

MONTHLY REPORT FOR NOVEMBER 2023

SITE NAME: 100 East 149th Street Site

SITE ADDRESS: 100 East 149th Street, Bronx, NY 11218

BCP NUMBER: C203159

REPORTING PERIOD: November 2023

REMEDIAL ACTIONS DURING THE REPORTING PERIOD

- Cleared drilling locations on Site.
- Installed soil probes 23SP1, 23SP2, 23SP3, 23SP4, 23SP5, 23SP6, 23SP7, 23SP8, 23SP9, 23SP10 and collected soil samples for analysis from specified intervals.
- Installed monitoring wells 23MW1, 23MW2, 23MW3, 23MW4, 23MW5, 23MW6, 23MW7, 23MW8, 23MW9, 23MW10 and collected groundwater samples for analysis.
- Installed soil vapor probes 23SV1, 23SV2, 23SV3, 23SV4, 23SV5 and 23SV6 and collected soil vapor samples for analysis.
- Collected one outdoor air sample (OA-1) for analysis.
- Multiple refusals were encountered throughout the southern-central portion of the Site during soil probe installations at approximately 5 to 10-feet below grade resulting in moving the location of soil probe/monitoring well 23SP5/23MW5 towards the western boundary of the Site and moving the location of soil probe/monitoring well 23SP6/23MW6 towards the eastern boundary of the Site. Touchstone contacted the NYSDEC Project Manager to request the use of a small excavator at the Site to investigate the cause of the refusals.
- Submitted a Site Investigation Letter to the NYSDEC on November 15, 2023 as well as updated Site Investigation Letters per NYSDEC requests on November 17, 2023, and November 21, 2023. The Site Investigation proposed the performance of ground intrusive activity to investigate the cause of refusal in the southern portion of the Site which additionally coordinated with an anomaly identified during a Ground Penetrating Radar (GPR) survey performed during Touchstone's August 2020 Subsurface Investigation. The Site Investigation proposed excavating three 5' x 5' x 5' test pits in the southern-central portion of the Site. The NYSDEC Project Manager responded via email on November 22, 2023, indicating that the request to complete three test pits at the 100 E 149th Street Site (C203159) was approved according to the provided scope of work and RIWP. Touchstone scheduled the Site Investigation work to be completed on December 1, 2023.

ANTICIPATED ACTIVITIES FOR THE NEXT REPORTING PERIOD

1. Performance of Site Investigation Work;
2. Submission of Site Investigation Report to the NYSDEC Project Manager;
3. Collection of analytical laboratory reports.

SAMPLING RESULTS, TESTS AND OTHER DATA

Soil Sample Analytical Results

Samples were collected from soil probe 23SP1 at the following depths: 0-2 feet, 10-12.5 feet, 12.5-15 feet, and 22.5-25 feet. No VOCs, SVOCs, Pesticide, Metal, PCB, PFAS, or 1,4-Dioxane compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 22.5 to 25-foot sample from 23SP1. No Pesticide, 1,4-Dioxane, or PCB compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP1. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5 ft sample collected from 23SP1. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 10-12.5 ft sample collected from 23SP1. No PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 12.5-15 ft or 22.5-25 ft samples collected from 23SP1. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP1:

