

Maye	17-Jul	10-Nov	DEP 11/19/08
	Pre	Post	
pH	6.3	6.26	7.4
Coliform(fecal)	0	0	
TSS	<5	35.5	
TDS	149	127	154
SPC			262
Alkalinity			94.8
Hardness			103
Na			14.2
Ca			31.6
Chloride	7.9	12.7	12.1
Iron	0.03	3.38	0.135
Magnesium	5.96	6.79	5.76
K			1.07
Ba		0.186	0.134
Al		4.88	<0.2
Mn		0.062	<0.010
Sr			0.129
Sulfide	<1		
Sufactants	<0.2		
Oil & Grease	<5.0	<5.0	
MTBE	<0.005	<0.0005	
MBAS		<0.020	
Benzene	<0.005	<0.0005	
Ethyl Benzene	<0.005	<0.0005	
Toulene	<0.005	<0.0005	
Total Xylenes	<0.005		
LEL	0	<1%	
o-Xylene		0.0005	
m,p-Xylenes		<0.001	

Tasted funny 11/7/2008  
Water turned brown 11/9/2008



SERVER

GAS MIGRATION INVESTIGATION

MAYE WATER

Maye	7/17/2008	11/10/2008	11/19/2008
	NEEL	Quantum	BOGM
	Pre	Post	
Methane			
Ethane			
pH	6.3	6.26	7.4
Coliform(fecal)	0	0	
TSS	<5	35.5	
TDS	149	127	154
SPC			262
Alkalinity			94.8
Hardness			103
Na			14.2
Ca			31.6
Chloride	7.9	12.7	12.1
Iron	0.03	3.38	0.135
Magnesium	5.96	6.79	5.76
K			1.07
Ba		0.186	0.134
Al		4.88	<0.2
Mn		0.062	<0.010
Sr			0.129
Sulfide	<1		
Sufactants	<0.2		
Oil & Grease	<5.0	<5.0	
MTBE	<0.005	<0.0005	
MBAS		<0.020	
Benzene	<0.005	<0.0005	
Ethyl Benzene	<0.005	<0.0005	
Toulene	<0.005	<0.0005	
Total Xylenes	<0.005		
LEL	0	<1%	
o-Xylene		0.0005	
m,p-Xylenes		<0.001	
Hg			
Turbidity			
Nitrite-N			

Nitrate-N			
Se			
Tl			
Ni			
Cd			
Cr			
Sb			
Be			
As			
Sulfate			
Cu			
Zn			
Color			
Tasted funny 11/7/2008			
Water turned brown 11/9/2008			



	3.37	
	<0.007	
	<0.002	
	<0.050	
	<0.0002	
	<0.004	
	<0.002	
	<0.001	
	<0.003	
		13.1
		0.018
		0.032
		<5 PT/C

1/12/2009	MCL
BOGM	
7.99	3 (Notification)
0.086	3 (Notification)
	6.5-8.5
	500
	250
	0.3
	0.2
	0.2
	0.05





Date of Issue: 01/28/2009 12:58:49  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 1

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 091 11/19/2008 Status: COMPLETED

Name of Sample Collector: Michael O'Donnell  
Date Sample was Collected: 11/19/2008 09:30:00 AM

County: Susquehanna State: PA  
Municipality: Dimock Twp

---

DEBBIE MAYE  
RR 6 BOX 6147A  
CARTER ROAD  
MONTROSE PA 18801-

---

Sample Medium: Water  
Sample Medium Type: Ground Water

Location: NOT INDICATED  
Reason: Routine Sampling

SAC 942 plus Aluminum

Appearance: Clear sample taken at pressure tank

Laboratory Sample ID: I2008042121  
Standard Analysis: 942

COMPLETED

(continued)

Date of Issue: 01/28/2009 12:58:49  
 DEP Bureau Of Laboratories - Harrisburg  
 P.O. Box 1467  
 2575 Interstate Drive  
 Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
 Oil And Gas Mgmt

