

October 26, 2019
File No. 02219702.00

Mr. Tom Farrell, Manager
Division of Solid Waste Enforcement
New Jersey Department of Environmental Protection
9 Ewing Street
Trenton, New Jersey 08625-0420

Mr. Jeffrey Meyer, Manager
Division of Air Enforcement
Bureau of Air Compliance and Enforcement
New Jersey Department of Environmental Protection
7 Ridgedale Avenue
Cedar Knolls, New Jersey 07927

Subject: October 24 and 25, 2019 Monitoring Station Data
Keegan Landfill
New Jersey Sports and Exposition Authority
Permit Activity Number: EIP190001
EA ID#: NEA 190001-13317

Dear Mr. Farrell and Mr. Meyer:

On October 24 and 25, 2019, NEXA, on behalf of the New Jersey Sports and Exposition Authority (NJSEA), notified the NJDEP hotline (1-877-WARNDEP) via phone that hydrogen sulfide (H₂S) gas measurements in excess of 30 ppb over a 30-minute period (rolling averages) were recorded at monitoring station MS-2 at the Keegan Landfill (see Attachment 1). NJSEA made these notifications, as required under the NJDEP-approved Monitoring Action Plan and Reference #11 of the subject Permit, for raw data collected from MS-2 on October 24 and 25, 2019 (see Attachment 2). We provide discussion and analysis of the data recorded at MS-2 below.

MONITORING STATION MS-2

The 30-minute rolling average H₂S concentration at Monitoring Station MS-2 was in excess of 30 ppb for intermittent periods between 11:12 pm on October 24 and 8:18 am on October 25; and between 10:33 pm and 11:09 pm on October 25 (see raw data in Attachment 2). The hydrogen sulfide concentration, average wind speed and wind direction measured during the two periods are provided in Attachment 3.

During the overnight exceedance period, between October 24 and 25, the average wind speed and wind direction ranged from 0.8 mph to 1.5 mph; and 210 degrees to 286 degrees, respectively (i.e., from the southwest to west-northwest).



October 26, 2019

Page 2

During the exceedance period in the late evening on October 25, the average wind speed and wind direction was 2.2 mph and 212 degrees (i.e., from the southwest).

The wind directions and MS-2 are shown on maps of the site. The nearest potential receptor is approximately 2,500 to 3,000 feet from the monitoring station (see Attachment 4).

The cause of the emissions from Monitoring Station MS-2 appears to be uncontrolled emissions from the Landfill. There was no corrective action implemented in accordance with the Odor Control Plan as the overnight exceedances returned to less than 30 ppb.

The landfill gas collection and control system (GCCS) installation is complete and commenced operation on September 5, 2019. The GCCS is being continuously monitored and adjusted to ensure efficient collection of landfill gas and to address specific exceedances at the monitoring stations.

Please call either of the undersigned with any questions or comments.

Sincerely,



Christine H. Stokes
Project Manager
SCS Engineers



Lisa K. Wilkinson, PE
Project Director
SCS Engineers

cc: G. Lugo, NJDEP (electronic copy)
A. Fontana, NJDEP (electronic copy)
T. Marturano, NJSEA (electronic copy)
A. Levy, NJSEA (electronic copy)
C. Sanz, NJSEA (electronic copy)
J. Stewart, Lowenstein (electronic copy)
G. Castano, Castano Quigley (electronic copy)
L. Lim, NJDEP (electronic copy)
B. Farbanish, NJDEP (electronic copy)
J. Mattessich, NJDEP (electronic copy)

Attachment 1

From: [Nexa](#)
To: csanz@njsea.com; [Wilkinson, Lisa](#); cwu@emilcott.com; [Ayers, Christine](#); tmarturano@njsea.com
Subject: IntelliForm For (8005117069) 2019-10-24 11:47PM
Date: Thursday, October 24, 2019 11:49:06 PM

=====
===== This message originated outside of SCS Engineers =====
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New Jersey Sports & Exposition Authority

10/24/2019 11:48:55 PM



IN: 10/24/19 11:16 PM (E1LEE)
OUT: 10/24/19 11:48 PM (STLEM AutoFile)

MONITORING STATION #: **MS-2**

TIME 1ST EMAIL RECEIVED: **11:12 PM**

PPB: **33.333**

TIME RELAYED: **11:16 PM**

INCIDENT #: **19-10-24-2316-41**

NEXA ASSOCIATE NAME: **LEE ANN**

RELAYED TO OPERATOR #: **60**

TIME LAST ALERT RECEIVED: ~~11:24 PM~~ **11:30 PM**

HIGHEST PPB FOR MS: **35.167**

TIME RELAYED: **11:46 PM**

INCIDENT #: **19-10-24-2316-41**

NEXA ASSOCIATE NAME: **LEE ANN**

RELAYED TO OPERATOR #: **68**

-
- 1) 10/24/19 11:16 PM E1LEE Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2 dialed DEP
 - 2) 10/24/19 11:20 PM E1LEE Set Delay Action 015 (2436071)
 - 3) 10/24/19 11:39 PM D1LYR Get Delay Action (2436071)
 - 4) 10/24/19 11:46 PM E1LEE Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2
 - 5) 10/24/19 11:48 PM E1LEE Auto Script CALL COMPLETED

- 6) 10/24/19 11:48 PM *EM Email OK: OFFICE EMAIL, api@hexa.com
- 7) 10/24/19 11:49 PM API API Email csanz@njsea.com
- 8) 10/24/19 11:49 PM API API Email lwilkinson@scsengineers.com
- 9) 10/24/19 11:49 PM API API Email cwu@emilcott.com
- 10) 10/24/19 11:49 PM API API Email cstokes@scsengineers.com
- 11) 10/24/19 11:49 PM API API Email tmarturano@njsea.com

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From: [Nexa](#)
To: csanz@njsea.com; [Wilkinson, Lisa](mailto:Wilkinson.Lisa); cwu@emilcott.com; [Ayers, Christine](mailto:Ayers.Christine); tmarturano@njsea.com
Subject: IntelliForm For (8005117069) 2019-10-25 01:53AM
Date: Friday, October 25, 2019 1:55:01 AM

===== This message originated outside of SCS Engineers =====



New Jersey Sports & Exposition Authority

10/25/2019 1:54:28 AM



IN: 10/24/19 11:49 PM (D1TRT)
OUT: 10/25/19 01:53 AM (STLEM AutoFile)

MONITORING STATION #: **MS-2**
TIME 1ST EMAIL RECEIVED: **11:48 PM**
PPB: **31.500**
TIME RELAYED: **11:50 PM**
INCIDENT #: **19-10-24-2353-57**
NEXA ASSOCIATE NAME: **LEE ANN**
RELAYED TO OPERATOR #: **68**
TIME LAST ALERT RECEIVED: **1:30A**
HIGHEST PPB FOR MS: **66.000**
TIME RELAYED: **1:52A**
INCIDENT #: **19-10-24-2353-57**
NEXA ASSOCIATE NAME: **TRE**
RELAYED TO OPERATOR #: **60**

-
- 1) 10/24/19 11:50 PM E1LEE Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2 dialed DEP
 - 2) 10/24/19 11:56 PM E1LEE Set Delay Action 015 (2436091)
 - 3) 10/25/19 12:12 AM D1MAR Get Delay Action (2436091)
 - 4) 10/25/19 12:14 AM D1MAR LAST EMAIL RECEIVED REGARDING MONITOR M2 1209A
 - 5) 10/25/19 12:14 AM D1MAR Set Delay Action 010 (2436091)