- 0-2.5 ft: The SVOC Chrysene (1.01 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The SVOCs Benzo(a)anthracene (2.01 mg/kg) and Indeno(1,2,3-cd)pyrene (1.97 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOC Benzo(b)fluoranthene (2.01 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards. The PFAS compound PFOS (2.64 mg/kg) was detected at a concentration exceeding its UUSCO.
- 10-12.5 ft: The VOC Acetone (0.059 mg/kg), was detected at a concentration exceeding its UUSCO and RRSCO. The metal Copper (26.40 mg/kg) was detected at a concentration exceeding its UUSCO. The metal Selenium (4.20 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The metal Lead (420 mg/kg) was detected at a concentration exceeding its UUSCO and RRSCO standards. The metal Mercury (1.87 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 12.5-15 ft: The VOCs 1,2,4-Trimethylbenzene (420 mg/kg), 1,3,5-Trimethylbenzene (120 mg/kg), Ethyl benzene (98 mg/kg), and Xylenes, Total (200 mg/kg) were detected at concentrations exceeding their respective UUSCOs, RRSCOs, and PGSCOs. The VOCs Benzene (0.98 mg/kg), n-Butylbenzene (22 mg/kg), n-Propylbenzene (53 mg/kg), and Toluene (10 mg/kg) were detected at concentrations exceeding their respective UUSCOs and PGSCOs. The SVOC Benzo(k)fluoranthene (1.05 mg/kg) was detected at a concentration exceeding its UUSCO. The SVOC Chrysene (1.44 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO. The SVOCs Benzo(a)pyrene (2.37 mg/kg), Dibenzo(a,h)anthracene (0.565 mg/kg), and Indeno(1,2,3-cd)pyrene (2.09 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOCs Benzo(a)anthracene (1.40 mg/kg) and Benzo(b)fluoranthene (2.77 mg/kg) were detected at concentrations exceeding their respective UUSCO, RRSCO, and PGSCO standards. The metals Copper (94.20 mg/kg) and Lead (323 mg/kg) were detected at concentrations exceeding their respective UUSCOs. The metal Selenium (7.84 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The metals Arsenic (38.40 mg/kg) and Mercury (1.87 mg/kg) were detected at concentrations exceeding their respective UUSCO, RRSCO, and PGSCO standards.

Samples were collected from soil probe 23SP2 at the following depths: 0-2.5 feet, 15-17.5 feet, 18-20 feet, and 27.5-30 feet. No VOCs, SVOCs, Pesticide, Metal, PCB, PFAS, or 1,4-Dioxane compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 27.5 to 30-foot sample from 23SP2. No Pesticide, 1,4-Dioxane, PFAS or PCB compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP2. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5 ft or 27.5-30 ft samples collected from 23SP2. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 15-17.5 ft, 18-20 ft, or 27.5-30 ft samples collected from 23SP2. No metal compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 27.5-30 ft sample collected from 23SP2. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP2:

- 0-2.5 ft: The SVOC Indeno(1,2,3-cd)pyrene (0.684 mg/kg) was detected at a concentration exceeding its UUSCO and RRSCO standards. The SVOC Benzo(a)anthracene (1.09 mg/kg) was detected at a concentration exceeding

its UUSCO, RRSCO, and PGSCO standards. The metals Arsenic (13.80 mg/kg), Copper (88.70 mg/kg), Lead (251 mg/kg), and Mercury (0.583 mg/kg) were detected at concentrations exceeding their respective UUSCOs. The metal Selenium (7.84 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.

- 15-17.5 ft: The VOC, Xylenes, Total (0.42 mg/kg) was detected at a concentration exceeding its UUSCO. The VOCs 1,3,5-Trimethylbenzene (45 mg/kg), Acetone (0.066 mg/kg), and Ethyl benzene (34 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The VOC 1,2,4-Trimethylbenzene (88 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards. The metals Lead (143 mg/kg) and Mercury (0.537 mg/kg) were detected at concentrations exceeding their respective UUSCO standards.
- 18-20 ft: The VOCs Benzene (2 mg/kg), Ethyl benzene (4.90 mg/kg), n-Propyl benzene (10 mg/kg), Toluene (1.10 mg/kg), and Xylenes, Total (4.30 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The metal Copper (130 mg/kg) was detected at a concentration exceeding its UUSCO. The metals Selenium (6.50 mg/kg) and Silver (30.50 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The metals Arsenic (24 mg/kg), Lead (539 mg/kg), and Mercury (26.50 mg/kg) were detected at concentrations exceeding their respective UUSCO, RRSCO, and PGSCO standards.

Samples were collected from soil probe 23SP3 at the following depths: 0-2.5 feet, 8-12 feet, 12-14 feet, and 25-30 feet. No VOCs or PCB compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples from 23SP3. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5 ft, 12-14 ft, or 25-30 ft samples collected from 23SP3. No Pesticides were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 8-12 ft, 12-14 ft, or 25-30 ft samples collected from 23SP3. No metals were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 25-30 ft sample collected from 23SP3. No PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 12-14 ft or 25-30 ft samples collected from 23SP3. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP3:

- 0-2.5 ft: The Pesticide 4,4'-DDT (0.00494 mg/kg) was detected at a concentration exceeding its UUSCO. The metals Copper (52.40 mg/kg), Lead (73.40 mg/kg), Mercury (0.586 mg/kg), and Chromium Hexavalent (2.360 mg/kg) were detected at concentrations exceeding their respective UUSCOs. The metal Barium (478 mg/kg) was detected at a concentration exceeding its UUSCO and RRSCO standards. The PFAS compound PFOS (2.380 mg/kg) was detected at a concentration exceeding its UUSCO.
- 8-12 ft: The SVOC, Indeno(1,2,3-cd)pyrene (0.764 mg/kg) was detected at a concentration exceeding its UUSCO and RRSCO standards. The metals Copper (53.90 mg/kg) and Lead (186 mg/kg) were detected at concentrations exceeding their respective UUSCO standards. The metal Mercury (1.110 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards. The PFAS compound PFOS (1.380 mg/kg) was detected at a concentration exceeding its UUSCO.
- 15-17.5 ft: The metal Lead (125 mg/kg) was detected at a concentration exceeding its UUSCO. The metal Mercury (0.782 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.

Samples were collected from soil probe 23SP4 at the following depths: 0-5 feet, 12-14 feet, 14-16 feet, and 27.5-30 feet. No Pesticide, 1,4-dioxane, PCB, or PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP4. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-5 foot or 27.5 to 30-foot samples from 23SP4. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 14-16 foot or 27.5 to 30-foot samples from 23SP4. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP4:

- 0-2.5 ft: The SVOCs Benzo(k)fluoranthene (2.11 mg/kg) and Chrysene (2.35 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The SVOCs Benzo(a)pyrene (2.910

mg/kg), Dibenzo(a,h)anthracene (0.596 mg/kg), and Indeno(1,2,3-cd)pyrene (0.210 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOCs Benzo(a)anthracene (2.92 mg/kg) and Benzo(b)fluoranthene (2.81 mg/kg) were detected at concentrations exceeding their respective UUSCO, RRSCO, and PGSCO standards. The metals Lead (107 mg/kg) and Mercury (0.237 mg/kg) were detected at concentrations exceeding their respective UUSCOs.

- 12-14 ft: The VOCs 1,3,5-Trimethylbenzene (22 mg/kg), Ethyl benzene (25 mg/kg), n-Propyl benzene (11 mg/kg), and Xylenes, Total (38 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The VOC 1,2,4-Trimethylbenzene (64 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards. The SVOC Benzo(k)fluoranthene (1.03 mg/kg) was detected at a concentration exceeding its UUSCO. The SVOC Chrysene (1.17 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The SVOCs Benzo(a)pyrene (1.62 mg/kg), Benzo(b)fluoranthene (1.21 mg/kg), and Indeno(1,2,3-cd)pyrene (1.26 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOC Benzo(a)anthracene (1.19 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards. The metals Lead (117 mg/kg) and Mercury (0.561 mg/kg) were detected at concentrations exceeding their respective UUSCO standards. The metal Selenium (7.15 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.
- 14-16 ft: The VOCs 1,2,4-Trimethylbenzene (16 mg/kg), Benzene (1.10 mg/kg), Ethyl benzene (5 mg/kg), n-Propyl benzene (5 mg/kg), and Xylenes, Total (9.40 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The metal Lead (358 mg/kg) was detected at a concentration exceeding its UUSCO. The metal Mercury (3.07 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 27.5-30 ft: The metal Chromium Hexavalent (1.04 mg/kg) was detected at a concentration exceeding its UUSCO.

Samples were collected from soil probe 23SP5 at the following depths: 0-2.5 feet, 12.5-15 feet, 15-17.5 feet, and 25-27.5 feet. No Pesticide, 1,4-dioxane, or PCB compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP5. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5 foot or 25-27.5-foot samples from 23SP5. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 12.5-15-foot, 15-17.5 foot, and 25-27.5-foot samples from 23SP5. No PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 12.5-15-foot, 15-17.5 foot, and 25-27.5-foot samples from 23SP5. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP5:

- 0-2.5 ft: The SVOC Indeno(1,2,3-cd)pyrene (0.820 mg/kg) was detected at a concentration exceeding its UUSCO and RRSCO standards. The metals Copper (51.20 mg/kg), Lead (309 mg/kg), and Mercury (0.227 mg/kg) were detected at concentrations exceeding their respective UUSCOs. The PFAS compound PFOS (0.911 mg/kg) was detected at a concentration exceeding its UUSCO.
- 12.5-15 ft: The VOCs Ethyl benzene (8.20 mg/kg), n-Butyl benzene (22 mg/kg), n-Propyl benzene (43 mg/kg), Toluene (2 mg/kg), and Xylenes, Total (10 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The metal Lead (350 mg/kg) was detected at a concentration exceeding its UUSCO. The metal Mercury (63.60 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 15-17.5 ft: The VOCs Benzene (2.40 mg/kg), Ethyl benzene (2 mg/kg), n-Propyl benzene (9.50 mg/kg), and Xylenes, Total (3 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The metals Lead (226 mg/kg), Nickel (39.10 mg/kg), and Chromium Hexavalent (44.20 mg/kg) were detected at concentrations exceeding their respective UUSCO standards. The metal Mercury (2.16 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 25-27.5 ft: The metals Chromium Hexavalent (1.76 mg/kg) and Chromium Trivalent (32.30 mg/kg) were detected at concentrations exceeding their respective UUSCO standards.

Samples were collected from soil probe 23SP6 at the following depths: 0-2.5 feet, 12.5-15 feet, 15-17.5 feet, and 22.5-25 feet. No Pesticide, 1,4-dioxane, PCB, or PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP6. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5 foot or 22.5-25-foot samples from 23SP6. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 12.5-15-foot, 15-17.5 foot, and 22.5-25-foot samples from 23SP6. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP6:

- 0-2.5 ft: The SVOC Indeno(1,2,3-cd)pyrene (0.610 mg/kg) was detected at a concentration exceeding its UUSCO and RRSCO standards. The metals Copper (57.70 mg/kg), Lead (318 mg/kg), Mercury (0.281 mg/kg), and Chromium Hexavalent (2.69 mg/kg) were detected at concentrations exceeding their respective UUSCOs.
- 12.5-15 ft: The VOC, n-Propyl benzene (6 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The metal Lead (335 mg/kg) was detected at a concentration exceeding its UUSCO. The metal Mercury (2.13 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 15-17.5 ft: The VOCs Benzene (2.60 mg/kg), n-Propyl benzene (15 mg/kg), Toluene (2.10 mg/kg), and Xylenes, Total (2.80 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The metal Lead (256 mg/kg) was detected at a concentration exceeding its UUSCO. The metal Mercury (1.37 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 22.5-25 ft: The metal Selenium (5.89 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.

Samples were collected from soil probe 23SP7 at the following depths: 0-2.5 feet, 12-14 feet, 14-18 feet, and 27.5-30 feet. No Pesticide, 1,4-dioxane, PCB, or PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP7. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5 foot or 27.5-30-foot samples from 23SP7. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 14-18-foot and 27.5-30-foot samples from 23SP7. No metals were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 27.5-30-foot sample from 23SP7. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP7:

- 0-2.5 ft: The SVOC Benzo(k)fluoranthene (0.842 mg/kg) was detected at a concentration exceeding its UUSCO. The SVOC Chrysene (1.72 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The SVOCs Benzo(a)pyrene (2.18 mg/kg) and Indeno(1,2,3-cd)pyrene (1.65 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOCs Benzo(a)anthracene (1.96 mg/kg) and Benzo(b)fluoranthene (2.43 mg/kg) were detected at concentrations exceeding their respective UUSCO, RRSCO, and PGSCO standards. The metals Lead (277 mg/kg) and Mercury (0.287 mg/kg) were detected at concentrations exceeding their respective UUSCOs.
- 12-14 ft: The VOCs, 1,2,4-Trimethylbenzene (12 mg/kg), 1,3,5-Trimethylbenzene (21 mg/kg), Ethyl benzene (5.80 mg/kg), and n-Propyl benzene (11 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The SVOC Chrysene (1.29 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The SVOCs Benzo(a)pyrene (1.65 mg/kg), Benzo(b)fluoranthene (1.66 mg/kg), and Indeno(1,2,3-cd)pyrene (1.08 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOC Benzo(a)anthracene (1.28 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards. The metals Copper (89.30 mg/kg), Lead (83.50 mg/kg), and Chromium Hexavalent (1.31 mg/kg) were detected at concentrations exceeding their respective UUSCOs.
- 14-18 ft: The VOCs 1,3,5-Trimethylbenzene (15 mg/kg), Ethyl benzene (7.80 mg/kg), and n-Propyl benzene (10 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The metals

Copper (252 mg/kg) and Lead (301 mg/kg) were detected at concentrations exceeding their respective UUSCO standards. The metal Selenium (4.96 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The metal Mercury (4.53 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.

