 1995 | | Report of Closure for Aboveground Storage Tanks. |
| HLA (Ha | rding Lawson | Associates) |
| 1996a | | Remediation Scope and Schedule for the Offpost Operable Unit, Rocky Mountain Arsenal, Commerce City, Colorado. |
| 1996b | (June) | Final Corrective Action Management Unit Designation Document, Rocky Mountain Arsenal, Commerce City, Colorado. (2 Volumes). |
| 1995 | (Dec.) | Rocky Mountain Arsenal Offpost Operable Unit, Final Record of Decision. |
| LATA/A | G&M (Los Al | amos Technical Associates/Arcadis Geraghty & Miller) |
| 1999 | (July 9) | Final RMA Off-Post Well Abandonment Construction Completion Report. |
| MKC (M | orrison Knuds | sen Corporation) |
| 1998a | | North Boundary Containment System, System Modifications for Treatment of NDMA, Construction and Startup Completion Report. |
| 19981 | (Mar.) | Construction Completion Report Chemical Process Related Activities Free Standing Tank Removal, Outside Pipeline and Equipment Removal. |
| 1998c | (Jan.) | RCRA-Equivalent Cover Demonstration Project Final Design Package. |
| PMRMA | (Program Ma | nager Rocky Mountain Arsenal) |
| 2010a | ` • | Annual Well Networks Update Summary for FY 2010. |
| 2010 | (Nov.) | Remediation Design and Implementation Schedule. |
| 2009a | ı (Dec.) | Annual Well Networks Update Summary for FY 2009. |
| 2009t | o (Mar.) | Annual Well Networks Update Summary for FY 2008. |
| 68 | | Remedial Action Summary Report Rev 0 |

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| | 2008a | (June) | Annual Well Networks Update Summary for FY 2007. |
| | 2008b | (Feb.) | Annual Well Networks Update Summary for FY 2006. |
| | 2008c | (Aug.) | Interim Rocky Mountain Arsenal Institutional Control Plan. |
| | 2006a | (Dec.) | Well Networks Update Annual Summary April 2004 through September 2005. |
| | 2006b | (June) | Management Plan for Protection and Monitoring of Lake Ladora, Lake Mary, and Lower Derby Lake during RMA Remediation. |
| | 2006с | (Mar. 9) | Decision Document DD-GWTF-07. Status of Groundwater Treatment Facilities at the Rocky Mountain Arsenal Federal Facility Site, Commerce City, Colorado. |
| | 2003 | (June) | Refinement of Remediation Areas for Surficial Soil and Reduction of Residual Biota Risk, Rocky Mountain Arsenal, Colorado. |
| | 1997 | (May) | Design Refinement of Excavation Boundaries for Surficial Soil and Reduction of Residual Biota Risk, Rocky Mountain Arsenal, Colorado. |
| | 1996a | (Dec. 9) | Remediation Design and Implementation Schedule. |
| | 1996b | (Dec.) | Evaluation of a Short-Term and Long-Term On-Post Water Supply Alternative Final Report. |
| Pu | blic Law | 102-402 | |
| | 1992 | (Oct.) | Rocky Mountain Arsenal National Wildlife Refuge Act of 1992. |
| PV | VT (Pacif 2006 | ic Western (Mar.) | Technologies, Ltd.) Rocky Mountain Arsenal Trust Fund Work Group Summary of Work. |
| RV | O (Reme | ediation Ve | nture Office) |
| | 2010a | (Nov.) | Land Use Control Plan. Draft. |
| | 2010b | (Sept. 21) | RMA Incident and Emergency Management Policy and Contingency Plan. Revision 0. |
| | 2008 | (June) | Surface Water Quality Monitoring Report for the Rocky Mountain Arsenal. Draft Final. |
| .* | 2007a | (Mar. 1) | Contingent Soil Volume Procedure. (RVO SOP: RVOP.009.P-Revision 3). |
| | 2007b | (Mar.) | Contingent Soil Volume Procedure Sampling and Analysis Plan. Revision 3. |

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| | 2006a | (Mar.) | Existing (Sanitary) Landfill Remediation Section 1 Construction Completion Report Addendum 1. Revision 1. |
| | 2006b | (Mar.) | Miscellaneous Northern Tier Soil Remediation Project Construction Completion Report Addendum 1. Revision 1. |
| | 2006с | (Mar.) | Miscellaneous Southern Tier Soil Remediation Project Construction Completion Report Addendum 1. Revision 1. |
| - | 2006d | (Feb.) | Section 26 Human Health Exceedance and Biota Exceedance Soils Removal Project Construction Completion Report Addendum 1. Revision 1. |
| | 2004 | (Aug.) | Biota Barrier Material Issues Resolution Agreement. |
| | 2003a | | Surface Water Quality Monitoring Report for the Rocky Mountain Arsenal. |
| | 2003b | (Jan. 14) | Administrative Area Asbestos Remediation Projects Final Construction Completion Report. Revision 4. |
| | 2002 | (Sept. 24) | Complex Army Trenches Groundwater Barrier Project, Groundwater Barrier/ Groundwater Extraction System Operational and Functional Report, Final. |
| | 2001a | (Nov. 1) | Explanation of Significant Differences for Endrin Containment System Remediation Goal in On- and Off-Post Records of Decision for Rocky Mountain Arsenal Federal Facility Site. |
| | 2001b | (Apr. 23) | Documentation of "Non-Significant or Minor" Record of Decision (ROD) Change at Rocky Mountain Arsenal (RMA) of the CSRGs for the NWBCS. |
| | 2000 | (Dec.) | Biota Barrier Material Issues Resolution Agreement. |
| | 1998a | (Sept. 30) | Corrective Action Management Unit (CAMU) Soil Remediation Construction Completion Report. Final. |
| | 1998b | (Aug. 17) | CAMU/Basin A Well Abandonment Project Construction Completion Report. |
| | 1998c | (Aug. 3) | Sanitary and Chemical Sewer Plugging Project Construction Completion Report. |
| | 1998d | (July 1) | Agreement Summary on Comparative Analysis and Field Demonstration Design Scope of Work for the Rocky Mountain Arsenal Resource Conservation and Recovery Act (RCRA)-Equivalent Cover Demonstration Project. |

| 1998e | (July) | Final RCRA-Equivalent Cover Demonstration Project Comparative Analysis and Field Demonstration Design Scope of Work. |
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| 1997 | (Aug.) | Final Inspection/Implementation Report for the Off-Post Tillage Task Rocky Mountain Arsenal. |
| SC&A (San 1998 | | & Associates) Final Report, Geophysical Screening Activities and Results. |
| TtEC (Tetra | Tech EC Ir | nc.) |
| 2011a | (July 29) | Basin F Post-Closure Plan. Revision F. |
| 2011b | (June 3) | Miscellaneous RMA Structure Demolition and Removal Project – Phase IV and SQI Extension Sanitary Sewer Manhole Plugging Construction Completion Report. Revision 0. |
| 2011c | (Mar.) | Chemical Warfare Material Response After-Action Report. Revision 0. |
| 2011d | (Mar. 16) | Hazardous Waste Landfill Post-Closure Plan. Revision 3. |
| 2011e | (Feb. 17) | Landfill Wastewater Treatment System (LWTS) Closure Project Construction Completion Report. Revision B. |
| 2010a | (Dec. 31) | Explanation of Significant Differences for Basin F/Basin F Exterior Remediation Project. Revision 0. |
| 2010b | (Dec. 2) | Enhanced Hazardous Waste Landfill Final Cap Construction Project Construction Completion Report. Revision 0. |
| 2010c | (Oct. 27) | Site-Wide PM-10 Monitoring Program Addendum to the Air Monitoring Completion Report. Revision 0. |
| 2010d | (Sept. 9) | Integrated Cover System Project (Basin A, Complex Army Trenches, Lime Basins, Shell Disposal Trenches, South Plants) Subgrade and Cover Construction, Construction Completion Report – Part 1. Revision 0. |
| 2010e | (Aug. 19) | Basin F/Basin F Exterior Remediation Project Part 2 (Basin F Cover Project) Construction Completion Report. Revision 0. |
| 2010f | (Aug. 18) | Section 36 Lime Basins Soil Remediation Project Slurry/Barrier Wall Construction, Construction Completion Report. Revision 0. |
| 2010g | (Aug.) | Final Borrow Areas and Residual Ecological Risk Soil Update. Revision 0. |
| 2010h. | (June 3) | Hazardous Waste Landfill Final Cap Construction Project Construction Completion Report. Revision 0. |

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| | 2010i | (June 24) | Munitions Response After-Action Report. Revision 0. |
| | 2010j | (May 20) | Enhanced Hazardous Waste Landfill Post-Closure Plan. Revision 0. |
| | 2010k | (May) | Response Plan for Recovered Material Potentially Presenting an Explosive Hazard (MPPEH). Revision 0. |
| | 20101 | (May) | 2010 Vegetation Management Plan. Revision 0. |
| | 2009a | (Nov. 20) | Section 36 Balance of Areas Soil Remediation Project – Part 2 Construction Completion Report. Revision 0. |
| | 2009ь | (Nov. 19) | Air Monitoring Completion Report, Final. Revision 0. |
| | 2009c | (Nov. 5) | Miscellaneous RMA Structure Demolition and Removal Project – Phase III Construction Completion Report. Revision 0. |
| | 2009d | (Nov. 5) | South Plants Balance of Areas and Central Processing Area Soil Remediation Project – Phase 2, Part 1 and Part 2 Construction Completion Report. Revision 1. |
| | 2009e | (Sept. 10) | Explanation of Significant Differences for Section 36 Balance of Areas Soil Remediation Project. Revision 0. |
| | 2009f | (July 22) | Basin A Consolidation and Remediation Project Construction Completion Report. Revision 0. |
| • | 2009g | (July) | Site-Wide Traffic Management FY 2010 Site-Wide Traffic Management Plan. Revision 14. |
| | 2009h | (June) | Residual Ecological Risk Soil Remediation – Part 2 Construction Completion Report. Revision 0. |
| : | 2009i | (June 2) . | 2009 Vegetation Management Plan. Revision 0. |
| `. | 2009j | (May 7) | Secondary Basins Soil Remediation Project NCSA-2d (Basin B Drainage Ditch) Contingent Soil Volume (CSV) Construction Completion Report. Revision 0. |
| 2 | 2009k | (May) | Borrow Areas and Residual Ecological Risk Soil Tracking Plan 2009 Update. Revision 0. |
| 2 | 20091 | (Apr. 30) | Odor Monitoring Completion Report, Final. Revision 0. |
| 2 | 2009m | (Apr. 27) | Site-Wide Traffic Management Road and Laydown Area Removal Plan. Revision 0. |
| • 2 | 2009n | (Apr. 14) | Explanation of Significant Differences for the Basin F Wastepile Remediation Project. Revision 0. |

Munitions (Testing) Soils Remediation Project Construction Completion 2009o (Apr. 6) Report Part IV. Revision 2. (Mar. 31) Enhanced Hazardous Waste Landfill and Facilities Operations Project 2009p Construction Completion Report. Revision 0. (Mar. 12) Basin F Principal Threat Soil Remediation Project & Basin F Wastepile 2009a Drying Facility Demolition Construction Completion Report. Revision (Feb. 13) Section 36 Balance of Areas Soil Remediation Project - Part 1 2009r Construction Completion Report. Revision 0. Explanation of Significant Differences for Basin F/Basin F Exterior 2009s (Jan. 6) Remediation Project - Part 2 (Basin f Cover) and Chemical Sewer Remediation. Revision 0. (Dec. 10) Sanitary Sewer Manhole Plugging Project - Phase II Final Construction 2008a Completion Report. Revision 0. (Dec. 10) Explanation of Significant Differences for North Plants Soil 2008b Remediation Project. Revision 0. (Nov. 19) Shell Disposal Trenches Remediation Project RCRA-Equivalent Cover 2008c Subgrade Construction, RCRA-Equivalent Cover Soil Stockpiling, and RCRA-Equivalent Cover Construction, Construction Completion Report. Revision 0. Explanation of Significant Differences for Munitions (Testing) Soil 2008d (Nov. 3) Remediation Project. Revision 0. (Oct. 28) Basin F/Basin F Exterior Remediation Project - Part 1 Phase 2 2008e Construction Completion Report. Revision 0. RCRA-Equivalent, 2-, and 3-Foot Covers Long-Term Care Plan. 2008f (Sept. 9) Revision 1. (Aug. 19) Explanation of Significant Differences for Off-Site Waste Disposal and 2008g Cost Increases for On-Site Disposal Facilities Projects. Revision 0. Site-Wide Traffic Management FY 2009 Site-Wide Traffic Management 2008h (Aug.) Plan. Revision 13. Sand Creek Lateral: Miscellaneous Southern Tier Soil Remediation 2008i (June 11) Project and Section 35 Soil Remediation Project Construction Completion Report. Revision 0.

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| | 2008j | (May 20) | Basin F Wastepile Remediation Project Construction Completion Report. Revision 0. |
| | 2008k | (Apr. 14) | Minor Change to the On-Post Record of Decision for Soil Covers, Rocky Mountain Arsenal, Fact Sheet. |
| | 20081 | (Apr. 9) | Explanation of Significant Differences for the Sand Creek Lateral and Other Ditches Remediation, Miscellaneous Southern Tier Soil Remediation Project and Section 35 Soil Remediation Project. Revision 0. |
| | 2008m | (Apr. 9) | Munitions (Testing) Soil Remediation Project Construction Completion Report Part II. Revision 1. |
| | 2008n | (Apr. 30) | 2008 Vegetation Management Plan. Revision 0. |
| | 2008o | (Mar. 18) | Data Summary Report for Confirmatory Soil Samples for Haul Roads, Basin D and E Berms, and SAR Sites NCSA-2d and SPSA-9a. Revision 0. |
| | 2008p | (Mar. 10) | Munitions (Testing) Soils Remediation Project Construction Completion Report Part III. Revision 1. |
| | 2008q | (Mar.) | Borrow Areas and Residual Ecological Risk Soil Tracking Plan 2008 Update. Revision 0. |
| | 2008r | (Feb. 12) | Complex (Army) Disposal Trenches Remediation Project Subgrade Construction, Construction Completion Report. Revision 0. |
| | 2007a | (Dec. 21) | North Plants Soil Remediation Project Interim Free Product and Groundwater Characterization Data Summary Report. Revision 0. |
| | 2007ь | (Nov. 13) | Hazardous Waste Landfill and Facilities Operations Project Construction Completion Report. Revision 1. |
| | 2007с | (July) | Site-Wide Traffic Management FY 2008 Site-Wide Traffic Management Plan. Revision 12. |
| | 2007d | (June) | Borrow Areas and Residual Ecological Risk Soil Tracking Plan 2007 Update. Revision 0. |
| | 2007e | (June 25) | 2007 Vegetation Management Plan. Revision 1. |
| | 2006a. | (Nov.) | Site-Wide Traffic Management Plan Fiscal Year 2007 Annual Update. Revision 10a. |
| | 2006b | (Oct. 31) | Enhanced Hazardous Waste Landfill Liner Construction Project Construction Completion Report. Revision 0. |



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| | 2006с | (May 5) | Explanation of Significant Differences for the Shell Disposal Trenches Remediation Project. Revision 0. |
| | 2006d | (May 1) | 2006 Vegetation Management Plan. Revision 0. |
| | 2006e | (Mar. 31) | Explanation of Significant Differences for Groundwater Remediation and Revegetation Requirements. Revision 0. |
| | 2006f | (Mar. 13) | Residual Ecological Risk Soil Remediation Construction Completion Report. Revision 0. |
| | 2006g | (Mar. 9) | Miscellaneous RMA Structure Demolition and Removal Project – Phase II Construction Completion Report. Revision 1. |
| | 2006h | (Feb.) | Haul Road Operations Plan Fiscal Year 2006 Annual Update. Revision 10. |
| | 2005a | (Nov. 1) | Basin F/Basin F Exterior Remediation Project - Part 1 Final Construction Completion Report. Revision 0. |
| | 2005b | (Oct. 31) | Amendment to the Record of Decision for the On-Post Operable Unit, Rocky Mountain Arsenal Federal Facility Site, Section 36 Lime Basins Remediation, Basin F Principal Threat Soil Remediation. Revision 0. |
| | 2005c | (July 28) | Section 30 Existing (Sanitary) Landfills Remediation Project Construction Completion Report. Revision 1. |
| | 2005d | (May 9) | Explanation of Significant Differences for Existing (Sanitary) Landfills Soil Remediation Project. Revision 0. |
| | 2005e | (Apr.) | Borrow Areas and Residual Ecological Risk Soil Tracking Plan 2005 Update. Revision 0. |
| | 2005f | (Apr.) | Former Stapleton and Denver International Airport Recycled Concrete Biota Barrier Material Production Report for FY02. Revision 0. |
| Т | tEC and I | IRS (Tetra | Tech EC, Inc. and URS Corporation) |
| | 2011 | | Lime Basins Dense Non-Aqueous Liquid (DNAPL) Feasibility Study (FS) Report. Final. Revision 1. |
| | 2010a | (Sept. 21) | Lime Basins Dense Non-Aqueous Liquid (DNAPL) Remedial Investigation Summary Report. Final. |
| | 2010b | (Mar. 29) | Lime Basins Dense Non-Aqueous Liquid (DNAPL) Remedial Investigation/Feasibility Study (RI/FS) Work Plan. Final. |
| | 2010c | (Mar. 3) | Rocky Mountain Arsenal Long-Term Monitoring Plan for Groundwater and Surface Water, Final. |
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| TtFW (Tetra Tech FW Is | nc.) | .) |
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- 2005a (Apr. 15) 2005 Vegetation Management Plan. Revision 0.
- 2005b (Jan. 20) 2005 Work Plan Installation and Operation of Irrigation Systems. Revision 0.
- 2004a (Dec. 3) North Plants Soil Remediation Project Petroleum Release Evaluation Report. Revision 0.
- 2004b (Dec.) Haul Road Operations Plan Fiscal Year 2005 Annual Update. Revision 9.
- 2004c (Nov. 23) Well Networks Update For Retention and Closure, Water Year 2004.
- 2004d (Nov.) Stapleton International Airport Recycled Concrete Biota Barrier Material Production Report for FY04. Revision 0.
- 2004e (Oct.) Water Supply Well Design Support Pumping Test Report. Revision 0.
- 2004f (Sept. 28) North Plant Structure Demolition and Removal Remediation Project and Destruction of Equipment in the GB Production Fill Facilities Project Construction Completion Report. Revision 1.
- 2004g (Sept. 27) Burial Trenches Soil Remediation Project Final Construction Completion Report Part II. Revision 0.
- 2004h (Sept. 24) Explanation of Significant Differences for North Plants Structure Demolition and Removal Project. Revision 0.
- 2004i (Aug.) Borrow Areas and Residual Ecological Risk Soil Tracking Plan 2004 Update. Revision 1.
- 2004j (June 29) North Plants Soil Remediation Project Petroleum-Impacted/Stained Soils Final Data Summary Report. Revision 0.
- 2004k (June 9) Explanation of Significant Differences for Burial Trenches Soil Remediation Project. Revision 0.
- 20041 (June 8) Hex Pit Soil Remediation Project [Redesign] Construction Completion Report. Revision 0.
- 2004m (May 13) Secondary Basins Soil Remediation Project Construction Completion Report. Revision 1.
- 2004n (Apr. 13) Section 35 Soil Remediation Project Construction Completion Report. Revision 1.

| | 2004o | (Apr. 9) | Section 36 Existing (Sanitary) Landfills Remediation Project Construction Completion Report. Revision 0. |
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| | 2004p | (Mar. 26) | Munitions (Testing) Soil Remediation Project Construction Completion Report. Revision 5. |
| | 2004q | (Mar.) | Haul Road Removal Plan. Revision 0. |
| | 2004r | (Mar. 3) | 2004 Vegetation Management Plan. Revision 0. |
| | 2004s | (Feb.) | Stapleton International Airport Recycled Concrete Biota Barrier Material Production Report for FY03. Revision 0. |
| | 2004t | (Jan.) | Haul Road Operations Plan Fiscal Year 2004 Annual Update. Revision 8. |
| | 2004u | (Jan.) | 2004 Work Plan Installation and Operation of Irrigation Systems. Revision 0. |
| Г | VA (Tenn | essee Valle | v Authority) |

Final Report for the Sampling, Decontamination, and Dismantling 1998 (May) Operations of the Buildings in the North and South Plants at Rocky Mountain Arsenal.

URS (URS Corporation)

- Rocky Mountain Arsenal Motor Pool Extraction Component of the 2011a (Sept.) Irondale Containment System Shut-Off Monitoring Completion Report.
- 2011b North Plants Pilot Light Non-Aqueous Phase Liquid Removal Action (Apr.) Evaluation Report. Final.
- 2011c (Feb. 24) Groundwater Mass Removal Project Construction Completion Report. Revision C.
- 2010 Groundwater Sampling Procedure. Revision 4.1. (Feb.)

URS and TtEC (URS Washington Division and Tetra Tech EC, Inc.)

2009 (Feb. 13) North Plants Pilot Light Non-Aqueous Phase Liquid Removal System Action Plan for Rocky Mountain Arsenal. Revision 1.

USFWS (U.S. Fish and Wildlife Service)

- 2010a (Oct.) Rocky Mountain Arsenal 2009 Annual Biomonitoring Report. Final.
- Rocky Mountain Arsenal 2007 and 2008 Annual Biomonitoring Report. 2010b (Feb.) Final.
- Letter from Bruce Hastings to Laura Williams Regarding Rocky 2010c (Jan. 28) Mountain Arsenal Status of Revegetation Acceptance.

| 1999 | (Aug.) | Habitat Restoration Plan for Rocky Mountain Arsenal National Wildlife Refuge. |
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| USGS (U.S | S. Geologica | l Survey Water Resources Division Colorado District RMA Office) |
| 2004 | (Mar.) | Final South Lakes Groundwater Monitoring Report, June 1, 2001 – May 31, 2003. |
| 2001 | (May) | Rocky Mountain Arsenal South Lakes Sampling and Analysis Plan for Groundwater. |
| WGI (Was | hington Gro | up International, Inc.) |
| 2008a | _ | Landfill Wastewater Treatment System Modification Construction Completion Report. Revision 1. |
| 2008Ь | (Mar. 2) | Section 36 Bedrock Ridge Groundwater Plume Extraction System Construction Completion Report. Revision 6. |
| 2006 | (Mar. 2) | Explanation of Significant Differences for the Section 36 Bedrock Ridge Groundwater Plume Extraction System. Revision 1. |
| 2005 | (Sept. 21) | Termination of Operations at the Groundwater Intercept and Treatment System North of Basin F Well Construction Completion Report. Final. |
| 2003 | (Apr. 8) | Irondale Containment System, Shut-Down for the Irondale Extraction System, Final Construction Completion Report. Revision 0. |
| 2001 | (Nov.) | Rocky Mountain Arsenal RCRA-Equivalent Cover Demonstration Project, Final Project Report. Draft. |
| 2000 | (Sept. 8) | Interior Building Chemical Related Activities for South Plants Construction Completion Report. Revision 1. |

TABLES

Table 2.0-1 Summary of Interim Response Actions

| Interim Response Action | Objective | Status | IRA Completion Report | Approval Date |
|--|--|---|---|---|
| Groundwater Intercept and Treatment System North of Rocky Mountain Arsenal | Capture and treat contaminated groundwater plumes north of RMA. | Construction completed 1993; treatment is ongoing as part of ROD implementation. | EPA & Army 2000k | October 19, 2000 |
| Improvement of the North Boundary System and Evaluation of all Existing Boundary Systems: a. North Boundary System b. Northwest Boundary Containment System c. Irondale Containment System | Evaluate and improve, as necessary, the operation of the boundary containment and treatment systems. | North Boundary System construction completed 1990; Northwest Boundary Containment System and Irondale Containment System construction completed 1993; treatment/monitoring ongoing as part of ROD implementation. | a. EPA & Army 2000a b. EPA & Army 2000b c. EPA & Army 1997a | a. October 19, 2000 b. October 19, 2000 c. October 19, 2000 |
| Groundwater Intercept and Treatment System North of Basin F | Capture and treat contaminated groundwater north of the Basin F area closer to its source. | Construction completed 1990; treatment completed as part of ROD implementation (WGI 2005). | EPA & Army 2000g | October 19, 2000 |
| 4. Closure of Abandoned Wells at Rocky Mountain Arsenal | Identify, locate, examine, and properly close old or unused wells at RMA to prevent vertical migration of contamination between aquifers. | Completed 1991. | EPA & Army 2000v | August 23, 2000 |
| 5. Groundwater Intercept and Treatment System in the Basin A Neck Area | Capture and treat shallow contaminated groundwater from Basin A closer to the source area. | Construction completed 1990; treatment is ongoing as part of ROD implementation. | EPA & Army 2000f | October 19, 2000 |
| 6. Basin F Liquids, Sludges, and Soils Remediation a. Element 1, Basin F Wastepile b. Element 2, Basin F Liquid | Construct wastepile and cap to minimize the potential for infiltration of contaminants to groundwater and the potential for volatile emissions; reduce the potential impact of Basin F on wildlife; incinerate Basin F liquids; close Submerged Quench Incinerator system. | Containment of sludges/soil completed in 1989; incineration of liquids completed 1995; Submerged Quench Incinerator closed 1996. Wastepile removed as part of ROD implementation (TtEC 2008j). | a. EPA & Army 2000c b. EPA & Army 2000d | a. October 19, 2000 b. October 19, 2000 |
| 7. Building 1727 Sump Liquid | Treat contaminated liquid in the sump. | Completed 1990. | EPA & Army 2000p | August 23, 2000 |

Table 2.0-1 Summary of Interim Response Actions

| Interim Response Action | Objective 1.43 | Status | IRA Completion Report | Approval Date |
|--|---|--|---|--|
| 8. Closure of the Hydrazine Facility | Treat decontamination rinseate stored at this facility; demolish and dispose of the aboveground structures. | Completed 1992. | EPA & Army 2000e | October 19, 2000 |
| 9. Fugitive Dust Control | Minimize the amount of windblown contaminated dust. | Application completed 1988; reapplications completed in 1991 and 1993. | EPA & Army 2000o | August 23, 2000 |
| 10. Sanitary Sewers Remediation | Plug the RMA sanitary sewers to eliminate the transport of contaminated groundwater. | Completed 1992. | EPA & Army 1998 | October 19, 2000 |
| 11. Asbestos Remediation | Remove and dispose of friable asbestos in RMA structures where any potential for human exposure exists. | Interim actions conducted through 1998. Remaining actions completed as part of ROD implementation. | EPA & Army 2000n | September 29, 2000 |
| 12. Remediation of Other Contamination Sources: a. Motor Pool Area b. Rail Classification Yard c. Lime Settling Basins d. South Tank Farm Plume e. Army (Complex) Disposal Trenches f. Shell Section 36 Trenches g. M-1 Settling Basins | Minimize or eliminate releases from selected contamination sources. | Motor Pool treatment/monitoring continued as part of ROD implementation; Rail Classification Yard extraction system is ongoing as part of ROD implementation; Lime Settling Basins completed in 1993; South Tank Farm Plume completed in 1994; Army Trenches completed in 1994 with groundwater monitoring continuing as part of ROD implementation; Shell Trenches completed in 1991; M-1 Basins action terminated in 1993. | a. EPA & Army 1997c b. EPA & Army 1997b c. EPA & Army 2000r d. EPA & Army 2000m e. EPA & Army 2000i f. EPA & Army 2000h g. EPA & Army 2000j | a. October 19, 2000 b. October 19, 2000 c. August 23, 2000 d. October 19, 2000 e. October 19, 2000 f. October 19, 2000 g. October 19, 2000 |

Table 2.0-1 Summary of Interim Response Actions

| Interim Response Action | Objective | Status | IRA Completion Report | Approval Date |
|--|---|---|--|---|
| 13. CERCLA Liquid Wastes:a. Wastewater Treatment Systemb. Waste Managementc. Polychlorinated Biphenyls (PCB)d. Waste Storage | Construct and operate a facility to treat wastewater resulting from response actions; identify disposal options for hazardous wastes; inventory, sample, and remediate PCB-contaminated structures and soil; analyze temporary management of bulk hazardous wastes. | Construction of treatment plant completed in 1992; liquid treatment and waste management completed; PCB interim actions completed in 1996, remaining actions completed as part of ROD implementation; waste storage analysis completed; treatment plant demolished in 2010. | a. EPA & Army 2000s b. EPA & Army 2000t c. EPA & Army 20001 d. EPA & Army 2000u | a. August 23, 2000 b. August 23, 2000 c. October 19, 2000 d. August 23, 2000 |
| 14. Chemical Process-Related Activities: Agent Equipment and Tanks Nonagent Equipment and Tanks Underground Storage Tanks | Remove and dispose of contaminated process related equipment from manufacturing areas. | Underground Storage Tanks completed in 1996. Phase I Chemical Process Equipment Removal (Exterior) completed Jan 98. Remaining actions completed as part of ROD implementation. | EPA & Army 2000q WGI 2000 | August 23, 2000 |
| Other Response Actions: 1. Klein Water Treatment Plant 2. Deep Disposal Well Closure | Construct and operate a facility to treat chlorinated solvent contaminated groundwater extracted by South Adams County Water and Sanitation District wells west of RMA. Properly seal and abandon deep injection well adjacent to Basin F. | Construction of treatment plant completed 1989; became part of the Chemical Sales Company Superfund Site. Completed in 1985. | 1. EPA & Army 1999b 2. EPA & Army 1999a | 1. October 19, 2000 2. October 19, 2000 |

| WBS | Description |
|---------|--|
| 1 | Pre-ROD Activities |
| 2 | On-Post OU |
| 2.01 | Disposal Facilities - Basin A/Landfills |
| 2.01.01 | Construct Hazardous Waste Landfill |
| 2.01.02 | Construction of Enhanced Hazardous Waste Landfill |
| 2.01.03 | Basin A Consolidation and Remediation |
| 2.02 | Early Start Projects |
| 2.02.04 | Sanitary Sewer Manhole Plugging – Phase I |
| 2.02.05 | Chemical Sewer Plugging (South Plants Central Processing Area and Complex Army Trenches) |
| 2.02.06 | Shell/Complex (Army) Disposal Trenches Slurry Walls |
| 2.02.07 | Post-ROD Removal Actions for Structures |
| 2.03 | Phase I – Outlying Areas |
| 2.03.08 | Toxic Storage Yards Soil Remediation |
| 2.03.09 | Existing (Sanitary) Landfills Remediation |
| 2.03.10 | Lake Sediments Remediation |
| 2.03.11 | Burial Trenches Soil Remediation |
| 2.03.12 | Munitions (Testing) Soil Remediation |
| 2.03.13 | Miscellaneous Northern Tier Soil Remediation |
| 2.03.14 | Miscellaneous Southern Tier Soil Remediation |
| 2.03.15 | Section 36 Bedrock Ridge Groundwater Barrier Plume Extraction System |
| 2.03.16 | South Plants Structure Demolition and Removal |
| 2.03.17 | Miscellaneous RMA Structure Demolition and Removal |
| 2.04 | Phase II – South Plants Area |
| 2.04.18 | Buried M-1 Pits Soil Remediation |
| 2.04.19 | Hex Pit Soil Remediation |
| 2.04.20 | South Plants Balance of Areas and Central Processing Area Soil Remediation - Phase II |
| 2.04.21 | South Plants Balance of Areas and Central Processing Area Soil Remediation - Phase I |
| 2.05 | Phase III – Sections 35 and 36 Sites |
| 2.05.22 | Sanitary Sewer Manhole Plugging – Phase II |
| 2.05.23 | Section 36 Balance of Areas Soil Remediation |
| 2.05.24 | Secondary Basins Soil Remediation |
| 2.05.25 | Complex (Army) Disposal Trenches Remediation – Cover |
| 2.05.26 | Shell Disposal Trenches Remediation – Cover |
| 2.05.27 | North Plants Soil Remediation - Cover |
| 2.05.28 | Section 35 Soil Remediation |
| 2.05.29 | North Plants Structure Demolition and Removal |
| 2.06 | Phase IV – Basin F/Lime Basins |
| 2.06.30 | Basin F Wastepile Remediation |
| 2.06.31 | Former Basin F Principal Threat Soil Remediation |

Table 3.0-1 Work Breakdown Structure

| WBS | Description | | | | |
|---------|--|--|--|--|--|
| 2.06.32 | Basin F and Basin F Exterior Remediation | | | | |
| 2.06.33 | Section 36 Lime Basins Soil Remediation | | | | |
| 2.07 | Site-Wide Programs | | | | |
| 2.07.34 | RCRA-Equivalent Cover Demonstration Project | | | | |
| 2.07.35 | Вогтоw Areas | | | | |
| 2.07.36 | Structural Agent Treatment Facility | | | | |
| 2.07.37 | Soil Agent Treatment Facility | | | | |
| 2.07.38 | Site-Wide Biota Monitoring – Biological Advisory Committee | | | | |
| 2.07.39 | Site-Wide Air Monitoring – Air Pathway Analysis | | | | |
| 2.07.40 | Contingent Soil Volume | | | | |
| 2.07.41 | Site-Wide Plume Monitoring | | | | |
| 2.07.42 | Confined Flow System Monitoring | | | | |
| 2.07.43 | Medical Monitoring Program | | | | |
| 2.07.63 | Site-Wide Traffic Management (Haul Roads) | | | | |
| 2.07.64 | Site-Wide Geophysical Investigation | | | | |
| 2.07.65 | Unexploded Ordnance Disposal | | | | |
| 2.07.66 | Biota Barrier Material | | | | |
| 2.07.67 | Permanent Revegetation/Irrigation | | | | |
| 2.07.68 | Drummed Waste Handling (Plan Development Only) | | | | |
| 2.07.69 | Well Abandonment/Retention Program | | | | |
| 2.08 | Water Treatment/Monitoring | | | | |
| 2.08.44 | SACWSD Water Supply/Henderson Distribution Line and Hook-ups | | | | |
| 2.08.45 | On-Post Water Supply | | | | |
| 2.08.46 | Confined Flow System Well Closures | | | | |
| 2.08.47 | Irondale Containment System | | | | |
| 2.08.48 | Basin A Neck System | | | | |
| 2.08.49 | CERCLA Wastewater Treatment Facility | | | | |
| 2.08.50 | Northwest Boundary Containment System | | | | |
| 2.08.51 | North Boundary Containment System | | | | |
| 2.08.52 | South Lakes Plume Management | | | | |
| 2.08.77 | Groundwater Mass Removal | | | | |
| 2.08.78 | North Plants LNAPL Recovery | | | | |
| 2.08.79 | Lime Basins DNAPL Investigation | | | | |
| 2.09 | Remediation Venture Office | | | | |
| 2.09.54 | Program Management | | | | |
| 2.09.55 | Remedy Support and Operations | | | | |
| 2.09.56 | Remedy Execution | | | | |
| 2.09.57 | USFWS | | | | |
| 2.09.58 | Program Controls | | | | |
| 2.09.59 | Public Outreach | | | | |

Table 3.0-1 Work Breakdown Structure

| WBS | Description |
|---------|---|
| 2.09.72 | CERCLA 5-Year Review Report |
| 2.10 | Program Management |
| 2.10.54 | Program Management |
| 2.10.55 | Remedy Support and Operations |
| 2.10.56 | Remedy Execution |
| 2.10.57 | USFWS |
| 2.10.58 | Program Controls |
| 2.10 | Closeout Reporting |
| 2.12.70 | RMA Remedial Action Summary Report |
| 3 | Off-Post OU |
| 3.11.60 | Off-Post Surficial Soil |
| 3.11.61 | Off-Post Water Treatment Facility |
| 3.11.62 | Off-Post Well Closures |
| 4 | Long-Term Operations |
| 4.01 | Caps and Covers |
| 4.01.01 | Hazardous Waste Landfill |
| 4.01.02 | Enhanced Hazardous Waste Landfill |
| 4.01.03 | Integrated Cover System |
| 4.01.04 | Basin F Cover |
| 4.02 | Water Treatment Systems |
| 4.02.05 | North Boundary System |
| 4.02.06 | Northwest Boundary System |
| 4.02.07 | Basin A Neck System |
| 4.02.08 | Rail Yard |
| 4.02.09 | Off-Post Water Treatment Facility |
| 4.03 | Site-Wide Programs |
| 4.03.10 | Site-Wide Plume Monitoring |
| 4.03.11 | Medical Monitoring Program |
| 4.03.12 | Well Abandonment/Maintenance |
| 4.03.13 | Analytical Coordination |
| 4.03.14 | Five-Year Reviews/Closeout Reports |
| 4.03.15 | Land Use Control Monitoring/Reporting |
| 4.03.16 | RMA Facility Operations and Maintenance |
| 4.03.17 | RMA Facility Operations - IJOs |
| 4.03.18 | Operations Waste Management |
| 4.04 | O&M Program Management |
| 4.04.19 | Regulatory Oversight |
| 4.04.20 | Data Management/Information systems |
| 4.04.21 | Remedy Operations Oversight |
| 4.04.22 | Utilities |

| WBS | Description |
|---------|--|
| 4.04.23 | Land Transfers |
| 4.04.24 | Operations and Maintenance Contractor Management |
| 4.04.25 | USFWS Support |
| 4.04.26 | Program Controls |
| 4.04.27 | Health and Safety |
| 4.04.28 | Security |
| 4.04.29 | Public Outreach |
| 4.04.30 | Contracting |
| 4.04.31 | Compliance/Quality Assurance |
| 4.04.32 | Central Repository/Business Management |
| 4.04.33 | Legal Office |
| 4.04.34 | Program Manager |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|--|---|-----------------------------|---|----------------------|
| 2.01.01 | Hazardous Waste Landfill | NA | Construct a RCRA- and Toxic Substances Control Act-compliant hazardous waste landfill on post. | TtEC 2008g | FWENC 2000g FWENC 2000h FWENC 2001i TtEC 2007b TtEC 2010h TtEC 2011e, draft | Yes |
| | NCSA-4b P1 Soil: Borrow 5 P1 Soil: Borrow 7a P1 Soil: Corrective Active Management Unit | Surficial Soil Residual Ecological Risk (RER) Soil RER Soil RER Soil | Excavate and landfill Human Health Exceedance (HHE) soil. Excavate biota risk soil and consolidate beneath Basin A cover. | | RVO 1998a RVO 1998b FWENC 2000e FWENC 2000f RVO 2006d | No |
| 2.01.02 | Enhanced Hazardous Waste Landfill | NA | Construct a triple-lined RCRA- and Toxic Substances Control Act -compliant hazardous waste landfill on post. | TtEC 2008g | TtEC 2006b WGI 2008a TtEC 2009p TtEC 2010b | Yes |
| 2.01.03 | Basin A Consolidation and Remediation NCSA-1a NCSA-1e NCSA-1c | Basin A Basin A Ditches/Drainage Areas | Consolidation of soil posing a potential risk to biota and structural debris from other sites. Construction of a RCRA-Equivalent cover including biota barrier over the principal threat and HHE soil and soil posing a potential risk to biota. | TtEC 2008k | RVO 1998a RVO 1998b TtEC 2009f TtEC 2010d ¹ | Yes |
| 2.02.04 | Sanitary Sewer Plugging Phase I | Sanitary Sewers | Plug sanitary sewer manholes to prohibit access and eliminate the manholes as a potential migration pathway for contaminated groundwater. Post aboveground warning signs every 1,000 ft along the sewer lines to indicate their location underground. | | RVO 1998c | Yes |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|--|---|---|-----------------------------|---|----------------------|
| 2.02.05 | Chemical Sewer Plugging CSA-3 SPSA-10 | Chemical Sewers | Plug chemical sewer voids within South Plants Central Processing Area and Complex (Army) Trenches area. The plugged sewers are contained beneath the RCRA-equivalent cover in their respective site. | | RVO 1998c | No |
| 2.02.06 | Complex (Army) Trenches and Shell Trenches Slurry Walls | Complex (Army) Trenches Shell Trenches | Install slurry wall into competent bedrock around the disposal trenches. Dewatering within the slurry wall to ensure containment. | | FWENC 2001h FWENC 2001g RVO 2002 | Yes |
| 2.02.07 | Post-ROD Removal Actions for Structures | Structures | Process-related equipment not remediated as part of the Chemical Process-Related Activities IRA will be disposed in the onpost hazardous waste landfill. | | MKC 1998b WGI 2000 RVO 2003b | No |
| 2.03.08 | Toxic Storage Yards ESA-3a ESA-3b ESA-3g | Toxic Storage Yards | Excavate and landfill HHE soil. Perform agent screening during excavation. | FWENC 1999d | FWENC 2000n | No |
| 2.03.09 | Existing (Sanitary) Landfills CSA-1d CSA-2d ESA-2b P1 Soil: Borrow 7b P1 Soil: Section 1 SSA-4 WSA-2 WSA-3c WSA-5 | Sanitary Landfills Munitions Testing Sanitary Landfills RER Soil RER Soil Sanitary Landfills Sanitary Landfills Sanitary Landfills Sanitary Landfills | Excavate and landfill HHE soil. Excavate landfill debris and biota risk soil and consolidate beneath Basin A cover. | TtEC 2005d | FWENC 2000i FWENC 2000k TtFW 20040 TtEC 2005c RVO 2006a | No |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|--------------------|---|-----------------------------|-----------------------------|----------------------|
| 2.03.10 | Lake Sediments | | | | | |
| | SSA-1b | Lake Sediments | Excavate and landfill HHE soil. Excavate | | FWENC 2000m | No |
| | SSA-1c | | biota risk soil and consolidate beneath Basin A cover. | | | |
| 2.03.11 | Burial Trenches | | | | | |
| | ESA-2a | Burial Trenches NA | Locate UXO using geophysical survey; | TtFW 2004k | FWENC 2002a | No |
| | ESA-2c | | remove and detonate. Remove and landfill munitions debris. Excavate and landfill HHE soil. Perform agent screening during excavation of ESA-2c. | | TtFW 2004g | |
| | BT4-01 | | | | | |
| | BT4-02 | | | | | |
| | BT4-03 | | | | | |
| | BT4-04 | | | | | |
| | BT4-05 | | | | | |
| | BT4-06 | | | | | |
| | BT4-07 | | | | | |
| | BT4-08 | | | | | |
| | BT4-09 | | | | | |
| | BT4-10 | | | | | |
| | BT4-11 | | | | | |
| | BT4-12 | | | | | |
| | BT4-13 | | | | | |
| | BT4-14 | | | | | |
| | BT4-15 | | | | | |
| | BT6-01 | | | | | |
| | BT6-02 | | | | | 1 |
| | BT9-01 | | | | | |
| | BT20-1 | | | | | |
| | BT29-01 | | | | | |
| l | BT29-02 | | | | | |
| ı | BT30-01 | | | | | |
| | BT32-01 | | | | | |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|--------------------|--|-----------------------------|-----------------------------|----------------------|
| | BT32-02 | | | | | |
| | BT32-03 | | | | | |
| | BT32-04 | | | | | |
| | BT32-05 | | | | | |
| | BT32-06 | | | | | İ |
| | BT32-07 | | | | | |
| | BT32-08 | | | | | 1 |
| | BT32-09 | | | | | |
| | BT32-10 | | | | | |
| | BT32-11 | | | | | |
| | BA10 | | | | | |
| 2.03.12 | Munitions Testing | | | | | |
| | CSA-2c | Munitions Testing | Locate UXO using geophysical survey; | TtEC 2008d | TtFW 2004p | No |
| | ESA-1a | | remove and detonate. Remove and landfill | | TtEC 2008m | |
| | ESA-1b | | munitions debris. | | TtEC 2008p | |
| | ESA-1c | | | | TtEC 2009o | |
| | ESA-1d | | | | | |
| | ESA-4a | | | | | |
| | ESA-4b | | | | | |
| | BA10 | NA | | | | |
| | BA9a P2 | RER Soil | | | | |
| | BT32-10 | NA | | | | |
| | DREZ | NA | | | | |
| | MT29-1 | NA | | | | |
| 2.03.13 | Miscellaneous Northern Tier Soil | | | 1000 | | |
| | NCSA-8b | Sand Creek Lateral | Excavate and landfill HHE soil. Excavate | | FWENC 2002h | No |
| | NPSA-4 | Sand Creek Lateral | biota risk soil and consolidate beneath | | RVO 2006b | |
| | Pistol Range | Surficial Soil | Basin A cover. | | 11.02000 | |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|--|---|-----------------------------|---|----------------------|
| 2.03.14 | Miscellaneous Southern Tier Soil Fisherman's Parking Lot Rifle Range SSA-1b SSA-2a SSA-2b SSA-2c SSA-3b WSA-1f WSA-6a | RER Soil Surficial Soil Lake Sediments Sand Creek Lateral Sand Creek Lateral Ditches/Drainage Areas Buried Sediments Sand Creek Lateral Sand Creek Lateral | Excavate and landfill HHE soil. Excavate biota risk soil and consolidate beneath Basin A cover. | TtEC 20081 | FWENC 2000j RVO 2006c TtEC 2008i | Yes |
| 2.03.15 | Section 36 Bedrock Ridge Extraction System | Groundwater | Install extraction system and treat extracted groundwater at Basin A Neck System. | WGI 2006 | WGI 2008b | Yes |
| 2.03.16 | South Plants Structure Demolition and Removal | Agent History Significant Contamination History Other Contamination History | All No Future Use structures will be demolished. Agent History and Significant Contamination History Group structural debris will be disposed in the on-site hazardous waste landfill. Other Contamination History Group structural debris will be used as grade fill in Basin A. | | FWENC 2000d FWENC 2002g TtEC 2009d | No |
| 2.03.17 | Miscellaneous RMA Structures | Agent History Significant Contamination History Other Contamination History | All No Future Use structures will be demolished. Agent History and Significant Contamination History Group structural debris will be disposed in the on-site hazardous waste landfill. Other Contamination History Group structural debris will be used as grade fill in Basin A. | | FWENC 2003a TtEC 2006g TtEC 2009c TtEC 2011b | No |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|---|--|-----------------------------|--|----------------------|
| 2.04.18 | Buried M-1 Pits SPSA-1e | Lime Basins | Excavate Principal Threat (PT) and HHE soil, stabilize, and landfill. Perform treatability testing to determine the mixture of stabilization agents, verify the effectiveness of the treatment process, and establish operating parameters for the design of the full-scale operation. Perform agent screening during excavation. | | FWENC 2002f | No |
| 2.04.19 | Hex Pit SPSA-1f | Disposal Trenches | Excavate and landfill PT and HHE soil. | FWENC 2003e | TtFW 20041 | No |
| 2.04.20 | South Plants Central Processing Area SPSA-1a SPSA-10 P1 Soil: Borrow 11 | South Plants CPA Chemical Sewers RER Soil | Excavate principal threat and HHE soil to a depth of 5 ft and landfill. Perform agent screening during excavation. Foundations within human health soil areas are removed to a depth of 5 ft. Construct a RCRA-Equivalent cover including biota barrier over the remaining principal threat and HHE soil and soil posing a potential risk to biota. Soil posing a potential risk to biota from other portions of South Plants may be used as backfill and/or gradefill prior to placement of the soil cover. | FWENC 2000b TtEC 2008k | FWENC 2002c TtEC 2009d TtEC 2010d ¹ | Yes |
| 2.04.21 | South Plants Balance of Areas SPSA-1d SPSA-2d SPSA-3a SPSA-4a SPSA-9a SPSA-10 | South Plants Ditches Chemical Sewers | Locate UXO using geophysical survey; remove and detonate. Excavate and landfill chemical sewer lines, principal threat and HHE soil, and polychlorinated biphenyl-contaminated soil. Perform agent screening during excavation. Remove and landfill munitions debris. Excavate biota risk soil | FWENC 2000b | FWENC 2002c TtEC 2009d TtEC 2010d ¹ | Yes |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|------------------------|---|-----------------------------|-----------------------------|----------------------|
| | SPSA-12b | South Plants BOA | and consolidate under the South Plants | | | |
| | SPSA-1c | | Central Processing Area cover or use as backfill for excavated areas. Construct a 3- | | | |
| | SPSA-1g | | ft-thick soil cover over the former HHE | | | |
| | SPSA-2a | | areas. Sample former biota risk soil areas | | | |
| | SPSA-2b | | to verify contaminant of concern | | | _ |
| | SPSA-2c | | concentrations do not exceed site evaluation criteria. Backfill former biota | | | |
| | SPSA-2e | | risk soil areas with minimum 1-ft-thick | | | |
| | SPSA-3b | | clean soil. | | | |
| | SPSA-3c | | | | | |
| | SPSA-3d | | | | | |
| | SPSA-3e | | | | | |
| | SPSA-4b | | | | | |
| | SPSA-5b | | | | | 1 |
| | SPSA-6 | | | | | |
| | SPSA-7c | | | | | |
| | SPSA-8a | | | | | |
| | SPSA-8b | | | | | |
| | SPSA-9b | | | | | |
| 2.05.22 | Sanitary Sewer Plugging Phase II | Sanitary Sewers | Plug sanitary sewer manholes to prohibit access and eliminate the manholes as a potential migration pathway for contaminated groundwater. Post aboveground warning signs every 1,000 ft along the sewer lines to indicate their location underground. | | TtEC 2008a TtEC 2011b | Yes |
| 2.05.23 | Section 36 Balance of Areas | | | | | 1 |
| | CSA-1b | Section 36 BOA | Locate UXO using geophysical survey; | FWENC 2003d | TtEC 2009r | Yes |
| | CSA-1d | Ditches/Drainage Areas | remove and detonate. Remove and landfill | TtEC 2009e | TtEC 2009a | |
| | CSA-2a | Section 36 BOA | munitions debris. Excavate and landfill chemical sewer lines and HHE soil. | | | |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|------------------------|---|-----------------------------|---|----------------------|
| | CSA-2b | Ditches/Drainage Areas | Perform agent screening during | | | |
| | CSA-3 | Chemical Sewers | excavation. Excavate biota risk soil and consolidate beneath Basin A cover. | | | - |
| | CSA-4 | Section 36 BOA | consolidate beneath Basin A cover. | | | |
| | NCSA-1b | Lime Basins | | | | |
| | NCSA-1c | Ditches/Drainage Areas | | | |] |
| | NCSA-1d | Ditches/Drainage Areas | | | | |
| | NCSA-1f | Ditches/Drainage Areas | | | | |
| | NCSA-1g | Section 36 BOA | | | | |
| | NCSA-6a | Chemical Sewers | | | | |
| | NCSA-6b | Chemical Sewers | | | | |
| | P1 Soil: | RER Soil | | | | |
| | Surface Soil | Surficial Soil | | | | |
| 2.05.24 | Secondary Basins | | | | | |
| | NCSA-2a | Secondary Basins | Excavate and landfill HHE soil. Excavate | FWENC 2002j | TtFW 2004m | No |
| | NCSA-2b | Secondary Basins | biota risk soil and consolidate beneath | | TtEC 2009j | : |
| | NCSA-2d | Sand Creek Lateral | Basin A cover. | | |] |
| | NCSA-4b | Surficial Soil | | | | |
| | P1 Soil: | RER Soil | | | | |
| | Surface Soil | Surficial Soil | | | | |
| 2.05.25 | Complex (Army) Disposal Trenches CSA-1c | Disposal Trenches | Construct a RCRA-equivalent cover including biota barrier over the entire site. | TtEC 2008k | TtEC 2008r TtEC 2010d ¹ | Yes |
| 2.05.26 | Shell Disposal Trenches | | | | | |
| | CSA-1a | Disposal Trenches | Modify the existing soil cover to be a RCRA-equivalent cover including a biota barrier. Construct a 2-ft-thick soil cover over impacted soil areas adjacent to the Shell Disposal Trenches. | TtEC 2006c | TtEC 2008c ¹ TtEC 2010d ¹ | Yes |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|---|---|-----------------------------|-----------------------------|----------------------|
| 2.05.27 | North Plant Soil | | | | | |
| | NPSA-1 | Chemical Sewers | Excavate and landfill chemical sewer lines | TtEC 2008b | TtFW 2004f | No |
| | NPSA-3 | North Plants Soil | and HHE soil. Excavate biota risk soil and | | | |
| | NPSA-5 | North Plants Soil | consolidate beneath Basin A cover. | | | |
| | NPSA-6 | North Plants Soil | | | | |
| | NPSA-8c | Ditches/Drainage Areas | | | | |
| | NPSA-9f | Ditches/Drainage Areas | | | | |
| 2.05.28 | Section 35 Soil | | | | | |
| | NCSA-1c | Ditches/Drainage Areas | biota risk soil and consolidate beneath | FWENC 2000a | TtFW 2004n TtEC 2008i | No |
| | NCSA-5a | Secondary Basins | | FWENC 2002j TtEC 2008l | | |
| | NCSA-5b | Sand Creek Lateral | | | | |
| | NCSA-5c | Sand Creek Lateral | | | | |
| | NCSA-5d | Ditches/Drainage Areas | | | | |
| | NCSA-6a | Chemical Sewers | | | | |
| | P1 Soil: | RER Soil | | | | |
| | Surface Soil | Surficial Soil | | | | |
| 2.05.29 | North Plant Structures Demolition and Removal | Agent History Other Contamination History | All No Future Use structures will be demolished. Agent History and Significant Contamination History Group structural debris will be disposed in the on-site hazardous waste landfill. Other Contamination History Group structural debris will be used as grade fill in Basin A. | TtFW 2004h | TtFW 2004f | No |
| 2.06.30 | Basin F Wastepile | Basin F Wastepile | Excavate wastepile PT soil and liner materials and dispose in triple-lined landfill. | TtEC 2009n | TtEC 2008j | No |
| 2.06.31 | Basin F Principal Threat Soil | | | | | |
| | NCSA-3 | Basin F | Excavate principal threat soil and dispose in triple-lined landfill. | TtEC 2005b | TtEC 2009q | No |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|--|--|---|---------------------------------------|----------------------|
| 2.06.32 | Basin F/Basin F Exterior NCSA-3 NCSA-6a | Basin F Chemical Sewers | Construct a RCRA-Equivalent cover including biota barrier over the entire former basin and the remaining chemical sewer. | TtEC 2008k TtEC 2009s FWENC 2000a | TtEC 2010e ¹ | Yes |
| | NCSA-4a NCSA-4b NCSA-5c | Secondary Basins Surficial Soil Sand Creek Lateral | Excavate and landfill HHE soil. Excavate biota risk soil and consolidate beneath Basin A cover or Basin F cover. | TtEC 2010a | TtEC 2005a TtEC 2008e | No |
| 2.06.33 | Section 36 Lime Basins NCSA-1b | Lime Basins | Construct a RCRA-Equivalent cover including biota barrier over the former basins. Install slurry wall into competent bedrock around the disposal basins. Perform agent screening during slurry wall construction. Dewatering within the slurry wall to ensure containment. | TtEC 2005b TtEC 2008k | TtEC 2010f TtEC 2010d ¹ | Yes |
| 2.07.34 | RCRA-Equivalent Cover Demonstration Project | NA | Demonstrate cap performance equivalent to a RCRA landfill cap according to an EPA- and state-approved demonstration that will include comparative analysis and field demonstration. | | WGI 2001 (draft) Section 5.1 | No |
| 2.07.35 | Borrow Areas | NA | None. On-post borrow area development and management required for remedy support. Continued monitoring, as part of design refinement, for areas that may pose a potential risk to biota (also discussed under 2.07.38). | | Section 5.2 TtEC 2006f TtEC 2009h | No |
| 2.07.36 | Structural Agent Treatment Facility | Structures | Treatment by caustic washing for all debris testing positive for the presence of agent. | | Section 5.3 TtFW 2004f | No |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|------------------|--|-----------------------------|--|----------------------|
| 2.07.37 | Soil Agent Treatment Facility | Soil | Treatment by caustic washing for all excavated soil testing positive for the presence of agent. | | Section 5.4 | No |
| 2.07.38 | Site-Wide Biota Monitoring | Biota | Continued monitoring, as part of design refinement, for areas that may pose a potential risk to biota. Water levels in Lake Ladora, Lake Mary, and Lower Derby Lake will be maintained to support aquatic ecosystems. The biological health of the ecosystems will continue to be monitored. Aquatic sediments are left in place and the area is monitored to ensure that the sediments continue to pose no unacceptable risk to aquatic biota. Continue to fund USFWS to conduct on-post wildlife monitoring programs. | PMRMA 1997 PMRMA 2003 | TtEC 2006f TtEC 2009h PMRMA 2006b Section 5.5 | No |
| 2.07.39 | Site-Wide Air Monitoring | Air | Continue to conduct air, groundwater, and surface water monitoring programs at RMA. | | TtEC 2009b TtEC 2009l TtEC 2010c | No |
| 2.07.40 | Contingent Soil Volume | Soil | Excavate and landfill up to 150,000 bank cubic yards of additional volume to be identified based on visual field observations. An additional 14 samples from North Plants, Toxic Storage Yards, Lake Sediments, Sand Creek Lateral, and Burial Trenches and up to 1,000 additional confirmatory samples may be used to identify the contingent soil volume requiring excavation. | | Section 5.6 | No |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|---------------------------|--|-----------------------------|---|----------------------|
| 2.07.41 | Site-Wide Groundwater Monitoring and Surface Water Monitoring (includes off-post monitoring) | Groundwater Surface Water | Continue to conduct air, groundwater, and surface water monitoring programs at RMA. A network of monitoring wells will be sampled to evaluate the effectiveness of the remedy. A select number of deep wells will also be sampled to monitor any contamination in the confined aquifer. Surface water will be monitored and managed in a manner consistent with the selected remedy. | | Ongoing Section 5.7 TtEC and URS 2010c | Yes |
| 2.07.42 | Confined Flow System Monitoring | Groundwater | Confined aquifer wells are monitored in the South Plants, Basin A, and Basin F areas. Combined with Site-Wide Groundwater Monitoring (2.07.41) | | Ongoing Section 5.7 TtEC and URS 2010c | Yes |
| 2.07.43 | Medical Monitoring Advisory Group Medical | NA | The Army and Shell will fund Agency for Toxic Substances and Disease Registry to conduct an RMA Medical Monitoring Program in coordination with CDPHE. The program's nature and scope will include baseline health assessments and be determined by the on-post monitoring of remedial activities to identify exposure pathways, if any, to any off-post community. | | Section 5.8 | No |
| 2.07.63 | Traffic Management | NA | None. Site-wide haul road construction, maintenance, and traffic management required for remedy support. | | Section 5.9 | No |
| 2.07.64 | Geophysical Screening | NA | Areas outside the central portions of RMA that are suspected to have potential UXO presence are screened and cleared. | | Section 5.10 | No |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|------------------|--|-----------------------------|-----------------------------|----------------------|
| 2.07.65 | UXO Disposal | NA | Any UXO encountered during remediation will be excavated and transported off post for detonation (unless the UXO is unstable and must be detonated on post) or other demilitarization process. | | Section 5.11 | No |
| 2.07.66 | Biota Barrier Material | NA | No specific ROD requirement. Construction of landfill caps and RCRA- equivalent covers required material for biota barrier. | | Section 5.12 | No |
| 2.07.67 | Permanent Revegetation / Irrigation | NA | Remedy components for all sites include reconditioning the surface soil and revegetating areas disturbed during remediation with locally adapted perennial vegetation. The disturbed areas will be revegetated consistent with a USFWS refuge management plan. | TtEC 2006e | Section 5.13 | No |
| 2.07.68 | Drummed Waste Handling | NA | Stored, drummed waste identified in the waste management element of the CERCLA Hazardous Waste IRA may be disposed in the on-post hazardous waste landfill in accordance with the CAMU Designation Document. | | Section 5.14 | No |
| 2.07.69 | Site-Wide Well Abandonment/ Retention | Groundwater | No specific ROD requirement. Wells not identified for long-term monitoring requirements are abandoned. | | Section 5.15 | Yes |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|------------------|---|-----------------------------|--|----------------------|
| 2.08.44 | South Adams County Water Supply | NA | Provision of \$48.8 million held in trust to provide for the acquisition and delivery of 4,000 acre-feet of potable water to South Adams County Water and Sanitation District and the extension of the water-distribution lines from an appropriate water supply distribution system to all existing well owners within the disopropylmethyl phosphonate (DIMP) plume footprint north of RMA as defined by the detection limit for DIMP of 0.392 parts per billion (ppb). | | Black & Veatch 1998 Gannett Fleming 2000a | No |
| | | | In compliance with National Environmental Policy Act, PMRMA will separately evaluate the potential impacts to the environment of both the acquisition of a water supply for South Adams County Water and Sanitation District and for extension of water-distribution lines. | | ERO 1998a | No |
| | | | In the future, owners of any domestic wells, new or existing, found to have DIMP concentrations of 8 ppb (or other relevant Colorado Basic Standard for Groundwater (CBSG) at the time) or greater will be connected to a water-distribution system or provided a deep well or other permanent solution. | | NA RVO 2011 | Yes |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|------------------|---|---------------------------------------|--|----------------------|
| 2.08.45 | On-Post Water Supply | NA | A sufficient on-post water supply will be maintained to support remedial actions (revegetation, habitat enhancement, maintenance of lake levels). A risk evaluation will be performed prior to any future non-potable use to ensure that such use is protective of human health and the environment. | | PMRMA 1996b Gannett Fleming 2000b TtFW 2004e FWENC 1998d Section 5.16 | No |
| 2.08.46 | Confined Flow System Well Closure | Groundwater | Close and seal monitoring wells installed in the confined aquifer that may represent pathways for migration from the unconfined aquifer. | | Dames & Moore 2000 | No |
| 2.08.47 | Irondale System | Groundwater | Continue operation of boundary system until shut-off criteria are met. | ESD pending | EPA & Army 1997a ² WGI 2003 | Yes |
| | Railyard Motor pool | | Continue operation of existing IRA systems until shut-off criteria are met. | ESD pending | EPA & Army 1997b ² URS 2011a | Yes |
| 2.08.48 | Basin A Neck System | Groundwater | Continue operation of existing IRA systems until shut-off criteria are met. | RVO 2001a ESD pending | EPA & Army 2000f ² | Yes |
| | North of Basin F Well | | | | WGI 2005 | No |
| 2.08.49 | CERCLA Wastewater Treatment Facility | NA | Continue operation of the CERCLA Wastewater Treatment Plant to support the remediation activities. | | TtEC 2011b | No |
| 2.08.50 | Northwest Boundary System | Groundwater | Continue operation of boundary system until shut-off criteria are met. | RVO 2001a RVO 2001b ESD pending | EPA & Army 2000b ² | Yes |
| 2.08.51 | North Boundary System | Groundwater | Continue operation of boundary system until shut-off criteria are met. | RVO 2001a ESD pending | EPA & Army 2000a ² | Yes |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|------------------|---|-----------------------------|---|----------------------|
| | | | Monitoring and assessment of n- nitrosodimethylamine contamination will be performed in support of design refinement/design characterization to achieve remediation goals specified for the boundary groundwater treatment systems. | | MKC 1998a | No |
| 2.08.52 | South Lakes Plume Monitoring | Groundwater | Lake-level maintenance or other means of hydraulic containment or plume control will be used to prevent South Plants plumes from migrating into the lakes at concentrations exceeding CBSGs in groundwater at the point of discharge. Groundwater monitoring will be used to demonstrate compliance. | TtEC 2006e | NA (lake level maintenance requirement eliminated by ESD; long-term plume monitoring continues) | Yes |
| 2.08.53 | Storm Water Management | NA | None. Site-wide storm water management in support of remedy. | | NA | No |
| 2.08.77 | Groundwater Mass Removal System | Groundwater | Perform additional source treatment in targeted areas. Extract contaminated groundwater from the South Tank Farm Plume and the South Plants North Plume in the vicinity of the Lime Basins. Treat extracted groundwater at the CERCLA Wastewater Treatment Facility and recharge treated groundwater in the vicinity of the extraction well fields. | TtEC 2006e | URS 2011c (draft) | TBD |
| 2.08.78 | North Plants LNAPL Recovery | Groundwater | NA. Remedy requirements to be determined following pilot study. | TBD | TBD | TBD |
| 2.08.79 | Lime Basins DNAPL Investigation | Groundwater | NA. Remedy requirements to be determined following RI/FS. | ESD pending | TBD | TBD |

Table 3.0-2 Summary of ROD Requirements and Completion Documentation for On-Post OU

| WBS | WBS Description (Implementation Project [with SAR Site] or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|------|---|------------------|--|-----------------------------|-------------------------------------|----------------------|
| 2.09 | Remediation Design and Implementation Schedule | NA | Within 180 days after issuance of the Notice of Availability for the ROD, the Army will append to the ROD a complete, detailed schedule for completion of activities associated with the selected remedy. The schedule will identify the enforceable project milestone dates for design activities. Future design documents will detail milestone dates for implementation activities. Revisions to this schedule will be initiated prior to the start of each fiscal year to allow adequate time for review and concurrence by the Parties. | | PMRMA 1996a PMRMA 2010 | No |
| 2.09 | CERCLA Five-year Reviews | NA | In accordance with CERCLA, a review will be performed a minimum of every 5 years after initiation of remedial action to ensure that the various remedial actions where contamination continues to exist, such as the capped areas or the hazardous waste landfill, remain protective of human health and the environment and comply with Applicable or Relevant and Appropriate Requirements. | | Army 2000 Army 2007 Army 2011 | Yes |
| 2.09 | Land Use Restrictions | NA | Continued restrictions on land use are included as an integral component of the remedy. | | RVO 2011, draft PMRMA 2008c | Yes |
| 2.10 | Trust Fund | NA | Form a Trust Fund group and provide a good-faith best effort to establish a Trust Fund for the operation and maintenance of the remedy. | | PWT 2006 Section 5.17 | No |

¹Citation provided is for the CCR – Part 1, which documents completion of physical construction of the coves. A CCR – Part 2 will be prepared to document final project completion following an O&F determination for the covers.

