DEMO PARTNERS TO HOLD PUBLIC MEETING ON DECEMBER 7 TO PRESENT
REMEDIAL DESIGN FOR FORMER WEST KINGSTON TOWN DUMP/URI
DISPOSAL AREA IN SOUTH KINGSTOWN

PROVIDENCE - The Department of Environmental Management, in cooperation with
the US Environmental Protection Agency, the University of Rhode Island, and the Towns of
South Kingstown and Narragansett, will hold a public meeting on Tuesday, December 7 to
present the remedial design for the West Kingston Town Dump/URI Disposal Area Superfund
Site in South Kingstown. Results of recent field activities conducted at the site will also be
presented at the meeting.

The field activities were required to complete the engineering design plans, and will also
aid in the issuance of a Record of Decision by EPA. The activities included test pits, landfill gas
monitoring, soil sampling, residential well sampling, survey work, installation of groundwater
monitoring wells, surface water and sediment sampling. Information from the work has been
used to engineer the final design of the multi-layer hazardous waste cap.

The December 7 public meeting will be held at 7 p.m. in the South Kingstown Town
Council Chambers at 180 High Street in Wakefield. Additional public meetings will be held
periodically during the remedial action to provide the community with updates on progress being
made at the Site.

The site is located in an abandoned sand and gravel quarry, which was used as a
municipal and URI landfill from 1945 to 1978. In addition to receiving municipal solid waste,
industrial wastes from local industries were also disposed of at the site. Disposal of these wastes
led to contamination of groundwater in and around the site. The site was placed on EPA's

Individuals with questions about the West Kingston Town Dump/URI Disposal Area
Superfund Site may call or email Gary J. Jablonski in DEM's Office of Waste Management at
222-2797 ext. 7148, or gary.jablonski@dem.ri.us; or Anna Krasko in EPA's Office of Site
Remediation & Restoration, at (617) 918-1232, Toll Free at (888) 372-7341, or
krasko.anna@epa.gov; or Sarah White in EPA's Region 1 Office, at 617 918-1026, or
white.sarah@epa.gov.
Public Meeting:
Former West Kingston
Town Dump/URI Disposal Area
Remedial Design

South Kingstown Town Hall
December 7, 2004

Presentation Outline

- Purpose of Meeting
- Site Background and History
- Superfund and the Presumptive Remedy Process
- Recently Completed Field Activities
- Presentation of the Proposed Landfill Closure Design
- Next Steps

Purpose of this Meeting

1. To provide the public with information about the continuing investigation at the landfill and to outline the proposed landfill cap design
2. To provide the public with a forum for public comment on the proposed remedial action at the site
3. To receive comments from the public for consideration in the final design
Site Background and History

- 1930s and 1960s – Area used as sand and gravel borrow pit
- 1951 -1978 – Towns of South Kingstown and Narragansett and URI use area for solid waste disposal
- 1978 – Town Disposal Area closed
- 1981 – URI Disposal Area closed
- 1983 to 1985 – URI operates transfer station
Presumptive Remedy Process

- To facilitate expedited closure of municipal landfills, EPA has developed a *Presumptive Remedy* process
- Allows PRPs to move forward with solid waste closure, reducing administrative costs and schedule
- South Kingston/URI Landfill will be closed under the EPA Presumptive Remedy

Regulatory Interactions - EPA/RIDEM

- RIDEM
  - RIDEM is lead agency for this site
- EPA
  - EPA provides funding to RIDEM Superfund Division
  - Represents the federal government’s interests

Remedial Investigation

- August 2001 - EPA and RIDEM enter into agreement between agencies for RI/FS
- October 2001 - RIDEM issues Letter of Responsibility to PRPs to conduct RI/FS investigations
- Phase 1 - Investigation completed fall/winter 2003
- Phase 2 - Investigation completed Fall 2004
Remedial Field Investigation – Phase 1

- Phase 1 RI field investigation included:
  - 67 groundwater samples
  - 24 test pits
  - 6 surface soil samples
  - 12 surface water samples
  - 10 subsurface soil samples
  - 4 landfill gas samples

Remedial Field Investigation – Phase 2

- Phase 2 RI field investigation included:
  - 14 new groundwater monitoring wells
  - 1 surface water and sediment sample collected at Hundred Acre Pond
  - 12 pore water samples collected near Hundred Acre Pond

Site Plan with Groundwater Plume
Remedial Action

- Landfills will be closed under the *Presumptive Remedy – Landfill Capping*
### Presumptive Remedy - Landfill Closure

**Construction Sequence**
- Erosion and Sediment Controls
- Site Clearing
- Subgrade Layer
- Landfill Gas Controls & Bedding Layer
- Bottom Low Permeability Layer
- Top Low Permeability Layer
- Lateral Drainage Layer & Sub-Drain System

### Presumptive Remedy – Landfill Closure (Construction Sequence)

- Vegetative Support/Frost Protection Layer
- Topsoil Layer
- Surface Drainage Controls
- Hydroseed and Erosion Control Blanket
- Site Roads
- Fencing and Miscellaneous Items

### Construction Documents

- Construction Drawings
- Waste Excavation and Consolidation Plan
- Construction QA/QC Plan
- Technical Specifications
Design Report

- HELP Model
- Slope Stability
- Settlement
- Frost Depth Penetration
- Soil Loss
- Drainage Layer Capacity
- Landfill Gas Generation and Venting
- Watershed Analysis
- Channel Sizing
- Channel Lining
- Sedimentation Basin
- Detention Basin
- Outlet Protection
- Water Quality

Next Steps:
Where do we go from here?

- 2005
  - PRPs will be completing the RI/FS
  - PRPs will start construction of the cap in summer
  - Cap construction will be completed by year’s end
- EPA and RIDEM will concur on final remedy for site