**Niagara LaSalle Optima Steel Site**
**Antimony, Arsenic, and Lead Validated Results**
**Residential Properties**

| Analyte | | Antimony | Arsenic | Lead |
|---|---|---|---|---|
| Residential Soil RML, Cancer Risk 10^-4, HQ=3 | | 94 | 68 | 400 |
| Sample ID | Depth | | | |
| 2001-SB-FY-0006-081518 | 00-06 | 21 | 23 | 510 |
| 2001-SB-FY-0612-081518 | 06-12 | 12 | 11 | 190 |
| 2001-SB-SY-0006-081518 | 00-06 | 25 | 9.7 | 450 |
| 2001-SB-SY-0612-081518 | 06-12 | 13 | 8.3 | 180 |
| 2001-SB-GD-0006-081518 | 00-06 | 16 | 8.6 | 320 |
| 2007-SB-FY-0006-081518 | 00-06 | 21 | 6.9 | 500 |
| 2007-SB-FY-0612-081518 | 06-12 | 22 J+ | 7 J+ | 450 J |
| 2007-SB-BY-0006-081518 | 00-06 | 5.2 | 5.9 | 150 |
| 2007-SB-BY-0612-081518 | 06-12 | 0.7 | 2.5 | 20 |
| 2007-SB-SY-0006-081518 | 00-06 | 20 | 7.5 | 500 |
| 2007-SB-SY-0612-081518 | 06-12 | 5.6 | 4.2 | 140 |
| 2110-SB-FY-0006-081418 | 00-06 | 16 | 27 | 370 |
| 2110-SB-FY-0612-081418 | 06-12 | 14 | 11 | 250 |
| 2110-SB-BY-0006-081418 | 00-06 | 18 | 7.3 | 440 |
| 2110-SB-BY-0612-081418 | 06-12 | 4.4 | 3.7 | 89 |
| 2140-SB-FY-0006-081518 | 00-06 | 6.7 | 9.8 | 190 |
| 2140-SB-FY-0612-081518 | 06-12 | 4.4 J+ | 7.8 J+ | 84 |
| 2140-SB-BY-0006-081518 | 00-06 | 4.8 | 61 | 150 |
| 2140-SB-BY-0612-081518 | 06-12 | 3.1 | 25 | 88 |
| 2190-SB-FY-0006-081418 | 00-06 | 45 | 11 | 830 |
| 2190-SB-FY-0612-081418 | 06-12 | 33 | 9.7 | 520 |
| 2190-SB-FY-0612-081418-D | 06-12 | 30 | 9.2 | 480 |
| 2190-SB-GD-0006-081418 | 00-06 | 46 | 9 | 1200 |
| 2325-SB-FY-0006-081418 | 00-06 | 6.3 | 8.2 | 150 |
| 2325-SB-FY-0612-081418 | 06-12 | 3 | 4.7 | 60 |
| 2325-SB-FY-0612-081418-D | 06-12 | 2.5 | 4.2 | 54 |
| 2325-SB-BY-0006-081418 | 00-06 | 8.3 J+ | 10 J+ | 220 J |
| 2325-SB-BY-0612-081418 | 06-12 | 3.4 | 5.2 | 110 |
