OnSite Environmental Inc.

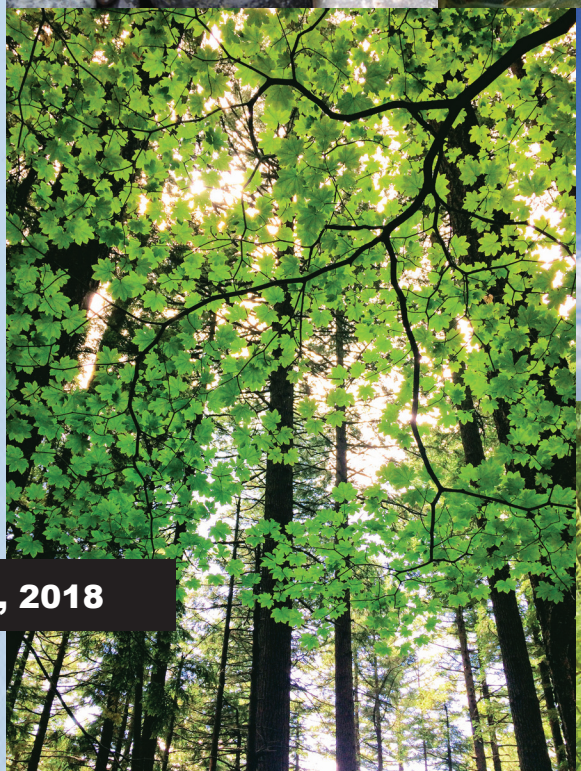
Analytical Laboratory Testing Services

425.883.3881

Schedule of

Fees and Services




May 1, 2018

OnSite Environmental Inc.
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Table of Contents

www.onsite-env.com

General Information

We appreciate the opportunity to offer our services to you and your company. OnSite Environmental, Inc. (OnSite) is a full service environmental laboratory that has been providing high quality analytical testing services to the northwest environmental community since 1992. We appreciate the client relationships that we have established during this time. The following is a comprehensive description of the services offered by OnSite. It includes a schedule of fees, rush service charges, turnaround times, bottle and shipping requirements, deliverables, and other customer support information. We look forward to putting our twenty-six years of analytical laboratory experience to work on your environmental projects.

Quality Assurance/Quality Control:

OnSite Environmental, Inc's laboratory quality assurance and quality control (QA/QC) is conducted under the guidelines of our Quality Assurance Manual. The Quality Assurance program is an essential part of the analytical procedures used by all levels of our professional staff and encompasses all aspects of analytical activity, from sample integrity and data quality to proper documentation. Standard practice includes the analysis of method blanks, duplicate samples, matrix or blank spiked samples, and duplicate spiked samples, with each batch of samples processed through the laboratory. A copy of our current Quality Assurance Manual is available upon request or can be downloaded from our website at http://www.onsite-env.com. Standard Operating Procedures (SOPs), which detail the procedures of all the operations of our laboratory, are also available upon request, and are listed in Appendix B in our Quality Assurance Manual.

Project Managers/Client Interface:

OnSite has a commitment to ensure that samples are analyzed in a timely manner and that analytical results are reported in compliance with project specifications. Our project managers work with our clients in coordinating analytical projects and facilitating work through the laboratory. Project specific QA/QC, data deliverables, reporting requirements, and methods should be discussed with your OnSite project manager. For larger projects and projects requiring shorter turnaround times, it is important to communicate the scope of the project with the laboratory. Your project manager is always available to answer questions concerning your analytical data and discuss the status of your samples.

Sample Containers:

OnSite will provide sample containers with appropriate preservatives, coolers for transportation, labels, and chain-of-custody forms at no cost to our clients. We will ship the appropriate sample containers by non-priority service at no cost. Priority courier or shipping service of supplies may incur a charge. Sample containers and preservatives vary with different analytical methods, so please contact the laboratory for specific requirements.

Sample Pickup Service:

OnSite will provide free sample pickup and delivery of sample supplies at locations within King, Pierce, and Snohomish counties. For locations outside this area, contact the laboratory for special pickup arrangements, and cost. We can pickup samples at a field location or at your offices. To schedule a pickup, please contact your project manager.

Sample Receiving Hours:

Sample receiving hours are from 8:00 am to 6:00 pm – Monday through Friday (except holidays), and Saturday 8:00 am to 12:00 pm. Sample delivery on holidays and after hours is available, but should be scheduled with your project manager prior to submission. Samples received after 3:30 pm will be checked-in on that day, but the turnaround time will be determined based on "sample receipt" on the next business day. See turnaround policy on page 2.

Sample Holding Times:

Samples should be delivered to the laboratory as soon as possible after sampling in order for the laboratory to analyze the samples within regulatory holding times. Refer to the Sample Preservation, Storage and Holding Times chart on pages 13 through 16. For analyses requested on samples with less than 24 hours remaining on their hold-time, every effort will be made to extract and analyze within the hold-time. There may be a rush surcharge applied to the rush extraction and analysis. Please contact the laboratory if you have any other questions regarding holding time requirements.

