Appendix T

Upland Soils Summary

Louis Berger

December 19, 2018

Matthew Accardi
Bureau of Environmental Review and Assessment
Assistant General Counsel
Governor's Office of Storm Recovery
25 Beaver Street, 5th Floor
New York, NY 10004

**Re: Hempstead Lake State Park – Upland Soil Screening-Level Assessment Results**

Dear Mr. Accardi:

This letter summarizes the results of the screening-level assessment as requested by the Governor's Office of Storm Recovery for the upland soils proposed to be excavated and used as fill for emergent wetland creation in the Northeast Pond for the Hempstead Lake Park project (Figure 1).

On November 29 and 30, 2018, Louis Berger mobilized to the site to complete the proposed soil sampling outlined in our November 26, 2018 Upland Soil Sampling Work Plan. In summary, a total of eight (8) soil borings were completed via hand auger and a total of 16 soil samples (two per boring) were collected. The soil samples were collected from the surface layers and at the depth for each proposed excavation area.

Table 1 summarizes collected samples/analytical requirements; Table 2 compares the upload soil data against New York State Department of Environmental Conservation (NYSDEC) Part 375 soil cleanup objectives (SCOs); Table 3 compares the upland soil data against NYSDEC Part 375 Protection of Ecological Resources and TOGS 5.1.9 Thresholds; Table 4 presents Quality Assurance/Quality Control analytical results; and Table 5 summarizes dioxin/furan analytical results against NYSDEC's Technical and Operational Guidance Series (TOGS) 5.1.9 Thresholds. Sampling locations are identified in Figure 2.

A summary of the soil analytical results are as follows:

- Volatile Organic Compounds (VOCs): Acetone was detected in 12 of the 16 samples analyzed and exceeded Part 375 Unrestricted Use SCOs in one (1) of those sample. However, acetone is a common laboratory contaminant and thus not believed to be present. All other VOC analytes were either non-detect or below all applicable SCOs. When compared to TOGS 5.1.9 Thresholds, the site-wide VOC data achieves Class A Thresholds.

- Semi-Volatile Organic Compounds (SVOCs): All SVOC analytes were either non-detect or below all applicable SCOs. When compared to TOGS 5.1.9 Thresholds, the site-wide SVOC data achieves Class A Thresholds.

- Inorganics: Only lead and mercury were identified at concentrations above Part 375 Unrestricted Use/Protection of Ecological Resources SCOs. All other inorganics were either non-detect or below applicable SCOs.
    - Lead exceeded at one (1) of the 16 sampling locations, HLSP-SB-4A (0'-2'). While this location exceeded Unrestricted Use SCOs, it did not exceed Residential SCOs. Furthermore,

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when viewed as a site-wide average, the average lead concentration is well below the Unrestricted Use SCO and TOGS Class A Threshold values.

- Mercury exceeded at three (3) of the 16 sampling locations, HLSP-SB-4A (0'-2'), HLSP-SB-7A (0'-2') and HLSP-SB-7B (2'-6'). However, as in the case of lead, none of these exceeded the Residential SCO, and when viewed on a site-wide average are below Unrestricted Use SCOs and TOGS 5.1.9 Class A Threshold values.

- Pesticides: All pesticide analytes were either non-detect or below all applicable SCOs. When compared to TOGS 5.1.9 Thresholds, the site-wide pesticide data achieves Class A Thresholds.

- Herbicides: Silvex was non-detect in all samples.

- Polychlorinated Biphenyls (PCBs): PCBs were non-detect in all samples. When compared to TOGS 5.1.9 Thresholds, the site-wide PCB data achieve Class A Thresholds.

- Dioxin/Furan: Dioxin analytical data is only comparable to TOGS 5.1.9 Soil Classes. Upon calculation of the Toxicity Equivalent (TEQ) sum of each dioxin/furan congener, four (4) of the five (5) dioxin/furan samples fell under Class A soils, with the remaining sample falling in the low end of Class B. When viewed as a site-wide average, the results achieve Class A thresholds.

Conclusion: Results identified only minor instances of lead (1 sample) and mercury (3 samples) that exceeded their applicable Unrestricted Use / Protection of Ecological Resources SCOs. However, they did not exceed Residential SCOs. When site-wide averages were used to compare against NYSDEC TOGS 5.1.9 Thresholds, the upland soils achieved Class A Thresholds indicating that no appreciable contamination was present. As such, the soil should be suitable for re-use on site.

If you have any questions, please do not hesitate to contact me at (212) 612-7973 or at egustafson@louisberger.com.

Sincerely,

Erik Gustafson

Principal Environmental Scientist

Cc: Niek Veraart, Jonathan Carey – Louis Berger

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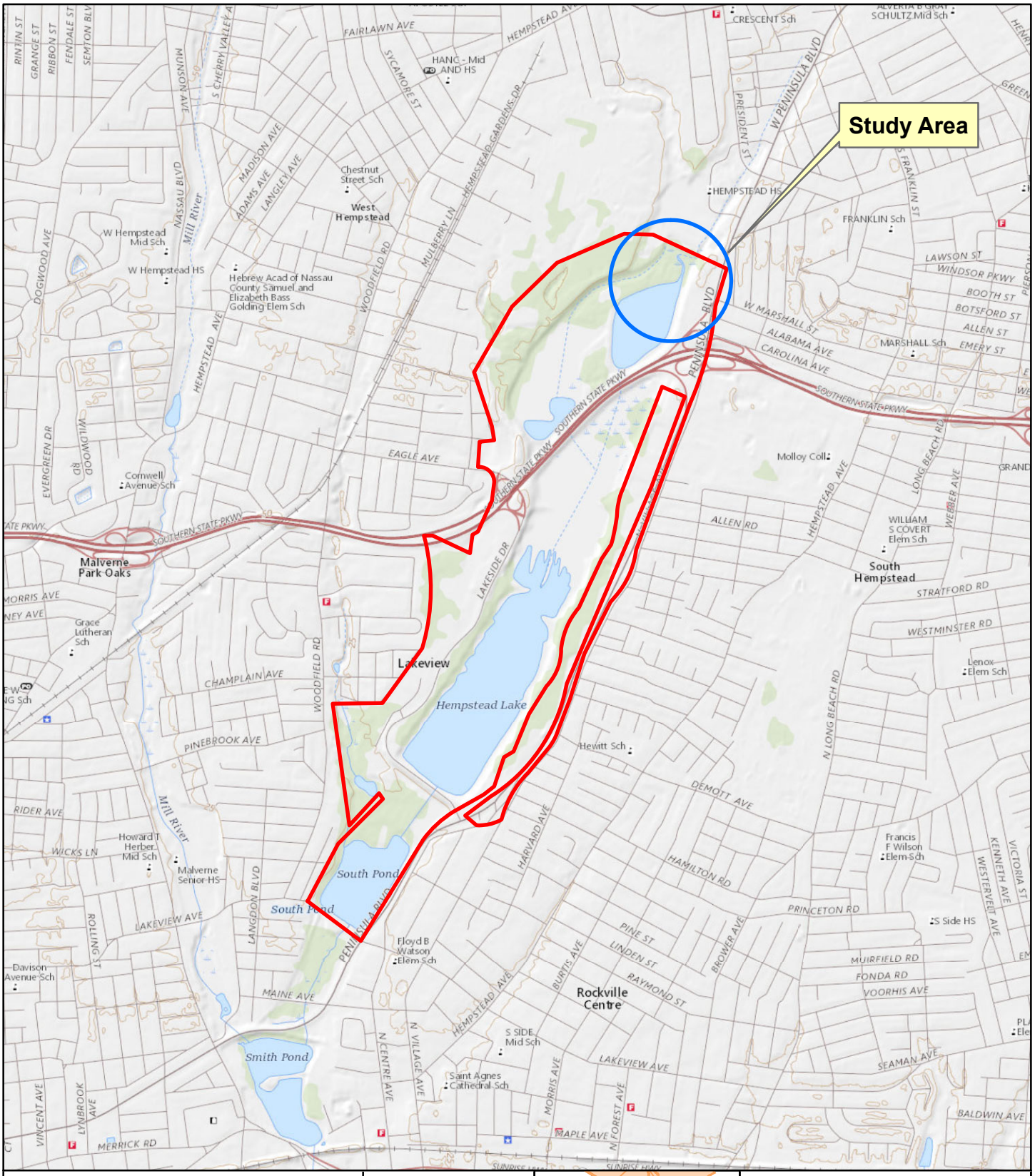
# FIGURES



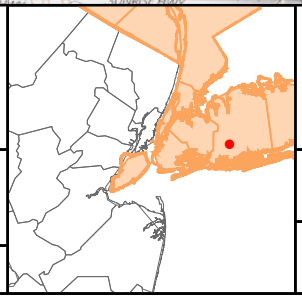

Study Area

Site Location

*Service Layer Credits: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic*

*Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet*

December 2018



# Figure 1
## Site Location Map
***Hempstead Lake State Park***

***Town of Hempstead, Nassau Count, New York***

Governor's Office of Storm Recovery

Louis Berger

0 1,300 2,600 Feet

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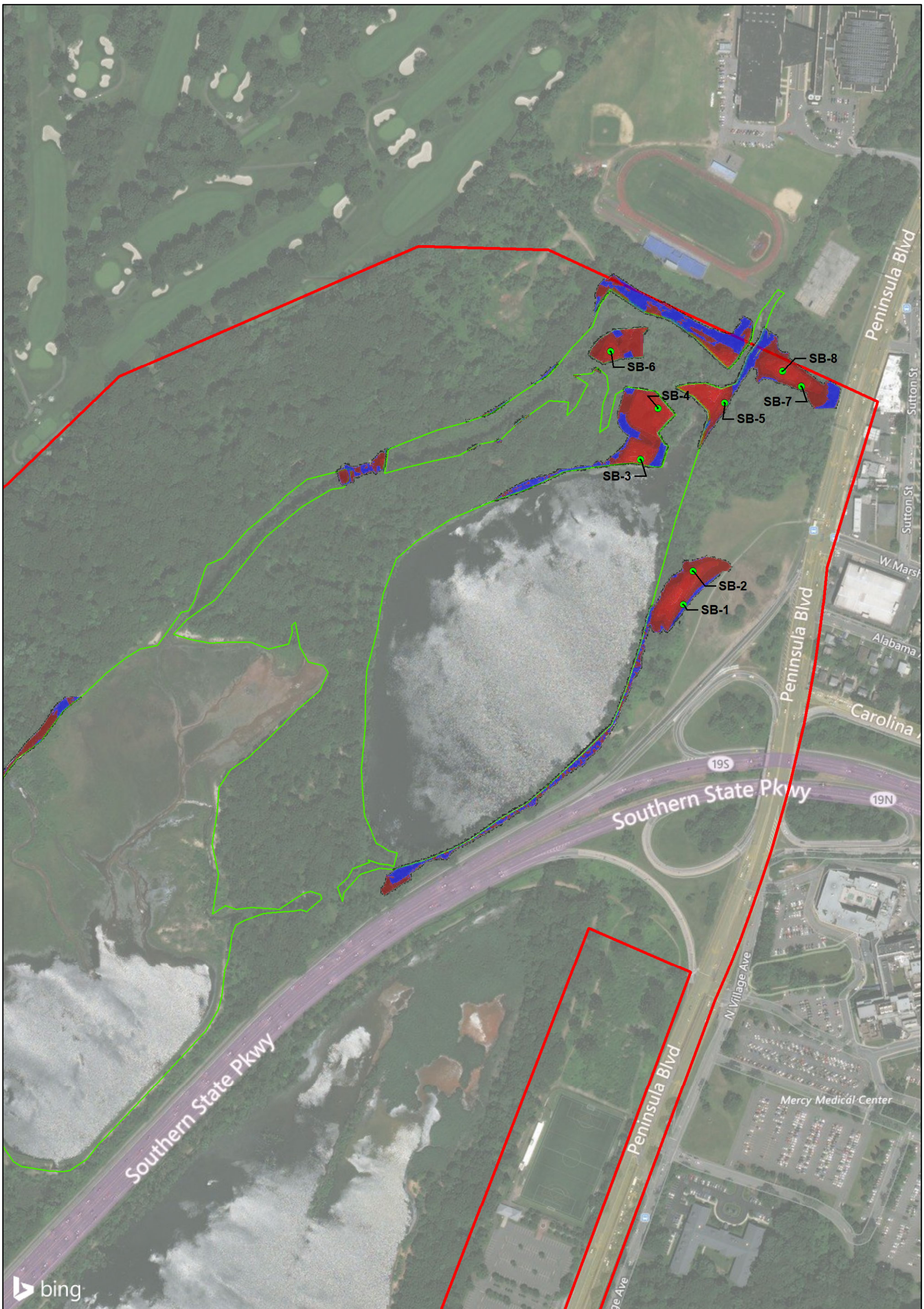


**Elevation Cut Fill Depths**

- -9.727 to -9.000
- -9.000 to -8.000
- -8.000 to -7.000
- -7.000 to -6.000
- -6.000 to -5.000
- -5.000 to -4.000
- -4.000 to -3.000
- -3.000 to -2.000
- -2.000 to -1.000
- -1.000 to 0.000
- 0.000 tot 11.993

- Wetlands Deliniation
- Project Area Boundary

*Service Layer Credits: © 2018 Microsoft Corporation © 2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS © 2018*

*Coordinate System: NAD 1983 StatePlane New York Long Island FIPS 3104 Feet*

December 2018

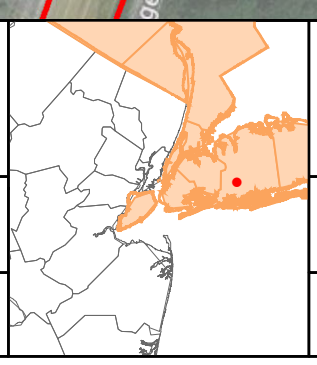

**Figure 2**
**Site Plan**
***Hempstead Lake State Park***
***Town of Hempstead, Nassau Count, New York***

Governor's Office of Storm Recovery

Louis Berger

0 150 300 Feet

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# TABLES

**Table 1**
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Summary**

| Location ID | Sample ID | Lab ID | Sample Depth (ft bgs) | Analytical Parameters | Sampling Method | Date |
|---|---|---|---|---|---|---|
| HLSP-SB-1A-(1) | HLSP-SB-1A-(1) | J6204-01 | 0.5 - 1.0 | VOC | Grab | 11/29/2018 |
| HLSP-SB-1A-(0-2) | HLSP-SB-1A-(0-2) | J6204-02 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC, Dioxin | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2.5) | J6204-03 | 2.0 - 2.5 | VOC | Grab | 11/29/2018 |
| HLSP-SB-1B-(2-6) | HLSP-SB-1B-(2-6) | J6204-04 | 2.0 - 6.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-2A-(1) | HLSP-SB-2A-(1) | J6204-05 | 0.5 - 1.0 | VOC | Grab | 11/29/2018 |
| HLSP-SB-2A-(0-2) | HLSP-SB-2A-(0-2) | J6204-06 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-2B-(4.5) | HLSP-SB-2B-(4.5) | J6204-07 | 4.0 - 4.5 | VOC | Grab | 11/29/2018 |
| HLSP-SB-2B-(2-9.75) | HLSP-SB-2B-(2-9.75) | J6204-08 | 2.0 - 9.75 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-3A-(1) | HLSP-SB-3A-(1) | J6206-16 | 0.5 - 1.0 | VOC | Grab | 11/30/2018 |
| HLSP-SB-3A-(0-2) | HLSP-SB-3A-(0-2) | J6206-17 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC, Dioxin | Stainless Steel Bowl Trowel | 11/30/2018 |
| HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2.5) | J6206-18 | 2.0 - 2.5 | VOC | Grab | 11/30/2018 |
| HLSP-SB-3B-(2-7.5) | HLSP-SB-3B-(2-7.5) | J6206-19 | 2.0 - 7.5 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/30/2018 |
| HLSP-SB-4A-(1) | HLSP-SB-4A-(1) | J6206-12 | 0.5 - 1.0 | VOC | Grab | 11/30/2018 |
| HLSP-SB-4A-(0-2) | HLSP-SB-4A-(0-2) | J6206-13 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/30/2018 |
| HLSP-SB-4B-(3.5) | HLSP-SB-4B-(3.5) | J6206-14 | 3.0 - 3.5 | VOC | Grab | 11/30/2018 |
| HLSP-SB-4B-(2-6) | HLSP-SB-4B-(2-6) | J6206-15 | 2.0 - 6.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/30/2018 |
| HLSP-SB-5A-(1) | HLSP-SB-5A-(1) | J6204-20 | 0.5 - 1.0 | VOC | Grab | 11/29/2018 |
| HLSP-SB-5A-(0-2) | HLSP-SB-5A-(0-2) | J6206-01 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-5B-(8.5) | HLSP-SB-5B-(8.5) | J6206-02 | 8.0 - 8.5 | VOC | Grab | 11/29/2018 |
| HLSP-SB-5B-(2-8.75) | HLSP-SB-5B-(2-8.75) | J6206-03 | 2.0 - 8.75 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC, Dioxin | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-6A-(1) | HLSP-SB-6A-(1) | J6206-08 | 0.5 - 1.0 | VOC | Grab | 11/30/2018 |
| HLSP-SB-6A-(0-2) | HLSP-SB-6A-(0-2) | J6206-09 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/30/2018 |
| HLSP-SB-6B-(5) | HLSP-SB-6B-(5) | J6206-10 | 4.5 - 5.0 | VOC | Grab | 11/30/2018 |
| HLSP-SB-6B-(2-5) | HLSP-SB-6B-(2-5) | J6206-11 | 2.0 - 5.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC, Dioxin | Stainless Steel Bowl Trowel | 11/30/2018 |
| HLSP-SB-7A-(1) | HLSP-SB-7A-(1) | J6204-10 | 0.5 - 1.0 | VOC | Grab | 11/29/2018 |
| HLSP-SB-7A-(0-2) | HLSP-SB-7A-(0-2) | J6204-11 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC, Dioxin | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2.5) | J6204-12 | 2.0 - 2.5 | VOC | Grab | 11/29/2018 |
| HLSP-SB-7B-(2-6) | HLSP-SB-7B-(2-6) | J6204-13 | 2.0 - 6.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-8A-(1) | HLSP-SB-8A-(1) | J6204-14 | 0.5 - 1.0 | VOC | Grab | 11/29/2018 |
| HLSP-SB-8A-(0-2) | HLSP-SB-8A-(0-2) | J6204-15 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/29/2018 |
| HLSP-SB-8B-(9.5) | HLSP-SB-8B-(9.5) | J6204-16 | 9.0 - 9.5 | VOC | Grab | 11/29/2018 |
| HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(2-9.75) | J6204-17 | 2.0 - 9.75 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/29/2018 |
| **QA/QC Samples** | | | | | | |
| HLSP-SB-8A-(1) | HLSP-DUP01-112918 | J6204-18 | 0.5 - 1.0 | VOC | Grab | 11/29/2018 |
| HLSP-SB-8A-(0-2) | HLSP-DUP01-112919 | J6204-19 | 0.0 - 2.0 | SVOC, Pesticides, Herbicides, PCBs, Metals, Grain Size, TOC | Stainless Steel Bowl Trowel | 11/29/2018 |
| Trip Blank | HLSP-TB1-113019 | J6206-21 | NA | VOC | NA | 11/30/2018 |
| Field Blank | HLSP-FB1-112918 | J6204-09 | NA | SVOC, Pesticides, Herbicides, PCBs, Metals, | NA | 11/29/2018 |

