

## **Declaration for Record of Decision**

**Statutory Preference for Treatment as a  
Principal Element is met  
and Five Year Site Review is Required**

### **Site Name and Location**

New Jersey Zinc / Mobil Chemical National Priorities List Site  
DePue, Illinois  
ILD062340641

### **Statement of Basis and Purpose**

This decision document presents the selected remedial action for the New Jersey Zinc / Mobil Chemical National Priorities List (NPL) site, in DePue, Illinois, which was chosen in accordance with CERCLA, as amended by SARA and, to the extent practicable the National Contingency Plan. This decision is based on the administrative record file for this site.

The United States Environmental Protection Agency concurs with the selected remedy.

### **Assessment of the Site**

The response action selected in this Interim Action Record of Decision (ROD) is necessary to protect the public health or welfare or the environment from actual or threatened releases of hazardous substances into the environment.

### **Description of the Selected Remedy**

This operable unit is an interim action for the site. Adjacent operable unit RODs will address any residual sediment contamination, groundwater contamination and discharges of contaminated groundwater discharge to surface water. This interim action addresses the principal threat at the South Ditch Operable Unit by removal of metals contaminated unnatural sediment with containment of that sediment on-site pending selection of final remedies for higher quantity operable units with similar but less mobile contaminants. The actions detailed in this Interim Action ROD will prevent further migration of contaminants to receiving surface water bodies, stabilize the unnatural sediment in a Corrective Action Management Unit reducing the exposure potential to human and sensitive ecological receptors, and maintain the high concentration metals containing sediment in a discrete unit. A final remedy will be selected for the unnatural sediment which is consistent with / complementary to remedies for other operable units at the site containing much larger quantities of similar material; resource recovery (redirection of the waste to metals reclamation technologies) will be considered during selection of remedies for those other Operable Units and the unnatural sediment has the potential to be included in that resource recovery. As on-site containment is a key component of the remedy long-term management and monitoring of the site will be required.

The key components of the Selected Remedy are as follows:

- Treatability Studies to determine appropriate admixtures and dosage rates to achieve adequate contaminant removal from discharge water streams; retention (settling) time required in decant basins., assessment of physical treatment enhancements likely to assist in to meeting discharge criteria (i.e. high volume sand filtration); pilot evaluations of mechanical techniques for high solids sediment removal; physical stabilization and chemical fixation agents, mixing rates and curing times required prior to placement of sediment in the Interim Containment Cell; and silt fence material selection, placement and maintenance frequency;
- Construction of settling basins (decant ponds);
- Construction of an interim containment cell where the bottom and sidewalls of the cell will generally consist of a graded layer of low-permeability soil, a synthetic impermeable liner and an aggregate drainage layer under the stabilized unnatural sediments;
- Hydraulic and / or mechanical dredging of unnatural sediments;
- Dewatering, stabilization and finally placement of the stabilized unnatural sediment into the interim containment cell;
- Construction of a solid waste cap over the interim containment cell;
- Monitoring and maintenance for the interim containment.

### **Statutory Determinations**

**Statutory Requirements** - The Selected Remedy is protective of human health and the environment, complies with Federal and State requirements that are applicable or relevant and appropriate to the remedial action, is cost-effective, and utilizes permanent solutions and alternative treatment (or resource recovery) technology to the maximum extent practicable.

**Statutory Preference for Treatment** – The interim remedy for this OU satisfies the statutory preference for treatment as a principle element of the remedy.

**Five-Year Review Requirements** - Because this remedy will result in hazardous substances, pollutants, or contaminants remaining on-site above levels that allow for unlimited use and unrestricted exposure, a statutory review will be conducted within five years after initiation of remedial action to ensure that the remedy is, or will be, protective of human health and the environment.

### **Interim Action ROD Data Certification Check List**

The following information is included in the Decision Summary section of this Interim Action Record of Decision. Additional information can be found in the Administrative Record file for this site.

- Chemicals of concern and their respective concentrations (Table 1)
- Screening level risk represented by the chemicals of concern (Baseline Risk Assessment deferred to final RI of surrounding OUs). (Table 2)
- Cleanup levels established for chemicals of concern and the basis for these levels. (Section VIII)
- How source materials constituting principle threats are addressed. (Section XII)
- Current and reasonably anticipated future land use assumptions and current and potential future beneficial uses of ground water used in the Screening Level risk assessment and ROD. (Section VI)
- Potential land and groundwater use that will be available at the site as a result of the Selected Remedy. (Section VII)
- Estimated capital, annual operation and maintenance (O&M), and total present worth cost, discount rate, and the number of years over which the remedy cost estimates are projected. (Section IX)
- Key factor(s) that led to selecting the interim remedy (i.e. describe how the Selected Remedy provides the best balance of tradeoffs with respect to the balancing and modifying criteria, highlighting criteria key to the decision). (Section X)



Renee Cipriano  
Director

Illinois Environmental Protection Agency

OCT 03 2003



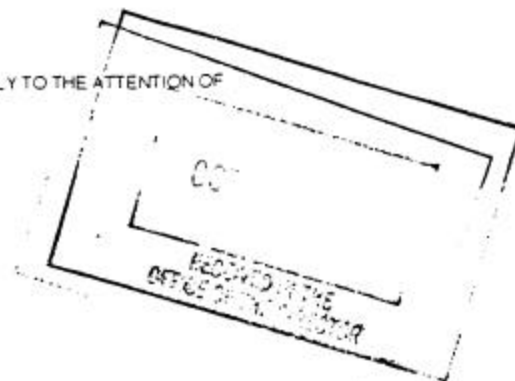
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SF/Tech

OCT 08 2003

Renee Cipriano, Director  
Illinois Environmental Protection Agency  
1021 N. Grand Avenue East  
Springfield, Illinois 62702

REPLY TO THE ATTENTION OF



**Re: Record of Decision for New Jersey Zinc/Mobil Chemical Site in DePue, Illinois**

Dear Ms. Cipriano:

The U.S. Environmental Protection Agency (USEPA) has reviewed the Record of Decision (ROD) and the Responsiveness Summary prepared for the South Ditch Interim Action at the above-referenced Site that was prepared by the Illinois Environmental Protection Agency (IEPA). The USEPA also reviewed the Proposed Plan and attended the Public Meeting about this Proposed Plan on October 9, 2002.

The USEPA concurs with the IEPA in selection of Alternative #4B - Removal of Unnatural Sediment with on-site stabilization and consolidation as an Interim Action at the Site. As noted in the ROD, several permits, certifications or waivers may be required to implement the selected remedy.

We look forward to continuing to work with your agency on this Site in the future. If you should have any questions about this matter, please contact Wendy Carney at (312) 353-6553.

Sincerely,

William E. Muno, Director  
Superfund Division