Records Retention and Sample Storage:

OnSite retains all hard copy reports and applicable raw data for at least five years after submission of results. Electronic versions of all reports and applicable raw data are stored for at least seven years after submission of results. They are available for review upon request. There may be a charge for the retrieval of stored lab reports or raw data. Hard copy reports will be shredded and recycled after the storage period.

Samples received by the laboratory will be stored for a minimum of 30 days from the date of receipt. For samples requiring longer storage, there is a $10.00 per sample per month charge. Sample extracts are stored for at least 40 days after the date of extraction.

Turnaround Time:

Standard turnaround time is 7 working days from the date of sample receipt by the laboratory. Samples received by the laboratory after 3:30 pm will be considered received as of 8:00 am on the following working day. These turnaround times are for standard data deliverables. For more complex deliverables, the turnaround time is 15 working days. Expedited turnaround is available at the following premiums above list price:

Same day service	100% based on availability
1 day turnaround	80%
2 day turnaround	60%
3 day turnaround	40%
4 day turnaround	25%
5-6 day turnaround	10%

Please schedule expedited analyses prior to submission of samples. Completion of rush service and standard turnaround is considered to be the e-mail transmission or the verbal delivery of results by close of business (COB) on the due date. Please discuss any specific dates of required data delivery with your project manager prior to submission of samples.

Please note that in some cases of expedited analyses, preliminary results are given prior to the availability of the final report. These results should be considered tentative results, and may change after the data goes through the final quality review procedures.

Pricing:

These prices are in effect for two years: from May 1, 2018 until April 30, 2020.
OnSite attempts to keep the fee schedule as uncomplicated as possible. We do not charge for determining percent solids for soils, sample disposal, sample chromatograms, or for most sample cleanup procedures. The fee schedule is applicable for water, soil, sediment, and waste matrices unless otherwise specified. Discounts from our standard prices are available for large projects or long-term contracts. The prices are applicable for standard data deliverables (including standard electronic data deliverables), and turnaround times. Surcharges may apply for higher-level data deliverables, expedited turnaround, and customized electronic formats. Contact your project manager for details.

Subcontracted Analyses:

If a project requires subcontracting to another laboratory, we will notify and discuss this with you in advance. If pricing for the subcontracted analyses is not specifically listed in this price schedule, we will charge at the rate we are charged, plus 10%. Shipping costs may also be incurred and charged for subcontracted analyses. Please note that for these subcontracted analyses turnaround times and rush surcharges may be different than those listed above. Please contact your project manager to discuss.

Payment Terms:

Credit terms are net 30 days upon credit approval, unless other payment terms have been specifically negotiated or contracted. Without prior credit arrangements, all sample charges are due prior to sample analysis. Past due invoices will be subject to an interest charge of 1.5% per month, plus collection fees, if required.

Deliverables:

OnSite provides several levels of data reporting to meet your specific project needs. Deliverable requirements should be discussed with your OnSite project manager prior to submittal of samples. Deliverable packages in excess of our standard report may incur a surcharge. The following are the typical data deliverable packages offered to our clients. We are also able to provide fully customized deliverables depending on your specific project needs. Please consult with your project manager.

- **Standard Report (Level II)** This includes a cover letter, case narrative, analytical results, surrogate recoveries for each sample, method blank results, duplicate analyses, matrix or blank spiked analyses, and duplicate spiked analyses. The report also includes chain-of-custody documents.
- **Data Review Package (Level III)** In addition to our standard report, this includes selected raw data, chromatograms, bench sheets (where applicable) and continuing calibration summaries. This report also includes sample receipt documentation. There is a 5% surcharge for this data package.
- **CLP Equivalent Data Package (Level IV)** This report meets the deliverable requirements specified in the EPA Contract Laboratory Program Statement of Work. There is a 10% surcharge for this data package.

Laboratory Reports:

OnSite's laboratory reports are provided as signed *.pdf* documents. Invoices are also provided as *.pdf* documents. If a mailed hard-copy laboratory report or invoice is required, it will be provided at no additional charge. Please contact your project manager.

Electronic Data Deliverables:

OnSite can provide electronic data deliverables compatible with a variety of common industry formats (EQuIS, WDOE-EIM, SEDD stage 2a, etc.) as either excel tables, text files or *.xml* files. We also offer customizable formats to align our electronic data with your particular database or program requirements. Projects requiring more than one electronic data deliverable format, may incur a charge. Please contact your project manager for a consultation.

