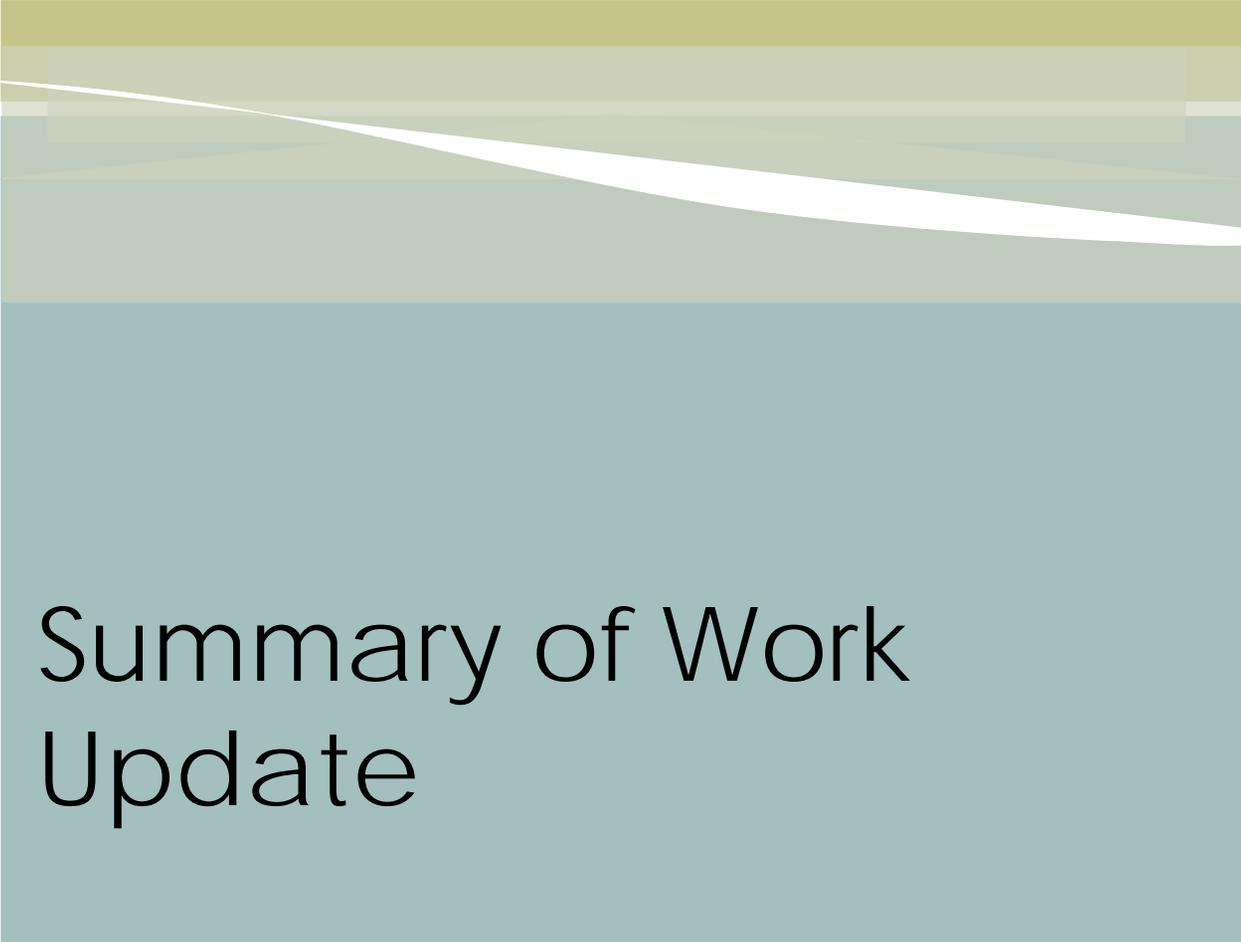


Keegan Landfill Technical Update

NJSEA Board Meeting
July 18, 2019

SCS ENGINEERS



Summary of Work Update

SCS ENGINEERS

- June 18 – Resolution for Construction Contractor
- June 24 – Contractor begin mobilization to the site
- June 27 - Solid Waste Disruption Permit issued
- June 28 - Air Permit issued
- June 28 – Survey layout
- July 1 – begin excavation of horizontal collectors
- July 16 – begin excavation of header trench