| 2422-SB-FY-0006-081418 | 00-06 | 7.4 | 7.7 | 210 |
| 2422-SB-FY-0006-081418-D | 00-06 | 6.8 | 8.2 | 190 |
| 2422-SB-FY-0612-081418 | 06-12 | 3.8 | 5.2 | 100 |
| 2422-SB-BY-0006-081418 | 00-06 | 5.3 | 37 | 170 |
| 2422-SB-BY-0612-081418 | 06-12 | 3.7 | 32 | 100 |
| 2471-SB-FY-0006-081418 | 00-06 | 21 | 11 | 390 |
| 2471-SB-FY-0612-081418 | 06-12 | 8.9 | 8.8 | 170 |
| 2471-SB-BY-0006-081418 | 00-06 | 3 | 4.6 | 86 |
| 2471-SB-BY-0612-081418* | 06-12 | 1.3 J | 3.6 J | 31 |
| 2483-SB-FY-0006-081418 | 00-06 | 4.7 | 87 | 180 |
| 2483-SB-FY-0612-081418 | 06-12 | 2.7 | 70 | 68 |
| 2483-SB-BY-0006-081418 | 00-06 | 3.5 | 30 | 150 |
| 2483-SB-BY-0612-081418 | 06-12 | 1.1 | 5.9 | 25 |
| 2510-SB-FY-0006-081418 | 00-06 | 5.4 | 65 | 140 |
| 2510-SB-FY-0006-081418-D | 00-06 | 3.8 | 57 | 120 |
| 2510-SB-FY-0612-081418 | 06-12 | 2.9 | 19 | 62 |
| 2510-SB-BY-0006-081418* | 00-06 | 6.5 | 68 | 220 |
| 2510-SB-BY-0612-081418 | 06-12 | 3.4 J+ | 38 | 80 |
| 2518-SB-FY-0006-081418 | 00-06 | 5 | 5.7 | 310 |
| 2518-SB-FY-0612-081418 | 06-12 | 4 | 7.1 | 250 |
| 2518-SB-BY-0006-081418 | 00-06 | 3.4 | 5.1 | 180 |
| 2518-SB-BY-0612-081418 | 06-12 | 2.3 | 4.4 | 120 |
| 2518-SB-GD-0006-081418 | 00-06 | 5.6 | 6.7 | 450 |
| 2540-SB-FY-0006-081518 | 00-06 | 3.6 | 5.9 | 120 |
| 2540-SB-FY-0612-081518 | 06-12 | 2.6 | 4.2 | 55 |
| 2540-SB-BY-0006-081518 | 00-06 | 6.1 | 7.6 | 200 |
| 2540-SB-BY-0006-081518-D | 00-06 | 5.9 | 6.2 | 270 |
| 2540-SB-BY-0612-081518 | 06-12 | 2.1 | 4.7 | 78 |
| 2546-SB-FY-0006-081418 | 00-06 | 14 | 9.6 | 400 |
| 2546-SB-FY-0612-081418 | 06-12 | 10 | 9.3 | 280 |
| 2546-SB-BY-0006-081418 | 00-06 | 14 | 24 | 650 |
| 2546-SB-BY-0612-081418 | 06-12 | 6.6 | 11 | 270 |
| 2546-SB-GD-0006-081418* | 00-06 | 7.3 | 8.7 | 260 |
| 2625-SB-FY-0006-081518 | 00-06 | 6.3 | 5.7 | 180 |