- 6) 10/25/19 12:26 AM D1TRT Get Delay Action (2436091)
- 7) 10/25/19 12:26 AM E1LEE Set Delay Action 010 (2436091)
- 8) 10/25/19 12:27 AM D1TRT Set Delay Action 015 (2436091)
- 9) 10/25/19 12:42 AM E1DAN 35 333 at 1233a
- 10) 10/25/19 12:42 AM E1DAN 36 000 at 1239a
- 11) 10/25/19 12:46 AM E1DAN 40 667 at 1245a
- 12) 10/25/19 12:46 AM E1DAN Set Delay Action 000 (2436091)
- 13) 10/25/19 12:46 AM E1DAN Set Delay Action 015 (2436091)
- 14) 10/25/19 12:49 AM D1TRT Get Delay Action (2436091)
- 15) 10/25/19 12:49 AM D1TRT Set Delay Action 015 (2436091)
- 16) 10/25/19 12:54 AM E1DAN 48 167 at 1251a
- 17) 10/25/19 12:54 AM E1DAN Set Delay Action 000 (2436091)
- 18) 10/25/19 12:54 AM E1DAN Set Delay Action 015 (2436091)
- 19) 10/25/19 01:07 AM E1DAN 55 667 at 1257a
- 20) 10/25/19 01:08 AM E1DAN 62 500 at 103a
- 21) 10/25/19 01:08 AM E1DAN Set Delay Action 000 (2436091)
- 22) 10/25/19 01:08 AM E1DAN Set Delay Action 015 (2436091)
- 23) 10/25/19 01:16 AM E1DAN Set Delay Action 000 (2436091)
- 24) 10/25/19 01:16 AM E1DAN 66 000 AT 109A
- 25) 10/25/19 01:16 AM E1DAN Set Delay Action 000 (2436091)
- 26) 10/25/19 01:17 AM E1DAN Set Delay Action 015 (2436091)
- 27) 10/25/19 01:23 AM E1DAN Set Delay Action 000 (2436091)
- 28) 10/25/19 01:23 AM E1DAN 50 333 at 118a
- 29) 10/25/19 01:23 AM E1DAN Set Delay Action 015 (2436091)
- 30) 10/25/19 01:29 AM D1DLC 41 333 at 124a
- 31) 10/25/19 01:29 AM D1DLC Set Delay Action 010 (2436091)
- 32) 10/25/19 01:31 AM E1DLC 32 333 at 130am
- 33) 10/25/19 01:31 AM E1DLC Set Delay Action 015 (2436091)
- 34) 10/25/19 01:50 AM D1TRT Get Delay Action (2436091)
- 35) 10/25/19 01:52 AM D1TRT Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2
- 36) 10/25/19 01:54 AM D1TRT Auto Script CALL COMPLETED
- 37) 10/25/19 01:54 AM *EM Email OK: OFFICE EMAIL, api@nexa.com
- 38) 10/25/19 01:54 AM API API Email csanz@njsea.com
- 39) 10/25/19 01:54 AM API API Email lwilkinson@scsengineers.com
- 40) 10/25/19 01:54 AM API API Email cwu@emilcott.com
- 41) 10/25/19 01:54 AM API API Email cstokes@scsengineers.com
- 42) 10/25/19 01:55 AM API API Email tmarturano@njsea.com

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From: [Nexa](#)
To: csanz@njsea.com; [Wilkinson, Lisa](mailto:Wilkinson.Lisa); cwu@emilcott.com; [Ayers, Christine](mailto:Ayers.Christine); tmarturano@njsea.com
Subject: IntelliForm For (8005117069) 2019-10-25 04:17AM
Date: Friday, October 25, 2019 4:18:46 AM

===== This message originated outside of SCS Engineers =====



New Jersey Sports & Exposition Authority

10/25/2019 4:18:34 AM



IN: 10/25/19 02:10 AM (D1MAR)
OUT: 10/25/19 04:17 AM (STLEM AutoFile)

MONITORING STATION #: **2**

TIME 1ST EMAIL RECEIVED: **2A**

PPB: **47.833**

TIME RELAYED: **2:02A**

INCIDENT #: **19-10-25-0203-21**

NEXA ASSOCIATE NAME: **DANIEL G**

RELAYED TO OPERATOR #: **60**

TIME LAST ALERT RECEIVED: **348A**

HIGHEST PPB FOR MS: ~~69.167~~ **125**

TIME RELAYED: **417A**

INCIDENT #: ~~N/A~~ **19-10-25-0203-21**

NEXA ASSOCIATE NAME: **MARIANNA**

RELAYED TO OPERATOR #: **60**

-
- 1) 10/25/19 02:11 AM E1DAN already dialed dep for 1st attempt
 - 2) 10/25/19 02:11 AM E1DAN relayed to operator 60 at 202a
 - 3) 10/25/19 02:11 AM E1DAN started at 47 833 at 2a
 - 4) 10/25/19 02:11 AM E1DAN 58 833 at 206a
 - 5) 10/25/19 02:12 AM E1DAN see filed for dial out

- 6) 10/25/19 02:12 AM E1DAN Set Delay Action 015 (2436175)
- 7) 10/25/19 02:16 AM E1DAN 76 000 at 212a
- 8) 10/25/19 02:16 AM E1DAN Set Delay Action 000 (2436175)
- 9) 10/25/19 02:16 AM E1DAN Set Delay Action 015 (2436175)
- 10) 10/25/19 02:25 AM E1DAN Set Delay Action 000 (2436175)
- 11) 10/25/19 02:25 AM E1DAN 103 167 at 221a
- 12) 10/25/19 02:25 AM E1DAN Set Delay Action 015 (2436175)
- 13) 10/25/19 02:28 AM WFDAN 111 000 at 227a
- 14) 10/25/19 02:39 AM E1DAN Set Delay Action 000 (2436175)
- 15) 10/25/19 02:39 AM E1DAN 118 833 at 233a
- 16) 10/25/19 02:39 AM E1DAN Set Delay Action 015 (2436175)
- 17) 10/25/19 02:40 AM E1DAN 125 000 at 239a
- 18) 10/25/19 02:49 AM E1DLC 109 at 245a
- 19) 10/25/19 02:49 AM E1DLC Set Delay Action 015 (2436175)
- 20) 10/25/19 02:53 AM E1DAN 93 000 at 251a
- 21) 10/25/19 03:01 AM E1DLC 75 333 at 257am
- 22) 10/25/19 03:01 AM E1DLC Set Delay Action 015 (2436175)
- 23) 10/25/19 03:10 AM E1DAN 60 667 at 303a
- 24) 10/25/19 03:10 AM E1DAN 53 667 at 309a
- 25) 10/25/19 03:11 AM E1DAN Set Delay Action 000 (2436175)
- 26) 10/25/19 03:11 AM E1DAN Set Delay Action 015 (2436175)
- 27) 10/25/19 03:22 AM E1DAN 48 333 at 315a
- 28) 10/25/19 03:22 AM E1DAN 59 000 at 321a
- 29) 10/25/19 03:22 AM E1DAN Set Delay Action 015 (2436175)
- 30) 10/25/19 03:29 AM E1DAN 69 000 at 327a
- 31) 10/25/19 03:34 AM E1DAN 69 167 at 330a
- 32) 10/25/19 03:35 AM E1DAN Set Delay Action 000 (2436175)
- 33) 10/25/19 03:35 AM E1DAN Set Delay Action 015 (2436175)
- 34) 10/25/19 03:38 AM E1DAN 65 000 at 336a
- 35) 10/25/19 03:38 AM E1DAN Set Delay Action 015 (2436175)
- 36) 10/25/19 03:43 AM E1DAN 52 167 at 342a
- 37) 10/25/19 03:43 AM E1DAN Set Delay Action 000 (2436175)
- 38) 10/25/19 03:43 AM E1DAN Set Delay Action 015 (2436175)
- 39) 10/25/19 03:52 AM E1DLC 39 333 at 348am
- 40) 10/25/19 03:52 AM E1DLC Set Delay Action 015 (2436175)
- 41) 10/25/19 04:13 AM D1MAR Get Delay Action (2436175)
- 42) 10/25/19 04:16 AM D1MAR Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2
- 43) 10/25/19 04:18 AM D1MAR Auto Script CALL COMPLETED
- 44) 10/25/19 04:18 AM D1MAR Set Delay Action 000 (2436175)

- 45) 10/25/19 04:18 AM D1MAR relayed to operator 60
- 46) 10/25/19 04:18 AM *EM Email OK: OFFICE EMAIL, api@nexa.com
- 47) 10/25/19 04:19 AM API API Email csanz@njsea.com
- 48) 10/25/19 04:19 AM API API Email lwilkinson@scsengineers.com
- 49) 10/25/19 04:19 AM API API Email cwu@emilcott.com
- 50) 10/25/19 04:19 AM API API Email cstokes@scsengineers.com
- 51) 10/25/19 04:19 AM API API Email tmarturano@njsea.com