Construction Schedule

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Updated GCCS Construction Schedule

Activity	Approximate Duration	Start Date
Mobilization	5 days	June 24
Horizontals (5 installed)	13 days	July 1
Piping installation	46 days	July 16
Vertical Well Drilling	10 days	July 29 (tentative)
Flare Skid Installation	3 days	September (tentative)
System startup	2 days	September 16 (tentative)

- Ahead of ACO schedule to submit proposal by September 30, if requested



Landfill Gas Collection and Control System

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Gas Collection and Control (GCCS) System

- Vertical gas extraction wells
 - Drilled into waste mass
- Horizontal collectors
- HDPE laterals and headers
- Blower to extract gas from the wells
- Flare to combust collected gas
- Goal: Maximize LFG collection to reduce odors

Horizontal Collectors

- Approximately 2300 linear feet installed
- Production of 200 lf/day
- Solid and perforated pipe

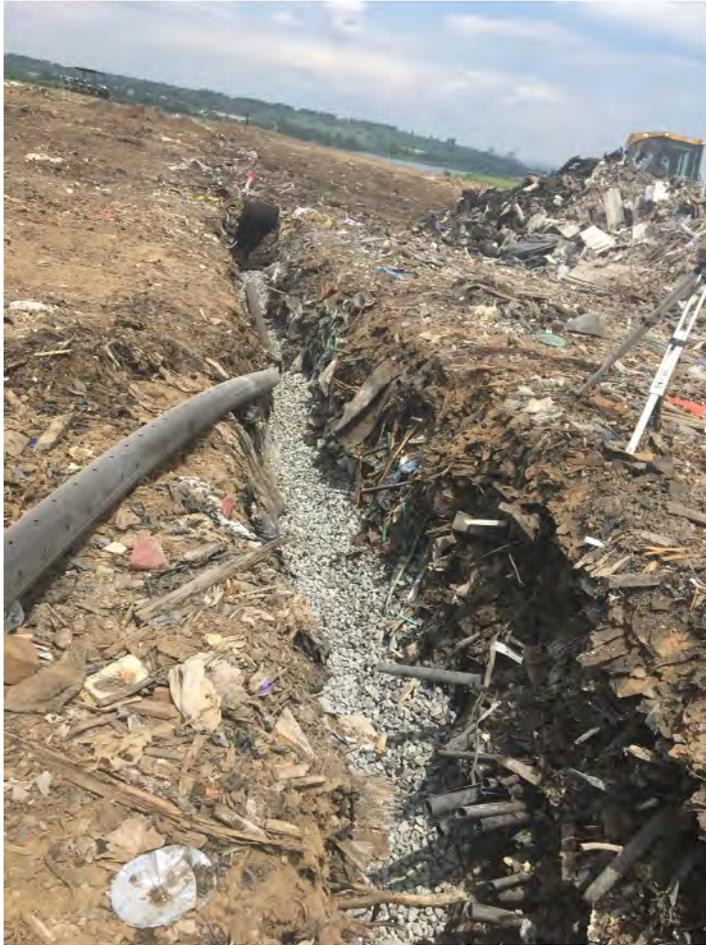
Trenching for Horizontal Collector



Placement of Solid Pipe



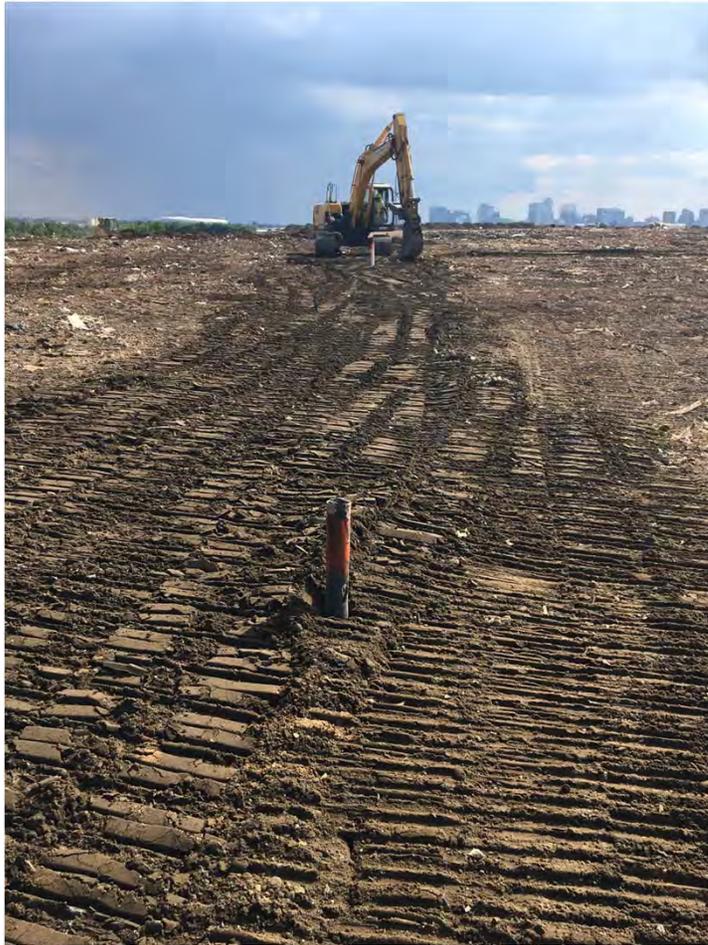
Perforated Pipe placement with stone backfill



Geotextile over stone



Backfill with waste and soil



Waste not placed back in trench, hauled to fill area and covered with soil



Plastic tarp covers end of trench at end of work day



Odor Neutralizer regularly applied to trench & waste



4 Gas Meter used for Worker Safety





Odor Control Plan

