



Guy Nisbet
Department of Administration
Purchasing Division
2019 Washington St, East
Charleston, WV 25305

RE: RFQ No. DEP15729
Pace Analytical Services, Inc. Proposal

Enclosed is Pace Analytical Services, Inc. proposal for the above referenced RFQ. Prices have been entered for those Line Items in which Pace Analytical Services are bidding on. For the Line Items in which we do not have WV certification/capability, I did not submit pricing and therefore those items alone are not included in our bid proposal.

Further, as instructed our signed bid contains the "Purchasing Affidavit", "Vendor's Bid Sheet", proof of certification, and finally key staff chemists resumes.

Respectfully submitted,

A handwritten signature in black ink that reads "Paul P. Painter". The signature is written in a cursive, flowing style.

Paul P. Painter
Sr. Account Executive
Pace Analytical Services, Inc.





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

Request for Quotation

RFQ NUMBER
 DEP15729

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ADDRESS CORRESPONDENCE TO ATTENTION OF
 GUY NISBET
 304-558-8802

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ENVIRONMENTAL PROTECTION,
 DEPARTMENT OF
 DIV OF WATER AND WASTE MGT
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED 01/05/2012	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 01/31/2012		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		961-48		
<p>GENERAL ANALYSIS OF WATER AND SOIL FIELD TESTING</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING QUOTATIONS FROM QUALIFIED VENDORS TO PROVIDE THE AGENCY WITH GENERAL ANALYSIS OF WATER AND SOIL PER THE FOLLOWING SPECIFICATIONS, SCOPE OF WORK, TERMS & CONDITIONS, BID REQUIREMENTS, AND THE ATTACHED BID SCHEDULE.</p> <p>INQUIRES:</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH THE CLOSE OF BUSINESS ON TUESDAY, 01/17/2012. QUESTIONS MAY BE SENT VIA: USPS, FAX, COURIER OR EMAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, EMAIL QUESTIONS ARE PREFERRED. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL WRITTEN ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER Q&A DEADLINE HAS LAPSED.</p> <p>ADDRESS INQUIRES TO:</p> <p>GUY NISBET DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV. 25305 FAX: 304.558.4115 EMAIL: GUY.L.NISBET@WV.GOV</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Guy Nisbet* TELEPHONE: 304-207-3797 DATE: 1-30-2012

TITLE: Sr. Account Executive FEIN: 41-1821617

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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BID OPENING DATE: 01/31/2012		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD-----, AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Paul Raiter* TELEPHONE: 304-207-3997 DATE: 1-30-2012

TITLE: SR ACCOUNT EXECUTIVE FEIN: 41-1821617

ADDRESS CHANGES TO BE NOTED ABOVE

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	<p>IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 05/26/2009</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.: DEP15729</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p>					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: 304-207-3797 DATE: 1-30-2012

TITLE: Sr Account Executive FEIN: 41-1821617 ADDRESS CHANGES TO BE NOTED ABOVE

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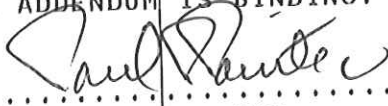
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ADDENDUM NO.'S: NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY 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. <div style="text-align: right;">  SIGNATURE PACE ANALYTICAL SERVICES, INC. COMPANY 1-30-2012 DATE </div> NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE 304-207-3797	DATE 1-30-2012
TITLE Sr ACCOUNT EXECUTIVE	FEIN 41-1821617	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: GN-23</p> <p>RFQ. NO.: DEP15729</p> <p>BID OPENING DATE: 01/31/2012</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: (724) 850-5601</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Shelley Rainey* TELEPHONE: 304-207-3797 DATE: 1-30-2012

TITLE: SR ACCOUNT EXECUTIVE FEIN: 41-1821617 ADDRESS CHANGES TO BE NOTED ABOVE

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<p>PAUL P. PAINTER</p> <p>-----</p> <p>ANY INDIVIDUAL SIGNING THIS BID IS CERTIFYING THAT: (1) HE OR SHE IS AUTHORIZED BY THE BIDDER TO EXECUTE THE BID OR ANY DOCUMENTS RELATED THERE TO ON BEHALF OF THE BIDDER, (2) THAT HE OR SHE IS AUTHORIZED TO BIND THE BIDDER IN A CONTRACTUAL RELATIONSHIP, AND (3) THAT THE BIDDER HAS PROPERLY REGISTERED WITH ANY STATE AGENCIES THAT MAY REQUIRE REGISTRATION.</p> <p>***** THIS IS THE END OF RFQ DEP15729 ***** TOTAL: _____</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Paul Painter* TELEPHONE: 304-207-3797 DATE: 1-30-2012

TITLE: ACCOUNT EXECUTIVE FEIN: 41-1821617 ADDRESS CHANGES TO BE NOTED ABOVE

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RFQ No. DEP15729

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 exceeds 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: PACE ANALYTICAL SERVICES, INC.

Authorized Signature: *Paul Wainter* Date: 1-27-2012

State of WEST VIRGINIA

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 27th day of January, 2012.

My Commission expires January 31 2018, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC *Beverly Agee*



ANALYSIS OF WATER AND SOIL

DEP15729

Vendor's Bid Sheet

Vendors Name:

PACE ANALYTICAL SERVICES

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

ITEM NO	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
1	4000	pH	9040B	N/A	\$ 5.00	\$ 20,000.00
1A	10	pH (Solid)	9045C		\$ 5.00	\$ 50.00
2	4000	Hot Acidity		5 mg/l	\$	\$
2A	1000	Hot Acidity Alt. Method		*	\$	\$
3	4000	Alkalinity	SM2320B	5 mg/L	\$ 8.00	\$ 32,000.00
3A	1000	Alkalinity Alt. Method			\$	\$
4	500	Hardness	SM2340B	1 mg/L	\$ 8.00	\$ 4,000.00
4A	100	Hardness Alt. Method	6010B	1 mg/L	\$ 8.00	\$ 800.00
4B	10	Hardness (Solid)			\$	\$
5	1000	Specific Conductance	120.1	3 uS/cm ²	\$ 8.00	\$ 8,000.00
5A	500	Specific Conductance Alt. Method			\$	\$
6	4000	Sulfate	ASTM D516-90	5 mg/L	\$ 12.00	\$ 48,000.00
6A	1000	Sulfate Alt. Method			\$	\$
6B	10	Sulfate (Solid)			\$	\$
7	20	Sulfide	SM4500S2-F	1 mg/L	\$ 10.00	\$ 200.00
7A	10	Sulfide Alt. Method			\$	\$
8	20	Turbidity	180.1	1 NTU (higher OK if highly turbid)	\$ 8.00	\$ 160.00
8A	10	Turbidity Alt. Method			\$	\$
9	300	Bromide		0.1 mg/L	\$	\$
9A	10	Bromide Alt. Method		1 mg/L	\$	\$
9B	10	Bromide (Solid)			\$	\$
10	3000	Chloride	SM4500C-E	5 mg/L	\$ 8.00	\$ 24,000.00
10A	100	Chloride Alt. Method			\$	\$
10B	10	Chloride (Solid)			\$	\$
11	25	Fluoride	SM4500F-L	0.2 mg/L	\$ 16.00	\$ 400.00
11A	10	Fluoride Alt. Method	300.0	0.0125 mg/L	\$ 16.00	\$ 160.00
11B	10	Fluoride (Solid)			\$	\$
12	4000	Fecal Coliform (MF)		4 cfu/100 mL	\$	\$
12A	1000	Fecal Coliform (MF) Alt. Method			\$	\$
13	100	Fecal Coliform (MPN)		4 cfu/100 mL	\$	\$
13A	50	Fecal Coliform (MPN) Alt. Method			\$	\$
14	20	Total Coliform		1 mg/L	\$	\$
15	25	Total Solids		10 mg/L	\$ 8.00	\$ 80.00
15A	10	Total Solids Alt. Method	SM2540B		\$	\$
15B	10	Total Solid (Solid)		1 mg/L	\$	\$
16	3000	Dissolved Solids (TDS)		10 mg/L	\$ 8.00	\$ 8,000.00
16A	1000	Dissolved Solids (TDS) Alt. Method	SM2540C	3 mg/L	\$	\$
17	4000	Suspended Solids (TSS)			\$	\$

ITEM NO	FST QUANTITY	DESCRIPTION	Method #	Method Detection Level ²	UNIT PRICE	AMOUNT
17A	1000	Suspended Solids (TSS) Alt. Method	SM2540D	4 mg/L	\$ 8.00	\$ 8,000.00
18	25	Settleable Solids	SM2540F	0.1 mg/L	\$ 8.00	\$ 200.00
18A	10	Settleable Solids Alt. Method			\$	\$
19	25	Volatile Solids		1 mg/L	\$	\$
19A	10	Volatile Solids Alt. Method			\$	\$
19B	10	Volatile solid (Solid)			\$	\$
20	25	Percent Solids	SM2540B	1%	\$ 8.00	\$ 200.00
20A	10	Percent Solids Alt. Method			\$	\$
20B	10	Percent Solids (Solid)			\$	\$
21	400	Kjeldahl Nitrogen		0.1 mg/L	\$	\$
21A	100	Kjeldahl Nitrogen Alt. Method	351.2	0.263 mg/L	\$ 19.00	\$ 1,900.00
21B	10	Kjeldahl Nitrogen (Solid)			\$	\$
21C	10	Kjeldahl Nitrogen Alt. Method (Solid)			\$	\$
22	50	Ammonia Nitrogen	350.1	0.1 mg/L	\$ 15.00	\$ 750.00
22A	10	Ammonia Nitrogen Alt. Method			\$	\$
22B	10	Ammonia Nitrogen (Solid)			\$	\$
22C	10	Ammonia Nitrogen Alt. Method (Solid)			\$	\$
23	50	Organic Nitrogen		0.5 mg/L	\$	\$
23A	10	Organic Nitrogen Alt. Method			\$	\$
24	50	Nitrate-Nitrogen	SM4500N03-F	0.05 mg/L	\$ 12.00	\$ 600.00
24A	10	Nitrate-Nitrogen Alt. Method			\$	\$
25	50	Nitrite-Nitrogen	SM4500N02-B	0.05 mg/L	\$ 12.00	\$ 600.00
25A	10	Nitrite-Nitrogen Alt. Method			\$	\$
25B	10	Nitrite-Nitrogen (Solid)			\$	\$
25C	10	Nitrite-Nitrogen Alt. Method (Solid)			\$	\$
26	400	Nitrite-Nitrate	SM4500N03-F	0.05 mg/L	\$ 18.00	\$ 7,200.00
26A	100	Nitrite-Nitrate Alt. Method			\$	\$
26B	10	Nitrite-Nitrate (Solid)			\$	\$
26C	10	Nitrite-Nitrate Alt. Method (Solid)			\$	\$
27	400	Total Phosphorus	SM4500P-E	0.01 mg/L	\$ 18.00	\$ 7,200.00
27A	100	Total Phosphorus Alt. Method			\$	\$
27B	10	Total Phosphorus (Solid)			\$	\$
27C	10	Total Phosphorus Alt. Method (Solid)			\$	\$
28	50	Orthophosphate	SM4500P-E	0.01 mg/L	\$ 16.00	\$ 800.00
28A	10	Orthophosphate Alt. Method			\$	\$
29	50	Total Phosphate		0.01 mg/L	\$	\$
29A	10	Total Phosphate Alt. Method			\$	\$
29B	10	Total Phosphate (Solid)			\$	\$
29C	10	Total Phosphate Alt. Method (Solid)			\$	\$
30	25	BOD	SM5210B	2 mg/L	\$ 18.00	\$ 450.00
30A	10	BOD Alt. Method			\$	\$
31	25	BOD-carbonaceous	SM5210B	2 mg/L	\$ 18.00	\$ 450.00
31A	10	BOD-carbonaceous Alt. Method			\$	\$
32	25	COD	410.4	0.5 mg/L	\$	\$
32A	10	COD Alt. Method		9.31 mg/L	\$ 18.00	\$ 180.00
33	25	TOC	SM5310C	1 mg/L	\$ 20.00	\$ 500.00
33A	10	TOC Alt. Method			\$	\$
34	25	MBAS		0.05 mg/L	\$	\$
34A	10	MBAS Alt. Method			\$	\$
35	25	Phenolics	420.1	0.01 mg/L	\$ 24.00	\$ 240.00
35A	10	Phenolics Alt. Method			\$	\$
35B	10	Phenolics (Solid)			\$	\$
36	25	Total Cyanide	SM4500CN-E	0.005 mg/L	\$ 22.00	\$ 550.00
36A	10	Total Cyanide Alt. Method	335.4	0.00269 mg/L	\$ 22.00	\$ 220.00

