



DEPARTMENT OF THE ARMY  
US ARMY INSTALLATION MANAGEMENT COMMAND  
US ARMY ENVIRONMENTAL COMMAND  
2455 REYNOLDS ROAD  
JOINT BASE SAN ANTONIO FORT SAM HOUSTON, TX 78234-7588

AMIM-AEC-M (1200C)

June 7, 2021

SUBJECT: Site Inspection Work Plan  
Settling Pond 2  
Badger Army Ammunition Plant  
BRRTS #02-57-561617

Mr. Steve Martin  
Wisconsin Department of Natural Resources  
GEF2 Central Office  
PO Box 7921  
Madison, WI 53707-7921

Dear Mr. Martin:

The Department of the Army (Army) is proposing to collect soil samples to determine if shallow soil contamination remains at Settling Pond 2. On August 26, 2020, a prescribed burn by the Wisconsin Department of Natural Resources (WDNR) revealed potential contamination in Settling Pond 2 at the former Badger Army Ammunition Plant (BAAP). This Site Inspection Work Plan is being provided to describe the Army's proposed soil sampling activities to support the site inspection and evaluation.

Settling Pond 2 is part of a larger Settling Pond area that was constructed in 1942 to serve as an aeration and settling basin for the industrial and sanitary wastewater generated at BAAP. The Settling Pond area is in the southern portion of the BAAP and consists of Final Creek, four Settling Ponds, and five Spoils Disposal Areas, see Figure 1.

Between 2009 and 2012, the Army completed numerous remedial actions amounting to the removal of approximately 71,500 cubic yards of impacted soil from Final Creek, Settling Ponds, and the Spoils Disposal Areas. These remedial actions were described in the January 21, 2014, Parcel M1 and T1 Closure Request. The WDNR provided a Final Case Closure with Continuing Obligations determination on June 11, 2014. No further soil investigation or remediation was required at that time.

The WDNR's prescribed burn ignited unknown substances in Settling Pond 2. As described in the WDNR's Reopening of Closed Case letter dated September 16, 2020, the fire produced multi-colored smoke and high intensity flames. The WDNR requested a response action that includes additional soil investigation.

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Figure 2 shows the estimated locations of the soil samples, Settling Pond 2 boundary, soil remedial excavations, 5-foot ground contours, and the 2010 aerial photo as the base map. Figure 2 also shows the approximate location of the former drainage path through the Settling Ponds based on the 1949 aerial photo. Between 1949 and 1953, the road that forms the eastern border of Settling Pond 2 was constructed. Prior to road construction, surface water naturally flowed through a narrow ditch from Settling Pond 2 to Settling Pond 3.

The Army is proposing to collect eight (8) shallow and three (3) deep soil samples from the area designated as Settling Pond 2, see Figure 2. We are proposing to collect the shallow samples from the top 12 inches of soil at locations 1 – 8. The soil samples will be distributed mainly across the bottom of Settling Pond 2 at locations 1 – 7. Soil sample locations 1, 2, 4 & 6 are located along the former drainage path (light blue line) through Settling Pond 2. Soil sample locations 1 & 6 are also located near the entry/exit points of Settling Pond 2. Soil sample locations 3, 5, & 7 are located in the most visibly burnt surface soil. Sample location 8 is located on northern upslope from Settling Pond 2 where sediment spoils removed from the pond bottom were potentially relocated. No soil samples will be collected in areas that were previously excavated. We are proposing to collect the deep samples from approximately 24 inches below ground surface at locations 6, 7 & 8.

During May 2021, a preliminary survey of the soil strata (color, layering, and type) was conducted in several locations in Settling Pond 2. Findings indicate that visibly burned areas have black charred soil at the surface that extends down to approximately 6 inches deep. Beneath the black soil is either a thin gray silt layer or gravelly sand. Other locations indicated sandy topsoil overlying gray silt and then gravelly sand. Gravelly sand was found at all locations below 12 inches deep.

Emphasis will be made to collect soil from various soil types, colors, and textures. This will provide a representative evaluation of the potential contamination at various soil strata. A minimum of one sample will be collected from soil that was visibly burnt. Black charred soil is only visible on the surface at the bottom of Settling Pond 2 and not on the higher ground to the north and south (above the 795 foot ground contour). Samples will also be collected from soil located beneath the black soil. These deeper samples maybe collected from a depth of 6 - 12 inches.