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From: [Nexa](#)
To: csanz@njsea.com; [Wilkinson, Lisa](mailto:Wilkinson.Lisa); cwu@emilcott.com; [Ayers, Christine](mailto:Ayers.Christine); tmarturano@njsea.com
Subject: IntelliForm For (8005117069) 2019-10-25 05:22AM
Date: Friday, October 25, 2019 5:23:15 AM

=====
===== This message originated outside of SCS Engineers =====



New Jersey Sports & Exposition Authority

10/25/2019 5:23:05 AM



IN: 10/25/19 04:33 AM (D1MAR)
OUT: 10/25/19 05:22 AM (STLEM AutoFile)

MONITORING STATION #: **MS-2**

TIME 1ST EMAIL RECEIVED: **4:30 AM**

PPB: **32.333**

TIME RELAYED: **4:39AM**

INCIDENT #: **19-10-25-0436-02**

NEXA ASSOCIATE NAME: **DANIEL C**

RELAYED TO OPERATOR #: **60**

TIME LAST ALERT RECEIVED: **457A**

HIGHEST PPB FOR MS: **41**

TIME RELAYED: **521A**

INCIDENT #: ~~N/A~~ **19-10-25-0436-02**

NEXA ASSOCIATE NAME: **MARIANNA**

RELAYED TO OPERATOR #: **60**

1) 10/25/19 04:36 AM E1DLC Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2 dialing dep

2) 10/25/19 04:40 AM E1DLC relayed to operator 60

3) 10/25/19 04:40 AM E1DLC 38 167 at 436am

4) 10/25/19 04:40 AM E1DLC 41 167 at 439am

5) 10/25/19 04:40 AM E1DLC Set Delay Action 015 (2436224)

- 6) 10/25/19 04:46 AM E1DLC 40 667 at 445am
- 7) 10/25/19 04:46 AM E1DLC Set Delay Action 015 (2436224)
- 8) 10/25/19 04:54 AM E1DLC 39 at 451am
- 9) 10/25/19 04:54 AM E1DLC Set Delay Action 015 (2436224)
- 10) 10/25/19 05:01 AM E1DAN 33 333 at 457a
- 11) 10/25/19 05:16 AM D1MAR Get Delay Action (2436224)
- 12) 10/25/19 05:20 AM D1MAR Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2
- 13) 10/25/19 05:22 AM D1MAR Auto Script CALL COMPLETED
- 14) 10/25/19 05:22 AM D1MAR relayed to operator 60
- 15) 10/25/19 05:22 AM *EM Email OK: OFFICE EMAIL, api@nexa.com
- 16) 10/25/19 05:23 AM API API Email csanz@njsea.com
- 17) 10/25/19 05:23 AM API API Email lwilkinson@scsengineers.com
- 18) 10/25/19 05:23 AM API API Email cwu@emilcott.com
- 19) 10/25/19 05:23 AM API API Email cstokes@scsengineers.com
- 20) 10/25/19 05:23 AM API API Email tmarturano@njsea.com

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To: csanz@njsea.com; [Wilkinson, Lisa](mailto:Wilkinson.Lisa); cwu@emilcott.com; [Ayers, Christine](mailto:Ayers.Christine); tmarturano@njsea.com
Subject: IntelliForm For (8005117069) 2019-10-25 07:16AM
Date: Friday, October 25, 2019 7:17:21 AM

===== This message originated outside of SCS Engineers =====



New Jersey Sports & Exposition Authority

10/25/2019 7:17:08 AM



IN: 10/25/19 06:07 AM (D1MAR)
OUT: 10/25/19 07:16 AM (STLEM AutoFile)

MONITORING STATION #: **MS-2**
TIME 1ST EMAIL RECEIVED: **606AM**
PPB: **34.167 606A**
TIME RELAYED: **6:13AM**
INCIDENT #: **19-10-25-0609-07**
NEXA ASSOCIATE NAME: **DANIEL C**
RELAYED TO OPERATOR #: **83**
TIME LAST ALERT RECEIVED: **654A**
HIGHEST PPB FOR MS: **57.000 624A**
TIME RELAYED: **715A**
INCIDENT #: **19-10-25-0609-07**
NEXA ASSOCIATE NAME: **MARIANNA**
RELAYED TO OPERATOR #: **83**

-
- 1) 10/25/19 06:09 AM E1DLC Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2 dialing dep
 - 2) 10/25/19 06:13 AM E1DLC relayed to 83
 - 3) 10/25/19 06:14 AM E1DLC 42 167 at 612am
 - 4) 10/25/19 06:14 AM E1DLC Set Delay Action 015 (2436255)
 - 5) 10/25/19 06:21 AM E1DLC 50 167 at 618am

- 6) 10/25/19 06:21 AM E1DLC Set Delay Action 015 (2436255)
- 7) 10/25/19 06:26 AM E1DLC 57 at 624am
- 8) 10/25/19 06:27 AM E1DLC Set Delay Action 015 (2436255)
- 9) 10/25/19 06:31 AM E1DLC 55 333 at 630am
- 10) 10/25/19 06:31 AM E1DLC Set Delay Action 015 (2436255)
- 11) 10/25/19 06:43 AM D1TRT 6 42 50 ppb
- 12) 10/25/19 06:43 AM D1TRT Set Delay Action 015 (2436255)
- 13) 10/25/19 06:56 AM D1TRT 6 48 42 833 ppb
- 14) 10/25/19 06:56 AM D1TRT 654a 35 667 ppb
- 15) 10/25/19 06:56 AM D1TRT Set Delay Action 015 (2436255)
- 16) 10/25/19 07:12 AM D1MAR Get Delay Action (2436255)
- 17) 10/25/19 07:14 AM D1MAR Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2
- 18) 10/25/19 07:16 AM D1MAR relayed to operator 83
- 19) 10/25/19 07:16 AM D1MAR Auto Script CALL COMPLETED
- 20) 10/25/19 07:16 AM D1MAR Set Delay Action 000 (2436255)
- 21) 10/25/19 07:16 AM *EM Email OK: OFFICE EMAIL, api@nexa.com
- 22) 10/25/19 07:17 AM API API Email csanz@njsea.com
- 23) 10/25/19 07:17 AM API API Email lwilkinson@scsengineers.com
- 24) 10/25/19 07:17 AM API API Email cwu@emilcott.com
- 25) 10/25/19 07:17 AM API API Email cstokes@scsengineers.com
- 26) 10/25/19 07:17 AM API API Email tmarturano@njsea.com

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To: csanz@njsea.com; [Wilkinson, Lisa](mailto:Wilkinson_Lisa); cwu@emilcott.com; [Ayers, Christine](mailto:Ayers_Christine); tmarturano@njsea.com
Subject: IntelliForm For (8005117069) 2019-10-25 09:33AM
Date: Friday, October 25, 2019 9:34:20 AM

=====
===== This message originated outside of SCS Engineers =====
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New Jersey Sports & Exposition Authority

10/25/2019 9:34:13 AM



IN: 10/25/19 09:30 AM (E1MSA)
OUT: 10/25/19 09:33 AM (STLEM AutoFile)

MONITORING STATION #: **2**

TIME 1ST EMAIL RECEIVED: ~~8:03AM~~ **7:39 AM**

PPB: **38.333**

TIME RELAYED:

INCIDENT #: **19-10-25-0609-07**

NEXA ASSOCIATE NAME: **MARITZA**

RELAYED TO OPERATOR #:

TIME LAST ALERT RECEIVED: **8:18AM**

HIGHEST PPB FOR MS: **75.167**

TIME RELAYED: **9:18**

INCIDENT #: **19-10-25-0609-07**

NEXA ASSOCIATE NAME: **MARIBEL**

RELAYED TO OPERATOR #: **83**

-
- 1) 10/25/19 09:33 AM E1MSA Auto Script CALL COMPLETED
 - 2) 10/25/19 09:34 AM *EM Email OK: OFFICE EMAIL, api@nexa.com
 - 3) 10/25/19 09:34 AM E1MSA accidently deliver the other ticket
 - 4) 10/25/19 09:34 AM API API Email csanz@njsea.com
 - 5) 10/25/19 09:34 AM API API Email lwilkinson@scsengineers.com

