

# A Guide to Prein&Newhof's Laboratory Tests & Services



# Environmental Laboratory Services



Prein&Newhof

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# Overview

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Prein&Newhof's Laboratory has been testing water and soil since 1974, because we think that it's important for our clients to get results.

Waiting on test results can hold up your projects and distract you from important work. Let Prein&Newhof help you take care of the details. You can count on us for timely, high quality, well-documented, scientifically-sound results. You can deliver samples to our laboratory in Grand Rapids, or give us a call to coordinate sample pickup.

This Guide is intended to help make your job easier. We've provided a Glossary to help decipher the scientific terms and abbreviations we use to communicate your test results in this booklet and in our reports. We have also included lists of our testing, field sampling, and courier capabilities.

Worried about lead in your water? We can help. We do about 4,000 lead tests each year. Prein&Newhof is one of the few laboratories in West Michigan that specializes in the analysis of drinking water samples. Our Laboratory is Drinking Water Certified by the Michigan Department of Environmental Quality for microbiology, organic chemistry, inorganic chemistry, and metals, including lead and copper.

But, we don't only test drinking water. We provide an extensive list of water (drinking and wastewater) and soils tests for a wide array of clients—municipalities, industries, home-owners, environmental consultants, well drillers, lenders, developers. . . We hope we can help you too.

# Glossary

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- **Analysis** – List of the parameters that were tested.
- **Analyst and Date** – The analyst who did the analysis and the date the sample was analyzed.
- **Common Units of Measurement:**
  - mg/L – milligrams per Liter
  - ug/L – micrograms per Liter
  - ppb – parts per billion
  - ppm – parts per million
  - mg/kg – milligrams per Kilogram
  - Gal – Gallon
- **Matrix** – The component or substrate which contains the analyte of interest (e.g. Water, Solid)
- **MCL** – EPA’s Maximum Contaminant Level. Action Level is similar and referenced for lead. If there is an exceedance, the column to the right of the MCL column will have the notation, “Exceeds MCL”, and you will be notified by the Lab. In drinking water, if the result exceeds the MCL, action must be taken before this water is consumed. If no results exceed an MCL, the sample meets the safe drinking water criteria established for the parameter listed. Not all parameters have an MCL.
- **Method number** – The EPA-approved, parameter-specific method used to analyze the sample.
- **Reference Method** – The EPA-approved testing procedure used for measuring the presence and concentration of physical and chemical pollutants; evaluating properties, such as toxic properties, of chemical substances; or measuring the effects of substances under various conditions.

- **Reporting (RPT) Limit** – The lowest amount our lab can reliably report for that parameter. These levels can change based on dilutions we must make to samples in order to produce quality, reliable data.
- **Result** – The amount of that parameter in your sample. The “<” Symbol indicates that the amount is less than our lab reporting limits.
- **TCLP** – Toxicity Characteristic Leaching Procedure is an EPA-approved soil sample extraction method for chemical analysis employed as an analytical method to simulate leaching through a landfill.
- **Trip blank** – A known blank sample that travels with the samples to the sampling site and back to determine if any parameters may have been picked up during transit.

**Note:** If Volatile (VOC) or Semi-Volatile Organic Compounds (SVOC) were analyzed, there may be results associated with the trip blank.

If you have any questions about testing or your report,  
please call us at 616-364-7600.

Please call us before you collect your own samples. Most samples require refrigeration or other preservation techniques, have specific hold times, designated bottles, and set volumes based on the analyses requested.

# Field Sampling & Courier Services

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We tailor our services to meet your needs.

- Prein&Newhof offers Industrial Pretreatment Program (IPP) sampling at any location. IPP sampling may be required by your local sewer system regulatory body, depending on your SIC code or discharge characteristics.
- Prein&Newhof offers residential sampling (drinking water well) for private use or for sale/refinance of a home.
- Our Grand Rapids Laboratory offers sample pickup from your location Monday through Friday during regular business hours. Our Holland and Muskegon offices are designated sample drop-off spots upon request.