**Niagara LaSalle Optima Steel Site**
**Antimony, Arsenic, and Lead Validated Results**
**Residential Properties**

| Analyte | | Antimony | Arsenic | Lead |
|---|---|---|---|---|
| Residential Soil RML, Cancer Risk 10^-4, HQ=3 | | 94 | 68 | 400 |
| Sample ID | Depth | | | |
| 2625-SB-FY-0612-081518 | 06-12 | 4 | 5.2 | 93 |
| 2625-SB-FY-0612-081518-D | 06-12 | 4.5 | 5.1 | 110 J |
| 2625-SB-BY-0006-081518 | 00-06 | 4.4 | 6.1 | 160 |
| 2625-SB-BY-0612-081518 | 06-12 | 1.9 J | 3.9 | 41 |
| 2651-SB-FY-0006-081418 | 00-06 | 7.1 | 5.4 | 200 |
| 2651-SB-FY-0612-081418 | 06-12 | 2.4 | 3.4 | 47 |
| 2651-SB-BY-0006-081418 | 00-06 | 4.1 | 7.4 | 160 |
| 2651-SB-BY-0612-081418 | 06-12 | 5.8 | 8.9 | 170 |
| 2812-SB-FY-0006-081418 | 00-06 | 8.6 | 8 | 440 |
| 2812-SB-FY-0612-081418 | 06-12 | 3.8 J | 6.3 | 250 |
| 2857-SB-FY-0006-081418 | 00-06 | 15 | 11 | 440 |
| 2857-SB-FY-0612-081418 | 06-12 | 6.8 | 9.3 | 140 |
| 2857-SB-BY-0006-081418 | 00-06 | 13 | 8.7 | 510 |
| 2857-SB-BY-0612-081418 | 06-12 | 8 | 9.5 | 420 |
| 2857-SB-BY-0612-081418-D | 06-12 | 7 | 9.8 | 420 |
| 2857-SB-GD-0006-081418 | 00-06 | 15 | 9.1 | 430 |
| 2857-SB-GD-0006-081418-D | 00-06 | 15 | 8.1 | 480 |
| 2892-SB-FY-0006-081418 | 00-06 | 3.4 | 4.1 | 130 |
| 2892-SB-FY-0612-081418 | 06-12 | 1.6 | 4.1 | 77 |
| 2892-SB-BY-0006-081418 | 00-06 | 2.4 | 4.5 | 230 |
| 2892-SB-BY-0612-081418 | 06-12 | 1.5 | 3.6 | 130 |
| 2916-SB-FY-0006-081418 | 00-06 | 58 | 9.9 | 940 |
| 2916-SB-FY-0612-081418 | 06-12 | 8.4 | 3 | 67 |
| 2916-SB-BY-0006-081418 | 00-06 | 49 | 9.2 J+ | 1000 |
| 2916-SB-BY-0006-081418-D | 00-06 | 53 | 9.2 J+ | 1000 |
| 2916-SB-BY-0612-081418 | 06-12 | 20 | 6.1 | 380 |
| 2985-SB-FY-0006-081418 | 00-06 | 48 | 13 | 970 |
| 2985-SB-FY-0612-081418 | 06-12 | 32 J+ | 9.6 J+ | 460 |
