

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

Request for

DEP15037

ADDRESS CORRESPONDENCE TO ATTENTION OF

CHUCK BOWMAN 3<u>04-558-2157</u>

304-255-2500 REI CONSULTANTS INC

PO BOX 286

*709054747

BEAVER WV 25813

ENVIRONMENTAL PROTECTION DEPARTMENT OF OFFICE OF WATER RESOURCES 601 57TH STREET SE CHARLESTON, WV 25304 304-926-0499

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. FREIGHT TERMS 10/27/2010 BID OPENING DATE: 11/17/2010 BID OPENING TIME 01 · 30PM LINE QUANTITY UOP. ITEM NUMBER UNIT PRICE AMOUNT ** ADDENDUM NO. 5 ************* ADDENDUM ISSUED FOR THE WATER/SOIL TESTING CONTRACT TO DISTRIBUTE THE REVISED SPECIFICATIONS, APPENDIX A, APPENDIX B, AND THE NEW BID SCHEDULE PER THE ATTACHED. BID OPENING DATE AND TIME ARE EXTENDED FROM 10/28/10 то 11/17/201d ат 1:30 ₽м. *************** NO OTHER CHANGES ************** RECEIVED 2010 MOY 16 AM 9: 22 MA BUDARA 19 d001 LS 961-48 GENERAL ANALYSIS OF WATER AND SOIL FIELD TESTING SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE ADDRESS CHANGES TO BE NOTED ABOVE 55-0668654

Page | 1 AREA OF WORK

Bids should be submitted by vendors in connection with the costs associated with collection from all Department of Environmental Protection (DEP) offices as listed herein. Awards will be made to all laboratories possessing a current valid West Virginia DEP Laboratory Quality Assurance certification for the appropriate categories of parameters and meeting the qualifications listed below. Because of the short holding times for certain parameters and the desire to avoid multiple labs analyzing samples from individual sites, work will be distributed based on

proximity of lab to sample collection location, overall costs for parameters being requested, and the ability of labs to analyze all requested parameters (i.e., certified for all requested parameters). Costs to pickup samples from DEP personnel will also be taken into consideration.

Bidding should be done for each analyte within a specific method. Prices should also be given for liquid and solid samples. If vendor is certified for more than one method per parameter, include method#, MDL and cost. Bids must be submitted exactly as per attached bid sheet.

QUALIFICATIONS

The DEP conducts inspections of permitted and non-permitted facilities, investigates complaints, monitors ambient quality of surface water, groundwater and sediments, performs studies, and provides water quality information to the citizens of West Virginia and other government agencies. Legal action based upon analytic results is possible. Therefore, the vendor or vendors selected must have a quality control program in place and meet the following qualifications:

- 1. The laboratory must be certified by the Water Resources Quality Assurance Program. This includes any laboratories to which analyses are subcontracted.
- 2. Be accessible by telephone 24 hours per day, 7 days per week.
- 3. Capable of attending and providing expert testimony in legal proceeding, upon request.
- 4. Proof of certification and staff chemist(s) resume(s) must be provided at the time of bid.

SCOPE

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 work, as they relate to the contractor's responsibility, is 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 or 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) for circumstances when holding times for parameters to be analyzed are less than seven (7) days. 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 holding times, preservation of the sample 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 complete the column in Appendix A with the method # associated with methods that have current MDLs that meet or are below the maximum MDL listed for each parameter. A single analytical method for some parameters isn't adequate, for example, a sample of discharge water from a sewage treatment plant need not have the same precision as a sample from relatively clean oligotrophic waters. If vendors are certified for more than 2 methods for a parameter, the vendor can provide bids and associated information on a separate page.

Vendors must provide a single bid for the cost of the analysis and reporting for the Phase 1 Detection Monitoring constituent lists described in the bid sheet.

Results of analytical tests must be submitted electronically in a Microsoft Excel (or compatible) format. Where provided, the vendor must include the WQ ID number 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 mailed, the vendor may consider the data to be acceptable by the Division. 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 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.

Page | 3 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*. Regardless of which analytical methods are used in a laboratory, the methodology must be carefully documented. Standard 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 results obtained from these procedures rests with the analyst and supervisor, both as representatives of the firm.

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 one day, at least one duplicate sample shall be analyzed, and that sample must be a DEP sample. The difference between the replicates for each analysis are to be plotted on Shewart precision quality control charts. "Out-of -Control" samples are to be repeated and appropriate steps shall be taken to locate and remedy the error.

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 the complete analytical process. For all analyses, the interval shall be every tenth (10th) sample. Where less than ten samples are tested in one day, at least one spiked sample shall be analyzed, and that sample must be a DEP sample. The percent recovery must be plotted out on Shewart accuracy quality control charts. "Out-of-Control" samples are to be repeated and appropriate steps taken to locate and remedy the source of error. The DEP reserves the right to conduct unannounced examinations of the laboratory's records to assure compliance.

Periodic submission of samples with known composition will occur. No notice of this activity will be provided unless results indicate an anomaly.

^{*}These analyses shall be conducted under the vendor's performance evaluation test number through the Analytical Products Group.

Page 4

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 collected by the firm.
- 3. Condition of sample.
- 4. How sample was preserved by the firm.
- 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.

PRIME VENDOR RESPONSIBILITIES

A vendor who is awarded a contract, when performing work under the terms and conditions of this contract, is solely responsible for the satisfactory completion of the work. The vendor shall be responsible for ensuring that any subcontractors have all the necessary permits, certifications (including WV State Laboratory Certification) and insurance to perform the work. DEP will consider the prime vendor to be the sole point of contact with regard to authorized work under the contract, however this provision does not prohibit the DEP from directly contacting subcontractors.

SUBCONTRACTORS

The prime vendor shall not be allowed to subcontract any work or services under this contract to any other person, company, corporation, firm, organization or agency without prior written approval of the DEP.

CONFIDENTIALITY

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 requisition shall, except for information which has been made 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 DEP.

Page | 5

MISCELLANEOUS PROVISIONS

- 1. The DEP will provide all sample containers and field preservatives.
- 2. 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.
- 3. Any updates to the MDLs during the life of this contract shall be provided to the DEP, in writing within one week of the update(s) completion.
- 4. The vendor shall provide at no additional cost, any requested quality control/calibration information associated with a particular sample. Quality control/calibration information 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 Shewart quality control charts.
- 5. Notice of any changes to the vendor's certification status with regard to any of the parameters that the vendor is certified to analyze for, must be submitted to DEP, in writing, within ten (10) days of the time of status change.
- 6. The laboratory will provide blank water to the DEP, at no charge, upon request.

Appendix A - Method

Item No.	Parameter	Associated MDL*	Wethod #	Alt Method #	Alt MDL
1	рН	N/A	SM4500-H+B		
2	Hot Acidity	5 mg/L	SM2310B		
3	Alkalinity	5 mg/L	SM2320B		
4	Hardness	1 mg/L	2340B	·	
5	Specific Conductance	3 μS/cm²	SM2510B		
6	Sulfate	5 mg/L	EPA300.0		
7	Sulfide	1 mg/L	SW9034		
8	Turbidity	1 NTU (higher OK if if highly turbid)	EPA180.1		
9	Bromide	1 mg/L	EPA300.0		
10	Chloride	5 mg/L	EPA300.0		
11	Fluoride	0.2 mg/L	EPA300.0		
12	Fecal Coliform (MF)	4 col/100 ml	SM922D		
13	Fecal Coliform (MPN)	4 col/100 ml	SM9223B-QT		
14	Total Solids	1 mg/L	SM2540B		
15	Dissolved Solids (TDS)	1 mg/L	SM2540C		
16	Suspended Solids (TSS)	3 mg/L	SM2540D		
17	Settleable Solids	0.5 mg/L	SM2540F		
18	Volatile Solids	1 mg/L	SM2540E		
19	Percent Solids	1%	SM2540G		
20	Kjeldahl Nitrogen	0.5 mg/L	SM4500-Nor	gC	
20A	Kjeldahl Nitrogen (alt. method)	_	EPA351.2	-	
21	Ammonia Nitrogen	0.1 mg/L	EPA350.1		
22	Organic Nitrogen	0.5 mg/L	EPA351.2/3	50.1	
23	Nitrate-Nitrogen	0.05 mg/L	EPA300.0		
24	Nitrite-Nitrogen	0.05 mg/L	EPA300.0		
25	Nitrite-Nitrate	0.05 mg/L	EPA300.0		
25A	Nitrite-Nitrate (alt method)	0.01 mg/L	N/A		
26	Total Phosphorus	0.02 mg/L	SM4500-P B	E	
26A	Total Phosphorus (alt. method)	0.005 mg/L	N/A		
27	Orthophosphate	0.01 mg/L	EPA300.0		
28	Total Phosphate	0.01 mg/L	SM4500-P B	E	