²Citation provided is for the IRA Summary Report. A final CCR will be prepared for each system once remediation goals have been achieved for that system.

Table 3.0-3 Summary of ROD Requirements and Completion Documentation for Off-Post OU

| WBS | WBS Description (Implementation Project or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|------------------------------|--|-----------------------------|---|----------------------|
| 3.11.60 | Off-Post Surficial Soil | Soil | Revegetate (tilling and seeding) approximately 160 acres located in the southeast portion of Section 14 and the southwest portion of Section 13. | | RVO 1997 | No |
| 3.11.61 | Off-Post Water Treatment Facility | Groundwater | Continue operation of the Off-post Groundwater Intercept and Treatment System until shut-off criteria are met. | RVO 2001a | EPA & Army 2000k ¹ | Yes |
| 3.11.62 | Off-Post Well Closure | Groundwater | Abandon groundwater wells completed in one or more aquifers below the alluvial aquifer that may represent pathways for migration between aquifers. | | LATA/AG&M 1999 | No |
| 2.07.41 | Site-Wide Groundwater Monitoring and Surface Water Monitoring | Groundwater Surface Water | Long-term monitoring of off-post groundwater and surface water to assess contaminant concentration reduction and remedy performance. Groundwater monitoring will continue utilizing both monitoring wells and private drinking water wells. Selected surface-water monitoring locations will be included to evaluate the effect of groundwater treatment on surface water quality (included with on-post sitewide monitoring). | | Section 5.7 TtEC and URS 2010c | Yes |
| 2.08.44 | South Adams County Water Supply | NA | Exposure control/provision of alternate water supply. As part of the On-Post ROD, provide for the acquisition and delivery of 4,000 acre-feet of potable water to South Adams County Water and Sanitation District and the extension of the water-distribution lines from an appropriate water supply distribution system to all existing well owners within the diisopropylmethyl phosphonate (DIMP) plume footprint north of RMA as defined by the detection limit for DIMP of 0.392 parts per billion (ppb). In the future, owners of any domestic wells, new or existing, found to have DIMP concentrations of 8 ppb (or other relevant CBSG at the time) or greater will be connected to a water-distribution system or provided a deep well or other permanent solution. | | Black & Veatch 1998 Gannett Fleming 2000 ERO 1998a ERO 1998b | No |

| WBS | WBS Description (Implementation Project or Program Element) | ROD Medium Group | ROD Requirement | ROD Change Documentation | Completion Documentation | Long- Term O&M |
|---------|---|---------------------|--|-----------------------------|-------------------------------------|----------------------|
| 2.08.50 | Northwest Boundary System | Groundwater | Continue operation of boundary system until shut-off criteria are met (also part of On-Post ROD). | RVO 2001a ESD pending | EPA & Army 2000b ¹ | Yes |
| 2.08.51 | North Boundary System | Groundwater | Continue operation of boundary system until shut-off criteria are met (also part of On-Post ROD). | RVO 2001a ESD pending | EPA & Army 2000a ¹ | Yes |
| | | | Monitoring and assessment of n- nitrosodimethylamine contamination (using a 20 part per trillion method detection limit) will be performed in support of design refinement/design characterization to achieve remediation goals specified for the boundary groundwater treatment systems (also part of On-Post ROD). | | MKC 1998a | |
| 2.09 | Institutional Controls | Groundwater | Institutional controls to prevent the future use of groundwater exceeding remediation goals. | | RVO 2011 PMRMA 2008c | Yes |
| 2.09 | Remediation Scope and Schedule | NA | The Army will present the scope of the ongoing groundwater monitoring programs in an Implementation Plan to be submitted within 90 days following issuance of the Off-Post ROD. A schedule for compliance with the containment system remediation goals will be included in the Implementation Plan. | | HLA 1996a | No |
| 2.09 | CERCLA Five-year Reviews | NA | In accordance with CERCLA, a site review will be conducted at least every five years until groundwater containment system remediation goals are achieved to assure that human health and the environment are protected during and after remediation. The site review will use monitoring program data to assess whether additional remedial action would be warranted. | | Army 2000 Army 2007 Army 2011 | Yes |

¹Citation provided is for the IRA Summary Report. A final CCR will be prepared for each system once remediation goals have been achieved for that system.

| | | | | Human Health So | il (bcy) | Biota Risk Soil (bey) | | | Munitions De | ebris/Soil (bcy) | Sanitary La | ndfill Debris (bcy) | RER Soil (bcy) |
|----------|------------------------|----------------------|------------------|------------------|----------------------|-----------------------|------------------|----------------------|---------------|------------------|---------------|---------------------|------------------|
| WBS | Implementation Proj | ect SARSite | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | ROD Volume | Actual Volume | Actual Volume |
| 2.01.01 | Hazardous Waste Lan | dfill | | | | | | | | | | | •• |
| • | | NCSA-4b: CAMU | 0 | 0 | 0 · | 211,503 | 274,862 | 0 | 0 | . 0 | 0 | 0 | 0 |
| | | NCSA-4b: Sec26 | 12,667 | 13,718 | . 0 | 0 | 4,032 | 5,128 | 0 | . 0 | 0 | 0 | 0 |
| | ٠. | North Contractor Lot | 0 | 0 | .0 | 0 | 0 | . 0 | 0 | - 0 | 0 | 0 | 16,795 |
| | | P1:Borrow12 | 0 | 0 | 0. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44,271 |
| | | P1:CAMU | 0 | 0 | 0 | 0 | . 0 | Ó | 0 | 0 | 0 | 0 | 254,584 |
| | | RCRA Test Plots | . 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 3,931 |
| | Project | Totals | 12,667 | 13,718 | 0 | 211,503 | 278,894 | 5,128 | 0 | . 0 | 0 | 0 | 319,581 |
| 2.01.02 | Enhanced Hazardous | Waste Landfill | y ^a s | | | · | | | | . · | | | |
| | | P1:Section25 | 0 | 0 | . 0 | 0 - | . 0 | 0 | 0 | .0 | 0 | 0 | 3,222 |
| | Project | Totals | 0 / | 0 | 0 | 0 | 0 | 0., | 0 | 0 | 0 | . 0 | 3,222 |
| 2.03.08. | Toxic Storage Yards S | Soil Remediation | | | | | | - | | | | | |
| | | ESA-3a | 2,112 | 4,400 | 0 | 0 | 0 | . 0 | • . 0 | 0 | 0 | 0 | . 0 |
| | | ESA-3b | 314 | 738 | 0 | . 0 | 0 | 0 | . 0 | 2,040 | . 0 | 0 | 0 |
| | | ESA-3g | 279 | 626 | 0 | . 0 | 0 | 0 | 0 | . 0 | . 0 | 0 | 0 |
| • | Project | Totals | 2,705 | 5,764 | 0 | 0 | 0 | 0 | 0 | 2,040 | . 0 | 0 | 0 |
| 2.03.09 | Existing (Sanitary) La | ndfills Remediation | | | | | | | | | | · : | |
| | | CSA-1d | 2,348 | 2,963 | 0 | 22,051 | 38,766 | 0 | 0 | . 0 | 48,800 | 36,640 | 3,125 |
| | | CSA-2d | 0 | . 0 | 0 | . 0 | 0 | 0 | 395 | 708 | 0 | 0 | 0 |
| | | ESA-2b | 745 | 874 | 0 | 0 | 0 | . 0 | 0 | 0 | 220,500 | 143,515 | 0 |
| | | P1:Section1 | 0 | 0 | 0 | 0 | 0 · | 0 | 0 | 0 | 0 | 0 | 11,930 |
| | | SSA-4 | 3,483 | 3,650 | 208 | 915 | 1,470 | 1,666 | 0 | 0 | 0 | 0 | 0 |
| | , | WSA-2 | 3,299 | 4,876 | 0 | 0 | 0 | 0 . | 0 · | 0 | 55,900 | 12,918 | . 0 |
| | • | WSA-3c | 448 | 625 | 552 | 0 . | 0 | 0 | 0 | 0 | . 0: | 0 | 0 |
| | | WSA-5 | 4,000 | 5,489 | 15 | 0 | . 0 | 0 | 0 | 0 | 57,900 | 30,247 | 0 |
| | Project | Totals | 14,323 | 18,477 | 775 | 22,966 | 40,236 | 1,666 | 395 | 708 | 383,100 | 223,320 | 15,055 |
| 2.03.10 | Lake Sediments Reme | diation | | | | | | | | • | | | |
| | | SSA-1b | 9,506 | 8,322 | 157 | 18,948 | 15,043 | 0 | 0 | .0 | 0 | 0 | . 0 |
| | • | SSA-1c | 6,852 | 9,490 | 0 | 0 · | 0 | 0 | 0 | 0 | . 0 | 0 | 0 |
| | Project | Totals | 16,358 | 17,812 | 157 | 18,948 | 15,043 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | rage 2 of 8 |
|----------------------------------|-------------|---------------|------------------|----------------------|---------------|------------------|----------------------|---------------------------------------|------------------|---------------|---------------------------------------|------------------|
| • | | | man Health So | , | | Biota Risk Soil | (bcy) | · · · · · · · · · · · · · · · · · · · | ebris/Soil (bcy) | Sanitary Land | fill Debris (bcy) | RER Soil (bcy) |
| WBS Implementation Project | SARSite | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | ROD Volume | Actual Volume | Actual Volume |
| 2.03.11 Burial Trenches Soil Ren | nediation | | · · · | | • | | | | | | · · · · · · · · · · · · · · · · · · · | · |
| • | BA10Asphalt | 0 | 0 | 0 | 0 | 0 | . 0 | . 0 | 1,872 | 0 | 0 | 0 |
| | BT20-01 | 0 | 6,203 | 0 | 0 | 247 | 12 | 0 | . 0 | . 0 | 0 | 0 |
| | BT29-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 867 | 0 | 0. | 0 |
| | BT29-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 0 · | 0 | 0 |
| | BT30-01 | 0 | 0 - | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 118 | 0 |
| · | BT32-01 | 0 | 0 | 0 | 0 | · 0 | . 0 | 0 | 1,560 | 0 | 0 | 0 |
| | BT32-02 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 1,568 | 0 | 0 | 0 |
| | BT32-03 | . 0 | 0 | . 0 | 0 | . 0 | 0 | 0 | 1,870 | 0 | 0 , | . 0 |
| | BT32-04 | 0 | 0 | 0 | .0 | 0 | 0 | 0 | 126 | 0 | 0 | 0 |
| | BT32-05 | 0 | 0 | . <u>.</u> 0 | 0 | 0 | 0 | 0 | 1,161 | 0 | . 0 | . 0 |
| | BT32-06 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 4,511 | . 0 | 0 | 0 |
| | BT32-07 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | 6,113 | 0 - | •0 | 0 |
| ٠. | BT32-08 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 215 | 0 | . 0 | 0 |
| | BT32-09 | 0 . | 0 | 0 | . 0 | . 0 | 0 | 0 | 955 | 0: | 0 | 0 |
| | BT32-10 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 1,908 | 0: · | 0 | 0 |
| | BT32-11 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 843 | 0 | 0 . | 0 |
| | BT4-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0. | 418 | 0 | 0 | 0 |
| | BT4-02 | Ó | . 0 | 0 | 0 | 0 | 0 | 0 | 128 | 0 | 0 | 0 |
| | BT4-03 | .0 | . 0 | . 0 | 0 | 0 | ; 0 | 0 | 256 | 0 | . 0 | 0 |
| | BT4-05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 313 | 0 | 0 | 0 |
| | BT4-08 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 518 | 0 | 0 | 0 |
| | BT4-09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 953 | 0 | 0 | 0 |
| • | BT4-10 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 879 | 0 | 0 | 0 |
| | BT4-11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,328 | 0 | 0 | . 0 |
| | BT4-12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 |
| | BT4-13 | . 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 |
| • | BT4-14 | 0 | 0 . | 0 | 0 | . 0 | . 0 | 0 | 120 | 0 | 0 | 0 |
| | BT4-15 | 0 | 0. | 0 | 0 . | 0 | 0 | 0 | . 400 | 0 | 0 | 0 |
| | BT6-01 | 0 | 0. | 0 | 0 | . 0 | 0 | 0 | 4,682 | 0 | 0 | 0 |
| | BT6-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,414 | 0 | 0 | 0 |
| • | BT9-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 |
| | ESA-2a1 | 0 | 0 | 0 | 0 | 0 | 0 | 11,923 | | 0 | 0 | 0 |
| | ESA-2al | 0 | 0 | 0 | 0 | | 0 | 11,923 | 7,875 | _ | 0 | |

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| - | | | . 17 | <u> </u> | Human Health S | Soil (bcy) | | Biota Risk Soil | (bcy) | Munitions D | ebris/Soil (bcy) | Sanitary Land | fill Debris (bcy) | RER Soil (bcy) |
|---------|----------------------------|------------------|--------------|---------------|------------------|----------------------|---------------|------------------|----------------------|---------------|------------------|---------------|-------------------|------------------|
| WBS | Implementation Project | SARSite | | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | ROD Volume | Actual Volume | Actual Volume |
| | | ESA-2a2 | _ | 0 | O O | 0 | 0 · | 0 | 0 | 1,199 | 4,061 | 0 | 0 | 0 |
| • | | ESA-2a3 | | 0 | 0 | 0 | 0 | . 0 | .0 | 1,125 | 3,875 | 0 | 0 | 0 |
| | | ESA-2a4 | | 8,667 | 3,835 | 0 | 0 | 0 | 0 | 7,435 | 5,410 | 0 | 0 | 0 |
| | | ESA-2a5 | | 2,370 | 596 | 0 | . 0 | . 0 | 0 | 2,280 | 1,685 | 0 | 0 | 0 |
| | | ESA-2a6 | | 11,333 | 6,205 | 0 | •0 | 0 | 0 | 9,723 | 7,058 | . 0 | 0 | 0 |
| | | ESA-2a7 | • | 9,259 | 3,845 | 0 | . 0 | 0 | 0 | 20,769 | 11,881 | 0 | 0 | 0 |
| | | ESA-2c | | 0 | 0 | 0 | 0 | 0 | 0 | 2,360 | 3,400 | 0 | 0 | 0 |
| | | F Street | | 0 | 0 | . 0 | 0 | 0 | 0 | .0 | 0 | 0 | 570 | 0 |
| | Project Tot | als | | 31,629 | 20,684 | 0 | 0 | 247 | 12 | 56,814 | 80,614 | 0 | . 688 | 0 |
| 2.03.12 | Munitions (Testing) Soil I | Remediation (see | Note 1) | | ٠ | | | | | | | | | |
| | | BA10 | | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 4 | 0 | . 0 | 0 |
| | | Bor9a2 | | 0 | 0 | 0 | 0 | . 0 | . 0 | . 0 | 14 | 0 | 0 | 0 |
| | • | BT32-10 | | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 |
| | | CSA-2c | | 0 | 0 | 0 | 0 | 925 | 0 | 863 | 105 | 0 . | 613 | 0 |
| | | DREZ | | . 0 | 0 | . 0 | 0 | 0 | 0 · | 0 | 22 | 0 | 0 | 0 |
| | : | ESA-la | | 0 | 0 | 0 | 0 | 0 | 0 | 2,711 | 5,200 | 0 | 0 | 0 |
| | | ESA-1b | | 0 | 0 | 0 | 0 | . 0 | 0 | 2,198 | 4,900 | 0 | 0 | 0 |
| | | ESA-1c | | 0 | 0 | . 0 | 0 | 0 | 0 | 1,814 | 5,365 | 0 . | 0 | 0 |
| | | ESA-1d | | 0 | . 0 | 0 | 0 | 0 | 0 | 2,682 | 6,595 | 0 | 0 | 0 |
| | | ESA-4a | | 0 | 0 | 0 | 0 | 0 | 0 | 68,658 | 52 | . 0 | 0 | . 0 |
| | | ESA-4b | | 0 | 0 | Ó | 0 | 6,775 | 0 | 9,848 | 9,572 | 0 | . 0 | 0 |
| | | MT29-1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,765 | 0 | . 0 | 0 |
| ٠. | Project Tot | als | • | . 0 | 0 | 0 | . 0 | 7,700 | 0 | 88,774 | 34,602 | 0 | 613 | 0 |
| 2.03.13 | Miscellaneous Northern T | ier Soil Remedia | tion | | | | • | | | | | | | |
| | • . | NCSA-8b | | 1,979 | 2,323 | 11,520 | 18,666 | 26,452 | 0 | 0 | 0 | . 0 | 0 | 0 |
| | | NPSA-4 | | 259 | 332 | 0 | • 0 | 0. | 0 | · · · · 0 | 0. | 0 | 0 | 0 |
| | | PistolRange | | 1,200 | 1,457 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Project Tota | als | | 3,438 | 4,112 | 11,520 | 18,666 | 26,452 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.03.14 | Miscellaneous Southern Ti | er Soil Remedia | tio n | • | | | | | | | | | •• | |
| | | Fisherman's Pa | rking Lot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | , 0 | 0 | . 0 . | 4,367 |
| | | RifleRange | | 1,103 | 1,355 | 0 | 0. | . 0 | 0 | 0 | 0 · | . 0 | . 0 | 0 |
| | | SSA-2a | | 737 | 2,049 | 5,228 | 15,157 | 3,325 | 0 | 0 | . 0 | 0 | 0 | 5,919 |
| | | 4.5 | | | | | ., | • | | | | | , | |

Table 3.1-1 Soil Remediation Volumes

| | | <u>:</u> | H | uman Health So | il (bcy) | : <u>I</u> | Biota Risk Soil (| bcy) | Munitions D | ebris/Soil (bcy) | Sanitary Landi | ill Debris (bcy) | RER Soil (be |
|----------|----------------------------|----------------------------|---------------|------------------|----------------------|---------------|-------------------|----------------------|---------------|------------------|----------------|------------------|------------------|
| WBS In | nplementation Project | SARSite | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | ROD Volume | Actual Volume | Actual Volume |
| , | , | SSA-2a: SCL Project | 0 | .0 | 0 | 0 | 2,225 | 0 | . 0 | 0 | 0 | 0 | 0 |
| | | SSA-2b | 5,352 | 7,011 | 7,602 | 16,939 | 2,181 | 0 | . 0 | 0 | 0 | 0 . | 0 |
| • | | SSA-2b: SCL Project | 0 | 41,830 | 5,796 | 0 | 43,536 | 0 | 0 | 0 | . 0 | 0 | 0 |
| | | SSA-2c | 0 | 0 | 0 | 7,806 | 10,432 | 0 | 0 | 0 | 0. | 0 | . 0 |
| | | SSA-3b | 15,715 | 11,132 | 162 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | WSA-1f | 105 | 140 | 0 | 186 | 338 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | WSA-6a | 1,148 | 1,378 | 0 | 6,310 | 7,466 | 0 | . 0 | 0 | 0 | 0 | 0 |
| | Project Tota | als | 24,160 | 64,895 | 18,788 | 46,398 | 69,503 | 0 | . 0 | 0 | 0 | 0 | 10,286 |
| .03.17 M | iscellaneous RMA Struc | ture Demolition | | v. | | | • | | | , | | | |
| | | 25CC-3 ACM | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 28 | 0 |
| | | Bldg0881 | 0 | 0 | 125 | 0 | 0. | 0 | 0 | 0 | . 0 | . 0 | 0 |
| | | Bldg0882 | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 . | 0 | 0 |
| | • | Bldg0883 | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Bldg0885 | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 . | 0 | 0 |
| | | Bldg0886 | 0 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Bor9A3-T1 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,698 | . 0 |
| | | Bor9A3-T2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 2,204 | 0 |
| | | Bor9A3-T3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,126 | 0 . |
| | | Bor9a3ACM | 0 | . 0 . | 0 | 0 | 0 | 0 | 0 | 0 | 0 · · | 269 | .0 |
| | Project Tota | ıls | 0 | . 0 | 657 | . 0 | 0 | 0 | 0 | 0 | 0 | 6,325 | -0 |
| 04.18 Bı | uried M-1 Pits Soil Reme | diation | | | | | | | | | | | |
| • | | SPSA-1e | 34,581 | 27,465 | 0 | 0. | 0 | 0 | 0 | 0 | . 0 | 0 | 0 |
| | Project Tota | ls | 34,581 | 27,465 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 . |
| 04.19 He | ex Pit Remediation | • | | | | | | | | | | ; | |
| | | SPSA-1f | 2,005 | 2,795 | . 0 | 0 | . 0 | 0 | 0 | | .0 | 0 | 0 |
| | Project Tota | ls | 2,005 | 2,795 | 0 | . 0 | 0: | . 0 | 0 | 0 | 0 | 0 | . 0 |
| 04.20 So | outh Plants Central Proces | sing Area Soil Remediation | 1 | | | | | | | | | • | |
| | | P1:Borrow11 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 189,487 |
| | | SPSA-10: SPCP | 0 | 5,680 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | SPSA-1a | 110,154 | 140,790 | 27,796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Project Tota | ls | 110,154 | 146,470 | 27,796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 189,487 |
| | | | | | | | | | • | _ | - | _ | |

| | | | Human Health Soil (bcy) | | | _ | Biota Risk Soil (| (bcy) | Munitions D | ebris/Soil (bcy) | Sanitary Land | fill Debris (bcy) | RER Soil (bcy) |
|---------|---------------------------|-----------------------|-------------------------|------------------|----------------------|---------------|-------------------|----------------------|---------------|------------------|---------------|-------------------|------------------|
| WBS | Implementation Project | SARSite | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | ROD Volume | Actual Volume | Actual Volume |
| 2.04.21 | South Plants Balance of A | reas Soil Remediation | | | . , | | | | | | | | |
| | | SPSA-10: SPBA | 25,121 | 72,766 | 68 | . 0 | . 0 | 0 | 0 | . 0 | 0 | 0 | 0 |
| | | SPSA-12b | 178 | 249 | 820 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 |
| | | SPSA-1a: SPBA | 0 | 4,844 | . 0 | .0 | 0 | 0 . | 0 | 0 | 0 | 0 | 0 |
| | | SPSA-1c | 1,303 | 1,569 | 1,194 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | SPSA-1d | 946 | 1,333 | 722 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 |
| | | SPSA-1g | 27,847 | 33,890 | 3,054 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | SPSA-2a | 3,259 | 2,091 | 3,387 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | • | SPSA-2b | 2,844 | 2,935 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | SPSA-2c | 388 | 538 | 596 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | SPSA-2d | 763 | 1,056 | 166 | 0 | 0 | 0 | 0. | 0 | 0 | . 0 | . 0 |
| | | SPSA-2e | 20,148 | 22,103 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | . 0 |
| | · . | SPSA-3a | 5,317 | 6,526 | 0 | . 0 | . 0 | 0 | | . 0 | 0 | . 0 | 0 |
| | | SPSA-3b | 5,155 | 10,263 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | . 0 | 0 |
| | | SPSA-3c | 9,007 | 17,935 | 0 | . 0 | 0 | . 0 | . 0 | . 0 | 0 | 0 | 0 |
| | | SPSA-3d | 178 | 207 | 603 | 0 | . 0 | 0 | . 0 | 0 | . 0 | . 0 | 0 |
| | | SPSA-3e | 24,905 | 23,646 | 1,260 | 0 | 0 | 0 | 0 | 0 . | 0 | 0 | 0 |
| | • | SPSA-4a | 24,127 | 15,151 | . 0 | .0 | 0 | 0 | 0 | 0 | 0 . | 0 | . 0 |
| | | SPSA-4b | 12,859 | 40,041 | 729 | ·. 0 | . 0 | 0 | . 0 | 0 | 0 | . 0 | . 0 |
| | | SPSA-5b | 1,821 | 2,075 | 273 | 0 | . 0 | 0 | 0 | 0 | . 0 | .0. | 0 |
| | | SPSA-6 | 59 | 87 | 0 | . 0 | 0 | 0 | 0 | | 0 | . 0 | 0 |
| | | SPSA-7c | 1,391 | 1,888 | 1,461 | 0 | 0 | 0 | 5,027 | , 6,599 | 0 | 0 | . 0 |
| | | SPSA-8a | 14,003 | 21,371 | 335 | 0 | 0 | 0 | . 0 | 0 | 0 | . 0 | 0 |
| | | SPSA-8b | 1,637 | 4,207 | 0 | . 0 | . 0 | 0 | 0 | 0 | 0 | 0 . | 0 |
| | | SPSA-9a | 575 | 945 | 273 | 0 | 0 | 856 | 0 | 0 | 0 | 0 | . 0 |
| | | SPSA-9b | 1,982 | 4,032 | 0 | 0 | . 0 | . 0 | 0 | 0 | 0 . | 0 | 0 |
| | | SPSA-BA | . 0 | 0 | 0 | 531,069 | 361,296 | 0 | 0 | 0 | 0 | . 0 | 0 |
| | | SPSA-Bor2 | 0 | 0 | 813 | 0 | 36,709 | 0 | 0 | 0 | 0 | 0 . | . 0 |
| | | SPSA-LP | 0 | 21,426 | 13,163 | 0 | 0 - | 0 | 0 | 0 | 0 | 0 | 0 |
| | | SPSA-PCB | 0 | 154 | 0 | ·. 0 | . 0 | 0 | 0 | 0 | . 0 | 0 | 0 |
| | | SPSA-Petro | 0 | 258 | 0 | 0 | . 0 | 0 | 0 | 0 | . 0 | 0 | 0 |
| | | UST321 | 0 | 360 | 0 | 0 | 0 | 0 | 0 | 0 | : 0 | 0 | . 0 |
| | Project Tota | is | 185,813 | 313,946 | 28,917 | 531,069 | 398,005 | 856 | 5,027 | 6,599 | 0 | 0 | 0 |

Table 3.1-1 Soil Remediation Volumes

| | | :. : | <u>H</u> ı | ıman Health So | il (bcy) | | Biota Risk Soil (| bcy) | Munitions D | ebris/Soil (bcy) | Sanitary Land | fill Debris (bcy) | RER Soil (bcy |
|---------|----------------------------|---------------------|---------------|------------------|----------------------|---------------|-------------------|----------------------|---------------|------------------|-----------------|-------------------|------------------|
| WBS | Implementation Project | SARSite | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | ROD Volume : | Actual Volume | Actual Volume |
| 2.05.23 | Section 36 Balance of Are | as Soil Remediation | | | | , | | | | | | | |
| | | 36NW-4 | 0 | . 0: | 0 | . 0 | 0 | 0 | 0 | 0 | 0. | . 0 | 10,102 |
| | | 36NW-5 | 0 | 0 | . 0 | 0 | 0 | . 0 | . 0 | . 0 | 0 · | 0 | 4,473 |
| | | CSA-1b | 29,102 | 68,488 | 912 | 28,602 | 81,705 | 0 . | 26,304 | 10,733 | 0 | . 0 | 0 |
| | | CSA-1d | 0 | 0 | 0 | 0 | 641 | . 0 | 0 | . 0 | 0. | . 0. | 185 |
| | | CSA-2a | 0 | 0 | 0 | 0 . | 0 | 0 | 2,062 | 3,105 | 0 - | . 0 | 0 |
| | · | CSA-2b | 0 | . 0 | o o | 8,668 | 11,590 | 0 | 0 | . 0 | 0 | . 0 | 0 |
| | | CSA-3 | 2,035 | 5,062 | 0 | 0 | . 0 | 0 | . 0 | - 0 | 0 | 0 | 0 |
| | | CSA-4 | 17,404 | 27,996 | 0 | 82,727 | 113,066 | . 0 | 51,512 | 37,924 | - 0 : | . 0 | . 0 |
| | | NCSA-1b | 0. | 135 | . 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | . 0 |
| | | NCSA-1d | 0 | 0 | 0 | 3,169 | 4,278 | 0 | 0 . | . 0 | . 0 | : 0 | . 0 |
| | | NCSA-1f | 0 | 0 | 0 | 1,137 | 4,053 | 0 | . 0 | 0 | . 0 | 0 | 0 - |
| | | NCSA-1g | 1,885 | 2,670 | 0 | 30,775 | 35,067 | 0 | 0 | Ó | 0 · | . 0 | 0 |
| | | NCSA-6a: Sec36 | 1,100 | 23,041 | 1,406 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | NCSA-6b | 805 | 1,024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 . | 0 | 0 |
| | | P1:Borrow9C | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 44,245 |
| | | P1:Section36 | 0 | 0 | 0 | 0 . | 0 | . 0 | 0 | 9,917 | 0 | . 0 | 57,921 |
| | | SP Lot | 0 | 0 | 0 | 0 - | 5,656 | 0 | . 0 | 0 | 0 | 0 | 0 |
| | | SurficialSoil:Sec36 | 497 | 640 | 0 | 11,497 | 7,991 | 0 | . 0 | 0 | .0 | 0 | 0 |
| | Project Tota | als | 52,828 | 129,056 | 2,318 | 166,575 | 264,047 | 0 | 79,878 | 61,679 | 0 | 0 | 116,926 |
| 2.05.24 | Secondary Basins Soil Ren | nediation | | | ٠. | | | | | | | | |
| | • | NCSA-2a | 25,448 | 38,954 | 452 | 96,694 | 101,753 | 0 | 0 | 0 | 0 | 0 | Ò |
| | | NCSA-2b | 2,472 | 2,990 | 0 | 29,375 | 38,113 | . 0 | 0 | 0 | 0 | . 0 | 0 |
| | | NCSA-2d | 89 | 1,124 | 483 | 3,664 | 2,636 | . 0 | 0 | 0 | 0 | 0 | 0 |
| | • | NCSA-2d: CSV | 0 | 0 | 2,237 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 . |
| | | NCSA-4b: SECB | 0 | 0 | 0 | 0 | 10,350 | 15 | 0 | 0 | 0 | 0 | 0 |
| | | P1:SECB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23,558 |
| | | SurficialSoil:SECB | 3,375 | 4,755 | 0 | 6,063 | 7,373 | 0 | 0 | 0 | 0 | . 0 | 0 |
| | Project Tota | als | 31,384 | 47,823 | 3,172 | 135,796 | 160,225 | 15 | 0 | 0 | 0 | 0 | 23,558 |
| 0.05.07 | | | , | ,3== | -, | ,,,,, | , | 10 | Ū | | | ŭ | 25,556 |
| 2.03.27 | North Plants Soil Remediat | | 11.000 | 40.207 | 2 | | ^ | ^ | • | • | | • | , |
| | | NPSA-1 | 11,220 | 42,307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,316 |
| | • | NPSA-3 | 0 | 0 | . 0 | 6,056 | 2,373 | . 0 | 0 | 0 | . 0 | 0 | 0 |

| | | | _ <u>I</u> | Human Health So | il (bcy) | ٠. | Biota Risk Soil (| (bcy) | Munitions D | ebris/Soil (bcy) | Sanitary Landf | ill Debris (bcy) | RER Soil (bcy) |
|---------|---------------------------------------|----------------------|---------------|--|----------------------|---------------|-------------------|----------------------|---------------|------------------|----------------|------------------|------------------|
| WBS | Implementation Project | SARSite | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | ROD Volume | Actual Volume | Actual Volume |
| | | NPSA-5 | 170 | 598 | 0 | 5,454 | 2,517 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | NPSA-6 | 52 | 205 | . 0 | 4,994 | 1,056 | 0 | 0 | 0 | 0 | 0 . | 0 |
| | | NPSA-8c | . 0 | 0 | 0 | 352 | 889 | . 0 | 0 . | · · · 0 | 0 | 0 | 0 |
| | | NPSA-9f | 0 | 0 | 0 | 284 | 399 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Project Tot | als | 11,442 | 43,110 | 0 | 17,140 | 7,234 | , 0 | 0 | . 0 | 0 | 0 | 4,316 |
| 2.05.28 | Section 35 Soil Remediation | on | | | | 74 24 | | | | | • | • | |
| | | 35WC-4 | 0 | 0 | 0 | 0. | 0 | 0 | 0 | 0 | 0 | 0 | 5,877 |
| | | NCSA-1c: Sec35 | 0 | 0 | 0 | 222 | 754 | 0 | 0 | 0 | . 0 | 0 | 135 |
| | | NCSA-5a | 920 | 1,186 | 0 | 5,461 | 6,807 | 0 | 0 | 0 | 0 - 7 | 0 | . 0 |
| | | NCSA-5b | 81 | 665 | 2,524 | 6,511 | 2,438 | . 0 | 0 | . 0 | 0 (1 | 0 | . 0 |
| | | NCSA-5b: SCL Project | 0 | 4,213 | 0 | . 0 | 9,366 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | NCSA-5c: SCL Project | 0 - | 19,597 | 507 | 0 | 40,835 | 357 | 0 | 0 | 0 - | . 0 | 0 |
| | | NCSA-5c: Sec35 | 5,614 | 9,761 | 2,718 | 8,444 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | NCSA-5d | 0 | 0 | 0 | 1,289 | 4,608 | 0 | . 0 | . 0 | 0 | . 0 | 0 |
| | | P1:Section35 | . 0 | 0 | . 0 | 0 | . 0 | 0 | 0 | 0 | 0 . | 0 | 36,646 |
| | | SurficialSoil:Sec35 | 0 | 0 | 0 | 98,777 | 74,594 | 0 | 0 | 0 | .0 | 0 | 0 |
| • | Project Tota | als | 6,615 | 35,422 | 5,749 | 120,704 | 139,402 | 357 | 0 | 0 | 0 | 0 | 42,658 |
| 2.06.30 | Basin F Wastepile Remedi | ation | | | | | | • | | | | | - |
| | · | Wastepile | 600,000 | 487,148 | 0 | 0 | 0 | 0 . | . 0 | 0 | 0 | 0 | 0 |
| | Project Total | als | 600,000 | 487,148 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | . 0 |
| 2.06.31 | Basin F PT Soil | • | | · | | | | | | | | | i. |
| | | 26NW-5A | 0 | 0 | . 0 | 0 | 0 | 0 | | | | 0 | 5,190 |
| • | | 26WC-3A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 3,029 |
| • | | Basin F Haul | 0 | 0 | 4,748 | 0 | 0 | . 0 | . 0 | 0 | . 0 | 0 | 0,029 |
| | | NCSA-3 | 233,000 | 234,020 | 501 | . 0 | 0 | 0 | . 0 | 0 | o | 0 | . 0 |
| | | NCSA-3:HHE | 0 | , 0 | 69,984 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Project Tota | als | 233,000 | 234,020 | 75,233 | 0 | . 0 | 0 | 0 | 0 | 0 | . 0 | 8,219 |
| 2.06.32 | Basin F and Basin F Exteri | or Remediation | | | | | | | | • |] | | |
| | · · · · · · · · · · · · · · · · · · · | BFP1 | 0 | . 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 1,176 |
| | | BFP10 | . 0 | 0 | 0 | 0 | 0 | . 0 | 0. | . 0 | 0 | . 0 | 2,739 |
| | | BFP8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n | 5,193 |
| | | | - | , and the second | Ü | v | v | Ū | | | | v | 3,173 |

Table 3.1-1 Soil Remediation Volumes

Page 8 of 8

| | • | | <u>H</u> 1 | ıman Health So | il (bcy) | | Biota Risk Soil | (bcy) | Munitions De | ebris/Soil (bcy) | Sanitary Lan | dfill Debris (bcy) | RER Soil (bcy) |
|---------|-----------------------|------------------|---------------|------------------|----------------------|---------------|------------------|----------------------|---------------|------------------|---------------|--------------------|------------------|
| WBS | Implementation Projec | t SARSite | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | Contingent Volume | ROD Volume | Actual Volume | ROD Volume | Actual Volume | Actual Volume |
| | | NCSA-2d Backfill | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 . | 0 | 0 | 3,530 |
| | | NCSA-4a | 0. | 17 | 0 | .0 | . 0 | 0 | . 0 | 0 | 0 | 0. | 0 |
| | | NCSA-4a | 3,381 | 7,875 | 3,176 | 4,756 | 5,541 | . 0 | 0 | 0 | 0 | 0 . | 0 |
| | | NCSA-4b | 0 | 0 | 0 | 115,222 | 172,758 | 2,766 | 0 | 0 | 0 | . 0 | 0 |
| | | NCSA-4b | 68,525 | 118,875 | 13,910 | 24,344 | 75,817 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | NCSA-5c: Sec26 | 0 | 2,699 | 1,869 | 14,378 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 |
| • | Project T | otals | 71,906 | 129,466 | 18,955 | 158,700 | 254,116 | 2,766 | :· 0 | 0 | 0 | 0 | 12,638 |
| 2.07.35 | Borrow Area Operation | s . | • | • | | | | | • | | | | |
| | | P1:Borrow3 | . 0 | 0 | 0 | 0 | . 0 | 0 | 0 | . 0 | 0 | . 0 | 340,832 |
| | | P1:Borrow4 | .0 | . 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101,351 |
| | | P1:Borrow5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67,989 |
| | : . | P1:Borrow6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121,137 |
| | | P1:Borrow7A | 0 | 0 | 0 | o : | . 0 | 0 | | 0 | 0 | 0 | 116,379 |
| | | P1:Borrow7B | . 0 | .0 | · .0 | 0 : | 0 | 0 | 0 | 0 | 0 | 0 | 57,123 |
| | | P1:Borrow8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46,961 |
| | | P1:Borrow9A | . 0 | . 0 | 0 | 0 : | 0 - | 0 | 0 | 0 | 0 | 0 | 73,942 |
| | Project T | otals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 925,714 |
| 2.07.38 | TRER Soil | | | | | i | | | | | | | |
| | | 1SE-4 | . 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,916 |
| | · · · · · | 26SW-1 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 1,828 |
| | | 26WC-2 | 0 . | 0 | 0 | o : | 0 | 0 | 0 | . 0 | 0 | 0 | 3,761 |
| | | 31EC-1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 9,826 |
| | | 31EC-2 | . 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | . 0 | 3,340 |
| | | 36EC-1 | 0 | . 0 | 0 | 0 | 0 | 0 | ; | 0 | 0. | 0 | 5,734 |
| | | 36NE-3N | 0 | 0 | 0 · | . 0 | 0 | 0 | 0 | 0 | Ö | . 0 | 13,303 |
| | Project To | otals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50,708 |
| | Total Remediation Vo | lumes | 1,445,008 | 1,742,183 | 194,037 | 1,448,465 | 1,661,104 | 10,800 | 230,888 | 186,242 | 383,100 | 230,946 | 1,722,368 |

Note 1: Actual Munitions Debris/Soil volume presented is estimated for BA10, BT32-10, DREZ, ESA-4a and ESA-4b based on pounds of debris reported in CCRs

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| 0111 | 35 | Future Use | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| 0112B | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 0114 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 0116 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0136 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0137 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0148 | 34 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0169B | 34 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0176 | 3 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-002 |
| 0211 | 2 | Future Use | NFU by RD | South Plants Demo Phase 1 CCR |
| 0213 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0241 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0242 | 2. | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0243 | 2 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0244 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0245 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0246 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0247 | 2 | NFU-SCH | NFU-SCH | South Plants BOA & CPA Phase 2 CCR |
| 0248 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0249 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0251 | 2 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0252 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0253 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0254 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 2 CCR ¹ |
| 0255 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0256 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0282 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0286 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0287 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0295 | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0296 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0307 | 36 | NFU-OCH | NFU-OCH | Section 36 BOA Part 2 CCR |
| 0309 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0311 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0311A | 2 | NA | NFU by RD | South Plants Demo Phase 1 CCR |
| 0312 | 36 | Future Use | NFU by RD | Section 36 BOA Part 2 CCR |
| 0313 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0313A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| 0314 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0315 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0315A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0316 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0316A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| 0316B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0317 | 1 | NA | NFU by RD | Pilot Demo Experience Report |
| 0317A | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0318 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 4 CCR |
| 0319 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0321 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0321A | 2 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| 0321B | 2 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| 0321C | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0321D | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0322 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0322A | 2 | NFU-OCH | NFU-OCH . | South Plants Demo Phase 1 CCR |
| 0323 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0324 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0325 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0326 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0327 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0328 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0328A | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0329 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0331 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0332 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0333 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0334 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0335 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0336 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0337 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0338 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0339 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0340 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0341 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0341A | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0341B | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0342 | 2 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0343 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0343A | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0344 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0345 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0346 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0347 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 2 CCR ¹ |
| 0351 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0352 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0352A | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| 0353 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0354 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0355 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0356 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0362 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0364 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0365 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0368 | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0372 | 2 | Future Use | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| 0374 | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0378 | 10 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 0379 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0381 | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0382 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0383A | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0391 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Northern Tier Soils CCR |
| 0392 | 34 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 0393 | 34 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 0394 | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0395 | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |
| 0409 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0411 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0411A | 1 | NFU-SCH | NFU-SCH | South Plants BOA & CPA Phase 2 CCR |
| 0412 | 1 | NA | NFU by RD | Pilot Demo Experience Report |
| 0413 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0413A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| 0414 | 1 | NFU-AH | NFU-AH | South Plants BOA & CPA Phase 2 CCR |
| 0414Q | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| 0415 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0416 | 1 | NFU-AH | NFU-AH | South Plants BOA & CPA Phase 2 CCR |
| 0417 | 1 | NFU-AH | NFU-AH | South Plants BOA & CPA Phase 2 CCR |
| 0422 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0424A | 1 | NFU-SCH | NFU-SCH | South Plants BOA & CPA Phase 2 CCR |
| 0424B | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| 0424C | 1 | NFU-SCH | NFU-SCH | South Plants BOA & CPA Phase 2 CCR |
| 0426 | 1 | NFU-AH | NFU-AH | South Plants BOA & CPA Phase 2 CCR |
| 0427 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0428 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 Design |
| 0429 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0431 | 1 | NA | NFU by RD | Pilot Demo Experience Report ¹ |
| 0432 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0433 | 1 | NA | NFU by RD | Pilot Demo Experience Report ¹ |
| 0434 | 1 | NFU-OCH | NFU-OCH | Closure for ASTs - Gonzales |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| 0435 | 1 | NFU-OCH | NFU-OCH | Closure for ASTs - Gonzales ¹ |
| 0451 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0459 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0459A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0459B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0459C | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0461 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0464 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0471 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0471B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0471C | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0472 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0472A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0473 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0474 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0475 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0502 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0503 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR |
| 0504 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0504A | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| 0505 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR |
| 0506 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0507 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0508 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0509 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0510 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0511 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0511A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 2 CCR ¹ |
| 0512 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0512A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0514 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0514A | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0514C | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0514D | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0514E | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 2 CCR ¹ |
| 0515 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0515A | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR |
| 0516 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0516B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0517 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0518A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0519 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0519A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| 0520 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0521 | . 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0521A | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0521B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0521C | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0522 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0522A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0522B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0523 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0523A | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0523C | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0523D | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0523E | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0523F | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0523G | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0524 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0525 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0525A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 2 CCR |
| 0526 | 1 | NFU-SCH | NFU-SCH | South Plants BOA & CPA Phase 2 CCR |
| 0527 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0528 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0529 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0531 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0532 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0533 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0534 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0534A | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0534B | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0534C | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0534D | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0536 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0537 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0538 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0538A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 2 CCR ¹ |
| 0539 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0540 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0541 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0541A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0542 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0543 | 1 | NFU-OCU | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0543A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0543B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0544 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| 0545 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0546 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0548 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0549 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0550 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0551 | 1 | Future Use | NFU by RD | South Plants Demo Phase 1 CCR |
| 0552 | 1 | Future Use | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| 0553 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0555 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0557 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0561 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR ¹ |
| 0561A | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0561X | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| 0571 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0571A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0571B | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 1 CCR ¹ |
| 0605 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 0606 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0607 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 0608 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0611 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0612 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0613 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0614 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0615 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0616 | 3 | NFU-SCH | NFU-SCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0617 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0618 | 3 | Future Use | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| 0619 | 3 | Future Use | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| 0621 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0621A | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0622 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0623 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0624 | 4 | NFU-SCH | NFU-SCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0625 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0626 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0626C | 4 | NFU-OCH | NFU-OCH | Miscellaneous Southern Tier Soils CCR |
| 0627 | 4 | NFU-SCH | NFU-SCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0627B | 4 | NFU-OCH | NFU-OCH | Miscellaneous Southern Tier Soils CCR |
| 0628 MH | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| 0628 Pad | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| 0629 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0629E | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| 0630 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 0631 | 4 | NFU-SCH | NFU-SCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0631A | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0632 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 and 3 CCRs |
| 0633 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0633A | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0633B | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0634 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0635 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0639 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0641 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0643 | 3 | NFU-SCH | NFU-SCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0646 | 4 | NFU-SCH | NFU-SCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0647A | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0647B | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0647C | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0647D | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0648 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Southern Tier Soils CCR |
| 0670 | 3 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| 0673 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0679 | 10 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0680 | 9 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| 0684 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0685 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0724 | 1 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR |
| 0725 | 36 | NFU-AH | NFU-AH | Section 36 BOA Part 1 CCR |
| 0726 | 36 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 0727 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0728 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0729 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0730 | 36 | NA | NFU by RD | Section 36 BOA Part 1 CCR |
| 0731 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0732 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0733A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0733B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0733C | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0733D | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0733E | 1 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0733E | 1 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0735 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0733 | 1 | NFU-SCH | NFU-SCH | South Plants Demo Phase 2 CCR |
| 0741 | 1 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |
| 0742 0742A | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 CCR ¹ |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| 0743 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0743A | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0744 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0745 | ì | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0746 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| 0748 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0751 | 1. | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0752 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0752A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0753 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0754 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| 0765 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| 0784 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| 0785 | 6 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0786 | 6 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0787 | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| 0788 | 6 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0791 | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0792 | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0793 | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0794 | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0795 | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0796 | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0797 | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0798. | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 0801 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| 0808 | 23 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| 0809 | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0810 | 27 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| 0825 | 35 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| 0829 | 26 | NA | NFU by RD | Basin F Wastepile CCR |
| 0831 | 26 | NA | NFU by RD | Basin F Wastepile CCR |
| 0831 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0831A | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0833 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0834 | 36 | NFU-SCH | NFU-SCH | Section 36 ESL CCR |
| 0836 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| 0840 Debris | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| 0851 | 19 | NFU-OCH | NFU-OCH | Miscellaneous Northern Tier Soils CCR |
| 0854 | 26 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0863 | 12 | NFU-OCH | NFU-OCH | Miscellaneous Southern Tier Soils CCR |
| 0864 | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |
| 0865 | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|------------------|---------|-----------------|----------------|---|
| 0866 | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |
| 0867A | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |
| 0867B | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |
| 0871A | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0871B | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0871C | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0871D | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0872A | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0872B | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0872C | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0872D | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0873A | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0873B | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0873C | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0874A | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0874B | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0874C | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0874D | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 0881 | 6 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 1 CCR |
| 0882 | 6 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 1 CCR |
| 0883 | 6 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 1 CCR |
| 0885 | 6 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 1 CCR |
| 0886 | 6 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 1 CCR |
| 0888 | 25 | NA | NFU by RD | CQA for ELF Support Facilities Closure |
| 0889 | 36 | NA | NFU by RD | Section 36 BOA Part 2 CCR |
| 0890 | 26 | NA | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| 0895 | 26 | NA | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| 1402 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| 1403 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1403A | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| 1404 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1405 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1501 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1502 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1503A | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1503B | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1503C | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1504 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1504A | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1504A2 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| 1504A3 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| 1505 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| 1505A | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|---|
| 1506 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1507 | 25 | NFU-OCH | NFU-OCH | North Plant Demo Design |
| 1508 | 25 | NFU-OCH | NFU-OCH | North Plant Demo Design |
| 1509 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1510 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1510A | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1512 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1601 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1601A | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1602 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1603A | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1603B | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1605 | 25 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 2 CCR |
| 1606 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1607 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1608 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1609 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1610 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1611 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1611A | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1613 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1614 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1615 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1616 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1618 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 1619 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 1622 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 1701 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1702 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1703 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1704 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1705 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1706 | 25 | NCU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 1707 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1710 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1711 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1712 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1713 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1715 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1717 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 1718 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| 1719 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| 1726 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|-------------------------|---------|-----------------|----------------|--|
| 1727 | 25 | NFU-AH | NFU-AH | North Plants Demo/Equip Destruction CCR |
| 1728 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| 1730 | 31 | NCU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 1734 | 31 | NCU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| 1735 | 31 | NFU-AH | NFU-AH | Miscellaneous Structures Demo Phase 1 CCR |
| B632 UST | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| B633A UST | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| B810 UST | 27 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| B1622 UST | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| BFWP Drying Facility | 26 | NA | NFU by RD | Basin F Principal Threat Soil & Basin F Wastepile Drying Facility Demolition CCR |
| BFWP Decon Pad | 26 | NA | NFU by RD | Basin F Wastepile CCR |
| Irondale | 33 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0101 | 1 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0102 | 1 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0103 | 1 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0104 | 1 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0105 | 1 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0201 | 2 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0203 | 2 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0301 | 3 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0302 | 3 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0303 | 3 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0602 | 6 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0603 | 6 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0604 | 6 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0605 | 6 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD0801 | 8 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD1101 | 11 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD1201 | 12 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD1202 | 12 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD1203 | 12 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD1902 | 19 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD1903 | 19 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2001 | 20 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2201 | 22 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2301 | 23 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2401 | 24 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2501 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| MD2502 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| MD2503 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2504 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| MD2505 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2506 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2507 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2508 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2509 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2510 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2511 | 25 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2601 | 26 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2602 | 26 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2603 | 26 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2701 | 27 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2702 | 27 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2901 | 29 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD2902 | 29 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3001 | 30 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3002 | 30 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3003 | 30 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3004 | 30 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3005 | 30 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3101 | 31 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3103 | 31 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3104 | 31 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3106 | 31 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3401 | 34 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3501 | 35 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| MD3502 | 35 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| NBTS01 | 23 | NA | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| NN0102 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0103 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0104 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline & Equipment Removal |
| NN0105 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0106 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0107 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0108 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0109 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| NN0110 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0111 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 2 CCR ¹ |
| NN0112 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| NN0113 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0114 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| NN0115 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| NN0116 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR ¹ |
| NN0117 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|---|
| NN0201 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| | | NEW OCH | NFU-OCH | South Plants Demo Phase 1 CCR and |
| NN0202 | 2 | NFU-OCH | NFU-UCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN0203 | 2 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| NN0204 | 2 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| NN0205 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| NN0300 | 3 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| NN0301 | 3 | NCU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN0302 | 3 | NCU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN0303 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| NN0304 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| NN0601 | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |
| NN0602 | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |
| NN0603 | 6 | NFU-OCH | NFU-OCH | Toxic Storage Yards CCR |
| NN0902 | 9 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN1208 | 12 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN1209 | 12 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN1210 | 12 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN1211 | 12 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN1212 | 12 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN2001 | 20 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN22 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| NN23 | 23 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| NN2301 | 23 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| NN24 | 24 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| NN2401 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN2402 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Northern Tier Soils CCR |
| NN2403 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Northern Tier Soils CCR |
| NN2404 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Northern Tier Soils CCR |
| NN2405 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| NN2501 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN2502 | 25 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN2503 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| NN2601 | 26 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN2602 | 26 | NFU-OCH | NFU-OCH | Secondary Basins CCR |
| NN28 | 28 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| NN3001 | 30 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN3002 | 30 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN3101 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN3101 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3102 NN3103 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3103 NN3104 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3104 NN3105 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|-----------------|---|
| NN3106 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3107 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3108 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3109 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN33 | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| NN3501 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3601 | 36 | NFU-OCH | NFU-OCH | Section 36 ESL CCR |
| NN3602 | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| NN3603 | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3604 | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| NN3605 | 36 | NFU-OCH | NFU-OCH | Section 36 BOA Part 1 CCR |
| NNT0101 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| NNT0103 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| NNT0105 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| NNT0106 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| NNT0107 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| NNT0108 | 1 | NA | NFU by RD | Removal of Non-Agent ASTs - Weston |
| NNT0110 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| NNT0111 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| NNT0201 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| None 01 | 3 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 02 | 3 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 03 | 10 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 04 | 35 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 05 | 31 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 06 | 36 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 07 | 26 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 08 | 30 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 09 | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 10 | 36 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 11 | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 12 | 31 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 13 | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| None 14 | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| NP01 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| NP02 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| NP03 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| PR01 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| PR02 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| PR04 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| PR25 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| PR36 | 36 | NFU-OCH | NFU-OCH | Section 36 BOA Part 1 CCR |
| SQI01 | 26 | NA | IRA Support-NFU | Miscellaneous Structures Demo Phase 3 and Phase 4 |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | |
|---------------------|---------|-----------------|----------------|---|
| SS 0100 | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0101 | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0102 | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0103 | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0104 | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0105 | 6 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0111 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| SS 0141 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0176 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0213 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0232 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0243 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0245 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0311 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0312 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0312A | 36 | NFU-OCH | NFU-OCH | Section 36 BOA Part 2 CCR |
| SS 0313 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0313-2 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0314 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0315 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0316 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0316A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0317 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0321 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0321A | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0321B | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0325 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0327 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0328 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0330 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0335 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0342 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0344 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0355 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0361 | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0362 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0363 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0365 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0368 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0371A | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0378 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| SS 0379 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0383 | 2 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | |
|---------------------|---------|-----------------|----------------|---|
| SS 0391 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Northern Tier Soils CCR |
| SS 0392 | 34 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| SS 0393 | 34 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| SS 0411 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0422 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0451 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0461 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0464 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0474 | 11 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| SS 0510 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0512 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0514 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0515 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| SS 0516 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0517 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0517A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0517B | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0521 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0523 | 26 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0525A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0527 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0528 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0529 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0531 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0534 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0539 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0541 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0543 | 1 . | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| SS 0548 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0548A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0556 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0571 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0575 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| SS 0575A | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0611 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0612 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0613 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0614 | 3 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0616 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| SS 0618 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| SS 0618-2 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 3 CCR |
| SS 0619 | 3 | Future Use | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| SS 0621 | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|---|
| SS 0622 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0624 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0625 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0627 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0627A | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0629 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0631 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0632 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0633 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0634 | 4 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0635 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0647 | 3 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0673 | 3 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0725 | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0726 | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0727 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0728 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0729 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0732 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0742 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0747 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CCR |
| SS 0755 | 1 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0756 | 1 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0757 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0780 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0781 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0782 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS 0806D | 26 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0806G | 26 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0808ABC | 23 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0808D | 23 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0808E | 23 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0808F | 24 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0808G | 24 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0808H | 24 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0808I | 24 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0808K | 24 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0808L | 24 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0809 | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS 0809A | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| SS 0809B | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| SS 0809C | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| SS 0809D | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|---|
| SS 0809E | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| SS 0809F | 33 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| SS 0831 | 35 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0831E | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0832 | 34 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 0836 | 24 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 2 CCR |
| SS 1000 | 27 | NA | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| SS 1402 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1403 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1404 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1501 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1505 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1506 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1510 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1601-1 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1601-2 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1602 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1603 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1605 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1606-1 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1606-2 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1607 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1609 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1611 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1611AB | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1614 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1616 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1701 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1702 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1703 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1704-1 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1704-2 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1704-3 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1706 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1707 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1710 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1711 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1724 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS 1730 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 1731 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 1732 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 1735 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 1736 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|---|
| SS 3610L | 23 | NA | NFU by RD | RCRA-Equivalent Cover Demonstration |
| SS 6C | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS 7215 | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS AL338 | 31 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Phase 1 CCR |
| SS AWL021 | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS CPR 1 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS CPR 10 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS CPR 2 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS CPR 3 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 CRR |
| SS CPR 4 | 2 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS CPR 5 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS CPR 6 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS CPR 7 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 |
| SS CPR 8 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 |
| SS CPR 9 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 |
| SS F182 | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS FL842 | 25 | NFU-OCH | NFU-OCH | North Plants Demo Design |
| SS GA | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS H-1 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS LDLA | i | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS NN2201 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2202 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2203 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2204 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2205 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2206 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2207 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2208 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2209 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2210 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2211 | 22 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2301 | 23 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS NN2501 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| SS NN2601 | 26 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS NN2701 | 27 | NFU-OCH | NFU-OCH | Misc Structures Demo Design DCN-MSD2-013 |
| SS PSCOST | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS PT56/57 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| SS SBA | 36 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS SWIM | 2 | NFU-OCH | NFU-OCH | Miscellaneous Structures Demo Design |
| SS WR | 36 | NFU-OCH | NFU-OCH | Section 36 BOA Part 1 CCR |
| STF Meter | 2 | NA | NFU by RD | Groundwater Mass Removal Project CCR |
| T 0026 | 1 | NFU-OCH | NFU-OCH | Interior Building |
| T 0027 | 1 | NFU-AH | NFU-AH | South Plants Demo Phase 2 Design |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|--|
| T 0064 | 1 | NFU-OCH | NFU-OCH | Interior Building |
| T 0065 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline and Equipment Removal |
| T 0075 | 11 | NFU-OCH | NFU-OCH | Outside Pipeline and Equipment Removal |
| T 0076 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline and Equipment Removal |
| T 0078 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline and Equipment Removal |
| T 0139 | 1 | NFU-OCH | NFU-OCH | TVA Dismantling Operations |
| T 0190 | 1 | NFU-OCH | NFU-OCH | TVA Dismantling Operations |
| T 0289 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| T 1040 | 1 | NFU-OCH | NFU-OCH | Interior Building |
| T 1128 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1129 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1132 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1133 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1140 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1146 | 1 | NFU-OCH | NFU-OCH | Outside pipeline and equipment removal |
| T 1147 | 1 | NFU-OCH | NFU-OCH | Outside pipeline and equipment removal |
| T 1168 | 1 | NFU-OCH | NFU-OCH | TVA Dismantling Operations |
| T 1178 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1205 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1206 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1216 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline & Equipment Removal |
| T 1324 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline & Equipment Removal |
| T 1327 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1340 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1390 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1391 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1392 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1463 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline & Equipment Removal |
| T 1505 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1506 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1507 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1508 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1509 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1510 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| T 1570 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline & Equipment removal |
| T 1603 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 1 CCR |
| T 1605 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 1 CCR |
| T 1606 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| T 1973 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| TF0101 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| TF0102A | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| TF0104 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| TF0106 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |

Table 3.2-1 Remediation Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|---|
| TF0107 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| TF0110 | 1 | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| TF2501 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| T463E | i | NA | NFU by RD | South Plants BOA & CPA Phase 2 CCR |
| TW-13 | 25 | NFU-OCH | NFU-OCH | North Plants Demo/Equip Destruction CCR |
| UNK | 24 | NA | NFU by RD | Miscellaneous Structures Demo Phase 2 CCR |
| UNK | 1 | NA | NFU by RD | South Plants Demo Phase 2 CCR |
| UNK | 1 | NA | NFU by RD | South Plants Demo Phase 1 CCR |
| V 1064 | 1 | NFU-OCH | NFU-OCH | Removal of Non-Agent ASTs - Weston |
| V 1214 | 1 | NFU-OCH | NFU-OCH | TVA Dismantling Operations |
| V 1220 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline & Equipment Removal |
| V 1250 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline & Equipment Removal |
| V 1253 | 1 | NFU-OCH | NFU-OCH | South Plants BOA & CPA Phase 2 CCR |
| V 1267 | 1 | NFU-OCH | NFU-OCH | South Plants Demo Phase 1 Design |
| V 1270 | 1 | NFU-OCH | NFU-OCH | Outside Pipeline & Equipment Removal |
| Vault01 | 4 | NA | NFU by RD | Miscellaneous Structures Demo Phase 3 CCR |
| Z-196 | 25 | NA | NFU by RD | North Plants Demo/Equip Destruction CCR |
| Z-28 | 23 | Future Use | NA | Miscellaneous Structures Demo Design |
| Z-3 | 35 | Future Use | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| Z-38 | 4 | Future Use | NA | Miscellaneous Structures Demo Design |
| Z-39 | 4 | Future Use | NA | Miscellaneous Structures Demo Design |
| Z-40 | 25 | Future Use | NA | Miscellaneous Structures Demo Design |
| Z-41 | 25 | Future Use | NFU by RD | North Plants Demo/Equip Destruction CCR |
| Z-42 | 25 | Future Use | NFU by RD | North Plants Demo/Equip Destruction CCR |
| Z-58 | 35 | Future Use | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |
| Z-68 | 35 | Future Use | NA | Miscellaneous Structures Demo Design |
| Z-69 | 35 | Future Use | NA | Miscellaneous Structures Demo Design |
| Z-70 | 4 | Future Use | NFU by RD | Miscellaneous Structures Demo Phase 1 CCR |

¹Foundation removed during South Plants BOA & CPA Phase 2

| BFWP | Basin F Wastepile |
|------|-------------------------|
| BOA | Balance of Areas |
| CPA | Central Processing Area |
| | 37-4 A 13-a l. la |

NA Not Applicable

NFU-AH No Future Use - Agent History

NFU-SCH No Future Use - Significant Contamination History NFU-OCH No Future Use - Other Contamination History

NFU by RD No Future Use - Remedial Design

Table 3.2-2 Future Use Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|---|
| 0105 | 33 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0112 | 35 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0112A | 35 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| 0120 | 35 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0121 | 35 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0124 | 35 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0127 | 35 | NA | FU by RD | Misc Structures Demo Design DCN-MSD2-013 |
| 0128 | 35 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0129 | 35 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0130 | 35 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0132 | 35 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD3-004 |
| 0133 | 35 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0135 | 4 | Future Use | Future Use | Miscellaneous Structures Demo Design ¹ |
| 0143 | 4 | Future Use | Future Use | Misc Structures Demo Design DCN-MSD2-002 ¹ |
| 0145 | 11 | Future Use | Future Use | Misc Structures Demo Design DCN-MSD2-002 ¹ |
| 0180 | 35 | NA | FU by RD | Misc Structures Demo Design DCN-MSD2-013 |
| 0291 | 2 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| 0361 | 2 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0369 | 1 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0370 | 2 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0371 | 2 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0372A | 2 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| 0373 | 2 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| 0373B | 2 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| 0383 | 2 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0385 | 4 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0386 | 4 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0387 | 4 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0644 | 3 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| 0644A | 3 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| 0680 | 9 | NA | FU by RD | Misc Structures Demo Design DCN-MSD2-013 |
| 0688 | 3 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| 0702 | 5 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| 0811 | 24 | NA | FU by RD | Misc Structures Demo Design DCN-MSD2-003 |
| 0835 | 14 | NA | FU by RD | Miscellaneous Structures Demo Design |
| 0840 | 25 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD3-013 |
| 0841 | 12 | NFU-OCH | Future Use | Miscellaneous Structures Demo Design |
| 0853 | 30 | NFU-OCH | Future Use | Miscellaneous Structures Demo Design |
| 0884 | 6 | NFU-SCH | Future Use | Misc Structures Demo Design DCN-MSD3-003 |
| 0887 | 26 | NA | FU by RD | LWTS Closure Plan and Project CCR |
| 0892 | 26 | NA | FU by RD | Miscellaneous Structures Demo Design ¹ |
| 0893 | 26 | NA | FU by RD | Misc Structures Demo Design DCN-MSD2-0131 |
| NN0101 | 1 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| NN0501 | 5 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| NN0903 | 9 | Future Use | NA | Removed by Federal Aviation Administration |
| NN1213 | 12 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| NN2002 | 20 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |

Table 3.2-2 Future Use Structures Listing

| Structure Number | Section | ROD Designation | Use Refinement | Completion Documentation |
|---------------------|---------|-----------------|----------------|---|
| SS 0112 | 0 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0121 | 3 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0370 | 3 | Future Use | NA | Misc Structures Demo Design DCN-MSD2-013 ¹ |
| SS 0371 | 2 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| SS 0371B | 2 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| SS 0385 | 4 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| SS 0386 | 4 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| SS 0387 | 4 | Future Use | Future Use | Miscellaneous Structures Demo Design |
| SS 0670 | 3 | NA | FU by RD | Miscellaneous Structures Demo Design |
| SS 0673A | 3 | NA | FU by RD | Miscellaneous Structures Demo Design |
| SS 0673B | 36 | NA | FU by RD | Miscellaneous Structures Demo Design |
| SS 0791-2 | 11 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| SS 7C | 2 | NFU-OCH | Future Use | Misc Structures Demo Design DCN-MSD2-013 |
| SS 9619 | 35 | NA | FU by RD | Misc Structures Demo Design DCN-MSD3-004 |

¹Structure subsequently removed as part of facility operations

LWTS Landfill Wastewater Treatment System

NA Not Applicable

NFU-SCH No Future Use - Significant Contamination History NFU-OCH No Future Use - Other Contamination History

FU by RD Future Use - Remedial Design

Table 4.0-1 Remedy Project Status and Completion Dates

| WBS | Description | Status | Start Date | Finish Date |
|------------|--|-----------|-------------|----------------------|
| 2.01.01 | Hazardous Waste Landfill | | | |
| 2.01.01.02 | Design | Completed | 11-Mar-1996 | 24-Jun-2011 |
| 2.01.01.03 | Remediation (Construct/Ops/Closure) | Ongoing | 14-Nov-1997 | 31-Oct-2011 F |
| 2.01.01.04 | Short Term Monitoring And Maintenance | Completed | 1-Apr-2009 | 30-Nov-2010 |
| 2.01.01.47 | Remediation Biota / Priority 1 Soils Removal Completed 14-Nov-1997 | | 30-Sep-1998 | |
| 2.01.01.49 | Remediation Human Health Exceedance Soils | Completed | 27-Sep-1999 | 30-Mar-2006 |
| 2.01.02 | Enhanced Hazardous Waste Landfill | | | |
| 2.01.02.01 | Pre Design Activities | Completed | 13-Apr-1999 | 12-Aug-2003 |
| 2.01.02.02 | Design | Completed | 17-Nov-2000 | 25-Aug-2010 |
| 2.01.02.03 | Remediation (Construct/Ops/Closure) | Completed | 22-Aug-2003 | 24-Mar-2011 |
| 2.01.02.04 | Short Term Monitoring and Maintenance | Completed | 27-May-2010 | 30-Nov-2010 |
| 2.01.03 | Basin A Consolidation and Remediation | | | |
| 2.01.03.02 | Design | Completed | 3-Jun-1996 | 22-Apr-2008 |
| 2.01.03.03 | Remediation | Completed | 14-Nov-1997 | 1-Apr-2011 |
| 2.01.03.04 | Short Term Monitoring and Maintenance | Completed | 1-Oct-2008 | 30-Nov-2010 |
| 2.02.04 | Sanitary Sewer Manhole Plugging - Phase I | | | |
| 2.02.04.02 | Design | Completed | 3-Jun-1996 | 30-May-1997 |
| 2.02.04.03 | Remediation | Completed | 3-Sep-1997 | 30-Sep-1998 |
| 2.02.05 | SPCP / Complex Trench Chemical Sewer Plugging | | | |
| 2.02.04.02 | Design | Completed | 3-Jun-1996 | 30-May-1997 |
| 2.02.04.03 | Remediation | Completed | 3-Sep-1997 | 30-Sep-1998 |
| 2.02.06 | Shell / Complex Trench Slurry Walls | | | |
| 2.02.04.02 | Design | Completed | 3-Jun-1996 | 12-Sep-1997 |
| 2.02.04.03 | Remediation | Completed | 27-Apr-1998 | 30-Sep-2002 |
| 2.02.04.04 | Short Term Monitoring and Maintenance | Completed | 12-Mar-2001 | 30-Sep-2010 |
| 2.02.07 | Post-ROD Removal Actions for Structures | | | |
| 2.02.07.04 | Remediation | Completed | 3-Jun-1996 | 29-Sep-2000 |
| 2.03.08 | Toxic Storage Yards | | | |
| 2.03.08.02 | Design | Completed | 21-Apr-1998 | 17-Mar-1999 |
| 2.03.08.03 | Remediation | Completed | 3-May-1999 | 20-Jun-2000 |
| 2.03.09 | Existing Sanitary Landfills | | | |
| 2.03.09.02 | Design | Completed | 13-Aug-1997 | 19-May-2005 |
| 2.03.09.03 | Remediation | Completed | 22-Nov-1998 | 16-Aug-2005 |

F represents forecast completion date

| WBS | Description | Status | Start Date | Finish Date |
|------------|--|-----------|-------------|-------------|
| 2.03.10 | Lake Sediments | | | |
| 2.03.10.02 | Design | Completed | 29-Sep-1997 | 13-Oct-1998 |
| 2.03.10.03 | Remediation | Completed | 13-Dec-1998 | 20-Apr-2000 |
| 2.03.11 | Burial Trenches | | | |
| 2.03.11.02 | Design | Completed | 22-Aug-1997 | 13-Dec-1999 |
| 2.03.11.03 | Remediation | Completed | 28-Feb-2000 | 30-Sep-2004 |
| 2.03.12 | Munitions Testing Soils | | | |
| 2.03.12.02 | Design | Completed | 22-Aug-1997 | 3-Jul-2007 |
| 2.03.12.03 | Remediation | Completed | 01-Mar-2000 | 14-May-2009 |
| 2.03.13 | Miscellaneous Northern Tier Soils | | | |
| 2.03.13.02 | Design | Completed | 29-Sep-1997 | 13-Oct-1998 |
| 2.03.13.03 | Remediation | Completed | 22-Dec-1998 | 20-Apr-2000 |
| 2.03.14 | Miscellaneous Southern Tier Soils | | | |
| 2.03.14.02 | Design | Completed | 29-Sep-1997 | 22-Dec-2005 |
| 2.03.14.03 | Remediation | Completed | 22-Dec-1998 | 2-Sep-2008 |
| 2.03.15 | Section 36 Bedrock Ridge Extraction System | | | |
| 2.03.15.02 | Design | Completed | 24-Feb-1997 | 8-Jun-2006 |
| 2.03.15.03 | Remediation (Construction) | Completed | 19-May-1999 | 30-Sep-2008 |
| 2.03.16 | South Plants Structure Demolition | | | |
| 2.03.16.02 | Design | Completed | 28-Aug-1997 | 4-Oct-1999 |
| 2.03.16.03 | Remediation (Construction) | Completed | 22-Nov-1998 | 2-Jul-2002 |
| 2.03.17 | Miscellaneous RMA Structure Demolition | | | |
| 2.03.17.02 | Design | Completed | 2-Nov-1998 | 1-Nov-2007 |
| 2.03.17.03 | Remediation (Construction) | Completed | 24-Feb-2000 | 13-Jul-2011 |
| 2.06.17.50 | Drum Shredding | Completed | 28-Aug-2000 | 30-Sep-2002 |
| 2.04.18 | Buried M-1 Pits | | | |
| 2.04.18.01 | Pre Design | Completed | 16-Dec-1998 | 12-Apr-2000 |
| 2.04.18.02 | Design | Completed | 3-Jan-2000 | 25-Jan-2001 |
| 2.04.18.03 | Remediation | Completed | 9-Feb-2001 | 18-Jul-2002 |

| WBS | Description | Status | Start Date | Finish Date |
|------------|---|-----------|-------------|-------------|
| 2.04.19 | Hex Pit Soils | | | |
| 2.04.19.01 | Pre Design | Completed | 9-Sep-1996 | 17-Apr-2003 |
| 2.04.19.02 | Design | Completed | 8-Feb-2000 | 30-Oct-2003 |
| 2.04.19.03 | Remediation | Completed | 21-Mar-2001 | 21-Jul-2004 |
| 2.04.20 | South Plants BOA / CPA - Phase II | | | |
| 2.04.20.02 | Design | Completed | 1-Jun-1998 | 22-Apr-2008 |
| 2.04.20.03 | Remediation | Completed | 3-Dec-2001 | 26-Jan-2011 |
| 2.04.20.04 | Short Term Monitoring and Maintenance | Completed | 5-Oct-2009 | 30-Nov-2010 |
| 2.04.21 | South Plants BOA / CPA - Phase I | | | |
| 2.04.21.02 | | | 24-Mar-2000 | |
| 2.04.21.03 | Remediation | Completed | 28-Feb-2000 | 24-Sep-2002 |
| 2.05.22 | Sanitary Sewer Manhole Plugging - Phase II | | | |
| 2.05.22.02 | Design | Completed | 14-Jan-2002 | 24-Jan-2008 |
| 2.05.22.03 | Remediation (Construction) | Completed | 13-Dec-2007 | 17-Feb-2009 |
| 2.05.23 | Section 36 Balance of Areas | | | |
| 2.05.23.02 | Design | Completed | 19-Dec-2000 | 8-Jun-2006 |
| 2.05.23.03 | Remediation | Completed | 19-May-2003 | 22-Feb-2010 |
| 2.05.24 | Secondary Basins | | | |
| 2.05.24.02 | Design | Completed | 23-Aug-1999 | 31-Jan-2002 |
| 2.05.24.03 | Remediation | Completed | 21-Mar-2001 | 15-Jun-2009 |
| 2.05.25 | Complex Army Disposal Trenches | <u> </u> | | |
| 2.05.25.02 | Design | Completed | 17-Dec-2002 | 22-Apr-2008 |
| 2.05.25.03 | Remediation | Completed | 27-Jul-2005 | 26-Jan-2011 |
| 2.05.25.04 | Short Term Monitoring and Maintenance | Completed | 21-Sep-2009 | 30-Nov-2010 |
| 2.05.26 | Shell Disposal Trenches | | | |
| 2.05.26.02 | Design | Completed | 17-Dec-2002 | 22-Apr-2008 |
| 2.05.26.03 | Remediation | Completed | 4-Feb-2005 | 26-Jan-2011 |
| 2.05.26.04 | Short Term Monitoring and Maintenance | Completed | 29-Oct-2007 | 30-Nov-2010 |
| 2.05.27 | North Plants Soil Remediation | | | |
| 2.05.27.02 | Design | Completed | 5-Jun-2003 | 6-Jan-2009 |
| 2.05.27.03 | Remediation (included in NP Structure Demo) | Completed | NA | NA |

F represents forecast completion date

Table 4.0-1 Remedy Project Status and Completion Dates

| WBS | Description | Status | Start Date | Finish Date |
|------------|---|-----------|-------------|----------------------|
| 2.05.28 | Section 35 Soil Remediation | | | |
| 2.05.28.02 | Design | Completed | 1-Dec-1998 | 27-Sep-2005 |
| 2.05.28.03 | Remediation | Completed | 28-Jun-2002 | 2-Sep-2008 |
| 2.05.29 | North Plants Structure Demolition | | | |
| 2.05.29.02 | Design | Completed | 28-Feb-2000 | 28-Sep-2004 |
| 2.05.29.03 | Remediation | Completed | 21-Mar-2001 | 30-Sep-2004 |
| 2.06.30 | Basin F Wastepile | | | |
| 2.06.30.01 | Pre Design | Completed | 8-Feb-1999 | 31-Jan-2001 |
| 2.06.30.02 | 1 | | 2-Jun-2005 | |
| 2.06.30.03 | Remediation | Completed | 30-Mar-2005 | 15-Jun-2009 |
| 2.06.31 | Former Basin F | | | <u> </u> |
| 2.06.31.01 | Pre Design | Completed | 2-Apr-2001 | 6-Apr-2005 |
| 2.06.31.02 | Design | Completed | 19-Aug-2005 | 20-Dec-2007 |
| 2.06.31.03 | Remediation | Completed | 3-Apr-2007 | 16-Jul-2009 |
| 2.06.32 | Basin F / Basin F Exterior | | | |
| 2.06.32.02 | Design | Completed | 23-Aug-1999 | 14-May-2008 |
| 2.06.32.03 | Remediation | Completed | 20-Dec-2001 | 25-Aug-2011 |
| 2.06.32.04 | Short Term Monitoring and Maintenance | Completed | 8-Sep-2009 | 30-Nov-2010 |
| 2.06.33 | Section 36 Lime Basins | <u> </u> | | |
| 2.06.33.01 | Pre Design | Completed | 12-Apr-1999 | 7-Nov-2006 |
| 2.06.33.02 | Design | Completed | 8-Oct-2001 | 22-Apr-2008 |
| 2.06.33.03 | Remediation | Completed | 20-Apr-2007 | 26-Jan-2011 |
| 2.06.33.04 | Short Term Monitoring and Maintenance | Completed | 14-Sep-2009 | 30-Nov-2010 |
| 2.07.34 | RCRA-Equivalent Cover Demonstration Project | | | |
| 2.07.34.01 | Pre Design | Completed | 3-Jun-1996 | 4-Sep-2001 |
| 2.07.35 | Borrow Areas | - | | |
| 2.07.35.02 | Design Activities | Completed | 28-Aug-1997 | 30-Dec-2010 |
| 2.07.35.03 | Construction/Operations/Closure | Completed | 28-Aug-1997 | 30-Dec-2010 |
| 2.07.38 | Site-Wide Biota Monitoring | | | <u> </u> |
| 2.07.38.04 | Short Term Monitoring and Maintenance | Ongoing | 11-Jun-1996 | 15-Feb-2012 F |

| WBS | Description | Status | Start Date | Finish Date |
|------------|---|-----------|-------------|----------------------|
| 2.07.39 | Site-Wide Air Monitoring | | | |
| 2.07.39.04 | Short Term Monitoring and Maintenance | Completed | 11-Jun-1996 | 30-Sep-2010 |
| 2.07.41 | Site-Wide Plume Monitoring | | | |
| 2.07.41.04 | Short Term Monitoring and Maintenance | Ongoing | 11-Jun-1996 | 27-Jan-2012 F |
| 2.07.42 | Confined Flow System Monitoring | | | |
| 2.07.41.04 | Short Term Monitoring and Maintenance | Completed | 11-Jun-1996 | 18-Jan-2011 |
| 2.07.43 | Medical Monitoring Program | | | |
| 2.07.41.04 | Short Term Monitoring and Maintenance | Ongoing | 6-Dec-1995 | 12-Oct-2011 F |
| 2.07.63 | Site-Wide Traffic Management | | | |
| 2.07.63.02 | Design | Completed | 28-Aug-1997 | 27-May-2005 |
| 2.07.63.03 | Remediation/Construction/Operations/Removal | Completed | 4-Aug-1998 | 31-May-2011 |
| 2.07.64 | Site-Wide Geophysical Investigation | | 1 | |
| 2.07.64.01 | Pre Design Activities | Completed | 23-Mar-1998 | 01-Feb-1999 |
| 2.07.65 | Unexploded Ordnance Disposal | | | |
| 2.07.65.03 | Remediation Activities | Completed | 1-Jan-1999 | 29-Jul-2011 |
| 2.07.66 | Biota Barrier Material | | | |
| 2.07.66.02 | Design Activities | Completed | NA | NA |
| 2.07.66.03 | Remediation Activities | Completed | 25-Sep-2000 | 18-Mar-2005 |
| 2.07.67 | Permanent Revegetation /Irrigation Support | | | |
| 2.07.67.02 | Design Activities | Completed | 3-Nov-1998 | 3-Nov-2009 |
| 2.07.67.03 | Remediation Activities | Ongoing | 7-Dec-1998 | 30-Dec-2011 F |
| 2.07.68 | Drummed Waste Handling | | | |
| 2.07.68.02 | Design Activities | Completed | 1-Dec-1998 | 28-Apr-2000 |
| 2.07.69 | Well Abandonment / Retention Program | | | |
| 2.07.69.04 | Short Term Monitoring and Maintenance | Completed | 23-Jan-2002 | 29-Jul-2005 |
| 2.08.44 | SACWSD Water Supply | | | |
| 2.08.44.04 | Short Term Monitoring and Maintenance | Completed | 6-Oct-1996 | 28-Apr-2000 |

Table 4.0-1 Remedy Project Status and Completion Dates

| WBS | Description | Status | Start Date | Finish Date |
|------------|---|-----------|-------------|----------------------|
| 2.08.45 | On-Post Water Supply | | | |
| 2.08.45.01 | Pre Design | Completed | 3-Jun-1996 | 5-Oct-2004 |
| 2.08.46 | Confined Flow System Well Closure | | | |
| 2.08.46.02 | Design Activities | Completed | 2-Sep-1997 | 12-Jan-1999 |
| 2.08.46.03 | Remediation Activities | Completed | 22-Mar-1999 | 27-Sep-2000 |
| 2.08.47 | Irondale / RY MP Containment System | | | |
| 2.08.47.04 | Short Term Monitoring and Maintenance | Ongoing | 11-Jun-1996 | 30-Sep-2011 F |
| 2.08.48 | Basin A Neck System | | | |
| 2.08.48.04 | Short Term Monitoring and Maintenance | Ongoing | 11-Jun-1996 | 7-Jan-2012F |
| 2.08.49 | CERCLA Wastewater Treatment Facility | | | |
| 2.08.49.04 | Short Term Monitoring and Maintenance | Completed | 11-Jun-1996 | 23-Jun-2010 |
| 2.08.50 | Northwest Boundary System | | | |
| 2.08.50.04 | Short Term Monitoring and Maintenance | Completed | 11-Jun-1996 | 1-Oct-2010 |
| 2.08.51 | North Boundary System | | | |
| 2.08.51.04 | Short Term Monitoring and Maintenance | Completed | 11-Jun-1996 | 21-Dec-2010 |
| 2.08.52 | South Lakes Plume Management | | | |
| 2.08.52.04 | Short Term Monitoring and Maintenance | Completed | 11-Jun-1996 | 18-Jan-2011 |
| 2.08.77 | Groundwater Mass Removal System | | | |
| 2.08.77.04 | Short Term Monitoring and Maintenance | Ongoing | 14-Mar-2005 | 27-Oct-2011F |
| 2.08.78 | North Plants LNAPL Recovery | | | |
| 2.08.78.04 | Short Term Monitoring and Maintenance | Ongoing | 14-Jan-2008 | 2-Dec-2011F |
| 2.08.79 | Lime Basins DNAPL Investigation | | | |
| 2.08.79.01 | Pre Design Activities | Ongoing | 30-Nov-2009 | 13-Jun-2011 |
| 2.09.54 | Program Management | Ongoing | 11-Jun-1996 | 28-Sep-2012 F |
| 2.09.55 | Remedy Support and Operations | Ongoing | 11-Jun-1996 | 28-Sep-2012 F |
| 2.09.56 | Remedy Execution | Ongoing | 11-Jun-1996 | 28-Sep-2012F |
| 2.09.57 | US Fish and Wildlife / Habitat Mitigation | Ongoing | 11-Jun-1996 | 30-Sep-2011 F |
| 2.09.58 | Program Controls | Ongoing | 11-Jun-1996 | 28-Sep-2012 F |

| WBS | Description | Status | Start Date | Finish Date |
|------------|---|-----------|-------------|----------------------|
| 2.09.59 | Public Outreach | Ongoing | NA | NA |
| 2.09.72 | Five Year Reviews | Ongoing | 1-Nov-1999 | 14-Oct-2011 F |
| 2.09.76 | Environmental Management System | Ongoing | 24-Apr-2008 | 17-Nov-2011 F |
| 2.10.xx | Party Only Program Management | Ongoing | 11-Jun-1996 | 30-Sep-2011 F |
| 2.12.70 | RMA Remedial Action Summary Report | Ongoing | 16-Feb-2011 | 30-Sep-2011 F |
| 3.11.60 | RMA Off-Post Surficial Soil | | | |
| 3.11.60.03 | Remediation Activities | Completed | 4-Mar-1996 | 26-Aug-1997 |
| 3.11.61 | RMA Off-Post Water Treatment System | | | |
| 3.11.61.04 | Short Term Monitoring and Maintenance | Completed | 11-Jun-1996 | 29-Oct-2010 |
| 3.11.62 | RMA Off-Post Well Closure | | | |
| 3.11.62.02 | Design Activities | Completed | NA | NA |
| 3.11.62.03 | Remediation Activities | Completed | 3-Jun-1996 | 30-Sep-1999 |
| 4.01.01 | Hazardous Waste Landfill | Ongoing | | |
| 4.01.02 | Enhanced Hazardous Waste Landfill | Ongoing | | |
| 4.01.03 | Integrated Cover System | Ongoing | | 1 |
| 4.01.04 | Basin F Cover | Ongoing | | |
| 4.02.05 | North Boundary System | Operating | | |
| 4.02.06 | Northwest Boundary System | Operating | | |
| 4.02.07 | Basin A Neck System | Operating | | |
| 4.02.08 | Rail Yard | Operating | | |
| 4.02.09 | Off-Post Water Treatment Facility | Operating | | |
| 4.03.10 | Site-Wide Plume Monitoring | Ongoing | | |
| 4.03.11 | Medical Monitoring Program | Ongoing | | |
| 4.03.12 | Well Abandonment/Maintenance | Ongoing | | |
| 4.03.13 | Analytical Coordination | Ongoing | | |
| 4.03.14 | Five-Year Reviews/Closeout Reports | Ongoing | | |
| 4.03.15 | Land Use Control Monitoring/Reporting | Ongoing | | |
| 4.03.16 | RMA Facility Operations and Maintenance | Ongoing | | |
| 4.03.17 | RMA Facility Operations - IJOs | Ongoing | | |
| 4.03.18 | Operations Waste Management | Ongoing | | |
| 4.04.19 | Regulatory Oversight | Ongoing | | |
| 4.04.20 | Data Management/Information systems | Ongoing | | |
| 4.04.21 | Remedy Operations Oversight | Ongoing | | |
| 4.04.22 | Utilities | Ongoing | | |
| 4.04.23 | Land Transfers | Ongoing | | 1 |

F represents forecast completion date

| WBS | Description | Status | Start Date | Finish Date |
|---------|--|---------|------------|-------------|
| 4.04.24 | OMC Management | Ongoing | | |
| 4.04.25 | USFWS Support | Ongoing | | |
| 4.04.26 | Program Controls | Ongoing | | |
| 4.04.27 | Health & Safety | Ongoing | | |
| 4.04.28 | Security | Ongoing | | |
| 4.04.29 | Public Outreach | Ongoing | | |
| 4.04.30 | Contracting | Ongoing | | |
| 4.04.31 | Compliance/QA | Ongoing | | |
| 4.04.32 | Central Repository/Business Management | Ongoing | | |
| 4.04.33 | Legal Office | Ongoing | | |
| 4.04.34 | Program Manager | Ongoing | | |

Table 5.2.2-1 Uncontaminated Borrow Material Volumes

| Borrow Area | WBS Project Number | Project | Volume (bcy) |
|----------------|--------------------------|--|--------------|
| 1 | 9 | Existing (Sanitary) Landfills Remediation (Sections 1 & 4) | 44,972 |
| - | 17 | Miscellaneous RMA Structures Demolition | 6,825 |
| | 11 | Burial Trenches Soil Remediation (Section 4) | 3,634 |
| | | Borrow Area 1 Total | 55,431 |
| 2 | NA | Borrow Area Reserved (not used) | |
| 3 | 18 | Buried M-1 Pits Soil Remediation | 18,015 |
| | 24 | Secondary Basin Soil Remediation (Part 1) | 8,200 |
| 1 | NA | U.S. Fish and Wildlife Service (USFWS) | 780 |
| | 24 | Secondary Basins (Part 2) / Section 35 Soil Remediation | 16,800 |
| | 1,3 | Basin A and HWL Operations | 62,933 |
| | NA | U.S. Fish and Wildlife Service (Basin E Berm) | 1,000 |
| | 19 | Hex Pit Soil Remediation (redesign) | 5,700 |
| <u> </u> | 17 22 14 | Miscellaneous RMA Structures Demolition and Removal Project Phase II, | |
| | 17,23,14, 32 | Section 36 Balance of Areas and Deep Acute Excavation Areas Project | 22.004 |
| | | (Basin F Exterior and Miscellaneous Southern Tier Soils) | 23,084 |
| | 1,3 | Basin A and HWL Operations | 23,313 |
| | 30 | Basin F Drying Facility | 32,505 |
| | 14 | Sand Creek Lateral (backfill) | 73,781 |
|] | 3 | Integrated Cover System (ICS) Gradefill (Basin A North) | 215,147 |
| 1 | 30 | Basin F Wastepile Remediation (Backfill and final contours) | 108,347 |
| | 3 | Basin A Notch | 100,000 |
| | 21 | ICS 2-foot and 3-foot Covers | 1,093,968 |
| | 3,20,23, | ICS Gradefill/Backfill [Basin A, Complex (Army) Trenches (CAT), South Plants Central Processing Area (CPA), Section 36 BOA, and Lime Basins] | 542,600 |
| | 25,33 | Borrow Area 3 Total | 2,326,173 |
| 4 | 2 | ELF Operations | 149,865 |
| , | 3 | ICS RCRA-Equivalent Cover | 226,990 |
| 1 | 2 | ELF Cap | 279,894 |
| | 32 | Basin F (RCRA-Equivalent Cover) and Frost Protection Layer | 425,196 |
| | | Borrow Area 4 Total | 1,081,945 |
| 5 | 63 | Stage I Haul Roads | 5,750 |
| | 1 | Excavation of Corrective Action Management Unit (CAMU) Soils | 20,460 |
| | NA | Lake Ladora Spillway Reconstruction | 16,700 |
| | 1 | HWL Construction - Cell 1 | 283,100 |
| | 63 | Stage II Haul Roads | 7,860 |
| | 1 | HWLConstruction - Cell 2 | 471,700 |
| | li | HWL Operations | 5,600 |
| | 2 | ELF (compacted clay liner) | 288,703 |

Table 5.2.2-1 Uncontaminated Borrow Material Volumes

| Borrow Area | WBS Project Number | Project." | Volume (bcy) |
|----------------|--------------------------|---|--------------|
| 5 (cont.) | 2 | ELF(compacted clay liner) | 172,739 |
| | 2 | ELF Operations (associated with Sanitary Sewer Line) | 174,830 |
| | 1 | HWL RCRA Cap | 654,584 |
| | 2 | ELF Cap | 23,527 |
| | • | Borrow Area 5 Total | 2,125,553 |
| 6 | NA | Borrow Area characterized as RER soil, no uncontaminated soil removed | |
| 7A | 1 | Excavation of CAMU Soils | 28,491 |
| | 63 | Stage II Haul Roads | 6,600 |
| | 3 | Basin A Operations Facility (Construction) | 15,000 |
| | 3 | Basin A Consolidation and Remediation (Operations Subcontractor) | |
| | | 2000 Usage | 99,421 |
| | | 2001 Usage | 163,659 |
| | | 2002 Usage | 86,423 |
| | 1 | HWL Operations | |
| | | 2001 Usage | 26,911 |
| | | 2002 Usage | 24,910 |
| | 24,28 | Secondary Basins (Part 2)/Section 35 Soil Remediation | 2,000 |
| | 32 | Basin F Exterior Soils Remediation | 53,800 |
| | 29 | North Plants Structure Demolition and Removal (backfill) | 33,807 |
| | 29 | North Plants Structure Demolition and Removal (backfill) | 57,000 |
| | 1,3 | Disposal Facility Operations (Basin A and HWL) | |
| | | Borrow Area 7A Total | 598,022 |
| 7B | 9 | Section 36 Existing Sanitary Landfills | 8,700 |
| | | Borrow Area 7B Total | 8,700 |
| 8 | NA | Borrow Area characterized as RER soil, no uncontaminated soil removed | |
| 9A | 23 | Section 36 Balance of Areas (Part 1) | 11,086 |
| | | Borrow Area 9A Total | 11,086 |
| 9B | NA | Borrow Area not used; incorporated into Section 36 BOA final grade design | |
| 9C (3) | 25 | Stockpiled for RCRA-Equivalent cover adjacent to CAT | 73,700 |
| | | | 73,700 |
| 10 | 6 | Shell/Complex Trench Slurry Walls (from abovegrade berms) | 59,346 |
| 1 | 63 | Stage I Haul Roads (from abovegrade berms) | 25,500 |
| 1 | 8 | Toxic Storage Yard (ESA-3a, -3b) (from abovegrade berms) | 8,505 |
| | 3 | Basin A Consolidation and Remediation (Operations Subcontractor) | 1 |
| | | 2000 Usage | 86,931 |

Table 5.2.2-1 Uncontaminated Borrow Material Volumes

| Borrow Area | WBS Project Number | Project. | Volume (bcy) |
|----------------|--------------------------|--|--------------|
| 10 (cont.) | | 2001 Usage | 164,875 |
| ļ | 11 | Burial Trenches Soils (ESA-2a-4, -5, -6, -7) (from abovegrade berms) | 16,170 |
| | 1 | HWL Operations - 2001 Usage | 30,031 |
| | 11 | Burial Trenches Soils (Secs 29, 30 and 32) | 21,340 |
| | 20,21 | South Plants Subgrade | 28,270 |
| | 25 | CAT Remediation (gradefill) | 183,416 |
| | 26 | ICS RCRA Cover (Shell) - Two Stockpiles | 131,187 |
| | 11 | Burial Trenches Soils - Demo Pits | 500 |
| | 17 | Miscellaneous RMA Structures Demolition and Removal Project Phase III - Asbestos Containing Material (ACM) Trenches | 9,004 |
| | 3,20,25,33 | ICS RCRA Equivalent Covers (Basin A, CAT, South Plants CPA, and Lime Basins) | 1,920,676 |
| | 3,25 | Perimeter gradefill (CAT and North Basin A) | 128,453 |
| | | Borrow Area 10 Total | 2,814,204 |
| 11 | 25 | South Plants Soil Remediation for gradefill in CAT | 39,993 |
| | | Borrow Area 11 Total | 39,993 |
| 12 | 1 | HWL Excavation | 704,260 |
| | 1 | CAMU Soil Remediation | 8,818 |
| | | Borrow Area 12 Total | 713,078 |
| | | Total Uncontaminated Borrow Material Volume Used | 9,847,885 |

Note: Project Number represents WBS Level 3 number.

Table 7.0-1 Remedial Project O&M Requirements

| WBS | Long- Term WBS | Project Name | Status August 31, 2011 | Operation and Maintenance Requirement |
|---------|----------------------|---|---------------------------------------|--|
| 2.01.01 | 4.01.01 | Hazardous Waste Landfill Cap Construction | Completed, Post-Closure O&M | Landfill inspections and maintenance required per HWL Post-Closure Plan Manage the storage and disposal of leachate per HWL Post-Closure Plan Monitor leachate collection and leak detection systems per HWL Post-Closure Plan Groundwater monitoring and well maintenance and repairs per HWL Post-Closure Plan |
| 2.01.02 | 4.01.02 | Enhanced Hazardous Waste Landfill Cap Construction | Completed, Post-Closure O&M | Landfill inspections and maintenance required per ELF Post-Closure Plan Manage the storage and disposal of leachate per ELF Post-Closure Plan Monitor leachate collection and leak detection systems per ELF Post-Closure Plan Groundwater monitoring and well maintenance and repairs per ELF Post-Closure Plan |
| 2.01.03 | 4.01.03 | Integrated Cover System, Basin A Consolidation and Remediation Area | Completed, Interim O&M | Cover inspections and maintenance, percolation monitoring, and vegetation assessment required per the LTCP (long-term O&M once O&F determination is made) |
| 2.02.04 | 4.03.15 | Sanitary and Chemical Sewer Manhole Plugging Phase I | Completed | Inspect sanitary sewer markers in accordance with the Land Use Control Plan |
| 2.02.06 | 4.03.10 | Shell Disposal Trenches Slurry Walls (Dewatering) | Operating, Long-Term Monitoring | Water level monitoring per LTMP Well maintenance and repairs performed as needed per LTMP |
| 2.02.06 | 4.02.07 | Complex (Army) Disposal Trenches Slurry Walls (Dewatering) | Operating, Long-Term Monitoring | Water level monitoring per LTMP Well maintenance and repairs performed as needed per LTMP |
| 2.03.14 | 4.03.15 | Miscellaneous Southern Tier Soil Remediation | Completed | Prevent excavation of contaminated soils and sediments at site SSA-3b in accordance with the Land Use Control Plan |
| 2.03.15 | 4.02.07 | Bedrock Ridge Extraction System | Operating, Long-Term O&M | Water level and water quality monitoring per LTMP Extraction system O&M per BANS Operations and Maintenance Manual Well maintenance and repairs performed as needed per LTMP |

Table 7.0-1 Remedial Project O&M Requirements

| WBS | Long- Term WBS | Project Name | Status August 31, 2011 | Operation and Maintenance Requirement |
|--------------------|----------------------|--|-----------------------------------|--|
| 2.04.20 2.04.21 | 4.01.03 | Integrated Cover System, South Plants Balance of Areas and Central Processing Area | Completed, Interim O&M | Cover inspections and maintenance, percolation monitoring, and vegetation assessment required per the LTCP (long-term O&M once O&F determination is made) |
| 2.05.22 | 4.03.15 | Sanitary Sewer Manhole Plugging Project Phase II | Completed | Inspect sanitary sewer markers in accordance with the Land Use Control Plan |
| 2.05.23 | 4.01.03 | Section 36 Balance of Areas Soil Remediation | Completed, O&M | Inspect and maintain areas in accordance with the LTCP |
| 2.05.25 | 4.01.03 | Integrated Cover System, Complex (Army) Disposal Trenches Remediation Cover | Completed, Interim O&M | Cover inspections and maintenance, percolation monitoring, and vegetation assessment required per the LTCP (long-term O&M once O&F determination is made) |
| 2.05.26 | 4.01.03 | Shell Disposal Trenches RCRA-Equivalent Cover Construction | Completed, Interim O&M | Cover inspections and maintenance, percolation monitoring, and vegetation assessment required per the LTCP (long-term O&M once O&F determination is made) Monitor soil moisture content (Soil Cover Moisture Monitoring System Operations and Maintenance Plan) per the LTCP |
| 2.05.26 | 4.01.03 | Integrated Cover System, Shell Disposal Trenches 2-foot Soil Covers | Completed, Interim O&M | Cover inspections and maintenance required per the LTCP (long-term O&M once O&F determination is made) |
| 2.06.32 | 4.01.04 | Basin F/Basin F Exterior RCRA-Equivalent Cover Construction (Basin F Cover) | Completed, Post-Closure O&M | Cover inspections and maintenance, percolation monitoring, and vegetation assessment required per the LTCP and Basin F Post-Closure Plan Groundwater monitoring per Basin F Post-Closure Plan Well maintenance and repairs performed as needed per LTMP |
| 2.06.33 | 4.01.03 | Integrated Cover System, Section 36 Lime Basins Cover | Completed, Interim O&M | Cover inspections and maintenance, percolation monitoring, and vegetation assessment required per the LTCP (long-term O&M once O&F determination is made) |
| 2.06.33 | 4.02.07 | Section 36 Lime Basins Soil Remediation Slurry/Barrier Wall, including Lime Basins Dewatering Wells | Operating, Long-Term O&M | Maintain positive hydraulic gradient from the outside to the inside of the barrier wall Water level monitoring per LTMP Pump and treat groundwater to meet dewatering goals. Extraction system O&M per Basin A Neck Treatment System Operations and Maintenance Manual Well maintenance and repairs performed as needed per LTMP |

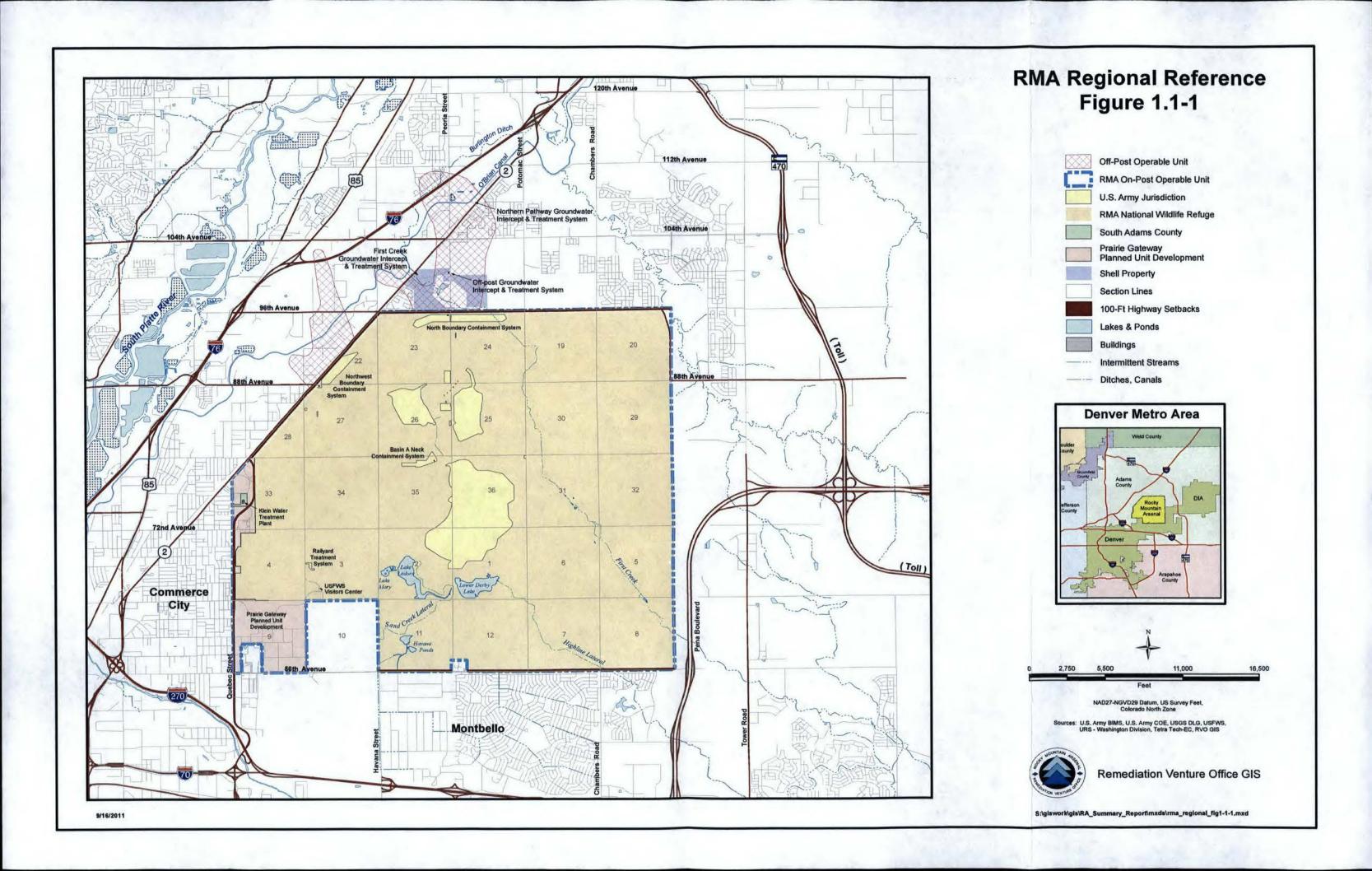
Table 7.0-1 Remedial Project O&M Requirements

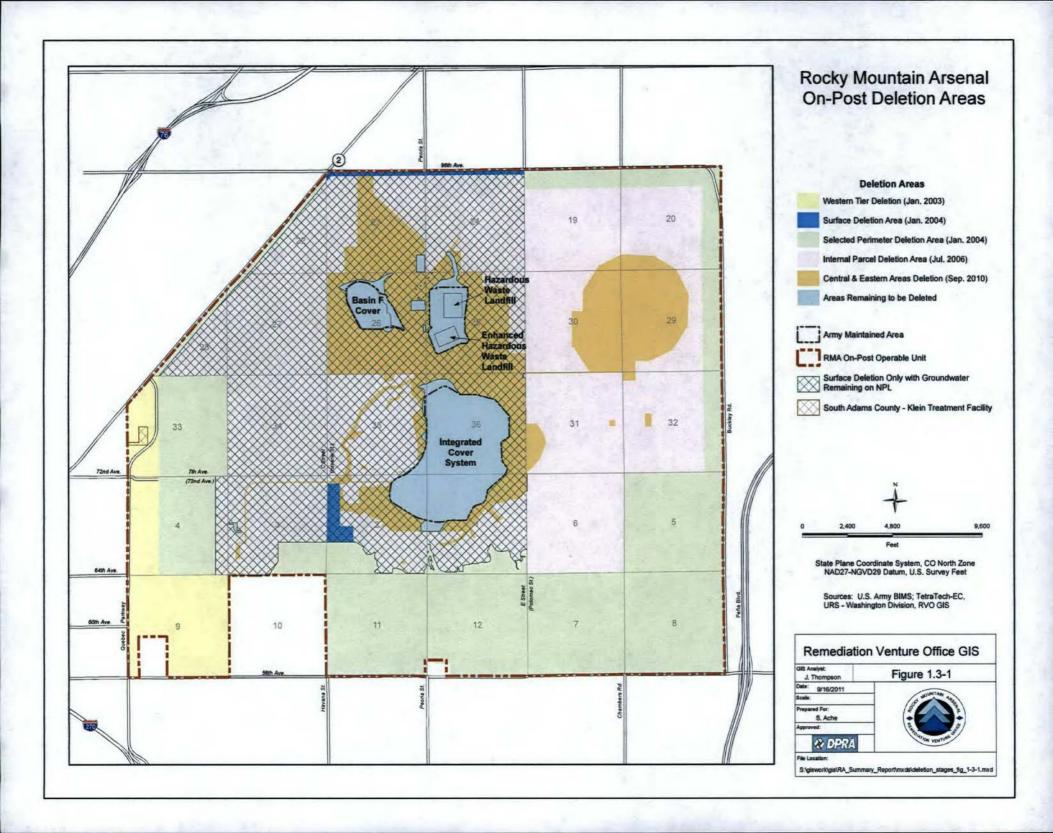
| WBS | Long- Term WBS | Project Name | Status August 31, 2011 | Operation and Maintenance Requirement |
|--------------------|----------------------|---|---------------------------|---|
| 2.07.41 2.07.42 | 4.03.10 | Site-Wide Groundwater Monitoring (includes CFS and off-post monitoring) | Ongoing | On- and off-post water level and water quality monitoring per LTMP Well maintenance and repairs performed as needed per LTMP |
| 2.07.41 | 4.03.10 | Off-Post Surface Water Monitoring | Ongoing | Assess contaminant concentration reduction and remedy performance through surface water sampling at two locations and at frequencies specified in the LTMP |
| 2.07.65 | NA | Unexploded Ordnance (UXO) Management | As Needed | Manage the potential to encounter military munitions, or remnants thereof, on RMA in accordance with the Response Plan for Recovered Material Potentially Presenting an Explosive Hazard (MPPEH) (TtEC 2010k) and RMA Incident and Emergency Management Policy and Contingency Plan (RVO 2010b) |
| 2.07.69 | 4.03.12 | Site-Wide Well Abandonment/Retention | Ongoing | Well retention per LTMP |
| 2.08.44 | NA | South Adams County Water Supply | As Needed | Provide connection to water distribution system, deep well, or other permanent solution if potable wells are found to have DIMP concentration greater than 8 ppb |
| 2.08.47 | 4.03.10 | Irondale Containment System Motor Pool Area Treatment System | Operations Completed | Continue post-shut-off monitoring per LTMP and Motor Pool Post-Shut-Off Monitoring SAP |
| 2.08.47 | 4.02.08 | Railyard Containment System | Operating | Continued operation of groundwater containment system in accordance with the Railyard Treatment System Operations and Maintenance Manual, Volume 1 Water level and water quality monitoring per LTMP Well maintenance and repairs performed as needed per LTMP |
| 2.08.48 | 4.02.07 | Basin A Neck System | Operating | Continued operation of groundwater extraction and treatment systems to achieve mass removal goals Water level and water quality monitoring per LTMP Treatment system and well maintenance and repairs performed as needed per Basin A Neck Treatment System Operations and Maintenance Manual and LTMP |
| 2.08.50 | 4.02.06 | Northwest Boundary Containment System | Operating | Continued operation of groundwater extraction and treatment system to achieve CSRG/PQLs and system shut-down criteria Operate system to maintain plume capture and reverse hydraulic gradient Water level and water quality monitoring per LTMP Treatment system and well maintenance and repairs performed as needed per the NWBCS Operations and Maintenance Manual and LTMP |

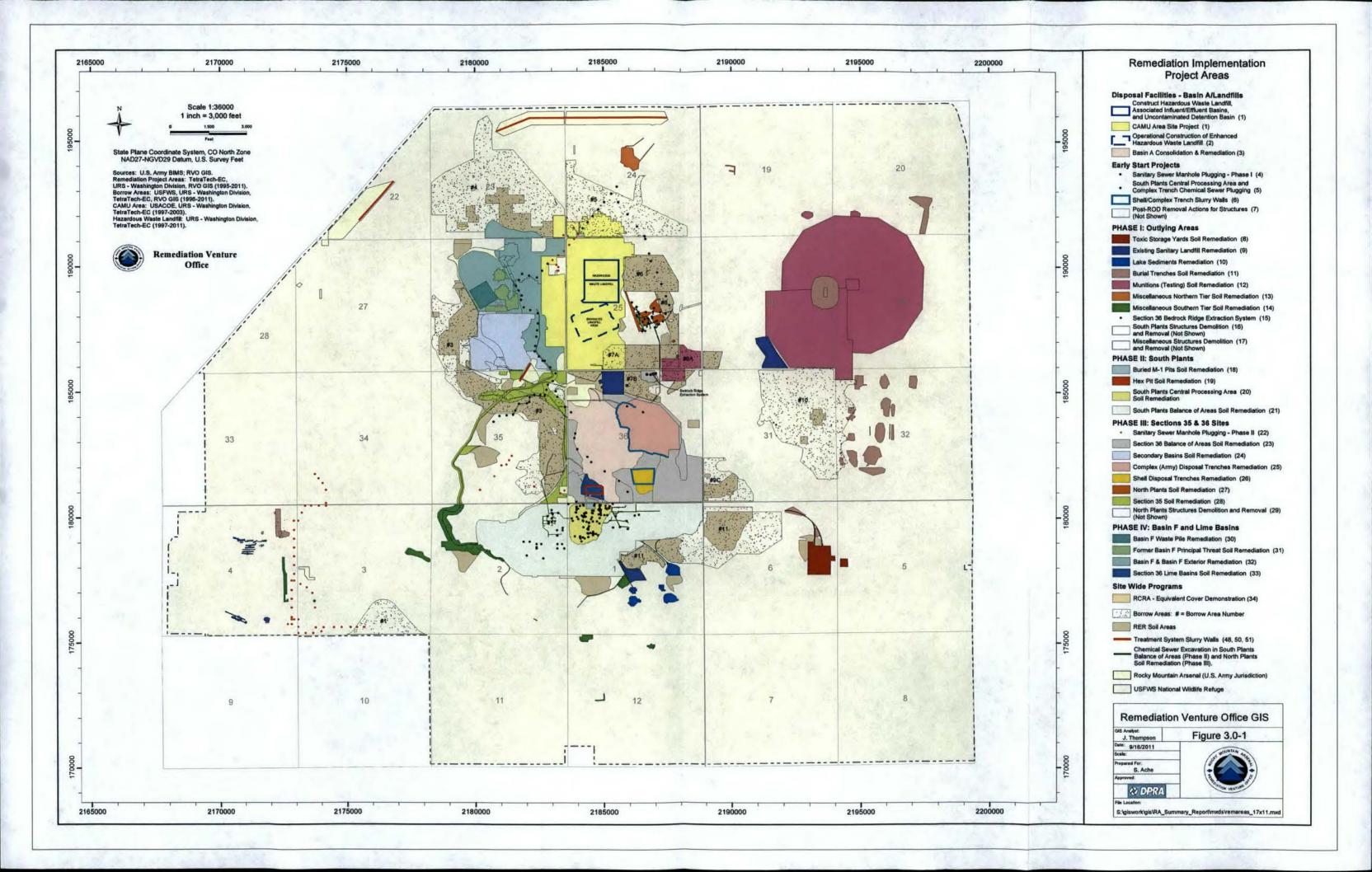
Table 7.0-1 Remedial Project O&M Requirements

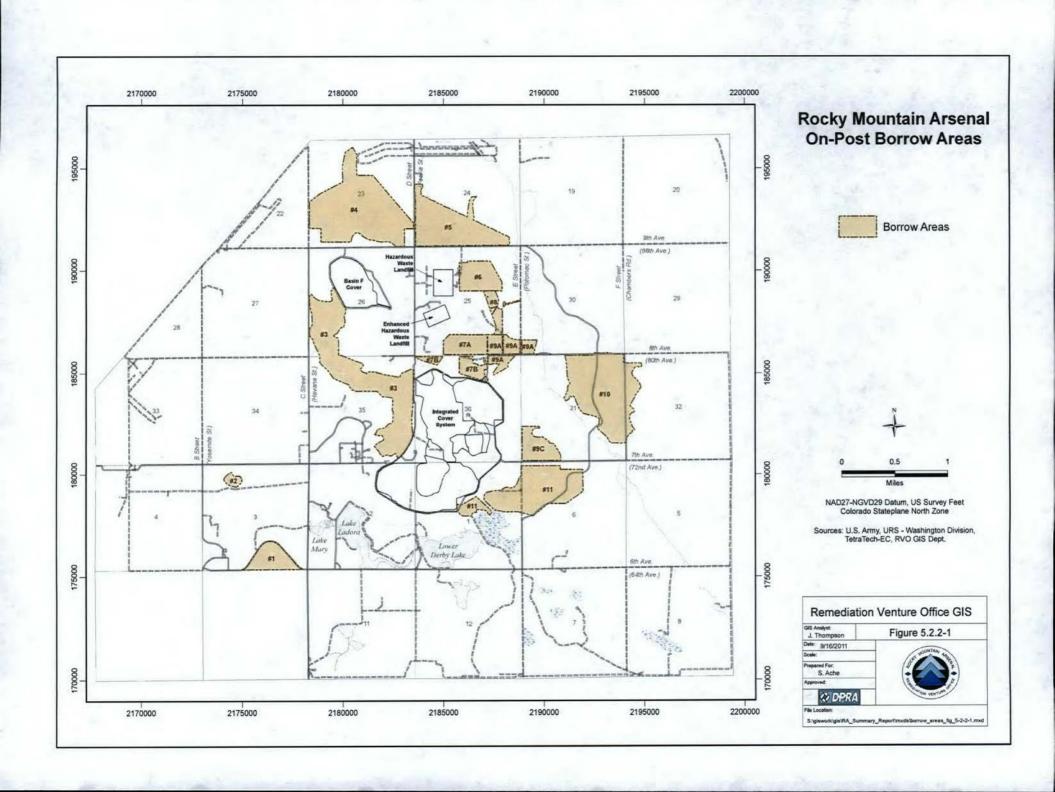
| WBS | Long- Term WBS | Project Name | Status August 31, 2011 | Operation and Maintenance Requirement |
|---------|----------------------|---|---------------------------|--|
| 2.08.51 | 4.02.05 | North Boundary Containment System | Operating | Continued operation of groundwater extraction and treatment system to achieve CSRG/PQLs and system shut-down criteria |
| | | | | Operate system to maintain plume capture and reverse hydraulic gradient |
| | | | | Water level and water quality monitoring per LTMP |
| | | | | Treatment system and well maintenance and repairs performed as needed per the NBCS Operations and Maintenance Manual and LTMP |
| 2.09 | 4.03.15 | Off-Post Institutional Controls | Ongoing | Lock and protect off-post wells |
| | | | | Prepare and submit updated CSRG exceedance and notification maps after each sampling round for the State Engineer's Well Notification Program in accordance with the Land Use Control Plan |
| | | | | Prepare updates to notification maps and continue to assure the State Engineer's Office is provided with the necessary information to implement the off-post well notification program |
| | | | | Prohibit drilling new alluvial wells and use of deeper groundwater underlying the Shell Property until groundwater contamination no longer exceeds CSRGs |
| 2.09 | 4.03.15 | Land Use Controls | Ongoing | Annual monitoring and reporting in accordance with the Land Use Control Plan |
| | | | : | Maintain primary land use restrictions per the FFA and ROD |
| | | | | Prohibit use of basements without appropriate feasibility study |
| | | | | Prevent excavation of SSA-3b; maintain signs at site |
| | | | | Maintain sanitary sewer markers |
| | | | | Ensure protection of groundwater remedial action structures |
| 2.09 | 4.03.14 | CERCLA Five-year Reviews | Ongoing | Statutory requirement (includes On-Post and Off-Post OUs) |
| 3.11.61 | 4.02.09 | Off-Post Groundwater Intercept and Treatment | Operating | Continued operation of groundwater extraction and treatment system to achieve mass removal goals |
| | | System | | Water level and water quality monitoring per LTMP |
| | | | | Treatment system and well maintenance and repairs performed as needed per Off- Post Groundwater Intercept and Treatment System Operations and Maintenance Manual |
| 2.09 | 4.04.19 | Private Well Network | Operating | Water level and water quality monitoring per LTMP in cooperation with TCHD |