Reporting limits:

OnSite's reporting limits are typically the practical quantitation limit (PQL). The PQL is defined as *the lowest concentration that can be reliably measured during routine laboratory operating conditions, using approved methods*. Your project manager will work closely with you to ensure that any project specific reporting limits are met. We can, for specific projects, report to our method detection limit (MDL). These limits are based on annual laboratory MDL studies, and are estimated quantities below the PQL. Please note that reporting limits (whether PQLs or MDLs) are directly affected by the sample matrix as well as by the quantity of sample provided. Issues surrounding the matrix may prevent the attainment of standard reporting limits. If insufficient sample volume is provided, we will notify you of the potential for elevated reporting limits and/or the need for re-collection of the sample. Reporting limits are available upon request.

Analytical Methods:

OnSite will perform analytical services using methods approved by the US Environmental Protection Agency (EPA), Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), Washington Department of Ecology (WDOE), State Agencies, or other recognized methodologies. We update our analytical methods to the latest versions of these methods as they are published by their respective oversight agencies. OnSite may deviate from these methodologies, if necessary or appropriate, due to the nature or composition of the sample, and based on the reasonable judgment of the laboratory. Such modifications will be done in a manner consistent with recognized analytical procedures and good laboratory practices.

Confidentiality:

OnSite maintains the confidentiality of all analytical data. It is the property of the client paying for the service. No information regarding projects or analytical data will be released to other parties without direct authorization from our clients.

Limits of Liability:

OnSite provides services in accordance with normal professional standards of the industry and under the guidelines of our Quality Assurance Program. OnSite will perform the requested analyses based on the standard methods but may have to deviate from these methods when necessary, based on reasonable judgment. The total liability of OnSite Environmental Inc., its officers, agents, or employees shall not exceed the invoiced amount for the services provided. OnSite shall have no liability or responsibility for losses, costs, or damages related to the use of its services. This limit of liability shall supersede all clauses to the contrary, implied or otherwise, in any client purchase order or contract, unless different terms are authorized in writing by an officer of the laboratory.

Analysis	Method	Price
Volatile Organics (VOCs)	EPA 8260C	170
Volatile Organics - TIC Scan [1]	EPA 8260C	40
Halogenated Volatile Organics (HVOCs)	EPA 8260C	110
HVOCs plus BTEX	EPA 8260C	130
Volatile Organics (single analyte)	EPA 8260C	90
Volatile Organics (2-5 analytes)	EPA 8260C	95
Volatile Organics (6-10 analytes)	EPA 8260C	100
Volatile Organics – each additional analyte	EPA 8260C	10
Low level EPA 5035 Sample Kit [2]	EPA 5035A	10
Vinyl Chloride [3] – low level (water 0.020 ppb/soil 0.050 ppb)	EPA 8260C/SIM	120
Vinyl Chloride [3] (water 0.020 ppb/soil 0.050 ppb) when analyzed concurrently with EPA 8260C	EPA 8260C/SIM	40
Semivolatile Organics (SVOCs)	EPA 8270D	320
Semivolatile Organics (with low level PAHs)	EPA 8270D/SIM	360
Semivolatile Organics – TIC Scan [1]	EPA 8270D	60
Semivolatile Organics (SVOCs) – single analyte	EPA 8270D	140
Semivolatile Organics (SVOCs) – 2-5 analytes	EPA 8270D	150
Semivolatile Organics (SVOCs) – 6-10 analytes	EPA 8270D	160
Semivolatile Organics – each additional analyte	EPA 8270D	10
Polynuclear Aromatic Hydrocarbons (PAHs)	EPA 8270D	170
PAHs or cPAHs- low levels	EPA 8270D/SIM	190
1,4-Dioxane	EPA 8270D	160
Pentachlorophenol (PCP)	EPA 8270D	140
PAHs (low levels) and PCP	EPA 8270D/SIM	230
Organophosphorus Pesticides	EPA 8270D/SIM	200
Creosote Compounds (PAHs, PCP, Cresols)	EPA 8270D/SIM	250

[1] *Following full analysis.*

[2] *EPA 5035A low level sample kit consists of three pre-weighted and labeled 40ml VOA vials, including two with a stir bar.*

[3] *Other analytes are available at these lower reporting limits. Please contact your project manager for details.*

Organic Compounds by GC

Analysis	Method	Price
Volatile Aromatic Organics (BTEX) [2]	EPA 8021B	70
Volatile Fuel Hydrocarbons (Gas/BTEX) [2]	EPA 8015/8021B	75
BTEX and MTBE [1,2]	EPA 8021B	75
BTEX, N-Hexane and MTBE [1,2]	EPA 8021B	80
PCBs (as Aroclors)		
Soil/Water	EPA 8082A	90
Wipes/Bulk	EPA 8082A	60
Product/Oil	EPA 8082A	50
Organochlorine Pesticides	EPA 8081B	120
Chlorinated Acid Herbicides	EPA 8151A	170
Pentachlorophenol (PCP) – low level	EPA 8151A	150
Ethylene Glycol	EPA 8015M	110
Dissolved Gases	RSK 175	115
EDB/DBCP – low levels	EPA 8011	95