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Odor Management During Construction

- During Hours of Construction
 - Hourly checks of Monitoring Station Data
 - Neighborhood Monitoring route
 - Before, midday and end of construction day
- No exceedances of 30 ppb for 30 minutes at any station
- No neighborhood odors detected
- NJDEP reported increased inspectors presence
 - No odors detected



Publically Available Updates

SCS ENGINEERS

www.njsea.com



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KEEGAN LANDFILL INFORMATION & UPDATES

Updated NJSEA Statement

This webpage will provide ongoing updates on the measures that NJSEA will take to resolve the issues concerning hydrogen sulfide (H₂S) emissions from the Keegan Landfill in Kearny, New Jersey and the resulting intermittent odors. To be clear, the NJSEA is aggressively pursuing a thorough and efficient resolution to this issue.

As set forth in the Administrative Consent Order (ACO) with the NJDEP, the NJSEA has installed eight monitors around the perimeter of the landfill and is collecting data from these monitors that is reported to the NJDEP, the Town of Kearny and is posted on this website for review by the public. The data that is posted is the raw data from the monitors, which is subject to review and validation by the NJDEP. It is important to note that several of the monitors are not located at the property line. Therefore, exceedances at those monitors do not necessarily constitute a violation of the NJDEP ambient air regulations,

