

•
•
• *DUGWAY PROVING GROUND*

Technical Review Committee

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

November 2000



Technical Review Committee - Consent Order Sites

- **Current Field Work**
 - HWMU 33
 - HWMU 36
 - HWMU 42
 - HWMU 63-2
 - Sump Contents Characterization and Removal (HWMUs 51, 58, 63-1, 128)



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 33 - Baker Sewage Lagoon**
 - **Start:** 11 Sep 00
 - **Completed Activities**
 - MW-01 decommissioned
 - 800' – 4" pipe removed
 - 800' – 8" pipe removed
 - Sludge turned & placed in windrows
 - Berm & sludge sampled – waiting for results



•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

•
•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 33 Site Photo - Baker Sewage Lagoon



November 2000

•
•
• **DUGWAY PROVING GROUND**

Technical Review Committee - Consent Order Sites

- **HWMU 33 - Baker Sewage Lagoon**
 - **Estimated Completion: 30 Nov 00**
 - **Remaining Field Activities**
 - remove pipe through berm
 - remove splash pad
 - transport & dispose of sludge

November 2000



•
•
• **DUGWAY PROVING GROUND**

Technical Review Committee - Consent Order Sites

- **HWMU 36 - Ditto Imhoff Tank**
 - **Start:** 9 Oct 00
 - **Completed Activities**
 - Imhoff Tank - concrete core and sampled
 - pump house and influent sump - sludge sampled
 - eastern ditch sampled
 - water diverted from west to east ditch



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 36 Site Photo - Imhoff Tank & Pump House Foundation



November 2000

•
•
• ***DUGWAY PROVING GROUND***

Technical Review Committee - Consent Order Sites

HWMU 36 Site Photo - Tank and Sludge Drying Bed



November 2000

•
•
• ***DUGWAY PROVING GROUND***

Technical Review Committee - Consent Order Sites

HWMU 36 Site Photo - Ditch leading to Drain Field



November 2000

DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 36 - Ditto Imhoff Tank**
 - **Estimated Completion: 29 Dec 00**
 - **Remaining Field Activities**
 - **sample western ditch**
 - **remove sludge drying bed and waste pile**
 - **remove pump house, influent sump and piping**
 - **fill Imhoff Tank**



•
•
• **DUGWAY PROVING GROUND**

Technical Review Committee - Consent Order Sites

- **HWMU 42 - Contractor's Landfill in English Village**
 - **Start: 11 Sep 00**
 - **Completed Activities**
 - landfill boundary and depth identified
 - 12 trenches completed and backfilled
 - 16 samples collected



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 42 - Test Pits



•
•
• *DUGWAY PROVING GROUND*

Technical Review Committee - Consent Order Sites

HWMU 42 - Test Pits



November 2000

-
-
- ***DUGWAY PROVING GROUND***

Technical Review Committee - Consent Order Sites

HWMU 42 - Test Pits



November 2000

•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 42 - Test Pits



November 2000

•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 42 - Test Pits



November 2000

•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 42 - Test Pits



November 2000

•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 42 - Test Pits



November 2000

•
•
DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

HWMU 42 - Test Pits



November 2000

•
•
• **DUGWAY PROVING GROUND**

Technical Review Committee - Consent Order Sites

- **HWMU 42 - Contractor's Landfill in English Village**
 - **Estimated Completion: 15 Dec 00**
 - **Remaining Field Activities**
 - collect soil gas samples



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 63-2 - Carr Facility Septic Tank and Leachfield**
 - **Start:** 8 Aug 00
 - **Completed Activities**
 - video inspection and sampling of inlet pipe complete
 - septic tank characterized
 - drainfield sampled
 - **Remaining Field Activities**
 - empty and clean septic tank
 - close in-place
 - **Estimated Completion:** Jan 00



•
•
• **DUGWAY PROVING GROUND**

Technical Review Committee - Consent Order Sites

- **Sumps (HWMUs 51, 58, 63-1, 128)**
 - **Completed Activities**
 - **Start: 8 Aug 00**
 - **waste characterized at HWMU 51, 58, and 128**
 - **Remaining Field Activities**
 - **characterize waste at HWMU 63-1**
 - **transport and dispose of waste in all sumps**
 - **Estimated Completion: 15 Dec 00**



•
•
• **DUGWAY PROVING GROUND**

Technical Review Committee - Consent Order Sites

- **Future Field Work**

- HWMU 48
- HWMU 128
- HWMU 130
- Groundwater investigation at HWMU 36, 37, and 38
- Groundwater monitoring



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**
 - Start Field Work (estimated for 1/14/01)**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Monitoring Requirements**
 - Remove from RCRA Permit**



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **HWMU 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 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**
 - Revise Risk Assessment**
 - Submit Field Report**
 - Recommend Future Monitoring Requirements**
 - Remove from RCRA Permit**



•
•
• **DUGWAY PROVING GROUND**

Technical Review Committee - Consent Order Sites

- **Groundwater Investigation - (HWMU 36, 37, 38)**
 - Objectives
 - nature & extent of GW contamination
 - absence of DNAPL
 - confirmation of the confining clay layer
 - monitoring well network evaluation
 - supporting data for “no cover” option at HWMU 37
 - CPTs
 - Hydropunch



DUGWAY PROVING GROUND

Technical Review Committee - Consent Order Sites

- **Groundwater Monitoring**
 - **Reporting**
 - **Field Activity Report for May & Aug**
 - **Final Report for FY 00 by March 1, 2001**
 - **Nov 00 Sampling**
 - **HWMU 38 and regional water levels**
 - **Feb 01 Sampling**
 - **HWMUs 2, 14, 33, 36, 37, 38, 39, 42, 43, 47, 51, 55, 58, 90, 128 (15 sites, approx. 80 wells)**