Air Analyses by GC and GC/MS [3]

Analysis	Method	Price
Gasoline Range Hydrocarbons	EPA 8015	100
Gasoline Range Hydrocarbons with BTEX	EPA 8015/8021B	105
BTEX	EPA 8021B	100
BTEX	EPA 8260C	125
BTEX and MTBE	EPA 8260C	130
Volatile Organics	EPA 8260C	200
Halogenated Volatile Organics	EPA 8260C	140
Volatile Organics - single analyte	EPA 8260C	120

[1] *Method 8021B is recommended only for the qualitative indication of the presence or absence of MTBE. Any detectable results should be confirmed by GC/MS because MTBE often coelutes with common gasoline components.*

[2] *For soil analyses, the price includes the cost of an EPA 5035A sample kit.*

[3] *Holding time is 3 days. Tedlar bags are provided at no charge.*

Analysis	Method	Price
Sample Preparation (including filtration)	EPA 3000 Series	15
Drinking Water Sample Preparation	EPA 200.8	10
ICP Metals (per metal)	EPA 6010D/200.7	12
ICP-MS Metals (per metal)	EPA 6020B/200.8	20
Mercury by Cold Vapor AA	EPA 7470A/7471B/245.1	30[1]
Low-level Mercury (water) – 25 ng/L (ppt)	EPA 7470A/245.1	60[1]
Hexavalent Chromium		
Soil (DI water extraction)	EPA 7196A	50[1]
Water	SM 3500-Cr B	40[1]
Ferrous Iron	SM 3500-Fe B	55

TRACE METALS PACKAGE PRICES *(These prices include all sample preparation costs. Prices may vary depending on project specific detection limit requirements.)*

MTCA Metals (5 analytes) (As,Cd,Cr,Hg,Pb)	EPA 6010D/6020B/200.7/200.8 245.1/7470A/7471B	
Soil		90
Water		100
RCRA Metals (8 analytes) (Ag,As,Ba,Cd,Cr,Hg,Pb,Se)	EPA 6010D/6020B/200.7/200.8 245.1/7470A/7471B	
Soil		110
Water		130
Priority Pollutant Metals (13 analytes) (Ag,As,Be,Cd,Cr,Cu,Hg,Ni,Pb,Sb,Se,Tl,Zn)	EPA 6010D/6020B/200.7/200.8 245.1/7470A/7471B	
Soil		170
Water		170
Target Analyte List (TAL) Metals (23 analytes) (Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,Hg,K, Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn)	EPA 6010D/6020B/200.7/200.8 245.1/7470A/7471B	
Soil		240
Water		270

TRACE METALS LIST:

Aluminum	**Al**	Chromium	**Cr**	Molybdenum	**Mo**	Thallium	**Tl**
Antimony	**Sb**	Cobalt	**Co**	Nickel	**Ni**	Tin	**Sn**
Arsenic	**As**	Copper	**Cu**	Potassium	**K**	Titanium	**Ti**
Barium	**Ba**	Iron	**Fe**	Selenium	**Se**	Vanadium	**V**
Beryllium	**Be**	Lead	**Pb**	Silica	**SiO_2**	Zinc	**Zn**
Boron	**B**	Magnesium	**Mg**	Silver	**Ag**		
Cadmium	**Cd**	Manganese	**Mn**	Sodium	**Na**		
Calcium	**Ca**	Mercury	**Hg**	Strontium	**Sr**		

[1] *Price includes sample preparation cost.*
Please note that pricing assumes the achievement of MTCA Method A cleanup levels.

Analysis	Method	Price
WASHINGTON TPH METHODS		
Hydrocarbon Identification	NWTPH-HCID	50
Gasoline Range Organics [2]	NWTPH-Gx	70
Diesel and Heavy Oil Range Organics [1]	NWTPH-Dx	75
Acid/Silica Gel Cleanup (after initial analysis)	EPA 3630C/NWTPH-Dx	40
Gasoline Range Organics/BTEX [2]	NWTPH-Gx/EPA 8021B	75
Gasoline Range Organics/BTEX/MTBE [2]	NWTPH-Gx/EPA 8021B	85
Gasoline Range Organics/BTEX [3]	NWTPH-Gx/EPA 8260C	110
Gasoline Range Organics/BTEX/MTBE [3]	NWTPH-Gx/EPA 8260C	115
Gasoline Range Organics/BTEX/MTBE/EDB/EDC [3]	NWTPH-Gx/EPA 8260C	120
Gasoline Range Organics/BTEX plus Gasoline additives/oxygenates [3,4]	NWTPH-Gx/EPA 8260C	130
BTEX [2]	EPA 8021B	70
Gasoline additives/oxygenates [3,4]	EPA 8260C	100
WASHINGTON FRACTIONATION METHODS		
Volatile Petroleum Hydrocarbons (VPH) [2]	VPH	120
VPH with targeted VOCs by GC [2]	VPH/EPA 8021B	140
Extractable Petroleum Hydrocarbons (EPH)	EPH	200
EPH with targeted SVOCs by GC/MS	EPH/EPA 8270D/SIM	340
E-TPH with all targeted compounds	VPH/EPH/EPA 8021B/8270D/SIM	430