- 6) 10/25/19 09:34 AM API API Email cwu@emilcott.com
- 7) 10/25/19 09:34 AM API API Email cstokes@scsengineers.com
- 8) 10/25/19 09:34 AM API API Email tmarturano@njsea.com

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To: csanz@njsea.com; [Wilkinson, Lisa](mailto:Wilkinson.Lisa); cwu@emilcott.com; [Ayers, Christine](mailto:Ayers.Christine); tmarturano@njsea.com
Subject: IntelliForm For (8005117069) 2019-10-25 11:34PM
Date: Friday, October 25, 2019 11:35:40 PM

=====
===== This message originated outside of SCS Engineers =====



New Jersey Sports & Exposition Authority

10/25/2019 11:35:32 PM



IN: 10/25/19 10:36 PM (E1LEE)
OUT: 10/25/19 11:34 PM (STLEM AutoFile)

MONITORING STATION #: **MS-2**

TIME 1ST EMAIL RECEIVED: **10:33PM**

PPB: **33.667**

TIME RELAYED: **10:45PM**

INCIDENT #: **19-10-25-2237-31**

NEXA ASSOCIATE NAME: **JESSICA EVANS**

RELAYED TO OPERATOR #: **16**

TIME LAST ALERT RECEIVED: **11:09 PM**

HIGHEST PPB FOR MS: **38.500**

TIME RELAYED: **11:32 PM**

INCIDENT #: **19-10-25-2237-33**

NEXA ASSOCIATE NAME: **LEE ANN**

RELAYED TO OPERATOR #: **68**

-
- 1) 10/25/19 10:37 PM E1JEV Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2 dialed
 - 2) 10/25/19 10:47 PM E1JEV Set Delay Action 015 (2437088)
 - 3) 10/25/19 11:08 PM D1HSR Get Delay Action (2437088)
 - 4) 10/25/19 11:12 PM JEV Set Delay Action 015 (2437088)
 - 5) 10/25/19 11:28 PM D1MIL Get Delay Action (2437088)

- 6) 10/25/19 11:31 PM E1LEE Dial DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION) 8779276337,,2 Dialed DEP
- 7) 10/25/19 11:35 PM E1LEE Auto Script CALL COMPLETED
- 8) 10/25/19 11:35 PM *EM Email OK: OFFICE EMAIL, api@nexa.com
- 9) 10/25/19 11:36 PM API API Email csanz@njsea.com
- 10) 10/25/19 11:36 PM API API Email lwilkinson@scsengineers.com
- 11) 10/25/19 11:36 PM API API Email cwu@emilcott.com
- 12) 10/25/19 11:36 PM API API Email cstokes@scsengineers.com
- 13) 10/25/19 11:36 PM API API Email tmarturano@njsea.com

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Attachment 2

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/24/2019 19:02	4	
10/24/2019 19:08	4	
10/24/2019 19:14	4	
10/24/2019 19:19	3	
10/24/2019 19:25	3	
10/24/2019 19:31	3	3.5
10/24/2019 19:37	3	3.3
10/24/2019 19:42	4	3.3
10/24/2019 19:48	6	3.7
10/24/2019 19:54	6	4.2
10/24/2019 20:00	6	4.7
10/24/2019 20:05	5	5.0
10/24/2019 20:11	5	5.3
10/24/2019 20:17	5	5.5
10/24/2019 20:23	5	5.3
10/24/2019 20:28	5	5.2
10/24/2019 20:34	5	5.0
10/24/2019 20:40	4	4.8
10/24/2019 20:46	5	4.8
10/24/2019 20:51	3	4.5
10/24/2019 20:57	3	4.2
10/24/2019 21:03	3	3.8
10/24/2019 21:09	4	3.7
10/24/2019 21:14	3	3.5
10/24/2019 21:20	3	3.2
10/24/2019 21:26	4	3.3
10/24/2019 21:32	3	3.3
10/24/2019 21:37	3	3.3
10/24/2019 21:43	5	3.5
10/24/2019 21:49	6	4.0
10/24/2019 21:55	6	4.5
10/24/2019 22:00	7	5.0
10/24/2019 22:06	7	5.7
10/24/2019 22:12	7	6.3
10/24/2019 22:18	8	6.8
10/24/2019 22:23	10	7.5
10/24/2019 22:29	12	8.5
10/24/2019 22:35	12	9.3
10/24/2019 22:41	23	12.0

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/24/2019 22:46	30	15.8
10/24/2019 22:52	33	20.0
10/24/2019 22:58	38	24.7
10/24/2019 23:04	38	29.0
10/24/2019 23:09	38	33.3
10/24/2019 23:15	34	35.2
10/24/2019 23:21	19	33.3
10/24/2019 23:27	19	31.0
10/24/2019 23:32	28	29.3
10/24/2019 23:38	28	27.7
10/24/2019 23:44	61	31.5
10/24/2019 23:49	85	40.0
10/24/2019 23:55	85	51.0
10/25/2019 0:01	61	58.0
10/25/2019 0:07	43	60.5
10/25/2019 0:13	26	60.2
10/25/2019 0:18	26	54.3
10/25/2019 0:24	28	44.8
10/25/2019 0:30	28	35.3
10/25/2019 0:36	65	36.0
10/25/2019 0:41	71	40.7
10/25/2019 0:47	71	48.2
10/25/2019 0:53	71	55.7
10/25/2019 0:59	69	62.5
10/25/2019 1:04	49	66.0
10/25/2019 1:10	21	58.7
10/25/2019 1:16	21	50.3
10/25/2019 1:22	17	41.3
10/25/2019 1:27	17	32.3
10/25/2019 1:33	17	23.7
10/25/2019 1:39	36	21.5
10/25/2019 1:44	51	26.5
10/25/2019 1:50	83	36.8
10/25/2019 1:56	83	47.8
10/25/2019 2:02	83	58.8
10/25/2019 2:07	120	76.0
10/25/2019 2:13	120	90.0
10/25/2019 2:19	130	103.2
10/25/2019 2:25	130	111.0

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/25/2019 2:31	130	118.8
10/25/2019 2:36	120	125.0
10/25/2019 2:42	24	109.0
10/25/2019 2:48	24	93.0
10/25/2019 2:54	24	75.3
10/25/2019 2:59	42	60.7
10/25/2019 3:05	88	53.7
10/25/2019 3:11	88	48.3
10/25/2019 3:17	88	59.0
10/25/2019 3:22	84	69.0
10/25/2019 3:28	25	69.2
10/25/2019 3:34	17	65.0
10/25/2019 3:40	11	52.2
10/25/2019 3:45	11	39.3
10/25/2019 3:51	11	26.5
10/25/2019 3:57	16	15.2
10/25/2019 4:03	22	14.7
10/25/2019 4:08	24	15.8
10/25/2019 4:14	30	19.0
10/25/2019 4:20	51	25.7
10/25/2019 4:26	51	32.3
10/25/2019 4:31	51	38.2
10/25/2019 4:37	40	41.2
10/25/2019 4:43	21	40.7
10/25/2019 4:49	20	39.0
10/25/2019 4:54	17	33.3
10/25/2019 5:00	16	27.5
10/25/2019 5:06	16	21.7
10/25/2019 5:12	8	16.3
10/25/2019 5:17	8	14.2
10/25/2019 5:23	8	12.2
10/25/2019 5:29	5	10.2
10/25/2019 5:35	5	8.3
10/25/2019 5:40	5	6.5
10/25/2019 5:46	12	7.2
10/25/2019 5:52	61	16.0
10/25/2019 5:58	61	24.8
10/25/2019 6:03	61	34.2
10/25/2019 6:09	53	42.2