ITEM NO	EST QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
36B	10	Total Cyanide (Solid)	9014	0.2248 mg/Kg	\$ 22.00	\$ 220.00
37	200	Hexavalent Chromium	SM3500C-D	0.005 mg/L	\$ 15.00	\$ 3,000.00
37A	10	Hexavalent Chromium Alt. Method	7196A	0.054 mg/L	\$ 15.00	\$ 150.00
37B	10	Hexavalent Chromium (Solid)	7196A	0.6 mg/Kg	\$ 19.00	\$ 190.00
38	25	Oil-Grease	1664A	2 mg/L	\$ 30.00	\$ 750.00
38A	10	Oil-Grease Alt. Method			\$	\$
38B	10	Oil-Grease (Solid)	9071A	24.78 mg/Kg	\$ 30.00	\$ 300.00
39	100	Chlorophyll A		0.5 ug/L	\$	\$
39A	20	Chlorophyll A Alt. Method		5 color units	\$	\$
40	25	Color (APHA)			\$	\$
40A	10	Color (APHA) Alt. Method		10 ADMI value	\$	\$
41	25	Color (ADMI)			\$	\$
41A	10	Color Alt. Method			\$	\$
42	25	Cyanide, Amenable	SM4500CN-G	0.005 mg/L	\$ 22.00	\$ 550.00
42A	10	Cyanide, Amenable Alt. Method		0.005 mg/L	\$	\$
43	25	Cyanide, Free (ASTM)			\$	\$
43A	10	Cyanide, Free Alt. Method		1 mg/L	\$	\$
44	25	Mineral Acidity			\$	\$
44A	10	Mineral Acidity Alt. Method		1 mg/L	\$	\$
45	25	Total Acidity		10 mg/L	\$ 8.00	\$ 80.00
45A	10	Total Acidity Alt. Method	SM2310 B		\$	\$
46	25	Tot Petroleum Hydrocarbons GRO/DRO (8015)	8015 B	0.5 mg/L	\$ 60.00	\$ 1,500.00
46A	10	Tot Petroleum Hydrocarbons GRO/DRO (8015) (Solid)	8015 B	1.83 mg/Kg	\$ 60.00	\$ 600.00
47	25	Fecal Streptococci		4 cfu/100 mL	\$	\$
47A	10	Fecal Streptococci Alt. Method			\$	\$
47B	10	Fecal Streptococci (Solid)			\$	\$
48	25	Escherichia Coli (Numeric Result)		1 cfu/100 ml.	\$	\$
48A	10	E. Coli (Numeric Result) Alt. Method			\$	\$
49	100	Enterococci		1 cfu/100 mL	\$	\$
50	20	Iron Bacteria			\$	\$
51	20	Sulfate Reducing Bacteria		1 mg/L	\$	\$
52	25	Bicarbonate (Standard Methods)			\$	\$
52A	10	Bicarbonate Alt. Method		0.05 mg/L	\$	\$
53	25	Ferrous Iron (Standard Methods)			\$	\$
53A	10	Ferrous Iron Alt. Method		1 mg/L	\$	\$
54	25	Dissolved Organic Carbon			\$	\$
54A	10	Dissolved Organic Carbon Alt. Method		0.005 mg/L	\$	\$
55	4000	Aluminum	200.7	0.0087 mg/L	\$ 4.00	\$ 400.00
55A	100	Aluminum - Alt. method	6010 B	2.91 mg/Kg	\$ 4.00	\$ 40.00
55B	10	Aluminum (Solid)	200.7	0.005 mg/L	\$ 4.00	\$ 80.00
56	20	Antimony	6010 B	0.0041 mg/L	\$ 4.00	\$ 40.00
56A	10	Antimony Alt. Method	6010 B	0.424 mg/Kg	\$ 4.00	\$ 40.00
56B	10	Antimony (Solid)	200.7	0.005 mg/L	\$ 4.00	\$ 80.00
57	20	Arsenic	6010 B	0.00419 mg/L	\$ 4.00	\$ 40.00
57A	10	Arsenic Alt. Method	6010 B	0.463 mg/Kg	\$ 4.00	\$ 40.00
57B	10	Arsenic (Solid)	200.7	0.005 mg/L	\$ 4.00	\$ 80.00
58	20	Barium	6010 B	0.00128 mg/Kg	\$ 4.00	\$ 40.00
58A	10	Barium Alt. Method	6010 B	0.083 mg/Kg	\$ 4.00	\$ 40.00
58B	10	Barium (Solid)		0.00008 mg/L	\$	\$
59	20	Beryllium	200.7	0.00031 mg/L	\$ 4.00	\$ 40.00
59A	10	Beryllium Alt. Method	6010 B	0.071 mg/Kg	\$ 4.00	\$ 40.00
59B	10	Beryllium (Solid)			\$	\$