Samples were collected from soil probe 23SP8 at the following depths: 0-2.5 feet, 10-12 feet, 14-16 feet, and 25-27.5 feet. No Pesticide, 1,4-dioxane, PCB, or PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP8. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5-foot, 10-12.5 foot, or 25-27.5-foot samples from 23SP8. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 10-12.5-foot and 25-27.5-foot samples from 23SP8. No metals were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5-foot sample from 23SP8. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP8:

- 0-2.5 ft: The SVOC Chrysene (0.842 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The SVOCs Benzo(b)fluoranthene (1.15 mg/kg) and Indeno(1,2,3-cd)pyrene (0.592 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOC Benzo(a)anthracene (1.18 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 10-12.5 ft: The metals Copper (52.5 mg/kg), Lead (170 mg/kg), and Mercury (0.534 mg/kg) were detected at concentrations exceeding their respective UUSCOs. The metal Selenium (5.21 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.
- 14-16 ft: The VOCs Benzene (0.33 mg/kg), Ethyl benzene (3.60 mg/kg), n-Propyl benzene (16 mg/kg), and Xylenes, Total (4.20 mg/kg) were detected at concentrations exceeding their respective UUSCO and PGSCO standards. The SVOC Benzo(k)fluoranthene (0.803 mg/kg) was detected at a concentration exceeding its UUSCO. The SVOC Chrysene (1.29 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The SVOCs Benzo(a)pyrene (2.58 mg/kg), Dibenzo(a,h)anthracene (0.449 mg/kg), and Indeno(1,2,3-cd)pyrene (2.51 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOCs Benzo(a)anthracene (1.20 mg/kg) and Benzo(b)fluoranthene (2.60 mg/kg) were detected at concentrations exceeding their respective UUSCO, RRSCO, and PGSCO standards. The metals Copper (87.10 mg/kg) and Lead (207 mg/kg) were detected at concentrations exceeding their respective UUSCO standards. The metal Selenium (6.80 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCOs standards. The metals Arsenic (19.60 mg/kg) and Mercury (1.26 mg/kg) were detected at concentrations exceeding their respective UUSCO, RRSCO, and PGSCO standards.
- 25-27.5 ft: The metal Selenium (5.58 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.

Samples were collected from soil probe 23SP9 at the following depths: 0-2.5 feet, 10-12.5 feet, 12.5-15 feet, and 25-27.5 feet. No Pesticide, 1,4-dioxane, PCB, or PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP9. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5-foot, 10-12.5 foot, or 25-27.5-foot samples from 23SP9. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 10-12.5-foot, 12.5-15-foot, and 25-27.5-foot samples from 23SP9. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP9:

- 0-2.5 ft: The SVOC Chrysene (1.65 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The SVOCs Benzo(a)anthracene (1.25 mg/kg), Benzo(b)fluoranthene (1.55 mg/kg), and Indeno(1,2,3-cd)pyrene (0.851 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOC Benzo(a)anthracene (1.71 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards. The metals Copper (51.5 mg/kg), Lead (143 mg/kg), and Mercury (0.277 mg/kg) were detected at concentrations exceeding their respective UUSCOs.

- 10-12.5 ft: The metal Selenium (6.85 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.
- 12.5-15 ft: The VOC n-Propyl benzene (7 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The metals Arsenic (15.90 mg/kg) and Copper (48.70 mg/kg) were detected at concentrations exceeding their respective UUSCO standards. The metal Selenium (6.65 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The metal Lead (432 mg/kg) was detected at a concentration exceeding its UUSCO and RRSCO standards. The metal Mercury (12.40 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 25-27.5 ft: The metal Selenium (4.24 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.