Sample ID: 4530 091 11/19/2008 Status: COMPLETED

Legal Seal: G020918 Intact: YES  
 Legal Seal: G020919 Intact: YES

Test/Codes CAS# - Description Approver Test Method	Reported Results	Date Approved
01082A STRONTIUM T MOBERCASH EPA 200.7	129.000 UG/L	11/21/2008
00515 TDS @105 C JKAROL USGS I-1749	154. MG/L	11/21/2008
01055A MANGANESE T MOBERCASH EPA 200.7	<10.00 UG/L	11/21/2008
01105A ALUMINUM T MOBERCASH EPA 200.7	<200 UG/L	11/21/2008
01007A BARIUM T MOBERCASH EPA 200.7	134.000 UG/L	11/21/2008
00916A CALCIUM T MOBERCASH EPA 200.7	31.600 MG/L	11/21/2008
01045A IRON T MOBERCASH EPA 200.7	135.000 UG/L	11/21/2008
00937A POTASSIUM T MOBERCASH EPA 200.7	1.070 MG/L	11/21/2008
00929A SODIUM T MOBERCASH EPA 200.7	14.200 MG/L	11/21/2008
00940A CHLORIDE CRADEK SM 4500-CL	12.1 MG/L	11/26/2008
00900 Hardness T MOBERCASH SM 2340 B	103 MG/L	11/21/2008
00403 pH SHUTCHISON SM 4500H-B	7.4 pH units	12/01/2008
** Comment ** Time Limit For Test Exceeded		
00095 SPC @ 25.0 C SHUTCHISON SM 2510B	262.00 umhos/cm	11/21/2008
00410 ALKALINITY SHUTCHISON SM 2320B	94.8 MG/L	12/01/2008
** Comment ** Alkalinity Measured to Endpoint 4.5		
00927A MAGNESIUM T MOBERCASH EPA 200.7	5.760 MG/L	11/21/2008

Date of Issue: 01/28/2009 12:58:49  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 091 11/19/2008 Status: COMPLETED

\*\*\*\*\*  
The results of the analyses provided in this laboratory report relate only  
to the sample(s) identified in the report.

Taru Upadhyay, Technical Director, Bureau of Laboratories

\*\*\*\*\*

End of Report

Date of Issue: 12/30/2008 00:30:01  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 1

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Water Supply Management

Sample ID: 1236 011 12/16/2008 Status: COMPLETED

Name of Sample Collector: Len Shebby  
Date Sample was Collected: 12/16/2008

County: Susquehanna State: PA  
Municipality: Dimock Twp

---

MAYE  
CARTER RD  
DIMMOCK PA 18816-

---

Sample Medium: Water  
Sample Medium Type: Ground Water

Location: NOT INDICATED  
Reason: Routine Sampling

complaint

Appearance: fine

Field Tests

---

Temperature	53	C
Chlorine - Free	0	MG/L

(continued)

Date of Issue: 12/30/2008 00:30:01  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 2

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Water Supply Management

Sample ID: 1236 011 12/16/2008 Status: COMPLETED

Laboratory Sample ID: B2008015055 Date Received: 12/17/2008 COMPLETED  
Standard Analysis: B001

Legal Seal: F042370 Intact: YES

Test/Codes CAS# - Description	Reported Results	Date Approved
31501 COLIFORM FIL	6 /100ML	12/22/2008
JBABICZ SM 9222B		

(continued)

Date of Issue: 12/30/2008 00:30:01  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Water Supply Management

Sample ID: 1236 011 12/16/2008 Status: COMPLETED

\*\*\*\*\*  
The results of the analyses provided in this laboratory report relate only  
to the sample(s) identified in the report.

Taru Upadhyay, Technical Director, Bureau of Laboratories

\*\*\*\*\*

End of Report

Date of Issue: 12/30/2008 00:30:01  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Water Supply Management

Sample ID: 1236 009 12/16/2008 Status: COMPLETED

Name of Sample Collector: Len Shebby  
Date Sample was Collected: 12/16/2008

County: Susquehanna State: PA  
Municipality: Dimock Twp

---

MAYE  
CARTER RD  
DIMMOCK PA 18816-

---

Sample Medium: Water  
Sample Medium Type: Ground Water

Location: NOT INDICATED  
Reason: Routine Sampling  
complaint

Appearance: fine

Field Tests

---

Temperature	53	C
Chlorine - Free	0	MG/L

---

(continued)

Date of Issue: 12/30/2008 00:30:01  
 DEP Bureau Of Laboratories - Harrisburg  
 P.O. Box 1467  
 2575 Interstate Drive  
 Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
 Water Supply Management