ITEM NO	EST QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
60	20	Boron	200.7	0.02 mg/L	\$ 4.00	\$ 80.00
60A	10	Boron Alt. Method	6010B	0.0041 mg/Kg	\$ 4.00	\$ 40.00
60B	10	Boron (Solid)	6010B	0.387 mg/Kg	\$ 4.00	\$ 40.00
61	200	Cadmium		0.00005 mg/L	\$	\$
61A	20	Cadmium Alt. Method	200.7	0.0109 mg/L	\$ 4.00	\$ 80.00
61B	10	Cadmium (Solid)	6010B	0.096 mg/Kg	\$ 4.00	\$ 40.00
62	500	Calcium	200.7	0.02 mg/L	\$ 4.00	\$ 2,000.00
62A	20	Calcium Alt. Method	6010B	0.00571 mg/L	\$ 4.00	\$ 80.00
62B	10	Calcium (Solid)	6010B	1.68 mg/Kg	\$ 4.00	\$ 40.00
63	20	Chromium		0.001 mg/L	\$	\$
63A	10	Chromium Alt. Method	200.7	0.00144 mg/L	\$ 4.00	\$ 40.00
63B	10	Chromium (Solid)	6010B	0.211 mg/Kg	\$ 4.00	\$ 40.00
64	20	Cobalt		0.001 mg/L	\$	\$
64A	10	Cobalt Alt. Method	200.7	0.00165 mg/L	\$ 4.00	\$ 40.00
64B	10	Cobalt (Solid)	6010B	0.084 mg/Kg	\$ 4.00	\$ 40.00
65	200	Copper		0.001 mg/L	\$	\$
65A	20	Copper Alt. Method	200.7	0.0013 mg/L	\$ 4.00	\$ 80.00
65B	10	Copper (Solid)	6010B	0.193 mg/Kg	\$ 4.00	\$ 40.00
66	3000	Iron		0.01 mg/L	\$	\$
66A	100	Iron Alt. Method	200.7	0.0365 mg/L	\$ 4.00	\$ 400.00
66B	10	Iron (Solid)	6010B	4.35 mg/Kg	\$ 4.00	\$ 40.00
67	200	Lead		0.00054 mg/L	\$	\$
67A	10	Lead Alt. Method	200.7	0.00224 mg/L	\$ 4.00	\$ 40.00
67B	10	Lead (Solid)	6010B	0.352 mg/Kg	\$ 4.00	\$ 40.00
68	500	Magnesium	200.7	0.05 mg/L	\$ 4.00	\$ 2,000.00
68A	20	Magnesium Alt. Method	6010B	0.0129 mg/L	\$ 4.00	\$ 80.00
68B	10	Magnesium (Solid)	6010B	2.74 mg/Kg	\$ 4.00	\$ 40.00
69	3000	Manganese	200.7	0.005 mg/L	\$ 4.00	\$ 12,000.00
69A	100	Manganese Alt. Method	6010B	0.00164 mg/L	\$ 4.00	\$ 400.00
69B	10	Manganese (Solid)	6010B	0.243 mg/Kg	\$ 4.00	\$ 40.00
70	200	Mercury	7470A	0.0001 mg/L	\$ 14.00	\$ 2,800.00
70A	200	Mercury / Method 1631E		0.5 ng/L	\$	\$
70B	10	Mercury (Solid)	7471A	0.0013 mg/Kg	\$ 14.00	\$ 140.00
71	20	Molybdenum	200.7	0.005 mg/L	\$ 4.00	\$ 80.00
71A	10	Molybdenum Alt. Method	6010B	0.00477 mg/L	\$ 4.00	\$ 40.00
71B	10	Molybdenum (Solid)	6010B	0.196 mg/Kg	\$ 4.00	\$ 40.00
72	200	Nickel	200.7	0.005 mg/L	\$ 4.00	\$ 800.00
72A	20	Nickel Alt. Method	6010B	0.00345 mg/L	\$ 4.00	\$ 80.00
72B	10	Nickel (Solid)	6010B	0.358 mg/Kg	\$ 4.00	\$ 40.00
73	500	Potassium	200.7	0.05 mg/L	\$ 4.00	\$ 2,000.00
73A	20	Potassium Alt. Method	6010B	0.0404 mg/L	\$ 4.00	\$ 80.00
73B	10	Potassium (Solid)	200.7	4.63 mg/Kg	\$ 4.00	\$ 40.00
74	500	Selenium		0.001 mg/L	\$	\$
74A	20	Selenium Alt. Method	200.7	0.00583 mg/L	\$ 4.00	\$ 80.00
74B	10	Selenium (Solid)	6010B	0.38 mg/Kg	\$ 4.00	\$ 40.00
75	200	Silver		0.000072 mg/L	\$	\$
75A	20	Silver Alt. Method	200.7	0.00168 mg/L	\$ 4.00	\$ 80.00
75B	10	Silver	6010B	0.153 mg/Kg	\$ 4.00	\$ 40.00
76	500	Sodium		0.05 mg/L	\$	\$
76A	20	Sodium Alt. Method	200.7	0.439 mg/L	\$ 4.00	\$ 80.00
76B	10	Sodium (Solid)	6010B	28.3 mg/Kg	\$ 4.00	\$ 40.00
77	200	Strontium	200.7	0.001 mg/L	\$ 4.00	\$ 800.00
77A	20	Strontium Alt. Method	6010B	0.00027 mg/L	\$ 4.00	\$ 80.00
78	20	Thallium		0.001 mg/L	\$	\$

