



Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Centralized Request for Quote  
 Laboratory

RECEIVED

2021 JAN 19 AM 9:02

WV PURCHASING  
 DIVISION

<b>Proc Folder:</b> 819530			<b>Reason for Modification:</b> Addendum#1 issued to provide assistance submitting bids through Oasis for Catalog Line Type.
<b>Doc Description:</b> Inorganic and Organic Analysis Services			
<b>Proc Type:</b> Central Master Agreement			
<b>Date Issued</b>	<b>Solicitation Closes</b>	<b>Solicitation No</b>	<b>Version</b>
2021-01-15	2021-01-19 13:30	CRFQ 0313 DEP2100000017	2

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

**Vendor Customer Code:** 224908  
**Vendor Name :** ALS Group USA, Corp dba ALS Environmental  
**Address :** PO Box 975444  
**Street :** 10450 Stancliff Rd, Suite 210  
**City :** Houston  
**State :** TX **Country :** US **Zip :** 77099  
**Principal Contact :** Rebecca Kiser  
**Vendor Contact Phone:** 304-356-3168 **Extension:**

**FOR INFORMATION CONTACT THE BUYER**  
 Joseph E Hager III  
 (304) 558-2306  
 joseph.e.hageriii@wv.gov

**Vendor Signature X** *Rebecca Kiser* **FEIN#** 76-0606679 **DATE** 01.19.21

All offers subject to all terms and conditions contained in this solicitation

<b>ADDITIONAL INFORMATION</b>
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Addendum

Addendum #1 issued to publish the attached documentation to the vendor community

\*\*\*\*\*

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Department of Environmental Protection to establish an open-end contract for Inorganic and Organic Analysis Services. The Agency is combining two contracts, Inorganic Analysis and Organic Analysis, into one contract per the specifications and terms and conditions attached hereto.

INVOICE TO	SHIP TO
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER	VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER
No City    WV    99999 US	No City    WV    99999 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Analysis Services	0.00000			

Comm Code	Manufacturer	Specification	Model #
81102600			

**Extended Description:**  
 Analysis Services as outlined on the attached bid sheet.

<b>SCHEDULE OF EVENTS</b>
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<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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	Document Phase	Document Description	Page 3
DEP2100000017	Final	Inorganic and Organic Analysis Services	

**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CRFQ DEP21\*17**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

*ALS Group USA Corp*

\_\_\_\_\_  
Company

*Rebecca Kiser*

\_\_\_\_\_  
Authorized Signature

*01.19.21*

\_\_\_\_\_  
Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.  
Revised 6/8/2012



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 Purchasing Division  
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2020-12-22	2021-01-19 13:30	CRFQ 0313 DEP2100000017	1

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 BID CLERK  
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 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

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**Address :** PO Box 975444  
**Street :** 10450 Stancliff Rd Suite 210  
**City :** Houston  
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**Principal Contact :** Rebecca Kiser  
**Vendor Contact Phone:** 304-356-3168 **Extension:**

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	Document Phase	Document Description	Page 3
DEP2100000017	Final	Inorganic and Organic Analysis Services	

**ADDITIONAL TERMS AND CONDITIONS**

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**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Rebecca Kiser, Laboratory Supervisor  
(Name, Title)  
Rebecca Kiser, Laboratory Supervisor  
(Printed Name and Title)  
1740 Union Carbide Dr, South Charleston, WV 25303  
(Address)  
304-356-3168  
(Phone Number) / (Fax Number)  
rebecca.kiser@alsglobal.com  
(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

ALS Group USA Corp, dba ALS Environmental  
(Company)

Rebecca Kiser Rebecca Kiser, Lab Supervisor  
(Authorized Signature) (Representative Name, Title)

Rebecca Kiser, Laboratory Supervisor  
(Printed Name and Title of Authorized Representative)

01.14.2021  
(Date)

304.356.3168  
(Phone Number) (Fax Number)



## Attachment C

Item #	Parameter Description (with Matrix, Method, and/or Speciation)	Alias	Desired Matrix MDL	Method ID	Method Detection Limit	Practical Quantitation Limit	Unit Price	Yearly Est. Quantity	Extended Amount
<b>INORGANICS</b>									
<b>Physical/Wet Chemistry</b>									
1	Acidity, Cold	Acidity, Total	1 mg/L					25	\$0.00
1A	Acidity, Cold (Method: Alternate)	Acidity, Total						10	\$0.00
2	Acidity, Hot (as CaCO3)		5 mg/L	SM2310B	10mg/L	12mg/L	10	4000	\$40,000.00
2A	Acidity, Hot (Method: Alternate)							1000	\$0.00
3	Acidity, Mineral (as CaCO3)		1 mg/L					25	\$0.00
3A	Acidity, Mineral (Method: Alternate)							10	\$0.00
4	Alkalinity (as CaCO3)		5 mg/L	SM2320B	8.37mg/L	10mg/L	8	4000	\$32,000.00
4A	Alkalinity (Method: Alternate)							1000	\$0.00
5	Alkalinity, Bicarbonate (as CaCO3)		1 mg/L	SM2320B	8.37mg/L	10mg/L	8	20	\$160.00
6	Alkalinity, Carbonate (as CaCO3)		1 mg/L	SM2320B	8.37mg/L	10mg/L	8	20	\$160.00
7	Alkalinity, Phenolphthalein		2 mg/L					20	\$0.00
8	Bromide (High Level)			EPA300.0	0.032mg/L	0.2mg/L	10	25	\$250.00
9	Bromide (Low Level)			EPA300.0	0.032mg/L	0.2mg/L	10	10	\$100.00
10	Bromide (Solid)			SW9056A	0.32mg/kg	2mg/kg	14	10	\$140.00
11	Chloride (High Level)			SM4500Cl F	0.461mg/L	1mg/L	11	3000	\$33,000.00
12	Chloride (Low Level)			EPA300.0	0.31mg/L	1mg/L	8	100	\$800.00
13	Chloride (Solid)			SW9056A	8mg/kg	10mg/kg	11	10	\$110.00
14	Color (Method: ADMI)		10 ADMI value					25	\$0.00
15	Color (Method: APHA)		5 color units	SM2120B	NA	1p.c.u	14	25	\$350.00
16	Conductance, Specific	Lab Specific Conductance @ 25°C	3 uS/cm <sup>2</sup>	SM2510B	NA	5umhos/cm	6	1000	\$6,000.00
17	Conductance, Specific (Method: Alternate)	Lab Specific Conductance @ 25°C		SW9050A	NA	5umhos/cm	6	500	\$3,000.00
18	Fluoride (High Level)			EPA300.0	0.067mg/L	0.1mg/L	10	25	\$250.00
19	Fluoride (Low Level)			EPA300.0	0.067mg/L	0.1mg/L	10	10	\$100.00
20	Fluoride (Solid)			SW9056A	0.67mg/kg	1mg/kg	14	10	\$140.00
21	Oxygen Demand, Biological	BOD	1 mg/L	SM5210B	NA	2mg/L	18	25	\$450.00
21A	Oxygen Demand, Biological (Method: Alternate)	BOD						10	\$0.00
22	Oxygen Demand, Carbonaceous Biological	CBOD	1 mg/L	SM5210B	NA	2mg/L	20	25	\$500.00
22A	Oxygen Demand, Carbonaceous Biological (Method: Alternate)	CBOD						10	\$0.00
23	Oxygen Demand, Chemical	COD	0.5 mg/L	EPA410.4	2.95mg/L	5mg/L	15	25	\$375.00
23A	Oxygen Demand, Chemical (Method: Alternate)	COD						10	\$0.00
24	pH	Lab pH	SU	SW9040C	NA	0.02SU	5	4000	\$20,000.00
25	pH (Solid)			SW9045D	NA	0.1SU	6	10	\$60.00
26	Solids, Percent		1%	SM2540G	0.03%	0.05%	8	25	\$200.00
26A	Solids, Percent (Method: Alternate)							10	\$0.00
27	Solids, Percent (Solid)		1%	SM2540G	0%	0%	8%	10	\$0.80
28	Solids, Total Dissolved	TDS; Filterable Residue		SM2540C	11mg/L	15mg/L	10	3000	\$30,000.00
28A	Solids, Total Dissolved (Method: Alternate)	TDS; Filterable Residue						1000	\$0.00
29	Solids, Settleable			SM2540F	0.2ml/L/hr	0.2ml/L/hr	10	30	\$300.00
29A	Solids, Settleable (Method: Alternate)							30	\$0.00
30	Solids, Total Suspended	TSS; Non-Filterable Residue		SM2540D	0.38mg/L	0.6mg/L	10	4000	\$40,000.00
30A	Solids, Total Suspended (Method: Alternate)	TSS; Non-Filterable Residue						1000	\$0.00
31	Solids, Total Volatile			SM2540D	6mg/L	6mg/L	10	25	\$250.00
31A	Solids, Total Volatile (Method: Alternate)			EPA160.4	6mg/L	6mg/L	10	10	\$100.00
32	Solids, Total Volatile (Solid)			SM2540G	0.03%	0.05%	10	10	\$100.00
33	Solids, Total	Total Residue		SM2540B	17mg/L	17mg/L	8	25	\$200.00
33A	Solids, Total (Method: Alternate)	Total Residue						10	\$0.00
34	Solids, Total (Solid)	Total Residue		SM2540G	0.03%	0.05%	8	10	\$80.00
35	Sulfate	SO4	5 mg/L	EPA300.0	0.19mg/L	1mg/L	10	4000	\$40,000.00
35A	Sulfate (Method: Alternate)			SM4500SO4	0.71mg/L	1mg/L	10	1000	\$10,000.00
36	Sulfate (Solid)	SO5		SW9056A	0.57mg/kg	10mg/kg	12	10	\$120.00
37	Turbidity	Lab Turbidity		EPA180.1	0.04ntu	0.65mtu	12	20	\$240.00
37A	Turbidity (Method: Alternate)							10	\$0.00
<b>Metals</b>									
38	Aluminum (High Level)	Al		EPA200.7	0.01mg/L	0.01mg/L	4	4000	\$16,000.00
39	Aluminum (Low Level)	Al		EPA200.8	0.0057mg/L	0.01mg/L	6	100	\$600.00
40	Aluminum (Solid)	Al	40 mg/Kg	SW6020B	1.6mg/kg	2mg/kg	6	10	\$60.00
41	Barium (High Level)	Ba		EPA200.7	0.0043mg/L	0.05mg/L	4	20	\$80.00
42	Barium (Low Level)	Ba		EPA200.8	0.00057mg/l	0.005mg/L	6	10	\$60.00
43	Barium (Solid)	Ba	40 mg/Kg	SW6020B	0.23mg/kg	0.25mg/kg	6	10	\$60.00

## Attachment C

44	Beryllium (High Level)	Be		EPA200.7	0.00022mg/L	0.002mg/L	4	20	\$80.00
45	Beryllium (Low Level)	Be		EPA200.8	0.00013mg/L	0.002mg/L	6	10	\$60.00
46	Beryllium (Solid)	Be	1 mg/Kg	SW6020B	0.017mg/kg	0.1mg/kg	6	10	\$60.00
47	Cadmium (Low Level)	Cd		EPA200.8	0.00014mg/L	0.0002mg/L	6	200	\$1,200.00
48	Cadmium (High Level)	Cd		EPA200.7	0.00078mg/L	0.01mg/L	4	20	\$80.00
49	Cadmium (Solid)	Cd	1 mg/Kg	SW6020B	0.015mg/kg	0.1mg/kg	6	10	\$60.00
50	Calcium (High Level)	Ca		EPA200.7	0.39mg/L	0.5mg/L	4	500	\$2,000.00
51	Calcium (Low Level)	Ca		EPA200.8	0.221mg/L	0.5mg/L	6	20	\$120.00
52	Calcium (Solid)	Ca	1000 mg/Kg	SW6020B	12mg/kg	25mg/kg	6	10	\$60.00
53	Chromium (High Level)	Cr		EPA200.7	0.00093mg/L	0.005mg/L	4	20	\$80.00
54	Chromium (Low Level)	Cr		EPA200.8	0.00061mg/L	0.005mg/L	6	10	\$60.00
55	Chromium (Solid)	Cr	2 mg/Kg	SW6020B	0.11mg/kg	0.25mg/kg	6	10	\$60.00
56	Chromium, Hexavalent (High Level)	Chromium VI or Cr-VI		SM7196A	0.0029mg/L	0.005mg/L	40	200	\$8,000.00
57	Chromium, Hexavalent (Low Level)	Chromium VI or Cr-VI		EPA218.6	0.013ug/L	0.035ug/L	35	10	\$350.00
58	Chromium, Hexavalent (Solid)	Chromium VI or Cr-VI	0.017 mg/kg	SW7196A	0.85mg/kg	1 mg/kg	30	10	\$300.00
59	Cobalt (High Level)	Co		EPA200.7	0.00042mg/L	0.005mg/L	4	20	\$80.00
60	Cobalt (Low Level)	Co		EPA200.8	0.00027mg/L	0.005mg/L	6	10	\$60.00
61	Cobalt (Solid)	Co	10 mg/Kg	SW6020B	0.041mg/kg	0.25mg/kg	6	10	\$60.00
62	Copper (High Level)	Cu		EPA200.7	0.0046mg/L	0.01mg/L	4	200	\$800.00
63	Copper (Low Level)	Cu		EPA200.8	0.00099mg/L	0.005mg/L	6	20	\$120.00
64	Copper (Solid)	Cu	5 mg/Kg	SW6020B	0.25mg/kg	0.25mg/kg	6	10	\$60.00
65	Hardness			SM2340C	2.17mg/L	5mg/L	12	500	\$6,000.00
66	Hardness (Method: Alternate)			SM2340B	1.34mg/L	2.07mg/L	12	100	\$1,200.00
67	Hardness (Solid)							10	\$0.00
68	Iron (High Level)	Fe		EPA200.7	0.079mg/L	0.08mg/L	4	3000	\$12,000.00
69	Iron (Low Level)	Fe		EPA200.8	0.047mg/L	0.08mg/L	6	100	\$600.00
70	Iron (Solid)	Fe	20 mg/Kg	SW6020B	8mg/kg	10mg/kg	6	10	\$60.00
71	Iron, Ferrous (Method: SM)	Fe2+						25	\$0.00
72	Iron, Ferrous (Low Level)	Fe2+						10	\$0.00
73	Iron, Ferric	Fe3+						50	\$0.00
74	Lead (Low Level)	Pb		EPA200.8	0.00022mg/L	0.005mg/L	6	200	\$1,200.00
75	Lead (High Level)	Pb		EPA200.7	0.0013mg/L	0.005mg/L	4	10	\$40.00
76	Lead (Solid)	Pb	1 mg/Kg	SW6020B	0.12mg/kg	0.25mg/kg	6	10	\$60.00
77	Magnesium (High Level)	Mg		EPA200.7	0.09mg/L	0.2mg/L	4	500	\$2,000.00
78	Magnesium (Low Level)	Mg		EPA200.8	0.037mg/L	0.2mg/L	6	20	\$120.00
79	Magnesium (Solid)	Mg	1000 mg/Kg	SW6020B	7mg/kg	10mg/kg	6	10	\$60.00
80	Manganese (High Level)	Mn		EPA200.7	0.0023mg/L	0.005mg/L	4	3000	\$12,000.00
81	Manganese (Low Level)	Mn		EPA200.8	0.0017mg/L	0.005mg/L	6	100	\$600.00
82	Manganese (Solid)	Mn	3 mg/Kg	SW6020B	0.21mg/kg	0.25mg/kg	6	10	\$60.00
83	Mercury (High Level MDL)	Hg	0.0001 mg/L	EPA245.1	0.00016mg/L	0.0002mg/L	18	200	\$3,600.00
84	Mercury (Low Level MDL; Method SM 1631E or EPA 245.7)	Hg	0.2 ng/L	EPA1631E	0.2ng/L	0.5ng/L	45	200	\$9,000.00
85	Mercury (Solid-Low Level MDL; Method: EPA 245.5)	Hg	0.1 mg/kg	SW7471B	0.0136mg/kg	0.02mg/kg	18	10	\$180.00
86	Molybdenum (High Level)	Mo		EPA200.7	0.00036mg/L	0.005mg/L	4	20	\$80.00
87	Molybdenum (Low Level)	Mo		EPA200.8	0.00033mg/L	0.005mg/L	6	10	\$60.00
88	Molybdenum (Solid)	Mo	8 mg/Kg	SW6020B	0.049mg/kg	0.25mg/kg	6	10	\$60.00
89	Nickel (High Level)	Ni		EPA200.7	0.00072mg/L	0.005mg/L	4	200	\$800.00
90	Nickel (Low Level)	Ni		EPA200.8	0.00085mg/L	0.005mg/L	6	20	\$120.00
91	Nickel (Solid)	Ni	8 mg/Kg	SW6020B	0.13mg/kg	0.25mg/kg	6	10	\$60.00
92	Potassium (High Level)	K		EPA200.7	0.16mg/L	0.2mg/L	4	500	\$2,000.00
93	Potassium (Low Level)	K		EPA200.8	0.034mg/L	0.2mg/L	6	20	\$120.00
94	Potassium (Solid)	K	1000 mg/Kg	SW6020B	4.2mg/kg	10mg/kg	6	10	\$60.00
95	Silver (Low Level)	Ag		EPA200.8	0.00026mg/L	0.005mg/L	6	200	\$1,200.00
96	Silver (High Level)	Ag		EPA200.7	0.0025mg/L	0.005mg/L	4	20	\$80.00
97	Silver (Solid)	Ag	2 mg/Kg	SW6020B	0.033mg/kg	0.25mg/kg	6	10	\$60.00
98	Sodium (High Level)	Na		EPA200.7	0.26mg/L	0.5mg/L	4	500	\$2,000.00
99	Sodium (Low Level)	Na		EPA200.8	0.129mg/L	0.2mg/L	6	20	\$120.00
100	Sodium (Solid)	Na	1000 mg/Kg	SW6020B	13.4mg/kg	15mg/kg	6	10	\$60.00
101	Strontium (High Level)	Sr		EPA200.7	0.0012mg/L	0.005mg/L	4	200	\$800.00
102	Strontium (Low Level)	Sr		EPA200.8	0.00039mg/L	0.005mg/L	6	20	\$120.00
103	Thallium (High Level)	Th		EPA200.7	0.0026mg/L	0.01mg/L	4	20	\$80.00
104	Thallium (Low Level)	Th		EPA200.8	0.00032mg/L	0.005mg/L	6	10	\$60.00
105	Thallium (Solid)	Th	2 mg/Kg	SW6020B	0.039mg/kg	0.25mg/kg	6	10	\$60.00
106	Tin (High Level)	Sn		EPA200.7	0.01mg/L	0.01mg/L	4	20	\$80.00