Each soil sample will be collected as a grab sample (from one location) and not composited with multiple locations. Soil samples will be collected using a reusable steel shovel or hand auger. The shovel or auger will be decontaminated between samples withalconox detergent and deionized water. Disposable plastic scoops and disposable gloves will be used transfer the soil to laboratory supplied containers. The sample containers will be placed into an ice filled cooler before transporting to the laboratory.

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The soil samples will be located with a global positioning system (GPS) unit and mapped into the BAAP geographic information system (GIS).

The Army anticipates that the soil samples will be collected during June 2021. All field work and reporting will be conducted by SpecPro Professional Services, LLC (SPS).

The soil samples will be laboratory analyzed for explosives (includes 2,4-dinitrotoluene and 2,6-dinitrotoluene), flashpoint, metals (includes mercury), nitrocellulose, semi-volatile organic compounds (SVOCs) and volatile organic compounds (VOCs). Enclosed are analytical testing lists that include the analytes/compounds, test methods, and their estimated detection limits. All analytical testing will be completed by CT Laboratories, LLC, a WDNR Chapter NR 149 certified laboratory.

The Army will prepare a letter report to the WDNR that summarizes the soil sampling activities, field observations, laboratory sampling results, and discuss possible next steps.

Please do not hesitate to contact me at 210-793-7881 if you have any questions.