Appendix A - Method (Continued)

Item No.	Parameter	Associated MDL	Method #	Alt Method #	Alt MDL
29	BOD	1 mg/L	SM5210B		
30	BOD-carbonaceous	1 mg/L	SM5210B	•	
31	COD	0.5 mg/L	EPA410.4		
32	тос	1 mg/L	SM5310C		
33	MBAS	0.05 mg/L	SM5540C		
34	Phenolics	0.01 mg/L	EPA420.1		
35	Total Cyanide	0.005 mg/L	EPA335.4		
36	Hexavalent Chromium	0.005 mg/L	SM3500-Crt		
37	Oil-Grease	0.1 mg/L	EPA1664A		***************************************
	Chlorophyll A (Standard Methods)	0.5 mg/L	EPA446.0		
38	Color (APHA)	5 color units	SM2120B		
39	Color (ADMI)	10 ADMI value	SM2120E		
40 41	Cyanide, Amenable (40 CSR 136)	0.005 mg/L	EPA335.4		
42	Cyanide, Free (ASTM)	0.01 mg/L	EPA335.4		
43	Mineral Acidity (Standard Methods)	1 mg/L	SM2310B		
44	Total Acidity (Standard Methods)	1 mg/L	SM2310B		
45	Tot Petroleum Hydrocarbons GRO/DRO (WVTPH/8015B)	0.5 mg/L	SW8015B		
46	Fecal Streptococci (Standard Methods)	4 col/100 mL	SM9230C		
47	Escherichia Coli (Numeric Result)	1 col/100 mL	SM9223B-QT		
48	Bicarbonate (Standard Methods)	1 mg/L	SM2320B		
49	Ferrous Iron(Standard Methods)	0.05 mg/L	SM3500-FeD		
50	Unionized Ammonia (46 CSR 1)	0.1 mg/L	EPA350.1		
51	Dissolved Organic Carbon (Standard Methods)	1 mg/L	SM5310C		
52	Particulate Organic Carbon (Standard Methods)	1 mg/L	SM5310C		

Appendix A - Method (Continued)

Metals (Dissolved or Total)

(dissolved metals will be field filtered)

Item No.	Parameter	Associated MDL (mg/L)	Method #	Alt Wethod #	Alt MDL	
53	Aluminum	0.005	EPA200.7	N/A	N/A	
54	Antimony	0.005	EPA200.7	EPA200.8	0.0002	
55	Arsenic	0.005	EPA200.7	EPA200.8	0.001	
56	 Barium	0.005	EPA200.7	EPA200.8	0.001	
57	Beryllium	0.001	EPA200.7	EPA200.8	0.002	
58	Boron	0.02	EPA200.7	N/A	N/A	
59	Cadmium	0.0002	EPA200.7	EPA200.8	0.0002	
60	Calcium	0.02	EPA200.7	N/A	N/A	
61	Chromium	0.001	EPA200.7	EPA200.8	0.001	
62	Cobalt	0.001	EPA200.7	EPA200.8	0.001	
63	Copper	0.001	EPA200.7	EPA200.8	0.001	
64	Iron	0.01	EPA200.7	N/A	N/A	
65	Lead	0.001	EPA200.7	EPA200.8	0.0002	
	Magnesium	0.05	EPA200.7	N/A	N/A	
67	Manganese	0.005	EPA200.7	EPA200.8	0.001	
68	Mercury	0.5 (ng/L)	1631E	 Method 1631-E		
68A	Mercury (alt. method)	0.0001	EPA245.1	N/A	N/A	
	Molybdenum	0.005	i	EPA200.8	0.001	
	Nickel	0.005	EPA200.7	EPA200.8	0.0002	
	Potassium	0.05	EPA200.7	N/A	N/A	
	Selenium	0.001	EPA200.7 S	 M3114B/SW77	42M 0.0	
	Silver	0.0002	EPA200.7	EPA200.8	0.001	
	Sodium	0.05		N/A	N/A	
	Thallium	0.001	EPA200.7	EPA200.8	0.002	
	Tin	0.02	EPA200.7	EPA200.8	0.001	
	Vanadium	0.005	EPA200.7	EPA200.8	0.001	
	Zinc	0.002		EPA200.8	0.003	
	N/A	N/A	N/A	N/A	N/A	

Appendix A - Method (Continued)

Radiochemistry

Item No.	Parameter	Associated MDL	Method #	Alt Method #	AR MDL
80	Gross Alpha		EPA900.0		
81	Gross Beta		EPA900.0		
82	Ra - 226		EPA903.1		
83	Ra -228		EPA904.0		
84	Total Urainum		ASTM D5174		
85	Sr-89		EPA905.0		
86	Sr-90		EPA905.0		
87	Tritium (H3)		EPA906.0		
88	Gamma (Cs-137)		EPA901.1		
89	Radon		SM7500-Rn		

Toxicity Testing - Freshwater organisms

	· · · · · · · · · · · · · · · · · · ·	,	
Item No.	Test	Est.#	Method #
	Acute:		
90	Ceriodaphnia	25	2002.0
91	Daphnia Pulex / D. magna	10	2021.0
92	Pimephales promelas	25	2000.0
	Chronic:		
93	Ceriodaphnia	25	1002.0
94	Pimephales promelas (Survival & growth)	25	1000.0
95	Pimephales promelas (Survival & teratogenicity)	25	1001.0

Appendix B

Constituents for Phase I Detection Monitoring GROUP A: Inorganic Constituents

COMMON NAME ²	CAS RN ³
Acidity	(Total)
Aluminum	(Total) id as package
Alkalinity	(Total) (Groups A and B combined)
Ammonia Nitrogen	(Total)
Antimony	(Total)
Arsenic	(Total)
Barium	(Total)
Beryllium	(Total)
Bicarbonates	(mg/l)
Boron	(Total)
Cadmium	(Total)
Chlorides	(Total)
Chromium	(Total)
Cobalt	(Total)
COD	(mg/l)
Copper	(Total)
Dissolved Manganese	(Total)
Iron	(Total)
Lead	(Total)
Magnesium	(Total)
Mercury	(Total)
Molybdenum	(Total)
Nickel	(Total)
Nitrate	(Total)
pH	(Std. Units)
Potassium	(Total)
Selenium	(Total)
Silver	(Total)
Sodium	(Total)
Specific Conductance	(umhos/cm)
Sulfate	(Total)
TDS	(mg/l)
Thallium	(Total)
TOC	(mg/l)
Total Phenolic Materials	(Total)
TSS	(Total)
Turbidity	(Total)
Vanadium	(Total)
Zinc	(Total)

In addition to the above, the following parameters should be analyzed: Temperature, (BOD-5-day), flouride and calcium.