Attachment C

107	Tin (Low Level)	Sn		EPA200.8	0.0013mg/L	0.005mg/L	6	10	\$60.00
108	Tin (Solid)	Sn		SW6020B	0.059mg/kg	0.1mg/kg	6	10	\$60.00
109	Vanadium (High Level MDL)	Va		EPA200.7	0.00094mg/L	0.005mg/L	4	20	\$80.00
110	Vanadium (Low Level MDL)	Va		EPA200.8	0.0007mg/L	0.005mg/L	6	10	\$60.00
111	Vanadium (Solid)	Va	4 mg/Kg	SW6020B	0.064mg/kg	0.25mg/kg	6	10	\$60.00
112	Zinc (High Level)	Zn		EPA200.7	0.0062mg/L	0.01mg/L	4	200	\$800.00
113	Zinc (Low Level)	Zn		EPA200.8	0.0022mg/L	0.01mg/L	6	20	\$120.00
114	Zinc (Solid)	Zn	2 mg/Kg	SW6020B	0.49mg/kg	0.5mg/kg	6	10	\$60.00
<b>Metals Prep</b>									
115	Metals Prep Cost (Methods: 200.7, 200.8, 6010, 6020, 3114)		N/A		N/A	N/A	8	2000	\$16,000.00
116	Metals Prep Cost (Solid-Methods: 200.7, 200.8, 6010, 6020, 3114)		N/A		N/A	N/A	8	100	\$800.00
<b>Non-Metals</b>									
117	Antimony (High Level)	Sb		EPA200.7	0.0018mg/L	0.005mg/L	4	20	\$80.00
118	Antimony (Low Level)	Sb		EPA200.8	0.00042mg/L	0.005mg/L	6	10	\$60.00
119	Antimony (Solid)	Sb	12 mg/Kg	SW6020B	0.067mg/kg	0.25mg/kg	6	10	\$60.00
120	Arsenic (High Level)	As		EPA200.7	0.0016mg/L	0.005mg/L	4	20	\$80.00
121	Arsenic (Low Level)	As		EPA200.8	0.00019mg/L	0.005mg/L	6	10	\$60.00
122	Arsenic (Solid)	As	2 mg/Kg	SW6020B	0.03mg/kg	0.25mg/kg	6	10	\$60.00
123	Boron (High Level)	B		EPA200.7	0.0041mg/L	0.02mg/L	4	20	\$80.00
124	Boron (Low Level)	B		EPA200.8	0.0154mg/L	0.02mg/L	6	10	\$60.00
125	Boron (Solid)	B		SW6020B	0.94mg/kg	1mg/kg	6	10	\$60.00
126	Chlorine, Total Residual	Free + Combined/Available Chlorine		SM4500CLC	0.025mg/L	0.2mg/L	8	20	\$160.00
127	Selenium (High Level)	Se		EPA200.7	0.0032mg/L	0.01mg/L	4	500	\$2,000.00
128	Selenium (Low Level)	Se		EPA200.8	0.00048mg/L	0.005mg/L	6	20	\$120.00
129	Selenium (Solid)	Se	1 mg/Kg	SW6020B	0.23mg/kg	0.25mg/kg	6	10	\$60.00
130	Silicon	Si						20	\$0.00
131	Silica	Silicon Dioxide (SiO2)						25	\$0.00
132	Silica (Solid)	Silicon Dioxide (SiO2)	20 mg/Kg					20	\$0.00
133	Sulfite	SO3	2 mg/L					15	\$0.00
134	Sulfide	S2-	1 mg/L	SM4500S F	0.42mg/L	1mg/L	15	20	\$300.00
134A	Sulfide (Method: Alternate)	S2-		SW9034	0.42mg/L	1mg/L	15	10	\$150.00
<b>Nutrients</b>									
135	Nitrogen, Ammonia (as N)		0.02 mg/L	M4500NH3	0.091mg/L	0.15mg/L	14	50	\$700.00
135A	Nitrogen, Ammonia (as N) (Method: Alternate)			EPA350.1	0.01mg/L	0.02mg/L	14	10	\$140.00
136	Nitrogen, Ammonia (as N) (Solid)			SM4500NH3	3.95mg/kg	15mg/kg	15	10	\$150.00
136A	Nitrogen, Ammonia (as N) (Solid-Method: Alternate)							10	\$0.00
137	Nitrogen, Organic (as N)		0.5 mg/L	CALC	NA	NA	30	50	\$1,500.00
137A	Nitrogen, Organic (as N) (Method: Alternate)							10	\$0.00
138	Nitrogen, Total Kjeldahl (as N)	TKN; Organic Nitrogen + Ammonia	0.05 mg/L	M4500NH3	0.87mg/L	1mg/L	15	400	\$6,000.00
138A	Nitrogen, Total Kjeldahl (as N) (Method: Alternate)	TKN; Organic Nitrogen + Ammonia						100	\$0.00
139	Nitrogen, Total Kjeldahl (as N) (Solid)	TKN; Organic Nitrogen + Ammonia		SM4500NH3	30.6mg/kg	100mg/kg	15	10	\$150.00
139A	Nitrogen, Total Kjeldahl (as N) (Solid-Method: Alternate)	TKN; Organic Nitrogen + Ammonia						10	\$0.00
140	Nitrogen, Nitrate (NO3 as N)		0.01 mg/L	EPA353.2	0.012mg/L	0.02mg/L	12	50	\$600.00
140A	Nitrogen, Nitrate (NO3 as N) (Method: Alternate)			SM4500NO3	0.012mg/L	0.02mg/L	12	10	\$120.00
141	Nitrogen, Nitrite (NO2 as N)		0.01 mg/L	M4500NO2	0.012mg/L	0.05mg/L	12	50	\$600.00
141A	Nitrogen, Nitrite (NO2 as N) (Method: Alternate)			EPA353.2	0.006mg/L	0.02mg/L	12	10	\$120.00
142	Nitrogen, Nitrite (NO2 as N) (Solid)			SW9056A	0.165mg/kg	1mg/kg	15	10	\$150.00
142A	Nitrogen, Nitrite (NO2 as N) (Solid-Method: Alternate)							10	\$0.00
143	Nitrogen, Nitrate + Nitrite (NO3+NO2 as N)	Nitrate-Nitrite-Nitrogen	0.01 mg/L	EPA353.2	0.012mg/L	0.02mg/L	12	400	\$4,800.00
143A	Nitrogen, Nitrate + Nitrite (NO3+NO2 as N) (Method: Alternate)	Nitrate-Nitrite-Nitrogen						100	\$0.00
144	Nitrogen, Nitrate + Nitrite (NO3+NO2 as N) (Solid)	Nitrate-Nitrite-Nitrogen		EPA353.2	0.12mg/kg	0.2mg/kg	15	10	\$150.00
144A	Nitrogen, Nitrate + Nitrite (NO3+NO2 as N) (Solid-Method: Alternate)	Nitrate-Nitrite-Nitrogen		SW9056A	0.165mg/kg	1mg/kg	15	10	\$150.00
145	Phosphorus, Orthophosphate (as P)	Inorganic Phosphorus	0.01 mg/L	EPA365.1	0.015mg/L	0.05mg/L	12	50	\$600.00
145A	Phosphorus, Orthophosphate (as P) (Method: Alternate)	Inorganic Phosphorus						10	\$0.00
146	Phosphorus, Total (Mixed Forms; P as P)		0.003 mg/L	EPA365.1	0.032mg/L	0.05mg/L	10	400	\$4,000.00
146A	Phosphorus, Total (Mixed Forms; P as P) (Method: Alternate)							100	\$0.00
147	Phosphorus, Total (Mixed Forms; P as P) (Solid)			EPA365.1	0.92mg/L	5mg/L	12	10	\$120.00

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147A	Phosphorus, Total (Mixed Forms; P as P) (Solid-Method: Alternate)							10	\$0.00
148	Phosphorus, Total Phosphate (Mixed Forms; P as PO4)	Phosphate-Phosphorus	0.01 mg/L					50	\$0.00
148A	Phosphorus, Total Phosphate (Mixed Forms; P as PO4) (Method: Alternate)	Phosphate-Phosphorus						10	\$0.00
149	Phosphorus, Total Phosphate (Mixed Forms; P as PO4) (Solid)	Phosphate-Phosphorus						10	\$0.00
149A	Phosphorus, Total Phosphate (Mixed Forms; P as PO4) (Solid-Method: Alternate)	Phosphate-Phosphorus						10	\$0.00
<b>Microbiological</b>									
150	Enterococci	Enterococcus						100	\$0.00
151	Escherichia coli (Method: MF)		1 col/100 mL	HACH10029	.33cfu/100ml	3.33cfu/100ml	20	25	\$500.00
151A	Escherichia coli (Method: Alternate)							10	\$0.00
152	Coliform, Fecal (Method: MF)		4 col/100 mL	SM9222D	.33cfu/100ml	3.33cfu/100ml	18	4000	\$72,000.00
153	Coliform, Fecal (Method: MPN)		4 col/100 mL	SM9221E	1.8cfu/100ml	1.8cfu/100ml	22	100	\$2,200.00
153A	Coliform, Fecal (Method: Alternate MPN)							50	\$0.00
154	Coliform, Fecal (Solid-Method: MPN)			SM9221E	180cfu/gram	180cfu/gram	26	25	\$650.00
155	Coliform, Total (Method: MF)			SM9222B	.33cfu/100ml	3.33cfu/100ml	20	20	\$400.00
156	Coliform, Total (Method: MPN)							20	\$0.00
157	Fecal Streptococci		4 col/100 mL					10	\$0.00
157A	Fecal Streptococci (Method: Alternate)							10	\$0.00
158	Fecal Streptococci (Solid)							10	\$0.00
159	Iron Bacteria							20	\$0.00
160	Sulfate Reducing Bacteria							20	\$0.00
<b>Chlorophyll/Biological</b>									
161	Chlorophyll a		0.5 mg/L					100	\$0.00
161A	Chlorophyll a (Method: Alternate)							20	\$0.00
162	Chlorophyll: Trichromatic and Monochromatic Chlorophylls (SM-10200-H)	Total Algal Biomass, Uncorrected Chlorophyll a, b, & c, Corrected Chlorophyll a, and Pheophytin	2 µg/l or mg/m3					100	\$0.00
<b>Chemical/Carbon</b>									
163	Carbon, Total Organic (as C)	TOC	1 mg/L	SM5310C	0.139mg/L	0.5mg/L	19	25	\$475.00
163A	Carbon, Total Organic (as C) (Method: Alternate)	TOC		SW9060A	0.139mg/L	0.5mg/L	19	10	\$190.00
164	Carbon, Dissolved Organic (as C)	DOC	1 mg/L					25	\$0.00
164A	Carbon, Dissolved Organic (as C) (Method: Alternate)	DOC						10	\$0.00
165	Bicarbonate (Method: SM)							25	\$0.00
165A	Bicarbonate (Method: Alternate)							10	\$0.00
166	Carbon, Inorganic (as C)		0.1 mg/L					10	\$0.00
167	Oil-Grease	Total recoverable oil and grease	2 mg/L	EPA1664A	0.97mg/L	5mg/L	35	25	\$875.00
167A	Oil-Grease (Method: Alternate)	Total recoverable oil and grease						10	\$0.00
167	Oil-Grease (Solid)	Total recoverable oil and grease		SW9071B	95.4mg/L	180mg/L	40	10	\$400.00
168	MBAS (Surfactants/Detergents)		0.05 mg/L	SM5540C	0.119mg/L	0.4mg/L	26	25	\$650.00
168A	MBAS (Surfactants/Detergents) (Method: Alternate)							10	\$0.00
<b>Radiochemical</b>									
169	Radioactivity, Gross Alpha							20	\$0.00
170	Radioactivity, Gross Alpha (Solid)							10	\$0.00
171	Radioactivity, Gross Beta							20	\$0.00
172	Radioactivity, Gross Beta (Solid)							10	\$0.00
173	Ra-226	Radium 226						20	\$0.00
174	Ra-226 (Solid)	Radium 226						10	\$0.00
175	Ra-228	Radium 228						20	\$0.00
176	Ra-228 (Solid)	Radium 228						10	\$0.00
177	Total Uranium							20	\$0.00
178	Total Uranium (Solid)							10	\$0.00
179	Sr-89	Strontium 89						20	\$0.00
180	Sr-89 (Solid)	Strontium 89						10	\$0.00
181	Sr-90	Strontium 90						20	\$0.00
182	Sr-90 (Solid)	Strontium 90						10	\$0.00
183	Tritium (H3)							20	\$0.00
184	Tritium (H3) (Solid)							10	\$0.00
185	Gamma (Cs-137)	Cesium 137						20	\$0.00
186	Gamma (Cs-137) (Solid)	Cesium 137						10	\$0.00
187	Radon							20	\$0.00
188	Radon (Solid)							10	\$0.00
<b>Whole Effluent Toxicity Testing</b>									