| 2985-SB-BY-0006-081418 | 00-06 | 44 | 9.8 | 890 |
| 2985-SB-BY-0612-081418 | 06-12 | 24 | 8.8 | 420 |
| 2992-SB-FY-0006-081418 | 00-06 | 5.5 | 8.2 | 160 |
| 2992-SB-FY-0612-081418 | 06-12 | 2.9 | 5.3 | 68 |
| 2992-SB-BY-0006-081418 | 00-06 | 4.4 | 10 | 140 |
| 2992-SB-BY-0612-081418 | 06-12 | 3.3 J | 8.2 | 80 |
| 2997-SB-FY-0006-081518 | 00-06 | 3.2 | 6.5 | 93 |
| 2997-SB-FY-0612-081518 | 06-12 | 1.5 | 3.7 | 36 |
| 1018-SB-BY-0006-090817 | 00-06 | 2.8 | 7.9 | 120 |
| 1018-SB-BY-0612-090817 | 06-12 | 3.5 | 10 | 130 |
| 1018-SB-FY-0006-090817 | 00-06 | 6.3 | 34 | 130 |
| 1018-SB-FY-0612-090817 | 06-12 | 2.3 | 5.9 | 40 |
| 1054-SB-BY-0006-090817 | 00-06 | 12 | 7.7 | 350 |
| 1054-SB-BY-0612-090817 | 06-12 | 4.3 | 4.8 | 140 |
| 1054-SB-FY-0006-090817 | 00-06 | 15 | 7.3 | 330 |
| 1054-SB-FY-0612-090817 | 06-12 | 10 | 6.4 | 220 |
| 1054-SB-SY-0006-090817 | 00-06 | 14 | 6.4 | 290 |
| 1054-SB-SY-0006-090817-DUP | 00-06 | 14 | 6.2 | 270 |
| 1054-SB-SY-0612-090817 | 06-12 | 5.9 | 3.7 | 81 |
| 1095-SB-BY-0006-090817 | 00-06 | 23 | 160 | 500 |
| 1095-SB-BY-0612-090817 | 06-12 | 10 | 13 | 200 |
| 1095-SB-FY-0006-090817 | 00-06 | 17 | 7 | 270 |
| 1095-SB-FY-0006-090817-DUP | 00-06 | 15 | 7.9 | 210 |
| 1095-SB-FY-0612-090817 | 06-12 | 9.8 | 4.8 | 120 |
| 1106-SB-BY-0006-090817 | 00-06 | 4 | 16 | 150 |
| 1106-SB-BY-0612-090817 | 06-12 | 2.6 | 11 | 54 |
| 1106-SB-BY-0612-090817-DUP | 06-12 | 1.9 | 11 | 49 |
| 1106-SB-FY-0006-090817 | 00-06 | 5.1 | 20 | 93 |
| 1106-SB-FY-0612-090817 | 06-12 | 3.1 | 5.9 | 57 |
| 1115-SB-BY-0006-090817 | 00-06 | 12 | 7.6 | 340 |
| 1115-SB-BY-0612-090817 | 06-12 | 3.8 | 4.5 | 80 |
| 1115-SB-FY-0006-090817 | 00-06 | 16 J+ | 14 | 460 J |
| 1115-SB-FY-0006-090817-DUP | 00-06 | 14 J+ | 9.8 | 1200 J |
| 1115-SB-FY-0612-090817 | 06-12 | 7.5 | 19 | 160 |