GROUP B: Organic Constituents¹

THE TIME THE COMMENTS	
COMMON NAME ²	CAS RN ³
Acetone	67-64-1
Acrylonitrile	107-13-1
Benzene	71-43-2
Bromochloromethane	74-97-5
Bromodichloromethane	75-27-4
Bromoform; Tribromomethane	75-25-2
Carbon disulfide	75-15-0
Carbon tetrachloride	56-23-5
Chlorobenzene	108-90-7
Chloroethane; Ethyl chloride	75-00-3
Chloroform; Trichloromethane	67-66-3
Dibromochloromethane; Chlorodibromome	tl 124-48-1
1,2-Dibromo-3-chloropropane;DBCP	96-12-8
1,2,-Dibromoethane; Ethylene dibromide; E	I 106-93-4
o-Dichlorobenzene; 1,2-Dichlorobenzene	95-50-1
p-Dichlorobenzene; 1,4-Dichlorobenzene	106-46-7
trans-1,4-Dichloro-2-butene	110-57-6
1,1-Dichloroethane; Ethylidene chloride	75-34-3
1,2-Dichlorethanel Ethylene dichloride	107-06-2
1,1-Dichloroethylene; 1,1-Dichloroethene;	7i 75-35-4
cis-1,2-Dichlorethylene; cis-1,2-Dichloroeth	
trans-1,2-Dichloroethylene; trans-1,2-Dichloroethylene	
1,2-Dichloropropane; Propylene dichloride	78-87-5
cis-1,3-Dichloropropene	10061-01-5
trans-1,3-Dichloropropene	10061-02-6
Ethylbenzene	100-41-4
2-Hexanone; Methyl butyl ketone	591-78-6
Methyl bromide; Bromomethane	74-83-9
Methyl chloride; Chloromethane	74-87-3
Methylene bromide; Dibromomethane	74-95-3
Methylene chloride; Dichloromethane	75-09-2
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3
Methyl iodide; Iodomethane	74-88-4
4-Methyl-2-pentanone; Methyl isobutyl keto	
Styrene	100-42-5
1,1,1,2-Tetrachloroethane	630-20-6
1,1,2,2-Tetrachloroethane	79-34-5
Tetrachloroethylene; Perchloroethylene	127-18-4
Toluene	
	108-88-3
1,1,1-Trichloroethane; Methyichloroform	71-55-6
1,1,2-Trichloroethane	79-00-5
Trichloroethylene; Trichloroethene	79-01-6
Trichlorofluoromethane; CFC-ll	75-69-4
1,2,3-Trich1oropropane	96-18-4
Vinyl acetate	108-05-4
Vinyl chloride	75-01-4
Xylenes	1330-20-7

- 1. This list contains volatile organics for which possible analytical procedures provided in EPA Report SW-846 "Test Methods for Evaluating Solid Waste", third edition, November 1986, as revised December 1987, includes Method 8260 and 8011; and metals for which SW-846 provides either Method 6010 or a method from the 7000 series of methods.
- 2. Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.
- 3. Chemical Abstracts Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.

ANALYSIS OF WATER AND SOIL DEP15037

Vendor's Bid Sheet

Vendors Name: REI Consultants, Inc.

The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

	Liquid Samples							
ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Dection Level*	UNIT PRICE	AMOUNT		
1	4000	рН	SM4500-H	+B N/A	\$ 6.00	\$24000.00		
1A	10	pH (Solid)	SW9045C	N/A	\$ 6.00	\$ 60.00		
2	4000	Hot Acidity	SM2310B	5 mg/l	\$ 12.00	\$48000.00		
2A	1000	Hot Acidity Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
3	4000	Alkalinity	SM2320B	5 mg/L	\$ 10.00	\$40000.00		
3A	1000	Alkalinity Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
4	500	Hardness	SM2340B	1 mg/L	\$10.00	\$10000.00		
4A	100	Hardness Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
4B	10	Hardness (Solid)	N/A	N/A	\$ N/A	\$ N/A		
5	1000	Specific Conductance	SM2510B	3 uS/cm ²	\$10.00	\$10000.00		
5A	500	Specific Conductance Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
6	4000	Sulfate	EPA300.0	5 mg/L	\$12.00	\$48000.00		
6A	1000	Sulfate Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
6B	10	Sulfate (Solid)	SW9056	10mg/kg	\$12.00	\$ 120.00		
7	20	Sulfide	SW9034	1 mg/L	\$15.00	\$ 300 00		
7A	10	Sulfide Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
8	20	Turbidity	EPA180.1	1 NTU (higher OK if highly turbid)	_{\$} 10.00	\$ 200.00		
8A	10	Turbidity Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
9	25	Bromide	EPA300.0	1 mg/L	\$12.00	\$ 300.00		
9A	10	Bromide Alt. Method	N/A	0.1 mg/L	\$ N/A	\$ N/A		
9B	10	Bronide (Solid)	SW9056	0.0mg/kg	\$12.00	\$ 120.00		
10	3000	Chloride	EPA300.0	5 mg/L	\$12.00	\$36000.00		
10A	100	Chloride Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
10B	10	Chloride (Solid)	SW9056	1.0mg/kg	\$12.00	\$ 120.00		
11	25	Fluoride	EPA300.0	0.2 mg/L	\$12.00	\$ 300.00		
11A	10	Fluoride Alt. Method	SW4500-FE	C 0.01	\$12.00	\$ 120.00		
11B	10	Fluoride (Solid)	SW9056	0.5 mg/kg	\$12.00	\$ 120.00		
12	4000	Fecal Coliform (MF)	SM9222D	4 col/100 mL	\$18.00	\$2000.00		
12A	1000	Fecal Coliform (MF) Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
13	100	Fecal Coliform (MPN)	SM9223B-Q	T 4 col/100 mL	\$35.00	\$ 3500.00		
13A	50	Fecal Coliform (MPN) Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
14	25	Total Solids	SM2540B	1 mg/L	\$10.00	\$ 250.00		
14A	10	Total Solids Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
14B	10	Total Solide (Solid)	SM2540G	1mg/kg	\$10.00	\$ 100.00		
15	3000	Dissolved Solids (TDS)	SM2540C	1 mg/L	\$ 10.00	\$30000.00		
15A	1000	Dissolved Solids (TDS) Alt. Method	N/A	N/A	\$ N/A	\$ N/A		
16	4000	Suspended Solids (TSS)	SM2540D	3 mg/L	\$ 10.00	\$40000.00		
16A	1000	Suspended Solids (TSS) Alt. Method	N/A	N/A	\$ N/A	\$ N/A		

ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Dection Level*	UNIT PRICE	AMOUNT
17	25	Settleable Solids	SM2540F	0.5mg/L	\$ 10.00	\$ 250.00
17A	10	Settleable Solids Alt. Method	N/A	N/A	\$ N/A	\$ N/A
18	25	Volatile Solids	SM2540E	1 mg/L	\$ 10.00	\$ 250.00
18A	10	Volatile Solids Alt. Method	N/A	N/A	\$ N/A	\$ N/A
18B	10	Volatile Solide (Solid)	SM2540G	1%	\$ 10.00	\$ 100.00
19	25	Percent Solids	SM2540G	1%	\$ 10.00	\$ 250.00
19A	10	Percent Solids Alt. Method	N/A	N/A	\$ N/A	\$ N/A
19B	10	Percent Solids (Solid)	SM2540G	1%	\$ 10.00	\$ 100.00
20	400	Kjeldahl Nitrogen	SM4500-NO	RG Ø .1 mg/L	\$ 21.00	\$ 8400.00
20A	100	Kjeldahl Nitrogen Alt. Method	EPA351.2	0.1mg/L	\$ 21.00	\$ 2100.00
20B	10	Kjeldahl Nitrogen (Solid)		RGC 5.0mg/	kg21.00	\$ 210.00
20C	10	Kjeldahl Nitorgen Alt. Method (Solid)	N/A	N/A	\$ N/A	\$ N/A
21	50	Ammonia Nitrogen	EPA350.1	0.1 mg/L	\$ 12.00	\$ 600.00
21A	10	Ammonia Nitrogen Alt. Method	N/A	N/A	s N/A	s N/A
21B	10	Ammonia Nitrogen (Solid)	SM4500-NH	3BE 4mg/kg	\$ 12.00	\$ 120.00
21C	10	Ammonia Nitrogen Alt. Method (Solid)	N/A	N/A	s N/A	s N/A
22	50	Organic Nitrogen	EPA351.2/	350).51mg/L	\$ 30.00	\$ 1500.00
22A	10	Organic Nitrogen Alt. Method	N/A	N/A	\$ N/A	\$ N/A
23	50	Nitrate-Nitrogen	EPA300.0	0.05 mg/L	\$ 12.00	\$ 600.00
23A	10	Nitrate-Nitrogen Alt. Method	N/A	N/A	\$ N/A	\$ N/A
24	50	Nitrite-Nitrogen	EPA300.0	0.05 mg/L	\$ 12.00	\$ 600.00
24A	10	Nitrite-Nitrogen Alt. Method	N/A	N/A	\$ N/A	\$ N/A
24B	10	Nitrite-Nitrogen (Solid)	SW9056	0.5mg/kg	\$ 12.00	\$ 120.00
24C	10	Nitrite-Nitrogen Alt. Method (Solid)	N/A	N/A	s N/A	\$ N/A
25	400	Nitrite-Nitrate	EPA300.0	0.05 mg/L	\$ 12.00	\$ 4800.00
25A	100	Nitrite-Nitrate Alt. Method	N/A	N/A	\$ N/A	\$ N/A
25B	10	Nitrite-Nitrate (Solid)	SW9056	0.2mg/kg	\$ 12.00	\$ 120.00
25C	10	Nitrite-Nitrate Alt. Method (Solid)	N/A	N/A	s N/A	\$ N/A
26	400	Total Phosphorus	SM4500-PE	E 0.005 mg/L	\$ 18.00	\$ 7200.00
26A	100	Total Phosphorus Alt. Method	N/A	N/A	s N/A	\$ N/A
26B	10	Total Phosphorus (Solid)	SW6010C	1.0mg/kg	\$ 7.20	\$ 72.00
26C	10	Total Phosphorus Alt. Method (Solid)	N/A	N/A	\$ N/A	\$ N/A
27	50	Orthophosphate	EPA300.0	0.01 mg/L	\$ 12.00	\$ 600.00
27A	10	Orthophosphate Alt. Method	N/A	N/A	s N/A	s N/A
28	50	Total Phosphate	SM4500-PE	E 0.01 mg/L	\$ 18.00	\$ 900.00
28A	10	Total Phosphate Alt. Method	N/A	N/A	\$ N/A	\$ N/A
28B	10	Total Phosphate (Solid)	SW6010C	1.0mg/kg	\$ 7.20	\$ 72.00
28C	10	Total Phosphate Alt. Method (Solid)	N/A	N/A	\$ N/A	\$ N/A
29	25	BOD	SM5210B	1 mg/L	\$ 20.00	\$ 500.00
29A	10	BOD Alt. Method	N/A	N/A	\$ N/A	\$ N/A
30	25	BOD-carbonaceous	SM5210B	1 mg/L	\$ 21.00	\$ 525.00
30A	10	BOD-carbonaceous Alt. Method	N/A	N/A	\$ N/A	\$ N/A
31	25	COD	EPA410.4	0.5 mg/L	\$ 20.00	\$ 500.00
31A	10	COD Alt. Method	N/A	N/A	\$ N/A	\$ N/A
32	25	TOC	SM5310C	1 mg/L	\$ 21.00	\$ 525.00
32A	10	TOC Alt. Method	N/A	N/A	\$ N/A	\$ N/A
33	25	MBAS	SM5540C	0.05 mg/L	\$ 27.00	\$ 675.00
33A.	10	MBAS Alt. Method	N/A	N/A	\$ N/A	\$ N/A
34	25	Phenolics	EPA420.1	0.01 mg/L	\$ 34.00	\$ 850.00
34A	10	Phenolics Alt. Method	N/A	N/A	\$ N/A	\$ N/A
34B	10	Phenolics (Solid)	SW9065	0.05 mg/k	<u> </u>	\$ 340.00
35	25	Total Cyanide	EPA335.4	0.005 mg/L	\$ 26.00	\$ 650.00
35A	10	Total Cyanide Alt. Method	N/A	N/A	\$ N/A	\$ N/A
35B	10	Total Cyanide (Solid)	SW9010/90	12A 0.04mg	\$kg 26.00	\$ 260.00

	ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Dection Level*		UNIT PRICE	AMOUNT
10								
10	36	200	Hexavalent Chromium	SM3500-C	D 0.005 mg/L	\$	26.00	\$ 5200.00
10		10				_		
137		10						
378				·		_		·
178								
38A 100				· · · · · · · · · · · · · · · · · · ·		-		
38A 20								
39A 25						-		
1996 10								
40A 25			· · · · · · · · · · · · · · · · · · ·					
10			<u> </u>					
1418			· · · · · · · · · · · · · · · · · · ·					
418								<u> </u>
42A	-		1					
42A 10 Cyanide, Free Alt. Method N/A SM2310B 1 mg/L \$ 13.00 \$ 325.00						_		
43A 25 Mineral Acidity SM2310B 1 mg/L \$ 13.00 \$ 325.00			· · · · · · · · · · · · · · · · · · ·					
434 25 Total Acidity Alt. Method N/A N/A S N/A S N/A								
44								
44A								
Tot Petroleum Hydrocarbons GRO/DRO SW8 0 1 5 B 0.5 mg/L \$ 65.00 \$ 1625.00								
45	7711	10		N/A	N/A	Φ	N/A	Φ IN/ EL
Tot Petroleum Hydrocarbons GRO/DRO (8015) Alt. Method	45	25		CW901ED	0.5 ma/I	•	65 00	9 1625 00
45A 10 (8015) Alt. Method N/A N/A \$ N/A \$ N/A Tot Petroleum Hydrocarbons GRO/DRO (8015) (Solid) SW8015B 0.5mg/kg \$ 65.00 \$ 650.00 46 25 Fecal Streptococci SM9230C 4 col/100 mL \$ 55.00 \$ 1375.00 46A 10 Fecal Streptococci (Solid) SM9230C 1 col/100 mL \$ 55.00 \$ 1375.00 46B 10 Fecal Streptococci (Solid) SM9230C 1 col/100 mL \$ 55.00 \$ 550.00 47 25 Escherichia Coli (Numeric Result) SM9223B DT 1 col/100 mL \$ 55.00 \$ 550.00 47A 10 E. Coli (Numeric Result) SM9223B DT 1 col/100 mL \$ 55.00 \$ 1375.00 48A 10 Bicarbonate (Standard Methods) SM2320B 1 mg/L \$ 11.00 \$ 275.00 48A 10 Bicarbonate (Standard Methods) SM2320B 1 mg/L \$ 11.00 \$ 275.00 49A 10 Bicarbonate Alt. Method N/A N/A \$ N/A \$ N/A 49 25 Ferrous Iron (Standard Methods) SM3500 FeD 0.05 mg/L \$ 30.00 \$ 750.00 49A 10 Ferrous Iron Alt. Method N/A N/A \$ N/A \$ N/A 51 25 Dissolved Organic Carbon SM5310C 1 mg/L \$ 21.00 \$ 525.00 51A 10 Dissolved Organic Carbon Alt Method N/A N/A \$ N/A \$ N/A 53 4000 Aluminum Alt. method N/A N/A \$ N/A \$ N/A 53 4000 Aluminum Alt. method N/A N/A \$ N/A \$ N/A 53 4000 Aluminum Alt. method N/A N/A \$ N/A \$ N/A 53 4000 Aluminum (Solid) SW6010C 0.3mg/kg \$ 7.20 \$ 72.00 54A 10 Antimony (Solid) SW6010C 1.0mg/lg \$ 7.20 \$ 72.00 54B 10 Antimony (Solid) SW6010C 1.0mg/lg \$ 7.20 \$ 72.00 55A 10 Arsenic Alt. Method EPA200.8 0.001mg/L \$ 7.20 \$ 144.00 55B 10 Arsenic Alt. Method EPA200.8 0.001mg/L \$ 7.20 \$ 144.00 55A 10 Barium (Solid) SW6010C 1.0mg/kg \$ 7.20 \$ 72.00 57A 20 Beryllium EPA200.7 0.005 mg/L \$ 7.20 \$ 144.00 57A 10 Beryllium Alt. Method EPA200.8 0.001mg/L \$ 7.20 \$ 144.00 57B 10 Beryllium Alt. Method EPA200.8 0.002mg/L \$ 7.20 \$ 72.00 57B 10	73		10 /	DWOULD	0.5 mg/L	Φ	05.00	3 1023.00
Tot Petroleum Hydrocarbons GRO/DRO (8015) (Solid) SW8015B 0.5mg/kg \$ 65.00 \$ 650.00	151	10	· -	NT / 7	77 / 78	٦	NT / 7A	NT / 7A
45B 10 (8015) (Solid) SW8015B 0.5mg/kg \$ 65.00 \$ 650.00 46 25 Fecal Streptococci SM9230C 4 col/100 mL \$ 55.00 \$ 1375.00 46A 10 Fecal Streptococci (Solid) N/A N/A N/A \$ N/A 46B 10 Fecal Streptococci (Solid) SM9230C 1 col/100 mL \$ 55.00 \$ 550.00 47 25 Escherichia Coli (Numeric Result) SM9223B-QT1 col/100 mL \$ 55.00 \$ 1375.00 47A 10 E. Coli (Numeric Result) M/A N/A N/A \$ N/A 48 25 Bicarbonate (Standard Methods) SM2320B 1 mg/L \$ 11.00 \$ 275.00 48A 10 Bicarbonate Alt. Method N/A N/A N/A \$ N/A 49A 25 Ferrous Iron (Standard Methods) SM3500-Feb 0.05 mg/L \$ 30.00 \$ 750.00 49A 10 Ferrous Iron (Standard Methods) N/A N/A N/A N/A 51 25 Dissolved Or	4JA	10		IN/A	N/A	Ф	N/A	2 N/H
SM9230C	150	10	· -	G170015D	0 5 /3	6	CE 00	L CEO 00
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58 20 Boron EPA200.7 0.02 mg/L \$ 7.20 \$ 144.00			 	EPA200.8			12.60	\$ 126.00
71100				SW6010C	0.05 mg/kg	\$	7.20	
				EPA200.7		_	7.20	
	58A	10	Boron Alt. Method	N/A	N/A	\$	N/A	\$ N/A