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189	Ceriodaphnia, Acute		N/A		N/A	N/A	195	20	\$3,900.00	
190	Ceriodaphnia, Chronic		N/A		N/A	N/A	900	20	\$18,000.00	
191	Daphnia pulex/D. magna, Acute		N/A		N/A	N/A		20	\$0.00	
192	Pimephales promelas, Acute		N/A		N/A	N/A	225	20	\$4,500.00	
193	Pimephales promelas, Chronic (Survival and Growth)		N/A		N/A	N/A	1000	20	\$20,000.00	
<b>ORGANICS</b>										
<b>Select Individual Parameter Testing</b>										
194	Acrylamide (Method 8032A)							10	\$0.00	
195	Cyanide, Amenable		0.005 mg/L	M4500CN	0.0047mg/L	0.005mg/L	28	25	\$700.00	
195A	Cyanide, Amenable (Method: Alternate)							10	\$0.00	
196	Cyanide, Free (Method: ASTM)		0.005 mg/L					25	\$0.00	
196A	Cyanide, Free (Method: Alternate)			OIA1677	1.69mg/L	2mg/L	34	10	\$340.00	
197	Cyanide, Weak Acid Dissociable	WAD Cyanide	0.005 mg/L	M4500CN	0.0018mg/L	0.005mg/L	28	20	\$560.00	
198	Cyanide, Total	Strong Acid Dissociable (SAD) Cyanide	0.005 mg/L	KELADA-0	0.0025mg/L	0.005mg/L	22	25	\$550.00	
198A	Cyanide, Total (Method: Alternate)	Strong Acid Dissociable (SAD) Cyanide		EPA335.4	0.0017mg/L	0.005mg/L	22	10	\$220.00	
199	Cyanide, Total (Solid)	Strong Acid Dissociable (SAD) Cyanide		SW9012B	0.013mg/kg	0.03mg/kg	22	10	\$220.00	
200	Phenolics	Total Phenolic Materials	0.01 mg/L	EPA420.4	0.0025mg/L	0.01mg/L	21	25	\$525.00	
200A	Phenolics (Method: Alternate)	Total Phenolic Materials		SW9066	0.0025mg/L	0.01mg/L	21	10	\$210.00	
201	Phenolics (Solid)	Total Phenolic Materials		SW9066	0.377mg/kg	0.5mg/lkg	36	10	\$360.00	
<b>Method 601, Purgeable Halocarbons</b>										
202	Single compound analysis cost			See Attachment B	N/A	N/A	N/A	12	\$0.00	
203	Up to 10 compounds then complete list cost applies				N/A	N/A	N/A	12	\$0.00	
204	Complete list cost				N/A	N/A	N/A	12	\$0.00	
<b>Method 602, Purgeable Aromatics</b>										
205	Single compound analysis cost			Attachment B	N/A	N/A	N/A	15	\$0.00	
206	Complete list cost				N/A	N/A	N/A	15	\$0.00	
<b>Method 603, Acrolein &amp; Acrylonitrile</b>										
207	Single compound analysis cost			Attachment B	N/A	N/A	N/A	15	\$0.00	
208	Complete list cost				N/A	N/A	N/A	15	\$0.00	
<b>Method 604, Phenols</b>										
209	Single compound analysis cost			See Attachment B	N/A	N/A	N/A	20	\$0.00	
210	Up to 10 compounds then complete list cost applies				N/A	N/A	N/A	20	\$0.00	
211	Complete list cost				N/A	N/A	N/A	20	\$0.00	
<b>Method 605, Benzidines</b>										
212	Single compound analysis cost			Attachment B	N/A	N/A	N/A	12	\$0.00	
213	Complete list cost				N/A	N/A	N/A	12	\$0.00	
<b>Method 606, Phthalate Esters</b>										
214	Single compound analysis cost			Attachment B	N/A	N/A	N/A	12	\$0.00	
215	Complete list cost				N/A	N/A	N/A	12	\$0.00	
<b>Method 607, Nitrosamines</b>										
216	Single compound analysis cost			Attachment B	N/A	N/A	N/A	12	\$0.00	
217	Complete list cost				N/A	N/A	N/A	12	\$0.00	
<b>Method 608, Organochlorine Pesticides &amp; PCBs</b>										
218	Single compound analysis cost			See Attachment B	N/A	N/A	N/A	59	15	\$885.00
219	Up to 10 compounds then complete list cost applies				N/A	N/A	N/A	64	15	\$960.00
220	Complete list cost				N/A	N/A	N/A	74	15	\$1,110.00
<b>Method 609, Nitroaromatics &amp; Isophorone</b>										
221	Single compound analysis cost			Attachment B	N/A	N/A	N/A	12	\$0.00	
222	Complete list cost				N/A	N/A	N/A	12	\$0.00	
<b>Method 610, Polynuclear Aromatic Hydrocarbons</b>										
223	Single compound analysis cost			See Attachment B	N/A	N/A	N/A	20	\$0.00	
224	Up to 10 compounds then complete list cost applies				N/A	N/A	N/A	20	\$0.00	
225	Complete list cost				N/A	N/A	N/A	20	\$0.00	
<b>Method 611, Halocethers</b>										
226	Single compound analysis cost			Attachment B	N/A	N/A	N/A	12	\$0.00	

## Attachment C

227	Complete list cost	B	N/A	N/A	N/A		12	\$0.00
<b>Method 612, Chlorinated hydrocarbons</b>								
228	Single compound analysis cost	Attachment B	N/A	N/A	N/A		12	\$0.00
229	Complete list cost	B	N/A	N/A	N/A		12	\$0.00
<b>Method 613, 2,3,7,8 Tetrachlorodibenzo-P-dioxin</b>								
230	Single compound analysis cost	Attachment B	N/A	N/A	N/A		12	\$0.00
<b>Method 613, Tetra-through Octa-Chlorinated Dibenzo-P-dioxins (CDDs) &amp; Dibenzofurans (CDFs)</b>								
231	Complete list cost	Attachment B	N/A	N/A	N/A		12	\$0.00
<b>Method 624, Purgeables</b>								
232	Single compound analysis cost	See Attachment B	N/A	N/A	N/A	60	20	\$1,200.00
232	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A	60	20	\$1,200.00
233	Complete list cost	B	N/A	N/A	N/A	68	20	\$1,360.00
<b>Method 625, Base/Neutrals Extractables</b>								
234	Single compound analysis cost	See Attachment B	N/A	N/A	N/A	74	12	\$888.00
235	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A	74	12	\$888.00
236	Complete list cost	B	N/A	N/A	N/A	90	12	\$1,080.00
<b>Method 625, Acid Extractables</b>								
237	Single compound analysis cost	See Attachment B	N/A	N/A	N/A	74	12	\$888.00
238	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A	74	12	\$888.00
239	Complete list cost	B	N/A	N/A	N/A	90	12	\$1,080.00
<b>Method 8015B</b>								
240	Single compound analysis cost	See Attachment B	N/A	N/A	N/A		20	\$0.00
241	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A		20	\$0.00
242	Complete list cost	B	N/A	N/A	N/A		20	\$0.00
<b>Method 8041, Phenols by GC</b>								
243	Single compound analysis cost	See Attachment B	N/A	N/A	N/A		12	\$0.00
244	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A		12	\$0.00
245	Complete list cost	B	N/A	N/A	N/A		12	\$0.00
<b>Method 8100, Polynuclear Aromatic Hydrocarbons</b>								
246	Single compound analysis cost	See Attachment B	N/A	N/A	N/A		20	\$0.00
247	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A		20	\$0.00
248	Complete list cost	B	N/A	N/A	N/A		20	\$0.00
<b>Method 8121, Chlorinated Hydrocarbons</b>								
249	Single compound analysis cost	See Attachment B	N/A	N/A	N/A		12	\$0.00
250	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A		12	\$0.00
251	Complete list cost	B	N/A	N/A	N/A		12	\$0.00
<b>Method 8151A, Chlorinated Herbicides</b>								
252	Single compound analysis cost	See Attachment B	N/A	N/A	N/A	90	12	\$1,080.00
253	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A	115	12	\$1,380.00
254	Complete list cost	B	N/A	N/A	N/A	115	12	\$1,380.00
<b>Method 8260</b>								
255	Search for additional tentatively identified compounds	See Attachment B	N/A	N/A	N/A	25	15	\$375.00
256	Single compound analysis cost	B	N/A	N/A	N/A	60	15	\$900.00
257	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A	60	15	\$900.00
258	Complete list cost	B	N/A	N/A	N/A	68	15	\$1,020.00
259	GC-MS Scan per TIC, report TICS that are detected at 10% of the area of the nearest internal standard	B	N/A	N/A	N/A		15	\$0.00
<b>Method 8270</b>								
260	Search for additional tentatively identified compounds	See Attachment B	N/A	N/A	N/A	25	15	\$375.00
261	Single compound analysis cost	B	N/A	N/A	N/A	78	15	\$1,170.00
262	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A	115	15	\$1,725.00
263	Complete list cost	B	N/A	N/A	N/A	134	15	\$2,010.00
264	GC-MS Scan per TIC, report TICS that are detected at 10% of the area of the nearest internal standard	B	N/A	N/A	N/A		15	\$0.00
<b>Method 8310, Polynuclear Aromatic Hydrocarbons by HPLC</b>								
265	Single compound analysis cost	See Attachment B	N/A	N/A	N/A		15	\$0.00
266	Up to 10 compounds then complete list cost applies	B	N/A	N/A	N/A		15	\$0.00
267	Complete list cost	B	N/A	N/A	N/A		15	\$0.00

<b>TCLP RCRA Pesticides &amp; Herbicides EPA 1311/SW846</b>								
268	Single compound analysis cost	Attachment	N/A	N/A	N/A	124	12	\$1,488.00
269	Complete list cost	B	N/A	N/A	N/A	188	12	\$2,256.00
<b>TCLP RCRA Metals EPA 1311/SW846</b>								
270	Single compound analysis cost	Attachment	N/A	N/A	N/A	44	24	\$1,056.00
271	Complete list cost	B	N/A	N/A	N/A	98	24	\$2,352.00
<b>TCLP Volatile Organics 8260 with 1311 extraction</b>								
272	Single compound analysis cost	See	N/A	N/A	N/A	89	20	\$1,780.00
273	Up to 10 compounds then complete list cost applies	Attachment	N/A	N/A	N/A	89	20	\$1,780.00
274	Complete list cost	B	N/A	N/A	N/A	89	20	\$1,780.00
<b>TCLP Semi-Volatile Organics 8720 with 1311 extraction</b>								
275	Single compound analysis cost	See	N/A	N/A	N/A	108	12	\$1,296.00
276	Up to 10 compounds then complete list cost applies	Attachment	N/A	N/A	N/A	168	12	\$2,016.00
277	Complete list cost	B	N/A	N/A	N/A	168	12	\$2,016.00
<b>RCRA General Chemistry</b>								
278	Single compound analysis cost	Attachments	N/A	N/A	N/A	30	12	\$360.00
279	Complete list cost	A & B	N/A	N/A	N/A	78	12	\$936.00
<b>Metals/Cyanide Target Analyte List (TAL)-Low level option EPA 200.7/SW 7470/7471</b>								
280	Single compound analysis cost	Attachments	N/A	N/A	N/A		12	\$0.00
281	Complete list cost	A & B	N/A	N/A	N/A	140	12	\$1,680.00
<b>Quick Packages</b>								
282	8081A Organochlorine Pesticides GC	See Attachment B	N/A	N/A	N/A	74	10	\$740.00
283	8082 PCBs by GC		N/A	N/A	N/A	49	10	\$490.00
284	8061A Phthalate Esters by GC/EDC		N/A	N/A	N/A		10	\$0.00
285	8270 PAH by GC/MS		N/A	N/A	N/A	74	10	\$740.00
286	PAH by GC/MS - 8270 SIM		N/A	N/A	N/A	84	20	\$1,680.00
287	8260B Volatile Organics by GC/MS		N/A	N/A	N/A	68	20	\$1,360.00
288	8270C Semivolatile Organics by GC/MS		N/A	N/A	N/A	134	20	\$2,680.00
289	Semivolatile Organics by GC/MS - 8270 SIM		N/A	N/A	N/A		20	\$0.00
290	BTEX (8021B/8260B)		N/A	N/A	N/A		30	\$0.00
291	BTEX (8021B)/MTBE (8021B)		N/A	N/A	N/A		30	\$0.00
292	BTEX (8021B)/GRO (8015B)		N/A	N/A	N/A		30	\$0.00
293	BTEX (8021B)/DRO/GRO (8015B)		N/A	N/A	N/A		30	\$0.00
294	BTEX (8021B)/GRO (8015B)/MTBE (8021B)		N/A	N/A	N/A		30	\$0.00
295	BTEX (8021B)/DRO/GRO (8015B)/MTBE (8021B)		N/A	N/A	N/A		30	\$0.00
296	BTEX/MTBE/TBA/EDB/EDC by 8260B (SIM)		N/A	N/A	N/A		30	\$0.00
297	TPH-ORO (8015B)		N/A	N/A	N/A	50	10	\$500.00
298	TPH-GRO (8015B)		N/A	N/A	N/A	35	10	\$350.00
299	TPH-DRO (8015B)		N/A	N/A	N/A	50	10	\$500.00
300	TPH-DRO/ORO (8015B)		N/A	N/A	N/A	50	10	\$500.00
301	TPH-GRO/DRO (8015B)		N/A	N/A	N/A	85	10	\$850.00
302	TPH-GRO/DRO/ORO (8015B)	N/A	N/A	N/A	85	20	\$1,700.00	
303	USED OIL FUEL (VARIOUS-See Attachment B)	N/A	N/A	N/A	162	10	\$1,620.00	
<b>PHASE I DETECTION MONITORING (Groundwater only)</b>								
304	Search for additional tentatively identified compounds	See Attachment B	N/A	N/A	N/A	25	12	\$300.00
305	Single compound analysis cost		N/A	N/A	N/A		12	\$0.00
306	Up to 10 compounds then complete list cost applies		N/A	N/A	N/A		12	\$0.00
307	Total cost Phase I complete list		N/A	N/A	N/A	436	12	\$5,232.00
<b>Priority Pollutants by SW-846 Protocol Analysis</b>								
308	Priority Pollutant Volatiles	See Attachment B	N/A	N/A	N/A	68	12	\$816.00
309	Priority Pollutant Semi-Volatiles		N/A	N/A	N/A	134	12	\$1,608.00
310	Priority Pollutant Pesticides/PCBs		N/A	N/A	N/A	123	12	\$1,476.00
311	Priority Pollutant Inorganics		N/A	N/A	N/A	43	12	\$516.00
312	Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodibenzo-p-Dioxin) quoted at time of analysis		N/A	N/A	N/A	368	12	\$4,416.00
<b>Total Toxic Organics (TTO) by SW-846 Protocol Analysis</b>								
313	TTO Volatiles	See Attachment B	N/A	N/A	N/A	68	12	\$816.00
314	TTO Semi-Volatiles		N/A	N/A	N/A	134	12	\$1,608.00
315	TTO Pesticides/PCBs		N/A	N/A	N/A	123	12	\$1,476.00
316	TTO Inorganics		N/A	N/A	N/A	43	12	\$516.00
317	Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodibenzo-p-Dioxin) quoted at time of analysis		N/A	N/A	N/A	368	12	\$4,416.00
<b>Target Compounds List (TCL) Analysis</b>								