Sample ID: 1236 009 12/16/2008 Status: COMPLETED

Laboratory Sample ID: I2008044758 COMPLETED  
 Standard Analysis: 160

Legal Seal: F042372 Intact: YES  
 Legal Seal: F042373 Intact: YES

Test/Codes CAS# - Description	Reported Results	Date Approved
Approver Test Method		
00940 CHLORIDE -IC	20.60 MG/L	12/18/2008
FVODOPIVEC EPA 300.0		
00945 SULFATE - IC	13.10 MG/L	12/18/2008
FVODOPIVEC EPA 300.0		
01042H COPPER T	18.000 UG/L	12/17/2008
DSOLENBERG EPA 200.8		
01105H ALUMINUM T	71.400 UG/L	12/17/2008
DSOLENBERG EPA 200.8		
00927A MAGNESIUM T	6.377 MG/L	12/18/2008
RWHEELER EPA 200.7		
00515 TDS @105 C	166. MG/L	12/24/2008
LWILKINSON USGS I-1749		
01045A IRON T	86.000 UG/L	12/18/2008
RWHEELER EPA 200.7		
00929A SODIUM T	9.240 MG/L	12/18/2008
RWHEELER EPA 200.7		
01092A ZINC T	32.000 UG/L	12/18/2008
RWHEELER EPA 200.7		
00080 COLOR	<5 PT/C	12/18/2008
TVOROBAYCH SM 2120B		
00403 pH	7.1 pH units	12/23/2008
SHUTCHISON SM 4500H-B		
** Comment ** Time Limit For Test Exceeded		
01055A MANGANESE T	<10.00 UG/L	12/18/2008
RWHEELER EPA 200.7		

(continued)



Date of Issue: 12/30/2008 00:30:01  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Water Supply Management

Sample ID: 1236 009 12/16/2008 Status: COMPLETED

\*\*\*\*\*  
The results of the analyses provided in this laboratory report relate only  
to the sample(s) identified in the report.

Taru Upadhyay, Technical Director, Bureau of Laboratories

\*\*\*\*\*

End of Report

Date of Issue: 12/30/2008 00:30:01  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 1

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Water Supply Management

Sample ID: 1236 010 12/16/2008 Status: COMPLETED

Name of Sample Collector: Len Shebby  
Date Sample was Collected: 12/16/2008

County: Susquehanna State: PA  
Municipality: Dimock Twp

---

MAYE  
CARTER RD  
DIMMOCK PA 18816-

---

Sample Medium: Water  
Sample Medium Type: Ground Water

Location: NOT INDICATED  
Reason: Routine Sampling

complaint

Appearance: fine

Field Tests

---

Temperature	53	C
pH	6.9	pH unit
Chlorine - Free	0	MG/L

(continued)

Date of Issue: 12/30/2008 00:30:01  
 DEP Bureau Of Laboratories - Harrisburg  
 P.O. Box 1467  
 2575 Interstate Drive  
 Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
 Water Supply Management

Sample ID: 1236 010 12/16/2008 Status: COMPLETED

Laboratory Sample ID: I2008044759 COMPLETED  
 Standard Analysis: 161

Legal Seal: F042374 Intact: YES  
 Legal Seal: F042375 Intact: YES

Test/Codes CAS# - Description	Reported Results	Date Approved
Approver Test Method		
71900I MERCURY T	<.2 UG/L	12/18/2008
LOJEDA EPA 245.1		
82079A TURBIDITY	2.65 NTU	12/18/2008
TVOROBAYCH EPA 180.1		
00615A NITRITE-N	0.04 MG/L	12/24/2008
AMCANENY EPA 353.2		
00620A Nitrate-N	3.37 MG/L	12/24/2008
AMCANENY EPA 353.2		
01147H SELENIUM T	<7 UG/L	12/17/2008
DSOLENBERG EPA 200.8		
01059H THALLIUM T	<2 UG/L	12/17/2008
DSOLENBERG EPA 200.8		
01067A NICKEL T	<50 UG/L	12/18/2008
RWHEELER EPA 200.7		
01027H CADMIUM T	<0.2 UG/L	12/17/2008
DSOLENBERG EPA 200.8		
01034H CHROMIUM T	<4 UG/L	12/17/2008
DSOLENBERG EPA 200.8		
01097H ANTIMONY T	<2.00 UG/L	12/17/2008
DSOLENBERG EPA 200.8		
01007A BARIUM T	141.000 UG/L	12/18/2008
RWHEELER EPA 200.7		
01012A BERYLLIUM T	<1.0 UG/L	12/18/2008
RWHEELER EPA 200.7		
01002H ARSENIC T	<3.0 UG/L	12/17/2008
DSOLENBERG EPA 200.8		

(continued)

Date of Issue: 12/30/2008 00:30:01  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Water Supply Management

Sample ID: 1236 010 12/16/2008 Status: COMPLETED

\*\*\*\*\*  
The results of the analyses provided in this laboratory report relate only  
to the sample(s) identified in the report.