ITEM NO	EST QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
78A	10	Thallium Alt. Method	200.7	0.00815 mg/L	\$ 4.00	\$ 40.00
78B	10	Thallium (Solid)	6010B	0.475 mg/Kg	\$ 4.00	\$ 40.00
79	20	Tin	200.7	0.02 mg/L	\$ 4.00	\$ 80.00
79A	10	Tin Alt. Method	6010B	0.00414 mg/L	\$ 4.00	\$ 40.00
79B	10	Tin (Solid)	6010B	1.06 mg/Kg	\$ 4.00	\$ 40.00
80	20	Vanadium	200.7	0.005 mg/L	\$ 4.00	\$ 80.00
80A	10	Vanadium Alt. Method	6010B	0.00123 mg/L	\$ 4.00	\$ 40.00
80B	10	Vanadium (Solid)	6010B	0.177 mg/Kg	\$ 4.00	\$ 40.00
81	200	Zinc	200.7	0.002 mg/L	\$ 4.00	\$ 800.00
81A	20	Zinc Alt. Method	6010B	0.00167 mg/L	\$ 4.00	\$ 80.00
81B	10	Zinc (Solid)	6010B	0.188 mg/Kg	\$ 4.00	\$ 40.00
82	200	Metals Prep Cost			\$ 8.00	\$ 1,600.00
82A	10	Metals Prep Cost (Solid)			\$ 8.00	\$ 80.00
83	20	Gross Alpha	900.0	3 pCi/L	\$ 40.00	\$ 800.00
84	20	Gross Beta	900.0	4 pCi/L	\$ 40.00	\$ 800.00
85	20	Ra-226	903.1	1 pCi/L	\$ 70.00	\$ 1,400.00
86	20	Ra-228	904.0	1 pCi/L	\$ 70.00	\$ 1,400.00
87	20	Total Uranium	ASTM D5174	0.25 ug/L	\$ 50.00	\$ 1,000.00
88	20	Sr-89			\$	\$
89	20	Sr-90	905.0	2 pCi/L	\$ 70.00	\$ 1,400.00
90	20	Tritium (H3)	906.0	400 pCi/L	\$ 60.00	\$ 1,200.00
91	20	Gamma (Cs-137)	901.1	10 pCi/L	\$ 70.00	\$ 1,400.00
92	20	Radon	SM7500-Rn	100 pCi/L	\$ 35.00	\$ 700.00

Toxicity Testing - Freshwater Organisms

Acute:

93	25	Ceriodaphnia			\$	\$
94	10	Daphnia Pulex / D. magna			\$	\$
95	25	Pimephales promelas			\$	\$
Chronic:						
96	25	Ceriodaphnia			\$	\$
97	25	Pimephales promelas (Survival & Growth)			\$	\$

98	200	Analysis of entire "Phase I Parameters" for landfills See Appendix A for list.			\$ 304.00	\$ 60,800
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99	10	Professional staff representation of data in legal/administrative setting per hour			\$ 75.00	\$ 750.00
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Collection of samples - costs associated with sample pickup from the following locations:

100	24	Charleston Office, 601 57th St., SE, Charleston, WV 25304			\$ 0.00	\$ 0
101	24	Teays Office, P.O. Box 662, Teays, WV 25596			\$ 0.00	\$ 0
102	24	Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 26554			\$ 70.00	\$ 1,680.00
103	24	Romney Office, IIC 63, Box 2545, Romney, WV 26757			\$ 150.00	\$ 3,600.00
104	24	French Creek Office, P.O. Box 38, French Creek, WV 26218			\$ 50.00	\$ 1,200.00

* Gross Beta is included w/ Gross Alpha if both constituents are requested and therefore total cost for both is \$40.00.

ITEM NO	EST QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
105	24	Wheeling Office, 131A Peninsula St., Wheeling, WV 26003			\$ 110.00	\$ 2,640.00
106	24	Parkersburg Office, 2311 Ohio Ave., Parkersburg, WV 26010			\$ 50.00	\$ 1,200.00
107	24	Oak Hill Office, 116 Industrial Dr., Oak Hill, WV 25901			\$ 40.00	\$ 960.00
108	24	Logan Office, 1101 George Kostas Dr. Logan, 25601			\$ 35.00	\$ 840.00
109	24	Philippi Office, 105 S Railroad St. Philippi WV 26416			\$ 70.00	\$ 1,680.00
110	24	Welch Office, 311 Court St. Welch 24801			\$ 60.00	\$ 1,440.00
111	5000	Other locations as Cost Per Mile to pickup site			\$ 0.50	\$ 2,500.00
112	10	24 Hour Turn-Around Rush Orders**				80 %
113	10	48 Hour Turn-Around Rush Orders**				60 %
114	10	72 Hour Turn Around Rush Orders**				40 %
TOTAL						\$301,760.00

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. Enter percent increase over standard turn-around time.

Certification



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, WV 25304-2345
Phone: (304) 926-0495
Fax: (304) 926-0497

Earl Ray Tomblin, Governor
Randy C Huffman, Cabinet Secretary
www.wv.dep.gov

31 March 2011

Lab # 143 [6-10-1]
Randal T Hill, Quality Assurance Manager
Pace Analytical Services, Incorporated - Pittsburgh Laboratory
1638 Roseytown Road - Suites: 2, 3, & 4
Greensburg, Pennsylvania 15601

Dear Randy:

I have enclosed the **ATTACHMENT I** recertifying your facility through, **31 January 2012**.

Please do not hesitate to contact me, if you have any questions or concerns. I can be contacted by phone at: 304-472-5124, by fax at: 304-473-4203, by e-mail at: davidfwolfe@frontier.com, or by e-mail at: david.f.wolfe@wv.gov.

Sincerely,

David F Wolfe, PhD
Quality Assurance Officer

Division of Water and Waste Management
28 Hickory Flat Road
Buckhannon, West Virginia 26201-8541

Phone: 304-472-5124
Fax: 304-473-4203

dfw

Enclosure:

Promoting a healthy environment.