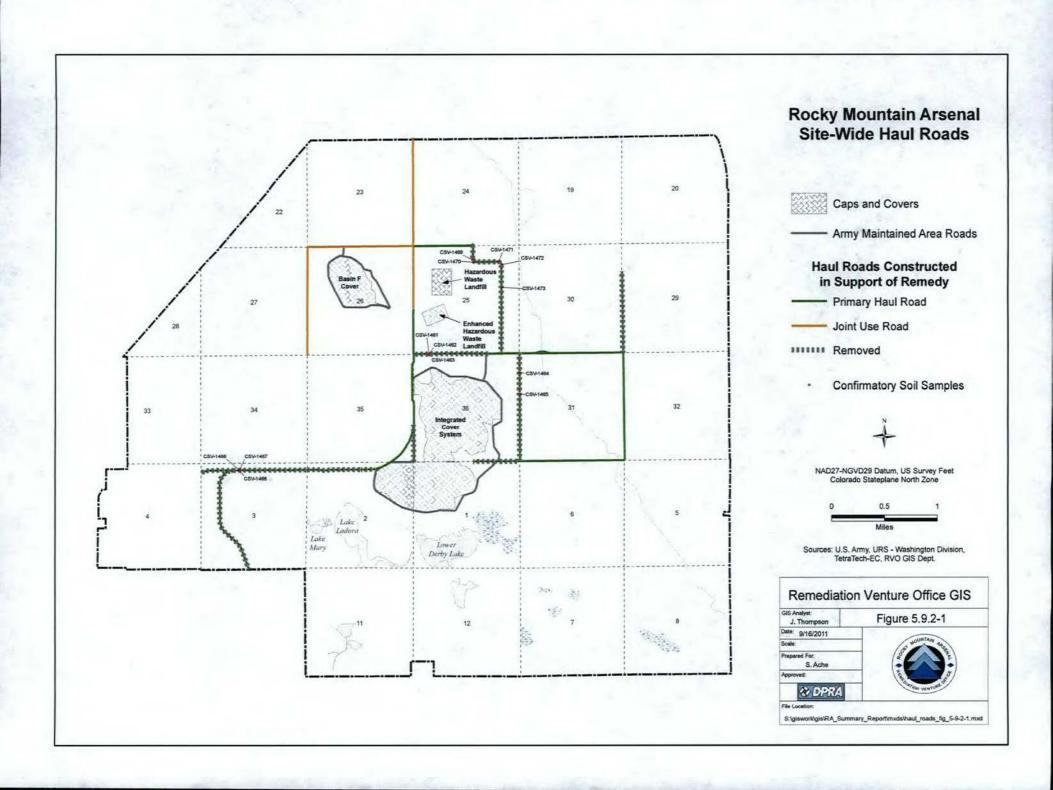
FIGURES

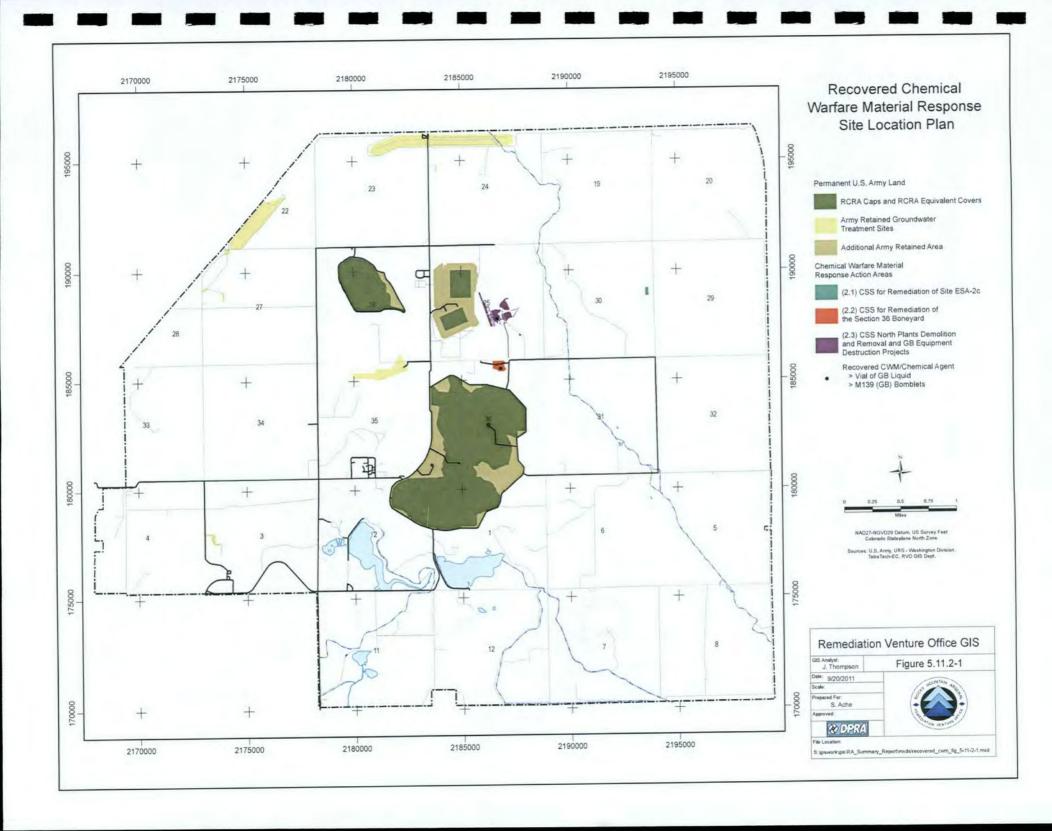


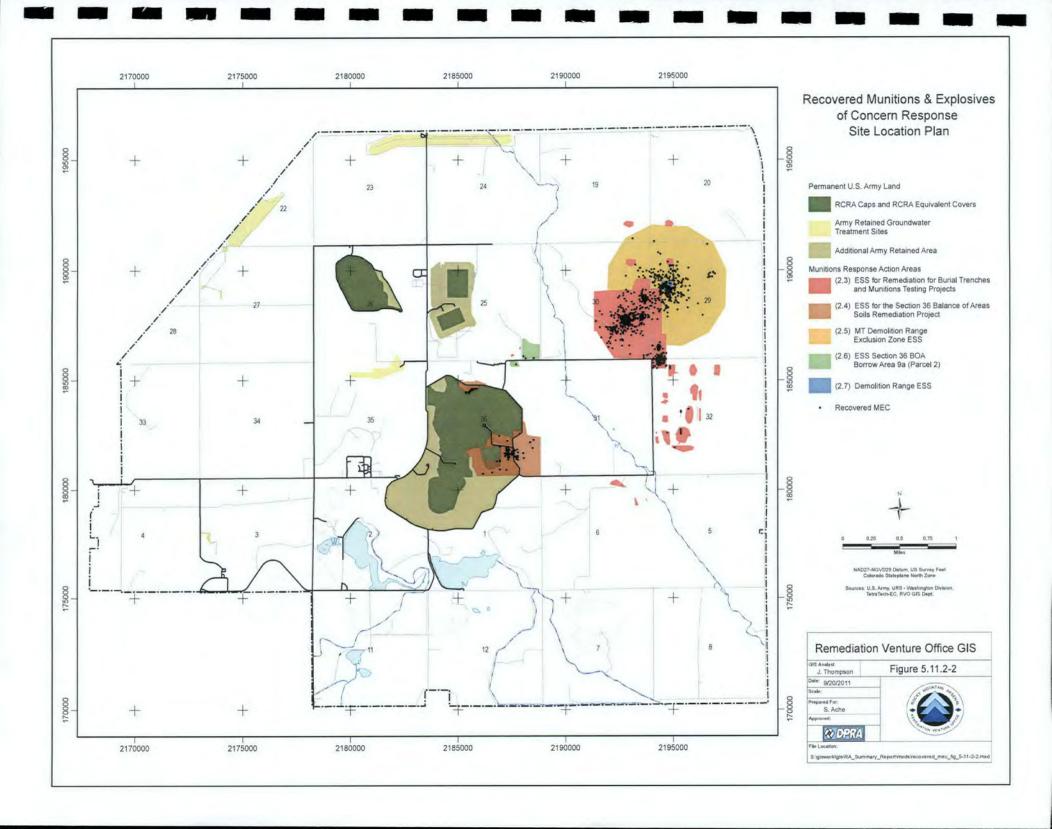


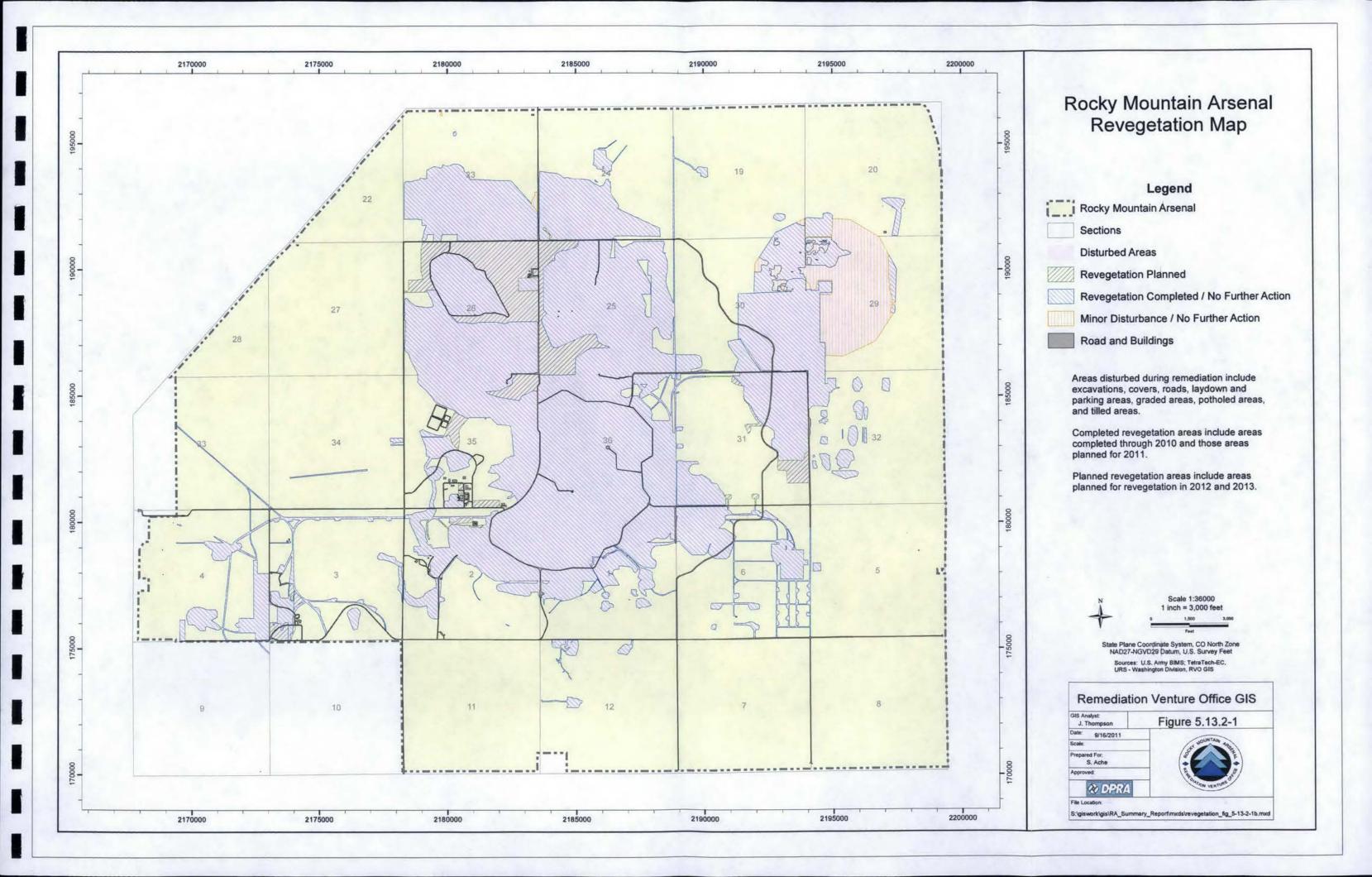


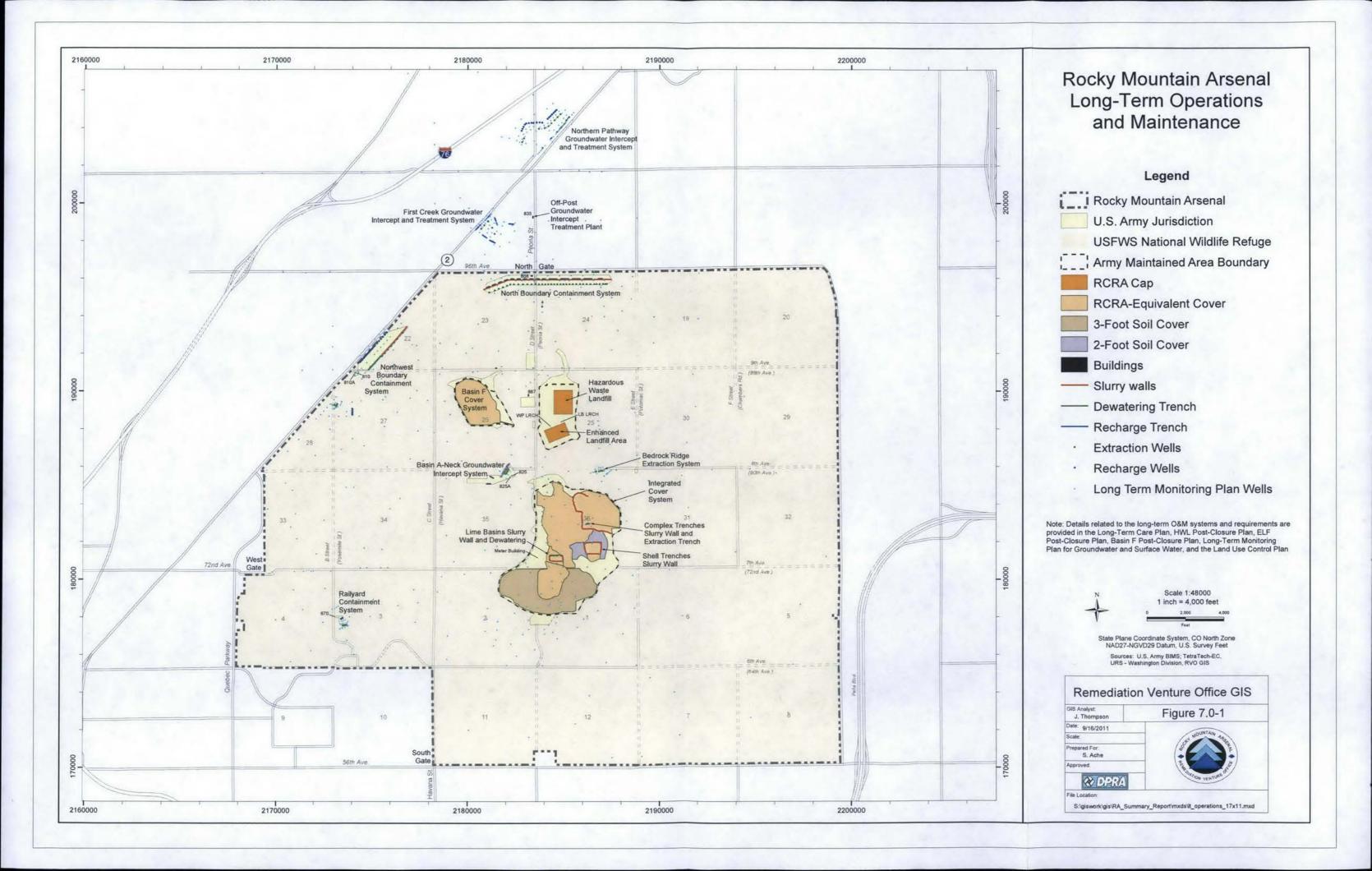












Appendix A

Final Remedy Schedule

| | s - Basin A / Landfil | lls | | | | | |
|-------------------------------------|-----------------------|----------|---------|--|-------------------|----------------------|--|
| onstruct Hazarde Remedial Design | ous Waste Landfill | | | | | | AZCHRANICZBERTUNICZI PREBINININE NICZENICZBERTUN |
| LF2-120000 | 0 11MAR96A | 21JUL96A | 100 Pre | pare / Revise 10% Design Scope of Wo | rk - LF | | |
| LF2-130000 | 0 22JUL96A | 31MAR97A | 100 F | repare 30% Design - LF | | | |
| LF2-150000 | 0 03MAR97A | 09JUN97A | 100 | Prepare 60% Design - LF | | | |
| LF2-140000 | 0 01APR97A | 01MAY97A | 100 | Regulator / Committee Review - LF | | | |
| LF2-135000 | 0 | 03APR97A | 100 | # <<< <rcra date<="" deadline="" design="" td=""><td>9>>>></td><td></td><td></td></rcra> | 9>>>> | | |
| LF2-170000 | 0 09JUN97A | 10SEP97A | 100 | Prepare 90% Design - LF | | | |
| LF2-160000 | 0 09JUL97A | 14AUG97A | 100 | Regulator / Committee Rev. & P | ublic Input - LF | | and the second s |
| LF2-180000 | 0 11SEP97A | 27OCT97A | 100 | Regulator / Committee Review | r-LF | | |
| LF2-190000 | 0 28OCT97A | 13FEB98A | 100 | Prepare 100% Design - LF | | | ALLE IN THE PROPERTY OF THE PR |
| LF2-100900 | 0* 23MAR98A | 30APR99A | 100 | HWLF Operational Plans | 1. | | |
| LF2-DES002 | 0* 08JUL02A | 24JAN06A | 100 | | Redesign of the I | HWL Final Cap | |
| LF2-100000 | 0* 18MAR05A | 01DEC05A | 100 | | | HWL Ramp Closure DCN | |
| LF2-900000 | 0* 20JUN05A | 25JUL06A | 100 | | | HWL Closure Plan | |
| LF2-900200 | 0* 300CT06A | 02JUL09A | 100 | | | PLAN-Hazardo | ous Waste Landfill-Post Clo |
| | | | | | · | | |

| Activity ID | Rem Start F | inish % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
|-------------------|-------------------|-----------------|--|
| Remedial Design | | South | |
| LF2-860000 | 0* 250CT10A 24JU | N11A 100 | PLAN - HWL Post-Closure Plan |
| F2-INF | 0* 11MAR96A 24JU | N11A 100 | Hazardous Waste Landfill Design |
| Remediation Activ | ⁄ities | | |
| LF4-630000 | 0* 14NOV97A 16JA | N98A 100 | Mobilization - LF |
| F4-640000 | 0* 06FEB98A 09AP | R98A 100 | Excavate Biota Soil - LF |
| Construction/Ope | rations/Closure | | |
| F5-665000 | 0* 26FEB98A 14JA | N99A 100 | Phase I Cell Construction - LF |
| F5-179000 | 0 26FEB98A 14JA | N99A 100 | BOR12 Support to Hazardous Waste Landfill |
| F5-666000 | 0* 15JUN98A 01MA | R99A 100 | Landfill Water Treat System - Construction |
| F5-130000 | 0* 17AUG98A 14DE | C98A 100 | BOR5 Support to Haz Waste Landfill -Cell I Liner |
| F5-680000; | 0 30APR99A | 100 | *** RCRA LANDFILL AVAILABLE *** - LF |
| =5-670000 | 0* 01JUL99A 04JAN | N01A 100 | Phase II Cell Construction - LF |
| F5-INF1 | 0* 26FEB98A 04JAN | NO1A 100 | Haz Waste Landfill Cell II Liner Construction |
| F5-140000 | 0* 07MAR00A 14SE | P00A 100 | BOR5 Support to Haz Waste Landfill Cell II Liner |
| 5-690000 | 0* 30APR99A 30APR | R04A 100 | Operation LF |
| F5-155010 | 0* 21MAY01A 31DE | C01A 100 | BOR10 Support to HWL Ops Odor Control/GF |
| F5-155000 | 0* 02JAN02A 30API | ₹04A: 100 | BOR7A Support to HWL Ops Odor Control/GF |
| F5-155020 | 0* 29MAY02A 30APF | R04A 100 | BOR3 Support to HWL Ops Odor Control/GF |
| F5-700000 | 0 30APF | R04A 100 | *** RCRA LANDFILL CLOSED *** - HWL |
| -5-690010 | 0* 03MAY04A 13OC | T06A 100 | HWL Interim Operations |

| Construction/Ope | rations/Closure | | | | |
|------------------|-----------------|----------|------|--|---|
| LF5-711000 | 0* 07JUL03A | 13OCT06A | 100 | to again an again an again an again ag | te Cover - HWL |
| LF5-140010 | 0* 07JUL03A | 13OCT06A | 100 | BOR3 Sup | port to HWL Intermediate Cover - LFLF |
| LF5-715013 | 0* 30APR99A | 28AUG06A | 100 | Settlement Monitoring - LFLF | |
| LF5-INF2 | 0* 30APR99A | 130CT06A | 100 | HWL Operations/Interim Ops/Int Cover/Closure | |
| LF5-725000 | 0* 10AUG00A | 31MAR09A | 100 | HWL Operational Groundwater Moni | toring |
| LF5-002007 | 0* 01JUL08A | 15DEC08A | 100 | | REPORT-Annual 2007 HWL/LWTS/ELF-Operational |
| LF5-600001 | 0* 27JUN06A | 11JAN07A | 100 | | HWL Ramp Removal |
| LF5-715015 | 0* 02OCT06A | 05JAN07A | 100 | | Mobilization Cap Construction - HWL |
| LF5-716000 | 0* 20NOV06A | 15AUG08A | 100 | | Construct Geotextiles/Geosynthetics - HW |
| LF5-715011 | 0* 09APR07A | 12MAY09A | 100 | | Construct Clean Soils and Biota Barrier |
| LF5-150000 | 0* 09APR07A | 12MAY09A | :100 | | BOR5 Support to HWL Cap/Cover - LFLF |
| LF5-715090 | 0* 16APR08A | 14JAN10A | 100 | | Final Drainage & Surface Water Controls |
| LF5-660000 | 0* 20NOV08A | 20MAY09A | 100 | | Permanent Revegetation - HWL |
| LF5-720000 | 0* 02MAR09A | 11JUN09A | 100 | | Demobilization Cap Construction |
| LF5-INF3 | 0* 02OCT06A | 11JUN09A | 100 | | HWL Final Cap Construction |
| LE5-400130 | 0* 25AUG08A | 23MAR10A | 100 | | CQA Certification Report - HWL |
| LF5-186020 | 0* 27JUL09A | 23MAR10A | 100 | | Closure Certification Report - HWL |
| LF5-186010 | 0* 25AUG08A | 23MAR10A | 100 | | CERT REPORT - HWL - Cap Clo |

| Activity ID Construction/Oper | Rem Start Finish Dur Fations/Closure | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|--------------------------------|--------------------------------------|--------|--|
| LF5-740000 | 0* 26FEB98A 23MAR10A | 100 | Project Support - HWL |
| LF5-002008 | 0 01MAY09A 24SEP09A | 100 | REPORT JUL2007-APR2009 HWL Ops Annua |
| LF5-INF | 26* 26FEB98A 22SEP11 | 100 | FIELD-HWL - Construction/Ops/Cover/LWTS Closure |
| LF5-900000 | 0* 14APR10A 21JAN11A | 100 | HWL - LWTS Closure and Den |
| LF5-191005 | 26* 16DEC10A 22SEP11 | 91 | REPORT - CQA Certification Report - LWTS C |
| Construction Com | pletion Report | | |
| LF6-730100 | 0 28NOV00A 29JAN01A | 100 | Prep Constr. Cmplt Report (CCR) - Cell II Constr |
| LF6-730102 | 0 29JAN01A 27FEB01A | 100 | Regulator/Committee Review CCR - Cell II Constr |
| LF6-730104 | 0 24FEB01A 22MAR01A | 100 | Incorp/Resp. to Comments/Issue Draft CCR - C II |
| LF6-730106 | 0 26MAR01A 01MAY01A | 100 | □ EPA-State Prepare & Issue Accept Ltr CCR - C II |
| LF6-730108 | 0 24APR01A | 100 | Project Complete - Cell II Construction |
| LF6-INF1 | 0* 28NOV00A 24APR01A | 100 | Constr Cmplt Rprt (CCR) Process-HWL Cell II |
| LF6-730200 | 0* 07JUN04A 06AUG04A | 100 | Prep Construction Cmplt Report (CCR) - HWL Ops |
| LF6-730201 | 0* 07AUG04A 10NOV04A | 100 | Regulator/Committee Review CCR - HWL Ops |
| LF6-730204 | 0 300CT06A 04JAN07A | 100 | Update HWL Ops CCR - including Interim. 0 |
| LF6-730205 | 0 05JAN07A 30JAN07A | 100 | © RVO/PMC Review Draft CCR - HWL Ops |
| LF6-INF2 | 0* 07JUN04A 08APR08A | 100 | Constr Cmplt Rprt (CCR) Process - HWL Ops |
| LF6-730206 | 0 31JAN07A 04JUN07A | 100 | Regulator/Committee Review CCR - HWL |
| LF6-730210 | 0 05JUN07A 13NOV07A | 100 | Incorp/Resp to Comments/Issue Draft CCR -HW |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 | FY01 FY02 FY03 FY04 | FY97 FY98 FY | % Comp | Finish | Rem Start Dur | Activity ID |
|--|-----------------------------------|--------------|---|----------|-----------------------|-------------------|
| | | | | | mpletion Report | Construction Con |
| EPA - State Prep & Iss Accept Ltr CCR - HV | | | 100 | 08APR08A | 0 14NOV07A | LF6-730220 |
| Project Complete - Hazardous Waste Land | : | | 100 | 08APR08A | 0 | LF6-730230 |
| PMC-Prep Draft/RVO Iss CCR to Agencies-H\ | | | 100 | 27AUG09A | 0* 01JUL09A | LF6-300030 |
| CCR - Hazardous Waste LF - Cap Cons | | | 100 | 21JUL10A | 0* 01JUL09A | LF6-INF3 |
| ☐ Regulator/Committee Review Draft CCR - H\ | | | 100 | 30SEP09A | 0* 28AUG09A | LF6-300040 |
| Incorp. Comments & Resubmit CCR - CAF | | | 100 | 01JUN10A | 0* 01OCT09A | _F6-300050 |
| EPA/State-Prepare/Issue Accept Ltr CCR- H\ | | | 100 | 21JUL10A | 0 04JUN10A | LF6-300060 |
| Project Complete (EPA Accept. of CCR - HV | | | 100 | 21JUL10A | 0 | LF6-300070 |
| -HWL Cell II | Constr Cmplt Rprt (CCR) Process-H | | 100 | 21JUL10A | 0* 28NOV00A | _F6-INF |
| PMC-Prep Draft/RVO Iss CCR to Agencies | | <u> </u> | 100 | 18FEB11A | 0* 02NOV10A | LF6-400030 |
| Regulator/Committee Review Draft CCR | | | 100 | 22MAR11A | 0* 21FEB11A | -F6-400040 |
| Incorp. Comments & Resubmit CCR - LWTS | | | 76 | 140CT11 | 48* 23MAR11A | F6-400050 |
| EPA/State-Prepare/Issue Accept Ltr CCR | | | 0 | 31OCT11 | 13 190CT11 | _F6-400060 |
| Project Complete (EPA Accept. of CCR - | | | 0 | 310CT11 | 0 | _F6-300075 |
| CCR - Hazardous Waste LF - LWTS | | | 82 | 310CT11 | 65* 02NOV10A | _F6-INF4 |
| | | 1 | NO. 1124 289 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | rations | oring/Maintenance/Ope | Short-Term Monito |
| Short-Term HWL Postclosure Grndwater Mo | | | 100 | 30NOV10A | 0* 01APR09A | _F7-726000 |
| <<< Short-Term M&M >>>> - H\ | | 100 mm | 100 | 30NOV10A | 0* 01APR09A | _F7-980000° |
| REPORT - 2009 HWL Annual Cover | | | 100 | 12MAY10A | 0* 010CT09A | F7-740000 |

| ID | Dur | Finish % — Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY |
|---|--|--|---|
| LF7-840000 | ring/Maintenance/Operations 0* 01SEP10A 2000 | S CT10A 100 | |
| E1 7-040000 | 0 0 (SE) 10A 2000 | 01.100 | REPORT - 2010 Annual Covers Report for RCRA Ca |
| Plan Development | or Revision | | |
| LFR#200220 | 0* 02FEB09A 23AF | PR10A 100 | PLAN-LWTS Closure Plan Developm |
| 0 | ruction of Enhanced Haz V | Vatue | |
| perauonal Constr Predesign Activitie | | VSCEP | |
| LE1-DES030 | COMMENS OF CONTRACTOR OF STREET, STREE | JL00A 100 | ELE Contabilitation |
| | | | ELF Geotechnical Investigation |
| LE1-DES040 | 0* 02FEB00A 12Al | JG03A 100 | ELF Liner Compatibility Study |
| | | | |
| LE1-030940 | 0* 23MAY00A 06Al | JG02A 100 | ELF Pre-Operational Groundwater MonWell Instal |
| LE1-040960 | 0* 01AUG00A 02DB | EC02A 1 100 | |
| LE I-040960 | 0 OTAUGUUA 02DI | ⊒C02A 100 | ELF Operations Manual |
| LE1-INF | 0* 13APR99A 12AU | JG03A 100 | Enhanced Landfill Pre-Design |
| | | | Emanced Landini Fre-Design |
| Remedial Design | | | |
| LE2-100000 | 0* 17NOV00A 04AI | PR01A 100 | Prepare\Revise Design SOW- ELF |
| LE2-101500 | 0 30JA | AN01A 100 | |
| LE2-101300 | O | ANOTA TOO | Submit Draft Design Scope of Work -ELF |
| LE2-130000 | 0* 10JAN01A 15M | AY01A 100 | Prepare 30% Design - ELF |
| | | | Prepare 30% Design - ELF |
| LE2-101600 | 0* 31JAN01A 02M | AR01A 100 | Reg./RMA Committee Review (Design SOW) |
| | 229 | | |
| LE2-195000 | 0* 26FEB01A 29AI | PR02A 100 | ELF Test Pad Program |
| LE2-132500 | 15M | AY01A 100 | |
| LEZ-132500 | 0 15M | AYUIA | <>< <submit -="" 30%="" deadline="" design="">>>>>></submit> |
| LE2-140000 | 0* 16MAY01A 15JU | JN01A 100 | |
| | | CONTROL CONTRO | Regulator/CommitteeReview/Pub. Input-LE30%Design |
| LE2-150000 | and the second s | CT01A 100 | Prepare 60% Design - ELF |
| | | | |
| LE2-160000 | 0* 26OCT01A 28D | EC01A 100 | Regulator / Committee Review - 60% Design (ELF) |
| | | | |
| LE2-170000 | 0* 260CT01A 28M | AR02A 100 | Prepare 95% (Draft Final) Design - ELF |

| | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY(| 00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
|--------------------|------------------|----------|--------|--------------------|---|
| Remedial Design | | - | | | |
| LE2-175000 | 0 | 28MAR02A | 100 | | < |
| LE2-180000 | 0* 29MAR02A | 13MAY02A | 100 | | Reg/Committee Rev & Public Input 95% ELF Design |
| LE2-190000 | 0* 29MAR02A | 25JUL02A | 100 | | Prepare 100% ELF Design |
| LE2-DES030 | 0* 06AUG01A | 25JUL02A | 100 | | LWTS Upgrade Design |
| LE2-DES031 | 0* 05DEC02A | 07AUG03A | 100 | | Design of CCSCS |
| LE2-DES032 | 0* 12AUG03A | 24JUN04A | 100 | | ELF Ion Exchange LWTS Addition Design |
| LE2-DES033 | 0* 18SEP03A | 06APR04A | 100 | | Borrow Area 5 - DIMP Chacterization for ELF |
| LE2-725000 | 0* 130CT03A | 10FEB06A | 100 | | ELF Pre-operational Groundwater Sampling |
| LE2-DES002 | 0* 30NOV05A | 26OCT07A | 100 | | Redesign of the ELF Final Cap |
| LE2-200000 | 0* 29JAN07A | 07DEC07A | 100 | | ELF Support Facilities Closure DCN |
| LE2-INF | 0* 17NOV00A | 25AUG10A | 100 | | Enhanced Landfill Design |
| LE2-210000 | 0* 04FEB08A | 18AUG08A | 100 | | ELF Closure Plan |
| _E2-210010 | 0* 18FEB09A | 25AUG10A | 100 | | PLAN-Enhanced Hazardous Waste LF-Po |
| Construction/Opera | ations/Closure | | | | |
| LE5-620000 | 0* 22AUG03A | 05NOV03A | 100 | | ELF Initial Sitework FY03 |
| _E5-630000 | 0* 170CT03A | 26NOV03A | 100 | | Mobilization - ELF Berms & Liner |
| _E5-650000 | 0* 04DEC03A | 06MAY04A | 100 | | ELF Excavation & Berm Construction Part I |
| _E5-176000 | 0* 18MAR04A | 27MAY05A | 100 | | BOR5 Support - ELF Berms & Liners |
| -E5-650001 | 0* 25MAY04A | 30NOV04A | 100 | | ELF Cell Liner Construction (Part 1) |

| Activity ID | Rem Start Dur | | % FY97 FY | 98 FY99 FY0 | 0 FY01 FY | 02 FY03 | FY04 FY | 05 FY06 FY07 FY08 FY09 FY10 FY | 11 F |
|--------------------|------------------|----------|-----------|--|--|---|------------|--|-------|
| Construction/Opera | ations/Closure | | | 38433334343434343434 | | 100000000000000000000000000000000000000 | 1 | | |
| LE5-002008 | 0 01MAR10A | 140CT10A | 100 | | | | | REPORT-2008 ELF A | เททนล |
| LE5-002009 | 0 01JUL10A | 06JÄN11A | 100 | | | | | REPORT-2009 ELF A | nnua |
| LE5-656000 | 0* 07OCT04A | 12NOV04A | 100 | | | | © ELF | Intracell Berm Construction Part ! | |
| LE5-900010 | 0* 24JAN05A | 26AUG05A | 100 | | | | | Construct LWTS Addition - Ion Exchange | |
| LE5-660010 | 0* 01DEC04A | 11AUG05A | 100 | | | - | | F CCSCS Construction | |
| LE5-656010 | 0* 25OCT04A | 26SEP05A | 100 | | | - : : : : : : : : : : : : : : : : : : : | ELI | Infrastructure/Misc Facilities Construction | |
| LE5-650002 | 0* 03FEB05A | 29SEP05A | 100 | | | | | ELF Excavation & Berm Construction Part II | |
| LE5-656001 | 0* 16MAR05A | 310CT05A | 100 | | ; ; | | | ELF Cell Liner Construction (Part 2) | |
| LE5-186010 | 0* 01DEC04A | 19OCT05A | 100 | | : | | | evelop/Submit CR-ELF/CCSCS | |
| LE5-656002 | 0* 05JUL05A | 28JUL05A | 100 | | * · · · · · · · · · · · · · · · · · · · | | | I ELF Intracell Berm Construction Part 2 | |
| LE5-660020 | 0* 14NOV05A | 01FEB06A | 100 | | | | | ELF Construction Interim Revegetation | |
| LE5-710000 | 0* 24OCT05A | 06DEC05A | 100 | | | | | Demobilization - ELF Berms & Liner | |
| LE5-186020 | 0* 200CT05A | 07MAR06A | 100 | | and the state of t | | | Regulatory Agencies Approval to Place Waste | |
| LE5-670000 | 0 07MAR06A | | 100 | | | | | ***RCRA ENHANCED LF AVAILABLE*** | |
| LE5-INF2 | 0* 22AUG03A | 07MAR06A | 100 | Account to the second s | | EL | LF Berms & | Liner Construction | |
| LE5-707010 | 0* 01NOV05A | 29JUN07A | 100 | | | <u></u> | | BOR5 Support to ELF Ops Vapor Controls - EHV | ΝL |
| LE5-680000 | 0* 01NOV05A | 05MAY08A | 100 | | | | | ELF Operations | |
| LE5-690000 | Ó | 05MAY08A | 100 | | | · . | | ***RCRA ENHANCED LF CLOSED* | *** - |

| Activity ID | Rem Start Dur | Finish | % FY97 FY98 FY99 FY0 | 0 FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY1 |
|------------------|------------------|----------|--|-----------------------|--|
| Construction/Ope | erations/Closure | | | | |
| LE5-707020 | 0* 16JUL07A | 20FEB08A | 100 | | BOR4 Support to ELF Ops Vapor Controls - EHW |
| LE5-705000 | 0* 16JUL07A | 05MAY08A | 100 | | Const Intermed Cover - ELF Ops |
| LE5-176010 | 0* 16JUL07A | 05MAY08A | 100 | | BOR5 Support to ELF Intermediate Cover - EH\ |
| LE5-705010 | 0* 20DEC07A | 20MAR08A | 100 | | ELF Support Facilities Closure |
| LE5-600300 | 0* 13MAR08A | 10JUL08A | | 1 | ELF Support Facilities Closure DSR - EH\ |
| LE5-708000 | 0* 13MAR08A | 19MAR09A | 2-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | CERT REPORT - ELF - Support Facilities Clos |
| LE5-711000 | 0* 21MAR08A | 06AUG08A | 100 | | ELF Settlement Monitoring |
| LE5-500000 | 0 14APR08A | 18JUN08A | 100 | | Stockpile BBM - ELF Cap |
| LE5-INF3 | 0* 01NOV05A | 19MAR09A | 100 | | ELF Operations/Intermediate Cover/Closure |
| LE5-O&M1 | 0* 07MAR06A | 30NOV10A | 100 | | ELF Operational Groundwater Monitoring |
| LE5-002007 | 0 01MAY09A | 06OCT09A | 100 | | REPORT-JUL2007-APR2008 ELF Annual C |
| LE5-350090 | 0* 23MAY08A | 19JAN09A | 100 | | DSR for the HWL and ELF Entrance Haul Rd C |
| LE5-632000 | 0 12SEP08A | 22SEP08A | 100 | | l Mobilization ELF Cap Construct |
| LE5-719000 | 0* 29SEP08A | 16MAR10A | 100 100 100 100 100 100 100 100 100 100 | | Construct Clean Soils and Biota Barrier - E |
| LE5-718000 | 0 21NOV08A | 09APR09A | 100 | | Construct Geotextiles/Geosynthetics - E |
| LE5-206010 | 0* 29SEP08A | 16MAR10A | 100 | | BOR4 Support to ELF Cap/Cover - EH\ |
| LE5-710110 | 0 01APR09A | 07APR09A | 100 | | Remove/Reduce 9th Ave Haul Road (East of D S |
| LE5-710120 | 0 08APR09A | 30NOV09A | 100 | | Remove/Reduce F Street Haul Rd (7th to 8th)-EHV |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 I | FY01 FY02 FY03 FY04 F | FY99 FY00 | FY97 FY98 | % — Comp | Finish | Rem Start Dur | Activity ID |
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| | | | | | | tions/Closure | Construction/Oper |
| Remove RMA Primary Haul Roads | | | | 100 | 15MAR10A | 0* 08APR09A | LE5-726110 |
| Remove 7th Ave Haul Road - E | | | | 100 | 30NOV09A | 0 04MAY09A | LE5-710100 |
| Remove D Street Haul Road - E | | | | 100 | 15MAR10A | 0 03FEB10A | LE5-710130 |
| Final Drainage and Surface Water Controls | | | | 100 | 16MAR10A | 0* 08SEP09A | LE5-720000 |
| Demobilization ELF Cap Constru | | | | 100 | 30MAR10A | 0 03MAR10A | LE5-710020 |
| Final Inspection Process - EL | | | | 100 | 26MAY10A | 0 11MAR10A | LE5-720010 |
| Permanent Revegetation - EL | | | · · | 100 | 25MAY10A | 0 06APR10A | LE5-709000 |
| CQA Certification Report - EL | | | | 100 | 11NOV10A | 0* 01FEB10A | LE5-186040 |
| Closure Certification Report - EL | | | AND THE PARTY OF T | 100 | 11NOV10A | 0* 01FEB10A | LE5-186050 |
| CERT REPORT - ELF - Cap G | | | | 100 | 11NOV10A | 0* 01FEB10A | LE5-186030 |
| ELF Final Cap Construction-Thru CR App | | | | 100 | 11NOV10A | 0* 12SEP08A | LE5-INF4 |
| rt-ELF Construction/Operations/Cover | Proj Support | | | 100 | 11NOV10A | 0* 22AUG03A | LE5-730000 |
| - Construction/Operations/Cover | FIELD- ELF | | | 100 | 11NOV10A | 0* 22AUG03A | LE5-INF |
| | | | . ! | 282982222222 | 33 (23 - 24 - 24 - 24 - 24 - 24 - 24 - 24 - | letion Report | Construction Com |
| Prep Const Cmplt Rprt (CCR)-Ion Ex-LWTS | | | | 100 | 06NOV07A | 0 06AUG07A | LE6-730400 |
| Constr Cmplt Rprt (CCR) Proc-lon Exch-LWTS | | | | 100 | 17JUL08A | 0* 06AUG07A | LE6-INF1 |
| Regitry/Commtt Rev CCR - Ion Ex-LWTS | | | - | 100 | 29JAN08A | 0 07NOV07A | LE6-730410 |
| inc/Resp to Comnts/Iss Draft CCR-Ion Ex-LWT | | | | 100 | 22MAY08A | 0 29JAN08A | LE6-730420 |
| EPA/State Prep/Acpt Ltr CCR-ion Ex-LWT | | ; | | 100 | 17JUL08A | 0 23MAY08A | LE6-730430 |

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| | | | n Report | Construction Com |
| Proj Cmplt-Ion Exch Addtn to LWTS-LWTS Mo | 100 | 17JUL08A | 0 | LE6-730440 |
| Prep Constr Complt Rpt (CCR) - ELF/CCSCS | 100 | 03FEB06A | 0 28NOV05A | LE6-663002 |
| Constr Cmplt Rpt (CCR) Process- ELF Constr/CCSCS | 100 | 01FEB07A | 0* 28NOV05A | LE6-INF2 |
| Regulator/Committee Review CCR- ELF Constr/GCSC | 100 | 28APR06A | 0 21FEB06A | LE6-663003 |
| Incor/Rsp to Cmnts/lss Draft CCR-ELF/CCSCS | 100 | 01NOV06A | 0 01MAY06A | LE6-663004 |
| EPA-State Prep& Iss Acpt Ltr CCR-ELF Const/GCSC | 100 | 01FEB07A | 0 06NOV06A | LE6-663006 |
| Project Complete- Enhanced Hazardous Waste L | 100 | 01FEB07A | 0 | LE6-663016 |
| CCR - ELF - Operations | 100 | 05MAY09A | 0* 22MAY08A | LE6-INF3 |
| Prep Constr Complt Rpt (CCR) - ELF Or | 100 | 28AUG08A | 0 22MAY08A | LE6-663020 |
| Regulator/Committee Review CCR - ELF Op | 100 | 31OCT08A | 0 29AUG08A | LE6-663030 |
| Incorp Comments & Resubmit CC | 100 | 02APR09A | 0* 03NOV08A | LE6-663040 |
| EPA/State-Prep & Iss Acpt Ltr CCR-ELF Op | 100 | 05MAY09A | 0 03APR09A | LE6-663050 |
| Project Complete- EHWL Op | 100 | 05MAY09A | 0 | LE6-663060 |
| PMC-Prep Draft/RVO Iss CCR to Agencies-ELF Ca | 100 | 22JUL10A | 0 01APR10A | LE6-300030 |
| CCR - ELF - Cap Construction | 100 | 24MAR11A | 0* 01APR10A | LE6-INF4 |
| Regulator/Committee - Review Draft CCR - EUF Ca | 100 | 30AUG10A | 0 23JUL10A | LE6-300040 |
| Incorp. Comments & Resubmit CCR - CAP Cons | 100 | 18MAR11A | 0* 31AUG10A | LE6-300050 |
| EPA/State-Prepare/Issue Accept Ltr CCR- ELF Ca | 100 | 24MAR11A | 0 19MAR11A | LE6-300060 |

| Activity ID | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 | FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
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| Construction Comp | oletion Report | | | 6 | |
| LE6-300070 | o | 24MAR11A | 100 | | Project Complete (EPA Accept. of CCR - ELF |
| LE6-INF | 0* 22MAY08A | 24MAR11A | 100 | | Constr Cmplt Rpt (CCR) Process- ELF Constr |
| Short-Term Monito | ring/Maintenance/Ope | rations | | | |
| LE7-O&M2 | 0* 27MAY10A | 30NOV10A | 100 | | Short-Term-ELF Postclosure Grndwater Mon |
| LE7-980000 | 0* 27MAY10A | 30NOV10A | 100 | | <<< Short-Term M&M >>>> - El |
| LE7-002010 | 0 04JAN11A | 30JUN11A | 100 | | REPORT-2010 ELF Postclosure Annu |
| Basin A Consolida | tion and Remediatio | n | | | |
| Remedial Design | non and ixemediatio | | 28883332933333334 | a vannasio opa visua na vasta provincia (provincia) provincia provincia provincia su Populari i Recolori de se Provincia | ang ang pang dang kang dang dang dang dang dang dang pang dang dang dang dang dang dang dang d |
| BA2-120000 | 0 03JUN96A | 19JAN97A | 100 | Prepare / Revise Design Scope of Work - BASA | |
| BA2-125000 | 0 18NOV96A | 22DEC96A | 100 | Regulator / RMA Committee Review | |
| BA2-130000 | 0 19AUG96A | 17NOV96A | 100 | Prepare 30% (Conceptual) Design - BASA | |
| BA2-140000 | 0 18NOV96A | 22DEC96A | 100 | Regulator / Committee Rev. & Public Input- BASA | |
| BA2-150000 | 0 18NOV96A | 02MAY97A | 100 | Prepare 60% Design - BASA | |
| BA2-160000 | 0 05MAY97A | 30MAY97A | 100 | Regulator / Committee Review - BASA | |
| BA2-170000 | 0 05MAY97A | 21JUL97A | 100 | Prepare 95% (Draft Final) Design - BASA | |
| BA2-175000 | 0 | 21JUL97A | 100 | [™] <<<< <design deadline="">>>>></design> | |
| BA2-180000 | 0 22JUL97A | 08SEP97A | 100 | Regulator/Committee Rev. & Public Comment- BASA | |
| BA2-190000 | 0 09SEP97A | 29SEP97A | 100 | Prepare 100% Design | |
| BA2-INF1 | 0* 03JUN96A | 29SEP97A | 100 | Prepare / Revise Design Scope of Work - BASA | |
| BA2-110095 | 0* 01APR04A | 29APR04A | 100 | | Revise Basin A Subgrade DCN - Rev. 3 |

| Activity ID | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY0 | 04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
|--------------------|-------------|----------|-----------|---|---|
| Remedial Design | | . I | | | |
| BA2-122000 | 0* 13JAN05A | 08JUN06A | 100 | | Prepare 95% ICSD Design - Basin A DCN |
| BA2-123000 | 0* 09JUN06A | 29SEP06A | 100 | | Prepare 100% ICSD Design - Basin A DCN |
| BA2-120100 | 0 02JAN07A | 03APR07A | 100 | | Prepare/Revise 95% ICS Design - Basin A |
| BA2-120101 | 0 04APR07A | 03MAY07A | 100 | | g Reg. Review Revised 95% ICS Design - Bar |
| BA2-120102 | 0 30APR07A | 23JUL07A | 100 | | Prepare/Revise 100% ICS Design - Basi |
| BA2-120112 | 0 25JUL07A | 23AUG07A | 100 | | Reg Review Revised 100% ICS Design - Ba |
| BA2-110000 | 0* 21JUL03A | 23AUG07A | 100 | Basin <i>I</i> | A RCRA-Equivalent Cover Redesign |
| BA2-120113 | 0 24ÅUG07A | 23OCT07A | 100 | | Revise & Submit Final 100% ICS Design - Ba |
| BA2-120114 | 0 240CT07A | 20NOV07A | 100 | | Reg. Agencies Review R2 100% ICS Design- Ba |
| BA2-120120 | 0 21NOV07A | 22APR08A | 100 | | Prepare DCN & Obtain Agency Approval - Ba |
| BA2-INF | 0* 03JUN96A | 22APR08A | 100 Basir | n A Design [ICSD] | |
| Remediation Activi | ities | | | | |
| BA4-120000 | 0* 14NOV97A | 14OCT98A | 100 | Mobilization - Basin A Operations | |
| BA4-125000 | 0 14NOV97A | 77.77 | 100 | ≪<<< <imp. deadline="" start="">>>>></imp.> | |
| BA4-131000 | 0* 09JAN98A | 16APR98A | 100 | Visual Surface UXO Survey | |
| BA4-190000 | 0 19JAN98A | | 100 | *** BASIN A CONSOLIDATION AREA OPEN *** | |
| BA4-291000 | 0* 19JAN98A | 16APR98A | 100 | Consolidate Biota to Basin A From CAMU Area | |
| BA4-200000 | 0* 19JAN98A | 30JUN04A | 100 | BASIN A CONSOLIDATION OPS DURATION | |
| BA4-175000 | 0* 11MAY99A | 31DEC99A | 100 | BOR10 Support to Basin A Ops Gradefill | |

| Activity ID | Rem Start | Finish | % F | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
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| Remediation Activ | | | . 11111111 | |
| 3A4-292000 | 0* 04MAY99A | 30JUN04A | 100 | Basin A Operations |
| 3A4-140000 | 0* 13JAN99A | 30JUN04A | 100 | BOR7A Support to Basin A Ops Gradefill |
| 3A4-178000 | 0 07MAY03A | 30SEP03A | 100 | BOR9A Support to Basin A Ops Gradefill |
| 3A4-176000 | 0 29MAY02A | 31DEC03A | 100 | BOR3 Support to Basin A Ops G/F - BACR |
| BA4-177000 | 0* 02FEB04A | 30JUN04A | 100 | BOR8 Support to Basin A Ops G/F - BACR |
| BA4-210000 | 0 | 30JUN04A | 100 | *** BASIN A CONSOLIDATION AREA CLOSED *** |
| 3A4-210010 | 0 28OCT04A | 29OCT04A | 100 | Interim Revegetation Borrow Area 3 (BA Support) |
| 3A4-292030 | 0* 01JUL04A | 13MAY05A | 100 | Basin A Interim Operations - Non-Notch |
| 3A4-032002 | 0* 29NOV04A | 04JAN05A | 100 | Place Biota from Section 36 BOA (Phase I) |
| BA4-INF1 | 0* 14NOV97A | 13MAY05A | 100 | Basin A Operations / Interim Revegetation |
| BA4-292020 | 0* 01JUL04A | 13MAY05A | 100 | BOR 7B support for Basin A Interim Operations |
| BA4-250000 | 0* 12APR05A | 13MAY05A | 100 | Mobilization - Basin A South G/F (See S 36 BOA) |
| 3A4-032001 | 0* 17MAY05A | 09NOV05A | 100 | Subgrade South & North 1 ft BA (Phase I) {S2} |
| 3A4-032003 | 0* 08JUN05A | 09NOV05A | 100 | BA9A & 9C (Excv) Suppt to Basin A Subgrd Con PhI |
| BA4-220500 | 0* 27JUL05A | 29NOV05A | 100 | Demobilization - Basin A Grading Phase I |
| 3A4-032004 | 0* 110CT05A | 08NOV05A | 100 | Demolition of Structure 889 - Basin A Facilities |
| 3A4-252000 | 0* 03JUL06A | 17JUL06A | 100 | l Mobiliz Basin A North Subgrade Install {S |
| 3A4-300000 | 0* 05JUL06A | 14NOV06A | 100 | Basin A Install North Subgrade (Ph II) |

| Activity ID | Rem Start | Finish | % — | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
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| Remediation Activ | rities | | • 1111 | |
| BA4-INF2 | 0* 12APR05A | 21NOV06A | 100 | Basin A Subgrade Construction |
| BA4-042003 | 0* 05JUL06A | 14NOV06A | 100 | BA9A (Excv) Suppt to Basin A Subgrd |
| BA4-179010 | 0* 05JUL06A | 14NOV06A | 100 | BOR03 Suppt to Basin A Subgrade Constrct |
| BA4-300005 | 0 09NOV06A | 21NOV06A | 100 | l Demobilization North Subgrade S/C - Basin A |
| BA4-360000 | 0* 17MAY05A | 10DEC08A | 100 | Basin A Interim Ops & 1-Ft Clean Cover - Notch |
| BA4-360050 | 0* 17MAY05A | 10DEC08A | 100 | Borrow Area 10 support for Basin A Interim Ops |
| BA4-360010 | 0 | 10DEC08A | 100 | Basin A Closed for Waste Place |
| BA4-300010 | 0 20JUL07A | 10SEP07A | 100 | Subgrade Prep - Basin A South |
| BA4-310000 | 0 13AUG07A | 16NOV07A | 100 | BBM Placement - Basin A South |
| BA4-311000 | 0 24SEP07A | 07DEC07A | 100 | Choke Surface- Basin A South |
| BA4-600030 | 0 110CT07A | 01NOV07A | 100 | □ Excavate Biota Soil - Basin A South |
| BA4-679000 | 0* 24SEP07A | 23MAY09A | 100 | BOR10 Suppt to Basin A RCRA-Equiv Cover C |
| BA4-600020 | 0 31OCT07A | 09NOV07A | 100 | Install New Monitoring Wells - Basin |
| BA4-310010 | 0 15JAN08A | 25APR08A | 100 | CBL/Cover Soil/Perimeter GF-Basin A |
| BA4-325000 | 0 25APR08A | 02JUL08A | 100 | Soil Amendments - Basin A So |
| BA4-320000 | 0 27MAY08A | 03JUL08A | 100 | Perm Reveg & Irrigation Setup - Basin A |
| BA4-325001 | 0 02JUN08A | 25JUN08A | 100 | l Prefinal Inspection - Basin A S |
| BA4-326000 | 0 07JUL08A | 26SEP08A | 100 | Irrigation - Basin A South |

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| | | | | | | Remediation Activit |
| Prefinal Inspection Conference - B | | | 100 | 23JUL09A | 0 23JUL09A | BA4-320002 |
| Subgrade Prep - Basin A North | | | 100 | 12FEB08A | 0 26NOV07A | BA4-600010 |
| BBM Placement - Basin A North | | | 100 | 14MAY09A | 0 13DEC07A | BA4-610000 |
| Choke Surface - Basin A North | | | 100 | 15MAY09A | 0 17DEC07A | BA4-611000 |
| Final Inspection - Basin A | | | 100 | 21APR10A | -0 21APR10A | BA4-320001 |
| CBL/Cover Soil/Perimeter GF- Basin A | | | 100 | 23MAY09A | 0 17JUL08A | BA4-610010 |
| Prefinal Inspection - Basin A | | | 100 | 29MAY09A | 0 23SEP08A | BA4-625001 |
| Soil Amendments - Basin A | | - 1 | 100 | 17JUL09A | 0 23SEP08A | BA4-625000 |
| Perm Reveg - Basin A No | | | 100 | 23JUL09A | 0 10NOV08A | BA4-620000 |
| DSR-Basin A Haul Ro | | | 100 | 30JUN09A | 0* 06MAR09A | BA4-036001 |
| lrrigation - Basin A | | | 100 | 12SEP09A | 0 25JUL09A | BA4-626000 |
| FIELD-Basin A-RCRA-Eq Cover Constr (Excl | | | 100 | 12SEP09A | 0* 20JUL07A | BA4-INF4 |
| Final Inspection - Basin A | | | 100 | 21APR10A | 0 21APR10A | BA4-620001 |
| Subgrade Construction - Basin A Notch | | | 100 | 23FEB09A | 0 23JUN08A | BA4-300110 |
| Final Survey and QA - Basin A Notch Su | | | 100 | 25FEB09A | 0 24FEB09A | BA4-300115 |
| i Final Inspection - Basin A Notch Su | | | 100 | 26FEB09A | 0 26FEB09A | BA4-300116 |
| BBM Placement -Basin A No | | | 100 | 19MAR09A | 0 27JUN08A | BA4-310100 |
| I Choke Surface - Basin A | | | 100 | 27MAR09A | 0 02MAR09A | BA4-310200 |

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| | | | 1 | | Remediation Activiti |
| Irrigation Setup- Basin A North & No | | 100 | 24JUL09A | 0 24FEB09A | BA4-320200 |
| □ CBL/Soil Cover/Perimeter GF - BA No | | 100 | 23MAY09A | 0 06APR09A | BA4-310110 |
| I Prefinal Inspection - Basin A No | | 100 | 21MAY09A | 0 21MAY09A | BA4-310121 |
| Perm Reveg & Irrigation Setup- Basin A No | | 100 | 23JUL09A | 0 23JUN09A | BA4-320100 |
| Soil Amendments - Basin A No | | 100 | 21JUL09A | 0 19MAY09A | BA4-310120 |
| □ Irrigation - Basin A No | | 100 | 12SEP09A | 0 25JUL09A | BA4-326100 |
| CERT REPORT - Basin A - RCRA-Eq Co | | 100 | 16NOV10A | 0* 23JUL09A | BA4-360320 |
| Borrow Area 10 Restora | | 100 | 20NOV09A | 0 03AUG09A | BA4-211115 |
| Construct Engineering Controls - Bas | | 100 | 02MAR10A | 0 14SEP09A | BA4-211100 |
| Remove RMA Primary Haul Roads - Bas | | 100 | 02MAR10A | 0 010CT09A | BA4-326110 |
| FIELD-Basin A - RCRA-Eq Cover Constr (No | | 100 | 16NOV10A | 0* 23JUN08A | BA4-INF5 |
| l Prefinal Inspection (Enginrg Controls) - Bas | | 100 | 04MAR10A | 0 04MAR10A | BA4-211130 |
| Final Inspection - Basin A N | | 100 | 21APR10A | 0 21APR10A | BA4-320101 |
| l Demobilization - Basin A Co | | 100 | 30APR10A | 0 21APR10A | BA4-650000 |
| <<< <lmp. deadline="" finish="">>></lmp.> | | 100 | 16NOV10A | 0 | BA4-355000 |
| Formal Records Rev | | 100 | 01APR11A | 0 28FEB11A | BA4-620010 |
| | Project Support - Basin A Consolidation & Remedi | 100 | 01APR11A | 0* 14NOV97A | BA4-370000 |
| | Basin A Operations/ Interim Ops/ Cover | 100 | 01APR11A | 0* 14NOV97A | BA4-INF |

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| | | 100 (1 0 0 0 10 10 10 10 10 10 10 10 10 10 10 | | | 4.7 | letion Report | Construction Comp |
| Prep Construction Cmplt Rpt - BA Ops & SG | | | | 100 | 03JAN08A | 0* 20NOV06A | BA6-360100 |
| PMC - Prep Draft CCR Part I - ICS Basin A (2 | | | | 100 | 02DEC08A | 0 15SEP08A | BA6-359950 |
| CCR Part I Draft- ICS Basin | | | | 100 | 12FEB09A | 0* 15SEP08A | BA6-INF0 |
| CCR Pt I 2008 Draft-RCRA-Eq ICS-BA,SP,CAT,2F | | | | 100 | 12FEB09A | 0* 15SEP08A | BA60INF0 |
| Agency-Rev'w Draft CCR Part I-ICS (2 | | | | 100 | 12FEB09A | 0 02DEC08A | BA6-359960 |
| Revise CCR to include Notch, 1' Clean Cvr S | | | | 100 | 23APR09A | 0* 27FEB09A | BA6-360200 |
| CCR - Basin A - Operations & Subgrade | | table to the table to the table to the table to the table to table | | 100 | 03SEP09A | 0* 27DEC04A | BA6-INF1 |
| Regulator/Committee Review CCR - BA Op | | | | 100 | 29MAY09A | 0 24APR09A | BA6-360115 |
| Incorporate Comments & Resubmit CCR - BA Op | | | | 100 | 21JUL09A | 0* 01JUN09A | BA6-360120 |
| EPA-State Prep & Iss Accept Ltr CCR -BA Op | | Property of the state of the st | | 100 | 03SEP09A | 0 24JUL09A | BA6-360130 |
| Project Complete - Basin A Ops and Sub | | | | 100 | 03SEP09A | 0 | BA6-360140 |
| Prepare Constr Cmplt Rpt (| | - | | 100 | 01APR10A | 0* 01FEB10A | BA6-360000 |
| CCR Part I - ICS RCRA-Eq Covers-Ba | | | | 100 | 26JAN11A | 0* 01FEB10A | BA6-INF2 |
| Regulator/Committee Review | | | | 100 | 13MAY10A | 0* 02APR10A | BA6-360010 |
| Incorp/Resp to Comments/Iss Draft CCR-ICS C | | | *************************************** | 100 | 09SEP10A | 0* 14MAY10A | BA6-360020 |
| EPA - State Prep & Iss Accept Ltr CCR-ICS C | | | | 100 | 26JAN11A | 0 09SEP10A | BA6-360030 |
| Cover CCR Part I Complete - ICS C | | | | 100 | 26JAN11A | 0 | BA6-360040 |
| CCR Process - BA Ops / ICS Cover | | | | 100 | 26JAN11A | 0* 27DEC04A | BA6-INF |