Taru Upadhyay, Technical Director, Bureau of Laboratories

\*\*\*\*\*

End of Report

Date of Issue: 01/28/2009 12:57:37  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 1

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 096 12/16/2008 Status: COMPLETED

Name of Sample Collector: Michael O'Donnell  
Date Sample was Collected: 12/16/2008 12:20:00 PM

County: Susquehanna State: PA  
Municipality: Dimock Twp

---

DEBBIE MAYE  
RR 6 BOX 6147A CARTER ROAD  
MONTROSE PA 18801-

---

Sample Medium: Water  
Sample Medium Type: Ground Water

Location: NOT INDICATED  
Reason: Complaint

SAC 942 plus Aluminum

Appearance: Sample clear no treatment

Laboratory Sample ID: I2008044940  
Standard Analysis: 942

COMPLETED

Legal Seal: G020910 Intact: YES

(continued)

Date of Issue: 01/28/2009 12:57:37  
 DEP Bureau Of Laboratories - Harrisburg  
 P.O. Box 1467  
 2575 Interstate Drive  
 Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
 Oil And Gas Mgmt

Sample ID: 4530 096 12/16/2008 Status: COMPLETED

Legal Seal: G020911 Intact: YES

Test/Codes CAS# - Description Approver Test Method	Reported Results	Date Approved
01105H ALUMINUM T DSOLENBERG EPA 200.8	224.000 UG/L	12/22/2008
00515 TDS @105 C LWILKINSON USGS I-1749	202. MG/L	12/30/2008
00927A MAGNESIUM T RWHEELER EPA 200.7	6.273 MG/L	12/22/2008
01055A MANGANESE T RWHEELER EPA 200.7	<10.00 UG/L	12/22/2008
01007A BARIUM T RWHEELER EPA 200.7	140.000 UG/L	12/22/2008
00916A CALCIUM T RWHEELER EPA 200.7	31.900 MG/L	12/23/2008
01045A IRON T RWHEELER EPA 200.7	284.000 UG/L	12/22/2008
00937A POTASSIUM T RWHEELER EPA 200.7	1.137 MG/L	12/22/2008
00929A SODIUM T RWHEELER EPA 200.7	12.900 MG/L	12/23/2008
00940A CHLORIDE CRADEK SM 4500-CL	20.8 MG/L	01/02/2009
** Comment ** Laboratory Blank out of Acceptance Range - Biased High		
Laboratory Blank out of Acceptance Range - Biased High		
00900 Hardness T RWHEELER SM 2340 B	106 MG/L	12/23/2008
00403 pH SHUTCHISON SM 4500H-B	7.0 pH units	12/29/2008
** Comment ** Time Limit For Test Exceeded		
00095 SPC @ 25.0 C SHUTCHISON SM 2510B	278.00 umhos/cm	12/22/2008
00410 ALKALINITY SHUTCHISON SM 2320B	79.6 MG/L	12/29/2008

(continued)

DEP Bureau of Laboratories

Date of Issue: 01/28/2009 12:57:37  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 3

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 096 12/16/2008 Status: COMPLETED

Test Codes/CAS# - Description Approver Test Method	Reported Results	Date Approved
-----		
** Comment **	Alkalinity Measured to Endpoint 4.5	
01082A STRONTIUM T RWHEELER EPA 200.7	135.000 UG/L	12/22/2008

(continued)

Date of Issue: 01/28/2009 12:57:37  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 096 12/16/2008 Status: COMPLETED

\*\*\*\*\*  
The results of the analyses provided in this laboratory report relate only  
to the sample(s) identified in the report.

Taru Upadhyay, Technical Director, Bureau of Laboratories

\*\*\*\*\*

End of Report



Date of Issue: 01/28/2009 11:54:18  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 1

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 107 01/12/2009 Status: COMPLETED

Name of Sample Collector: Michael O'Donnell  
Date Sample was Collected: 01/12/2009 02:15:00 PM

County: Susquehanna State: PA  
Municipality: Dimock Twp

---

TIM & DEBBIE MAYE  
RR 6 BOX 6147A  
CARTER ROAD  
MONTROSE PA 18801-

---

Sample Medium: Water  
Sample Medium Type: Ground Water

Location: NOT INDICATED  
Reason: Complaint

Sample taken at homeowner's kitchen sink. Water was run until pump  
kicked on and run for several minutes.