Sincerely,

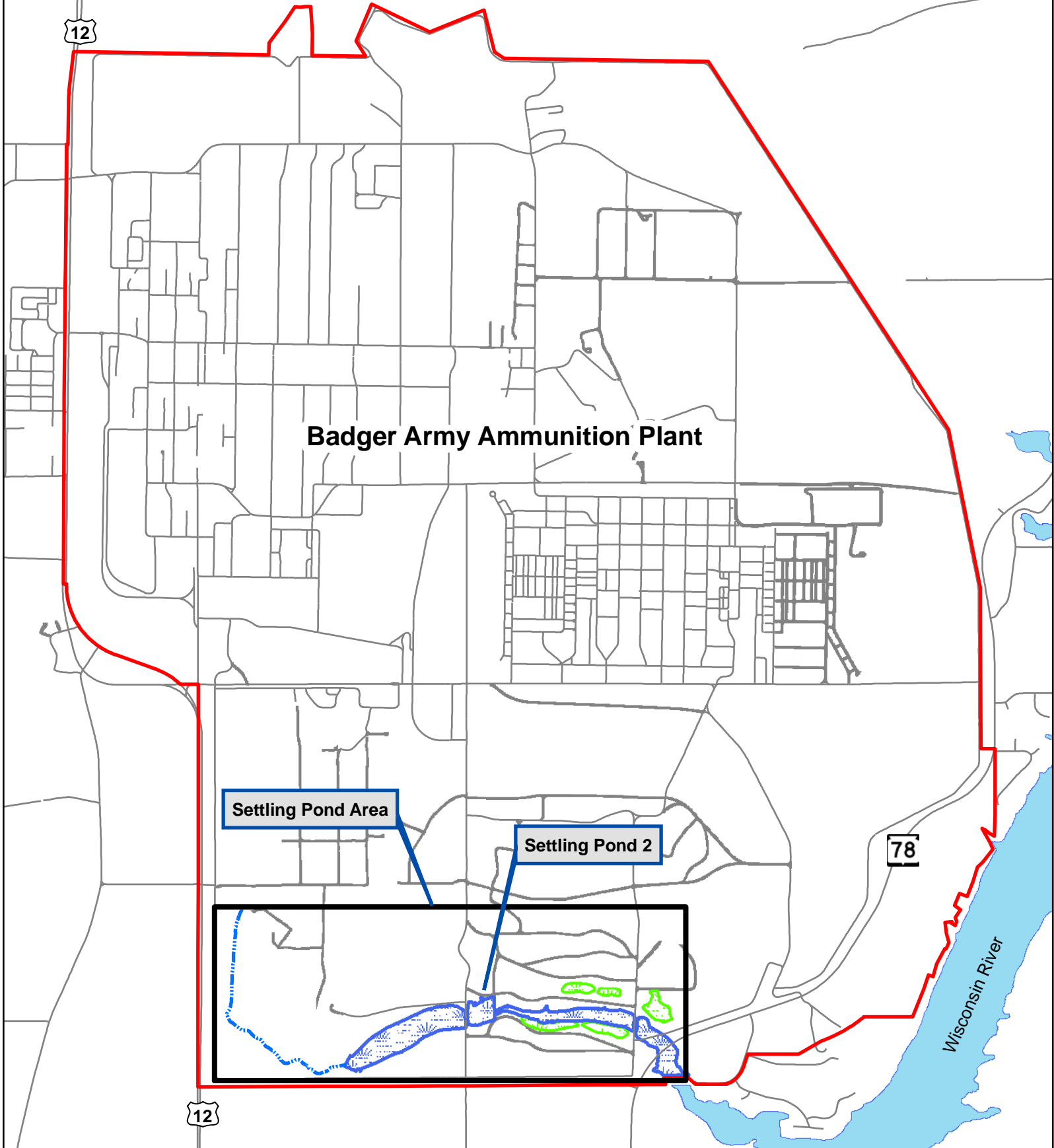


Bryan P. Lynch  
Commander's Representative

Digitally signed by  
LYNCH.BRYAN.PATRICK.1021561254  
Date: 2021.06.07 12:55:11 -05'00'

Enclosure

Copy furn: Joel Janssen, SpecPro Professional Services, LLC



**Badger Army Ammunition Plant**

**Settling Pond Area**

**Settling Pond 2**

**78**

**12**

Wisconsin River

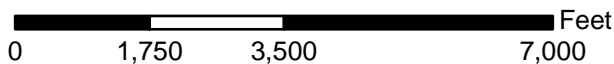
**Legend**

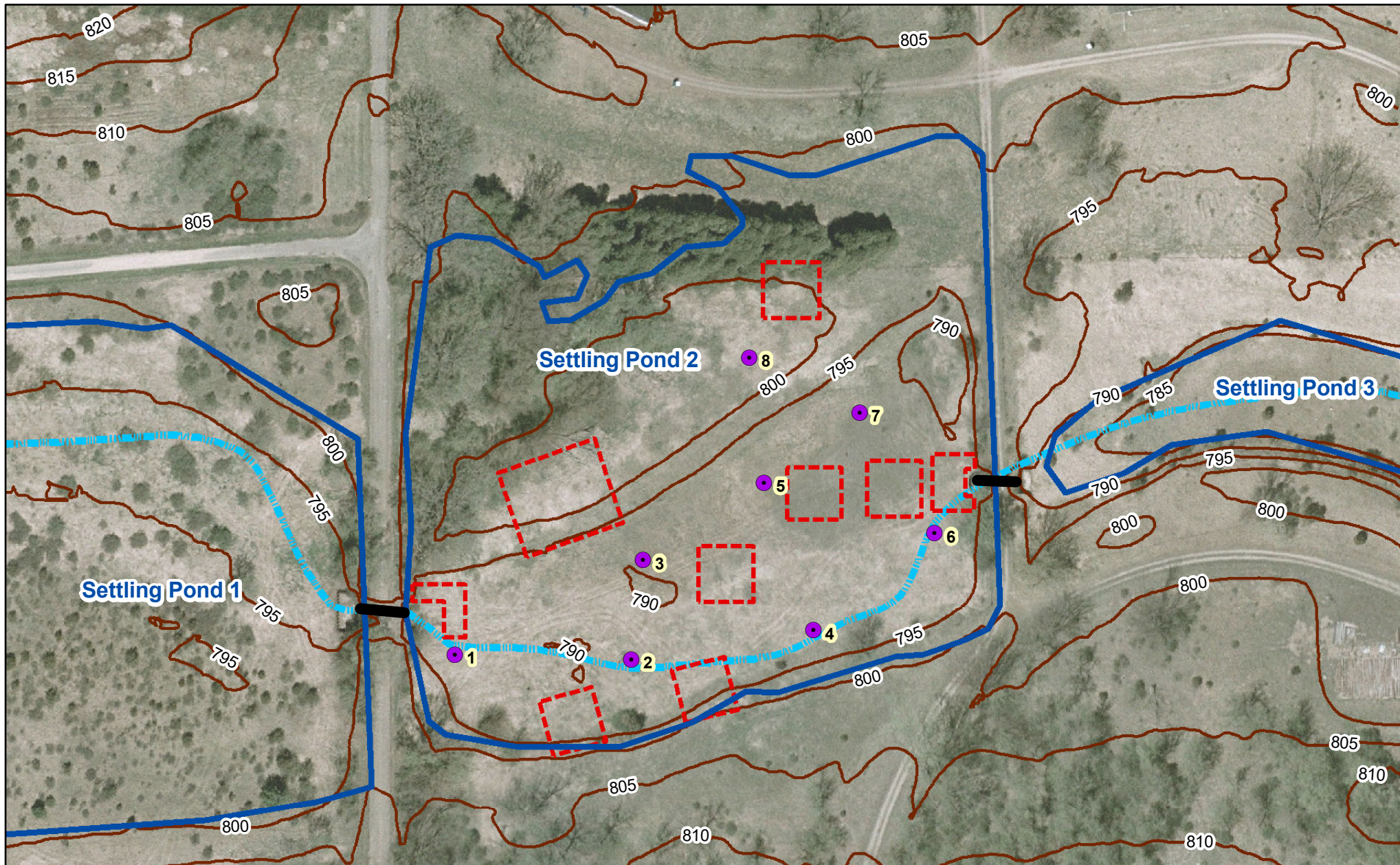
- Badger Army Ammunition Plant Boundary
- Road
- - - Final Creek
- ▒ Settling Pond
- ▒ Spoils Disposal Area