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/25/2019 6:15	53	50.2
10/25/2019 6:21	53	57.0
10/25/2019 6:26	51	55.3
10/25/2019 6:32	51	53.7
10/25/2019 6:38	39	50.0
10/25/2019 6:44	10	42.8
10/25/2019 6:49	10	35.7
10/25/2019 6:55	10	28.5
10/25/2019 7:01	6	21.0
10/25/2019 7:07	10	14.2
10/25/2019 7:12	10	9.3
10/25/2019 7:18	23	11.5
10/25/2019 7:24	43	17.0
10/25/2019 7:29	72	27.3
10/25/2019 7:35	72	38.3
10/25/2019 7:41	88	51.3
10/25/2019 7:47	88	64.3
10/25/2019 7:53	69	72.0
10/25/2019 7:58	62	75.2
10/25/2019 8:04	10	64.8
10/25/2019 8:10	6	53.8
10/25/2019 8:16	6	40.2
10/25/2019 8:21	6	26.5
10/25/2019 8:27	14	17.3
10/25/2019 8:33	14	9.3
10/25/2019 8:39	14	10.0
10/25/2019 8:44	14	11.3
10/25/2019 8:50	11	12.2
10/25/2019 8:56	9	12.7
10/25/2019 9:02	7	11.5
10/25/2019 9:07	6	10.2
10/25/2019 9:13	4	8.5
10/25/2019 9:19	4	6.8
10/25/2019 9:25	4	5.7
10/25/2019 9:30	4	4.8
10/25/2019 9:36	4	4.3
10/25/2019 9:42	4	4.0
10/25/2019 9:48	4	4.0
10/25/2019 9:53	4	4.0

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/25/2019 9:59	3	3.8
10/25/2019 10:04		3.8
10/25/2019 10:10		3.8
10/25/2019 10:55	4	-
10/25/2019 11:01	4	-
10/25/2019 11:07	4	-
10/25/2019 11:13	4	-
10/25/2019 11:18	4	-
10/25/2019 11:24	4	4.0
10/25/2019 11:30	4	4.0
10/25/2019 11:36	4	4.0
10/25/2019 11:41	5	4.2
10/25/2019 11:47	5	4.3
10/25/2019 11:53	5	4.5
10/25/2019 11:59	5	4.7
10/25/2019 12:04	5	4.8
10/25/2019 12:10	5	5.0
10/25/2019 12:16	5	5.0
10/25/2019 12:22	5	5.0
10/25/2019 12:27	5	5.0
10/25/2019 12:33	5	5.0
10/25/2019 12:39	5	5.0
10/25/2019 12:45	5	5.0
10/25/2019 12:50	6	5.2
10/25/2019 12:56	6	5.3
10/25/2019 13:02	6	5.5
10/25/2019 13:08	6	5.7
10/25/2019 13:13	6	5.8
10/25/2019 13:19	6	6.0
10/25/2019 13:25	6	6.0
10/25/2019 13:31	6	6.0
10/25/2019 13:36	6	6.0
10/25/2019 13:42	6	6.0
10/25/2019 13:48	6	6.0
10/25/2019 13:54	6	6.0
10/25/2019 13:59	6	6.0
10/25/2019 14:05	6	6.0
10/25/2019 14:11	6	6.0
10/25/2019 14:17	6	6.0

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/25/2019 14:22	6	6.0
10/25/2019 14:28	6	6.0
10/25/2019 14:34	6	6.0
10/25/2019 14:40	6	6.0
10/25/2019 14:45	5	5.8
10/25/2019 14:51	6	5.8
10/25/2019 14:57	6	5.8
10/25/2019 15:03	5	5.7
10/25/2019 15:08	5	5.5
10/25/2019 15:14	5	5.3
10/25/2019 15:20	5	5.3
10/25/2019 15:26	5	5.2
10/25/2019 15:31	5	5.0
10/25/2019 15:37	4	4.8
10/25/2019 15:43	4	4.7
10/25/2019 15:49	4	4.5
10/25/2019 15:54	4	4.3
10/25/2019 16:00	4	4.2
10/25/2019 16:06	4	4.0
10/25/2019 16:12	4	4.0
10/25/2019 16:17	3	3.8
10/25/2019 16:23	3	3.7
10/25/2019 16:29	3	3.5
10/25/2019 16:35	3	3.3
10/25/2019 16:40	3	3.2
10/25/2019 16:46	2	2.8
10/25/2019 16:52	2	2.7
10/25/2019 16:58	2	2.5
10/25/2019 17:03	2	2.3
10/25/2019 17:21	2	-
10/25/2019 17:26	2	-
10/25/2019 17:32	2	-
10/25/2019 17:38	2	-
10/25/2019 17:44	2	-
10/25/2019 17:49	2	2.0
10/25/2019 17:55	2	2.0
10/25/2019 18:01	2	2.0
10/25/2019 18:07	4	2.3
10/25/2019 18:12	4	2.7

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/25/2019 18:18	4	3.0
10/25/2019 18:24	4	3.3
10/25/2019 18:30	4	3.7
10/25/2019 18:35	4	4.0
10/25/2019 18:41	4	4.0
10/25/2019 18:47	4	4.0
10/25/2019 18:53	4	4.0
10/25/2019 18:58	4	4.0
10/25/2019 19:04	3	3.8
10/25/2019 19:10	3	3.7
10/25/2019 19:16	3	3.5
10/25/2019 19:21	3	3.3
10/25/2019 19:27	3	3.2
10/25/2019 19:33	3	3.0
10/25/2019 19:39	3	3.0
10/25/2019 19:44	3	3.0
10/25/2019 19:50	4	3.2
10/25/2019 19:56	4	3.3
10/25/2019 20:02	4	3.5
10/25/2019 20:07	4	3.7
10/25/2019 20:13	4	3.8
10/25/2019 20:19	5	4.2
10/25/2019 20:25	5	4.3
10/25/2019 20:30	4	4.3
10/25/2019 20:36	3	4.2
10/25/2019 20:42	5	4.3
10/25/2019 20:48	5	4.5
10/25/2019 20:53	4	4.3
10/25/2019 20:59	4	4.2
10/25/2019 21:05	5	4.3
10/25/2019 21:11	5	4.7
10/25/2019 21:16	6	4.8
10/25/2019 21:22	19	7.2
10/25/2019 21:28	19	9.7
10/25/2019 21:34	23	12.8
10/25/2019 21:39	19	15.2
10/25/2019 21:45	17	17.2
10/25/2019 21:51	17	19.0
10/25/2019 21:57	17	18.7

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/25/2019 22:02	12	17.5
10/25/2019 22:08	17	16.5
10/25/2019 22:14	35	19.2
10/25/2019 22:20	46	24.0
10/25/2019 22:25	46	28.8
10/25/2019 22:31	46	33.7
10/25/2019 22:37	29	36.5
10/25/2019 22:43	29	38.5
10/25/2019 22:48	28	37.3
10/25/2019 22:54	29	34.5
10/25/2019 23:00	34	32.5
10/25/2019 23:06	34	30.5
10/25/2019 23:11	24	29.7
10/25/2019 23:17	19	28.0
10/25/2019 23:23	19	26.5
10/25/2019 23:29	14	24.0
10/25/2019 23:34	10	20.0
10/25/2019 23:40	8	15.7
10/25/2019 23:46	7	12.8
10/25/2019 23:52	6	10.7
10/25/2019 23:57	6	8.5
10/26/2019 0:03	7	7.3
10/26/2019 0:09	10	7.3
10/26/2019 0:15	12	8.0
10/26/2019 0:20	12	8.8
10/26/2019 0:26	12	9.8
10/26/2019 0:32	7	10.0
10/26/2019 0:38	7	10.0
10/26/2019 0:43	7	9.5
10/26/2019 0:49	10	9.2
10/26/2019 0:55	10	8.8
10/26/2019 1:01	11	8.7
10/26/2019 1:06	11	9.3
10/26/2019 1:12	11	10.0
10/26/2019 1:18	10	10.5
10/26/2019 1:24	10	10.5
10/26/2019 1:29	10	10.5
10/26/2019 1:35	15	11.2
10/26/2019 1:41	15	11.8