**Notes:**
- ft bgs = feet below ground surface
- NA = Not Applicable
- PCB= Polychlorinated Biphenyls
- VOC = Volatile Organic Compounds
- SVOC = Semi-Volatile Organic Compounds

# Table 2

*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | *Location ID* | HLSP-SB-1 | | | | HLSP-SB-2 | | | | HLSP-SB-3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-1A-(1) | HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2-6) | HLSP-SB-2A-(0-2) | HLSP-SB-2A-(1) | HLSP-SB-2B-(2-9.75 | HLSP-SB-2B-(4.5) | HLSP-SB-3A-(0-2) | HLSP-SB-3A-(1) | HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2-7.5) |
| | | | | | *Laboratory ID* | J6204-02 | J6204-01 | J6204-03 | J6204-04 | J6204-06 | J6204-05 | J6204-08 | J6204-07 | J6206-17 | J6206-16 | J6206-18 | J6206-19 |
| | | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 9.75 | 4.0 - 4.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 7.5 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | | | | | | | | |
| Aluminum | NC | NC | NC | NC | NC | **3,820** | NA | NA | **2,000** | **4,150** | NA | **1,810** | NA | **851** | NA | NA | **1,620** |
| Antimony | NC | NC | NC | NC | NC | 2.24 U | NA | NA | 2.25 U | 2.31 U | NA | 2.16 U | NA | 2.19 U | NA | NA | 2.27 U |
| Arsenic | 13 | 16 | 16 | 16 | 16 | **2.99** | NA | NA | **0.74 J** | **4.22** | NA | **0.217 J** | NA | **0.307 J** | NA | NA | **0.304 J** |
| Barium | 350 | 350 | 400 | 400 | 10,000 | **16.9** | NA | NA | **8.63** | **17.1** | NA | **8.53** | NA | **2.21 J** | NA | NA | **3.81 J** |
| Beryllium | 7.2 | 14 | 72 | 590 | 2,700 | **0.221 J** | NA | NA | **0.142 J** | **0.26 J** | NA | **0.138 J** | NA | 0.262 U | NA | NA | **0.072 J** |
| Cadmium | 2.5 | 2.5 | 4.3 | 9.3 | 60 | 0.269 U | NA | NA | 0.27 U | 0.277 U | NA | 0.259 U | NA | 0.262 U | NA | NA | 0.272 U |
| Calcium | NC | NC | NC | NC | NC | **216** | NA | NA | **71.2 J** | **79.1 J** | NA | **144** | NA | **15.1 J** | NA | NA | **28.4 J** |
| Chromium, Hexavalent | 1 | 22 | 110 | 400 | 800 | 0.423 U | NA | NA | 0.416 U | 0.435 U | NA | 0.421 U | NA | 0.427 U | NA | NA | 0.441 U |
| Chromium, Trivalent | 30 | 36 | 180 | 1500 | 6,800 | **5.13** | NA | NA | **4.94** | **5.96** | NA | **3.36** | NA | **2.33** | NA | NA | **4.44** |
| Chromium, Total | NC | NC | NC | NC | NC | **5.13** | NA | NA | **4.94** | **5.96** | NA | **3.36** | NA | **2.33** | NA | NA | **4.44** |
| Cobalt | NC | NC | NC | NC | NC | **2.18** | NA | NA | **1.9** | **2.17** | NA | **2.02** | NA | 1.31 U | NA | NA | **0.492 J** |
| Copper | 50 | 270 | 270 | 270 | 10,000 | **5.51** | NA | NA | **3.43** | **6.33** | NA | **3.71** | NA | **0.983** | NA | NA | **2.06** |
| Cyanide | NC | NC | NC | NC | 10,000 | **0.048 J** | NA | NA | **0.039 J** | **0.66** | NA | **0.043 J** | NA | 0.25 U | NA | NA | 0.26 U |
| Iron | NC | NC | NC | NC | NC | **6,740** | NA | NA | **4,730** | **6,880** | NA | **5,800** | NA | **641** | NA | NA | **2,260** |
| Lead | 63 | 400 | 400 | 1,000 | 3,900 | **23.5** | NA | NA | **5.86** | **17.1** | NA | **0.856** | NA | **4.31** | NA | NA | **1.77** |
| Magnesium | NC | NC | NC | NC | NC | **534** | NA | NA | **456** | **510** | NA | **533** | NA | **71.9 J** | NA | NA | **258** |
| Manganese | 1,600 | 2,000 | 2,000 | 10,000 | 10,000 | **140** | NA | NA | **92.6** | **147** | NA | **99.2** | NA | **3.16** | NA | NA | **15.7** |
| Mercury | 0.18 | 0.81 | 0.81 | 2.8 | 5.7 | **0.066** | NA | NA | **0.021** | **0.104** | NA | **0.008 J** | NA | **0.025** | NA | NA | **0.01 J** |
| Nickel | 30 | 140 | 310 | 310 | 10,000 | **4.03** | NA | NA | **3.32** | **4.72** | NA | **3.67** | NA | **0.883 J** | NA | NA | **2.25** |
| Potassium | NC | NC | NC | NC | NC | **166** | NA | NA | **214** | **130** | NA | **331** | NA | **47.1 J** | NA | NA | **137** |
| Selenium | 3.9 | 36 | 180 | 1,500 | 6,800 | 0.898 U | NA | NA | 0.9 U | 0.924 U | NA | 0.862 U | NA | 0.875 U | NA | NA | 0.907 U |
| Silver | 2 | 36 | 180 | 1,500 | 6,800 | 0.449 U | NA | NA | 0.45 U | 0.462 U | NA | 0.431 U | NA | 0.437 U | NA | NA | 0.454 U |
| Sodium | NC | NC | NC | NC | NC | **5.43 J** | NA | NA | 90 U | **3.46 J** | NA | **2.74 J** | NA | 87.5 U | NA | NA | 90.7 U |
| Thallium | NC | NC | NC | NC | NC | 1.8 U | NA | NA | 1.8 U | 1.85 U | NA | 1.72 U | NA | 1.75 U | NA | NA | 1.81 U |
| Vanadium | NC | NC | NC | NC | NC | **7.84** | NA | NA | **4.74** | **7.43** | NA | **4.42** | NA | **1.17 J** | NA | NA | **3.42** |
| Zinc | 109 | 2200 | 10,000 | 10,000 | 10,000 | **17.1** | NA | NA | **8.02** | **15.3** | NA | **6.96** | NA | **1.67 J** | NA | NA | **6.86** |
| **Pesticides** | | | | | | | | | | | | | | | | | |
| Aldrin | 0.005 | 0.019 | 0.097 | 0.68 | 1.4 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Alpha Bhc | 0.02 | 0.097 | 0.48 | 3.4 | 6.8 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Alpha Endosulfan | NC | 4.8 | 24 | 200 | 920 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Beta Bhc | 0.036 | 0.072 | 0.36 | 3 | 14 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Beta Endosulfan | 2.4 | 4.8 | 24 | 200 | 920 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Cis-Chlordane | 0.094 | 0.91 | 4.2 | 24 | 47 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Delta Bhc | 0.04 | 100 | 100 | 500 | 1000 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Dieldrin | 0.005 | 0.039 | 0.2 | 1.4 | 2.8 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Endosulfan Sulfate | 2.4 | 4.8 | 24 | 200 | 920 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Endrin | 0.014 | 2.2 | 11 | 89 | 410 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Endrin Aldehyde | NC | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Endrin Ketone | NC | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Gamma Bhc (Lindane) | 0.1 | 0.28 | 1.3 | 9.2 | 23 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Heptachlor | 0.042 | 0.42 | 2.1 | 15 | 29 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Heptachlor Epoxide | NC | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Methoxychlor | NC | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| P,P'-Ddd | 0.0033 | 2.6 | 13 | 92 | 180 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| P,P'-Dde | 0.0033 | 1.8 | 8.9 | 62 | 120 | **0.0009526 J** | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| P,P'-Ddt | 0.0033 | 1.7 | 7.9 | 47 | 94 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Toxaphene | NC | NC | NC | NC | NC | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Trans-Chlordane | 0.094 | NC | 4.2 | 24 | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| **Herbicides** | | | | | | | | | | | | | | | | | |
| Silvex (2,4,5-Tp) | NC | 58 | NC | NC | 1000 | 0.0721 U | NA | NA | 0.0703 U | 0.0738 U | NA | 0.0705 U | NA | 0.0713 U | NA | NA | 0.0741 U |

**Notes:**
- All are reported in parts per million (mg\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**
**- OR = Out of Range (waiting on updated results)**
**- Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

# Table 2

*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*

## Soil Sampling Analytical Results (SCOs)

| | | | | | *Location ID* | HLSP-SB-1 | | | | HLSP-SB-2 | | | | HLSP-SB-3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-1A-(1) | HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2-6) | HLSP-SB-2A-(0-2) | HLSP-SB-2A-(1) | HLSP-SB-2B-(2-9.75 | HLSP-SB-2B-(4.5) | HLSP-SB-3A-(0-2) | HLSP-SB-3A-(1) | HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2-7.5) |
| | | | | | *Laboratory ID* | J6204-02 | J6204-01 | J6204-03 | J6204-04 | J6204-06 | J6204-05 | J6204-08 | J6204-07 | J6206-17 | J6206-16 | J6206-18 | J6206-19 |
| | | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 9.75 | 4.0 - 4.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 7.5 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | | | |
| **Polychlorinated Biphenyls (PCBs)** | | | | | | | | | | | | | | | | | |
| Pcb-1016 (Aroclor 1016) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| Pcb-1221 (Aroclor 1221) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| Pcb-1232 (Aroclor 1232) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| Pcb-1242 (Aroclor 1242) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| Pcb-1248 (Aroclor 1248) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| Pcb-1254 (Aroclor 1254) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| Pcb-1260 (Aroclor 1260) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| Pcb-1262 (Aroclor 1262) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| Pcb-1268 (Aroclor 1268) | 0.1 | 1 | 1 | 1 | NC | 0.0183 U | ND | ND | 0.0179 U | 0.0187 U | ND | 0.0179 U | ND | 0.0181 U | ND | ND | 0.0188 U |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.68 | 100 | 100 | 500 | 1000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1,2,2-Tetrachloroethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1-Dichloroethane | 0.27 | 19 | 26 | 240 | 480 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1-Dichloroethene | 0.33 | 100 | 100 | 500 | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2,3-Trichlorobenzene | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2,4-Trichlorobenzene | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2,4-Trimethylbenzene | NC | 47 | NC | NC | 380 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dichlorobenzene | NC | 100 | 100 | 500 | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dichloroethane | 0.02 | 2.3 | 3.1 | 30 | 60 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,3,5-Trimethylbenzene (Mesitylene) | NC | 47 | NC | NC | 380 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,3-Dichlorobenzene | 2.4 | 17 | 49 | 280 | 560 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,4-Dichlorobenzene | 1.8 | 9.8 | 13 | 130 | 250 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 2-Hexanone | NC | NC | NC | NC | NC | NA | 0.0211 U | 0.027 U | NA | NA | 0.0249 U | NA | 0.0265 U | NA | 0.0414 U | 0.0302 U | NA |
| Acetone | 0.05 | 100 | 100 | 500 | 1,000 | NA | 0.0211 U | **0.0356** | NA | NA | 0.0249 U | NA | **0.0172 J** | NA | **0.0124 J** | **0.0514** | NA |
| Benzene | 0.06 | 2.9 | 4.8 | 44 | 89 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Bromochloromethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Bromodichloromethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Bromoform | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Bromomethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Carbon Disulfide | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Carbon Tetrachloride | 0.76 | 1.4 | 2.4 | 22 | 44 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Chlorobenzene | 1.1 | 100 | 100 | 500 | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Chloroethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Chloroform | 0.37 | 10 | 49 | 350 | 700 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Chloromethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Cis-1,2-Dichloroethylene | 0.25 | 59 | 100 | 500 | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Cis-1,3-Dichloropropene | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Cyclohexane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Dibromochloromethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Ethylbenzene | 1 | 30 | 41 | 390 | 780 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Isopropylbenzene (Cumene) | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| M,P-Xylene | 0.26 | NC | 100 | 500 | NC | NA | 0.0084 U | 0.0108 U | NA | NA | 0.0099 U | NA | 0.0106 U | NA | 0.0166 U | 0.0121 U | NA |
| Methyl Acetate | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Methyl Ethyl Ketone (2-Butanone) | 0.12 | 100 | 100 | 500 | 1,000 | NA | 0.0211 U | 0.027 U | NA | NA | 0.0249 U | NA | 0.0265 U | NA | 0.0414 U | 0.0302 U | NA |

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- J = Estimated Value
- NA = Not Analyzed
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- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

**Table 2**
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | *Location ID* | HLSP-SB-1 | | | | HLSP-SB-2 | | | | HLSP-SB-3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-1A-(1) | HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2-6) | HLSP-SB-2A-(0-2) | HLSP-SB-2A-(1) | HLSP-SB-2B-(2-9.75 | HLSP-SB-2B-(4.5) | HLSP-SB-3A-(0-2) | HLSP-SB-3A-(1) | HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2-7.5) |
| | | | | | *Laboratory ID* | J6204-02 | J6204-01 | J6204-03 | J6204-04 | J6204-06 | J6204-05 | J6204-08 | J6204-07 | J6206-17 | J6206-16 | J6206-18 | J6206-19 |
| | | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 9.75 | 4.0 - 4.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 7.5 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | | | |
| **VOCs (continued)** | | | | | | | | | | | | | | | | | |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | NC | NC | NC | NC | NC | NA | 0.0211 U | 0.027 U | NA | NA | 0.0249 U | NA | 0.0265 U | NA | 0.0414 U | 0.0302 U | NA |
| Methylcyclohexane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Methylene Chloride | 0.05 | NC | 100 | 500 | 1,000 | NA | **0.0021 J** | **0.0046 J** | NA | NA | **0.0045 J** | NA | **0.0074** | NA | **0.0195** | **0.0133** | NA |
| n-Butylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| N-Propylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| O-Xylene (1,2-Dimethylbenzene) | NC | NC | 100 | 500 | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Sec-Butylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Styrene | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| T-Butylbenzene | NC | NC | NC | NC | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Tert-Butyl Methyl Ether | 0.93 | 62 | 100 | 500 | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Tetrachloroethylene (Pce) | 1.3 | 5.5 | 19 | 150 | 300 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Toluene | 0.7 | 100 | 100 | 500 | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | **0.0021 J** | NA | **0.012** | 0.006 U | NA |
| Trans-1,2-Dichloroethene | 0.19 | 100 | 100 | 500 | 1,000 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Trans-1,3-Dichloropropene | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Trichloroethylene (Tce) | 0.47 | NC | 21 | 200 | 400 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Vinyl Chloride | 0.02 | NC | 0.9 | 13 | 27 | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Xylenes | 0.26 | 100 | 100 | 500 | 1000 | NA | 0.0126 U | 0.0162 U | NA | NA | 0.0149 U | NA | 0.0159 U | NA | 0.0249 U | 0.0181 U | NA |
| **Semi-Volatile Organic Compounds** | | | | | | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 1,4-Dioxane (P-Dioxane) | 0.1 | 9.8 | 13 | 130 | 250 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,3,4,6-Tetrachlorophenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4,5-Trichlorophenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4,6-Trichlorophenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4-Dichlorophenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4-Dimethylphenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4-Dinitrophenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4-Dinitrotoluene | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,6-Dinitrotoluene | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Chloronaphthalene | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Chlorophenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Methylnaphthalene | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Methylphenol (O-Cresol) | NC | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Nitroaniline | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Nitrophenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 3&4-Methylphenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 3,3'-Dichlorobenzidine | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 3-Nitroaniline | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4,6-Dinitro-2-Methylphenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Bromophenyl Phenyl Ether | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Chloro-3-Methylphenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Chloroaniline | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Chlorophenyl Phenyl Ether | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Nitroaniline | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Nitrophenol | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Acenaphthene | 20 | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Acenaphthylene | 100 | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Acetophenone | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Anthracene | 100 | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Atrazine | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |

**Notes:**
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- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**
**- OR = Out of Range (waiting on updated results)**
**- Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