Attachment I

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

Annual Certified Parameter List

for

PACE ANALYTICAL SERVICES, INCORPORATED- PITTSBURGH
GREENSBURG, PENNSYLVANIA

PARAMETERS CERTIFIED

NONPOTABLE WATER FIELD TESTS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
pH (Field Test - Hydrogen Ion)	SM20th4500-H B	Probe
Temperature(Field Test)	SM20th2550 B	Probe

NONPOTABLE WATER INORGANICS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acidity	SM20th2310 B (4a)	Titrimetric
Alkalinity	SM20th2330B	Titrimetric
Ammonia	EPA350.1	Discrete
Chloride	SM20th4500-Cl E	Discrete
Conductance, Specific	EPA120.1	Probe
Chromium, Hexavalent	SM19th3500-Cr D	Colorimetric
Chromium, Hexavalent	SW7196A	Colorimetric
Cyanide	SM20th4500-CN C	Distillation
Cyanide, Total	SM20th 4500-CN E	Spectrometric
Cyanide, Total	EPA335.4	Spectrometric
Cyanide, Amenable	SM20th4500-CN G	Spectrometric
Demand, Biochemical(BOD)	SM20th5210 B	Probe
Demand, Carbonaceous(CBOD)	SM20th5210 B	Probe
Demand, Chemical Oxygen (COD)	EPA410.4	Spectrometric
Fluoride	EPA300.0	IC
Fluoride	SM20th4500-F B	Distillation
Fluoride	SM20th4500-F C	ISElectrode
Hardness, Total	SM20th2340 B	ICP Calculation
Hardness, Total	EPA200.7 Rev 4.4-1994	ICP Calculation
Kjeldahl Nitrogen, Total	SM20th4500-Norg B	Digestion
Kjeldahl Nitrogen, Total	SM20th4500-NH3 B	Distillation
Kjeldahl Nitrogen, Total	EPA351.2	Discrete

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6010B	ICP
Antimony	SW6010B	ICP
Arsenic	SW6010B	ICP
Barium	SW6010B	ICP
Beryllium	SW6010B	ICP
Boron	SW6010B	ICP
Cadmium	SW6010B	ICP
Calcium	SW6010B	ICP
Chromium	SW6010B	ICP
Cobalt	SW6010B	ICP
Copper	SW6010B	ICP
Iron	SW6010B	ICP
Lead	SW6010B	ICP
Magnesium	SW6010B	ICP
Manganese	SW6010B	ICP
Molybdenum	SW6010B	ICP
Nickel	SW6010B	ICP
Potassium	SW6010B	ICP
Selenium	SW6010B	ICP
Silver	SW6010B	ICP
Sodium	SW6010B	ICP
Strontium	SW6010B	ICP
Thallium	SW6010B	ICP
Tin	SW6010B	ICP
Titanium	SW6010B	ICP
Vanadium	SW6010B	ICP
Zinc	SW6010B	ICP
Mercury	SW7470A	CVAA

NONPOTABLE WATER VOLATILES

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Purgeables	EPA624	GC/MS
Total Petroleumis (TPH - Fuel - GRO)	SW8015B	GC/FID
Volatiles	SW8260B	GC/MS

NONPOTABLE WATER EXTRACTABLES & SEMI-VOLATILES

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Pesticides & PCBs	EPA608	GC/ECD
Base/Neutrals & Acids	EPA625	GC/MS
Total Petroleumis (TPH - Fuel - DRO)	SW8015B	GC/FID
Organochlorine Pesticides	SW8081A	GC/ECD
Polychlorinated Biphenyls	SW8082	GC/ECD
Semi-volatiles	SW8270C	GC/MS
Polynuclear Aromatics (PAHs/PNAs)	SW8270-SIM	GC/MS-SIM

NONPOTABLE WATER RADIOCHEMISTRY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Alpha Counting Error	EPA900.0	Gas Flow Proportional
Beta Counting Error	EPA900.0	Gas Flow Proportional
Gross Alpha	EPA900.0	Gas Flow Proportional
Gross Beta	EPA900.0	Gas Flow Proportional
Gamma Emitters	EPA901.1	Gamma Spectroscopy
Alpha Radium	EPA903.0	Gas Flow Proportional
Strontium-90	EPA-905.0	Gas Flow Proportional
Tritium	EPA-906.0	Gas Flow Proportional
Uranium	EPA-908.0	Gas Flow Proportional
Radium 226	SM20th7500Ra C	Scintillation Cell System
Radium 228	SM20th7500Ra D	Gas Flow Proportional
Isotopic Thorium	US DOE EML-HASL-300	Alpha Spectroscopy
Isotopic Uranium	US DOE EML-HASL-300	Alpha Spectroscopy

HAZARDOUS WASTE CHARACTERISTICS

<u>PROCEDURE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Corrosivity (Water)	SW9040B	Probe
Corrosivity (Soil)	SW9045C	Probe
Ignitability (Penske-Martin)	SW1010A	Closed Cup
Paint Filter Test	SW9095B	Gravimetric
Reactive Cyanide	Chap 7.3.3.2	SW9010/9012A/9014
Reactive Sulfide	Chap 7.3.4.2	SW9030/9034
TCLP (Metals & Organics)	SW1311	Rotating Extractor

SOLID & CHEMICAL INORGANICS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Chromium, Hexavalent	SW7196A	Spectrometric
Cyanide, Total	SW9014	Spectrometric
Hardness, Total	SW6010B	ICP Calculation
Oil & Grease	SW9071A	Gravimetric

SOLID & CHEMICAL TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6010B	ICP
Antimony	SW6010B	ICP
Arsenic	SW6010B	ICP
Barium	SW6010B	ICP
Beryllium	SW6010B	ICP
Boron	SW6010B	ICP
Cadmium	SW6010B	ICP
Calcium	SW6010B	ICP
Chromium	SW6010B	ICP
Cobalt	SW6010B	ICP
Copper	SW6010B	ICP
Iron	SW6010B	ICP
Lead	SW6010B	ICP
Magnesium	SW6010B	ICP
Manganese	SW6010B	ICP
Molybdenum	SW6010B	ICP
Nickel	SW6010B	ICP
Potassium	SW6010B	ICP
Selenium	SW6010B	ICP
Silver	SW6010B	ICP
Sodium	SW6010B	ICP
Strontium	SW6010B	ICP
Thallium	SW6010B	ICP
Tin	SW6010B	ICP
Titanium	SW6010B	ICP
Vanadium	SW6010B	ICP
Zinc	SW6010B	ICP
Mercury	SW7471A	CVAA

SOLID & CHEMICAL VOLATILES

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Total Petroleums (TPH - Fuel - GRO)	SW8015B	GC/FID
Volatiles	SW8260B	GC/MS