**Figure 1**

Site Location Map  
 Site Inspection Work Plan  
 Settling Pond 2  
 Badger Army Ammunition Plant

1 inch = 2,500 feet



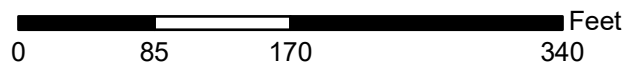


**Legend**

- 1 Proposed Soil Sample
- Settling Pond
- Soil Remedial Excavation
- Contour (5 ft Interval)
- Former Drainage Location (1949)
- Culvert

**Figure 2**

Soil Sample Locations  
 Site Inspection Work Plan  
 Settling Pond 2  
 Badger Army Ammunition Plant



1 inch = 120 feet



2010 Aerial Photo & Contours



**Test:** Explosives  
**Method:** EPA 8330B  
**Matrix:** Soil

| Analyte  | CAS #      | DL   | LOQ  | Units |
|--|------------|------|------|-------|
| 1,3,5-Trinitrobenzene                                  | 99-35-4    | 0.07 | 0.20 | mg/kg |
| 1,3-Dinitrobenzene                                     | 99-65-0    | 0.06 | 0.20 | mg/kg |
| 2,4,6-Trinitrotoluene (TNT)                            | 118-96-7   | 0.10 | 0.20 | mg/kg |
| 2,4-Dinitrotoluene                                     | 121-14-2   | 0.04 | 0.20 | mg/kg |
| 2,6-Dinitrotoluene                                     | 606-20-2   | 0.08 | 0.20 | mg/kg |
| 2-Amino-4,6-dinitrotoluene                             | 35572-78-2 | 0.08 | 0.20 | mg/kg |
| 2-Nitrotoluene   | 88-72-2    | 0.08 | 0.20 | mg/kg |
| 3,5-Dinitroaniline                                     | 618-87-1   | 0.08 | 0.20 | mg/kg |
| 3-Nitrotoluene   | 99-08-1    | 0.09 | 0.20 | mg/kg |
| 4-Amino-2,6-dinitrotoluene                             | 19406-51-0 | 0.07 | 0.20 | mg/kg |
| 4-Nitrotoluene   | 99-99-0    | 0.11 | 0.20 | mg/kg |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) | 2691-41-0  | 0.09 | 0.20 | mg/kg |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)          | 121-82-4   | 0.05 | 0.20 | mg/kg |
| Nitrobenzene   | 98-95-3    | 0.06 | 0.20 | mg/kg |
| Nitroglycerin  | 55-63-0    | 0.20 | 0.40 | mg/kg |
| Pentaerythritol tetranitrate (PETN)                    | 78-11-5    | 0.36 | 0.80 | mg/kg |
| Trinitrophenylmethylnitramine (Tetryl)                 | 479-45-8   | 0.06 | 0.20 | mg/kg |

**Notes:**

All values are represented in milligrams per kilogram (mg/kg)

All values are estimates

CAS - Chemical Abstract Service

DL - Detection Limit

LOQ - Limit of Quantification

# CT LABORATORIES

*delivering more than data from your environmental analyses*



**Test:** Mercury  
**Method:** EPA 7471B  
**Matrix:** Soil

| Analyte | CAS #     | DL     | LOQ    | Units |
|---------|-----------|--------|--------|-------|
| Mercury | 7439-97-6 | 0.0021 | 0.0083 | mg/kg |

**Notes:**

All values are represented in milligrams per kilogram (mg/kg)