**Table 2**
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | *Location ID* | HLSP-SB-1 | | | | HLSP-SB-2 | | | | HLSP-SB-3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-1A-(1) | HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2-6) | HLSP-SB-2A-(0-2) | HLSP-SB-2A-(1) | HLSP-SB-2B-(2-9.75 | HLSP-SB-2B-(4.5) | HLSP-SB-3A-(0-2) | HLSP-SB-3A-(1) | HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2-7.5) |
| | | | | | *Laboratory ID* | J6204-02 | J6204-01 | J6204-03 | J6204-04 | J6204-06 | J6204-05 | J6204-08 | J6204-07 | J6206-17 | J6206-16 | J6206-18 | J6206-19 |
| | | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 9.75 | 4.0 - 4.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 7.5 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | | | |
| **SVOCs (continued)** | | | | | | | | | | | | | | | | | |
| Benzaldehyde | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(A)Anthracene | 1 | 1 | 1 | 5.6 | 11 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(A)Pyrene | 1 | 1 | 1 | 1 | 1.1 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(B)Fluoranthene | 1 | 1 | 1 | 5.6 | 11 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(G,H,I)Perylene | 100 | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(K)Fluoranthene | 0.8 | 1 | 3.9 | 56 | 110 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzyl Butyl Phthalate | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Biphenyl (Diphenyl) | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Bis(2-Chloroethoxy) Methane | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether) | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Bis(2-Chloroisopropyl) Ether | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Bis(2-Ethylhexyl) Phthalate | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Caprolactam | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Carbazole | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Chrysene | 1 | 1 | 3.9 | 56 | 110 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Dibenz(A,H)Anthracene | 0.33 | 0.33 | 0.33 | 0.56 | 1.1 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Dibenzofuran | 7 | 14 | 59 | 350 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Diethyl Phthalate | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Dimethyl Phthalate | NC | NC | NC | NC | NC | **0.31 J** | NA | NA | **0.16 J** | **0.52** | NA | **0.48** | NA | **0.15 J** | NA | NA | **0.18 J** |
| Di-N-Butyl Phthalate | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Di-N-Octylphthalate | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Fluoranthene | 100 | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Fluorene | 30 | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Hexachlorobenzene | 0.33 | 0.33 | 1.2 | 6 | 12 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Hexachlorobutadiene | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Hexachlorocyclopentadiene | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Hexachloroethane | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Indeno(1,2,3-C,D)Pyrene | 0.5 | 0.5 | 0.5 | 5.6 | 11 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Isophorone | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Naphthalene | 12 | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Nitrobenzene | NC | NC | 15 | 69 | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| N-Nitrosodi-N-Propylamine | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| N-Nitrosodiphenylamine | NC | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Pentachlorophenol | 0.8 | 2.4 | 6.7 | 6.7 | 55 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Phenanthrene | 100 | NC | 100 | 500 | 500 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Phenol | 0.33 | 100 | 100 | 500 | 1,000 | **0.17 J** | NA | NA | **0.21 J** | **0.27 J** | NA | **0.26 J** | NA | **0.17 J** | NA | NA | **0.22 J** |
| Pyrene | 100 | 100 | 100 | 500 | 1,000 | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| **General Chemistry** | | | | | | | | | | | | | | | | | |
| Total Organic Carbon | NC | NC | NC | NC | NC | **6,440** | NA | NA | **891** | **5,870** | NA | **781** | NA | **10,781** | NA | NA | **5,080** |

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# Table 2

*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | *Location ID* | HLSP-SB-4 | | | | HLSP-SB-5 | | | | HLSP-SB-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-4A-(0-2) | HLSP-SB-4A-(1) | HLSP-SB-4B-(2-6) | HLSP-SB-4B-(3.5) | HLSP-SB-5A-(0-2) | HLSP-SB-5A-(1) | HLSP-SB-5B-(2-8.75 | HLSP-SB-5B-(8.5) | HLSP-SB-6A-(0-2) | HLSP-SB-6A-(1) | HLSP-SB-6B-(2-5) | HLSP-SB-6B-(5) |
| | | | | | *Laboratory ID* | J6206-13 | J6206-12 | J6206-15 | J6206-14 | J6206-01 | J6204-20 | J6206-03 | J6206-02 | J6206-09 | J6206-08 | J6206-11 | J6206-10 |
| | | | | | *Sample Date* | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 6.0 | 3.0 - 3.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 8.75 | 8.0 - 8.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 5.0 | 4.5 - 5.0 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | | | | | | | | |
| Aluminum | NC | NC | NC | NC | NC | **5,090** | NA | **2,160** | NA | **1,810** | NA | **2,970** | NA | **848** | NA | **1,060** | NA |
| Antimony | NC | NC | NC | NC | NC | **0.997 J** | NA | 2.45 U | NA | 2.24 U | NA | 2.38 U | NA | 2.21 U | NA | 2.37 U | NA |
| Arsenic | 13 | 16 | 16 | 16 | 16 | **10.7** | NA | **0.453 J** | NA | **1.17** | NA | **0.775 J** | NA | **0.596 J** | NA | 0.948 U | NA |
| Barium | 350 | 350 | 400 | 400 | 10,000 | **19.9** | NA | **11.6** | NA | **4.46 J** | NA | **6.07** | NA | **3.98 J** | NA | **4.52 J** | NA |
| Beryllium | 7.2 | 14 | 72 | 590 | 2,700 | **0.241 J** | NA | **0.113 J** | NA | **0.081 J** | NA | **0.115 J** | NA | 0.266 U | NA | 0.284 U | NA |
| Cadmium | 2.5 | 2.5 | 4.3 | 9.3 | 60 | 0.334 U | NA | 0.294 U | NA | 0.269 U | NA | 0.285 U | NA | 0.266 U | NA | 0.284 U | NA |
| Calcium | NC | NC | NC | NC | NC | **146** | NA | **45.6 J** | NA | **34.4 J** | NA | **51.2 J** | NA | **55.6 J** | NA | **30.2 J** | NA |
| Chromium, Hexavalent | 1 | 22 | 110 | 400 | 800 | 0.539 U | NA | 0.459 U | NA | 0.43 U | NA | 0.449 U | NA | 0.423 U | NA | 0.453 U | NA |
| Chromium, Trivalent | 30 | 36 | 180 | 1500 | 6,800 | **10.13** | NA | **7.85** | NA | **20.8** | NA | **6.21** | NA | **8.65** | NA | **3.32** | NA |
| Chromium, Total | NC | NC | NC | NC | NC | **10.13** | NA | **7.85** | NA | **20.8** | NA | **6.21** | NA | **8.65** | NA | **3.32** | NA |
| Cobalt | NC | NC | NC | NC | NC | **2.31** | NA | **0.89 J** | NA | **0.743 J** | NA | **1.52** | NA | **0.446 J** | NA | **1.58** | NA |
| Copper | 50 | 270 | 270 | 270 | 10,000 | **20.9** | NA | **1.66** | NA | **5.82** | NA | **2.52** | NA | **4.28** | NA | **1.15** | NA |
| Cyanide | NC | NC | NC | NC | 10,000 | **0.33** | NA | 0.29 U | NA | **0.084 J** | NA | 0.26 U | NA | 0.25 U | NA | **0.061 J** | NA |
| Iron | NC | NC | NC | NC | NC | **26,300** | NA | **3,050** | NA | **5,130** | NA | **3,720** | NA | **1060** | NA | **1,210** | NA |
| Lead | 63 | 400 | 400 | 1,000 | 3,900 | **163** | NA | **4.63** | NA | **18.9** | NA | **3.59** | NA | **26.9** | NA | **1.99** | NA |
| Magnesium | NC | NC | NC | NC | NC | **701** | NA | **301** | NA | **215** | NA | **444** | NA | **110** | NA | **164** | NA |
| Manganese | 1,600 | 2,000 | 2,000 | 10,000 | 10,000 | **46.9** | NA | **13.5** | NA | **59.9** | NA | **40.6** | NA | **16.9** | NA | **91** | NA |
| Mercury | 0.18 | 0.81 | 0.81 | 2.8 | 5.7 | **0.258** | NA | **0.015** | NA | **0.041** | NA | **0.019** | NA | **0.028** | NA | **0.007 J** | NA |
| Nickel | 30 | 140 | 310 | 310 | 10,000 | **5.19** | NA | **3.67** | NA | **1.82** | NA | **4.32** | NA | **3** | NA | **2.25** | NA |
| Potassium | NC | NC | NC | NC | NC | **185** | NA | **125** | NA | **108** | NA | **123** | NA | **91.3** | NA | **160** | NA |
| Selenium | 3.9 | 36 | 180 | 1,500 | 6,800 | 1.11 U | NA | 0.98 U | NA | 0.895 U | NA | 0.95 U | NA | 0.885 U | NA | 0.948 U | NA |
| Silver | 2 | 36 | 180 | 1,500 | 6,800 | 0.557 U | NA | 0.49 U | NA | 0.448 U | NA | 0.475 U | NA | 0.443 U | NA | 0.474 U | NA |
| Sodium | NC | NC | NC | NC | NC | **14.8 J** | NA | **3.29 J** | NA | 89.5 U | NA | **11.5 J** | NA | 88.5 U | NA | 94.8 U | NA |
| Thallium | NC | NC | NC | NC | NC | 2.23 U | NA | 1.96 U | NA | 1.79 U | NA | 1.9 U | NA | 1.77 U | NA | 1.9 U | NA |
| Vanadium | NC | NC | NC | NC | NC | **17.5** | NA | **2.96** | NA | **7.28** | NA | **4.71** | NA | **3.04** | NA | **1.47 J** | NA |
| Zinc | 109 | 2200 | 10,000 | 10,000 | 10,000 | **27.4** | NA | **5.61** | NA | **12.6** | NA | **10.91** | NA | **5.08** | NA | **5.78** | NA |
| **Pesticides** | | | | | | | | | | | | | | | | | |
| Aldrin | 0.005 | 0.019 | 0.097 | 0.68 | 1.4 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Alpha Bhc | 0.02 | 0.097 | 0.48 | 3.4 | 6.8 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Alpha Endosulfan | NC | 4.8 | 24 | 200 | 920 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Beta Bhc | 0.036 | 0.072 | 0.36 | 3 | 14 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Beta Endosulfan | 2.4 | 4.8 | 24 | 200 | 920 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Cis-Chlordane | 0.094 | 0.91 | 4.2 | 24 | 47 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Delta Bhc | 0.04 | 100 | 100 | 500 | 1000 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Dieldrin | 0.005 | 0.039 | 0.2 | 1.4 | 2.8 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Endosulfan Sulfate | 2.4 | 4.8 | 24 | 200 | 920 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Endrin | 0.014 | 2.2 | 11 | 89 | 410 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Endrin Aldehyde | NC | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Endrin Ketone | NC | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Gamma Bhc (Lindane) | 0.1 | 0.28 | 1.3 | 9.2 | 23 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Heptachlor | 0.042 | 0.42 | 2.1 | 15 | 29 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Heptachlor Epoxide | NC | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Methoxychlor | NC | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| P,P'-Ddd | 0.0033 | 2.6 | 13 | 92 | 180 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| P,P'-Dde | 0.0033 | 1.8 | 8.9 | 62 | 120 | **0.0018 J** | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| P,P'-Ddt | 0.0033 | 1.7 | 7.9 | 47 | 94 | **0.0008303 J** | NA | 0.002 U | NA | **0.0003195 J** | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Toxaphene | NC | NC | NC | NC | NC | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Trans-Chlordane | 0.094 | NC | 4.2 | 24 | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| **Herbicides** | | | | | | | | | | | | | | | | | |
| Silvex (2,4,5-Tp) | NC | 58 | NC | NC | 1000 | 0.091 U | NA | 0.0782 U | NA | 0.0721 U | NA | 0.0763 U | NA | 0.0721 U | NA | 0.0758 U | NA |

**Notes:**
- All are reported in parts per million (mg\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**
**- OR = Out of Range (waiting on updated results)**
**- Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

# Table 2

*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*

## Soil Sampling Analytical Results (SCOs)

| | | | | | *Location ID* | HLSP-SB-4 | | | | HLSP-SB-5 | | | | HLSP-SB-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-4A-(0-2) | HLSP-SB-4A-(1) | HLSP-SB-4B-(2-6) | HLSP-SB-4B-(3.5) | HLSP-SB-5A-(0-2) | HLSP-SB-5A-(1) | HLSP-SB-5B-(2-8.75 | HLSP-SB-5B-(8.5) | HLSP-SB-6A-(0-2) | HLSP-SB-6A-(1) | HLSP-SB-6B-(2-5) | HLSP-SB-6B-(5) |
| | | | | | *Laboratory ID* | J6206-13 | J6206-12 | J6206-15 | J6206-14 | J6206-01 | J6204-20 | J6206-03 | J6206-02 | J6206-09 | J6206-08 | J6206-11 | J6206-10 |
| | | | | | *Sample Date* | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 6.0 | 3.0 - 3.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 8.75 | 8.0 - 8.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 5.0 | 4.5 - 5.0 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | | | |
| **Polychlorinated Biphenyls (PCBs)** | | | | | | | | | | | | | | | | | |
| Pcb-1016 (Aroclor 1016) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| Pcb-1221 (Aroclor 1221) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| Pcb-1232 (Aroclor 1232) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| Pcb-1242 (Aroclor 1242) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| Pcb-1248 (Aroclor 1248) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| Pcb-1254 (Aroclor 1254) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| Pcb-1260 (Aroclor 1260) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| Pcb-1262 (Aroclor 1262) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| Pcb-1268 (Aroclor 1268) | 0.1 | 1 | 1 | 1 | NC | 0.0231 U | ND | 0.0198 U | ND | 0.0183 U | ND | 0.0193 U | ND | 0.0183 U | ND | 0.0192 U | ND |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.68 | 100 | 100 | 500 | 1000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1,2,2-Tetrachloroethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1-Dichloroethane | 0.27 | 19 | 26 | 240 | 480 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1-Dichloroethene | 0.33 | 100 | 100 | 500 | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2,3-Trichlorobenzene | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2,4-Trichlorobenzene | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2,4-Trimethylbenzene | NC | 47 | NC | NC | 380 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dichlorobenzene | NC | 100 | 100 | 500 | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dichloroethane | 0.02 | 2.3 | 3.1 | 30 | 60 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | NC | 47 | NC | NC | 380 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,3-Dichlorobenzene | 2.4 | 17 | 49 | 280 | 560 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,4-Dichlorobenzene | 1.8 | 9.8 | 13 | 130 | 250 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 2-Hexanone | NC | NC | NC | NC | NC | NA | 0.0444 U | NA | 0.0311 U | NA | 0.0258 U | NA | 0.024 U | NA | 0.0294 U | NA | 0.0296 U |
| Acetone | 0.05 | 100 | 100 | 500 | 1,000 | NA | 0.0444 U | NA | **0.0284 J** | NA | 0.0258 U | NA | **0.0278** | NA | **0.017 J** | NA | **0.0254 J** |
| Benzene | 0.06 | 2.9 | 4.8 | 44 | 89 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | **0.003 J** | NA | **0.0013 J** |
| Bromochloromethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Bromodichloromethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Bromoform | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Bromomethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Carbon Disulfide | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Carbon Tetrachloride | 0.76 | 1.4 | 2.4 | 22 | 44 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Chlorobenzene | 1.1 | 100 | 100 | 500 | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Chloroethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Chloroform | 0.37 | 10 | 49 | 350 | 700 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Chloromethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Cis-1,2-Dichloroethylene | 0.25 | 59 | 100 | 500 | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Cis-1,3-Dichloropropene | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Cyclohexane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Ethylbenzene | 1 | 30 | 41 | 390 | 780 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | **0.0013 J** | NA | 0.0059 U |
| Isopropylbenzene (Cumene) | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| M,P-Xylene | 0.26 | NC | 100 | 500 | NC | NA | 0.0178 U | NA | 0.0125 U | NA | 0.0103 U | NA | 0.0096 U | NA | **0.0015 J** | NA | 0.0118 U |
| Methyl Acetate | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Methyl Ethyl Ketone (2-Butanone) | 0.12 | 100 | 100 | 500 | 1,000 | NA | 0.0444 U | NA | 0.0311 U | NA | 0.0258 U | NA | 0.024 U | NA | 0.0294 U | NA | 0.0296 U |

**Notes:**
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- NA = Not Analyzed
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- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
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- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

# Table 2

*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | *Location ID* | HLSP-SB-4 | | | | HLSP-SB-5 | | | | HLSP-SB-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-4A-(0-2) | HLSP-SB-4A-(1) | HLSP-SB-4B-(2-6) | HLSP-SB-4B-(3.5) | HLSP-SB-5A-(0-2) | HLSP-SB-5A-(1) | HLSP-SB-5B-(2-8.75 | HLSP-SB-5B-(8.5) | HLSP-SB-6A-(0-2) | HLSP-SB-6A-(1) | HLSP-SB-6B-(2-5) | HLSP-SB-6B-(5) |
| | | | | | *Laboratory ID* | J6206-13 | J6206-12 | J6206-15 | J6206-14 | J6206-01 | J6204-20 | J6206-03 | J6206-02 | J6206-09 | J6206-08 | J6206-11 | J6206-10 |
| | | | | | *Sample Date* | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 6.0 | 3.0 - 3.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 8.75 | 8.0 - 8.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 5.0 | 4.5 - 5.0 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | | | |
| **VOCs (continued)** | | | | | | | | | | | | | | | | | |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | NC | NC | NC | NC | NC | NA | 0.0444 U | NA | 0.0311 U | NA | 0.0258 U | NA | 0.024 U | NA | 0.0294 U | NA | 0.0296 U |
| Methylcyclohexane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | **0.0018 J** | NA | 0.0059 U | NA | 0.0059 U |
| Methylene Chloride | 0.05 | NC | 100 | 500 | 1,000 | NA | **0.0107** | NA | **0.0107** | NA | **0.0062** | NA | **0.0089** | NA | **0.0099** | NA | **0.0224** |
| n-Butylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| N-Propylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| O-Xylene (1,2-Dimethylbenzene) | NC | NC | 100 | 500 | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Sec-Butylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Styrene | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| T-Butylbenzene | NC | NC | NC | NC | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Tert-Butyl Methyl Ether | 0.93 | 62 | 100 | 500 | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Tetrachloroethylene (Pce) | 1.3 | 5.5 | 19 | 150 | 300 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Toluene | 0.7 | 100 | 100 | 500 | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | **0.0011 J** | NA | **0.04** | NA | **0.0127** |
| Trans-1,2-Dichloroethene | 0.19 | 100 | 100 | 500 | 1,000 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Trans-1,3-Dichloropropene | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Trichloroethylene (Tce) | 0.47 | NC | 21 | 200 | 400 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Vinyl Chloride | 0.02 | NC | 0.9 | 13 | 27 | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Xylenes | 0.26 | 100 | 100 | 500 | 1000 | NA | 0.0267 U | NA | 0.0187 U | NA | 0.0155 U | NA | 0.0144 U | NA | **0.0015 J** | NA | 0.0177 U |
| **Semi-Volatile Organic Compounds** | | | | | | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 1,4-Dioxane (P-Dioxane) | 0.1 | 9.8 | 13 | 130 | 250 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,3,4,6-Tetrachlorophenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4,5-Trichlorophenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4,6-Trichlorophenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4-Dichlorophenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4-Dimethylphenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4-Dinitrophenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4-Dinitrotoluene | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,6-Dinitrotoluene | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Chloronaphthalene | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Chlorophenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Methylnaphthalene | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Methylphenol (O-Cresol) | NC | 100 | 100 | 500 | 1,000 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Nitroaniline | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Nitrophenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 3&4-Methylphenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 3,3'-Dichlorobenzidine | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 3-Nitroaniline | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4,6-Dinitro-2-Methylphenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Bromophenyl Phenyl Ether | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Chloro-3-Methylphenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Chloroaniline | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Chlorophenyl Phenyl Ether | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Nitroaniline | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Nitrophenol | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Acenaphthene | 20 | 100 | 100 | 500 | 1,000 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Acenaphthylene | 100 | 100 | 100 | 500 | 1,000 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Acetophenone | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Anthracene | 100 | 100 | 100 | 500 | 1,000 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Atrazine | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |

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- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**
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**- Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

**Table 2**
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | *Location ID* | HLSP-SB-4 | | | | HLSP-SB-5 | | | | HLSP-SB-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-4A-(0-2) | HLSP-SB-4A-(1) | HLSP-SB-4B-(2-6) | HLSP-SB-4B-(3.5) | HLSP-SB-5A-(0-2) | HLSP-SB-5A-(1) | HLSP-SB-5B-(2-8.75 | HLSP-SB-5B-(8.5) | HLSP-SB-6A-(0-2) | HLSP-SB-6A-(1) | HLSP-SB-6B-(2-5) | HLSP-SB-6B-(5) |
| | | | | | *Laboratory ID* | J6206-13 | J6206-12 | J6206-15 | J6206-14 | J6206-01 | J6204-20 | J6206-03 | J6206-02 | J6206-09 | J6206-08 | J6206-11 | J6206-10 |
| | | | | | *Sample Date* | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 6.0 | 3.0 - 3.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 8.75 | 8.0 - 8.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 5.0 | 4.5 - 5.0 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | | | |
| **SVOCs (continued)** | | | | | | | | | | | | | | | | | |
| Benzaldehyde | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(A)Anthracene | 1 | 1 | 1 | 5.6 | 11 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(A)Pyrene | 1 | 1 | 1 | 1 | 1.1 | **0.0924 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(B)Fluoranthene | 1 | 1 | 1 | 5.6 | 11 | **0.15 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(G,H,I)Perylene | 100 | 100 | 100 | 500 | 1,000 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(K)Fluoranthene | 0.8 | 1 | 3.9 | 56 | 110 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzyl Butyl Phthalate | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Biphenyl (Diphenyl) | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Bis(2-Chloroethoxy) Methane | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether) | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Bis(2-Chloroisopropyl) Ether | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Bis(2-Ethylhexyl) Phthalate | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Caprolactam | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Carbazole | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Chrysene | 1 | 1 | 3.9 | 56 | 110 | **0.097 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Dibenz(A,H)Anthracene | 0.33 | 0.33 | 0.33 | 0.56 | 1.1 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Dibenzofuran | 7 | 14 | 59 | 350 | 1,000 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Diethyl Phthalate | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Dimethyl Phthalate | NC | NC | NC | NC | NC | **0.38 J** | NA | **0.18 J** | NA | **0.27 J** | NA | **0.31 J** | NA | **0.29 J** | NA | **0.45** | NA |
| Di-N-Butyl Phthalate | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Di-N-Octylphthalate | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Fluoranthene | 100 | 100 | 100 | 500 | 1,000 | **0.16 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Fluorene | 30 | 100 | 100 | 500 | 1,000 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Hexachlorobenzene | 0.33 | 0.33 | 1.2 | 6 | 12 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Hexachlorobutadiene | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Hexachlorocyclopentadiene | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Hexachloroethane | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Indeno(1,2,3-C,D)Pyrene | 0.5 | 0.5 | 0.5 | 5.6 | 11 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Isophorone | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Naphthalene | 12 | 100 | 100 | 500 | 1,000 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Nitrobenzene | NC | NC | 15 | 69 | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| N-Nitrosodi-N-Propylamine | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| N-Nitrosodiphenylamine | NC | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Pentachlorophenol | 0.8 | 2.4 | 6.7 | 6.7 | 55 | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Phenanthrene | 100 | NC | 100 | 500 | 500 | **0.0973 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Phenol | 0.33 | 100 | 100 | 500 | 1,000 | **0.32 J** | NA | **0.23 J** | NA | **0.26 J** | NA | **0.29 J** | NA | **0.21 J** | NA | **0.3 J** | NA |
| Pyrene | 100 | 100 | 100 | 500 | 1,000 | **0.15 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| **General Chemistry** | | | | | | | | | | | | | | | | | |
| Total Organic Carbon | NC | NC | NC | NC | NC | **32,796** | NA | **17,905** | NA | **16,583** | NA | **9523** | NA | **11,685** | NA | **2,250** | NA |

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# Table 2

*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Location ID* | HLSP-SB-7 | | | | HLSP-SB-8 | | | | | |
| | | | | | *Sample ID* | HLSP-SB-7A-(0-2) | HLSP-SB-7A-(1) | HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2-6) | HLSP-SB-8A-(0-2) | HLSP-DUP01-112918 | HLSP-SB-8A-(1) | HLSP-DUP01-112918 | HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(9.5) |
| | | | | | *Laboratory ID* | J6204-11 | J6204-10 | J6204-12 | J6204-13 | J6204-15 | J6204-19 | J6204-14 | J6204-18 | J6204-17 | J6204-16 |
| | | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 | 2.0 - 9.75 | 9.0 - 9.5 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | | | | | | |
| Aluminum | NC | NC | NC | NC | NC | **2,470** | NA | NA | **4,240** | **1,630** | **1,470** | NA | NA | **1,360** | NA |
| Antimony | NC | NC | NC | NC | NC | 2.29 U | NA | NA | 2.26 U | 2.32 U | 2.32 U | NA | NA | 2.21 U | NA |
| Arsenic | 13 | 16 | 16 | 16 | 16 | **1.86** | NA | NA | **1.21** | **3.27** | **2.78** | NA | NA | **0.513 J** | NA |
| Barium | 350 | 350 | 400 | 400 | 10,000 | **12.8** | NA | NA | **35** | **4.9** | **4.62 J** | NA | NA | **4.8** | NA |
| Beryllium | 7.2 | 14 | 72 | 590 | 2,700 | **0.093 J** | NA | NA | **0.209 J** | 0.278 U | 0.279 U | NA | NA | **0.076 J** | NA |
| Cadmium | 2.5 | 2.5 | 4.3 | 9.3 | 60 | 0.275 U | NA | NA | 0.272 U | 0.278 U | 0.279 U | NA | NA | 0.265 U | NA |
| Calcium | NC | NC | NC | NC | NC | **113** | NA | NA | **169** | **42.4 J** | **35.2 J** | NA | NA | **15.2 J** | NA |
| Chromium, Hexavalent | 1 | 22 | 110 | 400 | 800 | 0.437 U | NA | NA | 0.43 U | 0.438 U | 0.444 U | NA | NA | 0.419 U | NA |
| Chromium, Trivalent | 30 | 36 | 180 | 1500 | 6,800 | **4.15** | NA | NA | **5.18** | **4.1** | **4.23** | NA | NA | **4.44** | NA |
| Chromium, Total | NC | NC | NC | NC | NC | **4.15** | NA | NA | **5.18** | **4.1** | **4.23** | NA | NA | **4.44** | NA |
| Cobalt | NC | NC | NC | NC | NC | **1.1 J** | NA | NA | **2.8** | **0.859 J** | **0.781 J** | NA | NA | **1.11 J** | NA |
| Copper | 50 | 270 | 270 | 270 | 10,000 | **5.54** | NA | NA | **4.51** | **4.75** | **4.27** | NA | NA | **1.57** | NA |
| Cyanide | NC | NC | NC | NC | 10,000 | **0.038 J** | NA | NA | 0.26 U | **0.044 J** | **0.066 J** | NA | NA | **0.049 J** | NA |
| Iron | NC | NC | NC | NC | NC | **4,150** | NA | NA | **6,480** | **6,430** | **5,940** | NA | NA | **3,590** | NA |
| Lead | 63 | 400 | 400 | 1,000 | 3,900 | **46** | NA | NA | **21** | **27.9** | **24.9** | NA | NA | **4.57** | NA |
| Magnesium | NC | NC | NC | NC | NC | **371** | NA | NA | **610** | **217** | **197** | NA | NA | **238** | NA |
| Manganese | 1,600 | 2,000 | 2,000 | 10,000 | 10,000 | **75.4** | NA | NA | **146** | **32.3** | **27.8** | NA | NA | **112** | NA |
| Mercury | 0.18 | 0.81 | 0.81 | 2.8 | 5.7 | **0.28** | NA | NA | **0.187** | **0.068** | **0.071** | NA | NA | **0.081** | NA |
| Nickel | 30 | 140 | 310 | 310 | 10,000 | **2.09** | NA | NA | **4.09** | **1.39 J** | **1.56 J** | NA | NA | **2.04** | NA |
| Potassium | NC | NC | NC | NC | NC | **159** | NA | NA | **148** | **120** | **117** | NA | NA | **101** | NA |
| Selenium | 3.9 | 36 | 180 | 1,500 | 6,800 | 0.917 U | NA | NA | 0.906 U | 0.927 U | **1.16** | NA | NA | 0.884 U | NA |
| Silver | 2 | 36 | 180 | 1,500 | 6,800 | 0.458 U | NA | NA | 0.453 U | 0.463 U | 0.465 U | NA | NA | 0.442 U | NA |
| Sodium | NC | NC | NC | NC | NC | 91.7 U | NA | NA | **8.92 J** | 92.7 U | **8.69 J** | NA | NA | 88.4 U | NA |
| Thallium | NC | NC | NC | NC | NC | 1.83 U | NA | NA | 1.81 U | 1.85 U | 1.86 U | NA | NA | 1.77 U | NA |
| Vanadium | NC | NC | NC | NC | NC | **5.75** | NA | NA | **7.23** | **5.93** | **5.67** | NA | NA | **2.52** | NA |
| Zinc | 109 | 2200 | 10,000 | 10,000 | 10,000 | **11.2** | NA | NA | **18.2** | **5.37** | **4.9** | NA | NA | **4.65** | NA |
| **Pesticides** | | | | | | | | | | | | | | | |
| Aldrin | 0.005 | 0.019 | 0.097 | 0.68 | 1.4 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Alpha Bhc | 0.02 | 0.097 | 0.48 | 3.4 | 6.8 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Alpha Endosulfan | NC | 4.8 | 24 | 200 | 920 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Beta Bhc | 0.036 | 0.072 | 0.36 | 3 | 14 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Beta Endosulfan | 2.4 | 4.8 | 24 | 200 | 920 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Cis-Chlordane | 0.094 | 0.91 | 4.2 | 24 | 47 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Delta Bhc | 0.04 | 100 | 100 | 500 | 1000 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Dieldrin | 0.005 | 0.039 | 0.2 | 1.4 | 2.8 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Endosulfan Sulfate | 2.4 | 4.8 | 24 | 200 | 920 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Endrin | 0.014 | 2.2 | 11 | 89 | 410 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Endrin Aldehyde | NC | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Endrin Ketone | NC | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Gamma Bhc (Lindane) | 0.1 | 0.28 | 1.3 | 9.2 | 23 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Heptachlor | 0.042 | 0.42 | 2.1 | 15 | 29 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Heptachlor Epoxide | NC | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Methoxychlor | NC | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| P,P'-Ddd | 0.0033 | 2.6 | 13 | 92 | 180 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| P,P'-Dde | 0.0033 | 1.8 | 8.9 | 62 | 120 | **0.0004616 U** | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| P,P'-Ddt | 0.0033 | 1.7 | 7.9 | 47 | 94 | 0.0019 U | NA | NA | 0.0018 U | **0.0003073 J** | 0.0019 U | NA | NA | 0.0018 U | NA |
| Toxaphene | NC | NC | NC | NC | NC | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Trans-Chlordane | 0.094 | NC | 4.2 | 24 | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| **Herbicides** | | | | | | | | | | | | | | | |
| Silvex (2,4,5-Tp) | NC | 58 | NC | NC | 1000 | 0.0733 U | NA | NA | 0.0728 U | 0.0744 U | 0.0741 U | NA | NA | 0.0704 U | NA |

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**- Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

# Table 2

*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | *Location ID* | HLSP-SB-7 | | | | HLSP-SB-8 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-7A-(0-2) | HLSP-SB-7A-(1) | HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2-6) | HLSP-SB-8A-(0-2) | HLSP-DUP01-112918 | HLSP-SB-8A-(1) | HLSP-DUP01-112918 | HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(9.5) |
| | | | | | *Laboratory ID* | J6204-11 | J6204-10 | J6204-12 | J6204-13 | J6204-15 | J6204-19 | J6204-14 | J6204-18 | J6204-17 | J6204-16 |
| | | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 | 2.0 - 9.75 | 9.0 - 9.5 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | |
| **Polychlorinated Biphenyls (PCBs)** | | | | | | | | | | | | | | | |
| Pcb-1016 (Aroclor 1016) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| Pcb-1221 (Aroclor 1221) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| Pcb-1232 (Aroclor 1232) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| Pcb-1242 (Aroclor 1242) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| Pcb-1248 (Aroclor 1248) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| Pcb-1254 (Aroclor 1254) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| Pcb-1260 (Aroclor 1260) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| Pcb-1262 (Aroclor 1262) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| Pcb-1268 (Aroclor 1268) | 0.1 | 1 | 1 | 1 | NC | 0.0187 U | ND | ND | 0.0184 U | 0.0189 U | 0.0189 U | ND | ND | 0.0179 U | ND |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.68 | 100 | 100 | 500 | 1000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1,2,2-Tetrachloroethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1-Dichloroethane | 0.27 | 19 | 26 | 240 | 480 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1-Dichloroethene | 0.33 | 100 | 100 | 500 | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2,3-Trichlorobenzene | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2,4-Trichlorobenzene | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2,4-Trimethylbenzene | NC | 47 | NC | NC | 380 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dichlorobenzene | NC | 100 | 100 | 500 | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dichloroethane | 0.02 | 2.3 | 3.1 | 30 | 60 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | NC | 47 | NC | NC | 380 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,3-Dichlorobenzene | 2.4 | 17 | 49 | 280 | 560 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,4-Dichlorobenzene | 1.8 | 9.8 | 13 | 130 | 250 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 2-Hexanone | NC | NC | NC | NC | NC | NA | 0.0235 U | 0.0217 U | NA | NA | NA | 0.0304 U | 0.0338 U | NA | 0.0182 U |
| Acetone | 0.05 | 100 | 100 | 500 | 1,000 | NA | 0.0235 U | 0.0217 U | NA | NA | NA | **0.0212 J** | **0.01 J** | NA | **0.0139 J** |
| Benzene | 0.06 | 2.9 | 4.8 | 44 | 89 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Bromochloromethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Bromodichloromethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Bromoform | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Bromomethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Carbon Disulfide | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Carbon Tetrachloride | 0.76 | 1.4 | 2.4 | 22 | 44 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Chlorobenzene | 1.1 | 100 | 100 | 500 | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Chloroethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Chloroform | 0.37 | 10 | 49 | 350 | 700 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Chloromethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Cis-1,2-Dichloroethylene | 0.25 | 59 | 100 | 500 | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Cis-1,3-Dichloropropene | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Cyclohexane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Ethylbenzene | 1 | 30 | 41 | 390 | 780 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Isopropylbenzene (Cumene) | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| M,P-Xylene | 0.26 | NC | 100 | 500 | NC | NA | 0.0094 U | 0.0087 U | NA | NA | NA | 0.0122 U | 0.0135 U | NA | 0.0073 U |
| Methyl Acetate | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Methyl Ethyl Ketone (2-Butanone) | 0.12 | 100 | 100 | 500 | 1,000 | NA | 0.0235 U | 0.0217 U | NA | NA | NA | 0.0304 U | 0.0338 U | NA | 0.0182 U |

**Notes:**
- All are reported in parts per million (mg\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**
**- OR = Out of Range (waiting on updated results)**
**- Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

# Table 2

*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*

## Soil Sampling Analytical Results (SCOs)

| | | | | | *Location ID* | HLSP-SB-7 | | | | HLSP-SB-8 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-7A-(0-2) | HLSP-SB-7A-(1) | HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2-6) | HLSP-SB-8A-(0-2) | HLSP-DUP01-112918 | HLSP-SB-8A-(1) | HLSP-DUP01-112918 | HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(9.5) |
| | | | | | *Laboratory ID* | J6204-11 | J6204-10 | J6204-12 | J6204-13 | J6204-15 | J6204-19 | J6204-14 | J6204-18 | J6204-17 | J6204-16 |
| | | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 | 2.0 - 9.75 | 9.0 - 9.5 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | |
| **VOCs (continued)** | | | | | | | | | | | | | | | |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | NC | NC | NC | NC | NC | NA | 0.0235 U | 0.0217 U | NA | NA | NA | 0.0304 U | 0.0338 U | NA | 0.0182 U |
| Methylcyclohexane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Methylene Chloride | 0.05 | NC | 100 | 500 | 1,000 | NA | **0.0026 J** | **0.003 J** | NA | NA | NA | **0.0055 J** | **0.0083** | NA | **0.0027 J** |
| n-Butylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| N-Propylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| O-Xylene (1,2-Dimethylbenzene) | NC | NC | 100 | 500 | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Sec-Butylbenzene | NC | 100 | NC | NC | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Styrene | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| T-Butylbenzene | NC | NC | NC | NC | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Tert-Butyl Methyl Ether | 0.93 | 62 | 100 | 500 | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Tetrachloroethylene (Pce) | 1.3 | 5.5 | 19 | 150 | 300 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Toluene | 0.7 | 100 | 100 | 500 | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Trans-1,2-Dichloroethene | 0.19 | 100 | 100 | 500 | 1,000 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Trans-1,3-Dichloropropene | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Trichloroethylene (Tce) | 0.47 | NC | 21 | 200 | 400 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Vinyl Chloride | 0.02 | NC | 0.9 | 13 | 27 | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Xylenes | 0.26 | 100 | 100 | 500 | 1000 | NA | 0.0141 U | 0.013 U | NA | NA | NA | 0.0183 U | 0.0203 U | NA | 0.0109 U |
| **Semi-Volatile Organic Compounds** | | | | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 1,4-Dioxane (P-Dioxane) | 0.1 | 9.8 | 13 | 130 | 250 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,3,4,6-Tetrachlorophenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4,5-Trichlorophenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4,6-Trichlorophenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4-Dichlorophenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4-Dimethylphenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4-Dinitrophenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4-Dinitrotoluene | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,6-Dinitrotoluene | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Chloronaphthalene | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Chlorophenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Methylnaphthalene | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Methylphenol (O-Cresol) | NC | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Nitroaniline | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Nitrophenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 3&4-Methylphenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 3,3'-Dichlorobenzidine | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 3-Nitroaniline | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4,6-Dinitro-2-Methylphenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Bromophenyl Phenyl Ether | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Chloro-3-Methylphenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Chloroaniline | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Chlorophenyl Phenyl Ether | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Nitroaniline | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Nitrophenol | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Acenaphthene | 20 | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Acenaphthylene | 100 | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Acetophenone | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Anthracene | 100 | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Atrazine | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |

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*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (SCOs)**

| | | | | | *Location ID* | HLSP-SB-7 | | | | HLSP-SB-8 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | *Sample ID* | HLSP-SB-7A-(0-2) | HLSP-SB-7A-(1) | HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2-6) | HLSP-SB-8A-(0-2) | HLSP-DUP01-112918 | HLSP-SB-8A-(1) | HLSP-DUP01-112918 | HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(9.5) |
| | | | | | *Laboratory ID* | J6204-11 | J6204-10 | J6204-12 | J6204-13 | J6204-15 | J6204-19 | J6204-14 | J6204-18 | J6204-17 | J6204-16 |
| | | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 |
| | | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 | 2.0 - 9.75 | 9.0 - 9.5 |
| *Analyte* | *Soil Cleanup Objectives* | | | | | | | | | | | | | | |
| | *Unrestricted Use* | *Residential Use* | *Restricted-Residenital Use* | *Commercial Use* | *Industrial Use* | | | | | | | | | | |
| **SVOCs (continued)** | | | | | | | | | | | | | | | |
| Benzaldehyde | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(A)Anthracene | 1 | 1 | 1 | 5.6 | 11 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(A)Pyrene | 1 | 1 | 1 | 1 | 1.1 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(B)Fluoranthene | 1 | 1 | 1 | 5.6 | 11 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(G,H,I)Perylene | 100 | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(K)Fluoranthene | 0.8 | 1 | 3.9 | 56 | 110 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzyl Butyl Phthalate | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Biphenyl (Diphenyl) | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Bis(2-Chloroethoxy) Methane | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether) | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Bis(2-Chloroisopropyl) Ether | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Bis(2-Ethylhexyl) Phthalate | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Caprolactam | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Carbazole | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Chrysene | 1 | 1 | 3.9 | 56 | 110 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Dibenz(A,H)Anthracene | 0.33 | 0.33 | 0.33 | 0.56 | 1.1 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Dibenzofuran | 7 | 14 | 59 | 350 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Diethyl Phthalate | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Dimethyl Phthalate | NC | NC | NC | NC | NC | **0.29 J** | NA | NA | **0.2 J** | **0.18 J** | **0.3 J** | NA | NA | **0.34 J** | NA |
| Di-N-Butyl Phthalate | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Di-N-Octylphthalate | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Fluoranthene | 100 | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Fluorene | 30 | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Hexachlorobenzene | 0.33 | 0.33 | 1.2 | 6 | 12 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Hexachlorobutadiene | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Hexachlorocyclopentadiene | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Hexachloroethane | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Indeno(1,2,3-C,D)Pyrene | 0.5 | 0.5 | 0.5 | 5.6 | 11 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Isophorone | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Naphthalene | 12 | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Nitrobenzene | NC | NC | 15 | 69 | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| N-Nitrosodi-N-Propylamine | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| N-Nitrosodiphenylamine | NC | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Pentachlorophenol | 0.8 | 2.4 | 6.7 | 6.7 | 55 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Phenanthrene | 100 | NC | 100 | 500 | 500 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Phenol | 0.33 | 100 | 100 | 500 | 1,000 | **0.29 J** | NA | NA | **0.26 J** | **0.25 J** | **0.3 J** | NA | NA | **0.29 J** | NA |
| Pyrene | 100 | 100 | 100 | 500 | 1,000 | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| **General Chemistry** | | | | | | | | | | | | | | | |
| Total Organic Carbon | NC | NC | NC | NC | NC | **11,172** | NA | NA | **5,910** | **14,836** | **15,857** | NA | NA | **6,130** | NA |

**Notes:**
- All are reported in parts per million (mg\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**
**- OR = Out of Range (waiting on updated results)**
**- Shaded values exceeded Unrestricted, Residential, and/or Restricted Residential Use SCOs**

# Table 3
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
## Soil Sampling Analytical Results (TOGs)

| | | | | *Location ID* | HLSP-SB-1 | | | | HLSP-SB-2 | | | | HLSP-SB-3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-1A-(1) | HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2-6) | HLSP-SB-2A-(0-2) | HLSP-SB-2A-(1) | HLSP-SB-2B-(2-9.75 | HLSP-SB-2B-(4.5) | HLSP-SB-3A-(0-2) | HLSP-SB-3A-(1) | HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2-7.5) |
| | | | | *Laboratory ID* | J6204-02 | J6204-01 | J6204-03 | J6204-04 | J6204-06 | J6204-05 | J6204-08 | J6204-07 | J6206-17 | J6206-16 | J6206-18 | J6206-19 |
| | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 9.75 | 4.0 - 4.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 7.5 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | | | | | | | |
| Aluminum | NC | NC | NC | NC | **3,820** | NA | NA | **2,000** | **4,150** | NA | **1,810** | NA | **851** | NA | NA | **1,620** |
| Antimony | NC | NC | NC | NC | 2.24 U | NA | NA | 2.25 U | 2.31 U | NA | 2.16 U | NA | 2.19 U | NA | NA | 2.27 U |
| Arsenic | 13 | <14 (8.2) | 14 - 53 (8.2) | >53 | **2.99** | NA | NA | **0.74 J** | **4.22** | NA | **0.217 J** | NA | **0.307 J** | NA | NA | **0.304 J** |
| Barium | 433 | NC | NC | NC | **16.9** | NA | NA | **8.63** | **17.1** | NA | **8.53** | NA | **2.21 J** | NA | NA | **3.81 J** |
| Beryllium | 10 | NC | NC | NC | **0.221 J** | NA | NA | **0.142 J** | **0.26 J** | NA | **0.138 J** | NA | 0.262 U | NA | NA | **0.072 J** |
| Cadmium | 4 | <1.2 | 1.2 - 9.5 | >9.5 | 0.269 U | NA | NA | 0.27 U | 0.277 U | NA | 0.259 U | NA | 0.262 U | NA | NA | 0.272 U |
| Calcium | NC | NC | NC | NC | **216** | NA | NA | **71.2 J** | **79.1 J** | NA | **144** | NA | **15.1 J** | NA | NA | **28.4 J** |
| Chromium, Hexavalent | 1 | NC | NC | NC | 0.423 U | NA | NA | 0.416 U | 0.435 U | NA | 0.421 U | NA | 0.427 U | NA | NA | 0.441 U |
| Chromium, Trivalent | 41 | NC | NC | NC | **5.13** | NA | NA | **4.94** | **5.96** | NA | **3.36** | NA | **2.33** | NA | NA | **4.44** |
| Chromium, Total | NC | NC | NC | NC | **5.13** | NA | NA | **4.94** | **5.96** | NA | **3.36** | NA | **2.33** | NA | NA | **4.44** |
| Cobalt | NC | NC | NC | NC | **2.18** | NA | NA | **1.9** | **2.17** | NA | **2.02** | NA | 1.31 U | NA | NA | **0.492 J** |
| Copper | 50 | <33 | 33 - 207 (270) | >207 (270) | **5.51** | NA | NA | **3.43** | **6.33** | NA | **3.71** | NA | **0.983** | NA | NA | **2.06** |
| Cyanide | NC | NC | NC | NC | **0.048 J** | NA | NA | **0.039 J** | **0.66** | NA | **0.043 J** | NA | 0.25 U | NA | NA | 0.26 U |
| Iron | NC | NC | NC | NC | **6,740** | NA | NA | **4,730** | **6,880** | NA | **5,800** | NA | **641** | NA | NA | **2,260** |
| Lead | 63 | <33 (47) | 33 (47) - 166 (218) | >166 (218) | **23.5** | NA | NA | **5.86** | **17.1** | NA | **0.856** | NA | **4.31** | NA | NA | **1.77** |
| Magnesium | NC | NC | NC | NC | **534** | NA | NA | **456** | **510** | NA | **533** | NA | **71.9 J** | NA | NA | **258** |
| Manganese | 1600 | NC | NC | NC | **140** | NA | NA | **92.6** | **147** | NA | **99.2** | NA | **3.16** | NA | NA | **15.7** |
| Mercury | 0.18 | <0.17 | 0.17 - 1.6 (1.0) | >1.6 (1.0) | **0.066** | NA | NA | **0.021** | **0.104** | NA | **0.008 J** | NA | **0.025** | NA | NA | **0.01 J** |
| Nickel | 30 | NC | NC | NC | **4.03** | NA | NA | **3.32** | **4.72** | NA | **3.67** | NA | **0.883 J** | NA | NA | **2.25** |
| Potassium | NC | NC | NC | NC | **166** | NA | NA | **214** | **130** | NA | **331** | NA | **47.1 J** | NA | NA | **137** |
| Selenium | 3.9 | NC | NC | NC | 0.898 U | NA | NA | 0.9 U | 0.924 U | NA | 0.862 U | NA | 0.875 U | NA | NA | 0.907 U |
| Silver | 2 | NC | NC | NC | 0.449 U | NA | NA | 0.45 U | 0.462 U | NA | 0.431 U | NA | 0.437 U | NA | NA | 0.454 U |
| Sodium | NC | NC | NC | NC | **5.43 J** | NA | NA | 90 U | **3.46 J** | NA | **2.74 J** | NA | 87.5 U | NA | NA | 90.7 U |
| Thallium | NC | NC | NC | NC | 1.8 U | NA | NA | 1.8 U | 1.85 U | NA | 1.72 U | NA | 1.75 U | NA | NA | 1.81 U |
| Vanadium | NC | NC | NC | NC | **7.84** | NA | NA | **4.74** | **7.43** | NA | **4.42** | NA | **1.17 J** | NA | NA | **3.42** |
| Zinc | 109 | NC | NC | NC | **17.1** | NA | NA | **8.02** | **15.3** | NA | **6.96** | NA | **1.67 J** | NA | NA | **6.86** |
| **Pesticides** | | | | | | | | | | | | | | | | |
| Aldrin | 0.14 | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Alpha Bhc | 0.04 | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Alpha Endosulfan | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Beta Bhc | 0.6 | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Beta Endosulfan | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Cis-Chlordane | 1.3 | <0.003 | 0.003 - 0.036 | >0.014 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Delta Bhc | 0.04 | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Dieldrin | 0.006 | <0.11 | 0.11 - 0.48 | >0.48 | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Endosulfan Sulfate | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Endrin | 0.014 | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Endrin Aldehyde | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Endrin Ketone | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Gamma Bhc (Lindane) | 6 | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Heptachlor | 0.14 | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Heptachlor Epoxide | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Methoxychlor | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| P,P'-Ddd | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| P,P'-Dde | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | **0.0009526 J** | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| P,P'-Ddt | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| Toxaphene | NC | NC | NC | NC | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Trans-Chlordane | NC | NC | NC | NC | 0.0018 U | NA | NA | 0.0018 U | 0.0019 U | NA | 0.0018 U | NA | 0.0018 U | NA | NA | 0.0019 U |
| **Herbicides** | | | | | | | | | | | | | | | | |
| Silvex (2,4,5-Tp) | NC | NC | NC | NC | 0.0721 U | NA | NA | 0.0703 U | 0.0738 U | NA | 0.0705 U | NA | 0.0713 U | NA | NA | 0.0741 U |

**Notes:**
- All are reported in parts per million (mg\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- TOGS - Technical & Operational Guidance Series, November 2004
- * Criteria is the sum of Pesticides noted
- ** Criteria is the sume of PCBs noted
- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Ecological SCOs**

# Table 3

*Hempstead Lake State Park*
*West Hempstead, NY*
*Governor's Office of Storm Recovery*

## Soil Sampling Analytical Results (TOGs)

| | | | | *Location ID* | HLSP-SB-1 | | | | HLSP-SB-2 | | | | HLSP-SB-3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-1A-(1) | HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2-6) | HLSP-SB-2A-(0-2) | HLSP-SB-2A-(1) | HLSP-SB-2B-(2-9.75 | HLSP-SB-2B-(4.5) | HLSP-SB-3A-(0-2) | HLSP-SB-3A-(1) | HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2-7.5) |
| | | | | *Laboratory ID* | J6204-02 | J6204-01 | J6204-03 | J6204-04 | J6204-06 | J6204-05 | J6204-08 | J6204-07 | J6206-17 | J6206-16 | J6206-18 | J6206-19 |
| | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 9.75 | 4.0 - 4.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 7.5 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | | | |
| **Polychlorinated Biphenyls (PCBs)** | | | | | | | | | | | | | | | | |
| Pcb-1016 (Aroclor 1016) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Pcb-1221 (Aroclor 1221) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Pcb-1232 (Aroclor 1232) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Pcb-1242 (Aroclor 1242) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Pcb-1248 (Aroclor 1248) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Pcb-1254 (Aroclor 1254) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Pcb-1260 (Aroclor 1260) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Pcb-1262 (Aroclor 1262) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| Pcb-1268 (Aroclor 1268) | NC | <0.1** | 0.1 - 1** | >1** | 0.0183 U | NA | NA | 0.0179 U | 0.0187 U | NA | 0.0179 U | NA | 0.0181 U | NA | NA | 0.0188 U |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1,2,2-Tetrachloroethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1-Dichloroethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,1-Dichloroethene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2,3-Trichlorobenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2,4-Trichlorobenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2,4-Trimethylbenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dichlorobenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dichloroethane | 10 | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,2-Dichloropropane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,3,5-Trimethylbenzene (Mesitylene) | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,3-Dichlorobenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 1,4-Dichlorobenzene | 20 | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| 2-Hexanone | NC | NC | NC | NC | NA | 0.0211 U | 0.027 U | NA | NA | 0.0249 U | NA | 0.0265 U | NA | 0.0414 U | 0.0302 U | NA |
| Acetone | 2.2 | NC | NC | NC | NA | 0.0211 U | **0.0356** | NA | NA | 0.0249 U | NA | **0.0172 J** | NA | **0.0124 J** | **0.0514** | NA |
| Benzene | 70 | <0.59<br><0.96*** | 0.59 - 2.16<br>0.96 - 5.9*** | >2.16<br>>5.9*** | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Bromochloromethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Bromodichloromethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Bromoform | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Bromomethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Carbon Disulfide | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Carbon Tetrachloride | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Chlorobenzene | 40 | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Chloroethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Chloroform | 12 | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Chloromethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Cis-1,2-Dichloroethylene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Cis-1,3-Dichloropropene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Cyclohexane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Dibromochloromethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Dichlorodifluoromethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Ethylbenzene | NC | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Isopropylbenzene (Cumene) | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| M,P-Xylene | NC | NC | NC | NC | NA | 0.0084 U | 0.0108 U | NA | NA | 0.0099 U | NA | 0.0106 U | NA | 0.0166 U | 0.0121 U | NA |
| Methyl Acetate | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Methyl Ethyl Ketone (2-Butanone) | 100 | NC | NC | NC | NA | 0.0211 U | 0.027 U | NA | NA | 0.0249 U | NA | 0.0265 U | NA | 0.0414 U | 0.0302 U | NA |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone | NC | NC | NC | NC | NA | 0.0211 U | 0.027 U | NA | NA | 0.0249 U | NA | 0.0265 U | NA | 0.0414 U | 0.0302 U | NA |
| Methylcyclohexane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |

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- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
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- * Criteria is the sum of Pesticides noted
- ** Criteria is the sume of PCBs noted
- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Ecological SCOs**

# Table 3
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (TOGs)**

| | | | | *Location ID* | HLSP-SB-1 | | | | HLSP-SB-2 | | | | HLSP-SB-3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-1A-(1) | HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2-6) | HLSP-SB-2A-(0-2) | HLSP-SB-2A-(1) | HLSP-SB-2B-(2-9.75 | HLSP-SB-2B-(4.5) | HLSP-SB-3A-(0-2) | HLSP-SB-3A-(1) | HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2-7.5) |
| | | | | *Laboratory ID* | J6204-02 | J6204-01 | J6204-03 | J6204-04 | J6204-06 | J6204-05 | J6204-08 | J6204-07 | J6206-17 | J6206-16 | J6206-18 | J6206-19 |
| | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 9.75 | 4.0 - 4.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 7.5 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | | | |
| **VOCs (continued)** | | | | | | | | | | | | | | | | |
| Methylene Chloride | NC | NC | NC | NC | NA | **0.0021 J** | **0.0046 J** | NA | NA | **0.0045 J** | NA | **0.0074** | NA | **0.0195** | **0.0133** | NA |
| n-Butylbenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| N-Propylbenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| O-Xylene (1,2-Dimethylbenzene) | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Sec-Butylbenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Styrene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| T-Butylbenzene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Tert-Butyl Methyl Ether | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Tetrachloroethylene (Pce) | 2 | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Toluene | 36 | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | **0.0021 J** | NA | **0.012** | 0.006 U | NA |
| Trans-1,2-Dichloroethene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Trans-1,3-Dichloropropene | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Trichloroethylene (Tce) | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Trichlorofluoromethane | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Vinyl Chloride | NC | NC | NC | NC | NA | 0.0042 U | 0.0054 U | NA | NA | 0.005 U | NA | 0.0053 U | NA | 0.0083 U | 0.006 U | NA |
| Xylenes | 0.26 | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0126 U | 0.0162 U | NA | NA | 0.0149 U | NA | 0.0159 U | NA | 0.0249 U | 0.0181 U | NA |
| **Semi-Volatile Organic Compounds** | | | | | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 1,4-Dioxane (P-Dioxane) | 0.1 | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,3,4,6-Tetrachlorophenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4,5-Trichlorophenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4,6-Trichlorophenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4-Dichlorophenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4-Dimethylphenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4-Dinitrophenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,4-Dinitrotoluene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2,6-Dinitrotoluene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Chloronaphthalene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Chlorophenol | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Methylnaphthalene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Methylphenol (O-Cresol) | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Nitroaniline | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 2-Nitrophenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 3&4-Methylphenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 3,3'-Dichlorobenzidine | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 3-Nitroaniline | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4,6-Dinitro-2-Methylphenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Bromophenyl Phenyl Ether | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Chloro-3-Methylphenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Chloroaniline | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Chlorophenyl Phenyl Ether | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Nitroaniline | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| 4-Nitrophenol | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Acenaphthene | 20 | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Acenaphthylene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Acetophenone | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Anthracene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Atrazine | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzaldehyde | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(A)Anthracene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(A)Pyrene | 2.6 | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(B)Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzo(G,H,I)Perylene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |

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- **Shaded values exceeded Ecological SCOs**

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*Hempstead Lake State Park*
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**Soil Sampling Analytical Results (TOGs)**

| | | | | *Location ID* | HLSP-SB-1 | | | | HLSP-SB-2 | | | | HLSP-SB-3 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-1A-(1) | HLSP-SB-1B-(2.5) | HLSP-SB-1B-(2-6) | HLSP-SB-2A-(0-2) | HLSP-SB-2A-(1) | HLSP-SB-2B-(2-9.75 | HLSP-SB-2B-(4.5) | HLSP-SB-3A-(0-2) | HLSP-SB-3A-(1) | HLSP-SB-3B-(2.5) | HLSP-SB-3B-(2-7.5) |
| | | | | *Laboratory ID* | J6204-02 | J6204-01 | J6204-03 | J6204-04 | J6204-06 | J6204-05 | J6204-08 | J6204-07 | J6206-17 | J6206-16 | J6206-18 | J6206-19 |
| | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 9.75 | 4.0 - 4.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 7.5 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | | | |
| **SVOCs (continued)** | | | | | | | | | | | | | | | | |
| Benzo(K)Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Benzyl Butyl Phthalate | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Biphenyl (Diphenyl) | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Bis(2-Chloroethoxy) Methane | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether) | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Bis(2-Chloroisopropyl) Ether | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Bis(2-Ethylhexyl) Phthalate | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Caprolactam | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Carbazole | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Chrysene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Dibenz(A,H)Anthracene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Dibenzofuran | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Diethyl Phthalate | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Dimethyl Phthalate | NC | NC | NC | NC | **0.31 J** | NA | NA | **0.16 J** | **0.52** | NA | **0.48** | NA | **0.15 J** | NA | NA | **0.18 J** |
| Di-N-Butyl Phthalate | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Di-N-Octylphthalate | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Fluorene | 30 | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Hexachlorobenzene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Hexachlorobutadiene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Hexachlorocyclopentadiene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Hexachloroethane | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Indeno(1,2,3-C,D)Pyrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Isophorone | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Naphthalene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Nitrobenzene | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| N-Nitrosodi-N-Propylamine | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| N-Nitrosodiphenylamine | NC | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Pentachlorophenol | 0.8 | NC | NC | NC | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Phenanthrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| Phenol | 30 | NC | NC | NC | **0.17 J** | NA | NA | **0.21 J** | **0.27 J** | NA | **0.26 J** | NA | **0.17 J** | NA | NA | **0.22 J** |
| Pyrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.35 U | NA | NA | 0.35 U | 0.36 U | NA | 0.35 U | NA | 0.35 U | NA | NA | 0.37 U |
| **General Chemistry** | | | | | | | | | | | | | | | | |
| Total Organic Carbon | NC | NC | NC | NC | **6,440** | NA | NA | **891** | **5,870** | NA | **781** | NA | **11100 OR** | NA | NA | **5080** |

**Notes:**
- All are reported in parts per million (mg\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- TOGS - Technical & Operational Guidance Series, November 2004
- * Criteria is the sum of Pesticides noted
- ** Criteria is the sume of PCBs noted
- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Ecological SCOs**

# Table 3
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
## Soil Sampling Analytical Results (TOGs)

| | | | | *Location ID* | HLSP-SB-4 | | | | HLSP-SB-5 | | | | HLSP-SB-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-4A-(0-2) | HLSP-SB-4A-(1) | HLSP-SB-4B-(2-6) | HLSP-SB-4B-(3.5) | HLSP-SB-5A-(0-2) | HLSP-SB-5A-(1) | HLSP-SB-5B-(2-8.75 | HLSP-SB-5B-(8.5) | HLSP-SB-6A-(0-2) | HLSP-SB-6A-(1) | HLSP-SB-6B-(2-5) | HLSP-SB-6B-(5) |
| | | | | *Laboratory ID* | J6206-13 | J6206-12 | J6206-15 | J6206-14 | J6206-01 | J6204-20 | J6206-03 | J6206-02 | J6206-09 | J6206-08 | J6206-11 | J6206-10 |
| | | | | *Sample Date* | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 6.0 | 3.0 - 3.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 8.75 | 8.0 - 8.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 5.0 | 4.5 - 5.0 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | | | | | | | |
| Aluminum | NC | NC | NC | NC | **5,090** | NA | **2,160** | NA | **1,810** | NA | **2,970** | NA | **848** | NA | **1,060** | NA |
| Antimony | NC | NC | NC | NC | **0.997 J** | NA | 2.45 U | NA | 2.24 U | NA | 2.38 U | NA | 2.21 U | NA | 2.37 U | NA |
| Arsenic | 13 | <14 (8.2) | 14 - 53 (8.2) | >53 | **10.7** | NA | **0.453 J** | NA | **1.17** | NA | **0.775 J** | NA | **0.596 J** | NA | 0.948 U | NA |
| Barium | 433 | NC | NC | NC | **19.9** | NA | **11.6** | NA | **4.46 J** | NA | **6.07** | NA | **3.98 J** | NA | **4.52 J** | NA |
| Beryllium | 10 | NC | NC | NC | **0.241 J** | NA | **0.113 J** | NA | **0.081 J** | NA | **0.115 J** | NA | 0.266 U | NA | 0.284 U | NA |
| Cadmium | 4 | <1.2 | 1.2 - 9.5 | >9.5 | 0.334 U | NA | 0.294 U | NA | 0.269 U | NA | 0.285 U | NA | 0.266 U | NA | 0.284 U | NA |
| Calcium | NC | NC | NC | NC | **146** | NA | **45.6 J** | NA | **34.4 J** | NA | **51.2 J** | NA | **55.6 J** | NA | **30.2 J** | NA |
| Chromium, Hexavalent | 1 | NC | NC | NC | 0.539 U | NA | 0.459 U | NA | 0.43 U | NA | 0.449 U | NA | 0.423 U | NA | 0.453 U | NA |
| Chromium, Trivalent | 41 | NC | NC | NC | **10.13** | NA | **7.85** | NA | **20.8** | NA | **6.21** | NA | **8.65** | NA | **3.32** | NA |
| Chromium, Total | NC | NC | NC | NC | **10.13** | NA | **7.85** | NA | **20.8** | NA | **6.21** | NA | **8.65** | NA | **3.32** | NA |
| Cobalt | NC | NC | NC | NC | **2.31** | NA | **0.89 J** | NA | **0.743 J** | NA | **1.52** | NA | **0.446 J** | NA | **1.58** | NA |
| Copper | 50 | <33 | 33 - 207 (270) | >207 (270) | **20.9** | NA | **1.66** | NA | **5.82** | NA | **2.52** | NA | **4.28** | NA | **1.15** | NA |
| Cyanide | NC | NC | NC | NC | **0.33** | NA | 0.29 U | NA | **0.084 J** | NA | 0.26 U | NA | 0.25 U | NA | **0.061 J** | NA |
| Iron | NC | NC | NC | NC | **26,300** | NA | **3,050** | NA | **5,130** | NA | **3,720** | NA | **1,060** | NA | **1,210** | NA |
| Lead | 63 | <33 (47) | 33 (47) - 166 (218) | >166 (218) | **163** | NA | **4.63** | NA | **18.9** | NA | **3.59** | NA | **26.9** | NA | **1.99** | NA |
| Magnesium | NC | NC | NC | NC | **701** | NA | **301** | NA | **215** | NA | **444** | NA | **110** | NA | **164** | NA |
| Manganese | 1600 | NC | NC | NC | **46.9** | NA | **13.5** | NA | **59.9** | NA | **40.6** | NA | **16.9** | NA | **91** | NA |
| Mercury | 0.18 | <0.17 | 0.17 - 1.6 (1.0) | >1.6 (1.0) | **0.258** | NA | **0.015** | NA | **0.041** | NA | **0.019** | NA | **0.028** | NA | **0.007 J** | NA |
| Nickel | 30 | NC | NC | NC | **5.19** | NA | **3.67** | NA | **1.82** | NA | **4.32** | NA | **3** | NA | **2.25** | NA |
| Potassium | NC | NC | NC | NC | **185** | NA | **125** | NA | **108** | NA | **123** | NA | **91.3** | NA | **160** | NA |
| Selenium | 3.9 | NC | NC | NC | 1.11 U | NA | 0.98 U | NA | 0.895 U | NA | 0.95 U | NA | 0.885 U | NA | 0.948 U | NA |
| Silver | 2 | NC | NC | NC | 0.557 U | NA | 0.49 U | NA | 0.448 U | NA | 0.475 U | NA | 0.443 U | NA | 0.474 U | NA |
| Sodium | NC | NC | NC | NC | **14.8 J** | NA | **3.29 J** | NA | 89.5 U | NA | **11.5 J** | NA | 88.5 U | NA | 94.8 U | NA |
| Thallium | NC | NC | NC | NC | 2.23 U | NA | 1.96 U | NA | 1.79 U | NA | 1.9 U | NA | 1.77 U | NA | 1.9 U | NA |
| Vanadium | NC | NC | NC | NC | **17.5** | NA | **2.96** | NA | **7.28** | NA | **4.71** | NA | **3.04** | NA | **1.47 J** | NA |
| Zinc | 109 | NC | NC | NC | **27.4** | NA | **5.61** | NA | **12.6** | NA | **10.91** | NA | **5.08** | NA | **5.78** | NA |
| **Pesticides** | | | | | | | | | | | | | | | | |
| Aldrin | 0.14 | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Alpha Bhc | 0.04 | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Alpha Endosulfan | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Beta Bhc | 0.6 | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Beta Endosulfan | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Cis-Chlordane | 1.3 | <0.003 | 0.003 - 0.036 | >0.014 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Delta Bhc | 0.04 | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Dieldrin | 0.006 | <0.11 | 0.11 - 0.48 | >0.48 | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Endosulfan Sulfate | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Endrin | 0.014 | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Endrin Aldehyde | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Endrin Ketone | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Gamma Bhc (Lindane) | 6 | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Heptachlor | 0.14 | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Heptachlor Epoxide | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Methoxychlor | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| P,P'-Ddd | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| P,P'-Dde | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | **0.0018 J** | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| P,P'-Ddt | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | **0.0008303 J** | NA | 0.002 U | NA | **0.0003195 J** | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| Toxaphene | NC | NC | NC | NC | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Trans-Chlordane | NC | NC | NC | NC | 0.0023 U | NA | 0.002 U | NA | 0.0018 U | NA | 0.0019 U | NA | 0.0018 U | NA | 0.0019 U | NA |
| **Herbicides** | | | | | | | | | | | | | | | | |
| Silvex (2,4,5-Tp) | NC | NC | NC | NC | 0.091 U | NA | 0.0782 U | NA | 0.0721 U | NA | 0.0763 U | NA | 0.0721 U | NA | 0.0758 U | NA |

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- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
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- **Shaded values exceeded Ecological SCOs**

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*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (TOGs)**

| | | | | *Location ID* | HLSP-SB-4 | | | | HLSP-SB-5 | | | | HLSP-SB-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-4A-(0-2) | HLSP-SB-4A-(1) | HLSP-SB-4B-(2-6) | HLSP-SB-4B-(3.5) | HLSP-SB-5A-(0-2) | HLSP-SB-5A-(1) | HLSP-SB-5B-(2-8.75 | HLSP-SB-5B-(8.5) | HLSP-SB-6A-(0-2) | HLSP-SB-6A-(1) | HLSP-SB-6B-(2-5) | HLSP-SB-6B-(5) |
| | | | | *Laboratory ID* | J6206-13 | J6206-12 | J6206-15 | J6206-14 | J6206-01 | J6204-20 | J6206-03 | J6206-02 | J6206-09 | J6206-08 | J6206-11 | J6206-10 |
| | | | | *Sample Date* | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 6.0 | 3.0 - 3.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 8.75 | 8.0 - 8.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 5.0 | 4.5 - 5.0 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | | | |
| **Polychlorinated Biphenyls (PCBs)** | | | | | | | | | | | | | | | | |
| Pcb-1016 (Aroclor 1016) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Pcb-1221 (Aroclor 1221) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Pcb-1232 (Aroclor 1232) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Pcb-1242 (Aroclor 1242) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Pcb-1248 (Aroclor 1248) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Pcb-1254 (Aroclor 1254) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Pcb-1260 (Aroclor 1260) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Pcb-1262 (Aroclor 1262) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| Pcb-1268 (Aroclor 1268) | NC | <0.1** | 0.1 - 1** | >1** | 0.0231 U | NA | 0.0198 U | NA | 0.0183 U | NA | 0.0193 U | NA | 0.0183 U | NA | 0.0192 U | NA |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1,2,2-Tetrachloroethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1-Dichloroethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,1-Dichloroethene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2,3-Trichlorobenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2,4-Trichlorobenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2,4-Trimethylbenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dichlorobenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dichloroethane | 10 | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,2-Dichloropropane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,3-Dichlorobenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 1,4-Dichlorobenzene | 20 | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| 2-Hexanone | NC | NC | NC | NC | NA | 0.0444 U | NA | 0.0311 U | NA | 0.0258 U | NA | 0.024 U | NA | 0.0294 U | NA | 0.0296 U |
| Acetone | 2.2 | NC | NC | NC | NA | 0.0444 U | NA | **0.0284 J** | NA | 0.0258 U | NA | **0.0278** | NA | **0.017 J** | NA | **0.0254 J** |
| Benzene | 70 | <0.59<br><0.96*** | 0.59 - 2.16<br>0.96 - 5.9*** | >2.16<br>>5.9*** | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | **0.003 J** | NA | **0.0013 J** |
| Bromochloromethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Bromodichloromethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Bromoform | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Bromomethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Carbon Disulfide | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Carbon Tetrachloride | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Chlorobenzene | 40 | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Chloroethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Chloroform | 12 | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Chloromethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Cis-1,2-Dichloroethylene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Cis-1,3-Dichloropropene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Cyclohexane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Dibromochloromethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Ethylbenzene | NC | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | **0.0013 J** | NA | 0.0059 U |
| Isopropylbenzene (Cumene) | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| M,P-Xylene | NC | NC | NC | NC | NA | 0.0178 U | NA | 0.0125 U | NA | 0.0103 U | NA | 0.0096 U | NA | **0.0015 J** | NA | 0.0118 U |
| Methyl Acetate | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Methyl Ethyl Ketone (2-Butanone) | 100 | NC | NC | NC | NA | 0.0444 U | NA | 0.0311 U | NA | 0.0258 U | NA | 0.024 U | NA | 0.0294 U | NA | 0.0296 U |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone | NC | NC | NC | NC | NA | 0.0444 U | NA | 0.0311 U | NA | 0.0258 U | NA | 0.024 U | NA | 0.0294 U | NA | 0.0296 U |
| Methylcyclohexane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | **0.0018 J** | NA | 0.0059 U | NA | 0.0059 U |

**Notes:**
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- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- TOGS - Technical & Operational Guidance Series, November 2004
- * Criteria is the sum of Pesticides noted
- ** Criteria is the sume of PCBs noted
- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Ecological SCOs**

# Table 3
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (TOGs)**

| | | | | *Location ID* | HLSP-SB-4 | | | | HLSP-SB-5 | | | | HLSP-SB-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-4A-(0-2) | HLSP-SB-4A-(1) | HLSP-SB-4B-(2-6) | HLSP-SB-4B-(3.5) | HLSP-SB-5A-(0-2) | HLSP-SB-5A-(1) | HLSP-SB-5B-(2-8.75 | HLSP-SB-5B-(8.5) | HLSP-SB-6A-(0-2) | HLSP-SB-6A-(1) | HLSP-SB-6B-(2-5) | HLSP-SB-6B-(5) |
| | | | | *Laboratory ID* | J6206-13 | J6206-12 | J6206-15 | J6206-14 | J6206-01 | J6204-20 | J6206-03 | J6206-02 | J6206-09 | J6206-08 | J6206-11 | J6206-10 |
| | | | | *Sample Date* | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 6.0 | 3.0 - 3.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 8.75 | 8.0 - 8.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 5.0 | 4.5 - 5.0 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | | | |
| **VOCs (continued)** | | | | | | | | | | | | | | | | |
| Methylene Chloride | NC | NC | NC | NC | NA | **0.0107** | NA | **0.0107** | NA | **0.0062** | NA | **0.0089** | NA | **0.0099** | NA | **0.0224** |
| n-Butylbenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| N-Propylbenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| O-Xylene (1,2-Dimethylbenzene) | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Sec-Butylbenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Styrene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| T-Butylbenzene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Tert-Butyl Methyl Ether | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Tetrachloroethylene (Pce) | 2 | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Toluene | 36 | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | **0.0011 J** | NA | **0.04** | NA | **0.0127** |
| Trans-1,2-Dichloroethene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Trans-1,3-Dichloropropene | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Trichloroethylene (Tce) | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Vinyl Chloride | NC | NC | NC | NC | NA | 0.0089 U | NA | 0.0062 U | NA | 0.0052 U | NA | 0.0048 U | NA | 0.0059 U | NA | 0.0059 U |
| Xylenes | 0.26 | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0267 U | NA | 0.0187 U | NA | 0.0155 U | NA | 0.0144 U | NA | **0.0015 J** | NA | 0.0177 U |
| **Semi-Volatile Organic Compounds** | | | | | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 1,4-Dioxane (P-Dioxane) | 0.1 | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,3,4,6-Tetrachlorophenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4,5-Trichlorophenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4,6-Trichlorophenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4-Dichlorophenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4-Dimethylphenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4-Dinitrophenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,4-Dinitrotoluene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2,6-Dinitrotoluene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Chloronaphthalene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Chlorophenol | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Methylnaphthalene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Methylphenol (O-Cresol) | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Nitroaniline | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 2-Nitrophenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 3&4-Methylphenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 3,3'-Dichlorobenzidine | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 3-Nitroaniline | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4,6-Dinitro-2-Methylphenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Bromophenyl Phenyl Ether | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Chloro-3-Methylphenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Chloroaniline | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Chlorophenyl Phenyl Ether | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Nitroaniline | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| 4-Nitrophenol | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Acenaphthene | 20 | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Acenaphthylene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Acetophenone | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Anthracene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Atrazine | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzaldehyde | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(A)Anthracene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(A)Pyrene | 2.6 | <4**** | 4 - 35 (45)**** | >35(45)**** | **0.0924 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(B)Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | **0.15 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzo(G,H,I)Perylene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |

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- * Criteria is the sum of Pesticides noted
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- **Shaded values exceeded Ecological SCOs**

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*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (TOGs)**

| | | | | *Location ID* | HLSP-SB-4 | | | | HLSP-SB-5 | | | | HLSP-SB-6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-4A-(0-2) | HLSP-SB-4A-(1) | HLSP-SB-4B-(2-6) | HLSP-SB-4B-(3.5) | HLSP-SB-5A-(0-2) | HLSP-SB-5A-(1) | HLSP-SB-5B-(2-8.75 | HLSP-SB-5B-(8.5) | HLSP-SB-6A-(0-2) | HLSP-SB-6A-(1) | HLSP-SB-6B-(2-5) | HLSP-SB-6B-(5) |
| | | | | *Laboratory ID* | J6206-13 | J6206-12 | J6206-15 | J6206-14 | J6206-01 | J6204-20 | J6206-03 | J6206-02 | J6206-09 | J6206-08 | J6206-11 | J6206-10 |
| | | | | *Sample Date* | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 | 11/30/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 6.0 | 3.0 - 3.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 8.75 | 8.0 - 8.5 | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 5.0 | 4.5 - 5.0 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | | | |
| **SVOCs (continued)** | | | | | | | | | | | | | | | | |
| Benzo(K)Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Benzyl Butyl Phthalate | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Biphenyl (Diphenyl) | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Bis(2-Chloroethoxy) Methane | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether) | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Bis(2-Chloroisopropyl) Ether | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Bis(2-Ethylhexyl) Phthalate | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Caprolactam | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Carbazole | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Chrysene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | **0.097 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Dibenz(A,H)Anthracene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Dibenzofuran | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Diethyl Phthalate | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Dimethyl Phthalate | NC | NC | NC | NC | **0.38 J** | NA | **0.18 J** | NA | **0.27 J** | NA | **0.31 J** | NA | **0.29 J** | NA | **0.45** | NA |
| Di-N-Butyl Phthalate | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Di-N-Octylphthalate | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | **0.16 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Fluorene | 30 | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Hexachlorobenzene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Hexachlorobutadiene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Hexachlorocyclopentadiene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Hexachloroethane | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Indeno(1,2,3-C,D)Pyrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Isophorone | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Naphthalene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Nitrobenzene | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| N-Nitrosodi-N-Propylamine | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| N-Nitrosodiphenylamine | NC | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Pentachlorophenol | 0.8 | NC | NC | NC | 0.45 U | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Phenanthrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | **0.0973 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| Phenol | 30 | NC | NC | NC | **0.32 J** | NA | **0.23 J** | NA | **0.26 J** | NA | **0.29 J** | NA | **0.21 J** | NA | **0.3 J** | NA |
| Pyrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | **0.15 J** | NA | 0.39 U | NA | 0.36 U | NA | 0.38 U | NA | 0.36 U | NA | 0.37 U | NA |
| **General Chemistry** | | | | | | | | | | | | | | | | |
| Total Organic Carbon | NC | NC | NC | NC | **33700 OR** | NA | **20500 OR** | NA | **16300 OR** | NA | **10400 OR** | NA | **12500 OR** | NA | **2,250** | NA |

**Notes:**
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- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- TOGS - Technical & Operational Guidance Series, November 2004
- * Criteria is the sum of Pesticides noted
- ** Criteria is the sume of PCBs noted
- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Ecological SCOs**

# Table 3
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (TOGs)**

| | | | | *Location ID* | HLSP-SB-7 | | | | HLSP-SB-8 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-7A-(0-2) | HLSP-SB-7A-(1) | HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2-6) | HLSP-SB-8A-(0-2) | HLSP-DUP01-112918 | HLSP-SB-8A-(1) | HLSP-DUP01-112918 | HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(9.5) |
| | | | | *Laboratory ID* | J6204-11 | J6204-10 | J6204-12 | J6204-13 | J6204-15 | J6204-19 | J6204-14 | J6204-18 | J6204-17 | J6204-16 |
| | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 | 2.0 - 9.75 | 9.0 - 9.5 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | |
| **Inorganics** | | | | | | | | | | | | | | |
| Aluminum | NC | NC | NC | NC | **2,470** | NA | NA | **4,240** | **1,630** | **1,470** | NA | NA | **1,360** | NA |
| Antimony | NC | NC | NC | NC | 2.29 U | NA | NA | 2.26 U | 2.32 U | 2.32 U | NA | NA | 2.21 U | NA |
| Arsenic | 13 | <14 (8.2) | 14 - 53 (8.2) | >53 | **1.86** | NA | NA | **1.21** | **3.27** | **2.78** | NA | NA | **0.513 J** | NA |
| Barium | 433 | NC | NC | NC | **12.8** | NA | NA | **35** | **4.9** | **4.62 J** | NA | NA | **4.8** | NA |
| Beryllium | 10 | NC | NC | NC | **0.093 J** | NA | NA | **0.209 J** | 0.278 U | 0.279 U | NA | NA | **0.076 J** | NA |
| Cadmium | 4 | <1.2 | 1.2 - 9.5 | >9.5 | 0.275 U | NA | NA | 0.272 U | 0.278 U | 0.279 U | NA | NA | 0.265 U | NA |
| Calcium | NC | NC | NC | NC | **113** | NA | NA | **169** | **42.4 J** | **35.2 J** | NA | NA | **15.2 J** | NA |
| Chromium, Hexavalent | 1 | NC | NC | NC | 0.437 U | NA | NA | 0.43 U | 0.438 U | 0.444 U | NA | NA | 0.419 U | NA |
| Chromium, Trivalent | 41 | NC | NC | NC | **4.15** | NA | NA | **5.18** | **4.1** | **4.23** | NA | NA | **4.44** | NA |
| Chromium, Total | NC | NC | NC | NC | **4.15** | NA | NA | **5.18** | **4.1** | **4.23** | NA | NA | **4.44** | NA |
| Cobalt | NC | NC | NC | NC | **1.1 J** | NA | NA | **2.8** | **0.859 J** | **0.781 J** | NA | NA | **1.11 J** | NA |
| Copper | 50 | <33 | 33 - 207 (270) | >207 (270) | **5.54** | NA | NA | **4.51** | **4.75** | **4.27** | NA | NA | **1.57** | NA |
| Cyanide | NC | NC | NC | NC | **0.038 J** | NA | NA | 0.26 U | **0.044 J** | **0.066 J** | NA | NA | **0.049 J** | NA |
| Iron | NC | NC | NC | NC | **4,150** | NA | NA | **6,480** | **6,430** | **5,940** | NA | NA | **3,590** | NA |
| Lead | 63 | <33 (47) | 33 (47) - 166 (218) | >166 (218) | **46** | NA | NA | **21** | **27.9** | **24.9** | NA | NA | **4.57** | NA |
| Magnesium | NC | NC | NC | NC | **371** | NA | NA | **610** | **217** | **197** | NA | NA | **238** | NA |
| Manganese | 1600 | NC | NC | NC | **75.4** | NA | NA | **146** | **32.3** | **27.8** | NA | NA | **112** | NA |
| Mercury | 0.18 | <0.17 | 0.17 - 1.6 (1.0) | >1.6 (1.0) | **0.28** | NA | NA | **0.187** | **0.068** | **0.071** | NA | NA | **0.081** | NA |
| Nickel | 30 | NC | NC | NC | **2.09** | NA | NA | **4.09** | **1.39 J** | **1.56 J** | NA | NA | **2.04** | NA |
| Potassium | NC | NC | NC | NC | **159** | NA | NA | **148** | **120** | **117** | NA | NA | **101** | NA |
| Selenium | 3.9 | NC | NC | NC | 0.917 U | NA | NA | 0.906 U | 0.927 U | **1.16** | NA | NA | 0.884 U | NA |
| Silver | 2 | NC | NC | NC | 0.458 U | NA | NA | 0.453 U | 0.463 U | 0.465 U | NA | NA | 0.442 U | NA |
| Sodium | NC | NC | NC | NC | 91.7 U | NA | NA | **8.92 J** | 92.7 U | **8.69 J** | NA | NA | 88.4 U | NA |
| Thallium | NC | NC | NC | NC | 1.83 U | NA | NA | 1.81 U | 1.85 U | 1.86 U | NA | NA | 1.77 U | NA |
| Vanadium | NC | NC | NC | NC | **5.75** | NA | NA | **7.23** | **5.93** | **5.67** | NA | NA | **2.52** | NA |
| Zinc | 109 | NC | NC | NC | **11.2** | NA | NA | **18.2** | **5.37** | **4.9** | NA | NA | **4.65** | NA |
| **Pesticides** | | | | | | | | | | | | | | |
| Aldrin | 0.14 | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Alpha Bhc | 0.04 | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Alpha Endosulfan | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Beta Bhc | 0.6 | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Beta Endosulfan | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Cis-Chlordane | 1.3 | <0.003 | 0.003 - 0.036 | >0.014 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Delta Bhc | 0.04 | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Dieldrin | 0.006 | <0.11 | 0.11 - 0.48 | >0.48 | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Endosulfan Sulfate | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Endrin | 0.014 | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Endrin Aldehyde | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Endrin Ketone | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Gamma Bhc (Lindane) | 6 | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Heptachlor | 0.14 | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Heptachlor Epoxide | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| Methoxychlor | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| P,P'-Ddd | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| P,P'-Dde | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | **0.0004616 U** | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| P,P'-Ddt | 0.0033 | < 0.003* | 0.003 - 0.03* | >0.03* | 0.0019 U | NA | NA | 0.0018 U | **0.0003073 J** | 0.0019 U | NA | NA | 0.0018 U | NA |
| Toxaphene | NC | NC | NC | NC | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Trans-Chlordane | NC | NC | NC | NC | 0.0019 U | NA | NA | 0.0018 U | 0.0019 U | 0.0019 U | NA | NA | 0.0018 U | NA |
| **Herbicides** | | | | | | | | | | | | | | |
| Silvex (2,4,5-Tp) | NC | NC | NC | NC | 0.0733 U | NA | NA | 0.0728 U | 0.0744 U | 0.0741 U | NA | NA | 0.0704 U | NA |

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*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (TOGs)**

| | | | | *Location ID* | HLSP-SB-7 | | | | HLSP-SB-8 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-7A-(0-2) | HLSP-SB-7A-(1) | HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2-6) | HLSP-SB-8A-(0-2) | HLSP-DUP01-112918 | HLSP-SB-8A-(1) | HLSP-DUP01-112918 | HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(9.5) |
| | | | | *Laboratory ID* | J6204-11 | J6204-10 | J6204-12 | J6204-13 | J6204-15 | J6204-19 | J6204-14 | J6204-18 | J6204-17 | J6204-16 |
| | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 | 2.0 - 9.75 | 9.0 - 9.5 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | |
| **Polychlorinated Biphenyls (PCBs)** | | | | | | | | | | | | | | |
| Pcb-1016 (Aroclor 1016) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Pcb-1221 (Aroclor 1221) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Pcb-1232 (Aroclor 1232) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Pcb-1242 (Aroclor 1242) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Pcb-1248 (Aroclor 1248) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Pcb-1254 (Aroclor 1254) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Pcb-1260 (Aroclor 1260) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Pcb-1262 (Aroclor 1262) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| Pcb-1268 (Aroclor 1268) | NC | <0.1** | 0.1 - 1** | >1** | 0.0187 U | NA | NA | 0.0184 U | 0.0189 U | 0.0189 U | NA | NA | 0.0179 U | NA |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1,2,2-Tetrachloroethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1-Dichloroethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,1-Dichloroethene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2,3-Trichlorobenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2,4-Trichlorobenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2,4-Trimethylbenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dichlorobenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dichloroethane | 10 | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,2-Dichloropropane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,3-Dichlorobenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 1,4-Dichlorobenzene | 20 | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| 2-Hexanone | NC | NC | NC | NC | NA | 0.0235 U | 0.0217 U | NA | NA | NA | 0.0304 U | 0.0338 U | NA | 0.0182 U |
| Acetone | 2.2 | NC | NC | NC | NA | 0.0235 U | 0.0217 U | NA | NA | NA | **0.0212 J** | **0.01 J** | NA | **0.0139 J** |
| Benzene | 70 | <0.59<br><0.96*** | 0.59 - 2.16<br>0.96 - 5.9*** | >2.16<br>>5.9*** | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Bromochloromethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Bromodichloromethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Bromoform | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Bromomethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Carbon Disulfide | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Carbon Tetrachloride | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Chlorobenzene | 40 | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Chloroethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Chloroform | 12 | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Chloromethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Cis-1,2-Dichloroethylene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Cis-1,3-Dichloropropene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Cyclohexane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Dibromochloromethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Ethylbenzene | NC | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Isopropylbenzene (Cumene) | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| M,P-Xylene | NC | NC | NC | NC | NA | 0.0094 U | 0.0087 U | NA | NA | NA | 0.0122 U | 0.0135 U | NA | 0.0073 U |
| Methyl Acetate | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Methyl Ethyl Ketone (2-Butanone) | 100 | NC | NC | NC | NA | 0.0235 U | 0.0217 U | NA | NA | NA | 0.0304 U | 0.0338 U | NA | 0.0182 U |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone | NC | NC | NC | NC | NA | 0.0235 U | 0.0217 U | NA | NA | NA | 0.0304 U | 0.0338 U | NA | 0.0182 U |
| Methylcyclohexane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |

**Notes:**
- All are reported in parts per million (mg\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- TOGS - Technical & Operational Guidance Series, November 2004
- * Criteria is the sum of Pesticides noted
- ** Criteria is the sume of PCBs noted
- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Ecological SCOs**

# Table 3
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**Soil Sampling Analytical Results (TOGs)**

| | | | | *Location ID* | HLSP-SB-7 | | | | HLSP-SB-8 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-7A-(0-2) | HLSP-SB-7A-(1) | HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2-6) | HLSP-SB-8A-(0-2) | HLSP-DUP01-112918 | HLSP-SB-8A-(1) | HLSP-DUP01-112918 | HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(9.5) |
| | | | | *Laboratory ID* | J6204-11 | J6204-10 | J6204-12 | J6204-13 | J6204-15 | J6204-19 | J6204-14 | J6204-18 | J6204-17 | J6204-16 |
| | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 | 2.0 - 9.75 | 9.0 - 9.5 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | |
| **VOCs (continued)** | | | | | | | | | | | | | | |
| Methylene Chloride | NC | NC | NC | NC | NA | **0.0026 J** | **0.003 J** | NA | NA | NA | **0.0055 J** | **0.0083** | NA | **0.0027 J** |
| n-Butylbenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| N-Propylbenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| O-Xylene (1,2-Dimethylbenzene) | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Sec-Butylbenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Styrene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| T-Butylbenzene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Tert-Butyl Methyl Ether | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Tetrachloroethylene (Pce) | 2 | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Toluene | 36 | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Trans-1,2-Dichloroethene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Trans-1,3-Dichloropropene | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Trichloroethylene (Tce) | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Vinyl Chloride | NC | NC | NC | NC | NA | 0.0047 U | 0.0043 U | NA | NA | NA | 0.0061 U | 0.0068 U | NA | 0.0036 U |
| Xylenes | 0.26 | <0.96*** | 0.96 - 5.9*** | >5.9*** | NA | 0.0141 U | 0.013 U | NA | NA | NA | 0.0183 U | 0.0203 U | NA | 0.0109 U |
| **Semi-Volatile Organic Compounds** | | | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 1,4-Dioxane (P-Dioxane) | 0.1 | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,3,4,6-Tetrachlorophenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4,5-Trichlorophenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4,6-Trichlorophenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4-Dichlorophenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4-Dimethylphenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4-Dinitrophenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,4-Dinitrotoluene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2,6-Dinitrotoluene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Chloronaphthalene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Chlorophenol | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Methylnaphthalene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Methylphenol (O-Cresol) | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Nitroaniline | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 2-Nitrophenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 3&4-Methylphenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 3,3'-Dichlorobenzidine | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 3-Nitroaniline | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4,6-Dinitro-2-Methylphenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Bromophenyl Phenyl Ether | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Chloro-3-Methylphenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Chloroaniline | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Chlorophenyl Phenyl Ether | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Nitroaniline | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| 4-Nitrophenol | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Acenaphthene | 20 | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Acenaphthylene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Acetophenone | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Anthracene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Atrazine | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzaldehyde | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(A)Anthracene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(A)Pyrene | 2.6 | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(B)Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzo(G,H,I)Perylene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |

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- TOGS - Technical & Operational Guidance Series, November 2004
- * Criteria is the sum of Pesticides noted
- ** Criteria is the sume of PCBs noted
- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Ecological SCOs**

# Table 3

*Hempstead Lake State Park*
*West Hempstead, NY*
*Governor's Office of Storm Recovery*