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| BA7-600000 | Monitoring/Maintenan | SSSS of the color bear State to the color of | د | | Principal de la company de |
| BA7-600000 | 0 01OCT | 08A 30NOV10A | 100 | | BA Cover-Begin 5 Year Veg. Obs. & Rprt Period |
| BA7-100000 | 0* 01OCT | 08A 30NOV10A | 100 | | <<< Short-Term M&M >>>> - Basin A Cover |
| Early Start P | rojects | | | | |
| | emical Sewer Manho | e Plugging-Phase I | | | |
| Remedial D | COCCUCLORUSCOSCOSCIO AL COCCIPAL CARRANTAN | enninger state for some manner some stores | | | |
| \$12-120000 | 0 03JUN | 96A 16JAN97A | 100 | Prepare / Revise Design Scope of Work - S/CSW1 | |
| S12-INF | 0* 03JUN | 96A 30MAY97A | 100 | Phase I Sanitary/Chem Sewer Design | |
| S12-130000 | 0 05AUG | 96A 17NOV96A | 100 | Prepare 30% (Conceptual) Design - S/CSW1 | |
| S12-125000 | 0 15NOV | 96A 23DEC96A | 100 | Regulator / RMA Committee Review - S/CSW1 | |
| S12-140000 | 0 18NOV | 96A 22DEC96A | 100 | Regulator / Committee Rev. & Public Input-S/SCW1 | |
| S12-150000 | 0 18NOV | 96A 02FEB97A | 100 | Prepare 60% Design - S/CSW1 | |
| S12-170000 | 0 03FEB | 97A 07MAR97A | 100 | Prepare 95% (Draft Final) Design - S/CSW1 | |
| \$12-160000 | 0 03FEB | 97A 10MAR97A | 100 | Regulator / Committee Review - S/CSW1 | |
| S12-175000 | 0 | 07MAR97A | 100 | ™ <<< <cdesign deadline="">>>>></cdesign> | |
| S12-180000 | 0 10MAR | 97A 21APR97A | 100 | Regulator/Committee Rev. & Public Comment-S/CSW1 | |
| \$12-190000 | 0 22APR | 97A 30MAY97A | 100 | Prepare 100% Design - S/CSW1 | |
| Remediation | Activities | | | | |
| S14-125000 | 0 03SEPS | 97A | 100 | <<<< <imp. deadline="" start="">>>>></imp.> | |
| S14-120000 | 0 03SEPS | 97A 03OCT97A | 100 | Mobilization - S/CSW1 | |
| S14-INF | 0* 03SEPS | 97A 23FEB98A | 100 | Phase I Sanitary/Chemical Sewer Plugging | |
| S14-135000 | 0 06OCT | 97A 14JAN98A | 100 | Plugging of Chemical Sewer Manholes | |

| Activity ID | Rem Start | Finish | % - Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
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| Remediation Activi | ities | | | |
| S14-130000 | 0 06OCT97A | 20FEB98A | 100 | Plugging of Sanitary Sewer Manholes - S/CSW1 |
| S14-140000 | 0 16FEB98A | 23FEB98A | 100 | Demobilization - S/CSW1 |
| S14-145000 | 0 | 23FEB98A | 100 | <<<< Finish Deadline>>>>> |
| Construction Com | pletion Report | | | |
| S16-150000 | 0 24FEB98A | 24APR98A | 100 | Prep Construction Cmplt Report (CCR) - S/CSW1 |
| S16-INF | 0* 24FEB98A | 30SEP98A | 100 | Constr Cmplt Rprt (CCR) Process - S/CSW1 |
| S16-150100 | 0 25APR98A | 18JÜN98A | 100 | Regulator/Committee Review CCR |
| S16-150200 | 0 19JUN98A | 13AUG98A | 100 | Incorp/Respond to Comments/Issue Final Draft CCR |
| S16-150300 | 0 14AUG98A | 30SEP98A | 100 | EPA-State Review/Prepare & Issue Acceptance Ltrs |
| S16-150400 | 0 | 30SEP98A | 100 | Phase I San/Chem Sewer Plugging Proj Complete |
| Shell/Complex Tre | nch Slurry Walls | | | |
| Remedial Design | | | | |
| SW2-120000 | 0 03JUN96A | 26JAN97A | 100 | Prepare / Revise Design Scope of Work - SLWL |
| SW2-INF | 0* 03JUN96A | 12SEP97A | 100 | Slurry Wall Design |
| SW2-130000 | 0 26AUG96A | 05JAN97A | 100 | Prepare 30% (Conceptual) Design - SLWL |
| SW2-125000 | 0 23DEC96A | 26JAN97A | 100 | Regulator / RMA Committee Review - SLWL |
| SW2-140000 | 0 06JAN97A | 09FEB97A | 100 | Regulator / Committee Rev. & Public Input - SLWL |
| SW2-150000 | 0 06JAN97A | 16FEB97A | 100 | Prepare 60% Design - SLWL |
| SW2-160000 | 0 17FEB97A | 03APR97A | 100 | Regulator / Committee Review - SLWL |
| SW2-170000 | 0 17FEB97A | 23JUN97A | 100 | Prepare 95% (Draft Final) Design - SLWL |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY1 |
|-------------------|------------------|----------|---------------|--|
| Remedial Design | | | | |
| SW2-180000 | 0 23JUN97A | 25JUL97A | 100 | Regulator / Committee Review - SLWL |
| SW2-175000 | 0 | 23JUN97A | 100 | |
| SW2-190000 | 0 28JUL97A | 12SEP97A | 100 | ⊞ Prepare 100% Design - SLWL |
| Remediation Activ | ities | | 1309838859859 | |
| SW4-125000 | 0 24APR98A | | 100 | <><< <imp. deadline<="" start="" td=""></imp.> |
| SW4-120000 | 0 27APR98A | 01JUN98A | 100 | Mobilization - SLWL |
| SW4-127500 | 0* 02JUN98A | 27JUL98A | 100 | UXO Clearance - Install Working Benches |
| SW4-127510 | 0 03JUN98A | 07APR00A | 100 | Support Slurry Wall Installation - BOR10 |
| SW4-127600 | 0* 20JUL98A | 02OCT98A | 100 | Perform Soil Borings - CXTR & SHTR |
| SW4-130000 | 0* 07JAN99A | 22MAR99A | 100 | Install Slurry Wall - CXTR |
| SW4-140000 | 0* 23MAR99A | 07APR00A | 100 | Install Slurry Wall-SHTR/ Extr Well/Trench/Pipe |
| SW4-165000 | 0 | 07APR00A | 100 | <<< <iimp. deadline="" finish="">>>>></iimp.> |
| SW4-430000 | 0* 14MAR00A | 06JÜL00A | 100 | Demobilization Demobilization |
| SW4-206500 | 0* 27APR98A | 07APR00A | 100 | Project Support Slurry Wall Construction |
| SW4-INF | 0* 02JUN98A | 07APR00A | 100 | Shell & Army Complex Trenches Slurry Walls |
| Construction Comp | oletion Report | | 2012224 | |
| SW6-170000 | 0 07JUL00A | 22MAR01A | 100 | Prep Construction Cmplt Report (CCR) - SLWL |
| SW6-INF1 | 0* 07JUL00A | 08JUN01A | 100 | Constr Cmplt Rprt (CCR) Process - SLWL |
| SW6-170010 | 0 22MAR01A | 09MAY01A | 100 | Regulator/Committee Review CCR - SLWL |
| SW6-170020 | 0 09MAY01A | 16MAY01A | 100 | I Incorp/Respond to Comments/Issue Draft CCR -SLWL |

| | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
|---------------------|---------------------|--|--|--|
| Construction Compl | etion Report | | | |
| SW6-170030 | 0 16MAY01A | 08JUN01A | 100 | EPA - State Prepare & Issue Accept Ltr CCR SLWL |
| SW6-170040 | 0 | 08JUN01A | 100 | Project Complete - Shell Treches Slurry Wall |
| 6W6-170100 | 0 07JUL00A | 13SEP00A | 100 | Prep Construction Cmplt Report (CCR) - CTSW |
| SW6-INF2 | 0* 07JUL00A | 03JUL01A | 100 | Constr Cmplt Rprt (CCR) Process - CTSW |
| SW6-170110 | 0 13SEP00A | 02NOV00A | 100 | Regulator/Committee Review CCR - CTSW |
| SW6-170120 | 0 02NOV00A | 21MAR01A | 100 | Incorp/Respond to Comments/Issue Draft CCR -CTSW |
| SW6-170130 | 0 22MAR01A | 03JUL01A | 100 | EPA - State Prepare & Issue Accept Ltr CCR CTSW |
| SW6-170140 | 0 | 03JUL01A | 100 | Project Complete - Complex Trenches Slurry Wall |
| SW6-155000 | 0 03SEP02A | 17SEP02A | 100 | Prep Addendum to CCR to Show Operat & Functional |
| SW6-155030 | 0 18SEP02A | 30SEP02A | 100 | © EPA-State Prep & Iss Acc Ltr-Operat & Functional |
| Short-Term Monitor | ing/Maintenance/Ope | rations | ###################################### | |
| SW7G200100 | 0* 12MAR01A | 30SEP02A | 100 | Water Level Monitoring of the CDT |
| SW7G200200 | 0 03OCT02A | 30SEP10A | 100 | Full Scale Ops (Short- Term)-Dewatering the CDT |
| ost-ROD Removal | Actions for Structu | ires | | |
| Remediation Activit | ies | Se Valentina de la companya de la co | | |
| CI4-130000 | 0 03JUN96A | 01DEC97A | 100 | Asbestos Removal - PRRA |
| CI4-140000 | 0 03JUN96A | 19JAN98Å | 100 | Ph I Chem Proc Equip Removal (Exterior) - PRRA |
| CI4-INF | 0* 03JUN96A | 28DEC99A | 100 | Chem Proc Equip Removal Ph I & Ph II |
| C14-205000 | 0 19JAN98A | 28DEC99A | 100 | Ph II Chem Proc Equip Removal (Interior) - PRRA |
| C14-200000 | 0 20JAN98A | 20MAR98A | 100 | Prep Const Cmplt Report (CCR)-Chem Proc Equip R |

| | Activity Ren | and the second s | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
|----------|-------------------------|--|----------|-----------|---|
| C | Construction Completion | on Report | | | |
| | CI6-210000 | 0 10JAN00A | 17APR00A | 100 | Prep Const Cmplt Report (CCR)-Chem Proc Equip R |
| CI | 16-INF | 0* 10JAN00A | 29SEP00A | 100 | Const Cplt Rprt (CCR) Process-Chem Proc Eq Ph II |
| CI | il6-210010 | 0 18APR00A | 19MAY00A | 100 | Regulator/Committee Review CCR - Chem Proc Equip |
| CI | CI6-210020 | 0 20MAY00A | 25SEP00A | 100 | Incorp/Resp to Com/Issue Draft CCR-Chem Proc Eq. |
| CI | i6-210030 | 0 26SEP00A | 29SEP00A | 100 | EPA/State Prep & Issue Accept Ltr-Chem Proc Eq |
| CI | 016-210040 | 0 | 29SEP00A | 100 | Project Complete - Chem Process Equip (Interior) |
| Phas | se I - Outlying Are | as | | | |
| Constant | xic Storage Yards So | | | 100 miles | |
| 7 | Remedial Design | on remediation | <u> </u> | | |
| | S2-120000 | 0 21APR98A | 21AUG98A | 100 | Prepare / Revise Design Scope of Work - TXSY |
| TS | S2-INF | 0* 21APR98A | 17MAR99A | 100 | Toxic Storage Yard Design |
| TS | S2-122000 | O | 15MAY98A | 100 | >>>Design Scope Deadline>>>>- TXSY |
| TE | S2-125000 | 0 18MAY98A | 13JUL98A | 100 | Regulator / RMA Committee Review - TXSY |
| TS | S2-130000 | 0 18MAY98A | 28AUG98A | 100 | Prepare 30% (Conceptual) Design - TXSY |
| TS | S2-150000 | 0 03AUG98A | 09OCT98A | 100 | Prepare 60% Design - TXSY |
| TS | S2-140000 | 0 31AUG98A | 30SEP98A | 100 | Regulator / Committee Rev. & Public Input - TXSY |
| TS | S2-170000 | 0 08OCT98A | 07DEC98A | 100 | Prepare 95% (Draft Final) Design - TXSY |
| TS | S2-160000 | 0 12OCT98A | 12NOV98A | 100 | Regulator / Committee Review - TXSY |
| TS | S2-175000 | 0 | 07DEC98A | 100 | »>>>Design Deadline>>>> - TXSY |
| TS | S2-180000 | 0 08DEC98A | 12FEB99A | 100 | Regulator / Committee Review - TXSY |

| Activity ID | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|------------------|-----------------|------------|---|---|
| Remedial Design | | | | |
| TS2-190000 | 0 01FEB99A | . 17MAR99A | 100 | Prepare 100% Design - TXSY |
| Remediation Act | ivities | - | | |
| TS4-125000 | 0 03MAY99A | 1 | 100 | <<<< <imp. deadline="" start="">>>>- TXSY</imp.> |
| TS4-120000 | 0* 03MAY99A | 24JUN99A | 100 | Mobilization- TXSY |
| TS4-220100 | 0* 03MAY99A | 30SEP99A | 100 | Project Support - Toxic Storage Yard Soil Rem |
| TS4-INF | 0* 03MAY99A | 30SEP99A | 100 | Toxic Storage Yard Remediation |
| TS4-130000 | 0* 10JUN99A | 08SEP99A | 100 | Non-Agent Structure Removal- TXSY |
| TS4-150000 | 0* 10JUN99A | 13SEP99A | 100 | Excavate Non-Agent/HH Soil - TXSY |
| TS4-140000 | 0* 14JUN99A | 15SEP99A | 100 | Agent Screening - TXSY |
| TS4-179600 | 0* 08JUL99A | 30SEP99A | 100 | BOR10 Support to Toxic Storage Yard Soils - TXSY |
| TS4-205000 | 0 | 15SEP99A | 100 | <pre> « <<<imp. deadline="" finish="">>>>- TXSY</imp.></pre> |
| TS4-200000 | 0* 16SEP99A | 30SEP99A | 100 | Demobilization - TXSY |
| Construction Co. | mpletion Report | | 300.000.000.000.000.000.000.000.000.000 | |
| TS6-210000 | 0 14OCT99/ | 10DEC99A | 100 | Prep Construction Cmplt Report (CCR) - TXSY |
| TS6-INF | 0* 14OCT99A | 20JUN00A | 100 | Const Cplt Rprt (CCR) Process-Toxic Storage Yard |
| TS6-210010 | 0 13DEC99A | A 12JANOOA | 100 | Regulator/Committee Review CCR - TXSY |
| TS6-210020 | 0 13JAN00A | 23FEB00A | 100 | Incorp/Respond to Comments/Issue Draft CCR - TXS |
| TS6-210030 | 0 24FEB00A | 20JUN00A | 100 | EPA - State Prepare & Issue Accept Ltr - TXSY |
| TS6-210040 | .0 | 20JUN00A | 100 | Project Complete - Toxic Storage Yard Soil Rem. |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|-------------------|--|----------|-----------------|---|---|
| | /) Landfill Remediation | n | | | ACCUMENTATION OF THE PROPERTY |
| Remedial Design | A SAN SAN SAN SAN SAN SAN SAN SAN SAN SA | | Carlon Language | | · · · · · · · · · · · · · · · · · · · |
| SF2-120000 | 0 13AUG97A | 12JAN98A | 100 | Prepare / Revise Design Scope of Work - SANL | |
| SF2-122000 | 0 | 14OCT97A | 100 | ™ <<<< DesignScope Deadline >>>>- SANL | |
| SF2-125000 | 0 15OCT97A | 18NOV97A | 100 | Regulator / RMA Committee Review - SANL | |
| SF2-130000 | 0 19NOV97A | 20FEB98A | 100 | Prepare 30% (Conceptual) Design - SANL | |
| SF2-140000 | 0 21FEB98A | 31MAR98A | 100 | Regulator / Committee Rev. & Public Input- SANL | |
| SF2-150000 | 0 23MAR98A | 28APR98A | 100 | 9 Prepare 60% Design - SANL | |
| SF2-160000 | 0 29APR98A | 30MAY98A | 100 | Regulator / Committee Review - SANL | |
| SF2-170000 | 0 01JUN98A | 22JUN98A | 100 | l Prepare 95% (Draft Final) Design - SANL | |
| SF2-175000 | 0 | 22JUN98A | 100 | | |
| SF2-180000 | 0 23JUN98A | 20JUL98A | 100 | Regulator / Committee Review - SANL | |
| SF2-190000 | 0 23JUL98A | 24AUG98A | 100 | Prepare 100% Design - SANL | |
| SF2-181000 | 0* 19OCT04A | 19MAY05A | 100 | | ESD for ESL All Sections |
| SF2-INF | 0* 13AUG97A | 19MÁY05A | 100 | Existing (San) Landfill Remediation Design | |
| Remediation Activ | vities | | | | |
| SF4-125000 | 0 22NOV98A | | 100 | হ <<<< <imp. deadline="" start="">>>> - SANL</imp.> | |
| SF4-120000 | 0* 22NOV98A | 26JUL99A | 100 | Mobilization - Existing (San) Landfill Sec 4 & 1 | |
| SF4-125500 | 0* 26MAY99A | 220CT99A | 100 | Agent Monitoring Exist. San Landfill Sect 4 & 1 | |
| SF4-135000 | 0* 26MAY99A | 22OCT99A | 100 | Consolidation of Non-HH Soil - Sect 4 & 1 ESL | |

| Activity ID | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
|--------------------------|----------------------------|----------------------|-----------|---|
| Remediation Activ | 0* 02AUG99A | 22OCT99A | 100 | Excavate HH Soil/Non-HH Material - Sect 4 & 1 |
| SF4-200000 | 0* 15SEP99A | 16SEP99A | 100 | Contingent Soil Excavation Sect 4 & 1 ESL |
| SF4-140000 | 0* 26MAY99A | 22OCT99A | 100 | Landfill HH Soil - Sect 4 & 1 ESL |
| SF4-130100 | 0* 08SEP99A | 17NOV99A | 100 | BOR1 Support to Existing (San) Landfill Sect 4 |
| SF4-INF1 | 0* 22NOV98A | 02DEC99A | 100 | Existing (San) Landfill Rem. Section 1 & 4 ESL |
| SF4-150000 | 0* 08SEP99A | 17NOV99A | 100 | Backfill w/Borrow Material - Sect 4 & 1 ESL |
| SF4-170000 | 0* 21SEP99A | 02DEC99A | 100 | Demobilization - Sect. 4 & 1 ESL |
| SF4-120021 | 0* 20DEC02A | 12MAR03A | 100 | Mobilization - Existing Landfill Sec 36 ESL |
| SF4-140021 | 0* 20FEB03A | 13MAY03A | 100 | Landfill HH Soil - Sect. 36 ESL |
| SF4-135021 | 0* 26FEB03A | 17JUL03A | 100 | Consolidation of Non-HH Soil - Sect 36 ESL |
| SF4-130021 | 0* 20FEB03A | 19AUG03A | 100 | Excavate HH Soil/Non-HH Material - Sect 36 ESL |
| SF4-176000 | 0* 03MAR03A | 19AUG03A | 100 | BOR7B Support to Sect 36 Exist San Landfill ESL |
| SF4-150021 SF4-130500 | 0* 10JUN03A 0* 02JUL03A | 27AUG03A 09JUL03A | 100 | Backfill w/Borrow Material - Sect 36 ESL |
| SF4-130500 SF4-140500 | 0* 02JUL03A | 09JUL03A | 100 | Excavate New HHE Soil - Sect. 1 ESL |
| SF4-170021 | 0* 21AUG03A | 04SEP03A | 100 | Landfill Additional HHE Soil - Sect 1 ESL |
| SF4-177020 | 0* 22SEP03A | 26SEP03A | 100 | Demobilization - Sect 36 ESL |
| SF4-INF2 | 0* 20DEC02A | 26SEP03A | 100 | Revegetation - Sect 36 ESL |
| | J ZUDLOUZA | EUGLI OUA | 100 | Existing (San) Landfill Rem. Section 36 ESL |

| Activity ID | Rem Start Dur | Finish | % F | Y97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|-------------------|------------------|----------|------------------|---|
| Remediation Activ | vities | <u>I</u> | - 1115111 | |
| SF4-120001 | 0* 19NOV03A | 23JAN04A | 100 | Mobilization - Existing Landfill Sec 30 ESL |
| SF4-140001 | 0* 12JAN04A | 14JAN04A | 100 | i Landfill HH Soil - Sect. 30 ESL |
| SF4-135001 | 0* 05JAN04A | 27MAY04A | 100 | Removal and Disposal of Trash and Debris Sec 30 |
| SF4-130001 | 0* 12JAN04A | 14JAN04A | 100 | Excavation of HH-1/HHE Material Sec 30 |
| SF4-141001 | 0* 26APR04A | 16JUN04A | 100 | □ Final Grading - Section 30 ESL |
| SF4-175000 | 0 | 16JUN04A | 100 | <<< Finish Deadline>>>> - SANL |
| SF4-170001 | 0* 14JUN04A | 16JUN04A | 100 | I Demobilization - Sect 30 ESL |
| SF4-177000 | 0* 09JUL04A | 20JUL04A | 100 | Revegetation - Sect 30 ESL |
| SF4-INF3 | " 0* 19NOV03A | 20JUL04A | 100 | Existing (San) Landfill Rem. Section 30 ESL |
| SF4-190100 | 0* 22NOV98A | 20JÜL04A | 100 | Project Support Existing (San) LF 1&4 and Rem. |
| SF4-INF | 0* 22NOV98A | 20JUL04A | 100 | Existing (San) Landfill Rem. |
| Construction Con | npletion Report | | 2266807686456886 | |
| SF6-200100 | 0 20SEP99A | 20NOV99A | 100 | Prep Construction Cmplt Report CCR - Section 1 |
| SF6-200110 | 0 21NOV99A | 15DEC99A | 100 | ย Regulator/Committee Review CCR - Section 1 |
| SF6-200120 | 0 16DEC99A | 28JAN00A | 100 | Incorp/Respond to Comment/Issue Draft CCR Sect 1 |
| SF6-200130 | 0 29JAN00A | 29FEB00A | 100 | EPA State Prepare & Issue Accept Ltr CCR-Sect 1 |
| SF6-200140 | 0 | 29FEB00A | 100 | Project Complete - Section 1 Sanitary Landfill |
| SF6-INF1 | 0* 20SEP99A | 25MAY00A | 100 | Const Cplt Rprt (CCR) Process - Section 1 & 4 |
| SF6-200200 | 0 17NOV99A | 19JAN00A | 100 | Prep Construction Cmplt Report CCR - Section 4 |

| Activity ID | Rem Start | Finish % | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|------------------|----------------|----------------|--|
| Construction Com | pletion Report | | |
| SF6-200210 | 0 20JAN00A | 22FEB00A 100 | Regulator/Committee Review CCR - Section 4 |
| SF6-200220 | 0 16FEB00A | 15MAR00A 100 | Incorp/Respond to Comment/Issue Draft CCR Sect 4 |
| SF6-200230 | 0 16MAR00A | 25MAY00A 100 | EPA State Prepare & Issue Accept Ltr CCR-Sect 4 |
| SF6-200240 | 0 | 25MAY00A 100 | Project Complete - Section 4 Sanitary Landfill |
| SF6-180300 | 0 25AUG03A | 01OCT03A 100 | Prep Construction Cmplt Report Section 36 |
| SF6-INF2 | 0* 25AUG03A | 15JUL04A 100 | Const Cplt Rprt (CCR) Process - Section 36 |
| SF6-180310 | 0 06OCT03A | 08NOV03A 100 | Regulator/Committee Review CCR - Section 36 |
| SF6-180320 | 0 09NOV03A | 12APR04A 100 | Respond to Comments/Issue Draft Section 36 |
| SF6-180330 | 0 13APR04A | 15JUL04A 100 | EPA/State Prepare & Issue Accept Ltr Sect 36 |
| SF6-180340 | 0 | 15JUL04A 100 | Project Complete - Section 36 San Landfill |
| SF6-180400 | 0 18JUN04A | 23AUG04A 100 | Prep Construction Cmplt Report Section 30 |
| SF6-INF3 | 0* 18JUN04A | 16AUG05A 100 | Const Cplt Rprt (CCR) Process - Section 30 |
| SF6-180410 | 0* 29MAR05A | 28APR05A 100 | g Regulator/Committee Review CCR - Section 30 |
| SF6-180420 | 0* 29APR05A | 26MAY05A 100 | Respond to Comments/Issue Draft Section 30 |
| SF6-180430 | 0 26MAY05A | 16AUG05A - 100 | EPA/State Prepare & Issue Accept Ltr Sect 30 |
| SF6-180440 | 0 | 16AUG05A 100 | Project Complete - Section 30 San Landfill |
| SF6-INF | 0* 20SEP99A | 16AUG05A 100 | Const Cplt Rprt (CCR) Process-Section 1,4,30,36 |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
|-------------------|--|--|-----------------------|---|
| ake Sediments R | Remediation | | | |
| Remedial Design | raksalli elikeritten province, namuskanakanaka | ZE BOZO ZEROSO SO | EURONES SOCIALISTO DE | |
| LS2-120000 | 0 29SEP97A | 09FEB98A | 100 | Prepare / Revise Design Scope of Work - LAKS |
| LS2-INF | 0* 29SEP97A | 13OCT98A | 100 | Lake Sediments Design |
| LS2-122000 | O Comment | 24NOV97A | 100 | Signal of the state of the |
| LS2-125000 | 0 25NOV97A | 29DEC97A | 100 | Regulator / RMA Committee Review - LAKS |
| LS2-130000 | 0 10FEB98A | 06APR98A | 100 | Prepare 30% (Conceptual) Design - LAKS |
| LS2-140000 | 0 07APR98A | 08MAY98A | 100 | Regulator / Committee Rev. & Public Input - LAKS |
| LS2-150000 | 0 07APR98A | 08JUN98A | 100 | 60% Design - LAKS |
| LS2-131000 | 0 | 22APR98A | 100 | Transition 30% Design to Foster Wheeler |
| LS2-170000 | 0 02JUN98A | 03AUG98A | 100 | 95% (Draft Final) Design - LAKS |
| LS2-160000 | 0 08JUN98A | 16JUL98A | 100 | Regulator / Committee Review - LAKS |
| LS2-180000 | 0 03AUG98A | 04SEP98A | 100 | Regulator / Committee Review - LAKS |
| LS2-175000 | 0 | 03AUG98A | 100 | < |
| LS2-190000 | 0 08SEP98A | 130CT98A | 100 | Prepare 100% Design - LAKS |
| Remediation Activ | /ities | 2.4.00.0.00 | | |
| LS4-125000 | 0 13DEC98A | | 100 | <<<< <imp. deadline="" start="">>>>> - LAKS</imp.> |
| LS4-130000 | 0* 13DEC98A | 07OCT99A | 100 | Excavate HH/Selected Biota Soil - LAKS |
| LS4-160000 | 0* 06JUL99A | 25AUG99A | 100 | E Landfill HH Soil - LAKS |
| _S4-150000 | 0* 19JUL99A | 06AUG99A | 100 | Consolidate Selected Biota Soil to Basin A- LAKS |

| | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
|---------------------|------------------|----------|-----------|---|
| Remediation Activit | ies | | | |
| LS4-195000 | 0 | 25AUG99A | 100 | <><< <imp. deadline="" finish="">>>>> - LAKS</imp.> |
| LS4-190000 | 0* 01SEP99A | 07OCT99A | 100 | Demobilization - LAKS |
| LS4-210000 | 0* 13DEC98A | 07OCT99A | 100 | Project Support - Lake Sediments Remediation |
| LS4-INF | 0* 13DEC98A | 07OCT99A | 100 | Lake Sediments Remediation |
| Construction Comp | letion Report | | l | |
| LS6-200000 | 0 08OCT99A | 07DEC99A | 100 | Prep Construction Cmplt Report (CCR) - LAKS |
| LS6-INF | 0* 08OCT99A | 20APRO0A | 100 | Const Cplt Rprt (CCR) Process - LAKS |
| LS6-200010 | 0 08DEC99A | 08JAN00A | 100 | Regulator/Committee Review CCR - LAKS |
| LS6-200020 | 0 10JAN00A | 13FEB00A | 100 | Incorp/Respond to Comments/Issue Draft CCR -LAKS |
| LS6-200030 | 0 14FEB00A | 20APR00A | 100 | EPA - State Prepare & Issue Accept Ltr CCR-LAKS |
| LS6-200040 | 0 | 20APR00A | 100 | Project Complete - Lake Sediments Soil Rem |
| Burial Trenches Soi | I Remediation | | | and the sum of the sum of the support of the support of the support of the support of the sum of the sum of the |
| Remedial Design | Tromodiudon | | | |
| BT2-120000 | 0 22AUG97A | 22DEC97A | 100 | Prepare / Revise Design Scope of Work - BUTR |
| BT2-INF | 0* 22AUG97A | 13DEC99A | 100 | Burial Trenches Design |
| BT2-122000 | 0 | 01OCT97A | 100 | - designScope Deadline >>>>- BUTR |
| BT2-125000 | 0 020CT97A | 05NOV97A | 100 | Regulator / RMA Committee Review - BUTR |
| BT2-130000 | 0 06NOV97A | 15APR98A | 100 | Prepare 30% (Conceptual) Design - BUTR |
| BT2-140000 | 0 16APR98A | 29MAY98A | 100 | ଷ Regulator / Committee Rev. & Public Input - BUTR |
| BT2-150000 | 0 16APR98A | 28AUG98A | 100 | Prepare 60% Design - BUTR |

| Activity ID | Rem Start Dur | Finish | % FY9 | 7 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|-----------------|------------------|----------|------------------------|--|
| Remedial Design | | | Estimation of Viviana | |
| BT2-160000 | 0 31AUG98A | 05OCT98A | 100 | Regulator / Committee Review - BUTR |
| BT2-170000 | 0 05OCT98A | 15SEP99A | 100 | Prepare 95% (Draft Final) Design - BUTR |
| BT2-175000 | 0 | 15SEP99A | 100 | 爾 <<<< <design deadline="">>>>> - BUTR</design> |
| BT2-180000 | 0 16SEP99A | 13OCT99A | 100 | Regulator / Committee Review - BUTR |
| BT2-190000 | 0* 14OCT99A | 13DEC99A | 100 | Prepare 100% Design - BUTR |
| Remediation Act | ivities | | 1. Allini kuntukusensa | |
| BT4-125000 | 0 28FEB00A | | 100 | <<<< <imp. deadline="" start="">>>>> - BUTR</imp.> |
| BT4-120000 | 0* 28FEB00A | 28APR00A | 100 | Mobilization - BUTR |
| BT4-160000 | 0* 28APR00A | 15SEP00A | 100 | Excavate HH/Munitions Debris Soil - BUTR |
| BT4-130000 | 0* 01JUN00A | 15SEP00A | 100 | OE Screening - BUTR |
| BT4-200110 | 0* 27JUL00A | 030CT00A | 100 | Soil Ammendments- BUTR |
| BT4-190000 | 0* 01SEP00A | 09OCT00A | 100 | ੀ Backfill w/Borrow Material - BUTR |
| BT4-240000 | 0* 01SEP00A | 09OCT00A | 100 | BOR10 Support to Burial Trenches - BUTR |
| BT4-200120 | 0* 11SEP00A | 13OCT00A | 100 | Revegetation - BUTR |
| BT4-210000 | 0 10OCT00A | 24OCT00A | 100 | i Demobilization - BUTR |
| BT4-121000 | 0* 22JAN01A | 08FEB01A | 100 | l Mobilization - Section 4 Trenches |
| BT4-131000 | 0* 12FEB01A | 14MAR01A | 100 | Agent Monitoring - Section 4 Trenches |
| BT4-161000 | 0* 12FEB01A | 14MAR01A | 100 | Excavate Munitions Debris Soil - Sect 4 Trenches |
| BT4-250000 | 0* 14MAR01A | 22MAR01A | 100 | l BOR1 Support to Section 4 Trenches - BUTR |

| Activity ID | Rem Start Dur | Finish % | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|-------------------|------------------|--------------|---|
| Remediation Activ | rities | | |
| BT4-191000 | 0* 14MAR01A | 28MAR01A 100 | Backfill w/Borrow Material - Section 4 Trenches |
| BT4-200310 | 0* 26MAR01A | 27MAR01A 100 | Soil Ammendments - Section 4 Trenches |
| BT4-210200 | 0* 26MAR01A | 30MAR01A 100 | l Demobilization Section 4 Trenches |
| BT4-200320 | 0* 28MAR01A | 30MAR01A 100 | l Revegetation Section 4 Trenches |
| BT4-122000 | 0* 21AUG01A | 22AUG01A 100 | Mobilization Before UXO - ESA-2c |
| BT4-130100 | 0* 23AUG01A | 24AUG01A 100 | I OE Screening Before UXO ESA-2c - BUTR |
| BT4-160100 | 0* 23AUG01A | 24AUG01A 100 | I Excavate HHE Soil ESA-2c Before UXO - BUTR |
| BT4-210100 | 0* 27AUG01A | 29AUG01A 100 | l Demobilization ESA-2c & Before UXO - BUTR |
| BT4-122100 | 0* 27AUG02A | 30SEP02A 100 | Mobilization - ESA-2c |
| BT4-130200 | 0* 28AUG02A | 30DEC02A 100 | OE Screening After UXO ESA-2c - BUTR |
| BT4-160200 | 0* 25SEP02A | 21FEB03A 100 | Excavate HHE Soil ESA-2c & Other Trenches - BUTR |
| BT4-170100. | 0* 04NOV02A | 21FEB03A 100 | Backfill ESA-2c & Other Trenches - BUTR |
| BT4-210210 | 0* 27NOV02A | 06MAR03A 100 | Demobilization ESA-2c & Other Trenches - BUTR |
| BT4-230000 | 0* 28FEB00A | 06MAR03A 100 | Project Support - Burial Trench Soil Rem,EAS-2c |
| BT4-INF | 0* 28FEB00A | 06MAR03A 100 | Burial Trench Soils Remediation |
| BT4-200210 | 0* 06DEC02A | 12FEB03A 100 | Soil Amendments ESA-2c & Other Trenches - BUTR |
| BT4-200220 | 0* 11DEC02A | 14FEB03A 100 | Revegetation ESA-2c & Other Trenches - BUTR |
| BT4-215000 | 0 | 06MAR03A 100 | |

| ID | Dur | | % | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
|-------------------------------|---------------------|----------|-----|--|
| Construction Con | npletion Report | | | |
| BT6-220100 | 0 02APR01A | 25APR02A | 100 | Prep Construction Cmplt Report (CCR) Part I |
| BT6-INF1 | 0* 02APR01A | 25SEP02A | 100 | Const Cplt Rprt (CCR) Process Part I |
| BT6-220110 | 0 26APR02A | 28MAY02A | 100 | Regulator/Committee Review CCR Part I |
| BT6-220120 | 0 29MAY02A | 27JUN02A | 100 | Incorp/Respond to Comments Draft CCR Part I |
| BT6-220130 | 0 28JUN02A | 25SEP02A | 100 | EPA - State Prepare & Issue Accept Ltr CCR-BUTR |
| BT6-220000 | 0 07MAR03A | 01MAY03A | 100 | Prep Construction Cmplt Report (CCR) Part II |
| BT6-INF2 | 0* 07MAR03A | 30SEP04A | 100 | Const Cplt Rprt (CCR) Process Part II |
| BT6-220010 | 0 01MAY03A | 02JUN03A | 100 | ଞ Regulator/Committee Review CCR Part II |
| BT6-220020 | 0 03JUN03A | 28SEP04A | 100 | Incorp/Respond to Comments Draft CCR Part II |
| BT6-220030 | 0 29SEP04A | 30SEP04A | 100 | EPA State Prepare/Issue Accept Ltr CCR Part II |
| BT6-220040 | 0 | 30SEP04A | 100 | Project Complete - Burial Trenches Soil Remed |
| BT6-INF | 0* 02APR01A | 30SEP04A | 100 | Const Cplt Rprt (CCR) Process - BUTR |
| | g) Soil Remediation | 1 | | |
| Remedial Design MT2-120000 | 0 22AUG97A | 22DEC97A | 100 | Prepare / Revise Design Scope of Work - MUNT |
| MT2-INF1 | 0* 22AUG97A | 08MAR00A | 100 | Munitions Testing Design |
| MT2-122000 | 0 | 01OCT97A | 100 | 或 <<<< DesignScope Deadline >>>>- MUNT |
| MT2-125000 | 0 02OCT97A | 05NOV97A | 100 | ₪ Regulator / RMA Committee Review - MUNT |
| MT2-130000 | 0 06NOV97A | 15APR98A | 100 | Prepare 30% (Conceptual) Design - MUNT |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
|-------------------|--|-----------|-----------|---|
| Remedial Design | 0 16APR98A | 29MAY98A | 100 | |
| W112-140000 | U TOAPNOON | 29WA1198A | 100 | Regulator / Committee Rev. & Public Input - MUNT |
| MT2-150000 | 0 24APR98A | 28AUG98A | 100 | Prepare 60% Design - MUNT |
| MT2-160000 | 0 31AUG98A | 25SEP98A | 100 | Regulator / Committee Review - MUNT |
| MT2-170000 | 0* 28SEP98A | 13OCT99A | 100 | Prepare 95% Design - MUNT |
| MT2-175000 | 0 | 15SEP99A | 100 | <<<<>Design Deadline>>>>> - MUNT |
| MT2-180000 | 0 16SEP99A | 13OCT99A | 100 | Regulator / Committee Review - MUNT |
| MT2-190000 | 0* 140CT99A | 08MAR00A | 100 | Prepare 100% Design - MUNT |
| MT2-195000 | 0* 16APR01A | 15JAN02A | 100 | Prepare/Present Facts Sheet to Public |
| MT2-200000 | 0* 16APR01A | 15FEB06A | 100 | ESD and DCN to Munitions Testing Design |
| MT2-500000 | 0* 30SEP05A | 15FEB06A | 100 | Prepare Design - Demolition Range Exclusion Zone |
| MT2-190300 | 0* 08MAY06A | 03JUL07A | 100 | Site Characterization - Potential Burial Trench |
| MT2-500090 | 0* 02OCT06A | 30APR07A | 100 | Prepare Demolition Range Closure Plan and SAP |
| MT2-500220 | 0 15JAN07A | 17APR07A | 100 | DCN Process - Demo Range Closure Plan |
| MT2-INF2 | 0* 16APR01A | 30APR07A | 100 | Munitions Testing Design - ESD & DREZ |
| MT2-INF | 0* 22AUG97A | 03JUL07A | 100 | Munitions Testing Design |
| Remediation Activ | and the second s | | | |
| MT4-125000 | 0 01MAR00A | | 100 | <<<< <imp. deadline="" start="">>>> - MUNT</imp.> |
| MT4-120000 | 0* 01MAR00A | 22SEP00A | 100 | Mobilization - MUNT |
| MT4-140100 | 0* 24JUL00A | 06OCT00A | 100 | OE Screening - MUNT |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|-----------------|------------------|----------|--------|--|
| Remediation Act | ivities | | | |
| MT4-150000 | 0* 24JUL00A | 04OCT00A | 100 | Excavate Munition Debris & Surficial Soil - MUNT |
| MT4-160000 | 0* 24JUL00A | 04OCT00A | 100 | Landfill Debris and Surficial Soil - MUNT |
| MT4-170110 | 0* 12SEP00A | 09OCT00A | 100 | Soil Amendments - MUNT |
| MT4-170120 | 0* 19SEP00A | 08NOV00A | 100 | Revegetation - MUNT |
| MT4-190000 | 0* 010CT00A | 04OCT00A | 100 | l Backfill |
| MT4-180000 | 0* 09OCT00A | 20OCT00A | 100 | i Demobilization - MUNT |
| MT4-185000 | 0 | 08NOV00A | 100 | <pre></pre> <pre>MUNT</pre> |
| MT4-INF1 | 0* 01MAR00A | 08NOV00A | 100 | Munitions (Testing) Soil Rem MUNT |
| MT4-195500 | 0* 01MAY02A | 06DEC02A | 100 | Geophyiscal Clearance / Target ID |
| MT4-195550 | 0* 06MAR03A | 20MAY03A | 100 | Retrieval of QC Identified Targets > 1' Deep |
| MT4-195555 | 0* 21MAY03A | 04FEB04A | 100 | QC Verification of Deep Target Retrieval |
| MT4-195560 | 0* 27JUN03A | 12JUL05A | 100 | Retrieval of ESA-4a QC Identfd Targets |
| MT4-195590 | 0* 27OCT03A | 19APR04A | 100 | Homestead Remediation |
| MT4-195580 | 0* 07FEB05A | 22FEB06A | 100 | Prepare/Revise Final Reports |
| MT4-195600 | 0* 17AUG05A | 15JUN06A | 100 | Revegetation of ESA-4a |
| MT4-300000 | 0* 02NOV05A | 06FEB07A | 100 | DREZ Survey and Characterization |
| MT4-196000 | 0* 10AUG06A | 05FEB07A | 100 | Prepare QA Geophysical Survey Report DRE |
| MT4-400010 | 0* 14AUG06A | 05FEB07A | 100 | Munitions Response - BA9A P2/CSA-2c SW/ |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY1 | 0 FY11 |
|--------------------|------------------|----------|---|--|--------------|
| Remediation Activi | ities | | | | |
| MT4-196010 | 0* 040CT06A | 160CT07A | 100 | Prepare Final Reports DREZ | |
| MT4-INF2 | 0* 01MAY02A | 160CT07A | 100 | Munitions (Testing) ESA-4a | |
| MT4-500100 | 0 23APR07A | 30APR07A | 100 | l Mobilization - Demo Range 0 | Closure MT i |
| MT4-500120 | 0* 01MAY07A | 29FEB08A | 100 | Field Implementation - Dem | no Range Cl |
| MT4-500130 | 0 10MAR08A | 14MAR08A | 100 | Demobilization - Demo Range C | Closure MT |
| MT4-INF3 | 0* 01MAY07A | 14MAR08A | 100 | Sec. 29 Demo Range Closs | ure - MT Pa |
| MT4-185001 | 0 | 25MAR08A | 100 | <<< <imp. deadline<="" finish="" td=""><td>2>>>> -</td></imp.> | 2>>>> - |
| MT4-200000 | 0* 01MAR00A | 14MAR08A | 100 | Project Support - MUNT | |
| MT4-INF | 0* 01MAR00A | 14MAR08A | 100 | Munitions Testing Remediation | |
| MT4-500270 | 0* 26MAR08A | 29JUL08A | 100 | DSR Process - MT | Part IV |
| MT4-500280 | 0* 26MAR08A | 18NOV08A | 100 | ESD - Munitions Te | esting |
| MT4-300500 | 0* 14NOV05A | 16DEC05A | 100 | BT 32-10 Characterization | |
| Construction Com | pletion Report | r kes | 1414 1111111111111111111111111111111111 | | |
| MT6-190000 | 0 09NOV00A | 08JAN01A | 100 | Prep Construction Cmplt Report (CCR) | |
| MT6-INF1 | 0* 09NOV00A | 15JUL04A | 100 | Const Cplt Rprt (CCR) Process-MUNT | |
| MT6-190010 | 0 08JAN01A | 09FEB01A | 100 | Regulator/ Committee Review CCR | |
| MT6-190020 | 0 03MAR03A | 20NOV03A | 100 | Incorp/Respond to Comments Draft CCR | - |
| MT6-190030 | 0 21NOV03A | 15JUL04A | 100 | EPA - State Prepare/Issue Accept Ltr CCR | |
| MT6-190040 | 0 | 15JUL04A | 100 | Project Complete - Munitions Testing | |

| Activity ID | Rem Start | Finish | % — Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 F | /05 FY06 FY07 FY08 FY09 FY10 FY11 FY |
|------------------|-------------|----------|-------------|---|---|
| Construction Com | | 1 | • 1111 | | |
| MT6-190200 | 0 01NOV05A | 23JAN07A | 100 | | Prep Draft Final MT CCR Part II for RVO Review |
| MT6-INF2 | 0* 01NOV05A | 08APR08A | 100 | | CCR Process - MT CCR Part II |
| MT6-190250 | 0 17JAN07A | 23JAN07A | 100 | | RVO Review Draft Final MT CCR Part 2 |
| MT6-190260 | 0 26JAN07A | 31JAN07A | 100 | | l Issue DF MT CCR Part 2 for Agency Review |
| MT6-190210 | 0 01FEB07A | 07MAR07A | 100 | | ☐ Agency/Commttee Rview - Draft Final MT CCR P |
| MT6-190220 | 0 08MAR07A | 11MAY07A | 100 | | Incorp/Resp to Comment - Draft Final MT CCI |
| MT6-190230 | 0 28SEP07A | 08APR08A | 100 | | EPA - State Prep & Iss Acpt Ltr Prep -MT Pa |
| MT6-190240 | 0 | 08APR08A | 100 | | Project Complete - Munitions Testing Pa |
| MT6-INF3 | 0* 07FEB07A | 26MAR08A | 100 | | Constr Cmplt Rprt (CCR) Process - MT Part |
| MT6-190300 | 0 30MAR07A | 05APR07A | 100 | | l Prep Construction Cmplt Rpt (CCR) - MT Par |
| MT6-190310 | 0 06APR07A | 25JUN07A | 100 | | Regulator/Committee Review CCR - MT Par |
| MT6-190320 | 0 26JUN07A | 01NOV07A | 100 | | Incorp/Resp to Cmts/Iss Draft CCR - MT Par |
| MT6-190330 | 0 16NOV07A | 26MAR08A | 100 | | EPA - State Prep & Iss Acpt Ltr CCR -MT Par |
| MT6-190340 | 0 | 26MAR08A | 100 | | Project Complete - Munitions Testing Par |
| MT6-500110 | 0* 26MAR08A | 27MAY08A | 100 | | Prep Construction Cmplt Rpt (CCR) - MT Part |
| MT6-INF4 | 0* 26MAR08A | 14MAY09A | 100 | | CCR - Munitions Testing - Part IV |
| MT6-500120 | 0* 30MAY08A | 10JUL08A | 100 | | Regulator/Committee Review CCR - MT Par |
| MT6-500130 | 0* 11JUL08A | 05DEC08A | 100 | | Incorp. Comments & Resubmit CCR - MT Par |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY |
|--------------------|---|----------|---|--|
| Construction Comp | oletion Report | 1 | • | |
| MT6-500140 | 0* 08DEC08A | 14MAY09A | 100 | EPA - State Prep & Iss Acpt Ltr CCR - MT Part |
| MT6-500150 | . 0 | 14MAY09A | 100 | Project Complete - Munitions Testing Part |
| MT6-INF | 0* 09NOV00A | 14MAY09A | 100 | Const Cplt Rprt (CCR) Process - MT Project |
| iscellaneous Nort | thern Tier Soil Reme | diation | | |
| Remedial Design | | | | |
| NM2-120000 | 0 29SEP97A | 09FEB98A | 100 | Prepare / Revise Design Scope of Work - NM |
| NM2-INF | 0* 29SEP97A | 130CT98A | 100 | Misc. N. Tier Soil Design |
| NM2-122000 | 0 | 24NOV97A | 100 | < DesignScope Deadline >>>>- NM |
| NM2-125000 | 0 25NOV97A | 29DEC97A | 100 | Regulator / RMA Committee Review - NM |
| NM2-130000 | 0 10FEB98A | 06APR98A | 100 | Prepare 30% (Conceptual) Design - NM |
| NM2-140000 | 0 07APR98A | 08MAY98A | 100 | Regulator / Committee Rev. & Public Input- NM |
| NM2-150000 | 0 07APR98A | 08JUN98A | 100 | Prepare 60% Design - NM |
| NM2-131000 | 0 | 22APR98A | 100 | Transition 30% Design to Foster Wheeler |
| NM2-170000 | 0 04JUN98A | 03AUG98A | 100 | Prepare 95% (Draft Final) Design - NM |
| NM2-160000 | 0 08JUN98A | 16JUL98A | 100 | Regulator / Committee Review - NM |
| NM2-175000 | 0 100 100 100 100 100 100 100 100 100 1 | 03AUG98A | 100 | Selection of the selection of th |
| NM2-180000 | 0 04AUG98A | 04SEP98A | 100 | Regulator / Committee Review - NM |
| NM2-190000 | 0 08SEP98A | 13OCT98A | 100 | Prepare 100% Design - NM |
| Remediation Activi | ties | | ASSESSED NEXT CONTROL | |
| NM4-125000 | 0 22DEC98A | | 100 | <><< Start Deadline>>>> - NM |

| Activity ID | Rem Start | Finish | % F | -Y97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|--------------------------------------|----------------------|----------|-----|---|
| Remediation Activ | ities | : - | • | |
| NM4-120000 | 0* 22DEC98A | 16APR99A | 100 | Mobilization - NM |
| NM4-260000 | 0* 22DEC98A | 07OCT99A | 100 | Project Support - Misc Northern Tier Soil Rem |
| NM4-INF | 0* 22DEC98A | 07OCT99A | 100 | Misc. N. Tier Soil Remediation |
| NM4-135001 | 0* 20APR99A | 28SEP99A | 100 | Structure Demolition - NM |
| NM4-135000 | 0* 04MAY99A | 25JUN99A | 100 | © Consolidation of Biota Soil to Basin A - NM |
| NM4-130000 | 0* 04MAY99A | 010CT99A | 100 | Excavate HH/Biota Soil - NM |
| NM4-137500 | 0* 11MAY99A | 10SEP99A | 100 | Landfill Agent/HH/Chemical Sewer - NM |
| NM4-157500 | 0* 11JUN99A | 01ОСТ99А | 100 | Backfill w/Borrow Material - NM |
| NM4-240000 | 0* 05OCT99A | 07OCT99A | 100 | Demobilization - NM |
| NM4-245000 | 344 O (1984) | 07OCT99A | 100 | ্র <<< Finish Deadline>>>>> - NM |
| Construction Com | pletion Report | | | |
| NM6-250000 | 0 08OCT99A | 07DEC99A | 100 | Prep Construction Cmplt Report (CCR) - NM |
| NM6-INF | 0* 080CT99A | 20APR00A | 100 | Const Cplt Rprt (CCR) Process-NM |
| NM6-250010 | 0 08DEC99A | 10JAN00A | 100 | Regulator/Committee Review CCR - NM |
| NM6-250020 | 0 11JAN00A | 13FEB00A | 100 | Incorp/Respond to Comments/Issue Draft CCR - NM |
| NM6-250030 | 0 14FEB00A | 20APR00A | 100 | EPA - State Prepare & Issue Accept Ltr CCR - NM |
| NM6-250040 | 0 | 20APR00A | 100 | Misc Northern Tier Soil Project Complete |
| liscellaneous. So Remedial Design | uthern Tier Soil Rem | ediation | | |
| SM2-120000 | 0 29SEP97A | 09FEB98A | 100 | Prepare / Revise Design Scope of Work - SM |

| Activity ID | Rem Start Dur | Finish | % — Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|-------------------|------------------|----------|-------------|--|---|
| Remedial Design | | | | | |
| SM2-122000 | 0 | 24NOV97A | 100 | << DesignScope Deadline >>>- SM | |
| SM2-125000 | 0 25NOV97A | 29DEC97A | 100 | Regulator / RMA Committee Review - SM | |
| SM2-130000 | 0 10FEB98A | 06APR98A | 100 | Prepare 30% (Conceptual) Design - SM | |
| SM2-131000 | 0 | 06APR98A | 100 | Transition 30% Design to Foster Wheeler | |
| SM2-140000 | 0 07APR98A | 08MAY98A | 100 | Regulator / Committee Rev. & Public Input - SM | |
| SM2-150000 | 0 07APR98A | 08JUN98A | 100 | ⊞ Prepare 60% Design - SM | |
| SM2-170000 | A86NÜLEO 0 | 03AUG98A | 100 | Prepare 95% (Draft Final) Design - SM | |
| SM2-160000 | A8e/UULeo 0 | 16JUL98A | 100 | Regulator / Committee Review - SM | |
| SM2-175000 | | 03AUG98A | 100 | জ <<<< <design deadline="">>>>> - SM</design> | |
| SM2-180000 | 0 04AUG98A | 04SEP98A | 100 | Regulator / Committee Review - SM | |
| SM2-190000 | 0 08SEP98A | 13OCT98A | 100 | Prepare 100% Design - SM | |
| SM2-185000 | 0* 22FEB05A | 19OCT05A | 100 | | MST Soil Rem. Sampling and Design - SCL |
| SM2-190100 | 0* 200CT05A | 22DEC05A | 100 | | Regul.Review DCN - SCL - Misc. ST Soil |
| SM2-INF | 0* 29SEP97A | 22DEC05A | 100 | Misc. Southern Tier Soil Remediation Design | |
| Remediation Activ | rities | | | | |
| SM4-125000 | 0 22DEC98A | | 100 | ্ল <<<< <imp. deadline="" start="">>>>> - SM</imp.> | |
| SM4-120000 | 0* 22DEC98A | 22JUL99A | 100 | Mobilization - SM | |
| SM4-INF1 | 0* 22DEC98A | 07OCT99A | 100 | Misc Southern Tier Rem SM | |
| SM4-140001 | 0* 12APR99A | 17SEP99A | 100 | Structure Demolition - SM | |

| Activity ID | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|----------------|-------------|---------------------------------------|--------|---|
| Remediation Ad | tivities | · · · · · · · · · · · · · · · · · · · | | |
| SM4-130000 | 0* 14JUN99A | 30SEP99A | 100 | Excavate HH/Biota/Priority 1 Soil - SM |
| SM4-140000 | 0* 14JUL99A | 30SEP99A | 100 | Consolidation of Biota Soil to Basin A - SM |
| SM4-210000 | 0* 15JUL99A | 07OCT99A | 100 | Contingent Soil Excavation |
| SM4-150000 | 0* 19JUL99A | 30SEP99A | 100 | Landfill HH Soil - SM |
| SM4-160000 | 0* 23JUL99A | 05OCT99A | 100 | Backfill w/Borrow Material - SM |
| SM4-180000 | 0* 04AUG99A | 07OCT99A | 100 | ⊟ Demobilization - SM |
| SM4-140100 | 0* 12AUG99A | 05OCT99A | 100 | BOR1 Support to Misc. So. Tier Soils Pro - SM |
| SM4-185000 | 0 | 30SEP99A | 100 | ** <<<< <imp. deadline="" finish="">>>>> - SM</imp.> |
| SM4-131000 | 0* 13SEP04A | 03DEC04A | 100 | Excav./ B/F Deep Acute Soil - Misc. South. Tier |
| SM4-130980 | 0* 29NOV04A | 21DEC04A | 100 | II Revegetate Area of Deep Acute Soil - SM |
| SM4-INF2 | 0* 13SEP04A | 21DEC04A | 100 | Excav./ B/F Deep Acute Soil - Misc. South. Tier |
| SM4-326000 | 0* 06JAN06A | 21JUL06A | 100 | MSTS Mobilization - SCL |
| SM4-430300 | 0* 27APR06A | 12JUL06A | 100 | MSTS Haul Road Widening - SCL |
| SM4-305200 | 0* 29MAR06A | 26APR06A | 100 | MSTS Consolidate HHE in HWL - SCL |
| SM4-422000 | 0* 12APR06A | 15JUN06A | 100 | MSTS Consolidate HHE to ELF - SCL |
| SM4-421000 | 0* 18APR06A | 21JUL06A | 100 | MSTS Consolidate Biota - SCL |
| SM4-306000 | 0* 06JUN06A | 18AUG06A | 100 | MSTS Backfill - SCL |
| SM4-500000 | 0* 29MAR06A | 18AUG06A | 100 | Borrow Area 3 Support of MSTS - SCL |

| Activity ID | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|------------------|---------------------------------------|----------|--------|---|
| Remediation Acti | | | | |
| SM4-169000 | 0* 21NOV06A | 22NOV06A | 100 | l Demobilization - Remediation SCL - Misc |
| SM4-INF3 | 0* 06JAN06A | 22NOV06A | 100 | MST Soil Remediation - Sand Creek Lateral |
| SM4-200000 | 0* 22DEC98A | 22NOV06A | 100 | Project Support - Misc. ST Soils |
| SM4-INF | 0* 22DEC98A | 22NOV06A | 100 | Misc. Southern Tier Soil Remediation |
| Construction Cor | mpletion Report | | | |
| SM6-190000 | 0 08OCT99A | 12NOV99A | 100 | Prep Construction Cmplt Report (CCR) - SM |
| SM6-190010 | 0 12NOV99A | 14DEC99A | 100 | Regulator/ Committee Review CCR - SM |
| SM6-190020 | 0 15DEC99A | 13FEB00A | 100 | Incorp/Respond to Comments/Issue Draft CCR - SM |
| SM6-190030 | 0 14FEB00A | 14JUL00A | 100 | EPA - State Prepare & Issue Accept Ltr CCR - SM |
| SM6-190040 | promised of O and a constraint of the | 14JUL00A | 100 | Project Complete - Misc South Tier Soil Rem |
| SM6-130500 | 0 13JUN05A | 22JUN05A | 100 | I CCR Addendum Deep Acute |
| SM6-100000 | 0 21AUG06A | 15FEB07A | 100 | Prep Construction Cmplt Report (CCR) - S |
| SM6-100010 | 0 16FEB07A | 09APR07A | 100 | Regulator/Committee Review CCR - So |
| SM6-100020 | 0* 10APR07A | 19JUN08A | 100 | Incorporate Comments & Resubmit CC |
| SM6-210031 | 0* 19JUN08A | 02SEP08A | 100 | EPA-State Prep & Issue Accept Ltr CC |
| SM6-INF1 | 0* 21AUG06A | 02SEP08A | 100 | Const Cplt Rprt (CCR) Process- SCL (MST |
| SM6-100040 | 0 | 02SEP08A | 100 | Project Complete/O&F SC |
| SM6-INF | 0* 080CT99A | 02SEP08A | 100 | Const Cplt Rprt (CCR) Process-SM |

| | Dur | | Comp | FY97 FY98 | FY99 FY00 FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|--------------------|--|-------------------------------------|-------------------------------|------------------|--|--|
| | Plume Extr System | | | | | |
| Remedial Design | necesympologic constant properties | Salam synthysing aktiviti samphilis | | | | |
| BD2-120000 | 0 24FEB97A | 15JUL97A | 100 | | e Design Scope of Work - BDRS | |
| BD2-122000 | O | 18APR97A | 100 | a <<<< Design | Scope Deadline >>>>- BDRS | |
| BD2-125000 | 0 21APR97A | 21MAY97A | 100 | Regulator / RM | MA Committee Review - BDRS | |
| BD2-130000 | 0 16JUL97A | 17OCT97A | 100 | Prepare 30% | 6 (Conceptual) Design - BDRS | |
| BD2-150000 | 0 17OCT97A | 17OCT97A | 100 | l Prepare 6 | 0% Design - BDRS (submission waived) | |
| BD2-160000 | 0 17OCT97A | 17OCT97A | 100 | l Regulator | / Committee Review - BDRS (NA) | |
| BD2-140000 | 0 18OCT97A | 17NOV97A | 100 | Regulator | / Committee Rev. & Public Input - BDRS | |
| BD2-170000 | 0 200CT97A | 02NOV98A | 100 | Prepare 9 | 5% (Draft Final) Design - BDRS | |
| BD2-175000 | O state to the state of the sta | 02NOV98A | 100 | | <<<< <design deadline="">>>>> - BDRS</design> | |
| BD2-180000 | 0 03NOV98A | 04DEC98A | 100 | - | Regulator / Committee Review - BDRS | |
| BD2-190000 | 0 07DEC98A | 10MAR99A | 100 | | Prepare 100% Design - BDRS | |
| BD2-190050 | 0* 26OCT04A | 29JUN05A | 100 | | | Bedrock Ridge DCN Proc (thru Regulator Approval) |
| BD2-191000 | 0* 22DEC05A | 08JUN06A | 100 | | | Prep/Rev & Appr ESD for Bedrock Ridge Extr Sys |
| BD2-INF | 0* 24FEB97A | 08JUN06A | 100 | Sect 36 Bedroc | k Ridge GW Extraction Design (RVO) | |
| Remediation Activi | | SS. ∕ | luce a consider of section of | | | |
| BD4-125000 | 0 19MAY99A | | 100 | | <pre> <<<<<imp. deadline="" start="">>>>>> - BD </imp.></pre> | DRS . |
| BD4-120000 | 0* 19MAY99A | 17DEC99A | 100 | | Mobilization - BDRS | |
| BD4-150000 | 0* 19JUL99A | 22FEB00A | 100 | | Piping Installation and Well Completion | |