All values are estimates

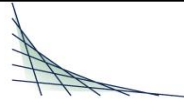
CAS - Chemical Abstract Service

DL - Detection Limit

LOQ - Limit of Quantification

# CT LABORATORIES

delivering more than data from your environmental analyses



**Test:** Metals by ICP  
**Method:** EPA 6010C  
**Matrix:** Soil

| Analyte    | CAS #     | DL    | LOQ   | Units |
|------------|-----------|-------|-------|-------|
| Aluminum   | 7429-90-5 | 0.04  | 0.24  | mg/kg |
| Antimony   | 7440-36-0 | 0.13  | 0.80  | mg/kg |
| Arsenic    | 7440-38-2 | 0.13  | 0.80  | mg/kg |
| Barium     | 7440-39-3 | 0.009 | 0.050 | mg/kg |
| Beryllium  | 7440-41-7 | 0.004 | 0.040 | mg/kg |
| Cadmium    | 7440-43-9 | 0.006 | 0.040 | mg/kg |
| Calcium    | 7440-70-2 | 0.24  | 1.40  | mg/kg |
| Chromium   | 7440-47-3 | 0.023 | 0.140 | mg/kg |
| Cobalt     | 7440-48-4 | 0.04  | 0.24  | mg/kg |
| Copper     | 7440-50-8 | 0.07  | 0.40  | mg/kg |
| Iron       | 7439-89-6 | 0.3   | 1.8   | mg/kg |
| Lead       | 7439-92-1 | 0.04  | 0.25  | mg/kg |
| Lithium    | 7439-93-2 | 0.06  | 0.36  | mg/kg |
| Magnesium  | 7439-95-4 | 0.14  | 0.80  | mg/kg |
| Manganese  | 7439-96-5 | 0.025 | 0.150 | mg/kg |
| Molybdenum | 7439-98-7 | 0.04  | 0.24  | mg/kg |
| Nickel     | 7440-02-0 | 0.021 | 0.120 | mg/kg |
| Selenium   | 7782-49-2 | 0.06  | 0.40  | mg/kg |
| Silver     | 7440-22-4 | 0.017 | 0.100 | mg/kg |
| Strontium  | 7440-24-6 | 0.013 | 0.080 | mg/kg |
| Thallium   | 7440-28-0 | 0.08  | 0.48  | mg/kg |
| Tin        | 7440-31-5 | 0.09  | 0.50  | mg/kg |
| Titanium   | 7440-32-6 | 0.04  | 0.24  | mg/kg |
| Tungsten   | 7440-33-7 | 0.10  | 0.60  | mg/kg |
| Vanadium   | 7440-62-2 | 0.012 | 0.080 | mg/kg |
| Zinc       | 7440-66-6 | 0.05  | 0.30  | mg/kg |

**Notes:**

All values are represented in milligrams per kilogram (mg/kg)

All values are estimates

CAS - Chemical Abstract Service

DL - Detection Limit

ICP - Inductively Coupled Plasma

LOQ - Limit of Quantification



# CT LABORATORIES

*delivering more than data from your environmental analyses*



**Test:** Nitrocellulose  
**Method:** EPA Modified 9056  
**Matrix:** Soil

| Analyte        | CAS #     | DL | LOQ | Units |
|----------------|-----------|----|-----|-------|
| Nitrocellulose | 9004-70-0 | 33 | 200 | mg/kg |

**Notes:**

All values are represented in milligrams per kilogram (mg/kg)