## NPDES (National Pollutant Discharge Elimination System)

### IPP (Industrial Pretreatment Program)

Instantaneous Grab Sampling, 24-hour Composite Sampling

#### Typical Wastewater IPP

- BOD5
- Ammonia
- T. Phosphorous
- TSS

#### City of Grand Rapids IPP

- Cyanide
- pH
- Metals (Ag, Cd, Cr, Cu, Pb, Ni, Zn)



# Drinking Water Certification Tests

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Metals	Reference Method	Reporting Limit
Aluminum	EPA 200.7	50 ug/L
Antimony	SM3113B	4 ug/L
Arsenic	SM3113B	4 ug/L
Barium	EPA 200.7	10 ug/L
Beryllium	EPA 200.7	2 ug/L
Cadmium	SM3113B, EPA 200.7	0.2 ug/L, 4 ug/L
Calcium	EPA 200.7	4 ug/L
Chromium	EPA 200.7	10 ug/L
Copper	EPA 200.7	10 ug/L
Iron	EPA 200.7	10 ug/L
Lead	SM3113B	3 ug/L
Magnesium	EPA 200.7	10 ug/L
Manganese	EPA 200.7	10 ug/L
Mercury	EPA 245.1	0.2 ug/L
Nickel	EPA 200.7	50 ug/L
Potassium	EPA 200.7	500 ug/L
Selenium	SM3113B	5 ug/L
Sodium	EPA 200.7	10 ug/L
Thallium	EPA 200.9	2 ug/L
Zinc	EPA 200.7	10 ug/L

Inorganics	Reference Method	Reporting Limit
Cyanide, Total	SM 4500-CN CE	0.006 mg/L
Nitrate - NO3	SM 4110B	0.1 mg/L
Nitrite - NO2	SM 4110B	0.1 mg/L
Fluoride	Sm 4110B	0.1 mg/L
Sulfate - SO4	SM 4110B	0.5 mg/L
Total Organic Carbon - TOC	SM 5310C	0.1 mg/L

Microbiology	Reference Method	Reporting Limit
Total Coliform/E. Coli	Ready Cult	Present/Absent
Heterotrophic Plate Count (HPC)	Simplate	1 Colony/mL
Enumeration of E. Coli	Modified M-Tech	1 Colony/100mL
Enumeration of Total Coliform & E. Coli	M-Coli Blue	1 Colony/100mL

Organic	Reference Method	Reporting Limit
EDB & DBCP	EPA 504.1	0.0001 mg/L
Benzo(a)pyrene	EPA 550	0.2 ug/L
HAA5	EPA 552.3	1 ug/L
THM	EPA 524.2	0.0005 mg/L
Regulated Volatiles	EPA 524.2	0.0005/0.001 mg/L
Unregulated Volatiles	EPA 524.2	0.0005/0.001 mg/L

# Chemistry

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General	Matrix	Reference Method	Reporting Limit
% Moisture	Solid	ASTM D2974	0.10%
% Organic Matter	Solid	EPA 160.4	0.10%
% Volatiles	Water	Method 24	0.10%
Acidity	Water	SM 2310 B	4 mg/L CaCO3
Acid Solubility	Solid	AWWA B100-80	0.10%
Alkalinity, Total	Water	EPA 310.2	4 mg/L CaCO3
Bicarbonate	Water	EPA 310.2	4 mg/L CaCO3
Carbonate	Water	EPA 310.2	4 mg/L CaCO3
Hydroxide	Water	EPA 310.2	4 mg/L CaCO3
Phenolphthalein	Water	EPA 310.2	4 mg/L CaCO3
Biochemical Oxygen Demand (BOD)	Water	SM 5210 B	2 mg/L
	Solid	SM 5210 B	50 mg/kg
Biochemical Oxygen Demand, Carbonaceous (CBOD)	Water	SM 5210 B	2 mg/L
Bromide	Water	SM 4110 B	0.5 mg/L
	Solid	SM 4110 B	1 mg/Kg
Carbon, Dissolved Organic	Water	SM 5310 B	0.1 mg/L
Carbon, Total Organic (TOC)	Water	EPA 415.2	0.1 mg/L
Carbon Dioxide	Water	SM 4500CO2 B	0.1 mg/L
Chloride	Water	SM 4110	0.1 mg/L
	Solid	SW 9056	1 mg/Kg
Chloride (Concrete) Water Soluble	Concrete	T-260-95	0.005%
Chloride (Concrete)	Concrete	ASTM 1152, ASTM C1218	0.005%
Chlorine Demand	Water	SM 2350 B	0.03 mg/L
Chlorine, Residual	Water	SM 4500-CL G	0.025 mg/L
Chlorine, free	Water	SM 4500-CL G	0.025 mg/L