Samples were collected from soil probe 23SP10 at the following depths: 0-2.5 feet, 12.5-15 feet, 18-22 feet, and 25-27.5 feet. No Pesticide, 1,4-dioxane, PCB, or PFAS compounds were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in any samples collected from 23SP10. No VOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 0-2.5 foot or 25-27.5-foot samples from 23SP10. No SVOCs were detected at concentrations exceeding their respective UUSCOs, RRSCOs, or PGSCOs in the 10-12.5-foot and 25-27.5-foot samples from 23SP10. The following compounds were detected at concentrations exceeding their respective standards in the samples collected from 23SP10:

- 0-2.5 ft: The SVOCs Benzo(b)fluoranthene (1.06 mg/kg) and Indeno(1,2,3-cd)pyrene (0.649 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The metals Copper (58.40 mg/kg), Lead (78.10 mg/kg), Mercury (0.249 mg/kg), and Chromium Hexavalent (1.26 mg/kg) were detected at concentrations exceeding their respective UUSCOs.
- 12.5-15 ft: The VOC Acetone (0.31 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards. The metal Selenium (4.82 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.
- 18-20 ft: The VOC Xylenes, Total (0.72 mg/kg) was detected at a concentration exceeding its UUSCO. The SVOCs Benzo(a)pyrene (11 mg/kg), Dibenzo(a,h)anthracene (1.28 mg/kg), and Indeno(1,2,3-cd)pyrene (7.58 mg/kg) were detected at concentrations exceeding their respective UUSCO and RRSCO standards. The SVOCs Benzo(a)anthracene (10.30 mg/kg), Benzo(b)fluoranthene (12.40 mg/kg), Benzo(k)fluoranthene (4.63 mg/kg), and Chrysene (10.30 mg/kg) were detected at concentrations exceeding their respective UUSCO, RRSCO, and PGSCO standards. The metal Lead (269 mg/kg) was detected at a concentration exceeding its UUSCO standard. The metal Mercury (1.21 mg/kg) was detected at a concentration exceeding its UUSCO, RRSCO, and PGSCO standards.
- 25-27.5 ft: The metal Selenium (4.66 mg/kg) was detected at a concentration exceeding its UUSCO and PGSCO standards.

Groundwater Sample Analytical Results

A total of 10 groundwater samples (designated 23MW1 through 23MW10) were collected. No 1,4-dioxane, PCB, or Pesticide compounds were detected at concentrations exceeding their respective NYSDEC TOGS standards in any of the collected groundwater samples.

The following VOCs were detected at concentrations exceeding their respective NYSDEC TOGS Standards:

- The VOCs 1,2,4-Trimethylbenzene (max of 880 ug/L in 23MW2) and 1,3,5-Trimethylbenzene (max of 260 ug/L in 23MW2) were detected at concentrations exceeding their respective NYSDEC TOGS standards in groundwater samples 23MW1, 23MW2, 23MW3, 23MW4, 23MW5, 23MW7, 23MW9, and 23MW10.

- The VOCs Isopropyl benzene (max of 86 ug/L in 23MW2) and n-Propyl benzene (max of 230 ug/L in 23MW2) were detected at concentrations exceeding their respective NYSDEC TOGS standards in groundwater samples 23MW1, 23MW2, 23MW3, 23MW4, 23MW5, 23MW6, 23MW7, 23MW9, and 23MW10.
- The VOC Benzene (max of 760 ug/L in 23MW2) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW1, 23MW2, 23MW3, 23MW4, 23MW5, and 23MW6.
- The VOC Ethyl benzene (max of 1,200 ug/L in 23MW2) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW1, 23MW2, 23MW3, 23MW4, 23MW5, 23MW7, 23MW9, and 23MW10.
- The VOC n-Butyl benzene (max of 46 ug/L in 23MW2) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW2, 23MW5, 23MW6, and 23MW9.
- The VOC o-Xylene (max of 40 ug/L in 23MW2) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW1, 23MW2, 23MW4, 23MW5, and 23MW10.
- The VOC sec-Butylbenzene (max of 16 ug/L in 23MW2) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW2, 23MW5, and 23MW6.
- The VOC Toluene (max of 150 ug/L in 23MW2) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW1, 23MW2, 23MW4, and 23MW5.
- The VOC Xylenes, Total (max of 380 ug/L in 23MW2) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW1, 23MW2, 23MW3, 23MW4, 23MW5, 23MW6, 23MW7, and 23MW10.
- The VOC p-Isopropyl toluene (7.80 ug/L) was detected in 23MW5 at a concentration exceeding its NYSDEC TOGS standard.