Appearance: Sample appears clear.

Laboratory Sample ID: O2009000120  
Suite: METH

COMPLETED

(continued)

Date of Issue: 01/28/2009 11:54:18  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 107 01/12/2009 Status: COMPLETED

Legal Seal: G039209 Intact: YES

Test/Codes CAS# - Description Approver Test Method	Reported Results	Date Approved
74828 Methane MMINNICK	7990 UG/L	01/15/2009
74851 Ethene MMINNICK	19.8 UG/L (U)	01/15/2009
74840 Ethane MMINNICK	86.6 UG/L	01/15/2009
74986 Propane MMINNICK	19.8 UG/L (U)	01/15/2009

(continued)

Date of Issue: 01/28/2009 11:54:18  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 107 01/12/2009 Status: COMPLETED

\*\*\*\*\*  
The results of the analyses provided in this laboratory report relate only  
to the sample(s) identified in the report.

Taru Upadhyay, Technical Director, Bureau of Laboratories

\*\*\*\*\*

End of Report

(continued)

ORGANICS LABORATORY QUALIFIERS  
-----

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.
- J - Indicates an estimated value, below the quantification limit, but above the method detection limit.
- N - Indicates presumptive evidence of a compound.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.
- Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.
- (Underline) - The compound is present at the amount reported. No flag.
- X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Date of Issue: 02/12/2009 13:07:17  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 1

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 133 01/29/2009 Status: COMPLETED

Name of Sample Collector: Michael O'Donnell  
Date Sample was Collected: 01/29/2009 10:05:00 AM

County: Susquehanna State: PA  
Municipality: Dimock Twp

---

TIM & DEBBIE MAYE  
RR 6 BOX 6147A  
MONTROSE PA 18801-

---

Sample Medium: Water  
Sample Medium Type: Ground Water

Location: NOT INDICATED  
Reason: Complaint

Sample taken at kitchen sink. Water was run for 5 minutes before  
sample was taken.

Appearance: Sample appears clear

Laboratory Sample ID: 02009000501  
Suite: METH

COMPLETED

(continued)

Date of Issue: 02/12/2009 13:07:17  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

PAGE 2

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 133 01/29/2009 Status: COMPLETED

Legal Seal: G039203 Intact: YES

Test/Codes CAS# - Description Approver Test Method	Reported Results	Date Approved
74828 Methane MMINNICK	14200 UG/L	02/06/2009
74851 Ethene MMINNICK	19.8 UG/L (U)	02/06/2009
74840 Ethane MMINNICK	476 UG/L	02/06/2009
74986 Propane MMINNICK	19.8 UG/L (U)	02/06/2009

(continued)

Date of Issue: 02/12/2009 13:07:17  
DEP Bureau Of Laboratories - Harrisburg  
P.O. Box 1467  
2575 Interstate Drive  
Harrisburg , PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR  
Oil And Gas Mgmt

Sample ID: 4530 133 01/29/2009 Status: COMPLETED

\*\*\*\*\*  
The results of the analyses provided in this laboratory report relate only  
to the sample(s) identified in the report.

Taru Upadhyay, Technical Director, Bureau of Laboratories

\*\*\*\*\*

End of Report

(continued)

ORGANICS LABORATORY QUALIFIERS

---

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.
- J - Indicates an estimated value, below the quantification limit, but above the method detection limit.
- N - Indicates presumptive evidence of a compound.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.
- Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.
- (Underline) - The compound is present at the amount reported. No flag.
- X - Non-target analytes co-elute with compound. Identification unable to be confirmed.



**Opredek, Anthony**

---

**From:** valdema5@aol.com  
**Sent:** Friday, January 30, 2009 1:55 PM  
**To:** Opredek, Anthony  
**Subject:** Fwd: 1/22/09 water sample results

-----Original Message-----

**From:** Wesley Smith <wesley.smith@cabotog.com>  
**To:** valdema5@aol.com  
**Sent:** Fri, 30 Jan 2009 12:54 pm  
**Subject:** 1/22/09 water sample results

See attached....