| i di | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 F |
|------------------------------------|--|----------|----------------|--|
| Remediation Activiti BD4-125010 | es 0* 13AUG99A | 17DEC99A | 100 | Well Installation |
| BD4-250000 | 0* 23FEB00A | 25FEB00A | 100 | I Demobilization - BDRS |
| BD4-255000 | 0 | 25FEB00A | 100 | ∝ <<<< <imp. deadline="" finish="">>>>>>> - BDRS</imp.> |
| BD4-400000 | 0* 08NOV04A | 05AUG05A | 100 | Implem of Bedrock Ridge DCN for Sys Enhancements |
| BD4-270000 | 0* 19MAY99A | 05AUG05A | 100 | Project Support - Section 36 Bedrock |
| BD4-INF | 0* 19MAY99A | 05AUG05A | 100 | Sect. 36 Bedrock Ridge GW Extraction System(RVO) |
| Construction Compl | Commence of States Commence of the States of | * | Harana da sana | na . |
| BD6-260000 | 0 26FEB00A | 28APR00A | 100 | Prep Preliminary Const Cmplt Report (CCR) - BDRS |
| BD6-260025 | 0 03MAR00A | 02MAR01A | 100 | Operational Verification of System Performance |
| BD6-260010 | 0 29APR00A | 30MAY00A | 100 | Regulator/ Committee Review CCR - BDRS |
| BD6-260020 | 0 31MAY00A | 28SEP00A | 100 | Incorp/Respond to Comments/Issue Prelim CCR-BDRS |
| BD6-260026 | 0 05MAR01A | 01MAY01A | 100 | Redevelopment of Bedrock Ridge Wells |
| BD6-260027 | 0 02MAY01A | 20DEC01A | 100 | Bedrock Ridge Water Table Evaluations |
| BD6-260028 | 0 04FEB02A | 19FEB02A | 100 | l Redevelopment of Bedrock Ridge Wells |
| BD6-260029 | 0 18MAR02A | 21MAR02A | 100 | l Redevelopment of Extraction Well #2 - (4th time) |
| BD6-260040 | 0 22MAR02A | 28FEB03A | 100 | Bedrock Ridge Water Table Evaluations |
| BD6-260030 | 0 04JUN02A | 18SEP02A | 100 | Procure Equipment/Re-Construct Redevelopment Rig |
| BD6-260035 | 0 24SEP02A | 110CT02A | 100 | Redevelopment of Extraction Well #2 - (5th Time) |

| Activity ID | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
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| Construction Com | pletion Report | <u> </u> | • 511111 | | |
| BD6-260120 | 0 14MAR07A | 31MAY07A | 100 | | Reg/Committee Rev interim CCR - BDRS (© |
| BD6-260122 | 0 01JUN07A | 05JUN08A | 100 | | Prep/iss Revsd Interim (Electronic) CCR-BDRS |
| BD6-260124 | 0 06JUN08A | 07JUL08A | 100 | | E Agency Rev Revsd interim CCR (Electronic) |
| BD6-260126 | 0 08JUL08A | 23SEP08A | 100 | | Prep/iss Revsd Draft Final CCR-BDRS Constr |
| BD6-260140 | 0 24SEP08A | 30SEP08A | 100 | | I EPA-State Issue Accpt Ltr Interim CCR-BDRS- |
| BD6-260150 | 0 | 30SEP08A | 100 | | Project Compl-Section 36 Bedrock |
| BD6-INF | 0* 26FEB00A | 30SEP08A | 100 | Const Cplt Rprt (CCR) Process-BDRS | |
| outh Plants Struc | ture Demolition and | Removal | | | |
| Remedial Design | | | | | BELLET LUBER V. BETTER 18. "PP 1900 DECOMPTENDE COMME COM CONTROL CONTROL CONTROL CONTROL OF COMME CONTROL CON |
| SS2-120000 | 0 28AUG97A | 12FEB98A | 100 | Prepare / Revise Design Scope of Work - SPST | |
| SS2-INF | 0* 28AUG97A | 04OCT99A | 100 | S. Plants Structures Demo Design | |
| SS2-122000 | 0 | 20OCT97A | 100 | <pre> « <<<< DesignScope Deadline >>>> SPST </pre> | |
| SS2-125000 | 0 210CT97A | 20NOV97A | 100 | Regulator / RMA Committee Review - SPST | |
| SS2-130000 | 0 21NOV97A | 27MAR98A | 100 | Prepare 30% (Conceptual) Design - SPST | |
| SS2-140000 | 0 28MAR98A | 01MAY98A | 100 | Regulator / Committee Rev. & Public Input - SPST | |
| SS2-150000 | 0 30MAR98A | 09JUN98A | 100 | Prepare 60% Design - SPST | |
| SS2-170000 | 0 13MAY98A | 14AUG98A | 100 | Prepare 95% (Draft Final) Design - SPST | SCHOOL STATE OF THE STATE OF TH |
| SS2-160000 | 0 10JUN98A | 10JUL98A | 100 | Regulator / Committee Review - SPST | |
| SS2-180000 | 0 14AUG98A ··· | 17SEP98A | 100 | Regulator / Committee Review - SPST | |

| | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|--------------------|---------------|----------|---------------------|--|
| Remedial Design | | | | |
| SS2-175000 | O Comment | 14AUG98A | 100 | <<<<>Design Deadline>>>>> - SPST |
| SS2-190000 | 0 18SEP98A | 19OCT98A | 100 | Prepare 100% Design - SPST |
| SS2-196001 | 0 200CT98A | 30APR99A | 100 | Prepare 95% Design - SPST Agent Package #5 |
| SS2-196032 | 0 01MAY99A | 28MAY99A | 100 | Regulator Review - SPST Agent Pkg #5 |
| SS2-196033 | 01JUN99A | 04OCT99A | 100 | Prepare 100% Design - SPST Agent Pkg #5 |
| Remediation Activi | ties | | Paragrama sarahan i | |
| SS4-106000 | 0 22NOV98A | | 100 | ্য <<<< <imp. deadline="" start="">>>>> - SPST</imp.> |
| SS4-105000 | 0 22NOV98A | 16AUG99A | 100 | Mobilization - SPST |
| SS4-170000 | 0* 22NOV98A | 30MAY01A | 100 | Project Support - South Plants Structure Demo |
| SS4-INF | 0* 22NOV98A | 30MAY01A | 100 | South Plants Structure Demolition |
| SS4-115000 | 0 01MAR99A | 23APR01A | 100 | Nonagent Structures Demolition - SPST |
| SS4-110000 | 0 01MAR99A | 30MAY01A | 100 | Nonagent Dust and Safety Sampling - SPST |
| SS4-120000 | 0 01MAR99A | 30MAY01A | 100 | Landfill Sig' Contam' Non-agt Mat'l SPST |
| SS4-125000 | 0 01MAR99A | 30MAY01A | 100 | Consolidate Other Nonagent Material - SPST |
| SS4-130000 | 0* 24APR00A | 17AUG00A | 100 | Agent Air Monitoring - SPST |
| SS4-135000 | 0* 24APR00A | 17AUG00A | 100 | Agent Structures Demolition - SPST |
| SS4-145000 | 0* 24APR00A | 17AUG00A | 100 | Landfill Agent Demolition Material - SPST |
| SS4-140000 | 0 17AUG00A | 17AUG00A | 100 | Agent Caustic Treatment - SPST |
| SS4-160000 | 0 30APR01A | 30MAY01A | 100 | Demobilization - SPST |

| Activity ID | Rem Start | Finish | % – Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
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| Remediation Activ | ities | | | |
| SS4-161000 | 0 | 30MAY01A | 100 | <<<< <imp. deadline="" finish="">>>>> - SPST</imp.> |
| Construction Com | pletion Report | | | |
| SS6-165000 | 0 01MAY00A | 12JUL00A | 100 | Prep Constr Cmplt Report (CCR) - SPST - PH I |
| SS6-INF1 | 0* 01MAY00A | 29SEP00A | 100 | Const Cplt Rprt (CCR) Process-SPST |
| SS6-165010 | 0 12JUL00A | 17AUG00A | 100 | Regulator/ Committee Review CCR - SPST - PH I |
| SS6-165020 | 0 18AUG00A | 08SEP00A | 100 | Inc/Resp Comms/Iss Draft CCR-SPST - PH I |
| SS6-165030 | 0 11SEP00A | 29SEP00A | 100 | € EPA-State Prep & Iss Accept Ltr CCR-SPST - PH I |
| SS6-165040 | O Charles | 29SEP00A | 100 | Project Complete - S P Structure Demo - PH I |
| SS6-165001 | 0 31MAY01A | 18DEC01A | 100 | Prep Constr Cmplt Report (CCR) - SPST - PH II |
| SS6-INF2 | 0* 31MAY01A | 02JUL02A | 100 | Const Cplt Rprt (CCR) Process-SPST |
| SS6-165011 | 0 20DEC01A | 25JAN02A | 100 | Regulator/ Committee Review CCR - SPST - PH II |
| SS6-165021 | 0 26JAN02A | 18APR02A | 100 | Inc/Resp to Comms/Iss Draft CCR-SPST - PH II |
| SS6-165031 | 0* 19APR02A | 02JUL02A | 100 | EPA-State Prep & Iss Accept Ltr CCR-SPST - PH II |
| SS6-165041 | 0 | 02JUL02A | 100 | Project Complete - S P Structure Demo - PH II |
| SS6-INF | 0* 01MAY00A | 02JUL02A | 100 | Const Cplt Rprt (CCR) Process-SPST |
| | IA Structure Demoliti | on & Removal | | |
| Remedial Design MS2-120000 | 0 02NOV98A | 03FEB99A | 100 | Prepare / Revise Design Scope of Work - MIST |
| MS2-125000 | 0 13NOV98A | 08JAN99A | 100 | Regulator / RMA Committee Review - MIST |
| MS2-122000 | 0 | 13NOV98A | 100 | <pre><a> </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <p< td=""></p<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre> |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
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| Remedial Design | | ar þeggmunngarar í einkjeinistars | | |
| MS2-130000 | 0 11JAN99A | 22FEB99A | 100 | Prepare 30% (Conceptual) Design - MIST |
| MS2-140000 | 0 23FEB99A | 25MAR99A | 100 | Regulator / RMA Committee Review - MIST |
| MS2-150000 | 0 23FEB99A | 02AUG99A | 100 | Prepare 60% Design - MIST |
| MS2-160000 | 0 03AUG99A | 03SEP99A | 100 | Regulator / RMA Committee Review - MIST |
| MS2-170000 | 0 03AUG99A | 02NOV99A | 100 | Prepare 95% (Draft Final) Design - MIST |
| MS2-175000 | 0 | 02NOV99A | 100 | <<<<>Design Deadline>>>>> - MIST |
| MS2-180000 | 0 03NOV99A | 03DEC99A | 100 | Regulator / RMA Committee Review - MIST |
| MS2-190000 | 0 06DEC99A | 24JAN00A | 100 | Prepare 100% Design - MIST |
| MS2-INF1 | 0* 02NOV98A | 04JUN04A | 100 | Misc. Structure Demo Design |
| MS2-190600 | 0* 29APR03A | 14JUL03A | 100 | Phase II Design Revisions - MIST |
| MS2-190700 | 0* 14JUL03A | 14AUG03A | 100 | Regulator Review Phase II Design Revisions MIST |
| MS2-192500 | 0* 19APR04A | 04JUN04A | 100 | Debris Pile DCN |
| MS2-INF2 | 0* 15NOV06A | 06SEP07A | 100 | MSD Sec 25 ACM DCN & Plan Process - MIS |
| MS2-INF | 0* 02NOV98A | 01NOV07A | 100 | Misc. Structures Demo Design & DCNs |
| MS2-161600 | 0* 08AUG07A | 01NOV07A | 100 | MSD DCN Phase III - MIST |
| Remediation Activi | | raturalistis see see see see see see see see see s | | |
| MS4-106000 | 0 24FEB00A | | 100 | <pre></pre> <pre>Start Deadline>>>>> - MIST</pre> |
| MS4-105000 | 0 24FEB00A | 24APR00A | 100 | Mobilization - PH i - MIST |
| MS4-135000 | 0* 24APR00A | 15DEC00A | 100 | Remaining Nonagent Structures Demo - PH I - MIST |

| - | Rem Start | Finish | % FY97 | FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
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| Remediation Activit | ties | | | |
| MS4-155000 | 0* 26APR00A | 14JUL00A | 100 | Remaining Agent Structures Demo - PH I - MIST |
| MS4-150000 | 0* 01MAY00A | 04DEC00A | 100 | BOR1Support to Misc. Structures Phase I - MIST |
| MS4-170000 | 0 01MAY00A | 04DEC00A | 100 | Backfill Demolished Areas - PH I - MIST |
| MS4-140000 | 0* 28AUG00A | 21DEC00A | 100 | NP Drum Disposal |
| MS4-180000 | 0 06NOV00A | 19DEC00A | 100 | Demobilization - PH I - MIST |
| MS4-INF1 | 0* 24FEB00A | 23MÁY02A | 100 | Misc. RMA Structures - Phase I |
| MS4-135550 | 0* 06MAR02A | 23MAY02A | 100 | B809 Irondale Structure Demo - PH I - MIST |
| MS4-107000 | 0* 18AUG03A | 28OCT03A | 100 | Mobilization - PH II - MIST |
| MS4-116000 | 0* 29SEP03A | 21JAN04A | 100 | MP/RY Structures Demolition - PH II - MIST |
| MS4-136000 | 0* 29SEP03A | 21JAN04A | 100 | Remaining Nonagent Structures Demo - PH II MIST |
| MS4-156000 | 0* 16OCT03A | 23JAN04A | 100 | Remaining Agent Structures Demo - PH II - MIST |
| MS4-170100 | 0* 16OCT03A | 23JAN04A | 100 | BOR5 Support to Misc Structures Phase II - MIST |
| MS4-171000 | 0* 16OCT03A | 23JAN04A | 100 | Backfill Demolished Areas - PH II - MIST |
| MS4-182000 | 0* 30JAN04A | 03FEB04A | 100 | Demobilization - PH II - MIST |
| MS4-171500 | 0* 25NOV03A | 04JUN04A | 100 | Revegetation Demolished Areas - PH II - MIST |
| MS4-204000 | 0* 03SEP04A | 10SEP04A | 100 | l Misc. Debris Piles / Housekeeping - Mobilization |
| MS4-136510 | 0* 03SEP04A | 29OCT04A | 100 | □ Misc. Debris Piles - Remove/ Housekeeping |
| MS4-INF2 | 0* 18AUG03A | 29OCT04A | 100 | Misc. RMA Structures - Phase II |

| 04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 | FY00 FY01 FY02 FY03 FY04 | % FY97 FY | Finish | m Start r | Activity ID |
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| | | | | | Remediation Activi |
| Misc. Debris Piles - Demobilization | | 100 | 290CT04A | 0* 280CT04A | MS4-130555 |
| Demolition of Building 143 - With SCL Remed. | | 100 | 18MAR06A | 0* 18MAR06A | MS4-314000 |
| Sec. 25 ACM Debris Removal - MI | | 100 | 18DEC07A | 0* 21SEP07A | MS4-145100 |
| Phase III ACM Abatement - Phase II | | 100 | 26JUN08A | 0* 08JAN08A | MS4-100312 |
| Mobilization - Phase III Demo - | | 100 | 14APR08A | 0* 29FEB08A | MS4-108000 |
| Rmg Nonagnt Structure Demo - Phase III | | 100 | 22DEC08A | 0* 07APR08A | MS4-137000 |
| Consolidate Rmg Nonagnt Mat'l to Basin A | | 100 | 31JUL08A | 0* 17APR08A | MS4-145000 |
| DSR-Misc Structures Demo & Rmvl Ph III Sec2 | | 100 | 07MAY09A | 0* 25AUG08A | MS4-350090 |
| Pre-Final Inspection - Phase III | | 100 | 18SEP08A | 0 18SEP08A | MS4-340024 |
| Pre-Final Inspect - Struc. 628 - Phase III | | 100 | 07MAY09A | 0 07MAY09A | MS4-340026 |
| l Revegetate Demolished Areas - Phase III | | 100 | 06NOV08A | 0 30OCT08A | MS4-172500 |
| Prepare DCN-MSD3-022 and Obtain Agency Ap | | 100 | 29JUL09A | 0 02MAR09A | MS4-340030 |
| Final Inspection - Phase III | | 100 | 13AUG09A | 0 13AUG09A | MS4-340025 |
| FIELD-Misc Structures Demo & Removal | | 100 | 13AUG09A | 0* 29FEB08A | MS4-INF3 |
| URS - D&D of CERCLA WTP Process Equ | | 100 | 31AUG10A | . 0* 28SEP09A | MS4-117200 |
| CERCLA WTP Demo DCN/Procu | | 100 | | 0 09MAR10A | MS4-117150 |
| Submittals for CERCLA WTP Der | | 100 | 20AUG10A | 0 15JUL10A | MS4-117300 |
| Demo CERCLA WTP (Offsite Dis | | 100 | 03NOV10A | 0 01SEP10A | MS4-117100 |

| FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 | FY98 FY99 FY00 FY01 FY02 FY03 FY0 | % Comp | Finish | Start | Activity Rei |
|---|--------------------------------------|--------|-------------------------------|------------|----------------------|
| | | | | | mediation Activities |
| Revegetation of Former W | | 100 | 12NOV10A | 04NOV10A | 54-117400 |
| Final Inspection - Demo CERCL | | 100 | 19NOV10A | 0 | 640117110 |
| Former SQI Fdn Demo -MIST Phase IV (Added | | 100 | 18JAN11A | * 15NOV10A | 64-117160 |
| 留 <<<< <imp. deadline="" finish="">>>>>>></imp.> | | 100 | 18JAN11A |) | 64-183500 |
| FIELD-Misc Struct Demo&Rmvl-PhIV-CERCLA WT | | 100 | 18JAN11A | * 09MAR10A | 64-INF4 |
| ture Demo | Project Support - Misc RMA Structure | 100 | 18JAN11A | * 24FEB00A | 64-200000 |
| & Removal | Misc. RMA Structures Demolition & Re | 100 | 18JAN11A | * 24FEB00A | 64-INF |
| | | | a paus variation and a second | Report | onstruction Complet |
| leport (CCR) - MIST | Prep Construction Cmplt Repo | 100 | 16FEB01A | 18DEC00A | 56-185001 |
| n Cmplt Report (CCR) - MIST | Complete Construction Cn | 100 | 04SEP01A | 0 18JUN01A | S6-185051. |
| cess - PH I | Const Cplt Rprt (CCR) Process | 100 | 30SEP02A | * 18DEC00A | S6-INF1 |
| ee Review CCR - MIST | Regulator/ Committee R | 100 | 14NOV01A | 05SEP01A | S6-185011 |
| Comments/Issue Draft CCR -MIST | Incorp/Respond to Cor | 100 | 23MAY02A | 15NOV01A | S6-185021 |
| Prepare & Issue Accept Ltr CCR-MIST | EPA - State Prepa | 100 | 30SEP02A | 24MAY02A | S6-185031 |
| mplete - Misc RMA Structs Demo - PH I | ® Project Comple | 100 | 30SEP02A | 2 | S6-185041 |
| Prep Construction Cmplt Report (CCR) - MIST | | 100 | 20APR05A | * 01FEB05A | S6-185002 |
| Const Cplt Rprt (CCR) Process - MSD PH II | | 100 | 30MAR06A | * 01FEB05A | S6-INF2 |
| Regulator/ Committee Review CCR - MIST | | 100 | 19MAY05A | * 21APR05A | S6-185012 |
| Incorp/Respond to Comments/Issue Draft CCR -MIST | | 100 | 21JUN05A | 20MAY05A | S6-185022 |

| | em Start Dur | Finish | % - | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|------------------------|--|----------|-----------------------|--|
| Construction Comple | etion Report | | | |
| MS6-185032 | 0 21JUN05A | 30MAR06A | 100 | EPA - State Prepare & Issue Accept Ltr CCR-MIST |
| MS6-185042 | 0 | 30MAR06A | 100 | Project Complete - Misc RMA Structs Demo - PH |
| MS6-185003 | 0* 01AUG08A | 21OCT08A | 100 | Prep Const Cmplt Report (CCR) - Phase III |
| MS6-INF3 | 0* 01AUG08A | 08DEC09A | 100 | CCR - Misc Structures Demo & Removal Pha |
| MS6-185013 | 0 21OCT08A | 20NOV08A | 100 | Regulator/Committee Review CCR - MSI |
| MS6-185023 | 0* 21NOV08A | 05NOV09A | 100 | Incorp Comments and Resubmit CCR - PH III |
| MS6-185033 | 0 06NOV09A | 08DEC09A | 100 | EPA/State Issue Accpt Ltr CCR - MSI |
| MS6-185043 | o de la companya de l | 08DEC09A | 100 | Project Complete - Phase III Structures |
| MS6-117110 | 0 010CT10A | 20JAN11A | 100 | Prep CCR for Agency Review - CERCLA |
| MS6-INF5 | 0* 010CT10A | 13JUL11A | 100 | CCR-Misc Struct Demo&Rmvl PhIV-CERCLA WTP I |
| MS6-117120 | 0 21JAN11A | 21FEB11A | 100 | Regulator/Committee Review CCR - CERCLA |
| MS6-117130 | 0* 22FEB11A | 21APR11A | 100 | Incorp. Comments/Iss. Draft CCR - CER |
| MS6-117140 | 0 22APR11A | 13JUL11A | 100 | EPA/State Issue Accept Ltr CCR - CER |
| MS6-177145 | 0 | 13JUL11A | 100 | Project Complete - Phase IV CERCLA |
| MS6-INF | 0* 18DEC00A | 13JUL11A | 100 | Const Cplt Rprt (CCR) Process - MIST |
| nase II - South Plan | nts Area | | | tente la la companya de la companya |
| Buried M-1 Pits Soil F | AND THE RESERVE OF THE PERSON | | | |
| Predesign Activities | | | POTON CHANNEL BRITARY | |
| M11-100000 | 0* 16DEC98A | 12APR00A | 100 | PMC - M1 Pits Treatability Study |
| M11-INF | 0* 16DEC98A | 12APR00A | 100 | Treatability Study - M1P |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|-------------------|------------------|----------|--------|--|
| Remedial Design | | | | |
| M12-120000 | 0* 03JAN00A | 14APR00A | 100 | Prepare / Revise Design Scope of Work - M1P |
| M12-122000 | 0 | 17MAR00A | 100 | < DesignScope Deadline >>>>- M1P |
| M12-INF | 0* 03JAN00A | 25JAN01A | 100 | Buried M-1 Pit Design |
| M12-125000 | 0 17MAR00A | 10APR00A | 100 | Regulator / RMA Committee Review - M1P |
| M12-130000 | 0 18APR00A | 28JUN00A | 100 | Prepare 30% (Conceptual) Design - M1P |
| M12-140000 | 0 29JUN00A | 28JUL00A | 100 | Regulator / Committee Rev. & Public Input - M1P |
| M12-170000 | 0 28JUL00A | 18OCT00A | 100 | Prepare 95% (Draft Final) Design - M1P |
| M12-180000 | 0 180CT00A | 17NOV00A | 100 | □ Regulator / Committee Review - M1P |
| M12-175000 | 0 (3) | 18OCT00A | 100 | ≅ <<< <cdesign deadline="">>>>> - M1P</cdesign> |
| M12-190000 | 0 01NOV00A | 25JAN01A | 100 | Prepare 100% Design - M1P |
| Remediation Activ | vities | | | |
| M14-125000 | 0 01FEB01A | | 100 | >>>>>>>>> - M1P |
| M14-120000 | 0* 09FEB01A | 15JUN01A | 100 | Mobilization - M1P |
| M14-145000 | 0* 17MAY01A | 15JUN01A | 100 | M-1 Pit Pre-Production Test - M1P |
| M14-140000 | 0* 19JUN01A | 16OCT01A | 100 | M-1 Pit Excavation w/Vapor Controls - M1P |
| M14-150000 | 0* 19JUN01A | 16OCT01A | 100 | Caustic Wash of Agent Soil (if necessary) - M1P |
| M14-170000 | 0* 19JUN01A | 16OCT01A | 100 | Landfill Treated Material - M1P |
| M14-160000 | 0* 19JUN01A | 16OCT01A | 100 | Solidify M-1 Pit Material - M1P |
| M14-180000 | 0* 11JUL01A | 240CT01A | 100 | Backfill w/ Borrow Material - M1P |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 | FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
|---------------------|----------------|------------------------------------|---|------------------------------|---|
| Remediation Activi | ties | | | | |
| M14-220000 | 0* 09FEB01A | 01NOV01A | 100 | | Project Support - Buried M-1 Pit Soil Rem |
| M14-INF | 0* 09FEB01A | 01NOV01A | 100 | | Buried M-1 Pits Remediation |
| M14-200000 | 0* 21SEP01A | 01NOV01A | 100 | | ☐ Demobilization - M1P |
| M14-140100 | 0* 26SEP01A | 250CT01A | 100 | | BOR3 Support to Buried M-1 Pits Soils - M1P |
| M14-205000 | 0 8 8 | 01NOV01A | 100 | | ≅ <<< Finish Deadline>>>>> - M1P |
| Construction Comp | oletion Report | | *************************************** | | |
| M16-210000 | 0 02NOV01A | 31DEC01A | 100 | | Prep Construction Cmplt Report (CCR) - M1P |
| M16-INF | 0* 02NOV01A | 18JUL02A | 100 | | Const Cplt Rprt (CCR) Process-M1P |
| M16-210010 | 0 02JAN02A | 01FEB02A | 100 | | Regulator/ Committee Review CCR - M1P |
| M16-210020 | 0 01FEB02A | 01MAR02A | 100 | | Incorp/Respond to Comments/Issue Final CCR -M1P |
| M16-210030 | 0 04MAR02A | 18JUL02A | 100 | | EPA - State Prepare & Issue Accept Ltr CCR -M1P |
| M16-210040 | 0 | 18JUL02A | 100 | | Project Complete - M1 Pit Soil Remediation |
| lex Pit Soil Remed | liation | | | | orang is a filika i madin alik sipari in ijing mat is ilikun is alikun ang mat in iliganga. |
| Predesign Activitie | s | SAN DIEKONOMIANA PROGRAMANIO II II | Zabanian isani aasa | | |
| HX1-110000 | 0 09SEP96A | 13JUN97A | 100 | Pre-remediation Studies | |
| HX1-INF1 | 0* 09SEP96A | 06MAR00A | 100 | Hex Pit - Thermal Tech. Eval | |
| HX1-120000 | 0 16JUN97A | 16FEB98A | 100 | Field Investigation | |
| HX1-125000 | 0 02SEP97A | 30SEP98A | 100 | Thermal Technology | y Evaluation |
| HX1-130000 | 0* 01MAR99A | 06MAR00A | 100 | Hex Pi | it Treatability Study |
| HX1-150000 | 0* 24JUN02A | 06NOV02A | 100 | | Hex Pit Compatibility Study |

| Activity ID | Dur | | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|---------------------|-------------|----------|-----------|---|
| Predesign Activitie | es | | | |
| HX1-140000 | 0* 24JUN02A | 17APR03A | 100 | Hex Pit ROD Amendment |
| HX1-INF2 | 0* 24JUN02A | 17APR03A | 100 | Hex Pit Leachate Production Study/ROD Amendment |
| HX1-INF | 0* 09SEP96A | 17APR03A | 100 | Hex Pit Treatability Study/ROD Amendment |
| Remedial Design | | | | |
| HX2-120000 | 0 08FEB00A | 22MAR00A | 100 | Prepare / Revise Design Scope of Work - HEXP |
| HX2-INF1 | 0* 08FEB00A | 20MAR01A | 100 | Hex Pit Design (ISTD) |
| HX2-125000 | 0 16FEB00A | 01MAR00A | 100 | Regulator / RMA Committee Review - HEXP |
| HX2-122000 | 0 | 16FEB00A | 100 | <> Comparison of the compar |
| HX2-130000 | 0* 22FEB00A | 25APR00A | 100 | Prepare 30% (Conceptual) Design - HEXP |
| -IX2-150000 | 0 26APR00A | 25APR00A | 100 | Prepare 60% Design (waived) - HEXP |
| ∃X2-160000 | 0 26APR00A | 25APR00A | 100 | Regulator / Committee Review (waived) - HEXP |
| HX2-140000 | 0 26APR00A | 25MAY00A | 100 | Regulator / Committee Rev. & Public Input - HEXP |
| HX2-170000 | 0 26APR00A | 02AUG00A | 100 | Prepare 95% (Draft Final) Design - HEXP |
| HX2-180000 | 0 02AUG00A | 07SEP00A | 100 | Regulator / Committee Review - HEXP |
| HX2-175000 | 555 0 | 02AUG00A | 100 | a <<<< <design deadline="">>>>> - HEXP</design> |
| HX2-170500 | 0* 27OCT00A | 28DEC00A | 100 | Prepare 95% Design Addendum - HEXP |
| HX2-180500 | 0 29DEC00A | 29JAN01A | 100 | Regulator / Committe Review 95% Addendum - HEXP |
| HX2-190000 | 0* 29DEC00A | 20MAR01A | 100 | Prepare 100% Design - HEXP |
| 1X2-120500 | 0* 240CT02A | 18MAR03A | 100 | Prepare/Revise Design SOW - Hex Pit Redesign |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 F | FY1 |
|-------------------|------------------|----------|-----------|---|---|
| Remedial Design | | | | | 20000 |
| HX2-122200 | 0 | 21MAR03A | 100 | - <<<< DesignScope Deadline >>>>- HEXP | |
| HX2-120520 | 0* 18MAR03A | 04APR03A | 100 | l Regulator/RMA Committee Review -DSOW Redesign | |
| HX2-130500 | 0* 04MAR03A | 02JUN03A | 100 | Prepare 30% Design - Hex Pit Redesign | |
| HX2-140500 | 0* 03JUN03A | 29JUL03A | 100 | Regulator/Committee Rev - 30% Redesign | - |
| HX2-INF2 | 0* 24OCT02A | 30OCT03A | 100 | Hex Pit Redesign (Excavation) | |
| HX2-170510 | 0* 01JUL03A | 26AUG03A | 100 | Prepare 95% Design - Hex Pit Redesign | |
| HX2-150500 | 0* 29JUL03A | 29JUL03A | 100 | Prepare 60% Design - Hex Pit Redesign | |
| HX2-160500 | 0* 29JUL03A | 29JUL03A | 100 | Regulator/Committee Rev - 60% Redesign | |
| HX2-180520 | 0* 26AUG03A | 25SEP03A | 100 | Regulator / Committee Review - 95% Redesign | |
| HX2-175200 | 0 | 26AUG03A | 100 | <-<<<95% Design Deadline>>>>> - HEXP | |
| HX2-190500 | 0* 02SEP03A | 30OCT03A | 100 | Prepare 100% Design - Hex Pit Redesign | |
| HX2-INF | 0* 08FEB00A | 30OCT03A | 100 | Hex Pit Design | |
| Remediation Activ | rities | | | | |
| HX4-125000 | 0 21MAR01A | | 100 | <><< <iimp. deadline="" start="">>>>> - HEXP</iimp.> | |
| HX4-120000 | 0* 22MAR01A | 14FEB02A | 100 | Mobilization - HEXP | |
| HX4-INF1 | 0* 22MAR01A | 27JUN02A | 100 | HEX Pit Thermal Treatment - HEXP | *************************************** |
| HX4-130000 | 0* 310CT01A | 310CT01A | 100 | l Agent Air Monitoring | |
| HX4-140000 | 0* 15FEB02A | 17APR02A | 100 | Hex Pit Treatment - HEXP | |
| HX4-180000 | 0* 18APR02A | 27JUN02A | 100 | Demobilization - HEXP | |

| Activity ID | Rem Start Dur | Finish | % F | /97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
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| Remediation Activi | ties | | 154000000000000000000000000000000000000 | |
| łX4-185000 | 0 | 27JUN02A | 100 | <<<< <imp. deadline="" finish="">>>>> - HEXP</imp.> |
| IX4-125200 | 0 19NOV03A | | 100 | <<<<< mp. Start Deadline>>>>> - HEXP |
| IX4-120200 | 0* 20NOV03A | 01DEC03A | 100 | I Mobilization - HEXP |
| IX4-INF2 | 0* 20NOV03A | 28JAN04A | 100 | Hex Pit Soil Remediation (Excavation) |
| IX4-140200 | 0* 01DEC03A | 31DEC03A | 100 | © Excavate/Transport to HWL - HEXP |
| 1X4-140300 | 0* 01DEC03A | 08JAN04A | 100 | Backfill Excavation - HEXP |
| IX4-180200 | 0* 22JAN04A | 28JAN04A | 100 | l Demobilization - HEXP |
| IX4-185200 | 0 | 28JAN04A | 100 | ** <<<< <imp. deadline="" finish="">>>>> - HEXP</imp.> |
| HX4-200000 | 0* 22MAR01A | 28JAN04A | 100 | Project Support - Hex Pit Soil |
| HX4-INF | 0* 22MAR01A | 28JAN04A | 100 | Hex Pit Soil Remediation |
| Construction Comp | pletion Report | | | |
| IX6-191000 | 0 28JAN04A | 29MAR04A | 100 | Prep Construction Cmplt Report (CCR) - HEXP |
| HX6-INF | 0* 28JAN04A | 21JUL04A | 100 | Const Cplt Rprt (CCR) Process-HEXP |
| IX6-191100 | 0 30MAR04A | 30APR04A | 100 | □ Regulator/ Committee Review CCR - HEXP |
| IX6-191110 | 0 30APR04A | 28MAY04A | 100 | Incorp/Respond to Comments/Issue Final CCR -HEXP |
| IX6-191120 | 0 29MAY04A | 21JUL04A | 100 | EPA - State Prepare & Issue Accept Ltr CCR-HEXP |
| X6-191130 | 0 | 21JUL04A | 100 | Project Complete - Hex Pit Soil Remediation |
| | I Remediation - PH I | I | | |
| Remedial Design | #4490000000000001 | el bygggggggggggggggggggggggggggggggggggg | | |
| C2-120000 | 0 01JUN98A | 16NOV98A | 100 | Prepare / Revise Design Scope of Work - SPCP |

| Activity ID | Rem Start Dur | Finish % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
|----------------|------------------|---------------|--|
| SC2-122000 | .0 | 04SEP98A 100 | <<<< DesignScope Deadline >>>>- SPCP |
| SC2-125000 | 0 05SEP98A | 08OCT98A 100 | Regulator / RMA Committee Review - SPCP |
| SC2-130000 | 0 17NOV98A | 22FEB99A 100 | Prepare 30% (Conceptual) Design - SPCP |
| SC2-140000 | 0 23FEB99A | 23MAR99A 100 | Regulator/Comm Rev. & Public Input - SPCP |
| SC2-150000 | 0 23MAR99A | 26MAY99A 100 | Prepare 60% Design - SPCP |
| SC2-160000 | 0 26MAY99A | 25JUN99A 100 | Regulator/Committee Review - SPCP |
| SC2-170000 | 0* 26MAY99A | 15DEC99A 100 | Prepare 95% (Draft Final) Design PH I - SPCP |
| SC2-180000 | 0 15DEC99A | 16JAN00A 100 | Regulator/Committee Review PH I - SPCP |
| SC2-175000 | 0 | 15DEC99A 100 | < |
| SC2-190000 | 0 17JAN00A | 24MAR00A 100 | Prepare 100% Design PH I - SPCP |
| SC2-170001 | 0* 27MAR00A | 07AUG00A 100 | Prepare 95% (Draft Final) Design PH II - SPCP |
| SC2-175001 | 0 | 07AUG00A 100 | <pre> « <<<<design -="" deadline="" ii="" ph="">>>>>>> - SPCP </design></pre> |
| SC2-180001 | 0 08AUG00A | 02NOV00A 100 | Regulator/Committee Review PH II - SPCP |
| SC2-190101 | 0* 03NOV00A | 05JUN01A 100 | Prepare 100% Design PH II - SPCP |
| SC2-121000 | 0* 28APR03A | 13MAY04A 100 | SP-Prep/Issue/Reg. Approval of DCN - SG |
| SC2-123000 | 0* 13JAN05A | 08JUN06A 100 | Prepare 95% iCSD Design - SP Cover DCN |
| SC2-124000 | 0* 09JUN06A | 29SEP06A 100 | Prepare 100% ICSD Design - SP Cover DC |
| SC2-110000 | 0* 28APR03A | 29SEP06A 100 | South Plants Cover Redesign [ICSD] |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
|-------------------|------------------|----------|-----------|---|
| Remedial Design | | | | |
| SC2-174100 | 0 02JAN07A | 03APR07A | 100 | Prepare/Revise 95% ICS Design - SP |
| SC2-174105 | 0 04APR07A | 03MAY07A | 100 | Reg. Review Revised 95% ICS Design - SP |
| SC2-174110 | 0 30APR07A | 23JUL07A | 100 | Prepare/Revise 100% ICS Design - SP |
| SC2-174112 | 0 25JUL07A | 23AUG07A | 100 | Reg Review Revised 100% ICS Design - Si |
| SC2-121001 | 0* 28APR03A | 23AUG07A | 100 | SP- Prep/Issue/Reg. Approval of DCN - Cover |
| SC2-INF | 0* 01JUN98A | 22APR08A | 100 | South Plants BOA and CPA Design |
| SC2-174113 | 0 24AUG07A | 23OCT07A | 100 | Revise & Submit Final 100% ICS Design - Si |
| SC2-174114 | 0 24OCT07A | 20NOV07A | 100 | Reg. Agencies Review R2 100% ICS Design - Sl |
| SC2-174120 | 0 21NOV07A | 22APR08A | 100 | Prepare DCN & Obtain Agency Approval - SI |
| Remediation Activ | ities | | | |
| SC4-125000 | 0 03DEC01A | | 100 | <><< Start Deadline>>>>> - SPCP |
| SC4-120000 | 0* 03DEC01A | 18MAR02A | 100 | Mobilization - SPCP |
| SC4-155000 | 0* 14MAR02A | 01OCT02A | 100 | Excavate Non-Agent/HH Soil - SPCP |
| SC4-170000 | 0* 14MAR02A | 22JAN03A | 100 | Consolidate Mat Fm SP Bal as Back/Gradefill-SPCP |
| SC4-160000 | 0* 21MAR02A | 01OCT02A | 100 | Landfill Agent/HH Soil - SPCP |
| SC4-140000 | 0* 21MAR02A | 06DEC02A | 100 | Excavate Agent/HH Soil - SPCP |
| SC4-170100 | 0 01MAY02A | 01MAY02A | 100 | l BOR3 Support to SP CPA Soils - Not Required |
| SC4-148000 | 0* 19JUN02A | 30AUG02A | 100 | Excavate / Plug Agent Chemical Sewers - SPCP |
| SC4-158000 | 0* 19JUN02A | 30AUG02A | 100 | Excavate / Plug Non-Agent Chemical Sewers - SPCP |

| | Rem Start Dur | Finish % Com | FY97 FY98 | FY99 FY00 F | FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|----------------------|----------------|-----------------|-----------|--|---------------------------|--|
| Remediation Activiti | | | | | | |
| SC4-230000 | 0* 030CT02A 07 | 'APR03A ' | 00 | | | ıres Demo/Removal - SPCP |
| SC4-200000 | 0* 06NOV02A 28 | SAPR03A | 00 | | Install Gradefill A | fter Consolidation - SPCP (H) |
| SC4-270000 | 0* 28APR03A 02 | 2JUN03A - | 00 | | ≅ Demobilizatio | on . |
| SC4-INF1 | 0* 03DEG01A 02 | 2JUN03A | 00 | | S. Plants Central Process | sing Soil Remed SPÇP |
| SC4-100000 | 0* 13SEP02A 21 | OCT02A | 00 | | BOR11 Support to | South Plants (now to Compl Tr.) |
| SC4-120100 | 0* 28JUN04A 07 | JUL04A . | 00 | | l Mi | obilization for Cap / SG Installation - SG |
| SC4-175000 | 0* 28JUN04A 27 | DEC04A | 00 | THE CONTRACT CONTRACT | S. | Plants Subgrade Construction |
| SC4-INF2 | 0* 28JUN04A 14 | INOV06A | 00 | | | P BOA & CPA Subgrade Construction Phase II |
| SC4-170050 | 0* 30JUN04A 10 | DDEC04A | 00 | | . S. | Plants BOA and CPA Subgrade Construction |
| SC4-260000 | 0* 10DEC04A 27 | rDEC04A | 00 | | | ը Demobilization - SG |
| SC4-420900 | 0* 14AUG06A 20 | SEP06A | 00 | The state of the s | | SP CPA Subgrade Maintenance |
| SC4-421000 | 0* 19SEP06A 31 | OCT06A | 00 | | : | SP CPA Subgrade Temp Reveg |
| SC4-300000 | 0 07JAN08A 18 | SEP08A | 00 | | | SP CPA Wedge (Biota Soil) Subgrade Const |
| SC4-266005 | 0 26MAR08A 19 | SEP08A | 00 | | | Remove Biota Soil - South Pla |
| SC4-300010 | 0 21JAN09A 09 | PFEB09A | 00 | | | । SP CPA Wedge (Remaining) Subgrade Const |
| SC4-300020 | 0 16FEB09A 27 | FEB09A | OO | | | l BBM Placement - SP CPA Wedge (Rem |
| SC4-300030 | 0 18FEB09A 06 | MAR09A | 00 | | | Choke Surface - SP CPA Wedge (Rem |
| SC4-300050 | 0 09MAR09A 24 | IMAR09A | 00 | | | CBL - SP CPA Wedge (Rem |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 F | FY01 FY02 FY03 FY04 FY | FY99 FY00 | FY97 FY98 | % Comp | Finish | m Start ir | - |
|---|------------------------|-----------|--|--------|----------|---------------|---------------------|
| | | | | | | | Remediation Activit |
| I RCRA Soil Placement - SP CPA Wedge (Remain | | | | 100 | 09APR09A | 0 19MAR09A | SC4-300040 |
| CBL/Cover Soil/Perimeter GF - SP CPA We | | | | 100 | 22APR09A | 0 12MAR09A | SC4-240010 |
| Soil Amendments - SP CPA We | | | | 100 | 26MAY09A | 0 19MAY09A | SC4-240120 |
| Perm Reveg & Irrigation Setup - SP CPA We | | | | 100 | 15JUL09A | 0 07JUL09A | SC4-240130 |
| BA10 Support for RCRA Equiv. Cover - SP C | | - v | | 100 | 24OGT08A | 0* 07JAN08A | SC4-243000 |
| □ Subgrade Prep - SP CPA Cover | | - | | 100 | 15FEB08A | 0 31JAN08A | SC4-120101 |
| BBM Placement - SP CPA Cover & Wedge (Pa | | | - | 100 | 22OCT08A | 0 11FEB08A | SC4-180000 |
| Choke Surface - SP CPA Cover & Wedge (Pa | | | | 100 | 24NOV08A | 0 07MAY08A | SC4-202030 |
| © CBL/Cover Soil/Perimeter GF - SP CPA C | | | | 100 | 24OCT08A | 0 10SEP08A | SC4-240000 |
| Prefinal Inspection - SP CPA C | | | : | 100 | 21MAY09A | 0 16OCT08A | SC4-201098 |
| Soil Amendments - SP CPA C | | | even . | 100 | 26MAY09A | 0 03NOV08A | SC4-250110 |
| Perm Revegetation - SP CPA C | | | | 100 | 15JUL09A | 0 10NOV08A | SC4-251010 |
| l Prefinal Inspection Conference | | | | 100 | 23JUL09A | 0 23JUL09A | SC4-201200 |
| Irrigation Setup - SP CPA C | | | | 100 | 24JUL09A | 0 24FEB09A | SC4-250000 |
| Irrigation - SP CPA Cover & Wo | | 4 | | 100 | 12SEP09A | 0 25JUL09A | SC4-626000 |
| Final Inspection - SP CPA C | | | | 100 | 21APR10A | 0 21APR10A | SC4-201099 |
| Subgrade Prep & Construction - SP 3 Ft C | | | · · · · · · · · · · · · · · · · · · · | 100 | 18MAY09A | 0 22SEP08A | SC4-241000 |
| BA 3 Support for 1' B/F & 3' Cover - SP C | | | THE COURT OF STREET, STREET, SEC. ASS. | 100 | 19MAY09A | 0* 22SEP08A | SC4-244000 |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 | FY01 FY02 FY03 FY04 | FY97 FY98 FY99 FY00 | h % — Comp | Finish | Rem Start | Activity ID |
|--|---------------------|---------------------|---------------|----------|-------------|----------------|
| | | | | | tivities | Remediation Ac |
| Cover Soil Placement - SP 3 Ft | | | 9A 100 | 19MAY09A | 0 07OCT08A | SC4-246000 |
| Perm Revegetation - SP 3 Ft | | | A 100 | 25JUL09A | 0 10NOV08A | SC4-251000 |
| Prefinal Inspection - SP 3 Ft | | | A 100 | 02JUL09A | 0 13NOV08A | SC4-201061 |
| Soil Amendments - SP 3 Ft | | | A 100 | 25JUL09A | 0 17NOV08A | SC4-250120 |
| DSR-SouthPlants BOA&CPA Ph II-Add'l Biota | | | 9A 100 | 26MAR09A | 0* 29DEC08A | SC4-266025 |
| Irrigation - SP 3 Ft | | |)A 100 | 12SEP09A | 0 25JUL09A | SC4-201093 |
| ا Pre Final Inspection (Eng. Controls) - SP | | | DA 100 | 04MAR10A | 0 04MAR10A | SC4-626120 |
| Final Inspection - SP 3 Ft | | |)A 100 | 21APR10A | 0 21APR10A | SG4-201191 |
| Transition from 3' Cover to 1' Backt | | | 9A 100 | 27MAR09A | 0 20FEB09A | SC4-201100 |
| Perm Revegetation - SP Transition | | | A 100 | 25JUL09A | 0 20FEB09A | SC4-201110 |
| Irrigation Setup - Army-Maintained | | | A 100 | 24JUL09A | 0 24FEB09A | SC4-201130 |
| l Soil Amendments - SP Transition | | | A 100 | 15JUL09A | 0 11JUL09A | SC4-201120 |
| Soil Amendments - SP 1 Ft B | | | A 100 | 30SEP09A | 0 08AUG09A | SC4-201094 |
| South Plants Middle | | | A 100 | 17JUL09A | 0* 13MAY09A | SC4-201300 |
| South Plants West P | | | 9A 100 | 28AUG09A | 0* 16MAY09A | SC4-201400 |
| Irrigation - Army-Maintained | | | A 100 | 12SEP09A | 0 25JUL09A | SC4-201140 |
| Borrow Area 3 Resto | | | A 100 | 21APR10A | 0 01JUN09A | SC4-201095 |
| FIELD-SP BOA & CPA Ph II - RCRA-Eg Cover | | | A 100 | 12SEP09A | 0* 31JAN08A | SC4-INF3 |

| Activity ID | Rem Start Dur | Finish | % — Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY |
|-------------------|------------------|----------|-------------|---|
| Remediation Activ | rities | | | |
| SC4-270200 | 0* 23JUL09A | 16NOV10A | 100 | CERT REPORT-SP BOA&CPA Ph II-RCRA-Eq Co |
| SC4-218900 | 0 14SEP09A | 02MAR10A | 100 | Construct Engineering Controls - South Pla |
| SC4-626110 | 0 010CT09A | 02MAR10A | 100 | Remove RMA Primary Haul Roads - |
| SC4-260001 | 0* 21APR10A | 30APR10A | 100 | I Demobilization - SP Cov |
| SC4-265000 | 0 | 16NOV10A | 100 | <<< <iimp. deadline="" finish="">>>></iimp.> |
| SC4-INF4 | 0* 31JAN08A | 16NOV10A | 100 | FIELD-SP BOA & CPA-3-Ft Cvr & 1-Ft BF Co |
| SC4-280001 | 0* 03DEC01A | 16NOV10A | 100 | Project Support - SP CPA Subgrade |
| SC4-INF | 0* 03DEC01A | 16NOV10A | 100 | SP BOA & CPA Soil Remediation Phase II |
| Construction Con | saletion Bened | | | |
| SC6-260000 | 0* 05JUN03A | 14AUG03A | 100 | Prepare Draft CCR - South Plant BOA & CPA II |
| SC6-260010 | 0* 15AUG03A | 14NOV03A | 100 | RVO & Regulat.Review Draft CCR - SP BOA & CPA II |
| SC6-260020 | 0* 17NOV03A | 17MAR05A | 100 | Incorp. Reg. Com. Draft CCR - SP BOA & CPA II |
| SC6-260011 | 0* 18MAR05A | 06MAY05A | 100 | RVO & Regulat Review Rev. CCR - SP BOA & CPA II |
| SC6-260021 | 0* 06MAY05A | 22SEP05A | 100 | Incorp. Com Prep. Final CCR - SP BOA & CPA II |
| SC6-269950 | 0 15SEP08A | 02DEC08A | 100 | PMC - Prep Draft CCR Part I - ICS |
| SC6-INF0 | 0* 15SEP08A | 12FEB09A | 100 | CCR Part I Draft - ICS South Pl |
| SC6-269960 | 0 02DEC08A | 12FEB09A | 100 | Agency - Review Draft CCR Part I - ICS |
| SC6-260031 | 0 17DEC08A | 10MAR09A | 100 | Incorporate Biota Soil Removal into 0 |
| SG6-260032 | 0 10MAR09A | 04MAY09A | 100 | Agencies-Review CCR SG & Comments-SPBOA |

| Activity ID | Rem Start Dur | Finish | % | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
|-------------------|-----------------------|----------|-----|---|--|
| Construction Com | pletion Report | | | | |
| SC6-INF1 | O* 05JUN03A | 19JAN10A | 100 | CCR - Soul | th Plants BOA & CPA PhII-Remediation SG |
| SC6-260026 | 0* 05MAY09A | 04NOV09A | 100 | | Incorporate Comments & Resubmit CCR - SPBOA |
| SC6-260030 | 0 06NOV09A | 19JAN10A | 100 | | EPA-State Prep & Iss Accpt Ltr CCR - SP BOA |
| SC6-260040 | ³⁴ 0 | 19JAN10A | 100 | | CCR Complete - SP |
| SC6-INF2 | 0* 15SEP08A | 26JAN11A | 100 | | CCR-South Plants BOA & CPA - ICS RCRA-Eq Co |
| SC6-270000 | 0 01FEB10A | 01APR10A | 100 | | Prep Draft Constr Complt Rep (CCR)-ICS Co |
| SC6-270010 | 0 02APR10A | 13MAY10A | 100 | | Regulator/Committee Review CCR- ICS C |
| SC6-270020 | 0* 14MAY10A | 08SEP10A | 100 | | Incorp/Resp to Comments/Issue Drft CCR-ICS C |
| SC6-270030 | 0 09SEP10A | 26JAN11A | 100 | | EPA-State Prep & Issue Accept Ltr CCR-ICS Co |
| SC6-270040 | 0 | 26JAN11A | 100 | | CCR Complete - ICS Co |
| SC6-INF | 0* 05JUN03A | 26JAN11A | 100 | Const Cplt | Rprt (CCR) Process-SP BOA & CPA |
| Short-Term Monito | oring/Maintenance/Ope | rations | | | |
| SC7-660000 | 0 05OCT09A | 30NOV10A | 100 | | SP Cover - Begin 5 Year Veg Obs & Rpt P |
| SC7-100000 | 0* 08SEP09A | 30NOV10A | 100 | | <<< Short-Term M&M >>>> - SP |
| SP BOA & CPA So | il Remedation - PH I | | | | |
| Remedial Design | | | | | |
| SR2-120000 | 0 01JUN98A | 16NOV98A | 100 | Prepare / Revise Design Scope of Work | Constitution |
| SR2-122000 | 0 | 04SEP98A | 100 | <>>> DesignScope Deadline >>>> SPBA | |
| SR2-125000 | 0 05SEP98A | 08OCT98A | 100 | Regulator / RMA Committee Review - SPBA | |
| SR2-130000 | 0 17NOV98A | 22FEB99A | 100 | Prepare 30% (Conceptual) Design - SPBA | |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|-------------------|------------------|----------|---|--|
| Remedial Design | | | | |
| SR2-140000 | 0 23FEB99A | 23MAR99A | 100 | Regulator / Committee Rev. & Public Input |
| SR2-150000 | 0 23MAR99A | 26MAY99A | 100 | Prepare 60% Design - SPBA |
| SR2-160000 | 0 26MAY99A | 25JUN99A | 100 | Regulator / Committee Review - SPBA |
| SR2-170000 | 0* 26MAY99A | 15DEC99A | 100 | PH I - Prepare 95% (Draft Final) Design - SPBA |
| SR2-180000 | 0 15DEC99A | 16JAN00A | 100 | Regulator/Committee Review - SPBA |
| SR2-175000 | 0 | 15DEC99A | 100 | < Design Deadline>>>>> - SPBA |
| SR2-190000 | 0* 17JAN00A | 24MAR00A | 100 | Prepare 100% Design - SPBA |
| SR2-INF | 0* 01JUN98A | 24MAR00A | 100 | S. Plants Balance of Areas Soil Design |
| Remediation Activ | ities | | *************************************** | |
| SR4-125000 | 0 28FEB00A | | 100 | <>>>> - SPBA |
| SR4-120000 | 0* 28FEB00A | 07JUL00A | 100 | Mobilization - SPBA |
| SR4-160000 | 0 08JUN00A | 31AUG00A | 100 | Excavate Agent - SPBA |
| SR4-153000 | 0* 23JUN00A | 28SEP01A | 100 | Survey Chemical Sewer Line - SPBA |
| SR4-155000 | 0* 23JUN00A | 28SEP01A | 100 | Excavate/Strip Sewer Overburden - SPBA |
| SR4-158000 | 0* 23JUN00A | 28SEP01A | 100 | Excavate Chemical Sewer - SPBA |
| SR4-190000 | 0* 23JUN00A | 120CT01A | 100 | Landfill Agent/HH/Chem Sew - SPBA |
| SR4-200000 | 0* 08AUG00A | 28SEP01A | 100 | Backfill Chem Sewers - SPBA |
| SR4-180000 | 0 31AUG00A | 31AUG00A | 100 | Caustic Wash Agent Soil/Material - SPBA |
| SR4-240000 | 0 03OCT01A | 12OCT01A | 100 | I Demobilization PH I - SPBA |

| Remediation Activities Stat 24500 Stat | | Activity ID | Rem Start | Finish % | /s — | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
|--|---|-------------------|------------------------|------------|---------------------|---|
| Separation | | | | | ···P | |
| Revergation | | | | 120CT01A | 100 | |
| Section Sect | | SR4-230100 | 0 14NOV01A | 13DEC01A | 100 | |
| S. Plants Balance Soil Remediation-PH | | SR4-260000 | 0 28FEB00A | 13DEC01A | 100 | |
| SR6-25000 0 SQC70 A 1 DEC01A 10 Prep Const Cmplt Rpt (CCR) - SPBA - PH | | SR4-INF | 0* 28FEB00A | 13DEC01A | 100 | |
| SR6-250000 | | Construction Co | mpletion Report | | | |
| SPG-IN | | f | | 11DEC01A | 100 | |
| SR6-250020 | | SR6-INF | 0* 15OCT01A | 24SEP02A | 100 | |
| SR6-250024 0° 08FEB02A 02JUL02A 100 Incorp/Resp to Comments/re-Issue Drft CCR SR6-250030 0 03JUL02A 24SEP02A 100 EPA-State Prep & Iss Accept Ltr CCR-SPBA - PH I | | SR6-250010 | 0 12DEC01A | 25JAN02A | 100 | |
| SR6-250030 | | SR6-250020 | 0 26JAN02A | 08FEB02A | 100 | Incorp/Resp to Comments/Issue Drft CCR-SPBA PH I |
| SR6-250040 0 24SEP02A 100 Project Complete - SP Balance of Area - PH I | | SR6-250024 | 0* 08FEB02A | 02JUL02A | 100 | Incorp/Resp to Comments/re-Issue Drft CCR |
| Phase III - Sections 35 & 36 Sites & North Plant Sanitary Sewer Manhole Plugging - Phase II Remedial Design S22-120000 0* 14JAN02A 25JUL02A 100 Prepare/Revise Design Scope of Work - SSW2 S22-INF1 0* 14JAN02A 25JUL02A 100 Phase II San Sewer Design - DSOW S22-122000 0 12FEB02A 100 S22-125000 0 13FEB02A 100 Regulator / RMA Committee Review - SSW2 S22-130000 0 15MAR02A 15MAR02A 100 Prepare 30% (Conceptual) Design - SSW2 | | SR6-250030 | 0 03JUL02A | 24SEP02A | 100 | |
| Sanitary Sewer Manhole Plugging - Phase II Remedial Design S22-120000 0° 14JAN02A 25JUL02A 100 Prepare/Revise Design Scope of Work - SSW2 S22-INF1 0° 14JAN02A 25JUL02A 100 Phase II San Sewer Design - DSOW S22-122000 0° 12FEB02A 100 Conceptual S22-125000 0° 13FEB02A 14MAR02A 100 Regulator / RMA Committee Review - SSW2 S22-130000 0° 15MAR02A 15MAR02A 100 Prepare 30% (Conceptual) Design - SSW2 S22-140000 0° 15MAR02A 15MAR02A 100 Prepare 30% (Conceptual) Design - SSW2 S22-140000 0° 15MAR02A 15MAR02A 100 Prepare 30% (Conceptual) Design - SSW2 S22-140000 | SR6-250040 | 0 (3) (4) (4) | 24SEP02A | 100 | |
| S22-120000 0* 14JAN02A 25JUL02A 100 Prepare/Revise Design Scope of Work - SSW2 | Р | hase III - Sectio | ns 35 & 36 Sites & N | orth Plant | | |
| S22-120000 0* 14JAN02A 25JUL02A 100 Prepare/Revise Design Scope of Work - SSW2 | | Sanitary Sewer I | Manhole Plugging - Pha | ise II | | |
| S22-I2000 0 14JAN02A 25JUL02A 100 Prepare/Revise Design Scope of Work - SSW2 | | | | | | |
| S22-122000 0 12FEB02A 100 | | S22-120000 | 0* 14JAN02A | 25JUL02A | 100 | |
| S22-125000 0 13FEB02A 14MAR02A 100 | | S22-INF1 | 0* 14JAN02A | 25JUL02A | 100 | |
| S22-130000 0115MAR02A 15MAR02A 100 Regulator / RMA Committee Review - SSW2 S22-140000 015MAR02A 15MAR02A 100 Prepare 30% (Conceptual) Design - SSW2 | | S22-122000 | 0 | | 100 | |
| Prepare 30% (Conceptual) Design - SSW2 | | S22-125000 | 0 13FEB02A | | SACRESCO CONTRACTOR | |
| S22-140000 0 15MAR02A 15MAR02A 100 Regulator / Committee Rev. & Public Input - SSW2 | | S22-130000 | 0 15MAR02A | 15MAR02A | 100 | l Prepare 30% (Conceptual) Design - SSW2 |
| | | S22-140000 | 0 15MAR02A | 15MAR02A | 100 | Regulator / Committee Rev. & Public Input - SSW2 |

| Activity ID | Rem Start Dur | Finish | % — — Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
|-------------------|------------------|---|--|--|
| Remedial Design | | | • 111 | |
| S22-150000 | 0 15MAR02A | 15MAR02A | 100 | Prepare 60% Design - SSW2 |
| S22-160000 | 0 15MAR02A | 15MAR02A | 100 | Regulator / Committee Review - SSW2 |
| S22-170000 | 0* 02JUL07A | 18SEP07A | 100 | Prepare 95% (Draft Final) Design - S |
| S22-175000 | 0 | 18SEP07A | 100 | <<<< <design deadline="">>>>> - SS</design> |
| S22-180000 | 0 20SEP07A | 22OCT07A | 100 | Regulator / Committee Review - SSV |
| S22-190000 | 0* 230CT07A | 20NOV07A | 100 | Prepare 100% Design - SSW2 |
| S22-INF2 | 0* 02JUL07A | 24JAN08A | 100 | Sanitary Sewer Phase II Design - 95/ |
| S22-INF | 0* 14JAN02A | 24JAN08A | 100 | Sanitary Sewer Phase II Design |
| Remediation Activ | /ities | >1×20300000000000000000000000000000000000 | ************************************** | |
| S24-125000 | 0 13DEC07A | 7.0 | 100 | <<<< <imp. deadline="" start="">>>> - SSW2</imp.> |
| S24-120000 | 0 03APR08A | 17APR08A | 100 | Il Mobilization - SSW2 PH II |
| S24-130000 | 0 18APR08A | 10JUL08A | 100 | Sanitary Sewer MH Plugging - SSW2 |
| S24-145100 | 0 | 12AUG08A | 100 | <<<< <imp. deadline="" finish="">>>> - SSW2</imp.> |
| S24-160000 | 0* 03APR08A | 10SEP08A | 100 | Project Support - Sanitary Sewer Manhole |
| S24-INF | 0* 03APR08A | 10SEP08A | 100 | Sanitary Sewer Manhole Plugging - Ph |
| S24-140000 | 0 21AUG08A | 10SEP08A | 100 | Demobilization - SSW2 PH II |
| Construction Com | pletion Report | · · · · · · · · · · · · · · · · · · · | | |
| S26-150000 | 0* 26JUL08A | 04SEP08A | 100 | Prep Construct Cmplt Report (CCR) - SSW2 |
| S26-150010 | 0 05SEP08A | 13OCT08A | 100 | Regulator/Committee Review CCR - SSW2 |
| S26-150020 | 0* 140CT08A | 22DEC08A | 100 | Incorp/Respond to Comments/Issue Draft CCR S |