SOLID & CHEMICAL EXTRACTABLES & SEMI-VOLATILES

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Total Petroleums (TPH - Fuel - DRO)	SW8015B	GC/FID
Organochlorine Pesticides	SW8081A	GC/ECD
Polychlorinated Biphenyls (PCBs)	SW8082	GC/ECD
Semi-volatiles	SW8270C	GC/MS
Polynuclear Aromatics (PAHs/PNAs)	SW8270-SIM	GC/MS-SIM

SOLID & CHEMICAL RADIOCHEMISTRY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Gross Alpha Gross Beta	SW9310 SW9310	Gas Flow Proportional Gas Flow Proportional
Gamma Emitters Gamma Spectrometry(Ra-226 modified) Gamma Spectrometry(Ra-228 modified)	EPA901.0 EPA901.1 EPA901.1	Gamma Spectroscopy Gamma Spectroscopy Gamma Spectroscopy
Strontium-90 Strontium-90	US DOE EML-HASL-300 EPA-905.0	Alpha Spectroscopy Gas Flow Proportional
Isotopic Thorium Isotopic Uranium	US DOE EML-HASL-300 US DOE EML-HASL-300	Alpha Spectroscopy Alpha Spectroscopy

EXTRACTION, DIGESTION, CLEANUP, & PREPARATORY METHODS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Metals Digestion Metals Digestion	EPA200.7 Rev 4.4-1994 EPA200.7 Rev 4.4-1994	Total Dissolved
Metals digestion Metals digestion Metals digestion Metals digestion	SW3005A SW3050B SW3051A SW3060A	Hot Block Acid Microwave Hexchrome
Extraction Extraction Extraction Extraction Extraction Extraction Extraction	SW3500B SW3510C SW3520C SW3535A SW3546 SW3550B SW3580A	Organic Samples Separatory Funnel (LL) Continuous (CLL) Solid Phase (SPE) Pressurized Fluid (PFE) Ultrasonic (Sonication) Waste Dilution
Cleanup Cleanup	SW3660B SW3665A	Sulfur H ₂ SO ₄ /Permanganate
Extraction (Aqueous) Extraction (Soils)	SW5030B SW5035	Purge & Trap (P&T) Purge & Trap (Closed)

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 On, **31 January 2012**.

Certificate No. **143**.

David F. Wolfe Issued On, **31 March 2011**.

David F Wolfe, PhD
Quality Assurance Officer

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Key Staff Chemists

Resumes



Dennis J. Leeke
General Manager
Pace Analytical Services, Inc.

Experience

Mr. Leeke joined Pace Analytical Services in 2011. He is currently serving as the General Manager. He is responsible for the day-to-day activities of the Pittsburgh Laboratory. His job duties include:

- Supervise department managers, providing guidance in the management of personnel, quality of services, technical competence, productivity and technical expansion, and assure a smooth operation of the support functions for the laboratory
- Develop and maintain laboratory client business base working closely with sales team
- Profit and loss responsibility for the laboratory, development of annual budget, business and marketing plans

Previous Experience

Prior to joining Pace, Mr. Leeke worked at Underwriters Laboratories as the Business Manager of their Water Business. His job duties included:

- Site manager for drinking water laboratory, operations manager for an engineering team, and provided support for international expansion of the business in Asia and Europe
- Led customer service, sales, operations, and administration teams
- Managed operating and capital budgets with responsibility for top and bottom line performance

Instrumentation

GC-ECD, GC-FID, GC-MS, ICP-OES, ICP-MS, IC, CVAA, FAA, GFAA, TOX

Education

Master of Business Administration, Magna Cum Laude
University of Notre Dame, Notre Dame, Indiana 2009

Bachelor of Arts, Cum Laude, Biology Major/Chemistry Minor
Franklin College, Franklin, Indiana 1993

DANETTE S. CAVALIER
Semivolatile Laboratory Supervisor
Pace Analytical Services, Inc.
Pittsburgh Laboratory

Experience

Danette Cavalier joined Pace Analytical Services in July 2006. She started as an analyst in the Organic Preparation department and was promoted to the group leader of the department in August 2007. In April of 2011 she became the Semivolatile Laboratory Supervisor. She is responsible for the Semivolatile and Organic Preparation departments at the Pittsburgh Laboratory. Her job duties include:

- Supervise and manage the Semivolatile and Organic Preparation departments.
- Develop and maintain department SOPs and quality programs.
- Ensure and guide staff training and cross training.

Previous Experience

Prior to joining Pace, Ms. Cavalier started her career at Lancaster Laboratories. She held positions as a Project Manager and Chemist over the course of 5 years.

- Communicate and interact with clients.
- Manage and review client projects.
- Prepare and extract samples for semivolatile analysis.

Instrumentation

GC-FID, GC-ECD, MARS, ASE 200

Education

Bachelor of Science, Biology, Pennsylvania State University, State College, PA, 2000.



Jennifer L. Holmes Ph.D.
Senior Quality Manager
Pace Analytical Services, Inc.

Experience

Dr. Holmes joined Pace Analytical Services in 2010. She is currently serving as the Senior Quality Manager. She is responsible for the quality assurance at the Pittsburgh Laboratory. Her job duties include:

- Supervise department manager and assistant(s), providing guidance in the management of quality including updating standard operating procedures (SOPs).
- Develop and maintain laboratory Quality plan including overseeing project specific Quality plans
- Maintaining quality systems that includes both radiological and environmental methods.

Previous Experience

Prior to joining Pace, Dr. Holmes worked at Washington State Department of Health Public Health Lab as a Chemist III. Her job duties included:

- Project lead performing and developing methods to look for radionuclides in various matrices including but not limited to: food, water, soil, sediment and waste.
- Reported to several managerial groups and committees on progress of developing procedures for screening various products for radiation
- Led teams to validate fast radiochemical procedures and also had training and trained other as to microwave digestion sample preparation.

Instrumentation

GC-ECD, GC-FID, GC-MS, ICP-OES, ICP-MS, IC, CVAA, GFAA, TOX, TOC, GFPC, Alpha Spectrometer, Gamma Spectrometer, Liquid Scintillation Counter, distillations, pH, COD/BOD, and FTIR.