**Hydrogen Sulfide Concentrations
Monitoring Station MS-2
Keegan Landfill**

Date & Time	H ₂ S Concentration (ppb)	30 Minute Rolling Average (ppb)
10/26/2019 1:47	15	12.5
10/26/2019 1:52	15	13.3
10/26/2019 1:58	16	14.3
10/26/2019 2:04	16	15.3
10/26/2019 2:10	18	15.8
10/26/2019 2:15	22	17.0
10/26/2019 2:21	22	18.2
10/26/2019 2:27	22	19.3
10/26/2019 2:33	19	19.8
10/26/2019 2:38	12	19.2
10/26/2019 2:44	7	17.3
10/26/2019 2:50	4	14.3
10/26/2019 2:56	3	11.2
10/26/2019 3:01	2	7.8
10/26/2019 3:07	2	5.0
10/26/2019 3:13	1	3.2
10/26/2019 3:19	1	2.2
10/26/2019 3:24	1	1.7
10/26/2019 3:30	4	1.8
10/26/2019 3:36	11	3.3
10/26/2019 3:42	16	5.7
10/26/2019 3:47	16	8.2
10/26/2019 3:53	16	10.7
10/26/2019 3:59	16	13.2

Attachment 3

Daily H ₂ S Readings at MS2 - Keegan Landfill Monitoring			
Date/Time	MS-2 -- Hydrogen Sulfide (ppb)	Wind Speed (mph)	Wind Direction
10/24/19 0:04	66	1.2	SW
10/24/19 0:10	43	2.8	W
10/24/19 0:16	40	2.0	WSW
10/24/19 0:21	40	2.3	WSW
10/24/19 0:27	19	3.1	WSW
10/24/19 0:33	9	2.7	W
10/24/19 0:39	4	2.1	W
10/24/19 0:44	4	1.6	W
10/24/19 0:50	4	0.8	W
10/24/19 0:56	9	1.5	W
10/24/19 1:02	9	1.5	WSW
10/24/19 1:07	9	1.7	WSW
10/24/19 1:13	9	1.0	WSW
10/24/19 1:19	8	0.5	SW
10/24/19 1:25	8	0.4	W
10/24/19 1:30	8	0.6	W
10/24/19 1:36	10	0.9	W
10/24/19 1:42	10	1.0	W
10/24/19 1:48	10	0.9	NW
10/24/19 1:53	5	0.6	W
10/24/19 1:59	5	1.3	W
10/24/19 2:05	5	1.3	W
10/24/19 2:11	4	1.5	W
10/24/19 2:16	3	1.0	WNW
10/24/19 2:22	3	0.8	WNW
10/24/19 2:28	3	0.8	W
10/24/19 2:34	3	0.9	W
10/24/19 2:39	4	0.9	WNW
10/24/19 2:45	4	1.3	WNW
10/24/19 2:51	4	1.8	WNW
10/24/19 2:57	4	1.4	WNW
10/24/19 3:02	4	1.3	WNW
10/24/19 3:08	4	1.1	WNW
10/24/19 3:14	4	0.8	W
10/24/19 3:20	4	0.8	WSW
10/24/19 3:25	3	0.8	SSW
10/24/19 3:31	2	0.7	SW
10/24/19 3:37	2	0.7	WSW
10/24/19 3:43	2	0.7	WSW
10/24/19 3:48	2	0.8	W
10/24/19 3:54	3	0.7	W
10/24/19 4:00	4	0.6	SW
10/24/19 4:06	4	0.7	WSW
10/24/19 4:11	4	0.7	WSW

NOTE: Wind Direction reported in the direction that the wind is coming from

10/24/19 4:17	5	1.1	W
10/24/19 4:23	6	1.0	W
10/24/19 4:29	9	0.8	W
10/24/19 4:34	9	1.0	W
10/24/19 4:40	9	0.5	WSW
10/24/19 4:46	6	0.4	SSW
10/24/19 4:52	6	0.8	S
10/24/19 4:57	6	0.7	SSW
10/24/19 5:03	7	0.6	SSW
10/24/19 5:09	9	0.4	SSW
10/24/19 5:15	13	1.1	S
10/24/19 5:20	20	0.6	SSW
10/24/19 5:26	20	0.8	WNW
10/24/19 5:32	20	1.0	W
10/24/19 5:38	20	1.0	W
10/24/19 5:43	19	0.7	SSW
10/24/19 5:49	19	0.6	SSW
10/24/19 5:55	19	1.3	S
10/24/19 6:01	19	1.1	S
10/24/19 6:06	12	0.7	SSW
10/24/19 6:12	11	0.6	SSW
10/24/19 6:18	11	0.7	W
10/24/19 6:24	11	1.2	WNW
10/24/19 6:29	25	1.4	W
10/24/19 6:35	25	1.6	W
10/24/19 6:41	37	0.8	SW
10/24/19 6:47	64	1.1	SE
10/24/19 6:52	48	0.8	SSW
10/24/19 6:58	48	1.1	W
10/24/19 7:04	48	1.4	WNW
10/24/19 7:10	29	1.8	W
10/24/19 7:15	28	1.2	W
10/24/19 7:21	28	0.4	SSW
10/24/19 7:27	28	1.0	WNW
10/24/19 7:33	29	1.3	W
10/24/19 7:38	31	0.7	SSW
10/24/19 7:44	39	0.9	WNW
10/24/19 7:50	40	1.3	W
10/24/19 7:56	67	0.6	WNW
10/24/19 8:01	120	0.4	ESE
10/24/19 8:07	120	0.6	ESE
10/24/19 8:13	120	0.3	NE
10/24/19 8:19	70	0.3	NE
10/24/19 8:24	41	1.4	ESE
10/24/19 8:30	30	1.6	S
10/24/19 8:36	22	1.9	SSW
10/24/19 8:42	8	1.9	S

NOTE: Wind Direction reported in the direction that the wind is coming from

10/24/19 8:47	8	2.1	SW
10/24/19 8:53	8	1.7	SSW
10/24/19 8:59	10	1.7	SSW
10/24/19 9:05	26	2.1	WSW
10/24/19 9:10	37	2.1	SSW
10/24/19 9:16	37	1.6	SW
10/24/19 9:22	26	2.3	WSW
10/24/19 9:28	16	1.9	SW
10/24/19 9:33	16	1.4	SW
10/24/19 9:39	10	0.6	SE
10/24/19 9:45	7	1.1	SSE
10/24/19 9:51	6	1.9	SSE
10/24/19 9:56	5	2.0	SE
10/24/19 10:02	5	1.9	SSE
10/24/19 10:08	4	3.1	S
10/24/19 10:14	4	1.5	SW
10/24/19 10:19	4	1.4	WSW
10/24/19 10:25	5	1.6	SE
10/24/19 10:31	5	0.7	SSW
10/24/19 10:37	7	1.9	SE
10/24/19 10:42	7	1.8	SE
10/24/19 10:48	7	1.2	NE
10/24/19 10:54	7	1.5	ESE
10/24/19 11:00	6	2.1	E
10/24/19 11:05	6	2.8	ESE
10/24/19 11:11	6	1.8	E
10/24/19 11:17	6	1.9	SSE
10/24/19 11:23	6	2.4	ESE
10/24/19 11:28	5	1.7	SE
10/24/19 11:34	5	1.3	SSE
10/24/19 11:40	5	2.0	SSE
10/24/19 11:46	5	3.7	SE
10/24/19 11:51	5	2.1	SSE
10/24/19 12:51	6	2.7	S
10/24/19 12:57	8	3.6	SW
10/24/19 13:03	8	7.6	W
10/24/19 13:08	8	3.1	SW
10/24/19 13:14	5	4.3	W
10/24/19 13:20	5	3.4	SSW
10/24/19 13:26	5	4.5	SSW
10/24/19 13:31	5	2.8	WSW
10/24/19 13:37	5	3.7	WSW
10/24/19 13:43	12	3.3	WSW
10/24/19 13:49	12	4.0	S
10/24/19 13:54	12	3.9	SSW
10/24/19 14:00	9	2.9	SW
10/24/19 14:06	12	3.0	SSW