NO. QUANTITY DESCRIPTION Method # Lo	evel* UNIT PRICE AMOUNT
	jejuju ju na na nejejeje na na ibina na naha na hahara na nahara na haharana haharana na haka kukukukukukuk.
	ng/kg \$ 7.20 \$ 72.0
	02 mg/L \$ 7.20 \$1440.0
	002mg/L\$ 12.60 \$ 252.0
59B 10 Cadmium (Solid) SW6010C 0.1m	ng/kg \$ 7.20 \$ 72.0
	2 mg/L \$ 7.20 \$3600.0
60A 20 Calcium Alt. Method N/A N	I/A \$ N/A \$ N/A
60B 10 Calcium (Solid) SW6010C 5.0m	$\frac{1}{3}$ $\frac{1}$
	01 mg/L \$ 7.20 \$ 144.00
	1mg/L \$ 12.60 \$ 126.0
	ng/kg \$ 7.20 \$ 72.00
	01 mg/L \$ 7.20 \$ 144.00
62A 10 Cobalt Alt. Method EPA200.8 0.00	
	ng/kg \$ 7.20 \$ 72.00
	01 mg/L \$ 7.20 \$1440.00
63A 20 Copper Alt. Method EPA200.8 0.00	
· · · · · · · · · · · · · · · · · · ·	ng/kg \$ 7.20 \$ 72.00
	1 mg/L \$ 7.20 \$21600.0
	I/A \$ N/A \$ N/A
	ng/kg \$ 7.20 \$ 72.00
	01 mg/L \$ 7.20 \$1440.00
65A 10 Lead Alt. Method EPA200.8 0.00	
65B 10 Lead (Solid) SW6010C 1.0m	ng/kg \$ 7.20 \$ 72.00
	5 mg/L \$ 7.20 \$3600.00
	/A \$ N/A \$ N/A
	ig/kg \$ 7.20 \$ 72.00
	05 mg/L \$ 7.20 \$21600.0
67A 100 Manganese Alt. Method EPA 200.8 0.00	
67B 10 Manganese (Solid) SW6010C 0.2m	
	01 mg/L \$ 20.00 \$4000.00
	5 ng/L \$ 44.20 \$8840.00
	mg/kg \$ 20.00 \$200.00
	05 mg/L \$ 7.20 \$ 144.00
69A 10 Molybdenum Alt. Method EPA200.8 0.00	1mg/L \$ 12.60 \$ 126.00
69B 10 Molybdenum (Solid) SW6010C 0.7m	
	05 mg/L \$ 7.20 \$1440.00
70A 20 Nickel Alt. Method EPA200.8 0.00	
70B 10 Nickel (Solid) SW6010C 0.2m	
71 500 Potassium EPA200.7 0.00	5 mg/L \$ 7.20 \$3600.00
71A 20 Potassium Alt. Method N/A N	/A \$ N/A \$ N/A
71B 10 Potassium (Solid) SW6010C 2.0m	g/kg \$ 7.20 \$ 72.00
	01 mg/L \$ 7.20 \$3600.00
72A 20 Selenium Alt. Method SM3114B/SW7742M	
72B 10 Selenium (Solid) SW6010C 1.0m	
73 200 Silver EPA200.7 0.000	02 mg/L \$ 7.20 \$1440.00
73A 20 Silver Alt. Method EPA200.8 0.00	
73B 10 Silver SW6010C 0.1m	
74 500 Sodium EPA200.7 0.05	5 mg/L \$ 7.20 \$3600.00
	/A \$ N/A \$ N/A
74B 10 Sodium (Solid) SW6010C 3.0m	g/kg \$ 7.20 \$ 72.00
75 20 Thallium EPA200.7 0.00	1 mg/L \$ 7.20 \$ 144.00
75A 10 Thallium Alt. Method EPA200.8 0.00	2mg/L \$ 12.60 \$126.00
75B 10 Thallium (Solid) SW6010C 1.0me	g/kg \$ 7.20 \$ 72.00
	2 mg/L \$ 7.20 \$144.00
76A 10 Tin Alt. Method EPA200.8 0.00	

ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Dection Level*	UNIT PRICE .	AMOUNT
76B	10	Tin (Solid)	SW6010C	1.0mg/kg	\$ 7.20	\$ 72.00
77	20	Vanadium	EPA200.7	0.005 mg/L	\$ 7.20	\$ 144.00
77A	10	Vanadium Alt. Method	EPA200.8	0.001mg/L	\$ 12.60	\$ 126.00
77B	10	Vanadium (Solid)	SW6010C	0.2mg/kg	\$ 7.20	\$ 72.00
78	200	Zinc	EPA200.7	0.002 mg/L	\$ 7.20	\$1440.00
78A	20	Zinc Alt. Method	EPA200.8	0.003 mg/L		\$ 252.00
78B	10	Zinc (Solid)	SW6010C	0.5mg/kg	\$ 7.20	\$ 72.00
79	200	Metals Prep Cost	EPA200.2		\$ 10.00	\$2000.00
79A	10	Metals Prep Cost (Solid)	SW3050B	N/A	\$ 15.00	\$ 150.00
80	20	Gross Alpha			\$ 78.00	\$1560.00
81	20	Gross Beta				\$1560.00
82	20	Ra-226	_			\$2000.00
83	20	Ra-228				\$2000.00
84	20	Total Uranium				\$1500.00
85	20	Sr-89			Y	\$2500.00
86	20	Sr-90				\$2500.00
87	20	Tritium (H3)				\$1500.00
88	20	Gamma (Cs-137)				\$1900.00
89	20	Radon			\$ 75.00	\$1500.00

		Toxicity Testing - Freshwater Organisms	
		Acute:	
90	25	Ceriodaphnia	\$ 309.75 \$7743.75
91	10	Daphnia Pulex / D. magna	\$ 309.75 \$3097.50
92	25	Pimephales promelas	\$ 414.75 \$10368.75
		Chronic:	
93	25	Ceroidaphnia	\$1044.75 \$26118.79
94	25	Pimephales promelas (Survival & Growth)	\$1464.75 \$36618.75
95	200	Analysis of entire "Phase I Parameters" for landfills	\$ 580.00 \$116000.0

See Appendix B for list.

