8 February 2019

Mr. Jason Pelton
New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials
625 Broadway
Albany, NY 12233-7252

**Subject: GROUNDWATER DISCHARGE MONITORING/AIR EMISSION REPORT GM-38 AREA, NWIRP BETHPAGE, NY; DER SITE # 1-30-003B-OU 2 JANUARY 2019 REPORTING PERIOD**

Dear Mr. Pelton:

KOMAN Government Solutions, LLC (KGS) is submitting this monthly monitoring report of the groundwater discharge and air emission results for the Groundwater Treatment Plant (GWTP) located at the Former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage, NY, GM-38 Area. This report was prepared in accordance with GWTP operational requirements for DER Site # 1-30-003B-OU 2, and the SPDES Permit Equivalent # 13003B.

GWTP operational data from 1 January to 31 January 2019 are presented in Attachment A. In the January reporting period, no significant downtime was recorded for the GM38.

As indicated in Attachment A, all SPDES permitted constituents were in compliance with regulatory guidelines during this reporting period.

Please contact me at 610-400-0622 with any questions or concerns you may have regarding this report.

Sincerely,

***KOMAN Government Solutions, LLC***

Stephane Roy
Project Manager

Attachment A: Groundwater and Air Sampling Results from January 2019

Cc: S. Edwards, NYSDEC
D. Hesler, NYSDEC
C. Haas, NYSDEC Region 1
W. Parish, NYSDEC Region 1
R. Wither, NYSDEC Division of Water

**KOMAN Government Solutions, LLC**
180 Gordon Drive, Suite 110
Exton, Pennsylvania 19341
Phone (610) 363-3000
Fax (610) 363-3001
www.komangs.com

J. Pilewski, NYSDEC – Region 1 Water Engineer
S. Karpinski, NYSDOH
J. Lovejoy, NCDH
L. Thantu, USEPA Region 2
G. Ennis, Nassau County Department of Public Works
S. Urban, Nassau County Department of Public Works
T. Licata, Town of Oyster Bay
M. Russo, Town of Oyster Bay
L. Fly, NAVFAC Mid-Atlantic
B. Murray, NAVFAC Mid-Atlantic RPM
G. Pearman, NWIRP Bethpage
GM-38 Copy

# ATTACHMENT A

# GROUNDWATER AND AIR SAMPLING RESULTS

# JANUARY 2019

**GM-38 Area Groundwater Remediation**
**Groundwater Treatment Plant**
**Naval Weapons Industrial Reserve Plant - Bethpage, NY**
**Discharge Monitoring Report**
**January 2019**

| SPDES Parameters | January 2019 (1) | | | | | |
|---|---|---|---|---|---|---|
| **Process Stream** | **Daily Treated Effluent Maximum(1)** | **Units** | **RW-1** | **RW-3 (2)** | **Combined Influent (3) (RW-1 + RW-3)** | **Treated Effluent** |
| Well Depth | N/A | ft | 445 | 530 | N/A | N/A |
| Screened Interval | N/A | ft bgs | 335-395<br>410-430 | 392-412<br>442-504 | N/A | N/A |
| Sampling Date | N/A | | 1/8/19 | | | |
| Effective Flowrate | 1100 | GPM | 657 | 178 | 836 | 887 |
| Total Flow | N/A | gallons | 29,332,100 | 7,967,200 | 37,299,300 | 39,585,100 |
| pH | 5.5 - 8.5 | SU | 5.06 | 5.14 | 5.08 | 6.16 |
| Chloroform | 5 | µg/L | 0.330 J | 0.300 J | 0.324 J | ND (1.0) |
| 1,1-Dichloroethane | 5 | µg/L | 1.39 | 1.82 | 1.48 | ND (1.0) |
| 1,2-Dichloroethane | 0.6 | µg/L | 0.230 J | ND (1.0) | 0.181 J | ND (1.0) |
| 1,1-Dichloroethene | 5 | µg/L | 0.910 J | 1.00 | 0.93 | ND (1.0) |
| cis 1,2-Dichloroethene | 5 | µg/L | 5.02 | 1.38 | 4.24 | ND (1.0) |
| trans 1,2-Dichloroethene | 5 | µg/L | ND (1.0) | ND (1.0) | ND (1.0) | ND (1.0) |
| Tetrachloroethene | 5 | µg/L | 16.7 | 0.390 J | 13.22 | ND (1.0) |
| 1,1,1-Trichloroethane | 5 | µg/L | 0.660 J | 0.600 J | 0.647 J | ND (1.0) |
| Trichloroethene | 5 | µg/L | 73.0 | 157 | 90.9 | ND (1.0) |
| 1,1,2-Trichlorotrifluoroethane | 5 | µg/L | ND (1.0) | 0.880 J | 0.19 J | ND (1.0) |
| Vinyl Chloride | 2 | µg/L | ND (1.0) | ND (1.0) | ND (1.0) | ND (1.0) |
| 1,4-Dioxane | -- | µg/L | NS | NS | NS | 3.1 |
| Mercury | 0.00025 | mg/L | ND (0.00010) | ND (0.00010) | ND (0.00010) | ND (0.00010) |
| Total Suspended Solids (TSS) | N/A | mg/L | ND (1.0) | 5.8 | 1.2 | ND (1.0) |