NOTE: Wind Direction reported in the direction that the wind is coming from

10/24/19 14:12	14	3.0	WSW
10/24/19 14:17	14	3.8	W
10/24/19 14:23	5	4.6	W
10/24/19 14:29	6	3.1	SSW
10/24/19 14:35	6	3.5	SSW
10/24/19 14:40	6	4.8	SSW
10/24/19 14:46	6	4.8	W
10/24/19 14:52	6	4.4	SSW
10/24/19 14:58	6	3.5	SSW
10/24/19 15:03	3	4.1	SSW
10/24/19 15:09	3	4.8	SSW
10/24/19 15:15	3	4.1	S
10/24/19 15:21	3	4.2	S
10/24/19 15:26	4	3.9	SW
10/24/19 15:32	4	4.7	S
10/24/19 15:38	4	2.7	S
10/24/19 15:44	4	2.4	S
10/24/19 15:49	3	2.7	S
10/24/19 15:55	3	2.4	SSE
10/24/19 16:38	3	3.8	SSE
10/24/19 16:44	4	2.9	SSE
10/24/19 16:50	3	1.5	S
10/24/19 16:56	4	1.5	S
10/24/19 17:01	4	3.4	SSE
10/24/19 17:07	4	3.1	S
10/24/19 17:13	3	2.8	SSE
10/24/19 17:19	3	1.8	S
10/24/19 17:24	3	2.5	S
10/24/19 17:30	3	1.3	SSE
10/24/19 17:36	3	1.6	SSW
10/24/19 17:42	5	1.6	SSE
10/24/19 17:47	6	1.8	SSW
10/24/19 17:53	6	1.3	SSW
10/24/19 17:59	7	0.9	SSW
10/24/19 18:05	7	1.5	SSW
10/24/19 18:10	7	0.7	SSW
10/24/19 18:16	8	1.0	S
10/24/19 18:22	8	1.2	S
10/24/19 18:28	8	0.9	SW
10/24/19 18:33	8	1.4	S
10/24/19 18:39	7	2.2	S
10/24/19 18:45	6	1.7	SSW
10/24/19 18:51	7	1.4	SSW
10/24/19 18:56	4	1.8	SW
10/24/19 19:02	4	1.7	SSW
10/24/19 19:08	4	1.7	SSW
10/24/19 19:14	4	2.7	SSW

NOTE: Wind Direction reported in the direction that the wind is coming from

10/24/19 19:19	3	1.4	SW
10/24/19 19:25	3	1.9	SSW
10/24/19 19:31	3	1.0	S
10/24/19 19:37	3	1.6	SSW
10/24/19 19:42	4	2.1	SSW
10/24/19 19:48	6	1.5	SSW
10/24/19 19:54	6	1.7	SW
10/24/19 20:00	6	1.4	WSW
10/24/19 20:05	5	2.3	SW
10/24/19 20:11	5	2.3	SW
10/24/19 20:17	5	1.6	SW
10/24/19 20:23	5	2.9	SSW
10/24/19 20:28	5	3.6	SSW
10/24/19 20:34	5	2.5	SSW
10/24/19 20:40	4	4.3	SSW
10/24/19 20:46	5	4.1	SSW
10/24/19 20:51	3	1.3	SW
10/24/19 20:57	3	3.2	SSW
10/24/19 21:03	3	2.5	SSW
10/24/19 21:09	4	2.1	SSW
10/24/19 21:14	3	1.2	SW
10/24/19 21:20	3	2.0	SSW
10/24/19 21:26	4	2.0	SSW
10/24/19 21:32	3	0.8	SSW
10/24/19 21:37	3	1.6	SW
10/24/19 21:43	5	1.5	SSW
10/24/19 21:49	6	1.5	SW
10/24/19 21:55	6	1.4	SW
10/24/19 22:00	7	1.0	SW
10/24/19 22:06	7	0.8	SW
10/24/19 22:12	7	1.2	WSW
10/24/19 22:18	8	1.5	WSW
10/24/19 22:23	10	1.4	SW
10/24/19 22:29	12	1.7	SW
10/24/19 22:35	12	1.2	SW
10/24/19 22:41	23	1.6	SW
10/24/19 22:46	30	1.6	SW
10/24/19 22:52	33	2.0	SW
10/24/19 22:58	38	2.5	SSW
10/24/19 23:04	38	2.1	SW
10/24/19 23:09	38	2.1	SSW
10/24/19 23:15	34	1.9	SSW
10/24/19 23:21	19	1.9	SSW
10/24/19 23:27	19	1.4	SW
10/24/19 23:32	28	1.8	SW
10/24/19 23:38	28	1.1	SW
10/24/19 23:44	61	1.5	SSW

NOTE: Wind Direction reported in the direction that the wind is coming from

10/24/19 23:49	85	1.7	SW
10/24/19 23:55	85	1.7	SW

NOTE: Wind Direction reported in the direction that the wind is coming from

Daily H ₂ S Readings at MS2 - Keegan Landfill Monitoring			
Date/Time	MS-2 -- Hydrogen Sulfide (ppb)	Wind Speed (mph)	Wind Direction
10/25/19 0:01	61	2.3	SSW
10/25/19 0:07	43	2.6	SSW
10/25/19 0:13	26	1.2	SSW
10/25/19 0:18	26	1.5	SSW
10/25/19 0:24	28	1.8	SSW
10/25/19 0:30	28	1.6	SSW
10/25/19 0:36	65	1.9	SW
10/25/19 0:41	71	1.3	SSW
10/25/19 0:47	71	1.4	SSW
10/25/19 0:53	71	0.9	WSW
10/25/19 0:59	69	1.3	SW
10/25/19 1:04	49	1.4	SSW
10/25/19 1:10	21	1.1	SW
10/25/19 1:16	21	1.1	SSW
10/25/19 1:22	17	1.5	SW
10/25/19 1:27	17	1.9	SSW
10/25/19 1:33	17	1.3	SW
10/25/19 1:39	36	1.7	SSW
10/25/19 1:44	51	0.8	SSW
10/25/19 1:50	83	1.0	SW
10/25/19 1:56	83	2.1	SW
10/25/19 2:02	83	1.2	SW
10/25/19 2:07	120	1.0	SW
10/25/19 2:13	120	1.2	S
10/25/19 2:19	130	1.2	S
10/25/19 2:25	130	0.4	W
10/25/19 2:31	130	0.8	WSW
10/25/19 2:36	120	1.0	S
10/25/19 2:42	24	0.4	SSW
10/25/19 2:48	24	0.5	WSW
10/25/19 2:54	24	1.1	W
10/25/19 2:59	42	1.2	WSW
10/25/19 3:05	88	1.6	W
10/25/19 3:11	88	1.4	WNW
10/25/19 3:17	88	0.8	W
10/25/19 3:22	84	0.7	W
10/25/19 3:28	25	1.3	W
10/25/19 3:34	17	0.7	WNW
10/25/19 3:40	11	1.0	W
10/25/19 3:45	11	0.8	W
10/25/19 3:51	11	1.1	W
10/25/19 3:57	16	1.0	W
10/25/19 4:03	22	0.8	S
10/25/19 4:08	24	0.9	S

NOTE: Wind Direction reported in the direction that the wind is coming from

10/25/19 4:14	30	0.6	W
10/25/19 4:20	51	0.8	SSW
10/25/19 4:26	51	0.6	SSW
10/25/19 4:31	51	0.8	WNW
10/25/19 4:37	40	1.3	WNW
10/25/19 4:43	21	1.2	W
10/25/19 4:49	20	0.7	WNW
10/25/19 4:54	17	0.7	W
10/25/19 5:00	16	0.7	W
10/25/19 5:06	16	1.1	W
10/25/19 5:12	8	1.0	W
10/25/19 5:17	8	0.5	SSW
10/25/19 5:23	8	0.6	W
10/25/19 5:29	5	1.0	WNW
10/25/19 5:35	5	1.6	W
10/25/19 5:40	5	0.9	SSE
10/25/19 5:46	12	0.7	S
10/25/19 5:52	61	0.3	SSW
10/25/19 5:58	61	1.0	W
10/25/19 6:03	61	0.9	S
10/25/19 6:09	53	0.7	WSW
10/25/19 6:15	53	1.2	W
10/25/19 6:21	53	1.1	W
10/25/19 6:26	51	1.3	W
10/25/19 6:32	51	1.0	W
10/25/19 6:38	39	0.2	NNW
10/25/19 6:44	10	0.7	W
10/25/19 6:49	10	0.3	W
10/25/19 6:55	10	0.7	SSW
10/25/19 7:01	6	0.4	WSW
10/25/19 7:07	10	1.2	S
10/25/19 7:12	10	0.4	SSW
10/25/19 7:18	23	0.3	W
10/25/19 7:24	43	0.6	SW
10/25/19 7:29	72	0.5	W
10/25/19 7:35	72	1.0	WNW
10/25/19 7:41	88	1.0	W
10/25/19 7:47	88	1.3	W
10/25/19 7:53	69	1.0	W
10/25/19 7:58	62	0.4	SW
10/25/19 8:04	10	0.4	SW
10/25/19 8:10	6	0.4	WSW
10/25/19 8:16	6	0.8	W
10/25/19 8:21	6	0.8	WSW
10/25/19 8:27	14	0.4	WSW
10/25/19 8:33	14	1.0	WNW
10/25/19 8:39	14	0.8	WNW