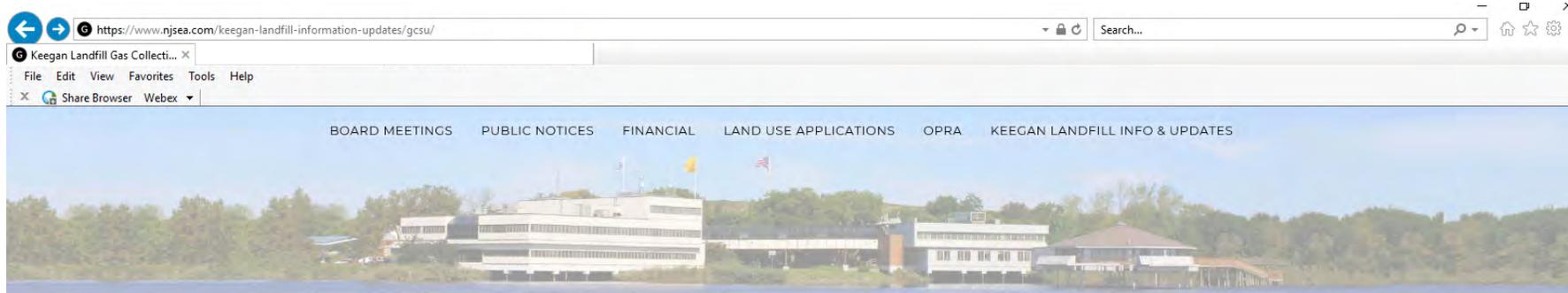
Documents

Frequently Asked Questions

- [Administrative Consent Order \(ACO\)](#)
- [NJDEP Keegan Landfill Fact Sheet](#)
- [Monitoring Action Plan – Keegan Sanitary Landfill](#)
- [Keegan Landfill ACO Progress Reports](#)
- [Surface Emissions Monitoring Report – May 3, 2019](#)
- [Surface Emissions Monitoring Report – March 26, 2019](#)
- [Ambient Air Monitoring Report](#)
- [Leachate Seep Repair Monitoring Report](#)
- [Court Documents](#)
- [Historical Rainfall Data – Newark Airport](#)
- [Keegan Landfill Daily Air Monitoring Reports](#)
- [Keegan Landfill Gas Collection System Construction Updates](#)
- [Keegan Landfill Technical Update: Landfill Gas Collection and Control System – June 20, 2019](#)
- [NJDEP Hydrogen Sulfide Fact Sheet](#)
- [OSHA Letter to NJSEA – March 7, 2019](#)



Weekly Construction Activities



KEEGAN LANDFILL GAS COLLECTION SYSTEM CONSTRUCTION UPDATES

[Weeks of June 24 and July 1](#)

[Week of July 8](#)

[Week of July 15](#)

QUICK CONTACT

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Lyndhurst, NJ 07071
Admin Offices: 201.460.1700
Emergency Hotline: 866.927.6416

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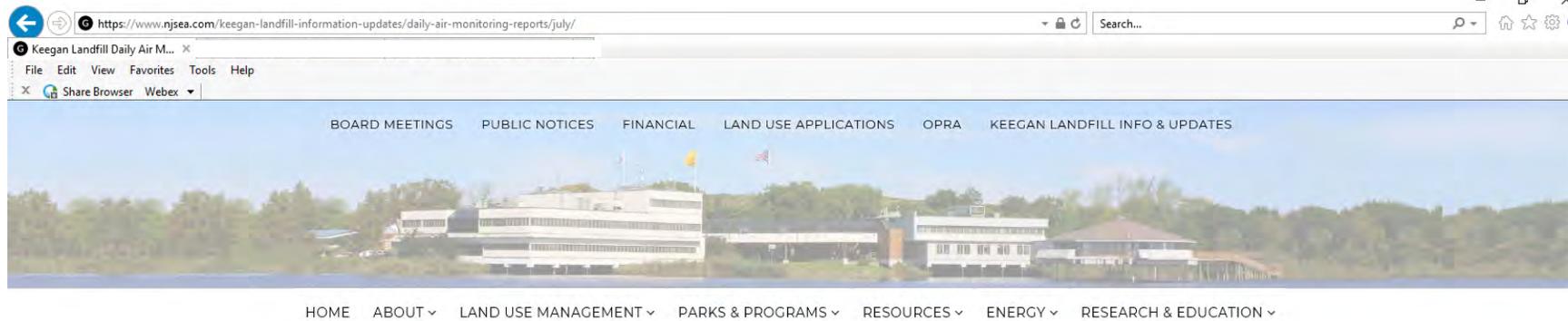
RELATED SITES

- > Meadowlands Liberty Convention & Visitors Bureau
- > Meadowlands Regional Chamber of Commerce
- > Meadowlands Conservation Trust
- > State of New Jersey
- > NJDCA
- > OPRA

RESOURCES

- > Monthly Meetings
- > Public Bids and Notices
- > Financial Information
- > Land Use Applications