318	TCL Volatiles	See Attachment B	N/A	N/A	N/A	68	12	\$816.00
319	TCL Semi-Volatiles		N/A	N/A	N/A	134	12	\$1,608.00
320	TCL Pesticides/PCBs		N/A	N/A	N/A	123	12	\$1,476.00
321	TCL Inorganics		N/A	N/A	N/A	207	12	\$2,484.00
322	Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodibenzo-p-Dioxin) quoted at time of analysis		N/A	N/A	N/A	532	12	\$6,384.00
<b>Hazardous Waste Characterizations Analysis</b>								
323	Reactivity	See Attachment B	N/A	N/A	N/A	60	12	\$720.00
324	Ignitability		N/A	N/A	N/A	25	12	\$300.00
325	Corrosivity (pH)		N/A	N/A	N/A	6	12	\$72.00
326	Corrosivity (NACE)		N/A	N/A	N/A		12	\$0.00
327	BTU		N/A	N/A	N/A	75	12	\$900.00
328	TCLP		N/A	N/A	N/A	483	12	\$5,796.00
329	Total Package Cost		N/A	N/A	N/A	619	12	\$7,428.00
<b>TCLP Extractions Analysis</b>								
330	Percent Solids (metals, semi-volatiles, volatiles, pesticides, herbicides)	See Attachment B	N/A	N/A	N/A	10	15	\$150.00
331	Characterization Extraction (metals, semi-volatiles, pesticides, herbicides)		N/A	N/A	N/A	35	15	\$525.00
332	Zero Headspace Extraction (volatiles)		N/A	N/A	N/A	30	15	\$450.00
<b>TCLP Analysis - Analysis</b>								
333	TCLP Metals quantified to 10% of TCLP levels	See Attachment B	N/A	N/A	N/A		20	\$0.00
334	TCLP-Mercury		N/A	N/A	N/A	44	20	\$880.00
335	TCLP-Individual Metal		N/A	N/A	N/A	44	20	\$880.00
336	Additional Metals (Flame, Furnace, ICP, ICP-MS)		N/A	N/A	N/A	6	20	\$120.00
337	Analysis by Standard Method of Addition (per metal)		N/A	N/A	N/A		20	\$0.00
338	TCLP Pb characterization (includes extraction fees)		N/A	N/A	N/A	40	20	\$800.00
339	TCLP Volatile Organics		N/A	N/A	N/A	98	20	\$1,960.00
340	TCLP Semi-Volatile Organics		N/A	N/A	N/A	168	20	\$3,360.00
341	TCLP Pesticides/Herbicides		N/A	N/A	N/A	188	20	\$3,760.00
342	TCLP Pesticides		N/A	N/A	N/A	94	20	\$1,880.00
343	TCLP Herbicides		N/A	N/A	N/A	94	20	\$1,880.00
344	Full TCLP	N/A	N/A	N/A	483	20	\$9,660.00	
<b>NOTE: Multiphasic samples will be subject to additional extraction and analytical fee</b>								
<b>PHASE II ASSESSMENT MONITORING (Groundwater only)</b>								
345	Search for additional tentatively identified compounds	See Attachment B	N/A	N/A	N/A	25	12	\$300.00
346	Single compound analysis cost		N/A	N/A	N/A		12	\$0.00
347	Up to 10 compounds then complete list cost applies		N/A	N/A	N/A		12	\$0.00
348	Total cost Phase II complete list		N/A	N/A	N/A	563	12	\$6,756.00
349	Encore Sampling Kits (each)		N/A	N/A	N/A		12	\$0.00
350	Terra Core Sampling Kits (each)		N/A	N/A	N/A	10	12	\$120.00
<b>Collection of samples - costs associated with sample pickup from the following locations:</b>								
351	Bridgeport Office, 101 Cambridge Place, Bridgeport, WV 26330					70	24	\$1,680.00
352	Charleston Office, 601 57th Street S.E., Charleston, WV 25304					0	24	\$0.00
353	Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 26554					35	24	\$840.00
354	Logan Office, 1101 George Kostas Dr., Logan, 25601					70	24	\$1,680.00
355	Fayetteville Office, 1159 Nick Rahall Greenway, Fayetteville, WV 25840					70	24	\$1,680.00
356	Parkersburg Office, 2311 Ohio Ave., Parkersburg, WV 26010					70	24	\$1,680.00
357	Philippi Office, 47 School Street, Philippi, WV 26416					70	24	\$1,680.00
358	Romney Office, 22288 Northwestern Pike, Romney, WV 26757					140	24	\$3,360.00
359	Other locations as Cost Per Mile to pickup site						24	\$0.00
360	24 Hour Turn-Around Rush Order fee, per sample					100	10	\$1,000.00
361	48 Hour Turn-Around Rush Order fee, per sample					75	10	\$750.00
362	72 Hour Turn-Around Rush Order fee, per sample					50	10	\$500.00
<b>TOTAL</b>								<b>#####</b>

Quantities listed on the bid schedule are for bid evaluation purposes only and are not a guarantee of quantities to be ordered over the life of the contract. Actual quantities may be more or less than those stated on this schedule. Prices must be entered as dollars and cents.

Company: ALS Group USA, Corp dba ALS Environmental  
 Name: Rebecca Kiser  
 Signature: Rebecca Kiser Date: 01.19.21



ATTACHMENT I

WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT

List of Certified Parameters  
for

**ALS ENVIRONMENTAL - SOUTH  
CHARLESTON, WV  
SOUTH CHARLESTON, WEST VIRGINIA**

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Color	SM2120 B-11	Visual Comparison
Conductance, Specific	SM2510 B-11	Probe
Nitrite	SM4500-NO2 B-11	Spectrophotometric
Oxygen Demand, Biochemical (BOD)	SM5210 B-11	Probe
Oxygen Demand, Carbonaceous Biochemical (CBOD)	SM5210 B-11	Probe
pH (Hydrogen Ion)	SW9040C	Electrode
Solids, Settleable	SM2540 F-11	Imhoff
Turbidity	EPA180.1 Rev 2.0-1993	Turbidimetric

NONPOTABLE WATER MICROBIOLOGY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Coliform, Fecal (MF)	SM9222 D-06	Membrane Filter
Coliform, Fecal (MPN)	SM9221 E-06	Multiple Tube
Coliform, Total (MF)	SM9222 B-06	Membrane Filter
E. Coli (MF)	HACH 10029	Membrane Filter

WHOLE EFFLUENT TOXICITY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acute - Ceriodaphnia dubia	EPA821-R-02-012 2002.0	Acute
Acute - Fathead Minnow	EPA821-R-02-012 2000.0	Acute
Chronic - Ceriodaphnia dubia	EPA821-R-02-013 1002.0	Chronic
Chronic - Fathead Minnow	EPA821-R-02-013 1000.0	Chronic

SOLID AND CHEMICAL INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
pH (Hydrogen Ion)	SW9040C	Electrode
pH (Hydrogen Ion)	SW9045D	Electrode

SOLID AND CHEMICAL MICROBIOLOGY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Coliform, Fecal (MPN)	SM9221 E-06	Multiple Tube

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires May 31, 2021.

Certificate No 385



Issued on May 08, 2020

Justin Carpenter  
QA Auditor

*This certified parameter list supersedes all previously issued parameter lists for this certificate number.*

ATTACHMENT I

WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT

List of Certified Parameters  
for

**ALS ENVIRONMENTAL - HOLLAND**  
**MICHIGAN**  
**HOLLAND, MICHIGAN**

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acidity	SM2310 B-11	Titrimetric
Alkalinity	SM2320 B-11	Titrimetric
Ammonia	EPA350.1 Rev 2.0-1993	Spectrophotometric
Ammonia	SM4500-NH3 G-11	Spectrophotometric
Bromide	EPA300.0 Rev 2.1-1993	IC
Bromide	SW9056A	IC
Carbon, Total Organic (TOC)	SM5310 C-11	Oxidation
Carbon, Total Organic (TOC)	SW9060A	Oxidation
Chloride	EPA300.0 Rev 2.1-1993	IC
Chloride	SM4500-Cl C-11	Titrimetric
Chloride	SM4500-Cl E-11	Spectrophotometric
Chloride	SW9056A	IC
Chromium VI, Dissolved	SM3500-Cr B-11	Spectrophotometric
Chromium VI, Dissolved	SW3060A	Digestion
Chromium VI, Dissolved	SW7196A	Spectrophotometric
Conductance, Specific	SM2510 B-11	Probe
Conductance, Specific	SW9050A	Probe
Cyanide, Amenable to Chlorination	SM4500-CN E-11	Spectrophotometric
Cyanide, Amenable to Chlorination	SM4500-CN G-11	Digestion
Cyanide, Available	OIA-1677	FI/LE
Cyanide, Free	OIA-1677	FI
Cyanide, Total	ASTM D7511-09	Amperometric
Cyanide, Total	EPA335.4 Rev 1.0-1993	Spectrophotometric
Cyanide, Total	Kelada-01	Colorimetric
Cyanide, Total	SM4500-CN C-11	Distillation
Cyanide, Total	SM4500-CN E-11	Spectrophotometric
Cyanide, Total	SW9010B	Distillation
Cyanide, Total	SW9012B	Spectrophotometric
Cyanide, Weak Acid Dissociable	SM4500-CN E-11	Spectrophotometric
Cyanide, Weak Acid Dissociable	SM4500-CN I-11	Distillation

Fluoride	EPA300.0 Rev 2.1-1993	IC
Fluoride	SW9056A	IC
Hardness, Total	SM2340 B-11	Calculation
Hardness, Total	SM2340 C-11	Titrimetric
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrate	EPA353.2 Rev 2.0-1993	Calculation
Nitrate	SM4500-NO3 F-11	Calculation
Nitrate	SW9056A	IC
Nitrate-Nitrite	EPA300.0 Rev 2.1-1993	Calculation
Nitrate-Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrate-Nitrite	SM4500-NO3 F-11	Spectrophotometric
Nitrate-Nitrite	SW9056A	Calculation
Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrite	SM4500-NO2 B-11	Spectrophotometric
Nitrite	SM4500-NO3 F-11	Spectrophotometric
Nitrite	SW9056A	IC
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 B-11	Distillation
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 G-11	Spectrophotometric
Oil & Grease	EPA1664 A	Gravimetric
Oxygen Demand, Biochemical (BOD)	SM5210 B-11	Probe
Oxygen Demand, Carbonaceous Biochemical (CBOD)	SM5210 B-11	Probe
Oxygen Demand, Chemical (COD)	EPA410.4 Rev 2.0-1993	Spectrophotometric
Phenolics, Total	EPA420.4 Rev 1.0-1993	Spectrophotometric
Phenolics, Total	SW9066	Spectrophotometric
Phosphorus, Ortho	EPA365.1 Rev 2.0-1993	Spectrophotometric
Phosphorus, Ortho	SM4500-P E-11	Spectrophotometric
Phosphorus, Total	EPA365.1 Rev 2.0-1993	Spectrophotometric
Phosphorus, Total	SM4500-P E-11	Spectrophotometric
Solids, Dissolved	SM2540 C-11	Gravimetric
Solids, Settleable	SM2540 F-11	Imhoff
Solids, Suspended	SM2540 D-11	Gravimetric
Solids, Total	SM2540 B-11	Gravimetric
Solids, Volatile	EPA160.4	Gravimetric
Solids, Volatile	SM2540 E-11	Gravimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfate	SM4500-SO4 E-11	Turbidimetric
Sulfate	SW9056A	IC
Sulfide	SM4500-S F-11	Titrimetric
Sulfide	SW9030B	Distillation
Sulfide	SW9034	Titrimetric
Surfactants (MBAS)	SM5540 C-11	Spectrophotometric
Turbidity	SM2130 B-11	Turbidimetric

#### NONPOTABLE WATER TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	EPA200.7 Rev 4.4-1994	ICP
Aluminum	EPA200.8 Rev 5.4-1994	ICP-MS
Aluminum	SW6010D	ICP
Aluminum	SW6020B	ICP-MS
Antimony	EPA200.7 Rev 4.4-1994	ICP

Antimony	EPA200.8 Rev 5.4-1994	ICP-MS
Antimony	SW6010D	ICP
Antimony	SW6020B	ICP-MS
Arsenic	EPA200.7 Rev 4.4-1994	ICP
Arsenic	EPA200.8 Rev 5.4-1994	ICP-MS
Arsenic	SW6010D	ICP
Arsenic	SW6020B	ICP-MS
Barium	EPA200.7 Rev 4.4-1994	ICP
Barium	EPA200.8 Rev 5.4-1994	ICP-MS
Barium	SW6010D	ICP
Barium	SW6020B	ICP-MS
Beryllium	EPA200.7 Rev 4.4-1994	ICP
Beryllium	EPA200.8 Rev 5.4-1994	ICP-MS
Beryllium	SW6010D	ICP
Beryllium	SW6020B	ICP-MS
Boron	EPA200.7 Rev 4.4-1994	ICP
Boron	EPA200.8 Rev 5.4-1994	ICP-MS
Boron	SW6010D	ICP
Boron	SW6020B	ICP-MS
Cadmium	EPA200.7 Rev 4.4-1994	ICP
Cadmium	EPA200.8 Rev 5.4-1994	ICP-MS
Cadmium	SW6010D	ICP
Cadmium	SW6020B	ICP-MS
Calcium	EPA200.7 Rev 4.4-1994	ICP
Calcium	EPA200.8 Rev 5.4-1994	ICP-MS
Calcium	SW6010D	ICP
Calcium	SW6020B	ICP-MS
Chromium	EPA200.7 Rev 4.4-1994	ICP
Chromium	EPA200.8 Rev 5.4-1994	ICP-MS
Chromium	SW6010D	ICP
Chromium	SW6020B	ICP-MS
Cobalt	EPA200.7 Rev 4.4-1994	ICP
Cobalt	EPA200.8 Rev 5.4-1994	ICP-MS
Cobalt	SW6010D	ICP
Cobalt	SW6020B	ICP-MS
Copper	EPA200.7 Rev 4.4-1994	ICP
Copper	EPA200.8 Rev 5.4-1994	ICP-MS
Copper	SW6010D	ICP
Copper	SW6020B	ICP-MS
Iron	EPA200.7 Rev 4.4-1994	ICP
Iron	EPA200.8 Rev 5.4-1994	ICP-MS
Iron	SW6010D	ICP
Iron	SW6020B	ICP-MS
Lead	EPA200.7 Rev 4.4-1994	ICP
Lead	EPA200.8 Rev 5.4-1994	ICP-MS
Lead	SW6010D	ICP
Lead	SW6020B	ICP-MS
Magnesium	EPA200.7 Rev 4.4-1994	ICP
Magnesium	EPA200.8 Rev 5.4-1994	ICP-MS
Magnesium	SW6010D	ICP
Magnesium	SW6020B	ICP-MS
Manganese	EPA200.7 Rev 4.4-1994	ICP
Manganese	EPA200.8 Rev 5.4-1994	ICP-MS
Manganese	SW6010D	ICP