All values are estimates

CAS - Chemical Abstract Service

DL - Detection Limit

LOQ - Limit of Quantification



**Test:** Semi-Volatile Organic Compounds (SVOCs)  
**Method:** EPA 8270D  
**Matrix:** Soil

| Analyte                            | CAS #             | DL  | LOQ | Units |
|------------------------------------|-------------------|-----|-----|-------|
| 1,2,4,5-Tetrachlorobenzene         | 95-94-3           | 100 | 200 | ug/kg |
| 1,2,4-Trichlorobenzene             | 120-82-1          | 83  | 200 | ug/kg |
| 1,2-Dichlorobenzene                | 95-50-1           | 40  | 100 | ug/kg |
| 1,3-Dichlorobenzene                | 541-73-1          | 40  | 100 | ug/kg |
| 1,4-Dichlorobenzene                | 106-46-7          | 40  | 100 | ug/kg |
| 1-Methylnaphthalene                | 90-12-0           | 50  | 100 | ug/kg |
| 2,3,4,6-Tetrachlorophenol          | 58-90-2           | 200 | 500 | ug/kg |
| 2,4,5-Trichlorophenol              | 95-95-4           | 200 | 500 | ug/kg |
| 2,4,6-Trichlorophenol              | 88-06-2           | 200 | 500 | ug/kg |
| 2,4-Dichlorophenol                 | 120-83-2          | 230 | 500 | ug/kg |
| 2,4-Dimethylphenol                 | 105-67-9          | 99  | 500 | ug/kg |
| 2,4-Dinitrophenol                  | 51-28-5           | 200 | 500 | ug/kg |
| 2,4-Dinitrotoluene                 | 121-14-2          | 50  | 100 | ug/kg |
| 2,6-Dichlorophenol                 | 87-65-0           | 280 | 500 | ug/kg |
| 2,6-Dinitrotoluene                 | 606-20-2          | 50  | 100 | ug/kg |
| 2-Chloronaphthalene                | 91-58-7           | 40  | 100 | ug/kg |
| 2-Chlorophenol                     | 95-57-8           | 100 | 500 | ug/kg |
| 2-Methylnaphthalene                | 91-57-6           | 50  | 100 | ug/kg |
| 2-Methylphenol                     | 95-48-7           | 200 | 500 | ug/kg |
| 2-Nitroaniline                     | 88-74-4           | 80  | 200 | ug/kg |
| 2-Nitrophenol                      | 88-75-5           | 300 | 500 | ug/kg |
| 3 & 4-Methylphenol                 | 1319-77-3         | 300 | 500 | ug/kg |
| 3,3'-Dichlorobenzidine             | 91-94-1           | 80  | 200 | ug/kg |
| 3-Nitroaniline                     | 99-09-2           | 40  | 100 | ug/kg |
| 4,6-Dinitro-2-methylphenol         | 534-52-1          | 200 | 500 | ug/kg |
| 4-Bromophenyl-phenyl ether         | 101-55-3          | 50  | 100 | ug/kg |
| 4-Chloro-3-methylphenol            | 59-50-7           | 200 | 500 | ug/kg |
| 4-Chloroaniline                    | 106-47-8          | 39  | 200 | ug/kg |
| 4-Chlorophenyl-phenyl ether        | 7005-72-3         | 50  | 100 | ug/kg |
| 4-Nitroaniline                     | 100-01-6          | 40  | 100 | ug/kg |
| 4-Nitrophenol                      | 100-02-7          | 300 | 500 | ug/kg |
| Acenaphthene                       | 83-32-9           | 70  | 200 | ug/kg |
| Acenaphthylene                     | 208-96-8          | 50  | 100 | ug/kg |
| Acetophenone                       | 98-86-2           | 50  | 100 | ug/kg |
| Anthracene                         | 120-12-7          | 40  | 100 | ug/kg |
| Azobenzene & 1,2-Diphenylhydrazine | 103-33-3/122-66-7 | 100 | 200 | ug/kg |
| Benzo(a)anthracene                 | 56-55-3           | 40  | 100 | ug/kg |
| Benzo(a)pyrene                     | 50-32-8           | 40  | 100 | ug/kg |
| Benzo(b)fluoranthene               | 205-99-2          | 50  | 100 | ug/kg |
| Benzo(g,h,i)perylene               | 191-24-2          | 40  | 100 | ug/kg |
| Benzo(k)fluoranthene               | 207-08-9          | 50  | 100 | ug/kg |

| Analyte                                | CAS #            | DL  | LOQ | Units |
|--|------------------|-----|-----|-------|
| Bis(2-chloroethoxy)methane             | 111-91-1         | 40  | 100 | ug/kg |
| Bis(2-chloroethyl)ether                | 111-44-4         | 50  | 100 | ug/kg |
| Bis(2-chloroisopropyl)ether            | 108-60-1         | 50  | 100 | ug/kg |
| Bis(2-ethylhexyl)phthalate             | 117-81-7         | 50  | 100 | ug/kg |
| Butylbenzylphthalate                   | 85-68-7          | 73  | 200 | ug/kg |
| Carbazole                              | 86-74-8          | 60  | 200 | ug/kg |
| Chrysene                               | 218-01-9         | 40  | 100 | ug/kg |
| Di-n-butylphthalate                    | 84-74-2          | 100 | 200 | ug/kg |
| Di-n-octylphthalate                    | 117-84-0         | 40  | 100 | ug/kg |
| Dibenzo(a,h)anthracene                 | 53-70-3          | 50  | 100 | ug/kg |
| Dibenzofuran                           | 132-64-9         | 40  | 100 | ug/kg |
| Diethylphthalate                       | 84-66-2          | 40  | 100 | ug/kg |
| Dimethylphthalate                      | 131-11-3         | 50  | 100 | ug/kg |
| Fluoranthene                           | 206-44-0         | 40  | 100 | ug/kg |
| Fluorene                               | 86-73-7          | 50  | 100 | ug/kg |
| Hexachlorobenzene                      | 118-74-1         | 50  | 100 | ug/kg |
| Hexachlorobutadiene                    | 87-68-3          | 50  | 100 | ug/kg |
| Hexachlorocyclopentadiene              | 77-47-4          | 50  | 100 | ug/kg |
| Hexachloroethane                       | 67-72-1          | 40  | 100 | ug/kg |
| Indeno(1,2,3-cd)pyrene                 | 193-39-5         | 40  | 100 | ug/kg |
| Isophorone                             | 78-59-1          | 40  | 100 | ug/kg |
| N-Nitroso-di-n-propylamine             | 621-64-7         | 50  | 100 | ug/kg |
| N-Nitrosodimethylamine                 | 62-75-9          | 78  | 200 | ug/kg |
| N-Nitrosodiphenylamine & Diphenylamine | 86-30-6/122-39-4 | 100 | 200 | ug/kg |
| N-Nitrosopyrrolidine                   | 930-55-2         | 40  | 100 | ug/kg |
| Naphthalene                            | 91-20-3          | 40  | 100 | ug/kg |
| Nitrobenzene                           | 98-95-3          | 40  | 100 | ug/kg |
| Pentachlorophenol                      | 87-86-5          | 200 | 500 | ug/kg |
| Phenanthrene                           | 85-01-8          | 40  | 100 | ug/kg |
| Phenol                                 | 108-95-2         | 200 | 500 | ug/kg |
| Pyrene                                 | 129-00-0         | 50  | 100 | ug/kg |
| Pyridine                               | 110-86-1         | 70  | 200 | ug/kg |