[1] *Price includes acid/silica gel cleanup (EPA 3630C), if requested with initial analysis.*
[2] *For soil analyses, the price includes the cost of an EPA 5035A sample kit, if required.*
[3] *For soil analyses, a low-level EPA 5035A sample kit may be required.*
[4] *EDB, EDC, MTBE, TBA, TAME, and ETBE*

Analysis	Method	Price
Corrosivity (pH)	EPA 9045D	20
Corrosivity to steel [1]	EPA 1110	110
Ignitability - Liquids (Flash Point)	EPA 1010A	40
Ignitability - Solids [1]	EPA 1030	80
Reactive Cyanide [1]	SW-846 7.3.3.2	80
Reactive Sulfide [1]	SW-846 7.3.4.2	80
Total Cyanide [1]	EPA 9012B	55
Total Sulfide [1]	EPA 9030B	45
Total Halogens (TX) [1]	EPA 9076	55
Paint Filter Liquids	EPA 9095	20

TOXICITY CHARACTERISTIC (TCLP) AND SYNTHETIC PRECIPITATION (SPLP) LEACHING PROCEDURES		
TCLP/SPLP Extraction	EPA 1311/1312	80
TCLP/SPLP Extraction - Multiphasic Samples	EPA 1311/1312	100
TCLP/SPLP Zero Headspace Extraction (ZHE)	EPA 1311/1312	100
TCLP/SPLP ZHE - Multiphasic Samples	EPA 1311/1312	130
Sample Grinding/Cutting/Crushing		20

ANALYSES ON TCLP OR SPLP LEACHATE		
Volatile Organics (12 analytes)	EPA 8260C	150
Semivolatile Organics (13 analytes)	EPA 8270D	320
Benzene	EPA 8021B/8260C	65
Metals (8 analytes)	EPA 6010D/7470A	110
Organochlorine Pesticides (7 analytes)	EPA 8081B	100
Chlorinated Acid Herbicides (2 analytes)	EPA 8151A	150
TCLP Complete List (40 CFR 261) with extraction	EPA 8260/8270/6010/ 7470/8081/8151	800

[1] *Subcontracted analysis.*

Marine Sediment Parameters (SMS Analyses)

Analysis [2]	Method	Price
Volatile Organics [3] (Dichlorobenzenes (2) and 1,2,4-Trichlorobenzene)	EPA 8260C	100
Semivolatile Organics - PAHs, Chlorinated Benzenes, Phthalate Esters, Ionizable Organic and Miscellaneous Extractable Compounds.	EPA 8270D/SIM	380
PCBs (as Aroclors)	EPA 8082A	90
Organochlorine Pesticides [3] (Hexachlorobutadiene and Hexachlorobenzene)	EPA 8081B	110
Metals (8 analytes) (Ag,As,Cd,Cr,Cu,Hg,Pb,Zn)	EPA 6010D/6020B/7471B	110
Ammonia	Plumb 1981/EPA 350.3	50
Grain Size [1] Sieve/pipet Sieve/pipet and hydrometer	 ASTM D422 ASTM D422	 60 120
Total Solids	SM2540G	20
Total Organic Carbon	EPA 9060A	60
Total Sulfides [1]	Plumb 1981/EPA 9030B	45
Acid Volatile Sulfides [1]	Aug 1991 draft	80
Dioxins/Furans [1]	EPA 1613/8290	720
Butyltin [1]	Krone	340

1 *Subcontracted analysis.*

2 *For other Site Specific Compounds, contact your project manager.*

3 *For samples with low TOC values and/or high percent moisture content, this method may be required to meet SMS sediment cleanup objective levels for the listed compounds.*