## Soil Sampling Analytical Results (TOGs)

| | | | | *Location ID* | HLSP-SB-7 | | | | HLSP-SB-8 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Sample ID* | HLSP-SB-7A-(0-2) | HLSP-SB-7A-(1) | HLSP-SB-7B-(2.5) | HLSP-SB-7B-(2-6) | HLSP-SB-8A-(0-2) | HLSP-DUP01-112918 | HLSP-SB-8A-(1) | HLSP-DUP01-112918 | HLSP-SB-8B-(2-9.75) | HLSP-SB-8B-(9.5) |
| | | | | *Laboratory ID* | J6204-11 | J6204-10 | J6204-12 | J6204-13 | J6204-15 | J6204-19 | J6204-14 | J6204-18 | J6204-17 | J6204-16 |
| | | | | *Sample Date* | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 | 11/29/2018 |
| | | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.5 - 1.0 | 2.0 - 2.5 | 2.0 - 6.0 | 0.0 - 2.0 | 0.5 - 1.0 | 0.5 - 1.0 | 0.5 - 1.0 | 2.0 - 9.75 | 9.0 - 9.5 |
| | *Soil Cleanup Criteria* | *TOGS Sediment Quality Threshold Values* | | | | | | | | | | | | |
| *Analyte* | *Protection of Ecological Resources* | *Class A* | *Class B* | *Class C* | | | | | | | | | | |
| **SVOCs (continued)** | | | | | | | | | | | | | | |
| Benzo(K)Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Benzyl Butyl Phthalate | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Biphenyl (Diphenyl) | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Bis(2-Chloroethoxy) Methane | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether) | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Bis(2-Chloroisopropyl) Ether | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Bis(2-Ethylhexyl) Phthalate | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Caprolactam | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Carbazole | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Chrysene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Dibenz(A,H)Anthracene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Dibenzofuran | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Diethyl Phthalate | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Dimethyl Phthalate | NC | NC | NC | NC | **0.29 J** | NA | NA | **0.2 J** | **0.18 J** | **0.3 J** | NA | NA | **0.34 J** | NA |
| Di-N-Butyl Phthalate | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Di-N-Octylphthalate | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Fluoranthene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Fluorene | 30 | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Hexachlorobenzene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Hexachlorobutadiene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Hexachlorocyclopentadiene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Hexachloroethane | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Indeno(1,2,3-C,D)Pyrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Isophorone | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Naphthalene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Nitrobenzene | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| N-Nitrosodi-N-Propylamine | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| N-Nitrosodiphenylamine | NC | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Pentachlorophenol | 0.8 | NC | NC | NC | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Phenanthrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| Phenol | 30 | NC | NC | NC | **0.29 J** | NA | NA | **0.26 J** | **0.25 J** | **0.3 J** | NA | NA | **0.29 J** | NA |
| Pyrene | NC | <4**** | 4 - 35 (45)**** | >35(45)**** | 0.36 U | NA | NA | 0.36 U | 0.37 U | 0.36 U | NA | NA | 0.35 U | NA |
| **General Chemistry** | | | | | | | | | | | | | | |
| Total Organic Carbon | NC | NC | NC | NC | **11900 OR** | NA | NA | **5,910** | **17100 OR** | **19200 OR** | NA | NA | **6,130** | NA |

**Notes:**
- All are reported in parts per million (mg\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- SCOs - Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
- TOGS - Technical & Operational Guidance Series, November 2004
- * Criteria is the sum of Pesticides noted
- ** Criteria is the sume of PCBs noted
- *** Criteria is the sum of BTEX (benzene, toluene, ethylbenzene, xylene)
- **** Criteria is the sum of PAHs noted.
- J = Estimated Value
- NA = Not Analyzed
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **OR = Out of Range (waiting on updated results)**
- **Shaded values exceeded Ecological SCOs**

**Table 4**
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**QA/QC Sampling Analytical Results**

| *Location ID* | Field Blank | Trip Blank |
|---|---|---|
| *Sample ID* | HLSP-FB1-112918 | HLSP-TB1-113018 |
| *Laboratory ID* | J6204-09 | J6206-21 |
| *Sample Date* | 11/29/2018 | 11/30/2018 |
| *Analyte* | | |
| **Metals** | | |
| Aluminum | **7.39 J** | NA |
| Antimony | 25 U | NA |
| Arsenic | 10 U | NA |
| Barium | 50 U | NA |
| Beryllium | 3 U | NA |
| Cadmium | 3 U | NA |
| Calcium | 1,000 U | NA |
| Chromium, Hexavalent | 0.01 U | NA |
| Chromium, Trivalent | 0.01 U | NA |
| Chromium, Total | **4.7 J** | NA |
| Cobalt | 15 U | NA |
| Copper | 10 U | NA |
| Iron | **27.5 J** | NA |
| Lead | 6 U | NA |
| Magnesium | 1000 U | NA |
| Manganese | 10 U | NA |
| Mercury | 0.2 U | NA |
| Nickel | 20 U | NA |
| Potassium | **91.5 J** | NA |
| Selenium | 10 U | NA |
| Silver | 5 U | NA |
| Sodium | 1000 U | NA |
| Thallium | 20 U | NA |
| Vanadium | 20 U | NA |
| Zinc | **17.1 J** | NA |
| **Pesticides** | | |
| Aldrin | 0.05 U | NA |
| Alpha Bhc (Alpha Hexachlorocyclohexane) | 0.05 U | NA |
| Alpha Endosulfan | 0.05 U | NA |
| Beta Bhc (Beta Hexachlorocyclohexane) | 0.05 U | NA |
| Beta Endosulfan | 0.05 U | NA |
| Cis-Chlordane | 0.05 U | NA |
| Delta Bhc (Delta Hexachlorocyclohexane) | 0.05 U | NA |
| Dieldrin | 0.05 U | NA |
| Endosulfan Sulfate | 0.05 U | NA |
| Endrin | 0.05 U | NA |
| Endrin Aldehyde | 0.05 U | NA |
| Endrin Ketone | 0.05 U | NA |
| Gamma Bhc (Lindane) | 0.05 U | NA |
| Heptachlor | 0.05 U | NA |
| Heptachlor Epoxide | 0.05 U | NA |
| Methoxychlor | 0.05 U | NA |
| P,P'-Ddd | 0.05 U | NA |
| P,P'-Dde | 0.05 U | NA |
| P,P'-Ddt | 0.05 U | NA |
| Toxaphene | 0.5 U | NA |
| Trans-Chlordane | 0.05 U | NA |
| EPA 8082 | | |
| **PCBs** | | |
| Pcb-1016 (Aroclor 1016) | 0.5 U | NA |
| Pcb-1221 (Aroclor 1221) | 0.5 U | NA |
| Pcb-1232 (Aroclor 1232) | 0.5 U | NA |
| Pcb-1242 (Aroclor 1242) | 0.5 U | NA |
| Pcb-1248 (Aroclor 1248) | 0.5 U | NA |
| Pcb-1254 (Aroclor 1254) | 0.5 U | NA |
| Pcb-1260 (Aroclor 1260) | 0.5 U | NA |
| Pcb-1262 (Aroclor 1262) | 0.5 U | NA |
| Pcb-1268 (Aroclor 1268) | 0.5 U | NA |
| EPA 8151A | | |
| **Herbicides** | | |
| Silvex (2,4,5-Tp) | 2 U | NA |
| **Volatile Organic Compounds** | | |
| 1,1,1-Trichloroethane | 1 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 1 U | 5 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1 U | 5 U |
| 1,1,2-Trichloroethane | 1 U | 5 U |
| 1,1-Dichloroethane | 1 U | 5 U |
| 1,1-Dichloroethene | 1 U | 5 U |
| 1,2,3-Trichlorobenzene | 1 U | 5 U |
| 1,2,4-Trichlorobenzene | 1 U | 5 U |
| 1,2,4-Trimethylbenzene | 1 U | NA |
| 1,2-Dibromo-3-Chloropropane | 1 U | 5 U |

**Notes:**
- All are reported in parts per billion (µg/L)
- J = Estimated Value
- NA = Not Analyzed
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**

**Table 4**
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**QA/QC Sampling Analytical Results**

| **VOCs (continued)** | | |
|---|---|---|
| 1,2-Dibromoethane (Ethylene Dibromide) | 1 U | 5 U |
| 1,2-Dichlorobenzene | 1 U | 5 U |
| 1,2-Dichloroethane | 1 U | 5 U |
| 1,2-Dichloropropane | 1 U | 5 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 1 U | NA |
| 1,3-Dichlorobenzene | 1 U | 5 U |
| 1,4-Dichlorobenzene | 1 U | 5 U |
| 2-Hexanone | 5 U | 25 U |
| Acetone | 5 U | 25 U |
| Benzene | 1 U | 5 U |
| Bromochloromethane | 1 U | 5 U |
| Bromodichloromethane | 1 U | 5 U |
| Bromoform | 1 U | 5 U |
| Bromomethane | 1 U | 5 U |
| Carbon Disulfide | 1 U | 5 U |
| Carbon Tetrachloride | 1 U | 5 U |
| Chlorobenzene | 1 U | 5 U |
| Chloroethane | 1 U | 5 U |
| Chloroform | 1 U | 5 U |
| Chloromethane | 1 U | 5 U |
| Cis-1,2-Dichloroethylene | 1 U | 5 U |
| Cis-1,3-Dichloropropene | 1 U | 5 U |
| Cyclohexane | 1 U | 5 U |
| Dibromochloromethane | 1 U | 5 U |
| Dichlorodifluoromethane | 1 U | 5 U |
| Ethylbenzene | 1 U | 5 U |
| Isopropylbenzene (Cumene) | 1 U | 5 U |
| M,P-Xylene | 2 U | 10 U |
| Methyl Acetate | **2** | 5 U |
| Methyl Ethyl Ketone (2-Butanone) | 5 U | 25 U |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 5 U | 25 U |
| Methylcyclohexane | 1 U | 5 U |
| Methylene Chloride | 1 U | 5 U |
| n-Butylbenzene | 1 U | NA |
| N-Propylbenzene | 1 U | NA |
| O-Xylene (1,2-Dimethylbenzene) | 1 U | 5 U |
| Sec-Butylbenzene | 1 U | NA |
| Styrene | 1 U | 5 U |
| T-Butylbenzene | 1 U | NA |
| Tert-Butyl Methyl Ether | 1 U | 5 U |
| Tetrachloroethylene (Pce) | 1 U | 5 U |
| Toluene | 1 U | 5 U |
| Trans-1,2-Dichloroethene | 1 U | 5 U |
| Trans-1,3-Dichloropropene | 1 U | 5 U |
| Trichloroethylene (Tce) | 1 U | 5 U |
| Trichlorofluoromethane | 1 U | 5 U |
| Vinyl Chloride | 1 U | 5 U |
| Xylenes | 3 U | NA |
| **Semi-Volatile Organic Compounds** | | |
| 1,2,4,5-Tetrachlorobenzene | 10 U | NA |
| 1,4-Dioxane (P-Dioxane) | 10 U | NA |
| 2,3,4,6-Tetrachlorophenol | 10 U | NA |
| 2,4,5-Trichlorophenol | 10 U | NA |
| 2,4,6-Trichlorophenol | 10 U | NA |
| 2,4-Dichlorophenol | 10 U | NA |
| 2,4-Dimethylphenol | 10 U | NA |
| 2,4-Dinitrophenol | 10 U | NA |
| 2,4-Dinitrotoluene | 10 U | NA |
| 2,6-Dinitrotoluene | 10 U | NA |
| 2-Chloronaphthalene | 10 U | NA |
| 2-Chlorophenol | 10 U | NA |
| 2-Methylnaphthalene | 10 U | NA |
| 2-Methylphenol (O-Cresol) | 10 U | NA |
| 2-Nitroaniline | 10 U | NA |
| 2-Nitrophenol | 10 U | NA |
| 3&4-Methylphenol | 10 U | NA |
| 3,3'-Dichlorobenzidine | 10 U | NA |
| 3-Nitroaniline | 10 U | NA |
| 4,6-Dinitro-2-Methylphenol | 10 U | NA |
| 4-Bromophenyl Phenyl Ether | 10 U | NA |
| 4-Chloro-3-Methylphenol | 10 U | NA |
| 4-Chloroaniline | 10 U | NA |
| 4-Chlorophenyl Phenyl Ether | 10 U | NA |
| 4-Nitroaniline | 10 U | NA |
| 4-Nitrophenol | 10 U | NA |
| Acenaphthene | 10 U | NA |
| Acenaphthylene | 10 U | NA |

**Notes:**
- All are reported in parts per billion (µg/L)
- J = Estimated Value
- NA = Not Analyzed
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**

**Table 4**
*Hempstead Lake State Park*
*West Hempstead, NY*
*Govornor's Office of Storm Recovery*
**QA/QC Sampling Analytical Results**

| **Semi-Volatile Organic Compounds** | | |
|---|---|---|
| Acetophenone | 10 U | NA |
| Anthracene | 10 U | NA |
| Atrazine | 10 U | NA |
| Benzaldehyde | 10 U | NA |
| Benzo(A)Anthracene | 10 U | NA |
| Benzo(A)Pyrene | 10 U | NA |
| Benzo(B)Fluoranthene | 10 U | NA |
| Benzo(G,H,I)Perylene | 10 U | NA |
| Benzo(K)Fluoranthene | 10 U | NA |
| Benzyl Butyl Phthalate | 10 U | NA |
| Biphenyl (Diphenyl) | 10 U | NA |
| Bis(2-Chloroethoxy) Methane | 10 U | NA |
| Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether) | 10 U | NA |
| Bis(2-Chloroisopropyl) Ether | 10 U | NA |
| Bis(2-Ethylhexyl) Phthalate | 10 U | NA |
| Caprolactam | 10 U | NA |
| Carbazole | 10 U | NA |
| Chrysene | 10 U | NA |
| Dibenz(A,H)Anthracene | 10 U | NA |
| Dibenzofuran | 10 U | NA |
| Diethyl Phthalate | 10 U | NA |
| Dimethyl Phthalate | 10 U | NA |
| Di-N-Butyl Phthalate | 10 U | NA |
| Di-N-Octylphthalate | 10 U | NA |
| Fluoranthene | 10 U | NA |
| Fluorene | 10 U | NA |
| Hexachlorobenzene | 10 U | NA |
| Hexachlorobutadiene | 10 U | NA |
| Hexachlorocyclopentadiene | 10 U | NA |
| Hexachloroethane | 10 U | NA |
| Indeno(1,2,3-C,D)Pyrene | 10 U | NA |
| Isophorone | 10 U | NA |
| Naphthalene | 10 U | NA |
| Nitrobenzene | 10 U | NA |
| N-Nitrosodi-N-Propylamine | 10 U | NA |
| N-Nitrosodiphenylamine | 10 U | NA |
| Pentachlorophenol | 10 U | NA |
| Phenanthrene | 10 U | NA |
| Phenol | 10 U | NA |
| Pyrene | 10 U | NA |
| **General Chemistry** | | |
| Cyanide | 0.005 U | NA |

**Notes:**
- All are reported in parts per billion (µg/L)
- J = Estimated Value
- NA = Not Analyzed
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
**- Bold values indicate positive detections**

**Table 5**
Hempstead Lake State Park
West Hempstead, NY
Govornor's Office of Storm Recovery
**Soil Sampling Analytical Results - Dioxins**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *Location ID* | HLSP-SB-1 | HLSP-SB-3 | HLSP-SB-5 | HLSP-SB-6 | HLSP-SB-7 |
| | | | *Sample ID* | HLSP-SB-1A-(0-2) | HLSP-SB-3A-(0-2) | HLSP-SB-5B-(2-8.75) | HLSP-SB-6B-(2-5) | HLSP-SB-7A-(0-2) |
| | | | *Laboratory ID* | 9922600 | 9922603 | 9922604 | 9922602 | 9922601 |
| | | | *Sample Date* | 11/29/2018 | 11/30/2018 | 11/29/2018 | 11/30/2018 | 11/29/2018 |
| | | | *Sample Depth (ft bgs)* | 0.0 - 2.0 | 0.0 - 2.0 | 2.0 - 8.75 | 2.0 - 5.0 | 0.0 - 2.0 |
| *Analyte* | *TOGS Sediment Quality Threshold Values* | | | | | | | |
| | *Class A* | *Class B* | *Class C* | | | | | |
| **Dioxins** | | | | | | | | |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | NC | NC | NC | **3.81 JB** | **0.653 JB** | **0.34 JB** | **0.201 JB** | **3.47 JB** |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-P-Dioxin | NC | NC | NC | **35.3 B** | **4.87 JB** | **10.7 B** | **0.934 JB** | **62.9 B** |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | NC | NC | NC | **0.336 JB** | **0.126 JB** | **0.0872 JB** | **0.0634 JB** | **0.344 JB** |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | NC | NC | NC | **0.639 JB** | **0.159 JB** | **0.123 JB** | **0.0567 JB** | **0.908 JB** |
| 1,2,3,4,7,8-Hexachlorodibenzo-P-Dioxin | NC | NC | NC | **0.66 JB** | **0.149 JB** | **0.138 JB** | **0.0549 JB** | **1 JB** |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | NC | NC | NC | **0.653 JB** | **0.177 JB** | **0.113 JB** | **0.0706 JB** | **0.945 JB** |
| 1,2,3,6,7,8-Hexachlorodibenzo-P-Dioxin | NC | NC | NC | **1.07 JB** | **0.262 JB** | **0.141 JB** | **0.103 JB** | **1.61 JB** |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | NC | NC | NC | **0.246 JB** | **0.199 JB** | **0.145 JB** | **0.109 JB** | 5.15 U |
| 1,2,3,7,8,9-Hexachlorodibenzo-P-Dioxin | NC | NC | NC | **1.34 JB** | **0.549 JB** | **0.248 JB** | **0.101 JB** | **1.73 JB** |
| 1,2,3,7,8-Pentachlorodibenzofuran | NC | NC | NC | **0.485 JB** | **0.197 JB** | **0.172 JB** | **0.0873 JB** | **0.889 JB** |
| 1,2,3,7,8-Pentachlorodibenzo-P-Dioxin | NC | NC | NC | **0.472 JB** | **0.126 JB** | **0.0625 JB** | **0.0709 JB** | **0.901 JB** |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | NC | NC | NC | **0.784 JB** | **0.216 JB** | **0.146 JB** | **0.0894 JB** | **1.25 JB** |
| 2,3,4,7,8-Pentachlorodibenzofuran | NC | NC | NC | **0.972 JB** | **0.186 JB** | **0.17 JB** | 5.28 U | **1.99 JB** |
| 2,3,7,8-Tetrachlorodibenzofuran | NC | NC | NC | **0.482 JB** | **0.0551 JB** | **0.105 JB** | **0.061 JB** | **1.2 B** |
| 2,3,7,8-Tetrachlorodibenzo-P-Dioxin | NC | NC | NC | **0.0935 JB** | 1.03 U | **0.0469 JB** | **0.0495 JB** | **0.118 JB** |
| Octachlorodibenzofuran | NC | NC | NC | **7.29 JB** | **0.961 JB** | **0.458 JB** | **0.34 JB** | **3.9 JB** |
| Octachlorodibenzo-P-Dioxin | NC | NC | NC | **1750 B** | **177 B** | **1490 B** | **25 B** | **4380 BE** |
| Toxic Equivalent (TEQ) | <4.5 | 4.5 - 50 | >50 | 3.579 | 1.607 | 1.889 | 2.831 | 8.038 |
| **General Chemistry** | | | | | | | | |
| Percent Solids (percent) | | | | 6.4 | 4.8 | 6.6 | 9.4 | 7.2 |

**Notes:**
- All are reported in parts per trillion (ng\kg) (dry weight) unless otherwise indicated
- ft bgs = feet below ground surface
- B = Dioxin in Method Blank
- E = Exceeded calibration range
- J = Estimated concentration between Estimated Detection Limit and Minimum Reporting Level
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- TEQ calculation as per the NATO - 1988 method.
- **Bold values indicate positive detections**