General Cont'd	Matrix	Reference Method	Reporting Limit
Chemical Oxygen Demand (COD)	Water	SM 5220D / EPA 410.4	5 mg/L
	Solid	EPA 410.4M	100 mg/Kg
Color	Water	SM 2120 B	2.5 CU
Corrosivity/pH	Water	SM 4500-H	NA
	Solid	ASTM-G51	NA
Chlorophyll	Water	10200H	-100 mg/m3
Cyanide, Amenable	Water	SM 4500-CN G	0.005 mg/L
	Solid	SM 4500-CN G	0.1 mg/Kg
Cyanide, Free	Water	SW 9014	0.005 mg/L
Cyanide, Reactive	Waste	SW 9010	0.005 mg/L
Cyanide, Total	Water	ASTM D-7511, SM 4500-CN E	0.005 mg/Kg
	Solid	SM 4500-CN E	0.1 mg/Kg
Density	Water	SM 2710-F	0.5 lb/Gal
	Solid	SM 2710-F	0.5 lb/Gal
Flash Point	Water	ASMT D93	20C
	Solid	ASMT D92	20C
Fluoride	Water	SM 4110 B	0.1 mg/L
	Solid	SW 9056	1 mg/Kg
Formaldehyde	Water	N3500M	0.04 mg/L
	Solid	N3500M	0.4 mg/Kg
Formaldehyde - Fabric Release	Fabric	AATC112-1998	2 ug/g
Hardness, Total	Water	EPA 130.1	4 mg/L CaCO3
Hardness, Calcium, Magnesium	Water	EPA 130.2	4 mg/L CaCO3
Iodide	Water	SM4110 B	0.5 mg/L
Nitrogen, Ammonia as N	Water	SM 4500-NH3 D	0.03 mg/L
	Solid	SM 4500-NH3 D	1 mg/Kg

General Cont'd	Matrix	Reference Method	Reporting Limit
Nitrogen, Ammonium	Water	SM 4500-NH3 DM	0.03 mg/L
	Solid	SM 4500-NH3 DM	1 mg/Kg
Nitrogen, Nitrate as N	Water	SM 4110 B	0.1 mg/L
	Solid	SW 9056	1 mg/Kg
Nitrogen, Nitrite as N	Water	SM 4110 B	0.1 mg/L
	Solid	SW 9056	1 mg/Kg
Nitrogen, Total Kjeldahl Nitrogen (TKN)	Water	SM 4500-NBD, EPA 351.4	0.1 mg/L
	Solid	EPA 351.4	0.1 mg/Kg
Nitrogen, Total (Includes TKN, NO3 and NO2)	–	Calculation	–
Nitrogen, Total Inorganic (Includes NH3, NO3 and NO2)	–	Calculation	–
Nitrogen, Total Organic (Includes TKN and NH3)	–	Calculation	–
Odor	Water	SM 2150 B	1 threshold #
Oil & Grease	Water	E 1664	5 mg/L
	Solid	E 1664	250 mg/Kg
Oil & Grease - TPH	–	E 1664	5 mg/L
ORP	Water	SM 2580 B	–
	Solid	D 1498	–
Dissolved Oxygen	Water	SM 4500-0 G	0.1 mg/L
Paint Filter	–	SW 9095 A	Pass/Fail
Phenolics	Water	EPA 420.1	0.005 mg/L
	Solid	SW 9065	0.05 mg/Kg
Phosphorus, Ortho as P	Water	SM 4500 P-E	0.005 mg/L
Phosphorus, Total as P	Water	SM 4500 P-E	0.005 mg/L
	Solid	SM 4500 P-E	0.05 mg/Kg
Resistivity	Water	D-1125	0.1 ohm/cm
	Solid	AASHTO T288	0.1 ohm/cm