NOTE: Wind Direction reported in the direction that the wind is coming from

10/25/19 8:44	14	0.8	W
10/25/19 8:50	11	0.5	WSW
10/25/19 8:56	9	0.7	WNW
10/25/19 9:02	7	0.8	NNW
10/25/19 9:07	6	1.1	N
10/25/19 9:13	4	1.4	N
10/25/19 9:19	4	1.6	NNE
10/25/19 9:25	4	1.6	N
10/25/19 9:30	4	2.1	N
10/25/19 9:36	4	2.0	NNE
10/25/19 9:42	4	1.7	NNE
10/25/19 9:48	4	2.0	NNE
10/25/19 9:53	4	1.5	NE
10/25/19 9:59	3	1.3	NE
10/25/19 10:55	4	3.4	E
10/25/19 11:01	4	2.8	E
10/25/19 11:07	4	3.5	ESE
10/25/19 11:13	4	2.7	E
10/25/19 11:18	4	2.7	ESE
10/25/19 11:24	4	2.5	E
10/25/19 11:30	4	2.0	ESE
10/25/19 11:36	4	1.5	ESE
10/25/19 11:41	5	2.1	E
10/25/19 11:47	5	1.8	ESE
10/25/19 11:53	5	1.6	E
10/25/19 11:59	5	1.5	E
10/25/19 12:04	5	1.3	E
10/25/19 12:10	5	1.5	ENE
10/25/19 12:16	5	1.9	ENE
10/25/19 12:22	5	1.8	ENE
10/25/19 12:27	5	1.9	NE
10/25/19 12:33	5	0.9	NE
10/25/19 12:39	5	1.5	NNE
10/25/19 12:45	5	1.9	NE
10/25/19 12:50	6	1.7	ESE
10/25/19 12:56	6	1.4	NE
10/25/19 13:02	6	1.3	NE
10/25/19 13:08	6	1.1	NNE
10/25/19 13:13	6	1.0	ENE
10/25/19 13:19	6	2.3	SSE
10/25/19 13:25	6	2.9	ESE
10/25/19 13:31	6	2.5	SE
10/25/19 13:36	6	1.9	S
10/25/19 13:42	6	1.5	SSE
10/25/19 13:48	6	2.7	SSW
10/25/19 13:54	6	2.0	S
10/25/19 13:59	6	2.3	S

NOTE: Wind Direction reported in the direction that the wind is coming from

10/25/19 14:05	6	2.2	S
10/25/19 14:11	6	1.8	SSE
10/25/19 14:17	6	2.5	SE
10/25/19 14:22	6	1.2	SSE
10/25/19 14:28	6	1.4	S
10/25/19 14:34	6	2.4	S
10/25/19 14:40	6	2.0	S
10/25/19 14:45	5	1.8	SSE
10/25/19 14:51	6	2.7	S
10/25/19 14:57	6	2.5	SSW
10/25/19 15:03	5	1.1	SSE
10/25/19 15:08	5	3.2	SSW
10/25/19 15:14	5	1.6	SSW
10/25/19 15:20	5	1.9	SSW
10/25/19 15:26	5	1.2	SW
10/25/19 15:31	5	3.1	SSW
10/25/19 15:37	4	1.1	SSE
10/25/19 15:43	4	2.1	S
10/25/19 15:49	4	1.4	S
10/25/19 15:54	4	2.1	SSE
10/25/19 16:00	4	2.7	S
10/25/19 16:06	4	2.1	SSE
10/25/19 16:12	4	2.0	SSE
10/25/19 16:17	3	3.0	SE
10/25/19 16:23	3	2.1	S
10/25/19 16:29	3	2.6	S
10/25/19 16:35	3	2.1	S
10/25/19 16:40	3	1.4	S
10/25/19 16:46	2	1.7	SSE
10/25/19 16:52	2	2.3	S
10/25/19 16:58	2	2.5	SSE
10/25/19 17:03	2	2.2	SSE
10/25/19 17:21	2	0.8	SW
10/25/19 17:26	2	0.7	SSW
10/25/19 17:32	2	1.3	S
10/25/19 17:38	2	1.6	SSE
10/25/19 17:44	2	1.2	S
10/25/19 17:49	2	1.0	SW
10/25/19 17:55	2	0.8	SSW
10/25/19 18:01	2	0.7	SW
10/25/19 18:07	4	0.7	W
10/25/19 18:12	4	0.9	W
10/25/19 18:18	4	0.5	NNE
10/25/19 18:24	4	0.7	WNW
10/25/19 18:30	4	0.4	SSW
10/25/19 18:35	4	0.8	SSW
10/25/19 18:41	4	0.5	WSW

NOTE: Wind Direction reported in the direction that the wind is coming from

10/25/19 18:47	4	0.6	SSW
10/25/19 18:53	4	0.6	WNW
10/25/19 18:58	4	1.0	WSW
10/25/19 19:04	3	0.4	WNW
10/25/19 19:10	3	0.4	WSW
10/25/19 19:16	3	0.5	WNW
10/25/19 19:21	3	1.1	W
10/25/19 19:27	3	0.8	SSW
10/25/19 19:33	3	0.8	SW
10/25/19 19:39	3	0.7	WSW
10/25/19 19:44	3	0.8	W
10/25/19 19:50	4	0.9	W
10/25/19 19:56	4	1.0	W
10/25/19 20:02	4	1.8	SW
10/25/19 20:07	4	1.5	SW
10/25/19 20:13	4	1.4	SW
10/25/19 20:19	5	1.8	SW
10/25/19 20:25	5	1.2	SW
10/25/19 20:30	4	1.4	SW
10/25/19 20:36	3	1.8	SSW
10/25/19 20:42	5	2.8	SW
10/25/19 20:48	5	1.9	SSW
10/25/19 20:53	4	1.4	S
10/25/19 20:59	4	1.9	SSW
10/25/19 21:05	5	1.4	SW
10/25/19 21:11	5	1.3	WSW
10/25/19 21:16	6	1.4	SW
10/25/19 21:22	19	1.9	WSW
10/25/19 21:28	19	2.7	SW
10/25/19 21:34	23	1.9	W
10/25/19 21:39	19	2.0	W
10/25/19 21:45	17	1.9	W
10/25/19 21:51	17	1.5	SW
10/25/19 21:57	17	2.0	WSW
10/25/19 22:02	12	2.1	W
10/25/19 22:08	17	3.0	W
10/25/19 22:14	35	1.9	SW
10/25/19 22:20	46	1.7	SSW
10/25/19 22:25	46	2.2	SSW
10/25/19 22:31	46	2.1	SSW
10/25/19 22:37	29	2.6	SSW
10/25/19 22:43	29	2.7	SW
10/25/19 22:48	28	2.2	SSW
10/25/19 22:54	29	3.1	SW
10/25/19 23:00	34	2.3	S
10/25/19 23:06	34	1.9	SW
10/25/19 23:11	24	1.5	SSW

NOTE: Wind Direction reported in the direction that the wind is coming from

10/25/19 23:17	19	1.2	SW
10/25/19 23:23	19	2.3	SW
10/25/19 23:29	14	3.6	WSW
10/25/19 23:34	10	3.3	W
10/25/19 23:40	8	3.2	W
10/25/19 23:46	7	3.6	W
10/25/19 23:52	6	3.2	W
10/25/19 23:57	6	2.5	W

NOTE: Wind Direction reported in the direction that the wind is coming from

Attachment 4