Analysis	Method	Water Price	Soil/Solid Price
Alkalinity	EPA 310.2/SM 2320B	20	---
Biochemical Oxygen Demand (BOD – 5 day) [1]	SM 5210B	55	---
Bromide [1]	EPA 300.0/EPA 9056	20	35
Chemical Oxygen Demand (COD) [1]	EPA 410.4	45	---
Chloride [2]	SM 4500-Cl	20	40
Conductivity	SM 2510B/EPA 9050A	20	30
Cyanide, Total [1]	EPA 335.4/EPA 9012B	55	55
Fluoride [2]	SM 4500-F	20	40
Hardness (calculation)	EPA 6010D/SM 2340B	40	---
Nitrogen			
Ammonia	SM 4500-NH3	20	50
Nitrite [2]	EPA 353.2	25	35
Nitrate [2]	EPA 353.2	35	50
Nitrate [2] (when also analyzing Nitrite)	EPA 353.2	20	35
Nitrate + Nitrite [2]	EPA 353.2	25	35
Total Kjeldahl (TKN) [1]	EPA 351.2/SM 4500-Norg	40	60
Oil and Grease			
n-Hexane Extractable Material (HEM)	EPA 1664A	75	---
HEM, Silica Gel Treated (non-polar)	EPA 1664A	95	---
HEM and Silica Gel Treated HEM	EPA 1664A	110	---
Particle Size Distribution (PSD) [1]	Laser Diffraction	80	---
pH	SM 4500-H/EPA 9045D	20	20
Phenols, Total [1]	EPA 420.4/9065	45	50
Phosphate, Ortho [2]	EPA 365.1	25	40
Phosphorus, Total [2]	EPA 365.1	35	50
Salinity [1]	SM 2520D	20	---
Solids			
Total Dissolved (TDS)	SM 2540C	20	---
Total Suspended (TSS)	SM 2540D	20	---
Total	SM 2540B	20	---
Total Volatile (TVS) [1]	SM 2540E/EPA 160.4	25	25
Settleable (SS)	SM 2540F	20	---
Sulfate [2]	ASTM D516-07	20	40
Sulfide [1]	SM 4500-S2/EPA 9030B	30	45
Total Halogens (TX) [1]	EPA 9076	55	55
Total Organic Carbon (TOC)	SM 5310B/EPA 9060A	45	60
Turbidity	EPA 180.1	20	---

1 *Subcontracted analysis.*

2 *Soils are prepared with a DI water extraction per section 10-2 in Methods of Soil Analysis (MSA).*

Analysis	EPA Method	Price
VOLATILE ORGANIC COMPOUNDS		
PowerStop® Handle [1]	5035A	15
EasyDraw® Syringes [1]	5035A	Included in analytical price
Field preservation kit – VOCs [2]	5035A	10
Field preservation kit – NWTPH-Gx [2]	5035A	Included in analytical price
SAMPLE PREPARATION		
Sample compositing – soil		4/container
Sample compositing – water		6/container
Sample sieving or grinding		5/sample
Multi-increment sampling (maximum 30 sub-samples)		25/analysis
CLEANUP PROCEDURES		
Silica Gel Cleanup	3630C	No Charge
Acid/Silica Gel Cleanup (with initial analysis)	3630C	No Charge
Sulfur Cleanup	3660B	No Charge
Florisil Cleanup	3620C	No Charge
Alumina Cleanup	3611B	No Charge

1 *Other soil collection devices are available. Contact your project manager for details.*

2 *We provide several different types of field preservation kits. Contact your project manager to discuss which is appropriate for your project.*

Waters

Parameter	Method	Container/Preservation & Storage	Number of Containers	Holding Time
ORGANICS				
Volatile Organic Compounds	EPA 8021/8260	40mL glass vial (VOA)/ HCl pH<2, ≤6°C	3	14 days to analyze
Semivolatile Organic Compounds	EPA 8270	1 liter amber/≤6°C	2	7 days to extract, 40 days to analyze after extraction
Chlorinated Pesticides	EPA 8081	1 liter amber/≤6°C	2	7 days to extract, 40 days to analyze after extraction
Chlorinated Herbicides	EPA 8151	1 liter amber/≤6°C	2	7 days to extract, 40 days to analyze after extraction
Organophosphorus Pesticides	EPA 8270	1 liter amber/≤6°C	2	7 days to extract, 40 days to analyze after extraction
PCBs	EPA 8082	1 liter amber/≤6°C	2	None
EDB	EPA 8011	40mL glass vial (VOA)/ HCl pH<2, ≤6°C	2	14 days to analyze
Dissolved Gases	RSK 175	40mL glass vial (VOA)/ HCl pH<2, ≤6°C	2	14 days to analyze
Glycols	EPA 8015M	40mL glass vial (VOA)/≤6°C	2	7 days to analyze
Dioxins/Furans	EPA 1613	1 liter amber/≤6°C	2	1 year to analyze
UST PARAMETERS				
Hydrocarbon Identification	NWTPH-HCID	500mL amber/40mL glass vial (VOA)/HCl pH<2, ≤6°C	2 each	14 days to analyze
Gasoline Range Organics	NWTPH-Gx	40mL glass vial (VOA)/ HCl pH<2, ≤6°C	3	14 days to analyze
Volatile Petroleum Hydrocarbons	VPH	40mL glass vial (VOA)/ HCl pH<2, ≤6°C	3	14 days to analyze
Diesel Range Organics	NWTPH-Dx	500mL amber/HCl pH<2, ≤6°C	2	14 days to extract, 40 days to analyze after extraction
Extractable Petroleum Hydrocarbons	EPH	1 liter amber/HCl pH<2, ≤6°C	2	14 days to extract, 40 days to analyze after extraction
TRACE METALS				
Metals (except Mercury) total/dissolved - field filter	EPA 200.7/200.8	500mL HDPE/HNO3 pH<2, ≤6°C	1	6 months to analyze
Metals (except Mercury) dissolved - lab filtered	EPA 200.7/200.8	500mL HDPE/≤6°C	1	6 months to analyze
Mercury - total/dissolved - field filter	EPA 7470/245.1	500mL HDPE/HNO3 pH<2, ≤6°C	1	28 days to analyze
Mercury - dissolved - lab filter	EPA 7470/245.1	500mL HDPE/≤6°C	1	28 days to analyze
Hexavalent Chromium	SM 3500-Cr	500mL HDPE/≤6°C	1	24 hours to analyze
Ferrous Iron	SM 3500-Fe	250mL amber/HCl pH<2, 4°C No headspace	1	24 hours to analyze

