

DUGWAY PROVING GROUND

Technical Review Committee

- Project Update
 - RCRA Facility Investigation (RFI)
 - **Consent Order Sites**

May 2000



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 2** - 2 trenches, majority of waste removed in 1993
 - **Closure Activities** - fill and cap trenches and excavate contaminated soil (arsenic and dioxin/furans) outside the trench area
 - ☐ **Submit Closure Plan to UDEQ**
 - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
 - Submit 60% Cap Design & RAP**
 - Submit Final Cap Design & RAP**
 - UDEQ Approval of Design and RAP**
 - Start Field Work (estimated for 11/00)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Maintenance & Monitoring Requirements**
 - Enter Post Closure Phase**



•
•
• ***DUGWAY PROVING GROUND***

Technical Review Committee - Consent Order Sites

HWMU 2 Site Photo - Both Trenches and Soil Mound



May 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 33 - Baker Sewage Lagoon**
 - **Closure Activities - remove sludge and concrete spillway, level berms, re-vegetate area**
 - ▣ **Submit Closure Proposal to UDEQ and the Public**
 - ▣ **Submit Draft Work Plan to USACE and DPG**
 - ▣ **Submit Pre-Final Work Plan to UDEQ**
 - ▣ **Submit Final Work Plan**
 - ☑ **UDEQ Approval of Final Work Plan**
 - Start Field Work (estimated for 7/5/00)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Monitoring Requirements**
 - Remove from RCRA Permit**



•
•
• ***DUGWAY PROVING GROUND***

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



May 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 34 - Baker Boiler House Sump**
 - **Closure Activities - excavate approx. 100 cubic yards of sludge, fill and re-grade area**
 - ▣ **Submit Closure Proposal to UDEQ and the Public**
 - ▣ **Submit Draft Work Plan to USACE and DPG**
 - ▣ **Submit Pre-Final Work Plan to UDEQ**
 - ▣ **Submit Final Work Plan**
 - ▣ **UDEQ Approval of Final Work Plan**
 - ▣ **Start Field Work**
 - ☑ **Revise Risk Assessment**
 - Submit Field Report**
 - Remove from RCRA Permit**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 36 - Ditto Imhoff Tank**
 - **Closure Activities - fill tank with pea gravel, remove sludge drying bed and interconnecting piping, additional samples in the ditch**
 - ▣ **Submit Closure Proposal to UDEQ and the Public**
 - ▣ **Submit Draft Work Plan to USACE and DPG (for GW & Soil)**
 - ▣ **Submit Pre-Final Work Plan to UDEQ (for GW & Soil)**
 - ▣ **Submit Final Work Plan (GW)**
 - ▣ **UDEQ Approval of Final Work Plan (Soil)**
 - ☑ **Start Field Work**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Monitoring Requirements**
 - Remove from RCRA Permit**



•
•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 36 Site Photo - Imhoff Tank & Pump House Foundation



May 2000

•
•
• ***DUGWAY PROVING GROUND***

Technical Review Committee - Consent Order Sites

HWMU 36 Site Photo - Tank and Sludge Drying Bed



May 2000

•
•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 36 Site Photo - Ditch leading to Drain Field



May 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 37 - Ditto Landfill, 32-acre site with numerous trenches, waste include laboratory and UXO**
 - **Closure Activities - cap trenches and excavate dioxin contaminated soil outside the trench areas (possible variance to not add additional cover to cells)**
 - ▣ **Submit Closure Plan to UDEQ**
 - ▣ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
 - ▣ **Submit Draft Work Plan to USACE and DPG (for GW & Soil)**
 - ▣ **Submit Pre-Final Work Plan to UDEQ (for GW & Soil)**
 - ☑ **Submit Final Work Plan (for GW & Soil)**
 - UDEQ Approval of Final Work Plan (for GW & Soil)**
 - Start Field Work (estimated for 8/19/00)**
 - Revise Risk Assessment**
 - Submit Field Report & Variance for “No Cover”**
 - Recommend Future Monitoring Requirements**
 - Enter Post Closure Phase**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 37 Site Photo - General Site with Soil Mound in Background



May 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 38 - Ditto Decontamination Pad**
 - **Closure Activities** - some additional characterization remaining for both soil and groundwater, may meet industrial risk assessment
 - ☑ **Submit Closure Proposal to UDEQ and the Public**
 - Submit Draft Work Plan to USACE and DPG (pending contract action)
 - Submit Pre-Final Work Plan to UDEQ
 - Submit Final Work Plan
 - UDEQ Approval of Final Work Plan
 - Start Field Work (estimated for 4/01)
 - Revise Risk Assessment
 - Submit Field Report
 - Recommend Future Monitoring Requirements
 - Remove from RCRA Permit



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 42 - Contractor's Landfill in English Village**
 - **Closure Activities - identify landfill boundary and place soil cap over the waste (boundary investigation in 8/00)**
 - ☐ **Submit Closure Plan to UDEQ**
 - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
 - Submit 60% Cap Design & RAP**
 - Submit Final Cap Design & RAP**
 - UDEQ Approval of Design and RAP**
 - Start Field Work (estimated for 7/01)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Maintenance & Monitoring Requirements**
 - Enter Post Closure Phase**



•
•
• ***DUGWAY PROVING GROUND***

Technical Review Committee - Consent Order Sites

HWMU 42 Site Photo - Asphalt Debris



May 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 43 - 70-acre Landfill in English Village**
 - **Closure Activities - place soil cover over more than 20 trenches in the landfill**
 - ▣ **Submit Closure Plan to UDEQ**
 - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
 - Submit 60% Cap Design & RAP**
 - Submit Final Cap Design & RAP**
 - UDEQ Approval of Design and RAP**
 - Start Field Work (estimated for 8/01)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Maintenance & Monitoring Requirements**
 - Enter Post Closure Phase**