General Cont'd	Matrix	Reference Method	Reporting Limit
Salinity	Water	Calculation	0.001 S
Solids, Total Dissolved (TDS)	Water	SM 2540 C	4 mg/L
Solids, Settleable	Water	SM 2540 F	1 ml/L
Solids, Total	Water	EPA 160.3	4 mg/L
Solids, Total Suspended (TSS)	Water	SM 2540 D	4 mg/L
Solids, Total Volatile Suspended (TVSS)	Water	EPA 160.4	4 mg/L
Specific Conductance	Water	EPA 120.1	1 umhos/cm
Specific Gravity	Water	SM 2710 F	0.1 gm/mL
	Solid	SM 2710 F	0.1 gm/g
Sulfate	Water	SM 4110 B	0.5 mg/L
	Solid	SW 9056	5 mg/Kg
Sulfide, Dissolved	Water	SM 4500 S 2D	0.02 mg/L
Sulfide, Total	Water	EPA 376.2	0.1 mg/L
Sulfide, Reactive	Water	–	0.1 mg/L
Sulfite	Water	SM 4500 S O 3B	2 mg/L
	Solid	SM 4500 S O 3B	2 mg/Kg
Surfactants (MBAS)	Water	SM 5540 C	0.05 mg/L
	Solid	SM 5540 C	25 mg/Kg
Tannin	Water	SM 5550	0.2 mg/L
Temperature	Water	SM 2550 B	–
Turbidity	Water	EPA 180.1	0.01 NTU

# Metals

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ICP - Inductively Coupled Plasma	Matrix	Reference Method	Reporting Limit
Aluminum	Aqueous	EPA 200.7	0.04 mg/L
	Solid	EPA 200.7	0.5 mg/Kg
Arsenic	Aqueous	EPA 200.7	0.05 mg/L
	Solid	EPA 200.7	0.625 mg/Kg
Barium	Aqueous	EPA 200.7	0.002 mg/L
	Solid	EPA 200.7	0.025 mg/Kg
Beryllium	Aqueous	EPA 200.7	0.001 mg/L
	Solid	EPA 200.7	0.0125 mg/Kg
Bismuth	Aqueous	EPA 200.7	0.2 mg/L
	Solid	EPA 200.7	2.5 mg/L
Boron	Aqueous	EPA 200.7	0.01 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Cadmium	Aqueous	EPA 200.7	0.004 mg/L
	Solid	EPA 200.7	0.05 mg/Kg
Calcium	Aqueous	EPA 200.7	0.004 mg/L
	Solid	EPA 200.7	0.05 mg/Kg
Chromium	Aqueous	EPA 200.7	0.008 mg/L
	Solid	EPA 200.7	0.10 mg/Kg
Cobalt	Aqueous	EPA 200.7	0.004 mg/L
	Solid	EPA 200.7	0.05 mg/Kg
Copper	Aqueous	EPA 200.7	0.004 mg/L
	Solid	EPA 200.7	0.05 mg/Kg
Iron	Aqueous	EPA 200.7	0.010 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Lithium	Aqueous	EPA 200.7	0.005 mg/L
	Solid	EPA 200.7	0.0625 mg/Kg
Phosphorous	Aqueous	EPA 200.7	0.05 mg/L
	Solid	EPA 200.7	0.625 mg/Kg