**Notes:**
J - Estimated result between laboratory method detection limit and reporting limit
D - Concentration is a result of a dilution.
ND - Not detected above laboratory method detection limit. Reporting Limit (RL) given in parentheses.
NR - Not Recorded
N/A - Not Applicable
NS - Not Sampled

(1) Wastewater discharge equivalence permit renewed on 18 August 2017. Discharge limits established for 10 years. Chloroform, 1,4-dioxane and 1,1,2-trichlorotrifluoroethane are now monitored under the new permit.

(2) Well RW-3 was placed back in operation on 1 June, 2018.
(3) Influent concentrations presented are the weighted average concentrations of RW-1 and RW-3.

**GM-38 Area Groundwater Remediation**
**Groundwater Treatment Plant**
**Naval Weapons Industrial Reserve Plant - Bethpage, NY**
**Air Sampling Results**
**January 2019**

| **DAR Parameters** | | **Discharge Goal** (1) | **January 2019** | |
|---|---|---|---|---|
| Process Stream | | | **Influent** | **Effluent** |
| Sampling Date | | | 1/8/19 | |
| Average Flowrate | CFM | N/A | NR | 9,420 |
| Total Flow | $ft^3$ | N/A | NR | 416,542,836 |
| Total Flow | $m^3$ | N/A | NR | 11,795,180 |
| 1,2-Dichloroethane | $\mu g/m^3$ | N/A | 2.5 J | ND |
| cis 1,2-Dichloroethene | $\mu g/m^3$ | > 100,000 (2) | 39 | 46 |
| trans 1,2-Dichloroethene | $\mu g/m^3$ | | ND | ND |
| 1,2-Dichloroethene (total) | $\mu g/m^3$ | >100,000 | 39 | 48 |
| Toluene | $\mu g/m^3$ | N/A | 0.52 J | 0.86 J |
| Total Xylene | $\mu g/m^3$ | N/A | ND | ND |
| 1,1,2-Trichloroethane | $\mu g/m^3$ | N/A | 1.7 J | ND |
| Trichloroethene | $\mu g/m^3$ | 2,600 | 1400 | 6.6 |
| Vinyl Chloride | $\mu g/m^3$ | 560 | ND | ND |
| Tetrachloroethene | $\mu g/m^3$ | 5,100 | 180 | ND |

Notes:
CFM - cubic feet per minute
DAR - Division of Air Resources
J - Estimated result between laboratory method detection limit and reporting limit
N/A - Not Applicable
NR - Not recorded
(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.
(2) Discharge goal is for total 1,2-Dichloroethene.

**GM-38 Area Groundwater Remediation**
**Groundwater Treatment Plant**
**Naval Weapons Industrial Reserve Plant - Bethpage, NY**
**Controlled Stack Emissions**
**January 2019**

| DAR Parameters | Units | Discharge Goal (1) | January 2019 |
|---|---|---|---|
| Sampling Date | | | 1/8/19 |
| Average Flowrate | CFM | N/A | 9,420 |
| Total Flow | $ft^3$ | N/A | 416,542,836 |
| Total Flow | $m^3$ | N/A | 11,795,180 |
| Trichloroethene | lb/hr | 0.09 | 0.00023 |
| Vinyl Chloride | lb/hr | 0.02 | 0.00000 |
| 1,2 Dichloroethene | lb/hr | 11 | 0.00168 |
| 1,2-Dichloroethane | lb/hr | N/A | 0.00000 |
| Toluene | lb/hr | N/A | 0.00003 |
| Total Xylene | lb/hr | N/A | 0.00000 |
| 1,1,2-Trichloroethane | lb/hr | N/A | 0.00000 |
| Tetrachloroethene | lb/hr | 0.18 | 0.00000 |

Notes:
CFM - cubic feet per minute
DAR - Division of Air Resources
N/A - Not Applicable
(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.