Education

Ph. D. Chemistry, University of Washington, Seattle, WA, 1993.

Bachelor of Science, Chemistry, Arizona State University, Tempe AZ, 1985

Richard M. Kinney
Radiochemistry Operations Manager
Pace Analytical Services, Inc. Pittsburgh Laboratory
Radiochemistry Laboratory

Experience

Mr. Kinney joined Pace Analytical in August of 2002 as the Laboratory Supervisor of Pace's Radiochemistry Laboratory at Waltz Mill. He is responsible for the day-to-day operation of the laboratory including management of all technical staff and technical systems. He is responsible for developing analytical methods and laboratory procedures intended to add new capabilities, improve technical performance or enhance productivity. He assists the technical staff in troubleshooting complex problems associated with measuring radioactivity.

Prior to joining Pace, Mr. Kinney served as the Radiation Safety Officer and Manager of the Radiochemistry Department of Acculabs, Inc. in Golden, CO. There, he was responsible for the day-to-day management of the Radiochemistry Department as well as equipment acquisition and installation. His Radiation Safety Officer duties included safety training, safety system development and coordination with government authorities to ensure compliance with the laboratory's Radioactive Materials License. Mr. Kinney had similar responsibilities as Manager and Radiation Safety Officer during his 5 years with General Engineering Laboratories in Charleston, SC and Pace, Inc. in Golden CO.

As part of his more than 23 years of laboratory experience, Mr. Kinney spent 7 years as a radiochemist and radiochemistry laboratory manager with Environmental Science & Engineering in Gainesville, FL.

Education

B.S., Physics, Southeastern Louisiana University, 1987

Training

Perkin Elmer/Ortec – Oak Ridge, TN

- Advanced Alpha Spectroscopy Training Course, 2000
- Advanced Gamma Spectroscopy Training Course, 1989
- Alpha Spectroscopy Training Course, 1989

Technical Management Services – Boston, MA

- Practical Radiochemistry Course, 1992

State of Florida Training – Tallahassee, FL

- Radon Measurement Specialist Training, 1989, 1991

MICHAEL. A. KLUNK JR.
Laboratory Analyst II/Supervisor
Pace Analytical Services, Inc.
Pittsburgh Laboratory

Experience

Michael Klunk joined Pace Analytical in May 2002 as an Environmental Sampler and was promoted to Laboratory Analyst III/Supervisor of the Volatile Department in October of 2003. In November of 2006 Mr. Klunk was promoted to Laboratory Supervisor. He oversees the Volatiles department and their staff. He is responsible for staff training, developing SOPs, developing quality programs, performing maintenance on instruments, and ensuring that all analyses are conducted on time.

Prior to his appointment to Laboratory Supervisor, Mr. Klunk was the Senior Analyst of the Volatile Department.

Mr. Klunk has over 10 years of professional experience as an analyst or supervisor. Prior to joining the Pittsburgh Laboratory, Mr. Klunk gained technical experience by serving in several additional responsible positions. These include the following.

- K Chem Lac, Inc., Latrobe, PA – Laboratory Technician, 1997-2002
- Stewart Laboratories, Strattanville, PA – Laboratory Technician, 1996-1997

Education

B.S. (pending), Chemistry, Clarion University of Pennsylvania, expected date 2012



Brayan Hampton
Inorganic Supervisor
Pace Analytical Services, Inc.

Experience

Brayan Hampton joined Pace Analytical in October 2005 as the General Chemistry Supervisor. In October of 2009 Mr. Hampton became the supervisor for the Inorganics departments, which includes General Chemistry, Metals, and Microbiology. Mr. Hampton is responsible for staff training, SOP development, maintenance, general management and supervision of the Inorganics departments. He supervises 2 overlapping shifts for a total of 8 analysts. Brayan has over 10 years of laboratory experience, including extensive knowledge of wet chemistry as well as metals and GC/MS experience.

Previous Experience

Prior to joining the Pittsburgh Laboratory, Mr. Hampton gained extensive knowledge and technical experience in the environmental field by serving in several capacities in laboratory testing. These include the following:

- Firstech Inc. Cleveland, Ohio. Inorganic Chemistry Supervisor, June 1999-Jan 2005.
- Security Resource Management, Latrobe, PA. Metals Group Leader 1998-1999.
- United States Army Forensic Drug Testing Laboratory, Wiesbaden, Germany. Quality Assurance and Radio Immunoassay Department. Jan 1990-Sept 1992.

Instrumentation

Lachat FIA, Aurora TOC Analyzer, pH meters, Smartchem Discrete Analyzer, Dionex IC, BOD meter, Perkin Elmer AA, and Thermo ICP.

Education

B.S. Natural Sciences, University of Pittsburgh. Cum Laude. 1998

PENNY J. WESTRICK
Client Services Manager and Project Manager
Pace Analytical Services, Inc.
Pittsburgh Laboratory

Experience

Penny Westrick joined Pace Analytical in May 2002 with Pace Analytical's acquisition of the environmental laboratory of Antech Ltd. She joined Antech as a Laboratory Technician in 1989 and was appointed Client Services Manager and Project Manager in 2001. In addition to serving as the primary liaison between the laboratory and clients, including coordinating with lab operations supervisors to ensure projects are completed according to client requirements and on time, Ms. Westrick also supervises the Sample Management, Field Services, and Courier teams. Penny has 20 years of experience in providing quality environmental laboratory services, as an analyst, lab supervisor, and project manager as well as playing a large roll with safety operations.

Prior to her appointment as Client Services Manager and Project Manager, Ms. Westrick served as a Laboratory Technician, Organic Analyst, and Group Leader for Pesticides/PCBs. In addition to analyzing environmental samples, her responsibility as a group leader included quality, technical, and operations leadership.

Before joining the Pace Analytical, Pittsburgh Laboratory, Ms. Westrick gained additional technical experience as a Sample Receiving Technician for Med-Chek Laboratories in Pittsburgh, PA.

Education

B.S., Microbiology, University of Pittsburgh, 1987