Daily Air Monitoring Reports

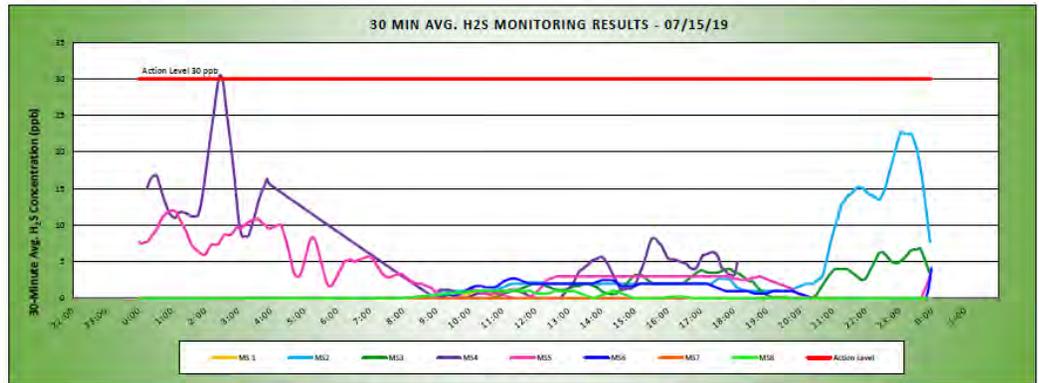


KEEGAN LANDFILL DAILY AIR MONITORING REPORTS – JULY

- [Daily Air Monitoring Report – July 1, 2019](#)
- [Daily Air Monitoring Report – July 2, 2019](#)
- [Daily Air Monitoring Report – July 3, 2019](#)
- [Daily Air Monitoring Report – July 4, 2019](#)
- [Daily Air Monitoring Report – July 5, 2019](#)
- [Daily Air Monitoring Report – July 6, 2019](#)
- [Daily Air Monitoring Report – July 7, 2019](#)
- [Daily Air Monitoring Report – July 8, 2019](#)
- [Daily Air Monitoring Report – July 9, 2019](#)
- [Daily Air Monitoring Report – July 10, 2019](#)
- [Daily Air Monitoring Report – July 11, 2019](#)
- [Daily Air Monitoring Report – July 12, 2019](#)
- [Daily Air Monitoring Report – July 13, 2019](#)
- [Daily Air Monitoring Report – July 14, 2019](#)
- [Daily Air Monitoring Report – July 15, 2019](#)



Keegan Landfill Monitoring Project		DAILY AIR MONITORING REPORT Keegan Landfill Monitoring Station Kearny, New Jersey				07/15/19	
						Field Operations	
		Page 1 of 1		Submitted By:		Rev. No. 0	
		30 Minute Avg H ₂ S Action Level		30 ppb			
Weather Data Range from Full Weather Station		Wind Direction	N	Relative Humidity (%)	30.1 - 71.8		
Temp (°F)	68.1 - 87.6	Wind Speed (MPH)	0.3 - 8.3	Barometer (inHg)	30.08 - 30.17		
		Daily Rain (in)	0.00		Landfill Perimeter Monitoring		
<small>*Note: Wind Direction reported in the direction that it is coming from</small>							
Station Location Area	Work	Daily Avg. 30 Min H ₂ S Concentration (ppb)	Max 30 Min H ₂ S Concentration (ppb)	Time of Max 30 Min H ₂ S Reading	Corresponding Wind Direction		
MS-1		0.1	1.0	10:10	NW		
MS-2		3.1	22.7	23:04	W		
MS-3		1.3	6.8	23:37	S		
MS-4		6.5	30.5	2:26	WNW		
MS-5		3.5	12.0	0:56	N		
MS-6		0.8	4.2	23:58	NNW		
MS-7		0.0	0.0	23:58	N/A		
MS-8		0.2	1.0	10:11	N		



Air Monitoring Notes:





Upcoming Activities

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GCCS Construction

- Header trenching on landfill sideslopes
- Lowpoint and condensate drain installation
- Well Drilling – tentative July 29th
- Continue hourly checks of monitoring station
- Continue neighborhood odor checks
- Continue odor neutralizer application