Manganese	SW6020B	ICP-MS
Mercury	EPA1631 E	CVAF
Mercury	EPA245.1 Rev 3.0-1994	CVAA
Mercury	SW7470A	CVAA
Metals	SW3005A	Digestion
Molybdenum	EPA200.7 Rev 4.4-1994	ICP
Molybdenum	EPA200.8 Rev 5.4-1994	ICP-MS
Molybdenum	SW6010D	ICP
Molybdenum	SW6020B	ICP-MS
Nickel	EPA200.7 Rev 4.4-1994	ICP
Nickel	EPA200.8 Rev 5.4-1994	ICP-MS
Nickel	SW6010D	ICP
Nickel	SW6020B	ICP-MS
Potassium	EPA200.7 Rev 4.4-1994	ICP
Potassium	EPA200.8 Rev 5.4-1994	ICP-MS
Potassium	SW6010D	ICP
Potassium	SW6020B	ICP-MS
Selenium	EPA200.7 Rev 4.4-1994	ICP
Selenium	EPA200.8 Rev 5.4-1994	ICP-MS
Selenium	SW6010D	ICP
Selenium	SW6020B	ICP-MS
Silver	EPA200.7 Rev 4.4-1994	ICP
Silver	EPA200.8 Rev 5.4-1994	ICP-MS
Silver	SW6010D	ICP
Silver	SW6020B	ICP-MS
Sodium	EPA200.7 Rev 4.4-1994	ICP
Sodium	EPA200.8 Rev 5.4-1994	ICP-MS
Sodium	SW6010D	ICP
Sodium	SW6020B	ICP-MS
Strontium	EPA200.7 Rev 4.4-1994	ICP
Strontium	EPA200.8 Rev 5.4-1994	ICP-MS
Strontium	SW6010D	ICP
Strontium	SW6020B	ICP-MS
Thallium	EPA200.7 Rev 4.4-1994	ICP
Thallium	EPA200.8 Rev 5.4-1994	ICP-MS
Thallium	SW6010D	ICP
Thallium	SW6020B	ICP-MS
Tin	EPA200.7 Rev 4.4-1994	ICP
Tin	EPA200.8 Rev 5.4-1994	ICP-MS
Tin	SW6010D	ICP
Tin	SW6020B	ICP-MS
Titanium	EPA200.7 Rev 4.4-1994	ICP
Titanium	EPA200.8 Rev 5.4-1994	ICP-MS
Titanium	SW6010D	ICP
Titanium	SW6020B	ICP-MS
Vanadium	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.8 Rev 5.4-1994	ICP-MS
Vanadium	SW6010D	ICP
Vanadium	SW6020B	ICP-MS
Zinc	EPA200.7 Rev 4.4-1994	ICP
Zinc	EPA200.8 Rev 5.4-1994	ICP-MS
Zinc	SW6010D	ICP
Zinc	SW6020B	ICP-MS

### NONPOTABLE WATER VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Purge & Trap For Aqueous Samples	SW5030B	Extraction
Purgeables	EPA624.1	GC/MS
Total Petroleum Hydrocarbons (GRO)	SW8015C	GC/FID
Total Petroleum Hydrocarbons (GRO)	SW8015D	GC/FID
Volatile Organic Compounds	SW8260C	GC/MS
Volatile Organic Compounds	SW8260D	GC/MS

### NONPOTABLE WATER EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Base/Neutrals & Acids	EPA625.1	GC/MS
Carbonyl Compounds	SW8315A	HPLC
Chlorinated Herbicides	SW8151A	GC
EDB & DBCP	SW8011	GC/ECD
Glycols	SW8015C	GC/FID
Microextraction	SW3511	Extraction
Organochlorine Pesticides	SW8081A	GC
Organochlorine Pesticides & PCBs	EPA608.3	GC
Organophosphorus Compounds	SW8141B	GC
Per- & Poly-fluoralkyl Substances (PFA)	ASTM D7979-19	LC/MS/MS
Per- & Poly-fluoralkyl Substances (PFA)	SW8327	LC/MS/MS
Polychlorinated Biphenyls	SW8082A	GC
Semivolatile Organic Compounds	SW8270E	GC/MS
Semivolatile Organic Compounds	SW8270E	SIM
Separatory Funnel Liquid-Liquid	SW3510C	Extraction
Total Petroleum Hydrocarbons (DRO)	SW8015C	GC/FID
Total Petroleum Hydrocarbons (DRO)	SW8015D	GC/FID
Total Petroleum Hydrocarbons (ORO)	SW8015C	GC/FID
Total Petroleum Hydrocarbons (ORO)	SW8015D	GC/FID

### HAZARDOUS WASTE CHARACTERISTICS

<u>PROCEDURE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Corrosivity	SW9045D	Electrode
Ignitability	SW1010A	Closed Cup
Paint Filter Test	SW9095B	Gravimetric
SPLP- Metals & Organics	SW1312	Extraction
TCLP- Metals & Organics	SW1311	Extraction

### SOLID AND CHEMICAL INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Ammonia	SM4500-NH3 B-11	Distillation
Ammonia	SM4500-NH3 G-11	Spectrophotometric
Bromide	EPA300.0 Rev 2.1-1993	IC
Bromide	SW9056A	IC
Carbon, Total Organic (TOC)	Walkley-Black	

Chloride	EPA300.0 Rev 2.1-1993	IC
Chloride	SW9056A	IC
Chromium VI, Dissolved	SW3060A	Digestion
Chromium VI, Dissolved	SW7196A	Spectrophotometric
Cyanide, Total	SW9010B	Distillation
Cyanide, Total	SW9012B	Spectrophotometric
Fluoride	EPA300.0 Rev 2.1-1993	IC
Fluoride	SW9056A	IC
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrate	SW9056A	IC
Nitrate-Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrate-Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrate-Nitrite	SW9056A	Calculation
Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 B-11	Distillation
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 G-11	Spectrophotometric
Nitrogen, Total Kjeldahl (TKN)	SM4500-Norg B-11	Digestion
Oil & Grease	SW9071B	Gravimetric
Oxygen Demand, Chemical (COD)	EPA410.4 Rev 2.0-1993	Spectrophotometric
Phenolics, Total	SW9066	Colorimetric
Phosphorus, Total	EPA365.1 Rev 2.0-1993	Spectrophotometric
Solids, Total, Fixed, & Volatile	SM2540 G-11	Gravimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfate	SW9056A	IC
Sulfide	SW9030B	Distillation
Sulfide	SW9034	Titrimetric

SOLID AND CHEMICAL TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6010D	ICP
Aluminum	SW6020A	ICP-MS
Aluminum	SW6020B	ICP-MS
Antimony	SW6010D	ICP
Antimony	SW6020A	ICP-MS
Antimony	SW6020B	ICP-MS
Arsenic	SW6010D	ICP
Arsenic	SW6020A	ICP-MS
Arsenic	SW6020B	ICP-MS
Barium	SW6010D	ICP
Barium	SW6020A	ICP-MS
Barium	SW6020B	ICP-MS
Beryllium	SW6010D	ICP
Beryllium	SW6020A	ICP-MS
Beryllium	SW6020B	ICP-MS
Boron	SW6010D	ICP
Boron	SW6020A	ICP-MS
Boron	SW6020B	ICP-MS
Cadmium	SW6010D	ICP
Cadmium	SW6020A	ICP-MS
Cadmium	SW6020B	ICP-MS
Calcium	SW6010D	ICP
Calcium	SW6020A	ICP-MS



Calcium	SW6020B	ICP-MS
Chromium	SW6010D	ICP
Chromium	SW6020A	ICP-MS
Chromium	SW6020B	ICP-MS
Cobalt	SW6010D	ICP
Cobalt	SW6020A	ICP-MS
Cobalt	SW6020B	ICP-MS
Copper	SW6010D	ICP
Copper	SW6020A	ICP-MS
Copper	SW6020B	ICP-MS
Iron	SW6010D	ICP
Iron	SW6020A	ICP-MS
Iron	SW6020B	ICP-MS
Lead	SW6010D	ICP
Lead	SW6020A	ICP-MS
Lead	SW6020B	ICP-MS
Lithium	SW6010D	ICP
Lithium	SW6020A	ICP-MS
Lithium	SW6020B	ICP-MS
Magnesium	SW6010D	ICP
Magnesium	SW6020A	ICP-MS
Magnesium	SW6020B	ICP-MS
Manganese	SW6010D	ICP
Manganese	SW6020A	ICP-MS
Manganese	SW6020B	ICP-MS
Mercury	SW7471B	CVAA
Metals	SW3050B	Digestion
Molybdenum	SW6010D	ICP
Molybdenum	SW6020A	ICP-MS
Molybdenum	SW6020B	ICP-MS
Nickel	SW6010D	ICP
Nickel	SW6020A	ICP-MS
Nickel	SW6020B	ICP-MS
Potassium	SW6010D	ICP
Potassium	SW6020A	ICP-MS
Potassium	SW6020B	ICP-MS
Selenium	SW6010D	ICP
Selenium	SW6020A	ICP-MS
Selenium	SW6020B	ICP-MS
Silver	SW6010D	ICP
Silver	SW6020A	ICP-MS
Silver	SW6020B	ICP-MS
Sodium	SW6010D	ICP
Sodium	SW6020A	ICP-MS
Sodium	SW6020B	ICP-MS
Strontium	SW6010D	ICP
Strontium	SW6020A	ICP-MS
Strontium	SW6020B	ICP-MS
Thallium	SW6010D	ICP
Thallium	SW6020A	ICP-MS
Thallium	SW6020B	ICP-MS
Tin	SW6010D	ICP
Tin	SW6020A	ICP-MS
Tin	SW6020B	ICP-MS

Titanium	SW6010D	ICP
Titanium	SW6020A	ICP-MS
Titanium	SW6020B	ICP-MS
Vanadium	SW6010D	ICP
Vanadium	SW6020A	ICP-MS
Vanadium	SW6020B	ICP-MS
Zinc	SW6010D	ICP
Zinc	SW6020A	ICP-MS
Zinc	SW6020B	ICP-MS

SOLID AND CHEMICAL VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Closed System Purge & Trap	SW5035	Extraction
Total Petroleum Hydrocarbons (GRO)	SW8015D	GC/FID
Volatile Organic Compounds	SW8260C	GC/MS
Volatile Organic Compounds	SW8260D	GC/MS

SOLID AND CHEMICAL EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Carbonyl Compounds	SW8315A	HPLC
Chlorinated Herbicides	SW8151A	GC/ECD
Microwave Extraction	SW3546	Extraction
Organochlorine Pesticides	SW8081A	GC
Polychlorinated Biphenyls	SW8082A	GC
Polyfluorinated Compounds (PFCs) in S	ASTM 7968-17a	LC/MS/MS
Semivolatile Organic Compounds	SW8270E	GC/MS
Semivolatile Organic Compounds	SW8270E	SIM
Silica Gel Cleanup	SW3630C	Cleanup
Soxhlet	SW3540C	Extraction
Soxhlet, Automated	SW3541	Extraction
Sulfur Cleanup	SW3660B	Cleanup
Sulfuric Acid/Permanganate Cleanup	SW3665A	Cleanup
Total Petroleum Hydrocarbons (DRO)	SW8015D	GC/FID
Total Petroleum Hydrocarbons (ORO)	SW8015D	GC/FID
Ultrasonic	SW3550C	Extraction
Waste Dilution	SW3580A	Dilution

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires August 31, 2021.

Certificate No 355

 Issued on August 31, 2020

Kelly Kinder  
Quality Assurance Officer

*This certified parameter list supersedes all previously issued parameter lists for this certificate number.*

ATTACHMENT I

WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT

List of Certified Parameters  
for

**ALS ENVIRONMENTAL**  
**MIDDLETOWN, PENNSYLVANIA**

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acidity	SM2310 B-11	Titrimetric
Alkalinity	SM2320 B-11	Titrimetric
Ammonia	ASTM D6919-09	IC
Ammonia	SM4500-NH3 G-11	Spectrophotometric
Bromide	EPA300.0 Rev 2.1-1993	IC
Bromide	EPA300.1 Rev 1.0-1997	IC
Bromide	SW9056A	IC
Carbon, Total Organic (TOC)	SM5310 B-11	Combustion
Carbon, Total Organic (TOC)	SW9060A	Combustion
Chloride	EPA300.0 Rev 2.1-1993	IC
Chloride	SW9056A	IC
Chromium VI, Dissolved	EPA218.6 Rev 3.3-1994	IC
Chromium VI, Dissolved	SM3500-Cr B-11	Spectrophotometric
Chromium VI, Dissolved	SW7196A	Spectrophotometric
Color	SM2120 B-11	Visual Comparison
Conductance, Specific	SM2510 B-11	Probe
Conductance, Specific	SW9050A	Probe
Cyanide, Amenable to Chlorination	SM4500-CN G-11	Digestion
Cyanide, Total	EPA335.4 Rev 1.0-1993	Spectrophotometric
Cyanide, Total	Kelada-01	Colorimetric
Cyanide, Total	SW9010C	Distillation
Cyanide, Total	SW9012B	Spectrophotometric
Cyanide, Weak Acid Dissociable	SM4500-CN I-11	Distillation
Fluoride	EPA300.0 Rev 2.1-1993	IC
Fluoride	SW9056A	IC
Hardness, Calcium	SM2340 B-11	Calculation
Hardness, Total	SM2340 B-11	Calculation
Hardness, Total	SM2340 C-11	Titrimetric
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrate	SW9056A	IC
Nitrate-Nitrite	EPA300.0 Rev 2.1-1993	Calculation
Nitrate-Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrate-Nitrite	SW9056A	Calculation