96	10	Professional staff representation of data in	0		· ·
	10	legal/administrative setting per hour	Ψ	110.00	° 1100.00

	24	Charleston Office, 601 57th St., SE, Charleston, WV 25304	\$N/C M-F \$ N/C M-1
98	24	Teays Office, P.O. Box 662, Teays, WV 25596	\$N/C M-F \$ N/C M-1
99	24	Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 26554	\$N/C Thurs N/C Thu
100	24	Romney Office, HC 63, Box 2545, Romney, WV 26757	\$ 200.00 \$ 4800.00
101	24	French Creek Office, P.O. Box 38, French Creek, WV 26218	\$ 100.00 \$ 2400.00
102	24	Wheeling Office, 131A Peninsula St., Wheeling, WV 26003	\$ 150.00 \$ 3600.00
103	24	Parkersburg Office, 2311 Ohio Ave., Parkersburg, WV 26010	\$ N/C Wed \$ N/C Wed

ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Dection Level*	UNIT PRICE	AMOUNT
105	24	Logan Office, 1101 George Kostas Dr. L	ogan, 25601		\$ 100.00	\$ 2400.00
106	24	Welch Office, 311 Court St. Welch 24801			\$ 100.00	\$ 2400.00
107	5000	Other locations as Cost Per Mile to picku	ıp site		\$ 1.00	\$ 5000.00
108	10	24 Hour Turn-Around Rush Orders**			\$ 50%	\$
109	10	48 Hour Turn-Around Rush Orders**			\$ 25%	\$
110	10	72 Hour Turn Around Rush Orders**			\$ 10%	\$
	5	Day Turn Around Rush O	rder		88	
					*	
		TOTAL			***************************************	8 _{\$} 780,485.

All unit pricing quoted should be based on standard (not to exceed two weeks) turn-around time.

^{*} For Alternate test methods (and methods for which no MDL is listed), list your current method detection limit for each method

^{**}During emergency situations samples may be requested on a quicker turn-around basis.

REI Consultants, Inc. – Key Staff Qualifications

Name	Current Position	Qualifications
Dr. Clarence L. Haile	Laboratory Director	PhD in Environmental Chemistry with 34 years research and laboratory management experience
Ray Erickson	Assistant Lab Director	BS in Biochemistry with 28 years laboratory management and research experience
Brenda Barnett	Quality Assurance Officer	BS in Biology with 13 years laboratory/quality assurance experience
Jimmy Suttle	Project Manager	19 years sampling/sample custody/project management experience
Ivan Leef	Inorganics Lab Manager	BS in Chemical Engineering with 23 years laboratory experience
Dennis Layne	Metals Lab Supervisor	Associate in Science with 15 years metals laboratory experience
Jennifer Dunford	Metals Analyst	BS in Natural Science/Ecology with 8 years laboratory experience
Destiny Austin	Wet Chemistry Analyst	BS in Biology with 7 years laboratory experience
Jay Jones	Wet Chemistry Supervisor	10 years laboratory experience
Randy Farley	Field Measurements Supervisor	19 years of experience sampling wastewater, groundwater, and stormwater
Ed Kirk	Biological Division Director	MS in Biology and 17 years of bioassay experience
Mike Lester	Bioassay Laboratory Manager	19 years of bioassay laboratory experience

Attachment I

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

Annual Certified Parameter List

for

REI CONSULTANTS, INCORPORATED

BEAVER, WEST VIRGINIA

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

ANALYTE	<u>METHOD</u>	TECHNOLOGY
Acidity	SM18th2310 B	Titrimetric
Alkalinity	SM18th2320 B	Titrimetric
Ammonia	EPA350.1	Discrete
Bromide	EPA300.0	IC
Chloride	EPA300.0	IC
Chlorine, Residual	SM18th4500-Cl G	Spectrophotometric
Color	SM18th2120 B	Visual Comparison
Color	SM18th2120 E	Colorimetric
Conductance, Specific	SM18th2510 B	Probe
Cyanide, Total	EPA335.4	Spectrophotometric
Cyanide, Amenable to Chlorination	SM18th4500-CN G	Spectrophotometric
Cyanide, WAD	SM18th4500-C I	Spectrophotometric
Demand, Biochemical(BOD)	SM18th5210B	Probe
Demand, Carbonaceous(CBOD)	SM18th5210B	Probe
Demand, Chemical Oxygen (COD)	EPA410.4	Spectrophotometric
Fluoride	EPA300.0	IC
Hardness, Calcium	SM18th2340 B	Calculation
Hardness, Total	SM18th2340 B	Calculation
Kjeldahl, Total Nitrogen	SM18th4500-NH3 E	Titration
Kjeldahl, Total Nitrogen	EPA351.2	Discrete
Nitrate	EPA300.0	IC
Nitrate-Nitrite	EPA300.0	IC
Nitrite	EPA300.0	IC
Oil & Grease	EPA1664A	Gravimetric
Organic Carbon, Total	SM18th5310 C	Oxidation
Phenolics, Total	EPA420.1 Rev 1978	Manual Spectrophotometric

ANALYTE	<u>METHOD</u>	TECHNOLOGY
Phosphate, ortho	EPA300.0	IC
Phosphorus, Total	SW18th4500-P E	Discrete
•		
Silica, Dissolved	EPA200.7	ICP
Solids, Dissolved	SM18th2540 C	Gravimetric
Solids, Settleable	SM18th2540 F	Gravimetric
Solids, Suspended	SM18th2540 D	Gravimetric
Solids, Total	SM18th2540 B	Gravimetric
Solids, Volatile	EPA160.4	Gravimetric
Sulfate	EPA300.0	IC
Sulfide	SM18th4500-S2 E	Titrimetric
Sulfite	SM18th4500-SO3 B	Titrimetric
Surfactants (MBAS)	SM18th5540 C	Spectrophotometric
Temperature	SM18th2550 B	
Turbidity	SM18th2130 B	Turbidimetric
Oxygen, Dissolved	SM18th4500-O G	Probe
Oxygen, Dissolved(Field Test)	SM18th4500-O G	Probe
pH	SM18th4500-H B	Probe
pH(Field Test)	SM18th4500-H B	Probe
Ammonia	EPA350.1	Distillation
Cyanide	EPA335.4	Distillation
Phenolics	EPA420.1	Distillation
Phosphorus, Total	SM18th4500-P B.5	Digestion
Total Kjeldahl Nitrogen	SM18th4500Norg B	Digestion
Total Kjeldahl Nitrogen	SM18th4500-NH3 B	Distillation

NONPOTABLE WATER TRACE METALS

METAL	<u>METHOD</u>	TECHNOLOGY
Aluminum	EPA200.7 Rev 4.4-1994	ICP
Antimony	EPA200.7 Rev 4.4-1994	ICP
Arsenic	EPA200.7 Rev 4.4-1994	ICP
Barium	EPA200.7 Rev 4.4-1994	ICP
Beryllium	EPA200.7 Rev 4.4-1994	ICP
Boron	EPA200.7 Rev 4.4-1994	ICP
Cadmium	EPA200.7 Rev 4.4-1994	ICP
Calcium	EPA200.7 Rev 4.4-1994	ICP
Chromium	EPA200.7 Rev 4.4-1994	ICP
Cobalt	EPA200.7 Rev 4.4-1994	ICP
Copper	EPA200.7 Rev 4.4-1994	ICP
Gold	EPA200.7 Rev 4.4-1994	ICP
Iron	EPA200.7 Rev 4.4-1994	ICP
Lead	EPA200.7 Rev 4.4-1994	ICP
Magnesium	EPA200.7 Rev 4.4-1994	ICP
Manganese	EPA200.7 Rev 4.4-1994	ICP
Molybdenum	EPA200.7 Rev 4.4-1994	ICP

