

**Clean Earth
Sampling Frequency Protocol**

New Castle

| PARAMETERS | TPH | BTEX | TOX | TCLP METALS RCRA | IGNITABILITY | CORROSIVITY (PH) | REACTIVITY SULFIDE AND CYANIDE | PCBs | Total Metals | TCLP VOLATILE ORGANICS | TCLP SEMI VOLATILE ORGANICS | TCLP HERBICIDES | TCLP PESTICIDES | PAHs | MOISTURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|-----------|-----------|------------------|---------------------------|------------------|--------------------------------|------------------------------|--------------|--|-----------------------------|-----------------|-----------------|-------|-----------|-----|---------|-----|--------------|-----|--------------|--------|------|-------|------|-------|---------|-----|------------|------|--------|------|----------|-----|--------|------|----------|-----|----------|------|------|-------|---------------------------|---------------------------|---------------------------|---------------------------|-----------|
| FREQUENCY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UST Virgin Source | Representative composite sample every 1000 tons in accordance with SW846 | X | X | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit | | Unlimited | Unlimited | 500 | Below RCRA Toxicity Level | Negative | >2 - <12.5 | Sulfide <500 Cyanide <250 | <1 | <table border="1"> <tr><td>Arsenic</td><td>53*</td></tr> <tr><td>Barium</td><td>14000</td></tr> <tr><td>Beryllium</td><td>410</td></tr> <tr><td>Cadmium</td><td>100</td></tr> <tr><td>Hex Chromium</td><td>610</td></tr> <tr><td>Tri Chromium</td><td>310000</td></tr> <tr><td>Iron</td><td>61000</td></tr> <tr><td>Lead</td><td>1400*</td></tr> <tr><td>Mercury</td><td>610</td></tr> <tr><td>Molybdenum</td><td>1000</td></tr> <tr><td>Nickel</td><td>4100</td></tr> <tr><td>Selenium</td><td>820</td></tr> <tr><td>Silver</td><td>1000</td></tr> <tr><td>Thallium</td><td>220</td></tr> <tr><td>Vanadium</td><td>1400</td></tr> <tr><td>Zinc</td><td>61000</td></tr> </table> | Arsenic | 53* | Barium | 14000 | Beryllium | 410 | Cadmium | 100 | Hex Chromium | 610 | Tri Chromium | 310000 | Iron | 61000 | Lead | 1400* | Mercury | 610 | Molybdenum | 1000 | Nickel | 4100 | Selenium | 820 | Silver | 1000 | Thallium | 220 | Vanadium | 1400 | Zinc | 61000 | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Unlimited |
| Arsenic | 53* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barium | 14000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beryllium | 410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hex Chromium | 610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tri Chromium | 310000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron | 61000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 1400* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury | 610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Molybdenum | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nickel | 4100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Selenium | 820 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thallium | 220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vanadium | 1400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc | 61000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TPH Contaminated | Representative composite sample every 1000 tons in accordance with SW846 | X | X | X | X | X | X | X | X | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit | | Unlimited | Unlimited | 500 | Below RCRA Toxicity Level | Negative | >2 - <12.5 | Sulfide <500 Cyanide <250 | <1 | <table border="1"> <tr><td>Arsenic</td><td>53*</td></tr> <tr><td>Barium</td><td>14000</td></tr> <tr><td>Beryllium</td><td>410</td></tr> <tr><td>Cadmium</td><td>100</td></tr> <tr><td>Hex Chromium</td><td>610</td></tr> <tr><td>Tri Chromium</td><td>310000</td></tr> <tr><td>Iron</td><td>61000</td></tr> <tr><td>Lead</td><td>1400*</td></tr> <tr><td>Mercury</td><td>610</td></tr> <tr><td>Molybdenum</td><td>1000</td></tr> <tr><td>Nickel</td><td>4100</td></tr> <tr><td>Selenium</td><td>820</td></tr> <tr><td>Silver</td><td>1000</td></tr> <tr><td>Thallium</td><td>220</td></tr> <tr><td>Vanadium</td><td>1400</td></tr> <tr><td>Zinc</td><td>61000</td></tr> </table> | Arsenic | 53* | Barium | 14000 | Beryllium | 410 | Cadmium | 100 | Hex Chromium | 610 | Tri Chromium | 310000 | Iron | 61000 | Lead | 1400* | Mercury | 610 | Molybdenum | 1000 | Nickel | 4100 | Selenium | 820 | Silver | 1000 | Thallium | 220 | Vanadium | 1400 | Zinc | 61000 | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Unlimited |
| Arsenic | 53* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barium | 14000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beryllium | 410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hex Chromium | 610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tri Chromium | 310000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron | 61000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 1400* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury | 610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Molybdenum | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nickel | 4100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Selenium | 820 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thallium | 220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vanadium | 1400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc | 61000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MGP | Representative composite sample every 1000 tons in accordance with SW846 | X | X | X | X | X | X | X | X | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit | | Unlimited | Unlimited | 500 | Below RCRA Toxicity Level | Negative | >2 - <12.5 | Sulfide <500 Cyanide <250 | <1 | <table border="1"> <tr><td>Arsenic</td><td>53*</td></tr> <tr><td>Barium</td><td>14000</td></tr> <tr><td>Beryllium</td><td>410</td></tr> <tr><td>Cadmium</td><td>100</td></tr> <tr><td>Hex Chromium</td><td>610</td></tr> <tr><td>Tri Chromium</td><td>310000</td></tr> <tr><td>Iron</td><td>61000</td></tr> <tr><td>Lead</td><td>1400*</td></tr> <tr><td>Mercury</td><td>610</td></tr> <tr><td>Molybdenum</td><td>1000</td></tr> <tr><td>Nickel</td><td>4100</td></tr> <tr><td>Selenium</td><td>820</td></tr> <tr><td>Silver</td><td>1000</td></tr> <tr><td>Thallium</td><td>220</td></tr> <tr><td>Vanadium</td><td>1400</td></tr> <tr><td>Zinc</td><td>61000</td></tr> </table> | Arsenic | 53* | Barium | 14000 | Beryllium | 410 | Cadmium | 100 | Hex Chromium | 610 | Tri Chromium | 310000 | Iron | 61000 | Lead | 1400* | Mercury | 610 | Molybdenum | 1000 | Nickel | 4100 | Selenium | 820 | Silver | 1000 | Thallium | 220 | Vanadium | 1400 | Zinc | 61000 | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Unlimited |
| Arsenic | 53* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barium | 14000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beryllium | 410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hex Chromium | 610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tri Chromium | 310000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron | 61000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Mercury | 610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Molybdenum | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nickel | 4100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Selenium | 820 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thallium | 220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vanadium | 1400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc | 61000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

** MGP with coke production must run 2 Methylphenol, 4 Methylphenol, 2,4 Dimethylphenol and 2,4 Dichlorophenol