**Notes:**

All values are represented in micrograms per kilogram (ug/kg)

All values are estimates

CAS - Chemical Abstract Service

DL - Detection Limit

LOQ - Limit of Quantification



**Test:** Volatile Organic Compounds (VOCs)  
**Method:** EPA 8260C  
**Matrix:** Soil

| Analyte                     | CAS #    | DL  | LOQ  | Units |
|-----------------------------|----------|-----|------|-------|
| 1,1,1,2-Tetrachloroethane   | 630-20-6 | 60  | 200  | ug/kg |
| 1,1,1-Trichloroethane       | 71-55-6  | 16  | 100  | ug/kg |
| 1,1,2,2-Tetrachloroethane   | 79-34-5  | 21  | 100  | ug/kg |
| 1,1,2-Trichloroethane       | 79-00-5  | 12  | 100  | ug/kg |
| 1,1-Dichloroethane          | 75-34-3  | 7   | 50   | ug/kg |
| 1,1-Dichloroethene          | 75-35-4  | 21  | 100  | ug/kg |
| 1,1-Dichloropropene         | 563-58-6 | 27  | 100  | ug/kg |
| 1,2,3-Trichlorobenzene      | 87-61-6  | 11  | 50   | ug/kg |
| 1,2,3-Trichloropropane      | 96-18-4  | 40  | 200  | ug/kg |
| 1,2,4-Trichlorobenzene      | 120-82-1 | 17  | 100  | ug/kg |
| 1,2,4-Trimethylbenzene      | 95-63-6  | 11  | 50   | ug/kg |
| 1,2-Dibromo-3-chloropropane | 96-12-8  | 70  | 200  | ug/kg |
| 1,2-Dibromoethane           | 106-93-4 | 11  | 50   | ug/kg |
| 1,2-Dichlorobenzene         | 95-50-1  | 15  | 100  | ug/kg |
| 1,2-Dichloroethane          | 107-06-2 | 22  | 100  | ug/kg |
| 1,2-Dichloropropane         | 78-87-5  | 26  | 100  | ug/kg |
| 1,3,5-Trichlorobenzene      | 108-70-3 | 16  | 100  | ug/kg |
| 1,3,5-Trimethylbenzene      | 108-67-8 | 13  | 50   | ug/kg |
| 1,3-Dichlorobenzene         | 541-73-1 | 14  | 50   | ug/kg |
| 1,3-Dichloropropane         | 142-28-9 | 14  | 50   | ug/kg |
| 1,4-Dichlorobenzene         | 106-46-7 | 15  | 100  | ug/kg |
| 1-Chlorohexane              | 544-10-5 | 12  | 100  | ug/kg |
| 1,1,2,2-Tetrachloroethane   | 76-13-1  | 30  | 200  | ug/kg |
| 2,2-Dichloropropane         | 594-20-7 | 21  | 100  | ug/kg |
| 2-Butanone                  | 78-93-3  | 400 | 2000 | ug/kg |
| 2-Chlorotoluene             | 95-49-8  | 18  | 100  | ug/kg |
| 2-Hexanone                  | 591-78-6 | 200 | 1000 | ug/kg |
| 2-Nitropropane              | 79-46-9  | 70  | 1000 | ug/kg |
| 4-Chlorotoluene             | 106-43-4 | 15  | 100  | ug/kg |
| 4-Methyl-2-pentanone        | 108-10-1 | 180 | 1000 | ug/kg |
| Acetone                     | 67-64-1  | 400 | 2000 | ug/kg |
| Benzene                     | 71-43-2  | 11  | 50   | ug/kg |
| Bromobenzene                | 108-86-1 | 16  | 100  | ug/kg |
| Bromochloromethane          | 74-97-5  | 17  | 100  | ug/kg |
| Bromodichloromethane        | 75-27-4  | 14  | 50   | ug/kg |
| Bromoform                   | 75-25-2  | 60  | 200  | ug/kg |
| Bromomethane                | 74-83-9  | 90  | 400  | ug/kg |
| Carbon disulfide            | 75-15-0  | 40  | 200  | ug/kg |
| Carbon tetrachloride        | 56-23-5  | 14  | 100  | ug/kg |
| Chlorobenzene               | 108-90-7 | 10  | 50   | ug/kg |
| Chloroethane                | 75-00-3  | 30  | 100  | ug/kg |