**Niagara LaSalle Optima Steel Site**
**Antimony, Arsenic, and Lead Validated Results**
**Residential Properties**

| Analyte | | Antimony | Arsenic | Lead |
|---|---|---|---|---|
| Residential Soil RML, Cancer Risk 10^-4, HQ=3 | | 94 | 68 | 400 |
| Sample ID | Depth | | | |
| 1143-SB-FY-0006-090817 | 00-06 | 11 | 23 | 480 |
| 1143-SB-FY-0612-090817 | 06-12 | 7.2 | 20 | 290 |
| 1143-SB-GD-0006-090817 | 00-06 | 9.4 | 18 | 400 |
| 1183-SB-BY-0006-090817 | 00-06 | 7.6 | 6.5 | 260 |
| 1183-SB-BY-0612-090817 | 06-12 | 6.7 | 4.3 | 180 |
| 1183-SB-FY-0006-090817 | 00-06 | 21 | 7.6 | 460 |
| 1183-SB-FY-0612-090817 | 06-12 | 11 | 5.1 | 190 |
| 1183-SB-GD-0006-090817 | 00-06 | 19 | 9.5 | 590 |
| 1184-SB-BY-0006-090817 | 00-06 | 6.8 | 5.7 | 160 |
| 1184-SB-BY-0006-090817 | 00-06 | 5.8 | 5.2 | 160 |
| 1184-SB-BY-0612-090817 | 06-12 | 2 | 3.3 | 45 |
| 1184-SB-FY-0006-090817 | 00-06 | 2.7 | 3.8 | 70 |
| 1184-SB-FY-0612-090817 | 06-12 | 1.4 J | 3.2 | 33 |
| 1184-SB-GD-0006-090817 | 00-06 | 6.7 | 6.1 | 180 |
| 1192-SB-FY-0006-090817 | 00-06 | 12 | 24 | 250 |
| 1192-SB-FY-0612-090817 | 06-12 | 5.9 | 14 | 100 |
| 1215-SB-BY-0006-090817 | 00-06 | 3.4 | 4.2 | 80 |
| 1215-SB-BY-0612-090817 | 06-12 | 2.8 | 3.5 | 67 |
| 1215-SB-FY-0006-090817 | 00-06 | 5 | 5.2 | 99 |
| 1215-SB-FY-0612-090817 | 06-12 | 3.8 | 5.3 | 110 |
| 1215-SB-FY-0612-090817-2* | 06-12 | 2.4 | 3.8 | 72 |
| 1230-SB-SY-0006-090817 | 00-06 | 18 | 14 | 490 |
| 1230-SB-SY-0612-090817 | 06-12 | 7.6 | 6.7 | 230 |
| 1230-SB-FY-0006-090817 | 00-06 | 14 | 9 | 280 |
| 1230-SB-FY-0612-090817 | 06-12 | 13 | 6.1 | 220 |
| 1230-SB-GD-0006-090817 | 00-06 | 15 | 25 | 430 |
| 1320-SB-BY-0006-090817 | 00-06 | 8.7 | 5 | 220 |
| 1320-SB-BY-0612-090817* | 06-12 | 9.3 | 5.3 | 220 |
| 1320-SB-FY-0006-090817 | 00-06 | 5.9 | 8.2 | 190 |
| 1320-SB-FY-0612-09087 | 06-12 | 11 | 4.4 | 220 |
| 1320-SB-SY-0006-090817 | 00-06 | 7.8 | 8.9 | 220 |
| 1320-SB-SY-0612-090817 | 06-12 | 12 | 11 | 280 |
| 1333-SB-BY-0006-090817 | 00-06 | 2.4 | 7.7 | 140 |
| 1333-SB-BY-0006-090817-DUP | 00-06 | 2.3 | 8.4 | 160 |
| 1333-SB-BY-0612-090817 | 06-12 | 3 | 12 | 190 |
| 1333-SB-FY-0006-090817 | 00-06 | 2.2 | 5.6 | 130 |
| 1333-SB-FY-0612-090817 | 06-12 | 2.5 | 6.3 | 150 |
| 1365-SB-BY-0006-090817 | 00-06 | 29 | 180 | 420 |
| 1365-SB-BY-0612-090817 | 06-12 | 3.4 | 14 | 70 |
| 1365-SB-FY-0006-090817 | 00-06 | 36 | 84 | 710 |
| 1365-SB-FY-0612-090817 | 06-12 | 4.4 | 49 | 64 |
| 1365-SB-GD-0006-090817 | 00-06 | 14 | 160 | 270 |
| 1365-SB-GD-0006-090817-2 | 00-06 | 35 J- | 83 | 680 |
| 1402-SB-SY-0006-090817 | 00-06 | 2.9 | 9.7 | 180 |
| 1402-SB-SY-0612-090817 | 06-12 | 2.2 | 5.7 | 120 |
| 1402-SB-SY-0612-090817-DUP | 06-12 | 2 | 5.2 | 100 |
| 1402-SB-BY-0006-090817 | 00-06 | 4.1 | 6.6 | 370 |
| 1402-SB-BY-0612-090817 | 06-12 | 2 | 5.4 | 100 |
| 1402-SB-FY-0006-090817 | 00-06 | 3 | 5.2 | 130 |
| 1402-SB-FY-0612-090817 | 06-12 | 2.4 | 4.5 | 190 |
| 1540-SB-FY-0006-090817 | 00-06 | 7.4 | 9 J | 240 |
| 1540-SB-FY-0006-090817-DUP | 00-06 | 6.7 J- | 24 J | 230 |
| 1540-SB-FY-0612-090817 | 06-12 | 4.5 | 12 | 300 |
| 1540-SB-BY-0006-090817 | 00-06 | 5.9 J- | 9.9 | 240 |
| 1540-SB-BY-0612-090817 | 06-12 | 4.4 | 9.7 | 150 |
| 1622-SB-FY-0006-090817 | 00-06 | 3.1 | 7.5 | 120 |
| 1622-SB-FY-0006-090817-DUP | 00-06 | 3.1 | 7.3 | 120 |
| 1622-SB-FY-0612-090817 | 06-12 | 2.5 | 10 | 79 |
| 1815-SB-FY-0006-090817 | 00-06 | 26 | 7.4 | 440 |
| 1815-SB-FY-0612-090817 | 06-12 | 6.5 | 6.8 | 94 |
| 1815-SB-BY-0006-090817 | 00-06 | 22 | 7 | 500 |
| 1815-SB-BY-0612-090817 | 06-12 | 10 | 5.6 | 260 |