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrite	SM4500-NO2 B-11	Spectrophotometric
Nitrite	SW9056A	IC
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 G-11	Spectrophotometric
Nitrogen, Total Kjeldahl (TKN)	SM4500-Norg B-11	Digestion
Nitrogen, Total Kjeldahl (TKN)	SM4500-Norg C-11	Digestion
Oil & Grease	EPA1664 B	Gravimetric
Oxygen Demand, Biochemical (BOD)	SM5210 B-11	Probe
Oxygen Demand, Carbonaceous Biochemical (CBOD)	SM5210 B-11	Probe
Oxygen Demand, Chemical (COD)	EPA410.4 Rev 2.0-1993	Spectrophotometric
Oxygen Demand, Chemical (COD)	HACH 8000	Spectrophotometric
Perchlorate	EPA314	IC
Phenolics, Total	EPA420.4 Rev 1.0-1993	Spectrophotometric
Phenolics, Total	SW9066	Spectrophotometric
Phosphorus, Ortho	SM4500-P E-11	Spectrophotometric
Phosphorus, Total	EPA365.1 Rev 2.0-1993	Spectrophotometric
Silica	SM4500-SiO2 C-11	Spectrophotometric
Solids, Dissolved	SM2540 C-11	Gravimetric
Solids, Settleable	SM2540 F-11	Imhoff
Solids, Suspended	SM2540 D-11	Gravimetric
Solids, Total	SM2540 B-11	Gravimetric
Solids, Volatile	SM2540 E-11	Gravimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfate	SW9056A	IC
Sulfide	SM4500-S F-11	Titrimetric
Surfactants (MBAS)	SM5540 C-11	Spectrophotometric
Turbidity	SM2130 B-11	Turbidimetric

#### NONPOTABLE WATER TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	EPA200.7 Rev 4.4-1994	ICP
Aluminum	EPA200.8 Rev 5.4-1994	ICP-MS
Aluminum	SW6010C	ICP
Aluminum	SW6010D	ICP
Aluminum	SW6020A	ICP-MS
Aluminum	SW6020B	ICP-MS
Antimony	EPA200.7 Rev 4.4-1994	ICP
Antimony	EPA200.8 Rev 5.4-1994	ICP-MS
Antimony	SW6010C	ICP
Antimony	SW6010D	ICP
Antimony	SW6020A	ICP-MS
Antimony	SW6020B	ICP-MS
Arsenic	EPA200.7 Rev 4.4-1994	ICP
Arsenic	EPA200.8 Rev 5.4-1994	ICP-MS
Arsenic	SW6010C	ICP
Arsenic	SW6010D	ICP
Arsenic	SW6020A	ICP-MS
Arsenic	SW6020B	ICP-MS
Barium	EPA200.7 Rev 4.4-1994	ICP

METALMETHODTECHNOLOGY

Barium	EPA200.8 Rev 5.4-1994	ICP-MS
Barium	SW6010C	ICP
Barium	SW6010D	ICP
Barium	SW6020A	ICP-MS
Barium	SW6020B	ICP-MS
Beryllium	EPA200.7 Rev 4.4-1994	ICP
Beryllium	EPA200.8 Rev 5.4-1994	ICP-MS
Beryllium	SW6010C	ICP
Beryllium	SW6010D	ICP
Beryllium	SW6020A	ICP-MS
Beryllium	SW6020B	ICP-MS
Boron	EPA200.7 Rev 4.4-1994	ICP
Boron	SW6010C	ICP
Boron	SW6010D	ICP
Boron	SW6020B	ICP-MS
Cadmium	EPA200.7 Rev 4.4-1994	ICP
Cadmium	EPA200.8 Rev 5.4-1994	ICP-MS
Cadmium	SW6010C	ICP
Cadmium	SW6010D	ICP
Cadmium	SW6020A	ICP-MS
Cadmium	SW6020B	ICP-MS
Calcium	EPA200.7 Rev 4.4-1994	ICP
Calcium	EPA200.8 Rev 5.4-1994	ICP-MS
Calcium	SW6010C	ICP
Calcium	SW6010D	ICP
Calcium	SW6020A	ICP-MS
Calcium	SW6020B	ICP-MS
Chromium	EPA200.7 Rev 4.4-1994	ICP
Chromium	EPA200.8 Rev 5.4-1994	ICP-MS
Chromium	SW6010C	ICP
Chromium	SW6010D	ICP
Chromium	SW6020A	ICP-MS
Chromium	SW6020B	ICP-MS
Cobalt	EPA200.7 Rev 4.4-1994	ICP
Cobalt	EPA200.8 Rev 5.4-1994	ICP-MS
Cobalt	SW6010C	ICP
Cobalt	SW6010D	ICP
Cobalt	SW6020A	ICP-MS
Cobalt	SW6020B	ICP-MS
Copper	EPA200.7 Rev 4.4-1994	ICP
Copper	EPA200.8 Rev 5.4-1994	ICP-MS
Copper	SW6010C	ICP
Copper	SW6010D	ICP
Copper	SW6020A	ICP-MS
Copper	SW6020B	ICP-MS
Iron	EPA200.7 Rev 4.4-1994	ICP
Iron	EPA200.8 Rev 5.4-1994	ICP-MS
Iron	SW6010C	ICP
Iron	SW6010D	ICP
Iron	SW6020A	ICP-MS
Iron	SW6020B	ICP-MS
Lead	EPA200.7 Rev 4.4-1994	ICP

METALMETHODTECHNOLOGY

Lead	EPA200.8 Rev 5.4-1994	ICP-MS
Lead	SW6010C	ICP
Lead	SW6010D	ICP
Lead	SW6020A	ICP-MS
Lead	SW6020B	ICP-MS
Lithium	EPA200.7 Rev 4.4-1994	ICP
Lithium	SW6010C	ICP
Lithium	SW6010D	ICP
Lithium	SW6020B	ICP-MS
Magnesium	EPA200.7 Rev 4.4-1994	ICP
Magnesium	EPA200.8 Rev 5.4-1994	ICP-MS
Magnesium	SW6010C	ICP
Magnesium	SW6010D	ICP
Magnesium	SW6020A	ICP-MS
Magnesium	SW6020B	ICP-MS
Manganese	EPA200.7 Rev 4.4-1994	ICP
Manganese	EPA200.8 Rev 5.4-1994	ICP-MS
Manganese	SW6010C	ICP
Manganese	SW6010D	ICP
Manganese	SW6020A	ICP-MS
Manganese	SW6020B	ICP-MS
Mercury	EPA1631 E	CVAF
Mercury	EPA245.1 Rev 3.0-1994	CVAA
Mercury	SW6020A	ICP-MS
Mercury	SW6020B	ICP-MS
Mercury	SW7470A	CVAA
Metals	SW3015A	Digestion
Molybdenum	EPA200.7 Rev 4.4-1994	ICP
Molybdenum	EPA200.8 Rev 5.4-1994	ICP-MS
Molybdenum	SW6010C	ICP
Molybdenum	SW6010D	ICP
Molybdenum	SW6020A	ICP-MS
Molybdenum	SW6020B	ICP-MS
Nickel	EPA200.7 Rev 4.4-1994	ICP
Nickel	EPA200.8 Rev 5.4-1994	ICP-MS
Nickel	SW6010C	ICP
Nickel	SW6010D	ICP
Nickel	SW6020A	ICP-MS
Nickel	SW6020B	ICP-MS
Potassium	EPA200.7 Rev 4.4-1994	ICP
Potassium	EPA200.8 Rev 5.4-1994	ICP-MS
Potassium	SW6010C	ICP
Potassium	SW6010D	ICP
Potassium	SW6020A	ICP-MS
Potassium	SW6020B	ICP-MS
Selenium	EPA200.7 Rev 4.4-1994	ICP
Selenium	EPA200.8 Rev 5.4-1994	ICP-MS
Selenium	SW6010C	ICP
Selenium	SW6010D	ICP
Selenium	SW6020A	ICP-MS
Selenium	SW6020B	ICP-MS
Silicon	EPA200.7 Rev 4.4-1994	ICP

METALMETHODTECHNOLOGY

Silicon	SW6010C	ICP
Silicon	SW6010D	ICP
Silicon	SW6020A	ICP-MS
Silicon	SW6020B	ICP-MS
Silver	EPA200.7 Rev 4.4-1994	ICP
Silver	EPA200.8 Rev 5.4-1994	ICP-MS
Silver	SW6010C	ICP
Silver	SW6010D	ICP
Silver	SW6020A	ICP-MS
Silver	SW6020B	ICP-MS
Sodium	EPA200.7 Rev 4.4-1994	ICP
Sodium	EPA200.8 Rev 5.4-1994	ICP-MS
Sodium	SW6010C	ICP
Sodium	SW6010D	ICP
Sodium	SW6020A	ICP-MS
Sodium	SW6020B	ICP-MS
Strontium	EPA200.7 Rev 4.4-1994	ICP
Strontium	EPA200.8 Rev 5.4-1994	ICP-MS
Strontium	SW6010C	ICP
Strontium	SW6010D	ICP
Strontium	SW6020A	ICP-MS
Strontium	SW6020B	ICP-MS
Thallium	EPA200.7 Rev 4.4-1994	ICP
Thallium	EPA200.8 Rev 5.4-1994	ICP-MS
Thallium	SW6010C	ICP
Thallium	SW6010D	ICP
Thallium	SW6020A	ICP-MS
Thallium	SW6020B	ICP-MS
Tin	EPA200.7 Rev 4.4-1994	ICP
Tin	EPA200.8 Rev 5.4-1994	ICP-MS
Tin	SW6010C	ICP
Tin	SW6010D	ICP
Tin	SW6020A	ICP-MS
Tin	SW6020B	ICP-MS
Titanium	EPA200.7 Rev 4.4-1994	ICP
Titanium	EPA200.8 Rev 5.4-1994	ICP-MS
Titanium	SW6010C	ICP
Titanium	SW6010D	ICP
Titanium	SW6020A	ICP-MS
Titanium	SW6020B	ICP-MS
Uranium	EPA200.8 Rev 5.4-1994	ICP-MS
Uranium	SW6020A	ICP-MS
Uranium	SW6020B	ICP-MS
Vanadium	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.8 Rev 5.4-1994	ICP-MS
Vanadium	SW6010C	ICP
Vanadium	SW6010D	ICP
Vanadium	SW6020A	ICP-MS
Vanadium	SW6020B	ICP-MS
Zinc	EPA200.7 Rev 4.4-1994	ICP
Zinc	EPA200.8 Rev 5.4-1994	ICP-MS
Zinc	SW6010C	ICP

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Zinc	SW6010D	ICP
Zinc	SW6020A	ICP-MS
Zinc	SW6020B	ICP-MS

#### NONPOTABLE WATER MICROBIOLOGY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Coliform, Fecal (MF)	SM9222 D-06	Membrane Filter
Coliform, Fecal (MPN)	Colilert 18	Multiple Well
Coliform, Fecal (MPN)	SM9223 B-04	Multiple Tube
Coliform, Total (MPN)	Colilert	Multiple Well
Enterococci	SM9230 D-07	Multiple Well
Heterotrophic Plate Count (HPC)	SM9215 B-04	Pour Plate

#### NONPOTABLE WATER VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Dissolved Gases	ASTM D8028-17	GC
Purge & Trap For Aqueous Samples	SW5030B	Extraction
Purgeables	EPA624.1	GC/MS
Total Petroleum Hydrocarbons (GRO)	SW8015D	GC/FID
Volatile Organic Compounds	SW8260B	GC/MS
Volatile Organic Compounds	SW8260C	GC/MS

#### NONPOTABLE WATER EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Base/Neutrals & Acids	EPA625.1	GC/MS
Chlorinated Herbicides	SW8151A	GC
Florisil Cleanup	SW3620B	Cleanup
Microextraction	SW3511	Extraction
Nitroaromatics & Nitramines	SW8330B	HPLC
Organochlorine Pesticides	SW8081B	GC
Organochlorine Pesticides & PCBs	EPA608.3	GC
Polychlorinated Biphenyls	SW8082A	GC
Semivolatile Organic Compounds	SW8270D	GC/MS
Semivolatile Organic Compounds	SW8270D	SIM
Separatory Funnel Liquid-Liquid	SW3510C	Extraction
Silica Gel Cleanup	SW3630C	Cleanup
Sulfur Cleanup	SW3660B	Cleanup
Sulfuric Acid/Permanganate Cleanup	SW3665A	Cleanup
Total Petroleum Hydrocarbons (DRO)	SW8015D	GC/FID
Total Petroleum Hydrocarbons (ORO)	SW8015D	GC/FID



### HAZARDOUS WASTE CHARACTERISTICS

<u>PROCEDURE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Corrosivity	SW9040C	Electrode
Corrosivity	SW9045D	Electrode
Ignitability	SW1010A	Closed Cup
Ignitability (Solids)	SW1030	
Paint Filter Test	SW9095B	Gravimetric
TCLP- Metals	SW1311	Extraction
TCLP- Organics	SW1311	Extraction

### SOLID AND CHEMICAL INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Ammonia	SM4500-NH3 G-11	Spectrophotometric
Bromide	SW9056A	IC
Carbon, Total Organic (TOC)	SW9060A	Combustion
Chloride	SW9056A	IC
Chromium VI, Dissolved	SW7196A	Spectrophotometric
Cyanide, Total	SW9012B	Spectrophotometric
Fluoride	SW9056A	IC
Nitrate	SW9056A	IC
Nitrate-Nitrite	SW9056A	Calculation
Nitrite	SW9056A	IC
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 D-11	ISE
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 G-11	Spectrophotometric
Oil & Grease	SW9071B	Gravimetric
pH (Hydrogen Ion)	SW9045D	Electrode
Phenolics, Total	SW9066	Colorimetric
Phosphorus, Total	EPA365.1 Rev 2.0-1993	Spectrophotometric
Solids, Total, Fixed, & Volatile	SM2540 G-11	Gravimetric
Sulfate	SW9056A	IC

