



RELiance LABORATORIES, INC.

BENEDUM INDUSTRIAL PARK
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**ENVIRONMENTAL
ANALYSTS AND
CONSULTANTS**

RIDGEFIELD BUSINESS CENTER
25 CRIMSON CIRCLE
MARTINSBURG, WV 25403

VOICE: 304-596-2084
FAX: 304-596-2086

BLUESTONE ENERGY

215 E. WASHINGTON AVE
ELLENBORO

WV 26346

Monday, February 02, 2009

Lab Number 126829-2009-W Sample ID BOOKER #4

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MCL
Ammonia Nitrogen	75.0	mg/l	SM4500NH3C	1/26/2009 9:30	L.Lanham	0.17	
Total Nitrate as N	ND	mg/l	EPA 300.0	1/22/2009 19:05	M.Coffman	0.028	
Total Nitrite as N	ND	mg/l	EPA 300.0	1/22/2009 19:05	M.Coffman	0.017	
pH	6.42	S.U.	SM4500H+B	1/22/2009 15:11	M.Coffman		
Total Phosphorus	0.10	mg/l	SM4500P-E	1/27/2009 8:30	M.Coffman	0.05	
Chemical Oxygen Demand	4863	mg/l	EPA 410.4	1/23/2009 14:00	A.Seitz	2.94	
Total Alkalinity	34.8	mg/l	SM2320B	1/22/2009 15:11	M.Coffman	2.81	
Total Chloride	26992	mg/l	EPA 300.0	1/27/2009 15:30	M.Coffman	0.15	
Total Hardness	11800	mg/l	SM 2340C	1/26/2009 14:30	T. Miller	0.31	
Total Aluminum	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.009	
Total Barium	36.3	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.003	
Total Cadmium	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.002	
Total Calcium	3320	mg/l	EPA 200.7	1/28/2009 16:37	T.Hanshaw	0.078	
Total Chromium	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.006	
Total Copper	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.005	
Total Iron	26.5	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.004	
Total Lead	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.005	
Total Magnesium	344	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.03	
Total Manganese	5.80	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.007	

Remarks:

Date Sample Collected 1/21/2009 13:00
Sample Submitted By T. Wyckoff
Date Sample Received: 1/21/2009 16:49

EMAIL COPY

ND = Not Detected

MDL - Minimum Detectable Limit

PQL - Practical Quantifiable Limit

MCL - Maximum Contaminant Level, USEPA Regulated

[MCL] = Maximum Contaminant Level, Non-Regulated

* Method Code: STANDARD METHODS 18TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd Edition



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Total Molybdenum	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.01	
Total Nickel	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.006	
Total Potassium	521	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.06	
Total Sodium	534	mg/l	EPA 200.7	1/28/2009 16:37	T.Hanshaw	0.11	
Total Zinc	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.002	
Specific Conductivity	67932	umhos	EPA 120.1	1/22/2009 15:11	M.Coffman	0.14	
Total Boron	10.6	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.024	
Total Organic Carbon	0.73	mg/l	SM5310C	1/26/2009 8:50	A.Seitz	0.1	
Total Sulfate	ND	mg/l	EPA 300.0	1/26/2009 14:00	T. Miller	0.05	
Dissolved Aluminum	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.009	
Dissolved Barium	33.0	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.003	
Dissolved Boron	10.6	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.024	
Dissolved Cadmium	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.002	
Dissolved Calcium	2900	mg/l	EPA 200.7	1/28/2009 16:40	T.Hanshaw	0.078	
Dissolved Chromium	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.006	
Dissolved Copper	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.005	
Dissolved Iron	14.0	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.004	
Dissolved Lead	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.005	
Dissolved Magnesium	328	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.03	

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Dissolved Manganese	5.50	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.007	
Dissolved Molybdenum	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.01	
Dissolved Nickel	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.006	
Dissolved Silicon	0.030	mg/l	EPA 200.7	1/28/2009 15:10	T.Hanshaw		
Dissolved Zinc	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.002	
Total Vanadium	ND	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.008	
Bicarbonate Alkalinity	ND	mg/l	SM2320B	1/22/2009 15:11	M.Coffman	2.81	
Total Bromide	ND	mg/l	EPA 300.0	1/22/2009 19:05	M.Coffman	0.05	
Total Strontium	855	mg/l	EPA 200.7	1/28/2009 11:07	T.Hanshaw		
Dissolved Sodium	486	mg/l	EPA 200.7	1/28/2009 16:40	T.Hanshaw	0.11	
Total Silica (SiO ₂)	7.49	mg/l	EPA 200.7	1/30/2009 9:55	T.Hanshaw	0.01	
Dissolved Potassium	481	mg/l	EPA 200.7	1/26/2009 12:09	T.Hanshaw	0.06	

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