**Niagara LaSalle Optima Steel Site**
**Antimony, Arsenic, and Lead Validated Results**
**Residential Properties**

| **Analyte** | | **Antimony** | **Arsenic** | **Lead** |
|---|---|---|---|---|
| **Residential Soil RML, Cancer Risk 10^-4, HQ=3** | | 94 | 68 | 400 |
| **Sample ID** | **Depth** | | | |
| 1824-SB-FY-0006-090817 | 00-06 | 4.5 | 16 | 300 |
| 1824-SB-FY-0612-090817 | 06-12 | 4.1 | 12 | 100 |
| 1824-SB-FY-0612-090817-DUP | 06-12 | 3.9 | 11 | 96 |
| 1824-SB-BY-0006-090817 | 00-06 | 5 | 14 | 170 |
| 1824-SB-BY-0612-090817 | 06-12 | 2.6 | 9.6 | 150 |
| 1857-SB-FY-0006-090817 | 00-06 | 8.5 | 12 | 290 |
| 1857-SB-FY-0006-090817-DUP* | 00-06 | 5.6 | 13 | 210 |
| 1857-SB-FY-0612-090817 | 06-12 | 5.6 | 13 | 170 |
| 1885-SB-FY-0006-090817 | 00-06 | 5 | 3.7 | 110 |
| 1885-SB-BY-0006-090817 | 00-06 | 16 | 7.7 | 360 |
| 1885-SB-BY-0612-090817 | 06-12 | 4.5 | 6.1 | 94 |
| 1967-SB-FY-0006-090817 | 00-06 | 5.4 | 5.3 | 150 |
| 1967-SB-FY-0612-090817 | 06-12 | 5.8 | 5.3 | 150 |
| 1967-SB-BY-0006-090817 | 00-06 | 6.7 | 6 | 160 |
| 1967-SB-BY-0006-090817-DUP | 00-06 | 3.7 | 3.8 | 81 |
| 1967-SB-BY-0612-090817 | 06-12 | 2.3 | 3.6 | 73 |
| 1978-SB-BY-0006-090817 | 00-06 | 5.2 | 7.1 | 160 |
| 1978-SB-BY-0612-090817 | 06-12 | 2.4 | 4.8 | 66 |
| 1978-SB-FY-0006-090817 | 00-06 | 6 | 8.6 | 180 |
| 1978-SB-FY-0006-090817-2 | 00-06 | 5.7 | 9.5 | 180 |
| 1978-SB-FY-0612-090817 | 06-12 | 1.8 | 4 | 36 |

Only analytes exceeding EPA RMLs are reported. The results for the full list of analytes is available upon request

Notes:

HQ - Hazard Quotient

NA - Not available

RML - U.S. Environmental Protection Agency Removal Management Level (TR=1E-04, HQ=3)

TR - Carcinogenic Targeted Risk

Depth in inches below ground surface

All result and RML units in mg/kg (milligrams per kilogram); Rinsate result units in µg/L (micrograms per liter)

*2001-SB-SY-0612-081518 was entered on the chain as 2001-SB-BY-0612-081518; 2471-SB-BY-0612-081418 was entered on the chain as 2417-SB-BY-0612-081418; 1320-SB-BY-0612-090617 was entered on the chain as 1370-SB-BY-0612-090617; 2510-SB-BY-0006-081418 was entered on the chain as 2510-SB-BY-0612-081418; 2546-SB-GD-0006-081418 was entered on the chain as 2547-SB-GD-0006-081418; 1824-SB-BY-0006-090817 was entered as on the chain as 1824-SB-FY-0006-090817.

Analyte was detected at a concentration above the residential RML

Analyte was detected at a concentration above the industrial RML

J: Analyte positively identified; associated value is approximate concentration of analyte in the sample.

J+: Analyte positively identified; associated value is approximate concentration of analyte in the sample and may be biased high.

J-: Analyte positively identified; associated value is approximate concentration of analyte in the sample and may be biased low.

U: Analyte not detected at or above associated value (reporting limit)