METAL	METHOD	TECHNOLOGY
Nickel	EPA200.7 Rev 4.4-1994	ICP
Potassium	EPA200.7 Rev 4.4-1994	ICP
Selenium	EPA200.7 Rev 4.4-1994	ICP
Silicon	EPA200.7 Rev 4.4-1994	ICP
Silver	EPA200.7 Rev 4.4-1994	ICP
Sodium	EPA200.7 Rev 4.4-1994	ICP
Strontium	EPA200.7 Rev 4.4-1994	ICP
Thallium	EPA200.7 Rev 4.4-1994	ICP
Tin	EPA200.7 Rev 4.4-1994	ICP
Titanium	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.7 Rev 4.4-1994	ICP
Zinc	EPA200.7 Rev 4.4-1994	ICP
Antimony	EPA200.8 Rev 5.4-1994	ICP-MS
Arsenic	EPA200.8 Rev 5.4-1994	ICP-MS
Barium	EPA200.8 Rev 5.4-1994	ICP-MS
Beryllium	EPA200.8 Rev 5.4-1994	ICP-MS
Cadmium	EPA200.8 Rev 5.4-1994	ICP-MS
Chromium	EPA200.8 Rev 5.4-1994	ICP-MS
Cobalt	EPA200.8 Rev 5.4-1994	ICP-MS
Copper	EPA200.8 Rev 5.4-1994	ICP-MS
Gold	EPA200.8 Rev 5.4-1994	ICP-MS
Lead	EPA200.8 Rev 5.4-1994	ICP-MS
Manganese	EPA200.8 Rev 5.4-1994	ICP-MS
Molybdenum	EPA200.8 Rev 5.4-1994	ICP-MS
Nickel	EPA200.8 Rev 5.4-1994	ICP-MS
Palladium	EPA200.8 Rev 5.4-1994	ICP-MS
Platinum	EPA200.8 Rev 5.4-1994	ICP-MS
Selenium	EPA200.8 Rev 5.4-1994	ICP-MS
Silver	EPA200.8 Rev 5.4-1994	ICP-MS
Strontium	EPA200.8 Rev 5.4-1994	ICP-MS
Thallium	EPA200.8 Rev 5.4-1994	ICP-MS
Tin	EPA200.8 Rev 5.4-1994	ICP-MS
Titanium	EPA200.8 Rev 5.4-1994	ICP-MS
Vanadium	EPA200.8 Rev 5.4-1994	ICP-MS
Zinc	EPA200.8 Rev 5.4-1994	ICP-MS
Aluminum	SW6020A	ICP-MS
Arsenic	EPA200.9 Rev 2.2-1994	STGFAA
Cadmium	EPA200.9 Rev 2.2-1994	STGFAA
Chromium	EPA200.9 Rev 2.2-1994	STGFAA
Lead	EPA200.9 Rev 2.2-1994	STGFAA
Selenium	EPA200.9 Rev 2.2-1994	STGFAA
Mercury	EPA245.1	CVAA
Mercury	SW7470A	CVAA
Mercury	SW7471A	CVAA
Selenium	SM18th3114 B	GH/AF
Chromium, Hexavalent	SM18th3500-Cr D	Colorimetric
Metals digestion	SW3020A	Hot Block

METAL	METHOD	TECHNOLOGY
Total Recoverable	EPA200.2 Rev -1994	Digestion
Dissolved Metals	EPA200.7 Rev 4.4-1994	
Mercury	SW7470A	CVAA
Mercury	SW7471A	Digestion

NONPOTABLE WATER MICROBIOLOGY

THOD	TECHNOLOGY
18th9222 D	Membrane Filter
18th9223 B	Most Probable Number
18th9222 B	Membrane Filter
18th9223 B	Most Probable Number
18th9230 C	Membrane Filter
9215 B	Pour Plate
9215 E	Membrane Filter
	18th9222 D 18th9223 B 18th9222 B 18th9223 B 18th9230 C 9215 B

NONPOTABLE WATER VOLATILE ORGANIC CHEMICALS

GROUP	<u>METHOD</u>	TECHNOLOGY
Purgeable Halocarbons	EPA601	GC/ELCD
Purgeable Aromatics	EPA602	GC/PID
Acrolein & Acrylonitrile	EPA603	GC/FID
Purgeables	EPA624	GC/MS
Total Petroleum Hydrocarbons (GRO)	SW8015C	GC/FID
Nonhalogenated Volatiles	SW8015C	GC/FID
Halogenated & Aromatic Volatiles	SW8021B	GC/ELCD/PID
Volatile Organic Compounds	SW8260B	GC/MS
Volatile Organic Compounds	SW5030B	Purge and Trap
Volatile Organic Compounds	SW5035	Purge and Trap, Closed

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

GROUP	<u>METHOD</u>	TECHNOLOGY
EDB/DBCP	EPA504	GC/ECD
Phenols	EPA604	GC/FID
Pesticides and PCBs	EPA608	GC/ECD
Base/Neutrals and Acids	EPA625	GC/MS
EDB & DBCP	SW8011	GC/ECD
Total Petroleum Hydrocarbons (DRO)	SW8015C	GC/FID
Phenols	SW8041	GC/FID



GROUP	<u>METHOD</u>	TECHNOLOGY
O black. Darkinida.	CW/0001 D	COECD
Organochlorine Pesticides	SW8081B	GC/ECD
Polychlorinated Biphenyls	SW8082A	GC/ECD
Polynuclear Aromatic Hydrocarbons	SW8100	GC/FID
Chlorinated Herbicides	SW8151A	GC/ECD
Semivolatile Organic Compounds	SW8270D	GC/MS
Carbonyl Compounds	SW8315A	HPLC
Nitroaromatics and Nitroamines	SW8330	HPLC
Nitroglycerin	SW8332	HPLC
Liquid-Liquid Extraction	SW3510	Separatory Funnel
Waste Dilution	SW3580	
Chlorinated Herbicides	SW8151A	Extraction
Florisil Cleanup	SW3620	Cleanup
Sulfur Cleanup	SW3660	Cleanup
Acid Cleanup	SW3665	Cleanup
Carbonyl Compounds	SW8315A	Extraction
Nitroaromatics and Nitroamines	SW8330	Extraction

WHOLE EFFLUENT TOXICITY

GROUP	<u>METHOD</u>	TECHNOLOGY
Fathead minnow Ceriodaphnia dubia Survival & Reproduction of Ceriodaphnia Survival & Growth of Fathead Minnow Larval	EPA821-R-02-012 2000.0 EPA821-R-02-012 2002.0 EPA821-R-02-013 1000.0 EPA821-R-02-013 1002.0	Acute Acute Chronic Chronic

HAZARDOUS WASTE CHARACTERISTICS

PROCEDURE	<u>METHOD</u>	TECHNOLOGY
Corrosivity	SW9045 D	Probe
Corrosivity	SW9040 C	Probe
Ignitability	SW1010	Closed Cup
Reactive Cyanide	Run Total Cyanide by SW9010/9	014
Reactive Sulfide	Run Total Sulfide by SW9030B/9034	
Paint Filter Test	SW9095B	Gravimetric
TCLP (Metals and Organics)	SW1311A	Rotating Extractor