HDPE - *High-Density Polyethylene*

Parameter	Method	Container/Preservation & Storage	Number of Containers	Holding Time
GENERAL CHEMISTRY				
Alkalinity	SM 2320B	250mL HDPE/≤6°C	1	14 days to analyze
Biochemical Oxygen Demand	SM 5210B	1 liter HDPE/≤6°C	1	48 hours to analyze
Bromide	EPA 300.0	250mL HDPE	1	28 days to analyze
Chemical Oxygen Demand	EPA 410.4	250mL HDPE/H_2SO_4 pH<2, ≤6°C	1	28 days to analyze
Chloride	SM 4500-Cl	250mL HDPE	1	28 days to analyze
Conductivity	SM 2510B	250mL HDPE/≤6°C	1	28 days to analyze
Cyanide, Total	EPA 335.4	250mL HDPE/NaOH pH>12, ≤6°C	1	14 days to analyze
Fluoride	SM 4500-F	250mL HDPE	1	28 days to analyze
Hardness	SM 2340B	500mL HDPE/HNO3 pH<2, ≤6°C	1	6 months to analyze
Nitrogen, Ammonia	SM 4500-NH3	250mL HDPE/H_2SO_4 pH<2, ≤6°C	1	28 days to analyze
Nitrogen, Nitrite	EPA 353.2	250mL HDPE/≤6°C	1	48 hours to analyze
Nitrogen, Nitrate	EPA 353.2	250mL HDPE/≤6°C	1	48 hours to analyze
Nitrogen, Nitrate + Nitrite	EPA 353.2	250mL HDPE/H_2SO_4 pH<2, ≤6°C	1	28 days to analyze
Nitrogen, Total Kjeldahl (TKN)	EPA 351.2	250mL HDPE/H_2SO_4 pH<2, ≤6°C	1	28 days to analyze
Oil and Grease (HEM)	EPA 1664	1 liter CWM/HCl pH<2, ≤6°C	2	28 days to analyze
Particle Size Distribution (PSD)	Laser Diffraction	500mL HDPE, ≤6°C	1	None
pH	SM 4500-H	60mL HDPE	1	Analyze immediately
Phenols, Total	EPA 420.4	250ml amber/H_2SO_4 pH<2, ≤6°C	1	28 days to analyze
Phosphate, Ortho	EPA 365.1	250mL HDPE/≤6°C	1	48 hours to analyze
Phosphorus, Total	EPA 365.1	250mL HDPE/H_2SO_4 pH<2, ≤6°C	1	28 days to analyze
Salinity	SM 2520B	500mL HDPE	1	28 days to analyze
Solids, Total Dissolved (TDS)	SM 2540C	250mL HDPE/≤6°C	1	7 days to analyze
Solids, Total Suspended (TSS)	SM 2540D	250mL HDPE/≤6°C	1	7 days to analyze
Solids, Total	SM 2540B	1 liter HDPE/≤6°C	1	7 days to analyze
Solids, Total Volatile (TVS)	SM 2540E	250mL HDPE/≤6°C	1	7 days to analyze
Solids, Settleable (SS)	SM 2540F	1 liter HDPE/≤6°C	1	48 hours to analyze
Sulfate	ASTM D516-07	250mL HDPE/≤6°C	1	28 days to analyze
Sulfide	SM 4500-S2	500mL HDPE/Add Zinc Acetate NaOH pH>9, ≤6°C	1	7 days to analyze
Total Halogens (TX)	EPA 9076	500mL HDPE/H_2SO_4 pH<2, ≤6°C	1	28 days to analyze
Total Organic Carbon (TOC)	SM 5310B	250mL HDPE/HCl pH<2, ≤6°C	1	28 days to analyze
Turbidity	EPA 180.1	250mL HDPE/≤6°C	1	48 hours to analyze