ICP Cont'd	Matrix	Reference Method	Reporting Limit
Lead	Aqueous	EPA 200.7	0.01 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Lead (Soil Fractions)	Solid	EPA 200.7	0.125 mg/Kg
Magnesium	Aqueous	EPA 200.7	0.010 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Manganese	Aqueous	EPA 200.7	0.003 mg/L
	Solid	EPA 200.7	0.0375 mg/Kg
Molybdenum	Aqueous	EPA 200.7	0.010 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Nickel	Aqueous	EPA 200.7	0.01 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Potassium	Aqueous	EPA 200.7	0.5 mg/L
	Solid	EPA 200.7	6.25 mg/Kg
Silver	Aqueous	EPA 200.7	0.006 mg/L
	Solid	EPA 200.7	0.075 mg/Kg
Sodium	Aqueous	EPA 200.7	0.01 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Strontium	Aqueous	EPA 200.7	0.01 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Tin	Aqueous	EPA 200.7	0.1 mg/L
	Solid	EPA 200.7	1.25 mg/Kg
Titanium	Aqueous	EPA 200.7	0.02 mg/L
	Solid	EPA 200.7	0.25 mg/Kg
Vanadium	Aqueous	EPA 200.7	0.008 mg/L
	Solid	EPA 200.7	0.10 mg/Kg
Zinc	Aqueous	EPA 200.7	0.002 mg/L
	Solid	EPA 200.7	0.025 mg/Kg



ICP Cont'd	Matrix	Reference Method	Reporting Limit
Silica	Aqueous	EPA 200.7	0.02 mg/L
	Solid	EPA 200.7	0.25 mg/Kg
Sulfur	Aqueous	EPA 200.7	0.05 mg/L
	Solid	EPA 200.7	0.625 mg/Kg
Gold	Aqueous	EPA 200.7	0.01 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Palladium	Aqueous	EPA 200.7	0.02 mg/L
	Solid	EPA 200.7	0.25 mg/Kg
Platinum	Aqueous	EPA 200.7	0.01 mg/L
	Solid	EPA 200.7	0.125 mg/Kg
Iridium	Aqueous	EPA 200.7	0.25 mg/L
	Solid	EPA 200.7	3.125 mg/Kg
Ruthenium	Aqueous	EPA 200.7	0.25 mg/L
	Solid	EPA 200.7	3.125 mg/Kg
Rhodium	Aqueous	EPA 200.7	0.25 mg/L
	Solid	EPA 200.7	3.125 mg/Kg
Scandium	Aqueous	EPA 200.7	0.25 mg/L
	Solid	EPA 200.7	3.125 mg/Kg

## Typical Metal Groups

### Michigan 10

As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn

### IPP Metals

Cd, Cr, Cu, Ni, Pb, Zn, Ag

### Dredged Materials

As, Ba, Cd, Cr, Cu, Pb, Mn, Hg, Ni, Se, Ag, Zn

### Complete Metals

Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ti, Zn

GFAA - Graphite Furnace Atomic Absorption	Matrix	Reference Method	Reporting Limit
Antimony	Aqueous	SM3113B	2 ug/L
	Solid	SW 7010	25 ug/Kg
Arsenic	Aqueous	SM3113B	1 ug/L
	Solid	SW 7010	12.5 ug/Kg
Cadmium	Aqueous	SM3113B	0.2 ug/L
	Solid	SW 7010	2.5 ug/Kg
Chromium	Aqueous	SM3113B	1 ug/L
	Solid	SW 7010	12.5 ug/Kg
Copper	Aqueous	SM3113B	1 ug/L
	Solid	SW 7010	2.5 ug/Kg
Lead	Aqueous	SM3113B	1 ug/L
	Solid	SW 7010	12.5 ug/Kg
Selenium	Aqueous	SM3113B	1 ug/L
	Solid	SW 7010	12.5 ug/Kg
Silver	Aqueous	SM3113B	0.5 ug/L
	Solid	SW 7010	6.25 ug/Kg
Thallium	Aqueous	EPA 200.9	1.0 ug/L
	Solid	SW 7010	12.5 ug/Kg

CV - Cold Vapor	Matrix	Reference Method	Reporting Limit
Mercury	Water	EPA 245.1	0.2 ug/L
	Soil	EPA 245.1	2.5 ug/Kg