| | Activity | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
|-----|-----------------|--|---------------------------------------|------------------------|---|
| | Construction Co | ompletion Report | | | |
| | S26-150030 | 0 23DEC08A | 17FEB09A | 100 | EPA/State-Prep & Iss Accept Ltr CCR-SS MHP Ph II |
| | S26-150040 | 0 | 17FEB09A | 100 | Project Complete - Ph II San Sewer Manhole Plug |
| | S26-INF | 0* 26JUL08A | 17FEB09A | 100 | CCR-Sanitary Sewer Manhole Plugging Ph II |
| | Section 36 Bala | nce of Areas Soil Rem | | | |
| IJГ | Remedial Desig | Barrantina aparente jantoro interestato accesso de la compansa del compansa de la compansa de la compansa del compansa de la c | осу 4 постоя свях обы к изваними яви: | ORDERS AND PROPERTY OF | |
| | T62-120000 | 0 19DEC00A | 22MAY01A | 100 | Prepare/Revise Draft Design Scope of Work - 36BA |
| | T62-122000 | O SA SECTION S | 06FEB01A | 100 | <>>> Design Scope Deadline >>>>- 36BA |
| | Т62-125000 | 0 06FEB01A | 07MAR01A | 100 | Regulatory Agency / RMA Committee Review - 36BA |
| | T62-130000 | 0 02JAN01A | 22MAY01A | 100 | Prepare 30% (Conceptual) Design - 36BA |
| | T62-140000 | 0 23MAY01A | 22JUN01A | 100 | Regulatory Agency Rev. & Public Input - 36BA |
| | T62-150000 | 0* 23MAY01A | 07FEB02A | 100 | Prepare 60% Design Phase I - 36BA |
| | T62-160000 | 0* 07FEB02A | 13MAR02A | 100 | Regulatory Agency Rev. 60% Des. Ph. I - 36BA |
| | T62-170000 | 0* 08FEB02A | 13MAR02A | 100 | Prepare 95% (Draft Final) Design Phase I - 36BA |
| | T62-155000 | 0* 13MAR02A | 24JUN02A | 100 | Prepare Revised 60% (Draft Final) Design - 36BA |
| | T62-195030 | 0* 03JUN02A | 220CT02A | 100 | Prepare ESD |
| | T62-165000 | 0* 25JUN02A | 08AUG02A | 100 | Regulatory Agency Rev. Revised 60% Des 36BA |
| | T62-171000 | 0* 25JUN02A | 26NOV02A | 100 | Prepare 95% (Draft Final) Design - 36BA |
| | T62-175000 | 0 | 26NOV02A | 100 | ্র <<< <obesign deadline="">>>>> - 36BA</obesign> |
| | T62-195034 | 0* 22OCT02A | 21NOV02A | 100 | Agencies Review ESD |
| | | | | | |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|------------------|---------------|----------|--------|--|
| Remedial Design | | | | |
| T62-195035 | 0* 22NOV02A | 13MAR03A | 100 | Finalize Revised ESD |
| T62-180000 | 0* 26NOV02A | 15JAN03A | 100 | ≅ Regulatory Agency Review 95% Design - 36BA |
| T62-190000 | 0* 27NOV02A | 29APR03A | 100 | Prepare 100% Design - 36BA |
| T62-195080 | 0* 14MAR03A | 24MAR03A | 100 | I Agencies Review Revised ESD |
| T62-195083 | 0* 29APR03A | 29MAY03A | 100 | 30 Day Public Comment Period on Revised ESD |
| T62-122010 | 0* 13JAN05A | 08JÜN06A | 100 | Prepare 95% ICSD Design - Sec36 BOA - 2 ft. Cvr. |
| T62-INF | 0* 19DEC00A | 08JUN06A | 100 | Sect. 36 Balance of Area Design |
| Remediation Acti | vities | | | |
| T64-125000 | 0 19MAY03A | | 100 | ™ <<<< <imp. deadline="" start="">>>>> - 36BA</imp.> |
| T64-120000 | 0* 16JUN03A | 29AUG03A | 100 | Mobilization - 36BA Part 1 |
| T64-120020 | 0* 23JUN03A | 29AUG03A | 100 | Geophysical Surface Sweep - 36BA Part 1 |
| T64-154010 | 0* 21JUL03A | 27APR04A | 100 | Demolition to Basin A (Non-Agent) - 36BA Part 1 |
| T64-165010 | 0* 21JUL03A | 27APR04A | 100 | Excavate Non-Agent Soils to Basin A -36BA Part 1 |
| T64-170000 | 0* 21AUG03A | 03OCT03A | 100 | Consolidate Demo Debris to Basin A - 36BA Part 1 |
| T64-160000 | 0* 28AUG03A | 05JAN04A | 100 | Excavate Agent Soils to HWL - 36BA Part 1 |
| T64-185000 | 0* 28AUG03A | 27APR04A | 100 | Agent Monitoring - 36BA Part 1 |
| T64-190000 | 0* 28AUG03A | 29APR04A | 100 | Consolidate Soils to HWL - 36BA Part 1 |
| T64-154000 | 0* 04SEP03A | 30SEP03A | 100 | Demolition to HWL (Agent) - 36BA Part 1 |
| T64-165020 | 0* 03OCT03A | 10MAR04A | 100 | Non-Agent Soil Piles to Basin A -36BA Part 1 |

| Activity ID | Rem Start Dur | Finish % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 I |
|------------------|------------------------|---------------|---|
| Remediation Acti | ivities 0* 03NOV03A | 28JAN04A 100 | Ex Chem Sewer to HWL (Agent) - 36BA Part 1 |
| 64-165000 | 0* 21NOV03A | 26JAN04A 100 | Excavate Non-Agent Soils to HWL - 36BA Part 1 |
| 64-175000 | 0* 01DEC03A | 07APR04A 100 | Zone E-ESSS(UXO Mag, Flag, and Dig) |
| 64-155010 | 0* 30DEC03A | 05JAN04A 100 | Ex Chem Sewer to HWL (Non-Agent) - 36BA Part 1 |
| 64-166100 | 0* 06FEB04A | 29APR04A 100 | Added Chem Sewer to Rod Width (Regulators) |
| 64-220000 | 0* 30JAN04A | 21MAY04A 100 | Demobilization - 36BA Part 1 |
| 64-165300 | 0* 29JAN04A | 17NOV04A 100 | Backfill and Soil Ripping - 36BA Part 1 |
| 64-120101 | 0* 23AUG04A | 10SEP04A 100 | 0 Mobilization Additional HHE Soil ExcavS36 BOA |
| 64-141101 | 0* 12OCT04A | 19NOV04A 100 | Excavation Additional HHE Soils - S36 BOA |
| 64-320000 | 0* 24NOV04A | 12JAN05A: 100 | S36BOA Biota Excavation |
| 64-290211 | 0* 13JAN05A | 14JAN05A 100 | l Demobilization Add. HHE/Biota Excav S36 BOA |
| 64-176000 | 0* 26APR04A | 15MAR05A 100 | Geophysical Survey/Removal of Targets -S36 BOA |
| 64-321000 | 0* 21MAR05A | 06APR05A 100 | Remediate Additional HHE & Biota Soil - S36 BOA |
| 64-322000 | 0* 21MAR05A | 06APR05A 100 | Transport Add. HHE to HWL - S36 BOA |
| 64-323000 | 0* 21MAR05A | 06APR05A 100 | Transport Add. Biota to Basin A - S36 BOA |
| 764-INF1 | 0* 16JUN03A | 06APR05A 100 | Sect 36 BOA -Demo, Excavation & Disposal Part 1 |
| 64-121000 | 0* 12APR05A | 13MAY05A 100 | Mobilization - 36BA Part 2 - Phase I |
| 64-310000 | 0* 26MAY05A | 280CT05A 100 | S36BOA Site Grading for 2 ft Cover Constr. |

| Activity ID | Rem Start Dur | Finish | % F | 797 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
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| Remediation Activ | rities | | | |
| T64-220500 | 0* 19SEP05A 2 | 23NOV05A | 100 | Demobilization - 36BA Part 2 - Phase I |
| T64-315000 | 0* 29NOV05A | 28SEP06A | 100 | S36 BOA Grading-Drainage from CAT N of B.A. {S3 |
| T64-314000 | 0* 20FEB06A (| 09MAR06A | 100 | l S36BOA - Fire Station Demolition |
| T64-313000 | 0* 250CT05A | 20SEP06A | 100 | S36 BOA Subgrade & Site Grading by CAT {S3} |
| T64-213000 | 0* 16OCT06A | 200CT06A | 100 | l Revegetation - 36BOA Part 2 & related BA |
| T64-252000 | 0 03JUL06A | 17JUL06A | 100 | l Mobiliz Sec 36 Subgrade (w/Basin A North S |
| T64-312000 | 0* 05JUL06A | 14NOV06A | 100 | S36 BOA Site Grading by Basin A North |
| T64-INF2 | 0* 12APR05A | 14NOV06A | 100 | Sect. 36 BOA Grading (Subgrade) Constr - Part 2 |
| T64-225000 | The Property of the Control of the C | 14NOV06A | 100 | ************************************** |
| T64-340000 | 0* 16JUN03A | 14NOV06A | 100 | Sec 36 BOA - Project Support |
| T64-INF | 0* 16JUN03A | 14NOV06A | 100 | Sect. 36 Balance of Area Soils Remediation |
| T64-230245 | 0 08APR08A | 11APR08A | 100 | Section 36 Removal of Storm Water Dra |
| T64-230260 | 0* 01JUL08A | 20NOV08A | 100 | DSR - Section 36 BOA - Par |
| T640230250 | 0 17NOV08A | 13AUG09A | 100 | Section 36 Rock Removal and |
| T64-330260 | 0* 22AUG08A | 04DEC08A | 100 | DSR - Section 36 BOA - P |
| T64-330300 | 0* 16DEC08A | 08OCT09A | 100 | ESD - Section 36 BOA - Soil Volume/Cost C |
| Construction Con | pletion Report | | | |
| T66-230100 | | 06APR06A | 100 | Prep Constr. Completion Rpt (CCR) Part 1-36BOA |
| T66-230101 | 0 07APR06A | 30MAR07A | 100 | Regulator/Committee Review CCR Part 1-36BO |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
|-------------------------------------|------------------------------|----------|-----------|--|
| Construction Com | pletion Report 0 01MAY08A | 19AUG08A | 100 | |
| 100-200 (02 | o onwareda | ISAUGUOA | 100 | PMC Revise Draft CCR - S36 B0 |
| T66-230110 | 0* 20AUG08A | 20JAN09A | 100 | Regulator/Committee Review Drft CCR -S36 BC |
| T66-INF1 | 0* 25JAN05A | 05MAY09A | 100 | CCR - Section 36 BOA - Part 1 |
| T66-230120 | 0* 21JAN09A | 19FEB09A | 100 | Incorp. Comments & Resubmit CCR - S36 B |
| T66-230130 | 0* 20FEB09A | 05MAY09A | 100 | EPA-State Prep & Issue Acpt Ltr CCR -S36 B |
| T66-230140 | O See Brand | 05MAY09A | 100 | Project Complete - Section 36 BOA |
| T66-230000 | 0 01MAY08A | 16JUN09A | 100 | Prep Constr Completion Rpt (CCR)-S36 |
| T66-230010 | 0 19JUN09A | 24JUL09A | 100 | Regulator/Committee Review CCR - S36 |
| T66-230020 | 0* 27JUL09A | 19NOV09A | 100 | Incorp/Resp to Cmts/Issue Draft CCR-S36 B |
| T66-230030 | 0* 24NOV09A | 22FEB10A | 100 | EPA-State Prep & Issue Acpt Ltr CCR-S36 BC |
| T66-230040 | 0 (41) | 22FEB10A | 100 | Project Complete - Section 36 BOA |
| T66-INF2 | 0* 01MAY08A | 22FEB10A | 100 | CCR - Section 36 BOA - Part |
| T66-INF | 0* 25JAN05A | 22FEB10A | 100 | Const Completion Report (CCR) Process - 36BOA |
| Secondary Basins Remedial Design | Soil Remediation | | | |
| SB2-120100 | 0 23AUG99A | 10DEC99A | 100 | Prepare/Revise Design Scope of Work - SEHH |
| SB2-122100 | 0 | 17SEP99A | 100 | Section Scope Deadline >>>>- SEHH |
| SB2-121100 | 0 18SEP99A | 17OCT99A | 100 | Regulator/RMA Committee Review Draft SOW - SEHH |
| SB2-130100 | 0 18OCT99A | 10DEC99A | 100 | Prepare 30% (Conceptual) Design - SEHH |

| Activity ID | Rem Start Dur | Finish | % FY9' | 7 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY1 |
|------------------|------------------|----------|--|---|
| Remedial Design | | | | |
| SB2-140100 | 0 11DEC99A | 09JAN00A | 100 | Regulator / Committee Rev. & Public Input - SEHH |
| SB2-150100 | 0 10JAN00A | 10MAR00A | 100 | Prepare 60% Design - SEHH |
| SB2-160100 | 0 11MAR00A | 09APR00A | 100 | Regulator / Committee Review - SEHH |
| SB2-170100 | 0 10APR00A | 26MAY00A | 100 | Prepare 95% (Draft Final) Design - SEHH |
| SB2-175100 | O BEST | 26MAY00A | 100 | <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre> <pre></pre> /pre> |
| SB2-180100 | 27MAY00A | 25JUN00A | 100 | Regulator / Committee Review - SEHH |
| SB2-INF1 | 0* 23AUG99A | 25AUG00A | 100 | Secondary Basins Design - SEHH |
| SB2-190100 | 0 26JUN00A | 25AUG00A | 100 | Prepare 100% Design - SEHH |
| SB2-200100 | 0* 28AUG00A | 160CT01A | 100 | ESD to 100% Design Package - SEHH |
| SB2-200200 | 0* 17OCT01A | 31JAN02A | 100 | DCN to 100% Design Package - SEHH |
| SB2-INF | 0* 23AUG99A | 31JAN02A | 100 | Secondary Basins Design - SEHH |
| Remediation Acti | vities | | ###################################### | |
| SB4-120100 | 0* 21MAR01A | 21AUG01A | 100 | Mobilization - SEHH |
| SB4-125100 | 0 21MAR01A | 22.415 | 100 | <><< <imp. deadline="" start="">>>> - SEHH</imp.> |
| SB4-130100 | 0* 08JUN01A | 24AUG01A | 100 | Excavate HHE Soil - SEHH |
| SB4-140000 | 0* 08JUN01A | 24AUG01A | 100 | Landfill HH Soil - SEHH |
| SB4-130150 | 0* 20AUG01A | 31AUG01A | 100 | l Backfill HHE Soil - SEHH |
| SB4-178500 | 0* 20AUG01A | 31AUG01A | 100 | l BOR3 Support to Secondary Basin HHE Soils - SHEE |
| SB4-170100 | 0* 04SEP01A | 09NOV01A | 100 | Demobilization - SEHH |

| Activity ID | Rem Start Dur | Finish | % FY97 Comp | FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|------------------|-----------------|----------|---------------------------------------|---|
| Remediation Act | ivities | - | · · · · · · · · · · · · · · · · · · · | |
| SB4-176100 | 0* 290CT01A | 09NOV01A | 100 | l Revegetation - SEHH |
| SB4-120200 | 0* 15JUL02A | 27SEP02A | 100 | Mobilization - SESC |
| SB4-130200 | 0* 04SEP02A | 21JAN03A | 100 | Excavate Biota Soil - SESC |
| SB4-140100 | 0* 16SEP02A | 21JAN03A | 100 | Consolidation of Biota Soil to Basin A - SESC |
| SB4-150200 | 0* 07NOV02A | 18FEB03A | 100 | Backfill w/Borrow Material -SESC |
| SB4-178000 | 0* 07NOV02A | 18FEB03A | 100 | BOR3 Support to Secondary Basin Cap - SESC |
| SB4-170200 | 0* 30JAN03A | 14MAR03A | 100 | Demobilization - SESC |
| SB4-175200 | 0 | 26FEB03A | 100 | ≋ <<<< <lmp. deadline="" finish="">>>> - SESC</lmp.> |
| SB4-190100 | 0* 21MAR01A | 26FEB03A | 100 | Project Support - Secondary Basin SEHH |
| SB4-INF | 0* 21MAR01A | 26FEB03A | 100 | Secondary Basins Remediation - SEHH |
| SB4-175300 | 0* 05NOV07A | 28FEB08A | 100 | Secondary Basins Soil Rem - Part 1 CSV Re |
| SB4-175400 | 0 16APR08A | 16APR08A | 100 | l Pre-Final Inspection - SBCSV |
| SB4-175500 | 0 16APR08A | 16APR08A | 100 | l Final Inspection - SBCSV |
| Construction Co. | mpletion Report | | | |
| SB6-180100 | 0 27FEB03A | 28MAY03A | 100 | Prep Construction Cmplt Report (CCR) - SEHH |
| SB6-180110 | 0 06JUN03A | 18AUG03A | 100 | Regulator/Committee Review CCR - SEHH |
| SB6-180120 | 0 19AUG03A | 02DEC03A | 100 | Incorp/Respond to Comments/Issue Draft CCR-SEHH |
| SB6-INF1 | 0* 27FEB03A | 15JUL04A | 100 | EPA - State Prepare & Issue Accept Ltr - SB |
| SB6-180130 | 0 08DEC03A | 15JUL04A | 100 | EPA - State Prepare & Issue Accept Ltr |

| | Rem Start Dur | Finish % | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
|---|--|-----------------|--|
| Construction Comp | The second secon | 1 | |
| SB6-180140 | 0 | 15JUL04A 1 | 0 Project Complete - Secondary Basins Soil Rem. |
| SB6-190100 | 0 17APR08A | 17JUN08A 1 | Prep Construction Cmplt Report (CCR) - SB |
| SB6-190110 | 0 18JUN08A | 17JUL08A 1 | Regulator/Committee - Review CCR - SB |
| SB6-190120 | 0* 23OCT08A | 20JAN09A 1 | 0 Incorp Comments/Issue Draft CCR - SB |
| SB6-190115 | 0 22JAN09A | 25FEB09A 1 | Regulator/Committee - Review CCR - SB |
| SB6-190125 | 0* 26FEB09A | 07MAY09A 1 | Incorp Comments/Issue Revised Draft CCR - SB |
| SB6-190130 | 0 08MAY09A | 15JUN09A 1 | 0 EPA-State - Prepare & Issue Accept Ltr-SB |
| SB6-INF2 | 0* 17APR08A | 15JUN09A 1 | CCR - Secondary Basins - CSv |
| SB6-190140 | . 0 | 15JUN09A 1 | EPA-State - Prepare & Issue Accept Ltr - SB |
| SB6-INF | 0* 27FEB03A | 15JUN09A 1 | Const Cplt Rprt (CCR) Process-SEHH |
| omplex(Army)Dis Remedial Design | posal Trenches Rem | nediation-Cover | |
| CT2-120000 | 0 17DEC02A | 22MAY03A 1 | Prepare / Revise Design Scope of Work - CXTR |
| CT2-122000 | 0 | 06MAR03A 1 | 00 CXTR |
| CT2-125000 | 0 07MAR03A | 18APR03A 1 | Regulator / RMA Committee Review - CXTR |
| CT2-130000 | 0 23MAY03A | 12AUG03A 1 | Prepare 30% (Conceptual) Design - CXTR |
| CT2-140000 | 0 13AUG03A | 19SEP03A 1 | Regulator / Committee Rev. & Public Input - CXTR |
| CT2-151100 | 0 07JUN04A | 18JUN04A 1 | UXO Surface Walk - CXTR |
| CT2-130010 | 0* 03MAR03A | 15OCT04A 1 | 00 Borrow Area 10 Site Characterization |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 | FY11 F |
|-----------------|---|----------|--------|---|---------------------------------------|
| Remedial Design | | | | | |
| CT2-130009 | 0* 11MAY04A | 15OCT04A | 100 | Borrow Area 9c Site Characterization | |
| CT2-INF1 | 0* 17DEC02A | 29MAR05A | 100 | Complex (Army) Trenches Subgrade Design | |
| CT2-151000 | 0 07MAY04A | 28SEP04A | 100 | Prepare 95% Subgrade Design - CXTR | |
| CT2-161000 | 0* 30SEP04A | 29OCT04A | 100 | 95% Design - Gradefill Regulator Review - CXTR | |
| CT2-191000 | 0* 30SEP04A | 29MAR05A | 100 | Prepare 100% Subgrade Design - CXTR | |
| CT2-160000 | 0 31JAN05A | 31JAN05A | 100 | 60% Cover Design Reg. Rev CXTR (Not used) | |
| CT2-170000 | 0* 31JAN05A | 08JUN06A | 100 | Prepare 95% Cover Design - CXTR (part of ICSD) | |
| CT2-175000 | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 08JUN06A | 100 | <<<< <design deadline="">>>>> - CXTR</design> | · · · · · · · · · · · · · · · · · · · |
| CT2-180000 | 0 09JUN06A | 10JUL06A | 100 | Regulator / Committee Review - 95% ICs | SD for C |
| CT2-190000 | 0* 09JUN06A | 29SEP06A | 100 | Prepare 100% ICSD - CXTR | |
| CT2-174100 | 0 02JAN07A | 03APR07A | 100 | Prepare/Revise 95% ICS Design - 0 | CXTR |
| CT2-174105 | 0 04APR07A | 03MAY07A | 100 | Reg. Review Revised 95% ICS De | esign - (|
| CT2-INF2 | 0* 31JAN05A | 23AUG07A | 100 | Complex (Army) Trenches Cover Design [ICSD] | |
| CT2-174110 | 0 30APR07A | 23JUL07A | 100 | Prepare/Revise 100% ICS Desig | jn - CXΠ |
| CT2-195000 | 0 25JUL07A | 23AUG07A | 100 | □ Reg Review Revised 100% ICS De | esign - (|
| CT2-INF | 0* 17DEC02A | 22APR08A | 100 | Complex (Army) Trenches Design | |
| CT2-195001 | 0 24AUG07A | 230CT07A | 100 | Revise & Submit Final 100% ICS De | esign - (|
| CT2-195114 | 0 24OCT07A | 20NOV07A | 100 | Reg. Agencies Review R2 100% ICS De | esian I |

| Activity | Rem Start Dur | Finish | % | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
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| Remedial Design | | | | |
| CT2-195120 | 0 21NOV07A | 22APR08A | 100 | Prepare DCN & Obtain Agency Approv |
| Remediation Activ | vities | | | |
| CT4-125000 | 0 27JUL05A | 20 AND 10 | 100 | <><< Start Deadline>>>>> - CXTR |
| CT4-120000 | 0* 07SEP05A | 24OCT05A | 100 | ⊞ Mobilization - Gradefill CXTR |
| CT4-179520 | 0* 02NOV05A | 16JAN06A | 100 | BOR 10 Suppt Complex Disp Trenches G/F |
| CT4-160000 | 0* 240CT05A | 31AUG06A | 100 | Install Gradefill - CXTR {S3} |
| CT4-169000 | 0* 31JUL06A | 29SEP06A | 100 | Demobilization - Gradefill CXTR |
| CT4-INF1 | 0* 07SEP05A | 21MAR07A | 100 | CAT Subgrade Construction |
| CT4-160500 | 0* 16MAR07A | 21MAR07A | 100 | Temporary Revegetation (Gradefill) - 0 |
| CT4-170100 | 0 13SEP07A | 16NOV07A | 100 | III Subgrade Prep - CAT |
| CT4-171000 | 0 19SEP07A | 04JAN08A | 100 | BBM Placement - CAT |
| CT4-171010 | 0 29OCT07A | 24JAN08A | 100 | Choke Surface - CAT |
| CT4-179440 | 0* 29OCT07A | 22JUL08A | 100 | BOR 10 Support CAT Cover |
| CT4-170001 | 0 07APR08A | 22JUL08A | 100 | CBL/Cover Soil/Perimeter G |
| CT4-182001 | 0 22JUL08A | 02JUL09A | 100 | Prefinal Inspection Proces |
| CT4-182003. | 0 21OCT08A | 25NOV08A | 100 | Perm Reveg - CAT |
| CT4-182004 | 0 24FEB09A | 24JUL09A | 100 | Irrigation Setup - CA |
| CT4-182010 | 0 17MAR09A | 29JAN10A | 100 | CAT Access Road Construction |
| CT4-182011 | 0 23JUL09A | 23JUL09A | 100 | Prefinal Inspection Conferen |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 | FY01 FY02 FY03 FY04 | FY97 FY98 FY99 F | % — Comp | Finish | Rem Start | Activity ID |
|--|---------------------|------------------|----------|--------------|-----------------|------------------|
| | | | | | vities | Remediation Acti |
| Irrigation - CAT | | | 100 | 12SEP09A | 0 25JUL09A | CT4-186001 |
| CAT RCRA-Equivalent Cover Constr | | | 100 | 12SEP09A | 0* 13SEP07A | CT4-INF2 |
| CERT REPORT-Complex Army Trenches-RCRA-Eq | | | 100 | 16NOV10A | 0* 23JUL09A | CT4-200200 |
| Construct Engineering Controls | | | 100 | 02MAR10A | 0 14SEP09A | CT4-187000 |
| Pre Final Inspection (Enginrng Controls) | | | 100 | 04MAR10A | 0 04MAR10A | CT4-187010 |
| Final Inspection | | | 100 | 21APR10A | 0 21APR10A | CT4-180001 |
| Remove RMA Primary Haul Roads | | | 100 | 02MAR10A | 0 01OCT09A | CT4-186110 |
| Demobilization - CAT | | | 100 | 30APR10A | 0* 21APR10A | GT4-190000 |
| <<< Finish Deadline>>>>> | 1. | | 100 | 16NOV10A | 0 | CT4-195000 |
| Project Support - Complex (Army) Trenches Rem | | | 100 | 01APR11A | 0* 07SEP05A | CT4-210000 |
| Formal Records R | | | 100 | 01APR11A | 0 28FEB11A | CT4-180011 |
| FIELD-Complex Army Disposal Trenches-RCRA Eq Cyr | | | 100 | 01APR11A | 0* 27JUL05A | CT4-INF |
| | | | | | mpletion Report | Construction Con |
| SG - Prep Constr. Cmplt Report (CCR) - C | | | 100 | 09JAN07A | 0 06NOV06A | CT6-210000 |
| Subgrade - Const Cplt Rprt (CCR) Process- | | | 100 | 17JUL08A | 0* 06NOV06A | CT6-INF1 |
| l SG - Regulator/ Committee Review CCR - | | | 100 | 24JAN07A | 0 10JAN07A | CT6-210010 |
| SG- Incorp/Resp. to Comments/Issue Dr. CCR | | - | 100 | 21FEB08A | 0 25JAN07A | CT6-210020 |
| EPA - State Prep. & Iss. Accept Ltr CCR - CA | | | 100 | 17JUL08A | 0 08MAY08A | CT6-210030 |
| Subgrade CCR Complete Complex Army T | | | 100 | 17JUL08A ::: | 0 | CT6-210040 |

| 35000 Central - | ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
|-----------------|--------------------|------------------------|----------|--------|---|
| Cor | nstruction Com | pletion Report | | | |
| СТ6 | 6-199950 | 0 15SEP08A | 02DEC08A | 100 | PMC - Prep Draft CCR Part I - ICS CAT |
| СТЕ | 6-INF0 | 0* 15SEP08A | 12FEB09A | 100 | CCR Part I Draft - ICS CAT |
| CTE | 6-199960 | 0 02DEC08A | 12FEB09A | 100 | Agency - Review Draft CCR Part I - ICS CAT |
| Сте | 6-INF2 | 0* 15SEP08A | 26JAN11A | 100 | CCR-Complex Army Disp Trench-ICS RCRA-Eq Covers |
| СТЕ | 6-200000 | 0* 01FEB10A | 01APR10A | 100 | Prep Constr Cmplt Report (CCR)-ICS Covers |
| CT6 | 6-200010 | 0* 02APR10A | 13MAY10A | 100 | Regulator/Committee Review CCR-ICS Covers |
| Сте | 6-200020 | 0* 14MAY10A | 08SEP10A | 100 | Incorp/Resp to Comments/Iss Draft CCR-ICS Covers |
| CT6 | 6-200030 | 0 09SEP10A | 26JAN11A | 100 | EPA-State Prepare & Iss Accept Ltr CCR-ICS Cover |
| CTG | 6-200040 | 0 | 26JAN11A | 100 | CCR Complete - ICS Covers |
| | F6-INF | 0* 06NOV06A | 26JAN11A | 100 | Const Cplt Rprt (CCR) Process-CXTR |
| Sh | ort-Term Monite | oring/Maintenance/Oper | rations | | |
| CT | Г 7-6 00000 | 0 21SEP09A | 30NOV10A | 100 | CAT Cover-Begin 5 Year Veg. Obs. & Rprt Period |
| СТ | F7-100000° | 0* 21SEP09A | 30NOV10A | 100 | <>< Short-Term M&M >>> - CAT Cover |
| Shel | II Disposal Tre | nches Remediation - | Cover | | |
| Rei | emedial Design | | | | |
| ST: | 2-120000 | 0 17DEC02A | 22MAY03A | 100 | Prepare / Revise Design Scope of Work - SHTR |
| ST | T2-122000 | | 06MAR03A | 100 | <<<< DesignScope Deadline >>>>- SHTR |
| ST2 | 2-125000 | 0 07MAR03A | 18APR03A | 100 | Regulator / RMA Committee Review - SHTR |
| ST | 72-130000 | 0 23MAY03A | 12AUG03A | 100 | Prepare 30% (Conceptual) Design - SHTR |
| ST | 72-140000 | 0 12AUG03A | 19SEP03A | 100 | Regulator / Committee Rev. & Public Input - SHTR |

| Activity ID | Rem Start Dur | Finish | % F) | '97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 I |
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| Remedial Design | · · | in Digerranger herren er skriver | Jane Salanaan Lane | |
| ST2-171000 | 0* 15APR04A | 22JUL04A | 100 | Prepare 95% Subgrade Design - SHTR |
| ST2-181000 | 0 22JUL04A | 23AUG04A | 100 | 95% Regulator / Committee Review - Subgrade SHTR |
| ST2-191000 | 0* 24AUG04A | 23DEC04A | 100 | Prepare 100% Subgrade Design - SHTR |
| ST2-INF1 | 0* 17DEC02A | 23DEC04A | 100 | Shell Disposal Trenches Subgrade Design |
| ST2-150000 | 0* 29JUN04A | 190CT04A | 100 | Prep. 60% RCRA Equiv.Cover (R.E.C.) Design -SHTR |
| ST2-160000 | 0* 190CT04A | 22NOV04A | 100 | 60% Regulator / Committee Review (R.E.C.)- SHTR |
| ST2-170000 | 0* 190CT04A | 24FEB05A | 100 | Prepare 95% (R.E.C.) Design - SHTR |
| ST2-175000 | 0 | 24FEB05A | 100 | ** Compare the second of the secon |
| ST2-180000 | 0* 25FEB05A | 28MAR05A | 100 | 95% Regulator / Committee Review (R.E.C.)- SHTR |
| ST2-190000 | 0* 25FEB05A | 01DEC05A | 100 | Prepare 100% (R.E.C.) Design - SHTR |
| ST2-195000 | 0* 13FEB06A | 04MAY06A | 100 | Revise 100% (R.E.C) Design (Rev 1) - SHTR |
| ST2-123050 | 0 09JUN06A | 29SEP06A | 100 | Prepare 100% ICSD Design - Shell 2 ft. Cov |
| ST2-174100 | 0 02JAN07A | 03APR07A | 100 | Prepare/Revise 95% ICS Design - SHTR |
| ST2-174105 | 0 04APR07A | 03MAY07A | 100 | Reg. Review Revised 95% ICS Design - |
| ST2-174110 | 0 30APR07A | 23JUL07A | 100 | Prepare/Revise 100% ICS Design - SI |
| ST2-INF2 | 0* 29JUN04A | 23AUG07A | 100 | Shell Disposal Trenches Cover Design [ICSD] |
| ST2-174112 | 0 25JUL07A | 23AUG07A | 100 | Reg Review Revised 100% ICS Design |
| ST2-174001 | 0 24AUG07A | 23OCT07A | 100 | Revise & Submit Final 100% ICS Design - |

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| | | | * 1411111111111111111111111111111111111 | <u>il</u> | | Remedial Design |
| □ Reg. Agencies Review R2 100% ICS Design | | | 100 | 20NOV07A | 0 24OCT07A | ST2-174114 |
| Reg Review Revised 100% ICS Design | | | 100 | 22APR08A | 0 21NOV07A | ST2-174120 |
| Trenches Design - Cover | | | 100 | 22APR08A | 0* 17DEC02Å | ST2-INF |
| | A | | SAMANIA COMPANIA | | ies | Remediation Act |
| <<<< <imp. deadline="" start="">>>>> - SHTR</imp.> | | | 100 | | 0 04FEB05A | ST4-125000 |
| ☐ Subgrade S/C Mobilization - SHTR | | | 100 | 24MAY05A | 0* 12APR05A | ST4-120100 |
| Install Gradefill - SHTR | | | 100 | 26JUL05A | 0* 02MAY05A | ST4-130000 |
| Subgrade S/C- Demobilization- SHTR | | | 100 | 23SEP05A | 0 27JUL05A | ST4-120110 |
| SDT RCRA-Equivalent Cover Subgrade Construction | | | 100 | 26JUL05A | 0* 12APR05A | ST4-INF1 |
| Stockpile AZ Soils & Sample AZ in BA 10 - SHTR | | | 100 | 16DEC05A | 0* 02NOV05A | ST4-440000 |
| © Cover S/C - Mobilization - SHTR | | | 100 | 06SEP06A | 0* 09AUG06A | ST4-120000 |
| l Demonstration Pad - SHTR | | | 100 | 20SEP06A | 0* 11SEP06A | ST4-142200 |
| Install Biota Barrier - SHTR | | | 100 | 11DEC06A | 0 26SEP06A | ST4-142000 |
| Install RCRA-Equivalent Cover System | | | 100 | 18JUN07A | 0* 05MAR07A | ST4-140000 |
| l Place Soil Amendments - SHTR | | | 100 | 19JUN07A | 0* 13JUN07A | ST4-190110 |
| BOR10 Support to Shell Disp Trenches Cover | | | 100 | 19JUN07A | 0* 02NOV05A | ST4-179900 |
| Seed Perm. Vegetation Over Soil Cover/Cap- | | | 100 | 23JUN07A | 0* 20JUN07A | ST4-190000 |
| Setup / Irrigate Veget. / Inst. Er. Monum | | | 100 | 15SEP07Å | 0* 04JUN07A | ST4-190120 |
| Cover Construction S/C Demobilization | | | 100 | 16OCT07A | 0* 18JUN07A | ST4-200000 |

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|---------------------|------------------|----------|---|-----------|---------------------|--|
| Remediation Activit | | 1 | - 1110101111111111111111111111111111111 | | | |
| ST4-INF2 | 0* 09AUG06A | 16OCT07A | 100 | | | SDT RCRA-Equivalent Cover Construction |
| ST4-210200 | 0* 16JUL07A | 04JUN08A | 100 | - | | Certification Report - Shell RCRA-Eq Co |
| ST4-311STM | 0* 18MAR08A | 26SEP08A | 100 | | | Stormwater Controls - Shell 2 Ft Co |
| ST4-311000 | 0 18MAR08A | 09MAY08A | 100 | | | Subgrade Prep/Cover Soil - West Shell 2 Ft Co |
| ST4-179920 | 0* 18MAR08A | 09MAY08A | 100 | | | BA 3 Support to Shell 2 Ft Cover |
| ST4-311005 | 0 03JUN08A | 03JUL08A | 100 | | | Soil Amendments - West Shell 2 Ft Co |
| ST4-311500 | 0 13JUN08A | 03JUL08A | 100 | | | Perm Reveg & Irrig. Setup - West Shell 2 Ft |
| ST4-311004 | 0 26JUN08A | 26JUN08A | 100 | | | Prefinal Inspection - West Shell 2 Ft Co |
| ST4-311501 | 0 07JUL08A | 26SEP08A | 100 | | | Irrigation - West Shell 2 Ft Cov |
| ST4-311001 | 0 28JUL08A | 20AUG08A | 100 | | | □ Subgrade Prep/Cover Soil - East Shell 2 Ft Co |
| ST4-311008 | 0 24OCT08A | 24OCT08A | 100 | | | ₽reFinal Inspection - East Shell 2 Ft Co |
| ST4-311502 | 0 21APR10A | 21APR10A | 100 | | | Final Inspection - West Shell 2 Ft Co |
| ST4-311011 | 0 27OCT08A | 25JUL09A | 100 | | | Soil Amendments - East Shell 2 Ft Co |
| ST4-311021 | 0 20FEB09A | 25JUL09A | 100 | | | Perm Reveg East Shell 2 Ft |
| ST4-311022 | 0 24FEB09A | 24JUL09A | 100 | | | Irrigation Setup - East Shell 2 Ft |
| ST4-311031 | 0 25JUL09A | 12SEP09A | 100 | | | Irrigation - East Shell 2 Ft Co |
| ST4-INF3 | 0* 18MAR08A | 12SEP09A | 100 | | | Shell 2-Ft Cvr (CS/GF-Irrig - ICS |
| ST4-189000 | 0 14SEP09A | 02MAR10A | 100 | | : : : : | Construct Engineering Controls - Shell |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY | FY01 FY02 FY03 FY04 | FY99 FY00 | FY97 FY98 | % Comp | Finish | Rem Start Dur | Activity ID |
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| | | | | F | | L | Remediation Act |
| Construct Engineering Controls - E. Shell 2 | | | | 100 | 02MAR10A | 0 14SEP09A | ST4-311061 |
| Remove RMA Primary Haul Roads - S | i . | | | 100 | 02MAR10A | 0 01OCT09A | ST4-311110 |
| Prefinal Inspect (Eng. Controls) - SDT 2Ft Co | | | | 100 | 04MAR10A | 0 04MAR10A | ST4-311071 |
| l Demobilization - Shell 2 Ft Co | | | | 100 | 21APR10A | 0 12APR10A | ST4-311600 |
| Final Inspection - East Shell 2 Ft Co | | | | 100 | 21APR10A | 0 21APR10A | ST4-311051 |
| <<<<< mp. Finish Deadline - ST>>>>>> - SH | | | | 100 | 21APR10A | ; O | ST4-205000 |
| Formal Records Rev | | | | 100 | 20MAY11A | 0 22APR11A | ST4-311070 |
| Project Support - Shell Disposal Trenches Rem | | | | 100 | 20MAY11A | 0* 04FEB05A | ST4-220000 |
| FIELD-Shell Disposal Trenches-RCRA-Eq Cvr Constr | | - | | 100 | 20MAY11A | 0* 04FEB05A | ST4-INF |
| | | | | | | mpletion Report | Construction Co |
| Prep. Subgrade Constr. Cmplt Rpt. (CCR) - SF | | | | 100 | 01FEB07A | 0 21DEC06A | ST6-210050 |
| Regulator/Committee Review Subgrade CCR - Sh | | | | 100 | 09FEB07A | 0 02FEB07A | ST6-210060 |
| Incorp/Resp to Comments/Issue Draft SG CCR SH | | | | 100 | 15MAR07A | 0 12FEB07A | ST6-210070 |
| CCR-Shell Disposal Trenches-RCRA-Eq Cover Pa | | | | 100 | 05JAN09A | 0* 21DEC06A | ST6-INF1 |
| Prep Constr Cmplt Rpt (CCR) Part 1 - Sh | | | | 100 | 15MAY08A | 0* 29OCT07A | ST6-210000 |
| Regulator/Committee Review CCR Part 1 - Sh | | | | 100 | 01JUL08A | 0* 16MAY08A | ST6-210010 |
| Incorp Comments & Resubmit CCR Part 1 - Sh | | | | 100 | 25NOV08A | 0* 02JUL08A | ST6-210020 |
| EPA-State Prep & Iss Accept Ltr CCR Part 1 Sh | | with the second | | 100 | 05JAN09A | 0* 26NOV08A | ST6-210030 |
| Project Complete Part 1 - Sh | | | | 100 | 05JAN09A | 0 | ST6-210040 |

| 4 FY05 FY06 FY07 FY08 FY09 FY10 FY11 | FY01 FY02 FY03 FY04 | FY97 FY98 FY99 FY0 | % | Finish | em Start ur | Activity ID |
|--|---------------------------------------|--------------------|-------------------|----------|-------------------|--------------------|
| | | | 11111 | | | Construction Com |
| PMC - Prep Draft CCR Part I - Io | | | 100 | 02DEC08A | 0 15SEP08A | ST6-209950 |
| CCR Part I Draft - ICS SE | | | 100 | 12FEB09A | 0* 15SEP08A | ST6-INF0 |
| Agency - Review Draft CCR Part I - IG | | | 100 | 12FEB09A | 0 02DEC08A | ST6-209960 |
| CCR-Shell Disposal Trenches-ICS 2FT | | | 100 | 26JAN11A | 0* 15SEP08A | ST6-INF2 |
| Prep Constr. Cmplt Rpt. (CCR) ~ ICS | | | 100 | 01APR10A | 0* 01FEB10A | ST6-210001 |
| Regulator/Committee Review CCR - ICS | | | 100 | 13MAY10A | 0* 02APR10A | ST6-210011 |
| Incorp/Resp to Comm/Issue Draft CCR-ICS | | | 100 | 08SEP10A | 0* 14MAY10A | ST6-210021 |
| EPA-State Prep & Issue Accept Ltr CCR-ICS | | | 100 | 26JAN11A | 0* 09SEP10A | ST6-210031 |
| CCR Complete - ICS | | | 100 | 26JAN11A | Ö | ST6-210032 |
| Const Cplt Rprt (CCR) Process-SHTR | | | 100 | 26JAN11A | 0* 21DEC06A | ST6-INF |
| | | <u> </u> | THE STREET STREET | rations | g/Maintenance/Ope | Short-Term Monito |
| 5 Year Veget. Obs & Report Period | | | 100 | 30NOV10A | 0 29OCT07A | ST7-600000 |
| <>< Short-Term M&M >>>> - SDT | | | 100 | 30NOV10A | 0* 02JUL07A | ST7-100000 |
| | | | | | nediation | orth Plants Soil R |
| | · · · · · · · · · · · · · · · · · · · | | | | | Remedial Design |
| Revise Sampling Analysis Plan - NP | Prepare / Re | | 100 | 07NOV03A | 0* 05JUN03A | NP2-110000 |
| re Feasibility Study - NP | Prepare | | 100 | 03NOV03A | 0 03NOV03A | NP2-125500 |
| rm Sampling and Analysis | Perform | | 100 | 07MAY04A | 0* 10NOV03A | NP2-110500 |
| Prepare / Revise Design Scope of Work - NP | Pr | - | 100 | 14SEP04A | 0* 19JUL04A | NP2-120000 |
| <pre>tile <pre>t</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre> | # ** | | 100 | 14SEP04A | 0 | NP2-122000 |

| Activity ID | Rem Start Dur | Finish | Comp | -Y97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY |
|--------------------|---------------|----------|------|---|
| Remedial Design | | | | |
| NP2-125000 | 0* 14SEP04A | 02NOV04A | 100 | Regulator / RMA Committee Review - DSOW - NP S |
| NP2-130000 | .0* 30AUG04A | 25JAN05A | 100 | Prepare 30% (Conceptual) Design - NP Soils |
| NP2-140000 | 0* 25JAN05A | 04MAR05A | 100 | Regulator / Comm. Rev. & Input - NP 30% |
| NP2-150000 | 0 25JAN05A | 25JAN05A | 100 | l 60% Design - NP (Not Applicable) |
| NP2-170000 | 0* 25JAN05A | 25JAN05A | 100 | l Prepare Design - NP |
| NP2-171000 | 0 03OCT05A | 22FEB06A | 100 | Complete Construction Drawings NP (Vegetation) |
| NP2-180130 | 0* 23JUL07A | 28DEC07A | 100 | PMC Prep Draft PREAP for Agency Review |
| NP2-170100 | 0* 23JUL07A | 16APR08A | 100 | PREAP Prep/Approval Process - NP |
| NP2-510550 | 0* 23JUL07A | 06JAN09A | 100 | ESD-North Plants Soils - Eliminate NP Soil C |
| NP2-175000 | Ö | 06JAN09A | 100 | <<< <design deadline="">>>>> - NP</design> |
| NP2-INF | 0* 05JUN03A | 06JAN09A | 100 | NP Soils Remediation |
| Section 35 Soil Re | emediation | | | |
| Remedial Design | | | | |
| T52-120000 | 0 01DEC98A | 05APR99A | 100 | Prepare / Revise Design Scope of Work - 35S |
| T52-122000 | 0 | 20JAN99A | 100 | <>>> DesignScope Deadline >>>>- 35S |
| T52-125000 | 0 21JAN99A | 19FEB99A | 100 | Regulator / RMA Committee Review - 35S |
| T52-130000 | 0 19FEB99A | 28MAY99A | 100 | Prepare 30% (Conceptual) Design - 35S |
| T52-140000 | 0 01JUN99A | 26JUN99A | 100 | Regulator / Committee Rev. & Public Input - 35S |
| T52-150000 | 0 28JUN99A | 29SEP00A | 100 | Prepare 60% Design - 35S |

| Activity ID | Rem Start Dur | Finish % | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY |
|-------------------|------------------|------------|--|
| Remedial Design | | | |
| T52-160000 | 0 30SEP00A | 29OCT00A 1 | Regulator / Committee Review - 35S |
| T52-170000 | 0 30OCT00A | 20NOV01A 1 | Prepare 95% (Draft Final) Design - 35S |
| T52-175000 | .0 | 20NOV01A 1 | 00 <<Design Deadline >>>> - 35S |
| T52-180000 | 0 21NOV01A | 21DEC01A 1 | Regulator / Committee Review - 35S |
| T52-190000 | 0 26DEC01A | 15FEB02A 1 | 00 Prepare 100% Design - 35S |
| T52-185000 | 0* 22FEB05A | 27SEP05A 1 | Sect. 35 Soil Rem. Sampling and Design - SCL |
| T52-INF | 0* 01DEC98A | 27SEP05A 1 | Sect. 35 Soils Design |
| Remediation Activ | rities | | |
| T54-125000 | 0 28JUN02A | 1 | 00 |
| T54-120000 | 0* 28JUN02A | 31JAN03A 1 | Mobilization - 35S |
| T54-190000 | 0* 10SEP02A | 17JAN03A 1 | Landfill HH/Chemical Sewer - 35S |
| T54-160000 | 0* 10SEP02A | 03FEB03A 1 | Excavate HH/Biota Soil - 35S |
| T54-170000 | 0* 15NOV02A | 03FEB03A 1 | Consolidation of Biota Soil to Basin A - 35S |
| T54-153000 | 0* 24SEP02A | 13JAN03A 1 | Survey Remaining Chemical Sewer Pipe - 35S |
| T54-155000 | 0* 24SEP02A | 13JAN03A 1 | Excavate/Strip Remaining Sewer Overburden - 35S |
| T54-158000 | 0* 24SEP02A | 13JAN03A 1 | Excavate Remaining Chemical Sewer Pipe - 35S |
| T54-202000 | 0* 09JAN03A | 21FEB03A 1 | Backfill w/Sewer Overburden - 35S |
| T54-177000 | 0* 09JAN03A | 21FEB03A 1 | BOR3 Support to Section 35 Soils - 35SR |
| T54-200000 | 0* 09JAN03A | 21FEB03A 1 | 00 Backfill w/Borrow Material - 35S |

| Activity ID | Rem Start | Finish | % — Comp | FÝ97 FÝ98 | FY99 FY00 | FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|-------------------|----------------|----------|-------------|-----------|-----------|---------------------|--|
| Remediation Activ | ities | | | | | | |
| T54-240000 | 0* 30JAN03A | 14MAR03A | 100 | | | Demobilization | n - 35S |
| T54-245000 | .0 | 26FEB03A | 100 | | 1 | | Finish Deadline>>>> - 35S |
| T54-326000 | 0* 06JAN06A | 14MAR06A | 100 | | | | Mobilization - Sec. 35 - SCL |
| T54-420210 | 0* 20FEB06A | 20JUN06A | 100 | - | | | Remediate Biota - Sec. 35 - SCL |
| T54-305200 | 0* 21FEB06A | 21APR06A | 100 | | | | Place HHE in HWL - Sand Creek Lateral - S35 |
| T54-305100 | 0* 10APR06A | 26APR06A | 100 | | | | Place HHE in ELF- SCL - S35 Soils |
| T54-306000 | 0* 27MAR06A | 28JUL06A | 100 | | | | Backfill SCL Area - HHE& Biota - Sect. 35 Soil |
| T54-307000 | 0* 27MAR06A | 28JUL06A | 100 | | | | Borrow Area 3 Support of SCL - Sect. 35 Soil |
| T54-500000 | 0* 20JUL06A | 28JUL06A | 100 | | | | l Demobilization - Sect. 35 Soils |
| T54-360500 | O CHI COSHIDE | 28JUL06A | 100 | | | | Available for Reveg SCL Area - Sect. 35 |
| T54-INF3 | 0* 06JAN06A | 28JUL06A | 100 | | 2 | | Sect. 35 Soil Rem SCL |
| T54-260000 | 0* 15JUL02A | 28JUL06A | 100 | | J | Section 35 Soil Re | mediation Project Support |
| T54-INF | 0* 28JUN02A | 28JUL06A | 100 | | 2 | Sect. 35 Soil Reme | |
| Construction Com | pletion Report | | | | | | |
| T56-250000 | 0 27FEB03A | 21AUG03A | 100 | | | Prep Constru | action Cmplt Report (CCR) - 35S |
| T56-INF1 | 0* 27FEB03A | 15JUL04A | 100 | | | Const Cplt R | prt (CCR) Process-SCL - S35 |
| T56-250010 | 0 21AUG03A | 18SEP03A | 100 | | | ย Regulato | or/Committee Review CCR - 35S |
| T56-250020 | 0 19SEP03A | 15NOV03A | 100 | | | ₪ Incorp/F | Respond to Comments/Issue Draft CCR - 35S |
| T56-250030 | 0 16NOV03A | 15JUL04A | 100 | | | EPA - | State Prepare & Issue Accept Ltr CCR -35S |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|--------------------------|--|--|--------|---|
| Construction Con | npletion Report | | | |
| T56-250040 | o | 15JUL04A | 100 | Project Complete - Section 35 Soil Remediation |
| T56-100000 | 0 07AUG06A | 15FEB07A | 100 | Prep Construction Cmplt Report (CCR) - S |
| T56-100010 | 0 16FEB07A | 09APR07A | 100 | Regulator/Committee Review CCR - S |
| T56-100020 | 0* 10APR07A | 17JUN08A | 100 | Incorp/Respond to Comments/Issue Draft Co |
| T56-100030 | 0 19JUN08A | 02SEP08A | 100 | EPA - State Prepare & Issue Accept Ltr Co |
| T56-INF2 | 0* 07AUG06A | 02SEP08A | 100 | Const Cplt Rprt (CCR) Process - SCL (S35 |
| T56-100040 | 0 | 02SEP08A | 100 | Project Complete - Section 35 Soils I |
| T56-INF | 0* 27FEB03A | 02SEP08A | 100 | Const Cplt Rprt (CCR) Process-35S |
| orth Plants Struc | cture Demolition and | Removal | | |
| Remedial Design | ikkeykeidd Swiff Deill Dwin i Sirwen o Swiff ordewydd Dae'r dae'r dae'r dae'r dae'r dae'r dae'r dae'r dae'r da | 24 25 2 20 24 24 20 24 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26 | | |
| NS2-120000 | 0* 28FEB00A | 09JUN00A | 100 | Prepare / Revise Design Scope of Work - NPST |
| NS2-125000 | 0 31MAR00A | 29APR00A | 100 | Regulator / RMA Committee Review - NPST |
| NS2-122000 | 0 | 31MAR00A | 100 | <<<< Design Scope Deadline >>>>- NPST |
| NS2-130000 | 0* 12JUN00A | 18AUG00A | 100 | Prepare 30% (Conceptual) Design - NPST |
| NS2-140000 | 0* 19AUG00A | 18SEP00A | 100 | Regulator / Committee Rev. & Public Input - NPST |
| NS2-150000 | 0* 21AUG00A | 19DEC00A | 100 | Prepare 60% Design - NPST |
| | 0* 20DEC00A | 23JAN01A | 100 | Regulator / Committee Review - 60% Design - NPST |
| NS2-160000 | | | 100 | Specialized Equip Destruction 95% Design |
| NS2-160000 NS2-150001 | 0* 10JUL00A | 200CT00A | 100 | Specialized Equip Destruction 95% Design |

| Activity ID | Rem Start Dur | Finish | % FYS | 7 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|-------------------|---------------|----------|-------|---|
| Remedial Design | | | | |
| NS2-150003 | 0* 20NOV00A | 18JAN01A | 100 | Specialized Equip Destruction REVISED 95% Design |
| NS2-160101 | 0* 19JAN01A | 17FEB01A | 100 | Reg / Comm Review - REVISED 95% Design NPSED |
| NS2-150002 | 0* 19FEB01A | 12APR01A | 100 | Specialized Equip Destruction 100% Design |
| NS2-160200 | 0 31MAR01A | 29APR01A | 100 | Regulator / Committee Review - 100% Design NPSED |
| NS2-170000 | 0* 20DEC00A | 18APR01A | 100 | Prepare 95% (Draft Final) Design - NPST |
| NS2-175000 | 0 | 18APR01A | 100 | ≅ <<<< <design deadline="">>>>> - NPST</design> |
| NS2-180000 | 0* 19APR01A | 18MAY01A | 100 | □ Regulator / Committee Review - NPST |
| NS2-190000 | 0* 19APR01A | 13JUL01A | 100 | Prepare 100% Design - NPST |
| NS2-110550 | 0* 10MAY04A | 28SEP04A | 100 | Prepare / Review /Approve Volume ESD - NP Soils |
| NS2-INF | 0* 28FEB00A | 28SEP04A | 100 | N. Plants Structure Demo Design |
| Remediation Activ | ities | | 1 | |
| NS4-105200 | 0* 21MAR01A | 10AUG01A | 100 | Mobilization - NP Spec Equip Destruction |
| NS4-130100 | 0 23JUL01A | 10AUG01A | 100 | 0 Agent Air Monitoring - GBEQ |
| NS4-135100 | 0* 23JUL01A | 17AUG01A | 100 | Destruction of Specialized Equipment - GBEQ |
| NS4-116000 | 0* 30JUL01A | 17AUG01A | 100 | 0 Destruction of Standard Equipment - GBEQ |
| NS4-160100 | 0* 10AUG01A | 20SEP01A | 100 | Demobilization - GBEQ |
| NS4-105000 | 0 07AUG01A | 21DEC01A | 100 | Mobilization - NP Structures Demolition |
| NS4-144100 | 0* 27NOV01A | 05FEB02A | 100 | Excavate HH/Biota Soil - NPST |
| NS4-116200 | 0* 12DEC01A | 14MAY02A | 100 | Destruction of Remaining Standard Equipment GBEQ |

| Activity ID | Rem Start Dur | | % FY97 FY98 | FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
|-------------------|------------------|----------|-------------|--|
| Remediation Activ | ities | | | |
| NS4-135200 | 0* 12DEC01A | 14MAY02A | 100 | Destruction of Remaining Specialized Equip GBEQ |
| NS4-140000 | 0 13DEC01A | 13DEC01A | 100 | l Agent Caustic Treatment - NPST |
| NS4-146000 | 0* 13DEC01A | 05FEB02A | 100 | Consolidate Biota Soil to Basin A - NPST |
| NS4-132000 | 0* 31DEC01A | 29APR02A | 100 | Survey Chemical Sewer Lines - NPST |
| NS4-142100 | 0* 31DEC01A | 29APR02A | 100 | Excavate Non-Agent Chemical Sewer - NPST |
| NS4-142000 | 0* 31DEC01A | 02MAY03A | 100 | Excavate Agent Chemical Sewer - NPST |
| NS4-110000 | 0* 03JAN02A | 15MAY02A | 100 | Nonagent Dust and Safety Sampling - NPST |
| NS4-135000 | 0* 03JAN02A | 19FEB03A | 100 | Agent Structures Demolition - NPST |
| NS4-144000 | 0* 09JAN02A | 23JAN03A | 100 | Excavate Agent Soil - NPST |
| NS4-115000 | 0* 14JAN02A | 19DEC03A | 100 | Nonagent Structures Demolition - NPST |
| NS4-125000 | 0* 06FEB02A | 29MAY03A | 100 | Consolidate Other Nonagent Material - NPST |
| NS4-120000 | 0* 08FEB02A | 28JANO3A | 100 | Landfill Sig Contaminated Nonagt Material - NPST |
| NS4-145000 | 0* 08FEB02A | 28JAN03A | 100 | Landfill Agent Demolition Material - NPST |
| NS4-130000 | 0* 01MAR02A | 12DEC02A | 100 | Agent Air Monitoring - NPST |
| NS4-178000 | 0* 18MAR02A | 29APR02A | 100 | BOR6 Support to No. Plants Structures Demo |
| NS4-178500 | 0* 18MAR02A | 29APR02A | 100 | BOR7A Support to No. Plants Structures Demo |
| NS4-150000 | 0* 18MAR02A | 30MAY03A | 100 | Backfill Agt/HH/Biota Areas & Chem Sewers - NPST |
| NS4-155000 | 0* 18MAR02A | 30MAY03A | 100 | Backfill Demo Areas - NPST |

| Activity ID | Rem Start | Finish | % | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|---------------------|----------------|--|-------------------------|--|
| Remediation Activ | vities | | | · |
| NS4-105100 | 0* 20MAY02A | 27MAR03A | 100 | Bldg. 1614 VCS/ GB 3X Decon Mob. |
| NS4-105300 | 0* 31MAR03A | 16APR03A | 100 | Bldg. 1614 VCS/ GB 3X Decon Ops. |
| NS4-142200 | 0* 02APR03A | 29MAY03A | 100 | Excavate Sanitary Sewer - NPST |
| NS4-105400 | 0* 11APR03A | 18APR03A | 100 | Bldg. 1614 VCS/ GB 3X Demob |
| NS4-161000 | 0 | 04JUN03A | 100 | ₩ <<<< <lmp. deadline="" finish="">>>>> - NPST</lmp.> |
| NS4-160000 | 0* 09JUN03A | 11JUN03A | 100 | l Demobilization - NPST |
| NS4-170000 | 0* 21MAR01A | 11JUN03A | 100 | Project Support - North Plants Structure Demo |
| NS4-INF | 0* 21MAR01A | 11JUN03A | 100 | North Plants Structure Demolition |
| Construction Com | pletion Report | as a communication of the second seco | CAMP 02 (21/85) 65 (45) | |
| NS6-165000 | 0 05JUN03A | 12AUG03A | 100 | Prep Construction Cmplt Report (CCR) - NPST |
| NS6-INF | 0* 05JUN03A | 30SEP04A | 100 | Const Cplt Rprt (CCR) Process-NPST |
| NS6-165010 | 0 08AUG03A | 05OCT03A | 100 | Regulator/Committee Review CCR - NPST |
| NS6-165020 | 0 06OCT03A | 30MAR04A | 100 | Incorp/Respond to Comments/Issue Draft CCR-NPST |
| NS6-165030 | 0* 30MAR04A | 30SEP04A | 100. | EPA - State Prepare & Issue Accept Ltr CCR-NPST |
| NS6-165040 | . 0 | 30SEP04A | 100 | Project Complete - North Plants Structure Demo |
| nase IV - Basin F | /Lime Basins | | | |
| Basin F Wastepile | Remediation | | | |
| Predesign Activitie | es | | | |
| WP1-110000 | 0* 08FEB99A | 14NOV00A | 100 | Basin F Treatability Study |
| WP1-INF | 0* 08FEB99A | 31JAN01A | 100 | Basin F Wastepile Treatability Testing |
| WP1-115000 | 0* 07JAN00A | 31JAN01A | 100 | Integrated Conceptual Design |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY1 |
|-----------------|---------------|----------|-----------|--|
| Remedial Design | | | | |
| WP2-120000 | 0 16OCT00A | 05APR01A | 100 | Prepare / Revise Design Scope of Work - BFWP |
| WP2-122000 | 0 | 31JAN01A | 100 | <pre> 5 5 6 6 6 7 7 7 7 8 7 7 8 7 8 7 8 8 8 8 8 8</pre> |
| WP2-125000 | 0 31JAN01A | 01MAR01A | 100 | g Regulator / RMA Committee Review - BFWP |
| WP2-130000 | 0 02MAR01A | 23MAY01A | 100 | Prepare 30% (Conceptual) Design - BFWP |
| WP2-140000 | 0 23MAY01A | 22JUN01A | 100 | Regulator / Committee Review - BFWP |
| WP2-145000 | 0 23MAY01A | 03AUG01A | 100 | Public Input - BFWP |
| WP2-150000 | 0 22JUN01A | 24JAN02A | 100 | Prepare 60% Design - BFWP |
| WP2-160000 | 0 24JAN02A | 22FEB02A | 100 | Regulator / Committee Review - BFWP |
| WP2-170000 | 0 25FEB02A | 01JUL02A | 100 | Prepare 95% Design (Amend Closure Plan) - BFWP |
| WP2-180000 | 0 01JUL02A | 01AUG02A | 100 | Regulator / Committee Review - BFWP |
| WP2-175000 | 0 | 01JUL02A | 100 | <pre><pre></pre></pre> <pre></pre> <pre>Sell to the control of the co</pre> |
| WP2-185000 | 0 24JUL02A | 23AUG02A | 100 | Public Comment 95% Design & Closure Plan - BFWP |
| WP2-184000 | 0 | 24JUL02A | 100 | RAB Presentation of 95% Design (Closure Plan) |
| WP2-190000 | 0 01AUG02A | 07NOV02A | 100 | Prepare 100% Design - BFWP |
| WP2-200000 | 0 08NOV02A | 17DEC02A | 100 | Regulator / Committee Review - BFWP |
| WP2-210000 | 0. | 17DEC02A | 100 | CDPHE Approval of 100% Design & Amendment - BFWP |
| WP2-250000 | 0* 07DEC04A | 02JUN05A | 100 | Revise Basin F WP Remediation Design |
| WP2-INF | 0* 160CT00A | 02JUN05A | 100 | Basin F Wastepile Design |