•
•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 43 Site Photo - Typical Trench



May 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 47 - Sewage Lagoons South of Fries Park**
 - **Investigation Activities - Complete nature and extent of contamination investigation in 2 lagoons and drainage area**
 - ▣ **Submit Draft Work Plan to USACE and DPG**
 - ▣ **Submit Pre-Final Work Plan to UDEQ**
 - ▣ **Submit Final Work Plan**
 - ▣ **UDEQ Approval of Final Work Plan**
 - ▣ **Start Field Work**
 - ☑ **Evaluate Risk Assessment**
 - ☑ **Evaluate Remedial Alternatives**
 - ☑ **Submit Nature and Extent Report**



•
•
• *DUGWAY PROVING GROUND*

Technical Review Committee - Consent Order Sites

HWMU 47 Site Photo - East Lagoon



May 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 48 - Fries Park 3X Metal Storage Area**
 - **Closure Activities - Excavate and dispose of PCB contaminated soil (some ABP contamination also)**
 - ▣ **Submit Closure Plan to UDEQ**
 - ▣ **Submit Draft Work Plan to USACE and DPG**
 - ▣ **Submit PCB removal proposal to EPA**
 - ▣ **Submit Pre-Final Work Plan to UDEQ**
 - ☑ **Submit Final Work Plan**
 - ☑ **UDEQ Approval of Final Work Plan (LET 'ER RIP)**
 - Start Field Work (estimated for 10/16/00)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Monitoring Requirements**
 - Remove from RCRA Permit**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 55 - Old 3X Disposal Site East of Carr Facility**
 - **Closure Activities - complete nature and extent investigation, SVE pilot study**
 - ☐ **Submit Closure Plan to UDEQ**
 - ☐ **Submit Draft Work Plan to USACE and DPG**
 - ☑ **Submit Pre-Final Work Plan to UDEQ**
 - Submit Final Work Plan**
 - UDEQ Approval of Final Work Plan**
 - Start Field Work (estimated for 8/23/00)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Evaluate SVE System**
 - Design Soil Cover**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 63-2 - Carr Facility Septic Tank and Leachfield**
 - **Closure Activities - additional soil samples in the leachfield, sample bottom of septic tank, and re-evaluate risk assessment**
 - ☐ **Submit Closure Plan to UDEQ**
 - ☐ **Submit Draft Work Plan to USACE and DPG**
 - ☐ **Submit Pre-Final Work Plan to UDEQ**
 - ☐ **Submit Final Work Plan**
 - ☐ **UDEQ Approval of Final Work Plan**
 - ☑ **Start Field Work (estimated for 7/5/00)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Monitoring Requirements**
 - Remove from RCRA Permit**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 90 - Carr Open Burning Area**
 - **Closure Activities - cap 3 trenches, UXO concern at this site**
 - ▣ **Submit Closure Plan to UDEQ**
 - ☑ **Submit 30% Cap Design & Remedial Action Plan (RAP)**
 - Submit 60% Cap Design & RAP**
 - Submit Final Cap Design & RAP**
 - UDEQ Approval of Design and RAP**
 - Start Field Work (estimated for 8/01)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Maintenance and Monitoring Requirements**
 - Enter Post Closure Phase**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 128 - Pesticide Storage Building, Septic Tank, and Leachfield**
 - **Closure Activities - additional soil samples in the leachfield, remove waste from septic tank, re-evaluate risk assessment**
 - ☐ **Submit Closure Plan to UDEQ**
 - ☐ **Submit Draft Work Plan to USACE and DPG**
 - ☐ **Submit Pre-Final Work Plan to UDEQ**
 - ☑ **Submit Final Work Plan**
 - UDEQ Approval of Final Work Plan**
 - Start Field Work (estimated for 9/28/00)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Monitoring Requirements**
 - Remove from RCRA Permit**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 128 Site Photo - Pesticide Building and Septic Tank



May 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 130 - English Village Gas Station Sump and Drain Field**
 - **Closure Activities - Sump and drain line investigated and removed, soil sampling in drain field area south of road**
 - ▣ **Submit Closure Plan to UDEQ**
 - ▣ **Submit Draft Work Plan to USACE and DPG**
 - ▣ **Submit Pre-Final Work Plan to UDEQ**
 - ▣ **Submit Final Work Plan**
 - ▣ **UDEQ Approval of Final Work Plan**
 - ☑ **Start Field Work (estimated for 7/5/00)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Monitoring Requirements**
 - Remove from RCRA Permit**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

• Groundwater Monitoring

- 15 sites (approx. 80 wells) currently being monitored on a semi-annual basis**
- HWMUs 2, 14, 33, 36, 37, 38, 39, 42, 43, 47, 51, 55, 58, 90, 128**
- FY 00 GW Activities**
 - 1999 CME completed by UDEQ**
 - Responses to 1999 CME Completed by DPG**
 - Nov 99 sampling (HWMU 2)**
 - Feb 00 sampling (all HWMUs), regional GW level**
 - Field Activity Report for Nov & Feb**
 - May 00 sampling (HWMU 2 & 38)**
 - Aug 00 sampling (all HWMUs), regional GW level**
 - Field Activity Report for May & Aug**
 - Final Report for FY 00 by March 1, 2001**