HDPE - *High-Density Polyethylene*

Soils/Solids

Parameter	Method	Container/Preservative and Storage	Number of Containers	Holding Time
ORGANICS				
Volatile Organic Compounds [1]	EPA 8021/8260	4 oz. CWM, ≤6°C field preservation kit	1	14 days to analyze
Semivolatile Organic Compounds	EPA 8270	4 oz. CWM, ≤6°C	1	14 days to extract, 40 days to analyze after extraction
Chlorinated Pesticides	EPA 8081	4 oz. CWM, ≤6°C	1	14 days to extract, 40 days to analyze after extraction
Chlorinated Herbicides	EPA 8151	4 oz. CWM, ≤6°C	1	14 days to extract, 40 days to analyze after extraction
Organophosphorus Pesticides	EPA 8270	4 oz. CWM, ≤6°C	1	14 days to extract, 40 days to analyze after extraction
PCBs	EPA 8082	4 oz. CWM, ≤6°C	1	None
Dioxins/Furans	EPA 1613	4 oz. CWM, ≤6°C	1	1 year to analyze
UST PARAMETERS				
Hydrocarbon Identification [1]	NWTPH-HCID	4 oz. CWM, ≤6°C field preservation kit	1	14 days to extract, 40 days to analyze after extraction
Gasoline Range Organics [1]	NWTPH-Gx	4 oz. CWM, ≤6°C field preservation kit	1	14 days to analyze
Volatile Petroleum Hydrocarbons [1]	VPH	4 oz. CWM, ≤6°C field preservation kit	1	14 days to analyze
Diesel Range Organics	NWTPH-Dx	4 oz. CWM, ≤6°C	1	14 days to extract, 40 days to analyze after extraction
Extractable Petroleum Hydrocarbons	EPH	4 oz. CWM, ≤6°C	1	14 days to extract, 40 days to analyze after extraction
TRACE METALS				
Metals (except Mercury)	EPA 6010/6020	4 oz. CWM, ≤6°C	1	6 months to analyze
Mercury	EPA 7471	4 oz. CWM, ≤6°C	1	28 days to analyze
Hexavalent Chromium	EPA 7196	4 oz. CWM, ≤6°C	1	30 days to analyze

CWM - *Clear Wide Mouth Jar*

[1] *Contact your project manager for field preservation kit options.*

Soils/Solids

Parameter	Method	Container/Preservative and Storage	Number of Containers	Holding Time
GENERAL CHEMISTRY				
Bromide	EPA 9056	4 oz. CWM, ≤6°C	1	7 days to analyze
Chloride	SM 4500-Cl	4 oz. CWM, ≤6°C	1	28 days to analyze
Conductivity	EPA 9050	4 oz. CWM, ≤6°C	1	28 days to analyze
Cyanide, Total	EPA 9012	4 oz. CWM, ≤6°C	1	14 days to analyze
Fluoride	SM 4500-F	4 oz. CWM, ≤6°C	1	28 days to analyze
Nitrogen, Ammonia	SM 4500-NH3	4 oz. CWM, ≤6°C	1	7 days to analyze
Nitrogen, Nitrite	EPA 353.2	4 oz. CWM, ≤6°C	1	7 days to analyze
Nitrogen, Nitrate	EPA 353.2	4 oz. CWM, ≤6°C	1	7 days to analyze
Nitrogen, Nitrate + Nitrite	EPA 353.2	4 oz. CWM, ≤6°C	1	7 days to analyze
Nitrogen, Total Kjeldahl (TKN)	SM 4500-Norg	4 oz. CWM, ≤6°C	1	28 days to analyze
pH	EPA 9045	4 oz. CWM, ≤6°C	1	Analyze immediately
Phenols, Total	EPA 9065	4 oz. CWM, ≤6°C	1	28 days to analyze
Phosphate, Ortho	EPA 365.1	4 oz. CWM, ≤6°C	1	28 days to analyze
Phosphorus, Total	EPA 365.1	4 oz. CWM, ≤6°C	1	28 days to analyze
Solids, Total	SM 2540G	4 oz. CWM, freeze	1	6 months to analyze
Solids, Total Volatile (TVS)	SM 2540E	4 oz. CWM, freeze	1	6 months to analyze
Sulfate	ASTM D516-07	4 oz. CWM, ≤6°C	1	28 days to analyze
Sulfide	EPA 9030	4 oz. CWM, Add Zinc Acetate, ≤6°C	1	7 days to analyze
Total Halogens (TX)	EPA 9076	4 oz. CWM, ≤6°C	1	28 days to analyze
Total Organic Carbon (TOC)	EPA 9060	4 oz. CWM, ≤6°C	1	28 days to analyze

CWM - *Clear Wide Mouth Jar*

Contact Information

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Location Map