# Microbiology

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Microbiological Analysis	Matrix	Reference Method	NPDES
Total Coliform Bacteria (Presence/Absence)	D. Water	Ready Cult	–
T. Coliform Bacteria - T&E (Membrane Filtration)	D. Water	M-Coli Blue HACH 10029	–
Coliform, Fecal	Water/ Sludge	SM 9222D	20 colonies/100ml
E-Coli (modified M-Tec)	Water	EPA 1603	–
Heterotrophic Plate Count (HPC)	Water/Solid	Simplate	–
Iron Bacteria	D. Water	Hach BART	–
Sulphate Reducing Bacteria	D. Water	Hach BART	–

# Organics

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Volatile Organics Groups	Matrix	Reference Method	Reporting Limit
*VOC Full List	Water	SW8260B	Various
	Soil	SW8260B	Various
VOC -BTEX	Water	SW8260B	Various
	Soil	SW8260B	Various
MDEQ Scan 1&2	Water	EPA 624/SW8260B	Various
	Soil	SW8260B	Various
Gasoline Range Organics (GRO)	Water	SW8260B	Various
	Soil	SW8260B	Various
UST-VOC	Water	SW8260B	Various
	Soil	SW8260B	Various
Acetates	Water	EPA 1666	Various
	Soil	EPA 1666	Various
TTO Volatiles	Water	EPA 624	Various

\* Please contact the Laboratory for the full list of specific organic testing group compounds.

Semi-Volatile Organics Groups	Matrix	Ref Method	Reporting Limit
Acid Extractables	Water	8270C	Various
	Soil	EPA 8270C	Various
Base/Neutral Extractables	Water	8270C	Various
	Soil	EPA 8270C	Various
Diesel Range Organics (DRO)	Water	EPA 8015M	100 ug/L
	Soil	EPA 8015M	4000 ug/Kg
Volatile Fatty Acids	Water/Soil	SM 5560D	
Glycols	Water	SW 8015	7500 ug/L
	Soil	SW 8015	7500 ug/Kg
Herbicides	Water	EPA 8150B	1 ug/L
	Soil	EPA 8151	Various
Alcohols	Water	EPA 8015B	Various
	Soil	EPA 8015B	Various
Phthalate Esters	Water	EPA 8270C	Various
	Soil	EPA 8270C	Various
PCB	Water	EPA 8082	0.1 ug/L
	Soil	EPA 8082	300 ug/Kg
PCB in Oil	Oil	EPA 8082	1 mg/Kg
Pesticides	Water	EPA 8080A	0.01 ug/L
	Soil	EPA 8081A	5 ug/Kg
PNA - GC-MS	Water	EPA 8270C	Various
	Soil	EPA 8270C	330 ug/kg
PNA - HPLC	Water	SW 8310	Various
	Soil	SW 8310	330 ug/Kg
TTO Semi-Volatiles	Water	EPA 625	Various
Pamak	Water	EPA 8015B	10 ug/L
	Soil	EPA 8015B	500 ug/Kg

# TCLP – Waste Characteristics

Individual Analysis	Matrix	Reference Method
Corrosivity, pH	Liquid	EPA 9040
	Solid	EPA 9045
Flash Point	Liquid	ASTMD93
	Solid	ASTMD92
Paint Filter	Liquid/Solid	EPA 9095
Reactive Cyanide	Liquid/Solid	EPA SW 846
Reactive Sulfide	Liquid/Solid	EPA SW 846
TCLP Extraction for Metals, Semi-Volatiles, Pesticides, & Herbicides	Liquid/Solid	EPA 1311
TCLP ZHE Extraction for Volatiles	Liquid/Solid	EPA 1311
SPLP Extraction for Metals, Semi-Volatiles, Pesticides, & Herbicides	Liquid/Solid	EPA 1312
SPLP ZHE Extraction for Volatiles	Liquid/Solid	EPA 1312

## Typical TCLP Groups

### Full TCLP

Reactivity (pH, Cyanide, Sulfide), Flash Point, Metals, Volatiles, Semi-Volatiles, Pesticides, Herbicides

### TCLP Minus

Reactivity (pH, Cyanide, Sulfide), Flash Point, Metals, Volatiles, Semi-Volatiles

### TCLP Metals

Arsenic, Barium, Chromium, Copper, Lead, Mercury, Selenium, Silver, Zinc.

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\* Sample Drop Off Locations