

## Site Redevelopment Profile

# Rose Hill Regional Landfill Superfund Site

Rose Hill Road, South Kingstown, Rhode Island 02880

### Property Overview

#### Size

70 acres

#### Current Site Uses

- South Kingstown operates an active solid waste transfer facility.
- Kearsarge Energy operates a solar array on site.

#### Use Restrictions

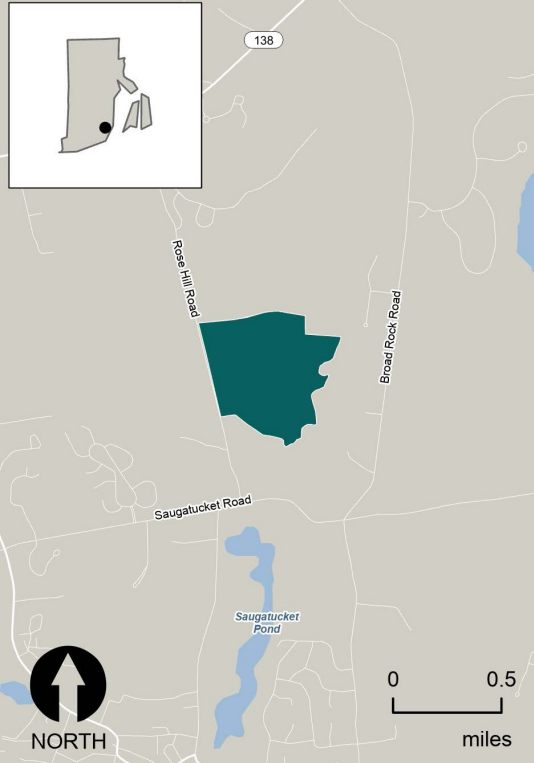
- Excavation, remedy interference, installation of groundwater wells and use of site groundwater are prohibited.

#### Surrounding Population

**2,589**  
1 MILE

**29,119**  
3 MILES

**43,012**  
5 MILES



Location of the site in Rhode Island.

### Site History and Redevelopment Timeline

#### 1967-1983

South Kingstown operated a waste disposal facility on site.

#### 1983

South Kingstown built and began operating a solid waste transfer station on site.

#### 1989

EPA placed the site on the NPL.

#### 1999

EPA selected the final remedy for the site.

#### 2008

Towns of South Kingstown and Narragansett completed construction of remedial components.

#### 2015

South Kingstown Solar Consortium put out a request for proposals for potential solar facilities around the town, including the Rose Hill Regional Landfill site.

#### 2017

Kearsarge Energy won the contract and began construction of the solar array on site.

#### 2018

Kearsarge Energy completed construction of the solar array on site and began its operation.

## History and Cleanup

The Rose Hill Regional Landfill Superfund site covers 70 acres in a predominantly residential and agricultural area in South Kingstown, Washington County, Rhode Island. It includes the area where the town of South Kingstown operated a waste disposal facility from 1967 until 1983. EPA placed the site on the Superfund program's National Priorities List (NPL) in 1989 because of contaminated groundwater, surface water, soil, sediment, landfill gas and leachate that resulted from waste disposal operations.

Following site investigations, the towns of South Kingstown and Narragansett led cleanup activities with EPA and state agency oversight. The municipalities extended municipal water to homes with contaminated wells, installed gas alarms for nearby homes, relocated one residence, consolidated landfill areas, installed a landfill cap and landfill gas destruction system, and implemented land use restrictions. Cleanup construction was completed in 2008. In 2010, the municipalities installed an active landfill gas destruction system to eliminate migration of landfill gases off site. Regular reviews of the site's cleanup approach by EPA have found that the remedy continues to protect people and the environment from remaining site contamination.

Today, monitoring of surface water, landfill gas and groundwater continue, as well as operation and maintenance activities.

the Rose Hill Regional Landfill site. Kearsarge Energy provided the most favorable proposal and began construction of the solar array in fall 2017.

Construction of the solar array finished in spring 2018. It occupies 20 acres of the site and has an estimated capacity of 4.7 megawatts of direct current. The solar array is in accordance with site land use restrictions and is on the landfill cap. It came at no cost to the municipalities and 25 percent of the power generated will be sold back to the municipalities. All municipal buildings in both towns, including the school districts, have access to power generated at the solar facility.



Aerial view of the solar arrays at the site. (Source: Photo courtesy of Kearsarge Energy).

## Redevelopment

Land use restrictions are currently in place on the landfill and restrict excavation, remedy interference, installation of groundwater wells and use of site groundwater. The site is currently in use as a solid waste transfer station and active solar array. Since 1983, South Kingstown has operated a solid waste transfer station on site. Operations include unloading municipal waste from collection trucks and transferring it to vehicles that take it to the Johnston Landfill off site. In 2015, South Kingstown officials and residents formed the South Kingstown Solar Consortium and put out a request for proposals for potential solar facilities around the town, including

## Contacts

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