SOLID AND CHEMICAL INORGANIC NONMETALS

ANALYTE	<u>METHOD</u>	TECHNOLOGY
рН	SW9045C	Probe
*Acidity	SM18th2310 B	Titrimetric
*Alkalinity	SM18th2320 B	Titrimetric
*Ammonia	EPA350.1	Discrete
*Ammonia	SM18th4500-NH3 E	Titrimetric
*Bromide	EPA300.0	IC
*Chloride	EPA300.0	IC
*Cyanide, Total	EPA335.4	Spectrophotometric
*Demand, Chemical (COD)	EPA410.4	Spectrophotometric
*Fluoride	EPA300.0	IC
*Kjeldahl, Total Nitrogen	EPA351.2	Discrete
*Kjeldahl, Total Nitrogen	SM18th4500-NH3 E	Titrimetric
*Nitrate	EPA300.0	IC
*Nitrate-Nitrite	EPA300.0	IC
*Nitrite	EPA300.0	IC
*Oil & Grease	EPA1664A	Gravimetric
Organic Carbon, Total	SM18th5310 C	Oxidation
*Phenolics, Total	EPA420.1 Rev 1978	Manual Spectrophotometric
*Phosphate, ortho	EPA300.0	IC
Phosphate, Total	SW6010C	ICP
Solids, Total	SM18th2540 B	Gravimetric
Solids, Volatile	SM18tb2540 E	Gravimetric
Solids, Volatile	SM18th2540 G	Gravimetric
*Sulfate	EPA300.0	IC
*Ammonia	SM18th4500-NH3 B	Distillation
*Kjeldahl, Total Nitrogen	SM18th4500-Norg B	Digestion
*Kjeldahl, Total Nitrogen	SM18th4500-NH3 B	Distillation
*Modified for soil analysis		

SOLID AND CHEMICAL TRACE METALS

METAL	<u>METHOD</u>	TECHNOLOGY
Aluminum	SW6010C	ICP
Antimony	SW6010C	ICP
Arsenic	SW6010C	ICP
Barium	SW6010C	ICP
Beryllium	SW6010C	ICP
Boron	SW6010C	ICP
Cadmium	SW6010C	ICP
Calcium	SW6010C	ICP
Chromium	SW6010C	ICP
Cobalt	SW6010C	ICP
Copper	SW6010C	ICP
Gold	SW6010C	ICP

<u>METAL</u>	<u>METHOD</u>	TECHNOLOGY
Iron	SW6010C	ICP
Lead	SW6010C	ICP
Magnesium	SW6010C	ICP
Manganese	SW6010C	ICP
Molybdenum	SW6010C	ICP
Nickel	SW6010C	ICP
Potassium	SW6010C	ICP
Selenium	SW6010C	ICP
Silicon	SW6010C	ICP
Silver	SW6010C	ICP
Sodium	SW6010C	ICP *
Strontium	SW6010C	ICP
Thallium	SW6010C	ICP
Tin	SW6010C	ICP
Titanium	SW6010C	ICP
Vanadium	SW6010C	ICP
Zinc	SW6010C	ICP
Aluminum	SW6020A	ICP-MS
Antimony	SW6020A	ICP-MS
Anunony Arsenic	SW6020A SW6020A	ICP-MS
Barium	SW6020A SW6020A	ICP-MS
	SW6020A SW6020A	ICP-MS
Beryllium		
Cadmium	SW6020A	ICP-MS
Chromium	SW6020A	ICP-MS
Cobalt	SW6020A	ICP-MS
Copper	SW6020A	ICP-MS
Gold	SW6020A	ICP-MS
Lead	SW6020A	ICP-MS
Manganese	SW6020A	ICP-MS
Molybdenum	SW6020A	ICP-MS
Nickel	SW6020A	ICP-MS
Palladium	SW6020A	ICP-MS
Platinum	SW6020A	ICP-MS
Selenium	SW6020A	ICP-MS
Silver	SW6020A	ICP-MS
Strontium	SW6020A	ICP-MS
Thallium	SW6020A	ICP-MS
Tin	SW6020A	ICP-MS
Titanium	SW6020A	ICP-MS
Vanadium	SW6020A	ICP-MS
Zinc	SW6020A	ICP-MS
Arsenic	SW7010	GFAA
Cadmium	SW7010	GFAA
Chromium	SW7010	GFAA
Lead	SW7010	GFAA
Selenium	SW7010	GFAA
Mercury	EPA245.1	CVAA
•		

METAL	<u>METHOD</u>	TECHNOLOGY
Mercury	SW7471A	CVAA
Mercury	SW7471B	CVAA
Chromium, Hexavalent	SM18th3500-Cr D	Colorimetric
Chromium, Hexavalent	SW3060	Digestion
Metals	SW3050B	Digestion

SOLID AND CHEMICAL MICROBIOLOGY

GROUP	METHOD	TECHNOLOGY
Fecal Coliform	SM18th9222 D	Membrane Filter
Fecal Coliform	SM18th9223 B	Most Probable Number
Total Coliform	SM18th9222 B	Membrane Filter
Total Coliform	SM18th9223 B	Most Probable Number
Fecal Streptococci	SM18th9230 C	Membrane Filter

SOLID AND CHEMICAL VOLATILE ORGANIC CHEMICALS

GROUP	<u>METHOD</u>	TECHNOLOGY
Purgeable Halocarbons	EPA601	GC/ELCD
Purgeable Aromatics	EPA602	GC/PID
Acrolein & Acrylonitrile	EPA603	GC/FID
Purgeables	EPA624	GC/MS
Total Petroleum Hydrocarbons (GRO)	SW8015C	GC/FID
Nonhalogenated Volatiles	SW8015C	GC/FID
Halogenated & Aromatic Volatiles	SW8021B	GC/ELCD/PID
Volatile Organic Compounds	SW8260B	GC/MS
Volatile Organic Compounds	SW5035	Purge and Trap, Closed

$\frac{\text{SOLID AND CHEMICAL EXTRACTABLE AND SEMI-VOLATILE ORGANIC}}{\text{CHEMICALS}}$

GROUP	<u>METHOD</u>	TECHNOLOGY
EDB/DBCP	EPA504	GC/ECD
Phenols	EPA604	GC/FID
Pesticides and PCBs	EPA608	GC/ECD
Base/Neutrals and Acids	EPA625	GC/MS
EDB & DBCP	SW8011	GC/ECD
Total Petroleum Hydrocarbons (DRO)	SW8015C	GC/FID
Phenols	SW8041	GC/FID
Organochlorine Pesticides	SW8081B	GC/ECD
Polychlorinated Biphenyls	SW8082A	GC/ECD

GROUP	<u>METHOD</u>	TECHNOLOGY

Polynuclear Aromatic Hydrocarbons	SW8100	GC/FID
Chlorinated Herbicides	SW8151A	GC/ECD
Semivolatile Organic Compounds	SW8270D	GC/MS
Carbonyl Compounds	SW8315A	HPLC
Nitroaromatics and Nitroamines	SW8330	HPLC
Nitroglycerin	SW8332	HPLC
Liquid-Liquid Extraction	SW3510	Separatory Funnel
Ultrasonic Extraction	SW3550	UE
Waste Dilution	SW3580	
Chlorinated Herbicides	SW8151A	Extraction
Florisil Cleanup	SW3620	Cleanup
Sulfur Cleanup	SW3660	Cleanup
Acid Cleanup	SW3665	Cleanup
Carbonyl Compounds	SW8315A	Extraction
Nitroaromatics and Nitroamines	SW8330	Extraction

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.

Issued on September 28, 2010

This Certification Expires September 30, 2011.

Certificate No 060

Daniel T. Arnold Program Manager Rev. 09/08

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. <u>X</u>	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
	Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2 .	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
⁴ ×	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.	
By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.	
Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.	
Bidder: RE1 Consultants, Inc. Signed: Harl Date: 9 Nov 2010 Title: Executive Vice President	
Date:_	9 Nov 2010 Title: Executive Vice President

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. <u>DEP 15037</u>

Purchasing Affidavit (Revised 12/15/09)

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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 exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (**West Virginia Code** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE
Vendor's Name: REI Consultants, Inc.
Authorized Signature: Date: 9 Nov 2010
State of WEST VIRGINIA
County of RALEIGH, to-wit:
Taken, subscribed, and sworn to before me this $\frac{9}{2}$ day of $\frac{NoYEmBER}{}$, 2010.
My Commission expires August 15, 20/3.
AFFIX SEAL HERE NOTARY PUBLIC Ain D. White
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA E. BRIN G. MARTIN

254 REBECCA LANE BEAVER, WV 25813 My commission expires August 15, 2013