The SVOC Naphthalene (max of 75.30 ug/L in 23MW5) was detected in groundwater samples 23MW2 and 23MW5 at concentrations exceeding its NYSDEC TOGS standard. The SVOC Bis(2-ethylhexyl)phthalate (26.30 ug/L) was detected in 23MW4 at a concentration exceeding its NYSDEC TOGS standard. The SVOCs Benzo(a)anthracene (0.08 ug/L) and Chrysene (0.09 ug/L) were detected in 23MW10 at concentrations exceeding their respective NYSDEC TOGS standards.

The dissolved metals Manganese (max of 1,340 ug/L in 23MW6) and Sodium (max of 294,000 ug/L in 23MW10) were detected at concentrations exceeding their respective NYSDEC TOGS standards in all groundwater samples. The dissolved metal Magnesium (max of 47,800 ug/L in 23MW9) was detected at concentrations exceeding their respective NYSDEC TOGS standards in groundwater samples 23MW1, 23MW5, 23MW9, and 23MW10.

The undissolved metals Manganese (max of 1,340 ug/L in 23MW6) and Sodium (max of 227,000 ug/L in 23MW10) were detected at concentrations exceeding their respective NYSDEC TOGS standards in all groundwater samples. The undissolved metal Lead (max of 112 ug/L in 23MW1) was detected at concentrations exceeding their respective NYSDEC TOGS standards in groundwater samples 23MW1, 23MW2, 23MW3, 23MW4, and 23MW7. The undissolved metal Magnesium (max of 50,300 ug/L in 23MW9) was detected at concentrations exceeding their respective NYSDEC TOGS standards in groundwater samples 23MW1, 23MW5, 23MW9, and 23MW10. The undissolved metal Arsenic (40.80 ug/L) was detected in 23MW9 at a concentration exceeding its NYSDEC TOGS standard.

The metal Mercury (max of 1.50 ug/L in 23MW2) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW1, 23MW2, and 23MW7.

The metal Cyanide, total (max of 2,200 ug/L in 23MW8) was detected at concentrations exceeding its NYSDEC TOGS standard in groundwater samples 23MW2, 23MW3, 23MW4, 23MW8, 23MW9, and 23MW10.

The soil vapor and outdoor air sample results are currently pending and will be included in the December 2023 Monthly Report.

ESTIMATED PERCENTAGE OF PROJECT COMPLETION

95%

DELAYS ENCOUNTERED

Refusal encountered in the southern-central portion of the Site.
Groundwater samples will be collected for PFAS analysis.

EFFORTS MADE TO MITIGATE DELAYS

Discussed refusal with the NYSDEC and submitted a Site Investigation Letter with a proposed scope of work.
Touchstone is working with the lab to obtain PFAS sampling materials.

CITIZEN PARTICIPATION ACTIVITIES FOR REPORTING PERIOD

None

ANTICIPATED CITIZEN PARTICIPATION ACTIVITIES FOR NEXT REPORTING PERIOD

None

SCHEDULE

Schedule Task	Timeframe	Estimated Date
Mobilize equipment to the Site	Within 3 weeks of RIWP approval	November 2023 (Completed)
Complete fieldwork	Within 9 weeks of mobilization date	November 2023 (In Progress)
Complete Site Investigation	Upon NYSDEC approval of Site Investigation Letter	December 1, 2023
Submission of Site Investigation Letter Report	Upon completion of the Site Investigation	January 2024
Receive all Laboratory Reports	Within 2 weeks of completion of fieldwork	December 2023 (Ongoing)
Receive all Laboratory Deliverable	Within 4 weeks of completion of fieldwork	December 2023 (Ongoing)
Receive DUSR	Within 8 weeks of completion of fieldwork	February 2024
Submit Remedial Investigation Report	Within 3 weeks of receipt of DUSR	March 2024
Distribute Fact Sheet on RI Results and Comment Period of RAWP (if submitted with RIR)	Within 16 weeks of completion of field work – Subject to DEC / DOH Approval	June 2024