Wesley A. Smith  
Assistant Coal & Survey Coordinator  
Cabot Oil & Gas Corp. - East Region  
Telephone - 304-347-1637  
Fax - 304-347-1635  
email: [wesley.smith@cabotog.com](mailto:wesley.smith@cabotog.com)

Confidentiality Notice: This email message including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and privilege information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply email and destroy ALL copies of the message.

---

**A Good Credit Score is 700 or Above. See yours in just 2 easy steps!**

# QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.

January 27, 2009

Wes Smith  
Cabot Oil & Gas Corporation  
900 Lee Street E  
Suite 1500  
Charleston, WV 25301

Date Sampled: 22-Jan-09  
Time Sampled: 17:15  
Date Received: 23-Jan-09  
Time Received: 9:00  
Sampled by: VR/Quantum

Client Sample ID: Deborah Maye

PARAMETER	RESULT	UNITS	METHOD	ANALYZED	
TSS	< 2.0	mg/L	SM <sub>20</sub> 2540 D	25-Jan-09	
TDS	164	mg/L	SM <sub>20</sub> 2540 C	25-Jan-09	
Iron	< 0.100	mg/L	EPA 200.7	24-Jan-09	
Magnesium	6.22	mg/L	EPA 200.7	24-Jan-09	
Aluminum	0.139	mg/L	EPA 200.7	25-Jan-09	
Strontium	0.096	mg/L	EPA 200.7	24-Jan-09	
Manganese	< 0.025	mg/L	EPA 200.7	24-Jan-09	
Barium	0.100	mg/L	EPA 200.7	24-Jan-09	
Sulfide	< 1.0	mg/L	EPA 376.2	25-Jan-09	
Chloride	21.5	mg/L	ASTM D512-89(99)C	25-Jan-09	
MBAS	< 0.20	mg/L	SM <sub>20</sub> 5540 C	24-Jan-09	
Oil & Grease	< 5.0	mg/L	EPA 1664A	23-Jan-09	
Total Coliform	< 1	cfu/ 100ml	SM <sub>20</sub> 9221 B	23-Jan-09	Time: 8:00
Fecal Coliform	< 1	cfu/ 100ml	SM <sub>20</sub> 9221 B	23-Jan-09	Time: 8:00
Benzene	< 0.0005	mg/L	EPA 524.2	26-Jan-09	
Toluene	< 0.0005	mg/L	EPA 524.2	26-Jan-09	
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	26-Jan-09	
m,p-Xylenes	< 0.001	mg/L	EPA 524.2	26-Jan-09	
o-Xylene	< 0.0005	mg/L	EPA 524.2	26-Jan-09	
MTBE	< 0.0005	mg/L	EPA 524.2	26-Jan-09	
pH **	6.83	pH units	SM <sub>20</sub> 4500 H <sup>+</sup> B	22-Jan-09	
LEL *	< 1	%	*	22-Jan-09	

\* LEL analyzed on-site with Industrial Scientific M40; serial # 080813-419

\*\* pH analyzed on-site with Corning pH; serial # 19062

  
Joe R. Mussari, III  
Laboratory Director

DICKSON CITY INDUSTRIAL PARK  
824 ENTERPRISE STREET  
DICKSON CITY, PA 18519-1593  
PHONE: (570) 489-6964 FAX: (570) 489-6965



# QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.


January 27, 2009

Wes Smith  
Cabot Oil & Gas Corporation  
900 Lee Street E  
Suite 1500  
Charleston, WV 25301

Date Sampled: 22-Jan-09  
Time Sampled: 17:15  
Date Received: 23-Jan-09  
Time Received: 9:00  
Sampled by: VR/ Quantum

Client Sample ID: Deborah Maye

PARAMETER	RESULT	UNITS	METHOD	ANALYZED
Ethane	780.0	ug/L	AM20GAX	27-Jan-09
iso-Butane	0.830	ug/L	AM20GAX	27-Jan-09
Methane	19000.0	ug/L	AM20GAX	27-Jan-09
n-Butane	1.200	ug/L	AM20GAX	27-Jan-09
Propane	24.0	ug/L	AM20GAX	27-Jan-09

  
Joe R. Mussari, III  
Laboratory Director

DICKSON CITY INDUSTRIAL PARK  
824 ENTERPRISE STREET  
DICKSON CITY, PA 18519-1593  
PHONE: (570) 489-6964 FAX: (570) 489-6965

