ALLIED LANDFILL – OU1
KALAMAZOO, MI
PROPOSED PLAN
Briefing for Rick Karl - February 13, 2013

Proposed Alternative:

- Alternative 2B – Consolidation and Capping of contaminated material onto Bryant HRDLs PRDLs, Former Type III Landfill, and Western disposal areas
  - Monarch Excavated and Consolidated
  - Installation of Groundwater Monitoring System

Background:
Historically, Allied Landfill the largest up-gradient source of PCB contaminated paper residuals to Portage Creek and Kalamazoo River

- Conceptual Site Model
- Contaminants of Concern, PCBs, TAL inorganics, SVOCs
- Contaminated Media at OU1, Paper Residuals/Soils, Sediments, Groundwater & Seeps
- Summary of Site Risks
  - a. Erosion/Runoff and recontamination of Portage Creek /Kalamazoo River
  - b. consumption of fish by recreational and subsistence anglers
  - c. direct contact with PCB contaminated materials by residents, recreational users and construction/utility workers
  - d. inhalation of dust and volatile emissions from PCB contaminated materials

RAO1: Mitigate the potential for human and ecological exposure to materials at Allied Landfill containing COC concentrations that exceed applicable risk-based cleanup criteria.
RAO2: Mitigate the potential for COC-containing materials to migrate, by erosion or surface water runoff, into Portage Creek or onto adjacent properties.
RAO3: Prevent contaminated waste material at the Allied Landfill from impacting groundwater and surface water.

1. Previous Activities – Addressed Greatest Threats
   - a. Bryant Mill Pond TCRA- Excavation and Consolidation
     - i. Stop ongoing contamination of River System
   - b. IRMs
   - c. s

- Consolidation and Capping
  - Move Monarch
  - Excavate and Consolidate Out-lying Areas

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- Pull Back Edge of Landfill
- Remove Portions of Sheetpiling
- Cap with FML
- Installation of Monitoring System
  - Create Clean Setback – GSI

Risk Based Approval Consult – Memo sent 10/26/12

1. Cap Layers
2. Residential Cleanup Level

Issues

1. Cap Layers
2. Residential Cleanup Number
3. Mercury monitoring
4.

Alternatives in EPA's FS Report:

Alternative	Description	Cost
1	No Action	$0
2A	Consolidation and capping of existing landfill. Cutting and limited removal of sheet pile. Contamination east of Portage Creek consolidated. Monarch left in place.	$36 M
2B	Consolidation and capping of existing landfill. Cutting and limited removal of sheet pile. Contamination east of Portage Creek consolidated. Monarch consolidated into main landfill.	$35 M
2C	Consolidation and capping of existing landfill. Cutting and limited removal of sheet pile. Contamination east of Portage Creek consolidated. Monarch consolidated into main landfill. Off-Site Incineration of material >500 ppm (excavated areas)	$50 M
3	Excavation and off-site disposal of contaminated material	$238 M
4	Encapsulation landfill	$139 M

Alternatives 2A and 2B include additional groundwater management components.

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