### SOLID AND CHEMICAL TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6010C	ICP
Aluminum	SW6010D	ICP
Aluminum	SW6020A	ICP-MS
Aluminum	SW6020B	ICP-MS
Antimony	SW6010C	ICP
Antimony	SW6010D	ICP
Antimony	SW6020A	ICP-MS
Antimony	SW6020B	ICP-MS
Arsenic	SW6010C	ICP
Arsenic	SW6010D	ICP
Arsenic	SW6020A	ICP-MS
Arsenic	SW6020B	ICP-MS
Barium	SW6010C	ICP
Barium	SW6010D	ICP
Barium	SW6020A	ICP-MS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Barium	SW6020B	ICP-MS
Beryllium	SW6010C	ICP
Beryllium	SW6010D	ICP
Beryllium	SW6020A	ICP-MS
Beryllium	SW6020B	ICP-MS
Boron	SW6010C	ICP
Boron	SW6010D	ICP
Cadmium	SW6010C	ICP
Cadmium	SW6010D	ICP
Cadmium	SW6020A	ICP-MS
Cadmium	SW6020B	ICP-MS
Calcium	SW6010C	ICP
Calcium	SW6010D	ICP
Calcium	SW6020A	ICP-MS
Calcium	SW6020B	ICP-MS
Chromium	SW6010C	ICP
Chromium	SW6010D	ICP
Chromium	SW6020A	ICP-MS
Chromium	SW6020B	ICP-MS
Cobalt	SW6010C	ICP
Cobalt	SW6010D	ICP
Cobalt	SW6020A	ICP-MS
Cobalt	SW6020B	ICP-MS
Copper	SW6010C	ICP
Copper	SW6010D	ICP
Copper	SW6020A	ICP-MS
Copper	SW6020B	ICP-MS
Iron	SW6010C	ICP
Iron	SW6010D	ICP
Iron	SW6020A	ICP-MS
Iron	SW6020B	ICP-MS
Lead	SW6010C	ICP
Lead	SW6010D	ICP
Lead	SW6020A	ICP-MS
Lead	SW6020B	ICP-MS
Lithium	SW6010C	ICP
Lithium	SW6010D	ICP
Magnesium	SW6010C	ICP
Magnesium	SW6010D	ICP
Magnesium	SW6020A	ICP-MS
Magnesium	SW6020B	ICP-MS
Manganese	SW6010C	ICP
Manganese	SW6010D	ICP
Manganese	SW6020A	ICP-MS
Manganese	SW6020B	ICP-MS
Mercury	SW6020A	ICP-MS
Mercury	SW6020B	ICP-MS
Mercury	SW7471B	CVAA
Metals, Total	SW3050B	Digestion
Metals, Total	SW3051A	Digestion
Molybdenum	SW6010C	ICP
Molybdenum	SW6010D	ICP

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Molybdenum	SW6020A	ICP-MS
Molybdenum	SW6020B	ICP-MS
Nickel	SW6010C	ICP
Nickel	SW6010D	ICP
Nickel	SW6020A	ICP-MS
Nickel	SW6020B	ICP-MS
Potassium	SW6010C	ICP
Potassium	SW6010D	ICP
Potassium	SW6020A	ICP-MS
Potassium	SW6020B	ICP-MS
Selenium	SW6010C	ICP
Selenium	SW6010D	ICP
Selenium	SW6020A	ICP-MS
Selenium	SW6020B	ICP-MS
Silicon	SW6010C	ICP
Silicon	SW6010D	ICP
Silver	SW6010C	ICP
Silver	SW6010D	ICP
Silver	SW6020A	ICP-MS
Silver	SW6020B	ICP-MS
Sodium	SW6010C	ICP
Sodium	SW6010D	ICP
Sodium	SW6020A	ICP-MS
Sodium	SW6020B	ICP-MS
Strontium	SW6010C	ICP
Strontium	SW6010D	ICP
Strontium	SW6020A	ICP-MS
Strontium	SW6020B	ICP-MS
Thallium	SW6010C	ICP
Thallium	SW6010D	ICP
Thallium	SW6020A	ICP-MS
Thallium	SW6020B	ICP-MS
Tin	SW6010C	ICP
Tin	SW6010D	ICP
Tin	SW6020A	ICP-MS
Tin	SW6020B	ICP-MS
Titanium	SW6010C	ICP
Titanium	SW6010D	ICP
Titanium	SW6020A	ICP-MS
Titanium	SW6020B	ICP-MS
Uranium	SW6010C	ICP
Uranium	SW6020A	ICP-MS
Uranium	SW6020B	ICP-MS
Vanadium	SW6010C	ICP
Vanadium	SW6010D	ICP
Vanadium	SW6020A	ICP-MS
Vanadium	SW6020B	ICP-MS
Zinc	SW6010C	ICP
Zinc	SW6010D	ICP
Zinc	SW6020A	ICP-MS
Zinc	SW6020B	ICP-MS

SOLID AND CHEMICAL MICROBIOLOGY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Coliform, Fecal (MF)	SM9222 D-06	Membrane Filter

SOLID AND CHEMICAL VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Closed System Purge & Trap	SW5035A	Extraction
Total Petroleum Hydrocarbons (GRO)	SW8015D	GC/FID
Volatile Organic Compounds	SW8260B	GC/MS
Volatile Organic Compounds	SW8260C	GC/MS

SOLID AND CHEMICAL EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Chlorinated Herbicides	SW8151A	GC/ECD
Florisol Cleanup	SW3620B	Cleanup
Microwave Extraction	SW3546	Extraction
Nitroaromatics & Nitramines	SW8330B	HPLC
Organochlorine Pesticides	SW8081B	GC
Polychlorinated Biphenyls	SW8082A	GC
Semivolatile Organic Compounds	SW8270D	GC/MS
Semivolatile Organic Compounds	SW8270D	SIM
Silica Gel Cleanup	SW3630C	Cleanup
Sulfur Cleanup	SW3660B	Cleanup
Sulfuric Acid/Permanganate Cleanup	SW3665A	Cleanup
Total Petroleum Hydrocarbons (DRO)	SW8015D	GC/FID
Total Petroleum Hydrocarbons (ORO)	SW8015D	GC/FID
Waste Dilution	SW3580A	Dilution

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires March 31, 2021.

Certificate No 343

 Issued on January 01, 2021

Justin Carpenter  
Program Manager

*This certified parameter list supersedes all previously issued parameter lists for this certificate number.*



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
09/30/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Marsh USA Inc. 2929 Allen Parkway, Suite 2500 Houston, TX 77019  CN101587812-Prof-Std-19-20	<b>CONTACT NAME:</b> PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS:	
	<b>INSURER(S) AFFORDING COVERAGE</b>	<b>NAIC #</b>
<b>INSURED</b> ALS Group USA, Corp. 10450 Stancliff Road Suite 210 Houston, TX 77099	<b>INSURER A :</b> XL Insurance Company SE	
	<b>INSURER B :</b> Starr Indemnity & Liability Company	
	<b>INSURER C :</b> N/A	
	<b>INSURER D :</b>	
	<b>INSURER E :</b>	
	<b>INSURER F :</b>	

**COVERAGES      CERTIFICATE NUMBER:** HOU-003676011-03      **REVISION NUMBER:** 6

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR		POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
		INSD	WVD					
A	COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR SIR: \$500,000  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			AU00001947LI20A	09/30/2020	09/30/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000	
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY			1000635729201	09/30/2020	09/30/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$	
	UMBRELLA LIAB EXCESS LIAB DED RETENTION \$						OCCUR CLAIMS-MADE EACH OCCURRENCE \$ AGGREGATE \$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) If yes, describe under DESCRIPTION OF OPERATIONS below			N/A			PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$	

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**

<b>CERTIFICATE HOLDER</b>  State of West Virginia 2019 Washington St., East Charleston, WV 25305	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE of Marsh USA Inc. Manashi Mukherjee <i>Manashi Mukherjee</i>
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West Virginia Ethics Commission  
**Disclosure of Interested Parties to Contracts**

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: ALS Environmental Address: 1740 Union Carbide Drive  
South Charleston, WV 25303

Name of Authorized Agent: Rebecca Kiser Address: 1740 Union Carbide Dr, South Charleston

Contract Number: \_\_\_\_\_ Contract Description: Inorganic : Organic Analysis Svcs

Governmental agency awarding contract: WVDEP

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

**1. Subcontractors or other entities performing work or service under the Contract**

Check here if none, otherwise list entity/individual names below.

**2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**

Check here if none, otherwise list entity/individual names below.

**3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**

Check here if none, otherwise list entity/individual names below.

Signature: Rebecca Kiser

Date Signed: 01.12.21

**Notary Verification**

State of West Virginia, County of Putnam:

I, Roseanna Marie Royal, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 12<sup>th</sup> day of January, 2021.

Roseanna Marie Royal  
Notary Public's Signature

**To be completed by State Agency:**

Date Received by State Agency: \_\_\_\_\_

Date submitted to Ethics Commission: \_\_\_\_\_

Governmental agency submitting Disclosure: \_\_\_\_\_



Exp. Aug. 10, 2025

STATE OF WEST VIRGINIA  
Purchasing Division

# PURCHASING AFFIDAVIT

**CONSTRUCTION CONTRACTS:** Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

**ALL CONTRACTS:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: ALS Group USA, Corp

Authorized Signature: Bebecca Wise Date: 01.12.21

State of West Virginia

County of Putnam, to-wit:

Taken, subscribed, and sworn to before me this 12<sup>th</sup> day of January, 2021.

My Commission expires August 10, 2025.



NOTARY PUBLIC Roseanna Marie Royal

REQUEST FOR QUOTATION  
Inorganic and Organic Analysis Services

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**SPECIFICATIONS**

**PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Department of Environmental Protection to establish an open-end contract for Inorganic and Organic Analysis Services. The Agency is combining two contracts, Inorganic Analysis and Organic Analysis, into one contract.

**Previous Solicitations:** CRFQ DEP 2000000035, Inorganic Analysis of Water and Soil Samples, opened on 05/18/2020 and CRFQ DEP1700000009, Organic Analysis of Water and Soil Samples, opened on 11/30/2016.

Vendors may view previous solicitation responses on the West Virginia Purchasing Bid Opening: [www.state.wv.us/admin/purchase/Bids/FY2020/BO20200520.html](http://www.state.wv.us/admin/purchase/Bids/FY2020/BO20200520.html) and <http://www.state.wv.us/admin/purchase/Bids/FY2017/BO20161130.html>.

Vendors are encouraged to review requirements carefully as some current requirements are different than previous solicitations.

1. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.
  - 1.1 **“Contract Item” or “Contract Items”** means the list of items identified in Section 2.1 below and on the Attachment C Pricing Pages.
  - 1.2 **“Dry Weight”** is when the laboratory has measured the moisture content of the sample, and calculated the concentration based on the percent solids present in the sample.
  - 1.3 **“EDD”** means Electronic Data Deliverable which is an electronic report that includes results of analytical tests performed (Excel Spreadsheets, PDF, Google Doc, etc.).
  - 1.4 **“MDL”** means Method Detection Limit which is a concentration limit set for sample testing as specified during award of contract.
  - 1.5 **“PQL”** means Practical Quantitation Limit which is a concentration limit set for sample testing as specified during award of contract.
  - 1.6 **“Pricing Pages”** means the schedule of prices, estimated order quantity, and totals contained in wvOASIS or attached hereto as Attachment C, and used to evaluate the Solicitation responses.
  - 1.7 **“Shewhart Quality Control Charts”** are graphical and analytic tools for monitoring process variation.
  - 1.8 **“Solicitation”** means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
  - 1.9 **“WV DEP”** means the West Virginia Department of Environmental Protection.



REQUEST FOR QUOTATION  
Inorganic and Organic Analysis Services

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**2. GENERAL REQUIREMENTS:**

**2.1 Contract Items and Mandatory Requirements:** Vendor shall provide Agency with the Contract Items listed below on an open-end and continuing basis. Contract Items must meet or exceed the mandatory requirements as shown below.

**2.1.1 Analysis of Soil Samples**

**2.1.1.1** The vendor laboratory must be certified by the WV DEP Water Resources Quality Assurance Program. This includes any laboratories to which analyses are subcontracted. WV DEP will verify certification and parameters prior to award of contract. Proper certification is essential to ensure the integrity of the test results.

**2.1.1.2** Notice of any changes to the vendor's certification status regarding any of the parameters that the vendor is certified to analyze for, must be submitted to the DEP, in writing, within ten (10) days of the time of status change. Failure to do so can result in cancellation of the contract.

**2.1.1.3** Vendor must list certification expiration date on each lab report. Must be able to verify that parameters and methods used for analysis have a valid certification at the time of testing.

**2.1.1.4** Must be accessible by telephone: twenty-four **(24) hours per day, seven (7) days per week.**

**2.1.1.5** Must be capable of attending and providing expert testimony in legal proceedings upon request.

**2.1.1.6** The vendor must follow the Quality Control and Analytical Procedures outlined in Attachment A for Inorganic Analysis and Attachment B for Organic Analysis.

**2.1.1.7** Vendors providing Organic Analysis Services must have a chemist on staff experienced in organic analysis and its interpretation.

**REQUEST FOR QUOTATION**  
**Inorganic and Organic Analysis Services**

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- 2.1.1.7.1** The chemist must have at minimum a bachelor's degree in chemistry and a minimum of two (2) years of experience in gas chromatography & mass spectrometry.
- 2.1.1.7.2** Vendor should provide a current résumé which includes information regarding the number of years of qualification, experience & training, and relevant professional education for everyone that will be assigned to work requested on this contract. References, documentation, or other information to confirm compliance with this experience requirement are preferred with the bid submission but may be requested after bid opening and prior to contract award.
- 2.1.1.8** The vendor is solely responsible for the satisfactory completion of the work. The vendor shall be responsible for ensuring that any subcontractor utilized has all the necessary permits, certifications (including WV State Laboratory certifications), experience and insurance to perform the work. All subcontractors must be approved by WV DEP before subcontractor initiates work. The vendor shall supply resumes and/or other documents to prove subcontractor's qualifications to complete the work, if requested. All work performed by a subcontractor must be appropriately annotated on any submitted documentation (report or EDD). WV DEP will consider the vendor to be the sole point of contact regarding authorized work under the contract: however, this provision does not prohibit the WV DEP from directly contacting subcontractors.
- 2.1.1.9** The vendor agrees that any and all data, analyses, materials, reports or other information, oral or written, prepared by the vendor with respect to this contract shall, except for information which has been publicly available, be treated as confidential and shall not be utilized, released, published, or disclosed by the vendor at any time for any purpose whatsoever other than to provide consultation or other service to the DEP.
- 2.1.1.10** The vendor shall provide sample containers (such as (1) liter cubitainers) and field preservatives (such as Nitric Acid in plastic 8ml vials and Sulfuric Acid in (8) ml glass or plastic vials) to the DEP at no charge, if requested by the DEP.

**REQUEST FOR QUOTATION**  
**Inorganic and Organic Analysis Services**

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- 2.1.1.11** The DEP may, at their discretion, choose to deliver samples to the vendor's establishment rather than having them picked up by or delivered to the vendor.
- 2.1.1.12** All unit pricing quoted must be based on standard turn-around time (not to exceed fourteen (14) calendar days) unless other arrangements have been made with a WV DEP office.
- 2.1.1.13** Upon awarding the contract, the vendor shall provide one copy of the method detection limits (MDLs) for all analytes for which the contract is awarded. Any updates to the MDLs during the life of this contract shall be provided to the DEP in writing within seven days of the update(s) completion.
- 2.1.1.14** Should MDLs lower than those listed on the contract be available, the vendor shall provide these lower detection levels when conducting analyses.
- 2.1.1.15** All soil sample analytical results shall be reported on a dry weigh basis.
- 2.1.1.16** The vendor shall provide at no additional cost, any requested quality control/calibration information associated with a particular sample. Quality control/calibration includes, but is not limited to, values of standards used in calibration, date of last calibration, correlation coefficients of calibration curves, instrument blank values, check standard values, spike/recovery values, duplicate values, dilution volumes, bench sheets, calculations and Shewhart quality control charts.
- 2.1.1.17** The vendor will provide DEP approved blank water (such as distilled, ionized, Type I water as long as there are no contaminants present in the water at detectable levels that would cause lab and field blanks to fail) to the DEP, at no charge, upon request.
- 2.1.1.18** Samples delivered by WVDEP shall be taken to the lab located closest to the sampling location that can conduct all necessary analysis. For samples to be picked up at the DEP Offices, DEP shall contact the lab that can conduct all necessary analysis at regulatory required MDLs that has the lowest unit price per pickup at that DEP Office location as established in the contract. DEP shall verify that these conditions have been met prior to issuing a release order for the services. Field staff shall determine whether sample is delivered to laboratory or picked up at an office location.