| Activity ID | Rem Start | Finish | % — Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 | FY11 F |
|-------------------|----------------|---|-------------|---|-----------|
| Remediation Activ | rities | | | | |
| VP4-125000 | 0 30MAR05A | 77 (A) (B) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A | 100 | 類 <<<< <imp. deadline="" start="">>>>> - BFWP</imp.> | |
| VP4-120000 | 0* 30MAR05A | 15JUN05A | 100 | Mobilization - BFWP | |
| WP4-129500 | 0* 24MAY05A | 30JAN06A | 100 | BFWP Drying Fac. Construction (Pre-Excav) | |
| WP4-129000 | 0* 22AUG05A | 31MAR06A | 100 | Site Preparation - BFWP | |
| WP4-162000 | 0* 03APR06A | 17MAY06A | 100 | Odor Control Evaluation/Slow Start - BF | :WP |
| WP4-130000 | 0* 03APR06A | 29JÜN07A | 100 | Excavation of Basin F Wastepile | |
| WP4-140000 | 0* 25OCT06A | 02AUG07A | 100 | Wastepile Backfill - BFWP | |
| WP4-130100 | 0* 14SEP05A | 02AUG07A | 100 | BOR3 Support to Basin F Wastepile - BFWP |) |
| WP4-134000 | 0* 03APR06A | 27JUL07A | 100 | Consolidate BFWP to ELF | |
| WP4-135000 | 0* 10MAR06A | 27JUL07A | 100 | Non-Agent Demolition - BFWP | |
| WP4-150000 | 0* 02JUL07A | 10AUG07A | 100 | □ Demobilization - BFWP | |
| WP4-155000 | 0 | 10JAN08A | 100 | ™ <<<< <imp. deadline="" finish=""></imp.> | ·>>>> - [|
| WP4-170000 | 0* 30MAR05A | 10JAN08A | 100 | Project Support - Basin F Wastepile Rem | |
| WP4-220020 | 0* 02JUL07A | 21AUG08A | 100 | CERT REPORT - BFWP - Part 1 Clos | sure (BFV |
| WP4-030060 | 0* 30JUN08A | 30APR09A | 100 | ESD - Basin F Wastepile - ROD |) Cost Va |
| WP4-INF | 0* 30MAR05A | 30APR09A | 100 | Basin F Wastepile Remediation | |
| Construction Com | pletion Report | 231.7.0 | | | |
| WP6-160000 | 0* 07AUG07A | 07JAN08A | 100 | Prep Construction Cmplt Report | (CCR) - F |
| VP6-160010 | 0* 07JAN08A | 15FEB08A | 100 | ☐ Regulator/Committee Reviev | w CCR - I |

| Activity ID | Rem Start Dur | Finish | % FY97 | FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
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| Construction Com | pletion Report | | | |
| WP6-160020 | 0* 15FEB08A | 22MAY08A | 100 | Incorp Comments & Resubmit © |
| WP6-160030 | 0 23MAY08A | 15JUN09A | 100 | EPA-State Prepare & Issue Accept Ltr CCR- |
| WP6-INF | 0* 07AUG07A | 15JUN09A | 100 | CCR - Basin F Wastepile - Soils Reme |
| WP6-160040 | 0 | 15JUN09A | 100 | Project Complete - Basin F Wa |
| ormer Basin F Pr | rincipal Threat Soil R | emediation | | |
| Predesign Activitie | | | | |
| FS1-100000 | 0* 02APR01A | 06APR05A | 100 | Basin F Solidification Treatability Study |
| FS1-INF | 0* 02APR01A | 06APR05A | 100 | Basin F Solidification Treatability Testing |
| Remedial Design | | | | |
| FS2-120010 | 0* 19AUG05A | 05JAN06A | 100 | Prepare / Revise Design Scope of Work - FBFS |
| FS2-125010 | 0* 01NOV05A | 02DEC05A | 100 | Regulator / RMA Committee Review - FBFS |
| FS2-122010 | 0 | 01NOV05A | 100 | ** <<<< DesignScope Deadline >>>>- FBFS |
| FS2-130010 | 0* 05DEC05A | 28FEB06A | 100 | Prepare 30% (Conceptual) Design - FBFS |
| FS2-140010 | 0* 28FEB06A | 30MAR06A | 100 | Regulator / Committee Rev. & Public Input - FBF |
| FS2-150010 | 0* 31MAR06A | 26JUN06A | 100 | Prepare 60% Design - FBFS |
| FS2-160010 | 0* 27JUN06A | 27JUL06A | 100 | □ Regulator / Committee Review 60% Design - F |
| FS2-170010 | 0* 28JUL06A | 14NOV06A | 100 | Prepare 95% Design (Amend Closure Plan) - |
| FS2-175010 | 0 | 14NOV06A | 100 | <pre> d <!--<-->Design Deadline>>>>> - FBFS </pre> |
| FS2-180010 | 0* 15NOV06A | 16DEC06A | 100 | Regulator / Committee Review 95% Design |
| FS2-175020 | 0* 14SEP06A | 30AUG07A | 100 | Prepare Drying Facility Closure Plan |

| Activity ID | Rem Start | Finish | % | FY97 FY98 FY99 FY00 | FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 F |
|------------------|-------------|----------|-----|---------------------|--|--|
| Remedial Design | | <u>.</u> | | | | |
| FS2-185010 | 0 14DEC06A | 31JAN07A | 100 | | | Public Comment 95% Design & Closure Plan F |
| FS2-190010 | 0* 18DEC06A | 13FEB07A | 100 | | | Prepare 100% Design - FBFS |
| FS2-200000 | 0* 14FEB07A | 16MAR07A | 100 | | | Regulator / Committee Review - FBFS |
| FS2-210000 | 0 | 29MAR07A | 100 | | | CDPHE Approval of 100% Design - FBFS |
| FS2-220000 | 0 09APR07A | 09MAY07A | 100 | | | Closure Plan Amendment Process - FBF |
| FS2-230000 | 0 | 09MAY07A | 100 | | | CDPHE Approval of Closure Plan Amendment |
| FS2-060090 | 0* 09APR07A | 17AUG07A | 100 | | | Basin F Key Cut DCN |
| FS2-250000 | 0 24NOV07A | 20DEC07A | 100 | | | ଣ Basin F DF Closure Plan Approval Pr |
| FS2-250500 | 0 | 20DEC07A | 100 | | | CDPHE Approval of DF Closure |
| FS2-INF | 0* 19AÚG05A | 20DEC07A | 100 | | 3 | Former Basin F Principal Threat Soils Rem Design |
| Remediation Acti | vities | | | | | |
| FS4-125010 | 0 03APR07A | | 100 | | | <<<< <imp. deadline="" start="">>>>> - FB</imp.> |
| FS4-120010 | 0 01MAY07A | 13JUL07A | 100 | | | Mobilization of Principal Threat Soil |
| FS4-130010 | 0* 11JUL07A | 01NOV07A | 100 | | | Excavation of Principal Threat Soil - |
| FS4-130020 | 0* 16JUL07A | 20FEB08A | 100 | | | Consolidation of FBFS to ELF |
| FS4-130030 | 0* 01AUG07A | 20FEB08A | 100 | | | Excavation of Additional HHE Soil - |
| FS4-130040 | 0 27AUG07A | 27MAR08A | 100 | | in the second se | Backfill BFPT Excavation Areas |
| FS4-230235 | 0 17DEC07A | 21MAR08A | 100 | | | Excavate Basin F Key Cut |
| FS4-230236 | 0 04MAR08A | 10MAR08A | 100 | | | I Remove BA-4 TRER Soil - BFP |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 F | 709 FY10 FY11 |
|--------------------------------------|----------------------|----------|--------|---|------------------------|
| Remediation Activ | ities | | | | <u> </u> |
| FS4-230238 | 0 12MAR08A | 12MAR08A | 100 | l Pre-Fina | I Inspection - BFPT |
| FS4-230237 | 0 04APR08A | 14APR08A | 100 | i BA-4 TRI | ER Soil Amendments - |
| FS4-230239 | 0 16APR08A | 16APR08A | 100 | I Final Ins | spection - BFPT |
| FS4-220010 | 0 04APR08A | 16APR08A | 100 | Demobil | ization BFPT Soil |
| FS4-240010 | 0* 01MAY07A | 16APR08A | 100 | Project Support - | Basin F Principal Thre |
| FS4-220030 | 0* 13MAR08A | 01JUL09A | 100 | CERT REPORT - Basin F | PT-Part 2 Closure (P |
| FS4-220020 | 0* 17MAR08A | 24OCT08A | 100 | CERT REPORT-Basin F | PT-Prt 2 Closure-Dryi |
| FS4-040020 | 0* 17APR08A | 29JUL08A | 100 | DSR Pro | ocess - FBPT |
| FS4-225010 | 0 | 24OGT08A | 100 | | nish Deadline>>>>> |
| FS4-INF | 0* 01MAY07A | 24OCT08A | 100 | FIELD-Basin F P | T - Soils Remediation |
| Construction Comp | pletion Report | | | | |
| FS6-230100 | 0 17APR08A | 28AUG08A | 100 | Prep Construction | Cmplt Report (CCR) |
| FS6-230110 | 0 29AUG08A | 13OCT08A | 100 | Regulator/Cor | nmittee Review CCR |
| FS6-230120 | 0* 140CT08A | 12MAR09A | 100 | Incorporate | Comments & Resubm |
| FS6-230130 | 0 13MAR09A | 16JUL09A | 100 | EPA - State Prepare & | Issue Accept Ltr CCR |
| FS6-230140 | 0 | 16JUL09A | 100 | Project Complete - I | Former Basin F Princ. |
| FS6-INF | 0* 17APR08A | 16JUL09A | 100 | CCR - Former Ba | sin F PT - Soils Reme |
| Basin F and Basin Remedial Design | F Exterior Remediati | on | | | |
| FC2-120100 | 0 23AUG99A | 10DEC99A | 100 | Prepare/Revise Design Scope of Work - FBHH | |

| | Activity Rem | | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
|-----|-----------------|-------------|----------|-----------|--|
| | Remedial Design | | | | |
| | FG2-122100 | 0 | 17SEP99A | 100 | <<< <desing deadline="" scope="">>>>-FBHH>>>>- FBHH</desing> |
| | FC2-INF1 | 0* 23AUG99A | 28AUG00A | 100 | Basin F & F Exterior Design - Part I - FBHH |
| | FC2-121100 | 0 17SEP99A | 17OCT99A | 100 | Regulator/RMA Committee - FBHH |
| | FG2-130100 | 0 180CT99A | 10DEC99A | 100 | Prepare 30% (Conceptual) Design - FBHH |
| | FC2-140100 | 0 11DEC99A | 09JAN00A | 100 | Regulator / Committee Rev. & Public Input - FBHH |
| | FG2-150100 | 0 10JAN00A | 10MAR00A | 100 | Prepare 60% Design - FBHH |
| | FC2-160100 | 0 11MAR00A | 09APR00A | 100 | Regulator / Committee Review - FBHH |
| | FC2-170100 | 0 10APR00A | 26MAY00A | 100 | Prepare 95% (Draft Final) Design - FBHH |
| | FC2-175100 | 0 | 26MAY00A | 100 | <><< <cdesign deadline="">>>>> - FBHH</cdesign> |
| | FC2-180100 ··· | 0 27MAY00A | 26JUN00A | 100 | Regulator / Committee Review - FBHH |
| 118 | FC2-190100 | 0 27JUN00A | 28AUG00A | 100 | Prepare 100% Design - FBHH |
| | FC2-120200 | 0 16MAR01A | 28AUG01A | 100 | Prepare/Revise Design Scope of Work - FBSC |
| | FC2-122200 | 0 | 15MAY01A | 100 | < Company of the state of t |
| | FC2-125200 | 0 16MAY01A | 15JUN01A | 100 | Regulator / RMA Committee Review - FBSC |
| | FC2-130200 | 0 18JUN01A | 01JUL02A | 100 | Prepare 30% (Conceptual) Design - FBSC |
| | FC2-140200 | 0 02JUL02A | 30JUL02A | 100 | Regulator / Committee Rev. & Public Input - FBSC |
| | FC2-140250 | 0 25JUL02A | 23AUG02A | 100 | Public Input - FBSC |
| | FC2-150200 | 0 31JUL02A | 22MAY03A | 100 | Prepare 60% Design - FBSC |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 F | FY99 FY00 FY01 FY02 FY03 FY04 F | | Finish % Comp | Rem Start Dur | Activity ID |
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| | | | | | Remedial Design |
| ommittee Review - FBSC | | 100 | JUL03A 100 | 0 23MAY03A | FG2-160200 |
| Design (Amend Closure Plan) - FBSC | Prepare 95% | 100 | DDEC03A 100 | 0 28JUL03A | FC2-170200 |
| esign Deadline>>>>>> - FBSC | 爾 <<< <des< td=""><td>100</td><td>DDEC03A 100</td><td>0</td><td>FC2-175200</td></des<> | 100 | DDEC03A 100 | 0 | FC2-175200 |
| r / Committee Review - FBSC | Regulator | 100 | APR04A 100 | 0 31DEC03A | FC2-180200 |
| quivalent Cover Analysis | RCRA Eq | 100 | 5JUN04A 100 | 0* 12JAN04A | FC2=186220 |
| Comment 95% Design & Closure Plan - FBSC | Public C | 100. | MAR04A 100 | 0 01MAR04A | FC2-185200 |
| esentation of 95% Design (Closure Plan) | RAB Pre | 100 | FEB04A 100 | 0 | FC2-180240 |
| ss Regulator 95% Design Comments - FBSC | Addres | 100 | SEP05A 100 | 0 15APR04A | FC2-180250 |
| Prepare Revised 95% Design - FBSC | | 100 | OCT07A 100 | 0* 13APR07A | FC2-200300 |
| ≌ <<< <design deadline="">>>>>>> - Fi</design> | | 100 | OCT07A 100 | 0 | FC2-175300 |
| Regulator / Committee Review - FBS | | 100 | NOV07A 100 | 0* 190CT07A | FC2-200400 |
| Public Comment Revised 95% Design - Fi | | 100 | NOV07A 100 | 0 190CT07A | FG2-200800 |
| □ Regulator / Committee Review - FE | | 100 | MAR08A 100 | 0* 01FEB08A | FC2-200200 |
| Address Comments/Finalize Design Fi | | 100 | MAR08A 100 | 0* 04MAR08A | FC2-200700 |
| CDPHE Approval of 100% Design - Fi | | 100 | MAY08A 100 | | FC2-210200 |
| re 100% Design - FBSC | Prepar | 100 | MAY08A 100 | 0* 17MAY04A | FC2-190200 |
| BF Closure Plan Amendment Proc | | 100 | MAY08A 100 | 0* 14APR08A | FC2-210400 |
| DPHE Approval of Closure Plan Amendment | | 100 | MAY08A 100 | 0 200 | FC2-210300 |

| Activity ID | Rem Start Dur | Finish % — | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
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| Remedial Design | | | |
| -C2-INF2 | 0* 16MAR01A | 14MAY08A 100 | Basin F & F Exterior Design - Part II |
| FC2-INF | 0* 23AUG99A | 14MAY08A 100 | Basin F & F Exterior Design |
| Remediation Activ | ⁄ities | | |
| FC4-125100 | 0 20DEC01A | 100 | ₩ <<<< <imp. deadline="" start="">>>>> - FBHH</imp.> |
| C4-120100 | 0* 20DEC01A | 08MAR02A 100 | Mobilization HHE Soil Excavation - FBHH |
| C4-141100 | 0* 06MAR02A | 08OCT02A 100 | Excavate HHE Soil - FBHH |
| C4-137100 | 0* 06MAR02A | 08OCT02A 100 | Landfill HH - FBHH |
| FC4-230215 | 0* 08MAR02A | 13SEP02A 100 | Excavate Basin A Biota Soils - FBBS |
| C4-130211 | 0* 08MAR02A | 13SEP02A 100 | Consolidation of Basin A Biota Soil - FBBS |
| FC4-141200 | 0* 17APR02A | 08JAN03A 100 | Excavate CSV Soil - FBHH |
| FC4-176000 | 0* 16JUL02A | 29JAN03A 100 | Topsoil Support to Basin F/Exterior Biota - FBBA |
| C4-176500 | 0* 16JUL02A | 29JAN03A 100 | Topsoil Support Basin F/Exterior HHE Soil - FBHH |
| C4-240100 | 0* 27SEP02Å | 30DEC02A 100 | Backfill HHE Excavation w/Borrow Material - FBHH |
| C4-240210 | 0* 27SEP02A | 30DEC02A 100 | Backfill Basin A Biota Excavat. w/Borrow - FBBS |
| C4-250100 | 0* 18NOV02A | 14FEB03A 100 | Revegetation of HHE Excavations - FBHH |
| C4-250210 | 0* 18NOV02A | 14FEB03A 100 | Revegetation of Basin A Biota Excavation - FBBS |
| C4-290210 | 0* 27JAN03A | 14FEB03A 100 | II Demobilization Basin A Biota Excavation - FBBS |
| C4-291200 | 0 | 24JAN03A 100 | ^{₫₫} <<<< <imp. deadline="" finish="">>>>> - FBBS</imp.> |
| C4-120101 | 0* 24AUG04A | 17SEP04A 100 | © Mobilization Deep Acute Soil Excavation |

| 7 | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY |
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| Remediation Activi | | | | |
| FC4-310099 | 0* 24AUG04A | 07JAN05A | 100 | Deep Acute Soil Excavation - Former Basin F |
| FC4-137101 | 0* 13SEP04A | 23SEP04A | 100 | Landfill Deep Acute Soil Excavation |
| FC4-141101 | 0* 13SEP04A | 23SEP04A | 100 | Excavation Deep Acute Soil Excavation |
| FG4-240101 | 0* 13SEP04A | 23SEP04A | 100 | Backfill Deep Acute Soil Excavation |
| FC4-250101 | 0* 13DEC04A | 17DEC04A | 100 | l Revegetation Deep Acute Soil Excavation |
| FC4-290211 | 0* 07JAN05A | 07JAN05A | 100 | Demobilization Deep Acute Soil Excavation |
| FC4-250220 | 0 14DEC04A | 16DEC04A | 100 | Revegetation of Basin F Biota Excavation - FBBS |
| FC4-290220 | 0 10JAN05A | 11JAN05A | 100 | I Demobilization Basin F Biota Excavation - FBBS |
| FC4-INF1 | 0* 20DEC01A | 07JAN05A | 100 | Basin F & Basin F Exterior HH Rem FBHH |
| FC4-125300 | 0 03APR07A | 127.77 | 100 | at <<<< <imp. deadline="" start="">>>>> - FBGI</imp.> |
| FC4-230225 | 0 25OCT07A | 15FEB08A | 100 | Excavate Basin F Biota Soils - FBBS |
| FC4-130221 | 0* 25OCT07A | 15FEB08A | 100 | Consolidation of Basin F Biota Soil to BF FI |
| FC4-230238 | 0 12MAR08A | 12MAR08A | 100 | Pre-Final Inspection - FBBS |
| FC4-230226 | 0 01APR08A | 14APR08A | 100 | I Apply Soil Amendments - FBBS |
| FC4-230239 | 0 16APR08A | 16APR08A | 100 | l Final Inspection - FBBS |
| FC4-040020 | 0* 26APR08A | 05AUG08A | 100 | DSR Process - FBFE |
| FC4-120300 | 0 28MAY08A | 28JUL08A | 100 | Mobilization & Submittals - Basin F Co |
| FC4-260300 | 0 04JUN08A | 25JUL08A | 100 | Basin F Subgrade Construction |

| Y05 FY06 FY07 FY08 FY09 FY10 FY11 I | FY01 FY02 FY03 FY04 | FY97 FY98 FY9 | Comp | | Dur | ID |
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| | | | SOMEONIC DE LE | - Antonio anto | vicinia della filmazioni i maggioria di la | Remediation Activ |
| BOR4 Support to Basin F/Exterior Cap - F | | | 100 | 07MAY09A | 0* 04JUN08A | FC4-179000 |
| ⊞ Basin F Subgrade Prep - FB\$ | | | 100 | 25JUL08A | 0 04JUN08A | FC4-120400 |
| Basin F BBM Placement - FB | | | 100 | 14NOV08A | 0 02JUL08A | FC4-270500 |
| Basin F Closure Groundwater Mont | | | 100 | 290CT10A | 0* 30JUN08A | FC4-180010 |
| REPORT-2006-2007 Basin F Closure GW-Annu | | | 100 | 09NOV09A | 0* 07JUL08A | FC4-180030 |
| REPORT - 2008 Basin F Closure GW-Annu | | | 100 | 12JAN10A | 0* 09MAR09A | FC4-180040 |
| Basin F Choke Surface - FBS | | | 100 | 14NOV08A | 0 16JUL08A | FC4-270510 |
| BF Cover Dgn DCN Process - Sewer Grouting | | | 100 | 27AUG08A | 0 21JUL08A | FC4-040010 |
| BF Cver Dgn DCN Process - Cover Extension | | | 100 | 10NOV08A | 0 21JUL08A | FC4-040015 |
| ESD - Basin F/F Exterior - Chem | | | 100 | 31DEC08A | 0 01AUG08A | FC4-040018 |
| । Chemical Sewer Test Pitting - | | | 100 | 15AUG08A | 0 15AUG08A | FC4-040016 |
| l Chemical Sewer Grouting | | | 100 | 02SEP08A | 0 29AUG08A | FC4-280410 |
| l Deep Acute HHE Excavation - | | | 100 | 04OCT08A | 0 23SEP08A | FC4-280510 |
| DSR - Basin F/F Exterior - Perimete | | | 100 | 30APR09A | 0* 06OCT08A | FC4-350090 |
| Basin F CBL/Cover Soil/Perimeter GF | | | 100 | 07MAY09A | 0 13OCT08A | FC4-270400 |
| CERT REPORT-Basin F CQAE Rpt Executive Sun | | | 100 | 26FEB09A | 0* 24NOV08A | FC4-400020 |
| Pre-Final Inspection Process | | | 100 | 04MAY09A | 0 12DEC08A | FC4-280210 |
| Basin F Soil Amendments - | | | 100 | 11APR09A | 0 12MAR09A | FC4-280200 |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY | FY01 FY02 FY03 FY04 F | FY99 FY00 | FY97 FY98 | % Comp | Finish | Rem Start Dur | Activity ID |
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| | | | | • | | ies | Remediation Activ |
| Basin F Perm Reveg & Irrigation Setup - FB | | | | 100 | 26JUN09A | 0 09MAR09A | FC4-280400 |
| Basin F Irrigation - FBS | | | | 100 | 04SEP09A | 0 27JUN09A | FC4-290000 |
| CERT REPORT-Basin F/F Exterior-Pt 3 Closure- | | - | | 100 | 29SEP10A | 0* 04MAY09A | FC4-400000 |
| Borrow Area 4 Restorat | | | - | 100 | 15OCT09A | 0 13JUL09A | C4-211115 |
| Basin F Engineering Controls - FB | | | | 100 | 01MAR10A | 0 08SEP09A | FC4-280500 |
| l Final Inspection - FB | | | | 100 | 02MAR10A | 0 02MAR10A | FC4-280420 |
| ่ง Demobilization - Basin F Co | | | | 100 | 19MAR10A | 0 02MAR10A | FC4-290400 |
| REPORT-2009 Basin F Closure GW-Annual Rep | | | | 100 | 01JUL10A | 0 25JAN10A | FC4-180050 |
| <<< FB | | | | 100 | 29SEP10A | 0 | FC4-291400 |
| FIELD-Basin F/F Ext-Part II RCRA-Eq Cover Cor | | | | 100 | 29SEP10A | 0* 04JUN08A: *** | FC4-INF2 |
| & Basin F Ext Rem | Project Support Basin F & Ba | | and the second s | 100 | 29SEP10A | 0* 20DEC01A | FC4-310100 |
| or Remediation | Basin F & Basin F Exterior R | | | 100 | 29SEP10A | 0* 20DEC01A | -C4-INF |
| ESD-Basin F/F Exterior-F | | | | 100 | 10FEB11A | 0* 09AUG10A | FC4-500000 |
| PLAN - Basin F Post Closure P | | | | 75 | 30NOV11 | 93* 15NOV10A | FC4-210000 |
| PLAN - Long Term Care Plan Rev | | | | 80 | 27OCT11 | 61* 20DEC10A | FC4-600302 |
| | | | | | | letion Report | Construction Com |
| ion Cmplt Report (CCR) - FBHH | Prep Construction | | | 100 | 27MAY03A | 0 25JAN03A | FC6-300100 |
| t (CCR) Process-BF Part I | | | | 100 | 21SEP06A | 0* 25JAN03A | FC6-INF1 |
| Committee Review CCR - FBHH | Regulator/ Com | | | 100 | 27JUN03A | 0 27MAY03A | FC6-300110 |

| Construction Com | pletion Report | | | | • | | | , |
|-------------------|-----------------------|----------|-----------------|---------------------------------------|---|---|------------------|---|
| FC6-300120 | 0* 30JUN03A | 17FEB05A | 100 | | | | Incorp/Res | pond to Comments/Issue Draft CCR -FBHH |
| FC6-300130 | 0 17FEB05A | 21SEP06A | 100 | | | | a vilamina i ii. | EPA - State Prepare & Issue Accept Ltr CCR-FBHH |
| FC6-300140 | 0 | 21SEP06A | 100 | | | | | ™ Project Complete - HHE Excavation - FBHH |
| FC6-230100 | 0 17APR08A | 17JUN08A | 100 | | 1 | | | Prep Construction Cmplt Report (CCR) |
| FC6-INF0 | 0* 17APR08A | 09DEC08A | 100 | | | | | CCR - Basin F/F Exterior-Biota Soils Exc |
| FC6-230110 | 0 18JUN08A | 24JÜL08A | 100 | | | : | | Regulator/Committee - Review CCR |
| FC6-230120 | 0* 25JUL08A | 13OCT08A | ···· 100 | | | | | Incorp/Respond to Comments/Issue Draft CCR |
| FC6-230130 | 0 31OCT08A | 09DEC08A | 100 | | | | | EPA/State - Prepare & Iss Accept Ltr CCR |
| FC6-230140 | 0 | 09DEC08A | 100 | | · | | | Project Complete - Basin F |
| FC6-300200 | 0 03MAR10A | 28APR10A | 100 | | | | | Prep Construction Cmplt Report (CCR) |
| FC6-INF2 | 0* 03MAR10A | 25AUG11A | 100 | | | | | CCR - Basin F/F Exterior - RCRA E |
| FC6-300210 | 0 29APR10A | 09JUN10A | 100 | | | | | Regulator/ Committee Review CCR |
| FC6-300220 | 0 10JUN10A | 19AUG10A | 100 | | | | | Incorp/Respond to Comments/Issue Draft CCR |
| FC6-300230 | 0 20AUG10A | 25AUG11A | 100 | | | | | EPA - State Prepare & Issue Accept Ltr CCF |
| FC6-300240 | 0 | 25ÁUG11A | 100 | | | | | Project Complete - Soil Cover |
| FC6-INF | 0* 25JAN03A | 25AUG11A | 100 | | | | Const Cplt Rp | t (CCR) Process- BF II |
| Short-Term Monito | oring/Maintenance/Ope | rations | vygarmannificht | · · · · · · · · · · · · · · · · · · · | | | | |

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| | Basins Soil Remediation | on | |
| Predesign Activiti | Average the Company of the Company o | | |
| LB1-110000 | 0* 12APR99A | 02NOV00A 1 | Lime Basins Treatability Study |
| LB1-010032 | 0* 040CT04A | 24NOV04A 1 | Geophysical Survey |
| LB1-010040 | 0* 040CT04A | 09MAR05A 1 | Geotechnical Drilling |
| _B1-010018 | 0* 23SEP04A | 20OCT05A 1 | Sect. 36 LB & Former Basin F ROD Amendment |
| LB1-210000 | 0* 01FEB05A | 07NOV06A 1 | Lime Basins ROD Amendment/Compatibility Testing |
| LB1-INF | 0* 12APR99A | 07NOV06A 1 | Sect. 36 LB Treatability Study/ROD Amendment |
| Remedial Design | PRINTING PERSON PERSONAL PRINTING THE STREET STREET | | |
| _B2-120000 | 0 080CT01A | 02JUL02A | Prepare / Revise Design Scope of Work - 36LB |
| _B2-INF1 | 0* 08OCT01A | 16JUN04A - 1 | Sec 36 Lime Basins Design (Excav Approach) |
| _B2-125000 | 0* 16MAY02A | 17JUN02A 1 | Regulator / RMA Committee Review - 36LB |
| LB2-122000 | 0 | 16MAY02A 1 | 00 <a><<<< DesignScope Deadline >>>>- 36LB |
| LB2-125100 | 0* 07JUN02A | 06JAN03A .1 | Soil Sampling/Testing and Test Pad Evaluation |
| LB2-130000 | 0* 07JAN03A | 26MAR03A 1 | OD Prepare 30% (Conceptual) Design - 36LB |
| LB2-140000 | 0* 27MAR03A | 28APR03A 1 | Regulator / Committee Rev. & Public Input - 36LB |
| LB2-140500 | 0* 06JUN03A | 16SEP03A 1 | Field Test Pits and Odor Flux |
| LB2-150000 | 0* 02SEP03A | 04NOV03A 1 | DO Prepare 60% Design - 36LB |
| _B2-160000 | 0* 31OCT03A | 01DEC03A | Regulator / Committee Review - 36LB |
| _B2-170500 | 0* 03DEC03A | 16JUN04A 1 | Lime Basins Alternative Remediation Evaluation |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 | FY99 FY00 | FY01 FY0 |)2 FY03 FY0 | 4 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
|-----------------|------------------|----------|--------|-----------|----------------------|--|-------------|--|
| Remedial Design | | | | | | | | |
| LB2-220000 | 0* 08AUG05A | 30DEC05A | 100 | | | | | Prepare / Revise Design Scope of Work - 36 LB |
| _B2-225000 | 0* 01NOV05A | 02DEC05A | 100 | | | | | Regulator / RMA Committee Review - 36LB SW |
| _B2-222000 | 0 | 01NOV05A | 100 | | | | | <<< <designscope deadline="">>>>- 36LB SW</designscope> |
| _B2-230000 | 0* 06DEC05A | 10APR06A | 100 | | | - | · | িজ্ঞা Prepare 30% (Conceptual) Design - 36LB SW |
| LB2-240000 | 0* 11APR06A | 26MAY06A | 100 | | | | | Regulator / Committee Rev. & Public Input - 36 |
| _B2-250000 | 0* 15MAY06A | 16AUG06A | 100 | | endormer a mentra in | | | Prepare 60% Design - 36LB SW |
| _B2-260000 | 0* 17AUG06A | 20SEP06A | 100 | | | | | Regulator / Committee Review - 36LB SW |
| _B2-270000 | 0* 21SEP06A | 13DEC06A | 100 | | | | | Prepare 95% (Draft Final) Design - 36LB S |
| _B2-280000 | 0* 14DEC06A | 24JAN07A | 100 | | | | | □ Regulator / Committee Review - 36LB S\ |
| LB2-175010 | 0 | 14DEC06A | 100 | | | | - | <><< <design deadline="">>>>> - 36LB</design> |
| LB2-290000 | 0* 25JAN07A | 29MAR07A | 100 | | | : | | ₪ Prepare 100% Design - 36LB SW |
| LB2-INF2 | 0* 08AUG05A | 26JUN07A | 100 | | | | | Sec. 36 Lime Basins Slurry Wall Design |
| _B2-27CVR1 | 0 27SEP05A | 08JUN06A | 100 | · . | | | | Prepare 95% (integrate w/ ICSD) Design - LB Cvr |
| LB2-28CVR2 | 0 09JUN06A | 10JUL06A | 100 | ż | | | | agency Review 95% (ICSD) Design - LB Cvr |
| LB2-29CVR3 | 0 09JUN06A | 29SEP06A | 100 | | | | | 100% Design with ICSD - LB Cover |
| B2REVCVR1 | 0 02JAN07A | 03APR07A | 100 | | | The state of the s | | Prepare/Revise 95% ICS Design - LB Cv |
| LB2REVCVR2 | 0 04APR07A | 03MAY07A | 100 | | | | | © Reg. Review Revised 95% ICS Design |
| B2REVCVR3 | 0 30APR07A | 23JUL07A | 100 | | | | | Prepare/Revise 100% ICS Design - L |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 F | FY01 FY02 FY03 FY04 | FY99 FY00 | FY97 FY98 | % Comp | Finish | Rem Start Dur | Activity ID |
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| | | | | 1111 | <u> </u> | <u> </u> | Remedial Design |
| Reg. Review Revised 100% ICS Design - LB | | | | 100 | 23AUG07A | 0 25JUL07A | LB2REVCVR4 |
| Sec 36 Lime Basins Cover Design [ICSD] | | | | 100 | 23AUG07A | 0* 27SEP05A | LB2-INF3 |
| Revise & Submit Final 100% ICS Design - LB | | | The state of the s | 100 | 23OCT07A | 0 24AUG07A | LB2-195113 |
| Reg. Agencies Review R2 100% ICS Design | | | | 100 | 20NOV07A | 0 24OCT07A | LB2-195114 |
| Prepare DCN & Obtain Agency Approval | | | | 100 | 22APR08A | 0 21NOV07A | LB2-195120 |
| emediation Design | Sec 36 Lime Basins Soil Rer | | | 100 | 22APR08A | 0* 080CT01A | LB2-INF |
| *************************************** | · . | | £ | | E-Parini III DERKEU III ARBERKEI III II | ies | Remediation Activi |
| <<<< <imp. deadline="" start="">>>>> - 36L</imp.> | | - | | 100 | | 0 20APR07A | LB4-125010 |
| l Mobilization Slurry Wall | | | | 100 | 07SEP07A | 0* 17AUG07A | LB4-220000 |
| Install Slurry Wall - 36LB | | | - | 100 | 04APR08A | 0* 31AUG07A | LB4-244000 |
| Abandon Monitoring Wells/Fld Investigatin | | | | 100 | 180CT07A | 0 11SEP07A | LB4-270000 |
| l Pre-Final Inspection | | | | 100 | 21FEB08A | 0 21FEB08A | LB4-244010 |
| Install New Monitoring/Dewatering Wells | | | | 100 | 13JUN08A | 0 21APR08A | LB4-290000 |
| l (URS:WD) Metering Bldg Piping Upgrade | | | | 100 | 06JUN08A | 0 28MAY08A | LB4-290020 |
| (URS:WD) Install Piping | | | | 100 | 11AUG08A | 0 10JUN08A | LB4-290010 |
| (URS:WD) Protective Casings for Extraction (| | | | 100 | 25JUN08A | 0 19JUN08A | LB4-290040 |
| l (WD)Pull Elec & Istr Contrl Wiring New Ext | | | | 100 | 07AUG08A | 0 04AUG08A | LB4-290050 |
| (URS:WD) InstI Pumps/FnI Connections/St | | | | 100 | 03APR09A | 0 23FEB09A | LB4-340010 |
| l Install Final Cap over Mon | | | | 100 | 08MAY09A | 0 06MAY09A | LB4-300030 |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY | FY01 FY02 FY03 FY04 FY0 | FY99 FY00 | FY97 FY98 | % Comp | Finish | Rem Start Dur | Activity ID |
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| | | <u> </u> | | | | ies | Remediation Acti |
| l Demobilization Slurry Wall - 36 | · | | | A. 100 | 08MAY09A | 0 08MAY09A | LB4-260000 |
| l Final Inspection - 36LB | | | | Å 100 | 14MAY09A | 0 14MAY09A | LB4-340025 |
| FIELD-Section 36 Lime Basin-Slurry Wall Ir | | | | \ | 08MAY09A | 0* 20AUG07A | _B4-INF1 |
| 36LB (Partial) Subgrade Construct | | - | - : | A 100 | 01AUG08A | 0* 03APR08A | LB4-312000 |
| BOR10 Suppt to 36LB RCRA-Equiv Cover Con | | | | 100 | 23JAN09A | 0* 03APR08A | LB4-312010 |
| l 36LB (Remaining) Subgrade Construct | | | | 100 | 01AUG08A | 0 30JUL08A | LB4-329999 |
| I BBM Placement - 36LB | | | | 100 | 22OCT08A | 0 07OCT08A | LB4-330000 |
| I Install Ph 1 Protective Casings over Mon We | | | | 100 | 22OCT08A | 0* 07OCT08A | LB4-300000 |
| Choke Surface - 36LB | | | | 100 | 24NOV08A | 0 17OCT08A | LB4-331001 |
| Install Ph 2 Protective Casings over Mon We | | | | 100 | 23JAN09A | 0* 17NOV08A | LB4-300020 |
| CBL/Cover Soil/Perimeter GF 36 | | - - | | 100 | 23JAN09A | 0 17NOV08A | LB4-340000 |
| Lime Basins Access Road Construct | | | | 100 | 02MAR09A | 0 05JAN09A | LB4-355010 |
| Soil Amendments - 36LE | | | | 100 | 12MAY09A | 0 05MAY09A | LB4-355000 |
| Perm Revegetation & Irrigation Setup 36 | | | | 100 | 22JUL09A | 0 13MAY09A | LB4-365000 |
| Pre-Final Inspection 36 | | | | 100 | 21MAY09A | 0 21MAY09A | LB4-355001 |
| l Pre-Final Inspection Conference 36 | | THE RESIDENCE OF THE PARTY OF T | | 100 | 23JUL09A | 0 23JUL09A | LB4-355020 |
| CERT REPORT - Section 36 LB - RCRA-Eq Co | | | | 100 | 16NOV10A | 0* 23JUL09A | LB4-190200 |
| Irrigation - 36LB | W. 1999 4. W. F. 1994 10. W. 1994 11. W. 1 | | | 100 | 12SEP09A | 0 25JUL09A | LB4-366000 |

| FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 | FY99 FY00 FY01 FY02 FY03 FY04 | FY97 FY98 | % Comp | Finish | | Activity Re | |
|--|-------------------------------|----------------------|-----------|----------|-------------|-----------------------|--|
| | | | | | | Remediation Activitie | |
| Construct Engineering Controls - 36LB | | | 100 | 02MAR10A | 0 28SEP09A | LB4-189000 | |
| Remove RMA Primary Haul Roads - 36LB | | | 100 | 02MAR10A | 0 010CT09A | LB4-366110 | |
| Pre Final Inspection Engineering Controls - 36LB | | | 100 | 04MAR10A | 0 04MAR10A | LB4-366120 | |
| Final Inspection - 36LB | | | 100 | 21APR10A | 0 21APR10A | LB4-365001 | |
| I Demobilization - 36LB | | | 100 | 30APR10A | 0 21APR10A | LB4-360000 | |
| <<<<< mp. Finish Deadline>>>>> 36LB | | | 100 | 16NOV10A | 0 | LB4-367000 | |
| FIELD-Sect 36 Lime Basin-Subgrade-RCRA Eq Cover | | | 100 | 16NOV10A | 0* 03APR08A | LB4-INF2 | |
| Sec 36 Lime Basin Project Support | | | 100 | 16NOV10A | 0* 20APR07A | LB4-400000 | |
| Sec. 36 Lime Basins Soil Remediation | | | 100 | 16NOV10A | 0* 20APR07A | LB4-INF | |
| | | | | | ion Report | Construction Comple | |
| Prep Construction Cmplt Report (CCR) - 36 B SW | | | 100 | 16JUL09A | 0* 15MAY09A | LB6-180000 | |
| CCR-Sect 36 Lime Basin-Slurry Wall Installation | | | 100 | 06JAN11A | 0* 15MAY09A | LB6-INF1 | |
| Regulator/Committee Review CCR - 36LB SW | | | 100 | 05FEB10A | 0* 17JUL09A | LB6-180010 | |
| EPA-State Prepare & Issue Acpt Ltr CCR-36LB SW | | | 100 | 06JAN11A | 0* 27AUG10A | LB6-180030 | |
| Slurry Wall CCR Complete- Section 36 Lime Basins | | | 100 | 06JAN11A | O. | LB6-180040 | |
| | mm./Issue Draft CCR -36LB SW | Incorp/Respond to Co | 100 | 26AUG10A | 0* | LB6-180020 | |
| PMC - Prep Draft CCR Part I - ICS Lime Basins | | | 100 | 02DEC08A | 0 15SEP08A | LB6-189950 | |
| CCR Part I Draft - ICS Lime Basins | | - | 100 | 12FEB09A | 0* 15SEP08A | LB6-INF0 | |
| Agency-Review Draft CCR Part I - ICS Lime Basins | | | 100 | 12FEB09A | 0 02DEC08A | LB6-189960 | |

| | Activity | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 | FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 |
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| | Construction Co | | <u> </u> | Comp | <u> 1914 II /u> | |
| | LB6-190000 | 0* 01FEB10A | 01APR10A | 100 | | Prep Construction Cmplt Report (CCR)-ICS Covers |
| | LB6-INF2 | 0* 01FEB10A | 26JAN11A | 100 | | CCR - Sect 36 Lime Basin - ICS RCRA-Eq Covers |
| | LB6-190010 | 0* 02APR10A | 13MAY10A | 100 | | Regulator/Committee Review CCR - ICS Covers |
| 111111111111111111111111111111111111111 | LB6-190020 | 0* 14MAY10A | 09SEP10A | 100 | | Incorp/Resp to Comments/Iss Draft CCR-ICS Covers |
| | LB6-190030 | 0 09SEP10A | 26JAN11A | 100 | | EPA/State Prepare/Issue Accept Ltr CCR-ICS Cover |
| | LB6-190040 | 0 | 26JAN11A | 100 | | CCR Complete - ICS Covers |
| | LB6-INF | 0* 15SEP08A | 26JAN11A | 100 | | Const Cplt Rprt (CCR) Process-ICS Covers |
| | Short-Term Mon | itoring/Maintenance/Oper | rations | | | |
| | LB7-500000 | 0* 14SEP09A | 17NOV09A | 100 | | Lime Basins GW Treatment Relocate Support - 36LB |
| | LB7-600000 | 0 21SEP09A | 30NOV10A | 100 | | 36LB Cover-Begin 5 Year Veg. Obs. & Rprt Period |
| | LB7-100000 | 0* 21SEP09A | 30NOV10A | 100 | | <<< Short-Term M&M >>>> - 36LB Cover |
| S | Site-Wide Progra | ims | | | | The state of the s |
| | RCRA Cap Equiv | alency | | 12.000846 1.000846 1.00086 | | |
| | Predesign Activi | ties | | | | |
| | RC1-110000 | 0 03JUN96A | 02MAY97A | 100 | RCRA Cap Equivalency Studies | |
| | RC1-INF | 0* 03JUN96A | 04SEP01A | 100 | RCRA Cap Equivalency | |
| | RC1-111000 | 0 05MAY97A | 12SEP97A | 100 | Agreement on Design/Field Demo | |
| | RC1-112000 | 0 01AUG97A | 30JAN98A | 100 | Develop Final Design on Field Demo | |
| | RC1-113000 | 0* 05JAN98A | 27MAR98A | 100 | Procure Field Demo Contractor | |
| | RC1-114000 | 0* 17MAR98A | 18SEP98A | 100 | Construct Test Covers | |
| | RC1-114100 | 0* 17MAR98A | 18SEP98A | 100 | RCRA Test Covers - Project Support | |

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| r-1 | | | comp | |
| RC1-114500 | 0* 19MAY98A | 31AUG00A | 100 | Establish Vegetative Cover |
| RC1-115000 | 0 01SEP00A | 31AUG01A | 100 | RCRA Cap Testing Period |
| RC1-116000 | Du | | | |
| + Borrow Areas Desig | n; Prep & Closur | e | | |
| | 0 28AUG97A | 30DEC10A | 100 | |
| + Site-Wide Biota Mon | itoring - BAS | | | |
| | 118 11JUN96A | 15FEB12 | 94 | |
| + Site-Wide Air Monito | ring - APA | | | |
| | 0 11JUN96A | 30SEP10A | 100 | |
| + Site-Wide Plume Ma | nagement | | | |
| | 105 11JUN96A | 27JAN12 | 95 | |
| + Confined Flow Syste | m Well Monitori | ng | | |
| | 0* 11JUN96A | 18JAN11A | 100 | |
| + Site-Wide Medical M | onitoring Progra | m | | |
| | 32 06DEC95A | 12OCT11 | 98 | |
| | igement | | | |
| + Remedial Design | | | | Market and the second s |
| | 0 28AUG97A | 27MAY05A | 100 | |
| + Remediation Activities | 60650 AM (0.000 | × May Makenaka kanang ka | | |
| Album Pala Samura (1986) | 0 07SEP05A | 02NOV05A | 100 | |
| + Construction/Operate | receive to a supplication and a construction | | 22/2018/Park/Alexand | |
| | 0 20JUL98A | 31MAY11A | 100 | |
| + Geophysical Investig | Course Communication Communication | | | |
| | 0 23MAR98A | 01FEB99A | 100 | |
| | | | | |

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| | + UXO Emergeno | | | | | |
| | | consequence services de la consequencia de la conse | 29 11 11 11 14 | 100 | | A CONTROL OF THE CONT |
| | | 0 0 10/11/00/0 | 23000 | 100 | | |
| | + Biota Barrier | | | | | |
| | | 0 05DEC00A | 18MAR05A | 100 | | |
| | | | | | | |
| | + Site Wide Reve | egetation & Irrigation | | | | |
| | | | 30DEC11 | 98 | | |
| | | | | 90 | | 855 377 |
| | + Drummed Was | te Planning | | | | |
| | | - Carrier and Carrier Control of the Carrier | 28APR00A | 100 | A CONTRACTOR OF THE CONTRACTOR | A STATE OF THE STA |
| | | | | | | *************************************** |
| | + Site Wide Well | Abandonment | | | | |
| | | 0* 23.JAN02A | 29.II II 05A | 100 | | and the second of the second o |
| | | | | | | |
| V | Vater Treatment | t / Monitorina | The state of the s | 1 | | CHE PERMEMBERALE PRESIDE A SHE CONTROLLE |
| | VALUE OF THE PARTY | | n Distribution | | | |
| + UXO Emergency Response + Biota Barrier 0 05DEC00A 18MAR05A 100 + Site Wide Revegetation & Irrigation 86 03NOV98A 30DEC11 98 + Drummed Waste Planning | | | | | | |
| | Color of Color Color Color Section Color | 0 | 06OCT96A | 100 | | |
| | | | | | 1st Annual SACWSD Payment - SAWH | |
| | SA4-110000 | 0 | 26SEP97A | 100 | | |
| | | | | | 2nd Annual SACWSD Payment - SAWH | |
| | SA4-200000 | 0 | 14AUG98A | 100 | | |
| | | | | | Distribution Line Hookup Complete - SAWH | |
| | SA4-210000 | 0 | 01FFB99A | 100 | | |
| | | | | | Water Supply Under Contract | |
| | SA4-120000 | 0 | 28APR00A | 100 | | |
| | | | | | Final SACWSD Payment - SAWH | |
| | Short-Term Mon | itoring/Maintenance/Ope | erations | | | |
| | SA7-100000 | 0 | | | | |
| | | | | | SACWSD water Supply Program Oversignt | |
| | SA7-200000 | 0 | 28APR00A | 100 | | |
| | | STATEMENT OF THE STATEM | | 100 000000 | SACWSD Water Supply Operationsl | |
| | On-Post Water S | iupply | | | | |
| | | | | | | |
| | OP1-100000 | 0 03JUN96A | 26JAN97A | 100 | Preliminary On-Post Water Evaluation | |
| | | | | | Tommary Office Evaluation | |
| | OP1-110000 | 0 27JAN97A | 23MAY97A | 100 | | |
| | | | | | Develop Freienten Miteriative | |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 |
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| Predesign Activitie | NSANGRADAN TA BERKERAKAN ARMADE A C. | | 3.000.000.000.000 | |
| OP1-120000 | 27JAN97A | 230CT98A | 100 | Environmental Assessment |
| OP1-130000 | 0 260CT98A | 30NOV98A | 100 | Selection of Preferred Alternative |
| OP1-140000 | 0* 01DEC03A | 05OCT04A | 100 | On-Post Wtr Alt. (To Hln Canal) Supply Devip |
| | stem Well Closure | | | |
| Remedial Design | | | | |
| DA2-120000 | 0 02SEP97A | 21JAN98A | 100 | Prepare / Revise Design Scope of Work - DWA |
| DA2-INF 00 | 0* 02SEP97A | 12JAN99A | 100 | Confined Flow System Well Closure Design |
| DA2-122000 | 0 | 22SEP97A | 100 | << DesignScope Deadline >>>- DWA |
| DA2-125000 | 0 23SEP97A | 22OCT97A | 100 | Regulator / RMA Committee Review - DWA |
| DA2-130000 | 0 23OCT97A | 06FEB98A | 100 | Prepare 30% (Conceptual) Design - DWA |
| DA2-150000 | 0 06FEB98A | 06FEB98A | 100 | Prepare 60% Design - DWA (submission waived) |
| DA2-160000 | 0 06FEB98A | 06FEB98A | 100 | Regulator / Committee Review - DWA (NA) |
| DA2-140000 | 0 07FEB98A | 09MAR98A | 100 | Regulator / Committee Rev. & Public Input - DWA |
| DA2-170000 | 0 09FEB98A | 30MAR98A | 100 | Prepare 95% (Draft Final) Design - DWA |
| DA2-175000 | Ó | 30MAR98A | 100 | ≅ <<< <cdesign deadline="">>>>> - DWA</cdesign> |
| DA2-180000 | 0 31MAR98A | 30APR98A | 100 | Regulator / Committee Review - DWA |
| DA2-190000 | 0 11AUG98A | 12JAN99A | .100 | Prepare 100% Design - DWA |
| Remediation Activ | rities | | .k | |
| DA4-125000 | 0 22MAR99A | | 100 | <pre> </pre> Start Deadline>>>>> - DWA |
| DA4-120000 | 0* 22MAR99A | 14JUN99A | 100 | Mobilization - DWA |

| Activity ID | Rem Start Dur | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY | 11 F |
|-------------------|------------------|------------------------------------|-----------|--|------------|
| Remediation Activ | rities | | | | e.urud.bib |
| DA4-270000 | 0* 22MAR99A | 07OCT99A | 100 | Project Support - DWA - Confined Flow System | |
| DA4-INF 00 | 0* 22MAR99A | 07OCT99A | 100 | Confined Flow System Well Closure | |
| DA4-130075 | 0* 28JUN99A | 10AUG99A | 100 | Close Remainning Wells Outside of CRA | |
| DA4-130025 | 0* 27JUL99A | 03SEP99A | 100 | Close Wells Within the CRA | |
| DA4-130000 | 0* 09AUG99A | 08SEP99A | 100 | Close Wells Within South Plants/BEMA | |
| DA4-250000 | 0* 17SEP99A | 07OCT99A | 100 | I Demobilization - DWA | |
| DA4-255000 | 0 | 24SEP99A | 100 | <><< <imp. deadline="" finish="">>>> - DWA</imp.> | |
| Construction Com | pletion Report | | | | · |
| DA6-260000 | 0 08OCT99A | 08DEC99A | 100 | Prep Construction Cmplt Report (CCR) - DWA | - |
| DA6-INF | 0* 080CT99A | 27SEP00A | 100 | Const Cplt Rprt (CCR) Process-DWA | |
| DA6-260010 | 0 09DEC99A | 10JAN00A | 100 | ଣ Regulator/Committee Review CCR - DWA | |
| DA6-260020 | 0 11JAN00A | 07JUL00A | 100 | Incorp/Respond to Comments/Issue Draft CCR-DWA | |
| DA6-260030 | 0 08JUL00A | 27SEP00A | 100 | EPA - State Prepare & Issue Accept Ltr CCR-DWA | |
| DA6-260040 | 0 | 27SEP00A | 100 | Project Complete - Confined Flow System | |
| ondale Containm | | | | | |
| Construction Com | pletion Report | Till Discounty on the state of the | | | |
| IR6-INF2 | 34* 12JAN04A | 30SEP11 | .0 | CCR-Shutdown Motorpool Well Field | |
| IR6-300041 | 0 24MAR11A | 29APR11A | 100 | Agency Review / C | ∃ Comi |
| IR6-300042 | O SERVICE STATE | 09SEP11 | Ó | EPA & State Sign / A _l | pprov |
| IR6-300043 | 5 12SEP11 | 16SEP11 | 0 | Incorporate DD and I | l ssue |

| Activity ID | Rem Start | Finish | % Comp | FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY | 07 FY08 FY09 FY10 FY11 |
|--|-----------------------|---|--|---|---|
| Short-Term Monito | oring/Maintenance/Ope | rations | | | |
| IR7-100000 | 0* 11JUN96A | 01OCT10A | 100 | << <short-term fy10="" i="" monitoring="" ops-thru="">>></short-term> | |
| Basin A Neck Syst | iem . | | | | |
| Remedial Design | | | MAN MANAGEMENT AND | | |
| AN2#200190 | 0* 15DEC08A | 04MAR10A | 100 | DESI | 3N-A-Neck Expansion/Lime Basin Dew |
| Construction/Oper | rations/Closure | est account and a contract of the contract of | | | |
| AN5#200370 | 85* 17MAR10A | 29DEC11 | 0 | A-N | eck Expansion/Lime Basin Dewatering - |
| Construction Com | pletion Report | | | | |
| AN6-730405 | 12 30JUN11A | 08SEP11 | 0 | Prep/S | ubmit Drft CCR to Agencies-A-Neck Ep |
| AN6-INF1 | 127* 30JUN11A | 07JAN12 | Ó | CCR- | Ming. |
| AN6-730410 | 30* 09SEP11 | 08OCT11 | 0 | Regulat | or/Committee Review CCR-A-Neck Exp |
| AN6-730420 | 70* 09OCT11 | 19DEC11 | 0 | Incorp |)/Resp to Comnts/Iss Draft CCR - A-Ne |
| AN6-730440 | 15 20DEC11 | 07JAN12 | 0 | EPA · | State Prep & Iss Accept Ltr CCRA-Ne |
| AN6-730460 | 0 | 07JAN12 | 0 | Proje | ect Comp-LB GW Trtmnt Relocation to A |
| Short-Term Monite | oring/Maintenance/Ope | rations | | | |
| September Sept | | | | | |
| | | y | | | |
| Participated and participated in | | 23.JUN10A | 100 | | |
| | | | | FIELD-Op (| ERCLA Water Treatment System-Mas |
| CE4B100000 | 0 28SEP09A | 30APR10A | 100 | Ops SI | nutdown-Decmng Out of Serv Proc Equ |
| CE4B100020 | 0 28JUN10A | 31AUG10A | 100 | Ops Sht | ₪ dwn-Decmng Mass Removal Proc Equir |
| CE4B100010 | 0* 02AUG10A | 13AUG10A | 100 | Ops | l Shtdn-Decmng Equip/Relocate to A-Ne |
| Short-Term Monito | oring/Maintenance/Ope | erations | | | manorma accompany a salama de manor a company a montre de manorma |
| CE7-100000 | 0* 11JUN96A | 23JUN10A | 100 | Continued CERCLA WWTP Operations | |

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| MR1H100000 | 0 14MAR05A 27J | JUN05A 1 | | Pre-design Investigation-Mass Removal Sys (MRS) |
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| MR2H-INF | o. ///// pop. / | | | Francisco (Control of Control of |
| WRZH-INF | 0* 14MAR05A 31J | JAN06A 1 | | Design of Mass Removal System - MRS |
| Remediation Activiti | oc | | | |
| CALLODS AND DECEMBER AND DESCRIPTION OF THE PARTY OF THE | State of the state | | | |
| MR4H-INF | 0* 15NOV05A 12N | NOV07A 1 | | Mass Removal Systems-Installation/start-up |
| Construction Compl | etion Penort | | | |
| | Beren and the second se | FEDZIA . | | |
| CANCEL CONTROL OF STREET, STRE | 0* 06DEC10A 23F | FEB11A 1 | | Prep Constr Cmplt Report (CCR) -Costr/Ops 1 |
| MR6-730400 | | | | |
| CANCEL CONTROL OF STREET, STRE | | OCT11 | | Trep constrong the port (cont) - costrops - it |

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| Construction Com | pletion Report | | | | | |
| MR6-730410 | 0* 24FEB11A | 07APR11A | 00 | | | Regulator/Committee Review CCR- |
| MR6-730420 | 47* 08APR11A | 130GT11 | 0 | | | Incorp/Resp to Comments/Issue Draft CCR |
| MR6-730440 | 14 140CT11 | 270CT11 | 0 | | | EPA - State Prep & Iss Accept Ltr CCR - |
| MR6-730460 | 0 | 270CT11 | 0 | | | Project Complete - Mass Removal Sys |
| Short-Term Monito | oring/Maintenance/Ope | erations | 188489 | <u>:</u> | | |
| MR71200010 | 0* 24APR06A | | 100 | | | REPORT-Operational Assmnt-Mass Rem Sys FY06-F |
| MR72200010 | 0 03DEC08A | 04FEB10A | 100 | : | | REPORT-Operational Assmt-Mass Removal Sys FY |
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| Remediation Activ | rities | | | -, | | |
| LR4-200000 | December Correct Cor | | | | | |
| LR4-INF | 0* 13JAN09A | 10MAR10A | 100 | | | FIELD-North Plants LNAPL Recvry-Instl/\$ |
| LR40100090 | 0* 11MAR10A | 21APR11A | 100 | | | REPORT-North Plants LNAPL Recovery-Summar |
| Lime Basins DNAI | PL RI/FFS | | | | | |
| Predesign Activiti | es | | doine | | | |
| DN11100060 | | 14MAY10A | 100 | | | Investigation Process-DI |
| Report Preparatio | n | onderstandische State der State | WOOD HATE | | | |
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| Report Preparation | <u>1</u> | | | |
| WTS-300040 | 0 29DEC08A | 09SEP09A | 100 | REPORT-Ready For Re-Use-Off I |
| WTS-300050 | 0* 15JUN09A | 29OCT10A | 100 | |
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| Design Change No | فيمتناه مشمور كترم سميون ومممو المحومونو مسممونين | | 1 | |
| WTZ-100150 | 0* 16FEB09A | 01JUL09A | 100 | DCN-Northern Pathway System Modificati |
|) Off-Post Well Clos | ure | | | |
| Remediation Activ | A STATE OF THE STA | | | |
| OW4-100000 | 0 03JUN96A | 16DEC98A | 100 Evaluatio | n / Closure of Off-Post Wells-S/C Cpl |
| OW4-INF | 0* 03JUN96A | 16DEC98A | 100 Off-Post \ | Well Closure |
| OW4-100010 | nasar O nga | 24NOV98A | 100 | Milestone-Cpl Well Closures & Constr. New Wells |
| OW4-100020 | 0 | 16DEC98A | 100 | Final Inspection Held - Off-Post Well Closures |
| Construction Com | nletion Report | | | |
| OW6-100030 | 0 17DEC98A | 26FEB99A | 100 | Prep Draft Const Cpl Report(CCR)-Off-Post Wells |
| OW6-INF1 | 0* 17DEC98A | 30SEP99A | 100 | Const Cplt Rprt (CCR) Process-Off Post Wells |
| OW6-150100 | 0 27FEB99A | 19MAR99A | 100 | □ Regulator/Committee Review CCR |
| OW6-150200 | 0 20MAR99A | 28JUL99A | 100 | Incorp/Respond to Comments/Issue Final Draft CCR |
| OW6-150300 | 0 29JUL99A | 30SEP99A | 100 | EPA-State Review/Prepare & Issue Acceptance Ltrs |
| OW6-150400 | 0 | 30SEP99A | 100 | Off-Post Well Closure Project Complete |