| Analyte                   | CAS #       | DL  | LOQ  | Units |
|---------------------------|-------------|-----|------|-------|
| Chloroform                | 67-66-3     | 16  | 100  | ug/kg |
| Chloromethane             | 74-87-3     | 30  | 100  | ug/kg |
| cis-1,2-Dichloroethene    | 156-59-2    | 27  | 100  | ug/kg |
| cis-1,3-Dichloropropene   | 10061-01-5  | 14  | 50   | ug/kg |
| Dibromochloromethane      | 124-48-1    | 40  | 200  | ug/kg |
| Dibromomethane            | 74-95-3     | 21  | 100  | ug/kg |
| Dichlorodifluoromethane   | 75-71-8     | 50  | 200  | ug/kg |
| Dichlorofluoromethane     | 75-43-4     | 40  | 200  | ug/kg |
| Diisopropyl ether         | 108-20-3    | 18  | 100  | ug/kg |
| Ethyl ether               | 60-29-7     | 27  | 100  | ug/kg |
| Ethylbenzene              | 100-41-4    | 11  | 50   | ug/kg |
| Hexachlorobutadiene       | 87-68-3     | 23  | 100  | ug/kg |
| Isopropylbenzene          | 98-82-8     | 13  | 50   | ug/kg |
| m & p-Xylene              | 179601-23-1 | 25  | 100  | ug/kg |
| Methyl tert-butyl ether   | 1634-04-4   | 16  | 100  | ug/kg |
| Methylene chloride        | 75-09-2     | 60  | 400  | ug/kg |
| n-Butylbenzene            | 104-51-8    | 17  | 100  | ug/kg |
| n-Propylbenzene           | 103-65-1    | 13  | 50   | ug/kg |
| Naphthalene               | 91-20-3     | 15  | 100  | ug/kg |
| o-Xylene                  | 95-47-6     | 7   | 50   | ug/kg |
| p-Isopropyltoluene        | 99-87-6     | 13  | 50   | ug/kg |
| sec-Butylbenzene          | 135-98-8    | 11  | 50   | ug/kg |
| Styrene                   | 100-42-5    | 16  | 100  | ug/kg |
| tert-Butylbenzene         | 98-06-6     | 12  | 50   | ug/kg |
| Tetrachloroethene         | 127-18-4    | 11  | 50   | ug/kg |
| Tetrahydrofuran           | 109-99-9    | 250 | 1000 | ug/kg |
| Toluene                   | 108-88-3    | 16  | 100  | ug/kg |
| trans-1,2-Dichloroethene  | 156-60-5    | 14  | 50   | ug/kg |
| trans-1,3-Dichloropropene | 10061-02-6  | 40  | 200  | ug/kg |
| Trichloroethene           | 79-01-6     | 19  | 100  | ug/kg |
| Trichlorofluoromethane    | 75-69-4     | 40  | 200  | ug/kg |
| Vinyl Acetate             | 108-05-4    | 400 | 2000 | ug/kg |
| Vinyl chloride            | 75-01-4     | 19  | 100  | ug/kg |

**Notes:**

All values are represented in micrograms per kilogram (ug/kg)

All values are estimates

CAS - Chemical Abstract Service

DL - Detection Limit

LOQ - Limit of Quantification