REQUEST FOR QUOTATION  
Inorganic and Organic Analysis Services

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**2.1.1.18.1** If vendor refuses a sample or cannot complete the analysis in the necessary timeframe DEP shall take samples to next closest or lowest bid vendor.

**3. CONTRACT AWARD:**

**3.1 Contract Award:** The Contract is intended to provide the Agency with a purchase price on all Contract Items the vendor can provide.

Award will be split if it is in the best interest of the WV DEP. Selection of the vendor to be used will be based on the closest location to sample site and/or WV DEP requesting office, then lowest to highest bid.

**3.2 Pricing Pages:** Attachment C Pricing Pages was created as MS Excel document. Vendor should complete the Attachment C Pricing Pages by filling in the “Unit Price” box with the price per unit. Unit Price shall be entered as dollars and cents (not percentage). The “Extended Amount” box is calculated by multiplying the “Unit Price” by the “Est. Quantity.” Vendor should include “Method #” (identifier), “Method Detection Limit (MDL),” “Practical Quantitation Limit (PQL),” and “Unit Price” for each parameter if required. Vendor shall not alter any of the already entered data in the spreadsheet. Vendor should complete the Pricing Pages in their entirety as failure to do so may result in Vendor’s bids being disqualified.

The Pricing Pages contain a list of the Contract Items and estimated yearly purchase volume. The estimated purchase volume for each item represents the approximate volume of anticipated purchases only. No future use of the Contract or any individual item is guaranteed or implied.

Vendor should electronically enter the information into the Pricing Pages through wvOASIS as an electronic document. Upload as .xlsx file in wvOASIS (not .pdf). In most cases, the Vendor can download an electronic copy of the Pricing Pages from wvOASIS or request one from the buyer listed.

**4. ORDERING AND PAYMENT:**

**4.1 Ordering:** Vendor shall accept orders through wvOASIS, regular mail, facsimile, e-mail, or any other written form of communication. Vendor may, but is not required to, accept on-line orders through a secure internet ordering portal/website. If Vendor has the ability to accept on-line orders, it should include in its response a brief description of how Agencies may utilize the on-line ordering system. Vendor shall ensure that its on-line ordering system is properly secured prior to processing Agency orders on-line.

**REQUEST FOR QUOTATION**  
**Inorganic and Organic Analysis Services**

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- 4.1.1** Agency will issue an Agency Delivery Order (ADO) for sampling. Agency must use the lowest bid Vendor closest to sample location. Agency must document in the ADO how selected Vendor was established and used.
- 4.2** **Payment:** Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia.
- 4.2.1** Vendor shall list the following on each invoice:
- 4.2.1.1** Vendor shall list individual line item numbers from the contract for each test.
- 4.2.1.2** Vendor shall list contract number.
- 4.2.1.3** Vendor shall list requesting employee or designated employee.
- 4.2.1.4** Vendor shall list Division, Program/Branch and Project submitted with analysis request.
- 4.2.1.5** Invoices shall be sent to the ordering office stated on the chain of custody form.
- 4.2.2** Failure to include these items on invoices shall result in delayed payment and possible request for revised invoice.

**5. DELIVERY AND RETURN:**

- 5.1** **Delivery Time:** Vendor shall deliver standard orders within fourteen (14) calendar days after orders are received. Vendor shall deliver emergency orders within one (1) calendar day after orders are received. Vendor shall ship all orders in accordance with the above schedule and shall not hold orders until a minimum delivery quantity is met.
- 5.2** **Late Delivery:** The Agency placing the order under this Contract must be notified in writing if orders will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for cancellation of the delayed order, and/or obtaining the items ordered from a third party.

Any Agency seeking to obtain items from a third party under this provision must first obtain approval of the Purchasing Division.

- 5.3** **Delivery Payment/Risk of Loss:** Standard order delivery shall be F.O.B. destination to the Agency's location. Vendor shall include the cost of standard order delivery charges in its bid pricing/discount and is not permitted to charge the Agency

**REQUEST FOR QUOTATION**  
**Inorganic and Organic Analysis Services**

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separately for such delivery. The Agency will pay delivery charges on all emergency orders provided that Vendor invoices those delivery costs as a separate charge with the original freight bill attached to the invoice.

**5.4 Return of Unacceptable Items:** If the Agency deems the Contract Items to be unacceptable, the Contract Items shall be returned to Vendor at Vendor's expense and with no restocking charge. Vendor shall either make arrangements for the return within five (5) days of being notified that items are unacceptable, or permit the Agency to arrange for the return and reimburse Agency for delivery expenses. If the original packaging cannot be utilized for the return, Vendor will supply the Agency with appropriate return packaging upon request. All returns of unacceptable items shall be F.O.B. the Agency's location. The returned product shall either be replaced, or the Agency shall receive a full credit or refund for the purchase price, at the Agency's discretion.

**5.4.1** If vendor provides analysis result that was not requested by employee, vendor shall not invoice DEP for that result.

**5.4.2** If upon receipt and inspection of lab results, results are deemed as not viable due to lab error DEP shall not be invoiced for that result.

**5.5 Return Due to Agency Error:** Items ordered in error by the Agency will be returned for credit within 30 days of receipt, F.O.B. Vendor's location. Vendor shall not charge a restocking fee if returned products are in a resalable condition. Items shall be deemed to be in a resalable condition if they are unused and in the original packaging. Any restocking fee for items not in a resalable condition shall be the lower of the Vendor's customary restocking fee or 5% of the total invoiced value of the returned items.

**6. VENDOR DEFAULT:**

**6.1** The following shall be considered a vendor default under this Contract.

**6.1.1** Failure to provide Contract Items in accordance with the requirements contained herein.

**6.1.2** Failure to comply with other specifications and requirements contained herein.

**6.1.3** Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.

**6.1.4** Failure to remedy deficient performance upon request.

REQUEST FOR QUOTATION  
Inorganic and Organic Analysis Services

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6.2 The following remedies shall be available to Agency upon default.

6.2.1 Immediate cancellation of the Contract.

6.2.2 Immediate cancellation of one or more release orders issued under this Contract.

6.2.3 Any other remedies available in law or equity.

7. MISCELLANEOUS:

7.1 **No Substitutions:** Vendor shall supply only Contract Items submitted in response to the Solicitation unless a contract modification is approved in accordance with the provisions contained in this Contract.

7.2 **Vendor Supply:** Vendor must carry sufficient inventory of the Contract Items being offered to fulfill its obligations under this Contract. By signing its bid, Vendor certifies that it can supply the Contract Items contained in its bid response.

7.3 **Reports:** Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased upon request. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.

7.4 **Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Rebecca Kiser

Telephone Number: 304-356-3168

Fax Number: N/A

Email Address: rebecca.kiser@alsglobal.com

## Attachment A- Inorganic Analysis Guidelines

In administering and enforcing most of the pollution control laws of the state, the importance of quality control cannot be overstated. Quality control measures must be strictly adhered to in all phases of sample collection, preservation, transportation, and analysis. The quality control and analytical processes, as they relate to the vendor's responsibility, are divided into four (4) major steps:

**Step 1 – Collection of sample from specified office.**

**Step 2 – Conduct specified analysis on samples in a timely and professional manner.**

**Step 3 - Establishment of continuing program to ensure the reliability of analytical data.**

**Step 4 – Legal Testimony**

### **Step 1 – Collection of Samples from Specified Office**

The sampling for the DEP shall be conducted by Department personnel. The vendor shall be notified of the date sampling occurs /is to occur and from which DEP office or other location the sample can be obtained. The vendor shall be notified when the sample was taken (time/date) and the person who collected the sample. The vendor shall be responsible for obtaining the sample from the specified office and delivery of sample to the laboratory within 24 hours from the time of sampling unless the test must take place sooner in order to preserve sample integrity. The vendor shall indicate the time the sample was obtained from the pickup location and its condition and the time the sample was delivered to the laboratory. The vendor shall be responsible for adhering to holding times, checking the adequacy of, and maintaining preserved samples, and the internal chain of custody from the time the vendor obtained the sample until the time the analysis is accepted by the Department. The vendor shall also maintain records of the results of analysis for a minimum of five (5) years.

### **Step 2 - Conduct Specified Analysis on Samples**

The methods used by the laboratory for the analysis shall be either 1) Methods described in 40 CFR-136 or 2) Test Methods for Evaluating Solid Waste - Physical/Chemical Methods (SW-846) Third Edition, with updates. The sampler shall be responsible for specifying either 1 or 2 above. In the event the method is not specified, the laboratory shall contact the sampler for verification of the method to be used.

Vendors must include the analysis method number on the bid sheet. A single analytical method for some parameters is not adequate, for example, a sample of discharge water from a sewage treatment plant need not have the same detection limit as a sample from relatively clean oligotrophic waters. If the vendor submits bids for an alternate method, the analysis method number, MDL and PQL must be included on the bid sheet. If vendors are certified for more than 2 methods for a parameter, the vendor can provide bids and associated information on a separate page if necessary.

Results of analytical tests must be submitted as both an analysis report and as an Electronic Data Deliverable (EDD). Acceptable analysis report formats include either a paper hardcopy or electronic version of the report (e.g., pdf). All EDDs should be submitted in a Microsoft Excel



## Attachment A- Inorganic Analysis Guidelines

(or compatible) format and conform the DEP program approved template. Where provided, the vendor must include all appropriate data fields from the original COC that documents the identity of the sample with the data submitted. This electronic data submittal requirement may be waived in some circumstances where the number of samples and/or number of analytical tests requested is low. Waiver must be requested prior to data submittal.

Analysis of samples is not deemed completed until the data has been submitted to and accepted by DEP. Should the DEP not provide notice of acceptance within four weeks of the date results were received, the vendor may consider the data to be acceptable by the Department. The vendor shall be responsible for maintaining preservation of the samples until the holding time is exceeded. Any samples with a sheen, discoloration or odor shall be maintained by the vendor until DEP's notification that the sample can be properly disposed of. DEP will advise the vendor which samples fall into this category. The vendor shall be responsible for the proper disposal of all samples submitted to them by the DEP unless otherwise notified. The vendor shall dispose of the sample no earlier than four weeks after DEP accepts the results. The results of the analysis shall be submitted to the DEP no more than two (2) weeks after receipt of samples unless other arrangements have been made with WV DEP.

### Step 3 - Quality Control

Three programs are to be utilized to assure reliable laboratory data: (1) the use and documentation of standard analytical methods, (2) analysis of duplicate and spiked (where the concept applies) samples at regular intervals each day to check analytical precision and accuracy, and (3) analysis of reference samples at 6 (six) month intervals. These analyses shall be conducted under the vendor's performance test number through an EPS-approved PT provider. Regardless of which analytical methods are used in a laboratory, the methodology must be carefully documented. Analytical methods which have been modified or entirely replaced because of recent advances in the state of art may only be used when it has been given approval in the Federal Register. Documentation of procedures must be clear, honest, and adequately referenced; and the procedures shall be applied exactly as documented. The responsibility for legally-defensible results obtained from these procedures rests with the analyst and supervisor, both as representatives of the laboratory.

To check the laboratory analytical precision, duplicate analysis of samples shall be performed at regular intervals. Duplicate samples must be carried through the complete analytical process. For all analyses, the interval shall be every tenth (10th) sample. When less than ten (10) samples are tested in an analytical batch, at least one duplicate sample shall be analyzed, and that sample must be a DEP sample. The difference between the replicates for each analysis is to be plotted on Shewhart precision quality control charts. If the Shewhart chart indicates the samples are not in control, the analyses are to be repeated and appropriate steps shall be taken to locate and remedy the error. Quality control limits used by the laboratory to assess method compliance cannot be broader than those specified by the analytical method of 47CSR32 where applicable.

To check the laboratory analytical accuracy, samples containing a known addition of the target analyte (spike) shall be analyzed at regular intervals. Spiked samples must be carried through

## Attachment A- Inorganic Analysis Guidelines

the complete analytical process. For all analyses, the interval shall be every tenth (10th) sample. Where less than ten samples are tested in an analytical batch, at least one spiked sample shall be analyzed, and that sample must be a DEP sample. The percent recovery must be plotted out on Shewhart accuracy quality control charts. If the Shewhart chart indicates the samples are not in control, the analyses are to be repeated and appropriate steps taken to locate and remedy the source of error. Quality control limits used by the laboratory to assess the method compliance cannot be broader than those specified by the analytical method or 47CSR32 where applicable.

If the analyte of interest is detected in the laboratory Method Blank (MB) or Continuing Calibration Blank (CCB) above the Method Detection Limit (MDL), corrective action is to be taken to identify and alleviate the laboratory contamination and sample analysis is to be repeated. If sample analysis cannot be repeated for any reason including, but not limited to, inadequate remaining sample volume, expired holding time or equipment failure, and the laboratory chooses to report the original analytical data, all sample results associated with the contaminated MB and/or CCB must be qualified in the final report.

If the percent recovery of a known laboratory control standard such as a Laboratory Control Sample (LCS) or Continuing Calibration Verification (CCV) is outside of method-defined control limits (or those defined in 47CSR32 where appropriate) corrective action is to be taken to identify and alleviate the issue and sample analysis is to be repeated. If sample analysis cannot be repeated for any reason including inadequate remaining sample volume, expired holding time of equipment failure and the laboratory chooses to report the analytical data, all sample results associated with the failing quality control must be qualified in the final report.

In addition to the above requirements, all applicable requirements of the analytical methods, 40CFR136, 47CFR32 and the West Virginia DEP's Laboratory Certification program must be adhered to. In the event that any of these requirements are not met, all affected data must be appropriately qualified by the laboratory in the final report. It is the responsibility of the laboratory to provide all necessary information so data usability can be determined by the DEP.

All samples submitted to the laboratory are to be handed, prepared and analyzed in the same manner consistent with the method. Corrective action is to be initiated when a QC check exceeds acceptance limits.

The DEP reserves the right to conduct unannounced examinations of the laboratory's records. Periodic submission of samples with known composition will occur. No notice of this activity will be provided unless results indicate an anomaly.

### **Step 4 - Legal Testimony**

The selected vendor or vendors may be requested by the DEP to testify concerning the validity of the laboratory analysis. The vendor will only be required to testify to the following areas:

1. Time of notification by Department of sampling and by whom.
2. When and where samples were received by the laboratory's courier and/or by the laboratory's facility.

## Attachment A- Inorganic Analysis Guidelines

3. Condition of sample upon receipt by the laboratory.
4. How sample preservation was maintained by the laboratory.
5. Date and time(s) of analysis and by whom.
6. Chain of Custody procedures within the laboratory
7. Methods used.
8. Results of analysis.

At no time will the firm respond to questions concerning interpretation of results. The Department shall reimburse the vendor for the costs of any such testimony. The vendor must provide a detailed invoice of actual costs incurred.