CHAIN OF CUSTODY

QUANTUM

ANALYTICAL & ENVIRONMENTAL LABORATORIES, INC.
Dickson City Industrial Park
824 Enterprise Street
Dickson City, PA 18519-1593

Page 1 of 1
Phone: (570) 489-6964 Fax: (570) 489-6965

Report to: Cabot Oil & Gas Corporation
5 Penn Center West Suite 401
Pittsburgh, Pa 15276
Contact: John Smelko
Phone: Fax:
Bill to:

Special Requirements
PA DEP ASTM TCLP
RCRA UST FORM U
FORM 43
Other
pH Temp
TAT: RUSH NORMAL

DW - Drinking Water SL - Sludge
GW - Ground Water SO - Soil
SW - Surface Water HZ - Hazardous
WW - Waste Water Other

P - Plastic CG - Glass AG - Amber Glass O - Other PO #

PROJECT: ~~92256~~ 92456

Invoice # 12652

ANALYSIS TO BE PERFORMED

Location / Sample Description	Date Sampled	Time Sampled	Matrix	# of Cont / Size	PRSV / Cont Type	Grab / Composite	pH	ORP	TSS/TDS	NBAS	Chloride	Sulfide	VOCs	Dis. Al, As, Ba	Dis. B, Fe, Mg, Mn	Dis. Se, Tl, V	Methane, Ethane	Butane, Propane	Total Coliform	Customer ID
Rayias, Radwanski +	3-28-10	1530	DW	1L	P	G	X		X	X	X									039-032810
Loecy Well #1				500 ml	Zn Acetate P							X								040-
pressure tank				40 ml	AS, HC G								X							041-
in Basement				500 ml	P									X	X	X				042-
				40 ml	TP G												X	X		043-
				120 ml	Sod Thio P														X	044-

Comments: * Dissolved Metals to be Filtered in laboratory when necessary (>1 NTU)
** Field Analyses

Sampler: Ralph Policucho
Shipped / Hand Delivered

Intact Containers Y N
COC Complete Y N
Properly Preserved Y N
Within Holding Times Y N
Labels Match COC Y N
Rec'd on Ice Y N

Relinquished By: Barbara Rey Date: Time:
Received By: Ralph Policucho Date: 3-28-10 Time: 1530
Relinquished By: Date: Time:
Received By: Ralph Policucho Date: 3-28-10 Time: 1908

Client Name: Quantum Laboratories
Contact: Ralph Policichio
Address: 824 Enterprise Street
Dickson City, PA 18519-1593

Lab Proj #: P1003431
Report Date: 04/12/10
Client Proj Name: Dissolved Gases
Client Proj #: Dissolved Gases

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
043-032810	Water	P1003431-08	28 Mar. 10 15:30	31 Mar. 10 14:27

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.250	0.025	ug/L	AM20GAX	4/9/10	rw
N iso-Butane	<0.050	0.050	ug/L	AM20GAX	4/9/10	rw
N Methane	8100.000	0.100	ug/L	AM20GAX	4/9/10	rw
N n-Butane	<0.050	0.050	ug/L	AM20GAX	4/9/10	rw
N Propane	<0.050	0.050	ug/L	AM20GAX	4/9/10	rw

N - NELAC certified analysis

RESULTS SHEET

CLIENT: Rayias, Radwanski, Lorcy – PT

QUANTUM ID	PARAMETER	METHOD	DF	RESULT	PQL	UNITS	REMARKS	ANALYST	DATE
039-032810	pH			6.93					3/28
	ORP			-61.4					3/28
	MBAS			<0.080					
	TSS			9.2					4/6
	TDS			224					4/6
	Chloride			5.20					4/27
040 —	Sulfide			~~<1~~	(VW) 4mg/L				4/28
044 —	Total Coliform			<1			900		3/29
	Fecal Coliform			<1					3/29

Turbidity

Rayias, Radwanski, Locey - house

METALS BENCH SHEET

ANALYST: JM

QUANTUM ID # 042-032810 DIG. # UNITS: ug/L mg/L mg/Kg

Cabot Oil + Gas - Diss metals

Parameter	GFAA	ICP	Result	Date	Notes
Sr *			0.859	x5 resut 5x	4-17-10
Aluminum *		EPA 6010 B / EPA 200.7	<0.100		↓
Antimony		EPA 6010 B / EPA 200.7			
Arsenic *	SM_{19}3113 B	EPA 6010 B / EPA 200.7	0.016		5-4-10
Barium *		EPA 6010 B / EPA 200.7	0.530	0.549	4-17-10
Beryllium		EPA 6010 B / EPA 200.7			
Boron *		EPA 6010 B / EPA 200.7	0.073	0.075	4-17-10
Cadmium		EPA 6010 B / EPA 200.7			
Calcium		EPA 6010 B / EPA 200.7			
Chromium, Total		EPA 6010 B / EPA 200.7			
Copper		EPA 6010 B / EPA 200.7			
Iron *		EPA 6010 B / EPA 200.7	<0.050		4-17-10
Lead	SM_{19}3113 B	EPA 6010 B / EPA 200.7			
Magnesium *		EPA 6010 B / EPA 200.7	4.75		4-17-10
Manganese *		EPA 6010 B / EPA 200.7	0.938		4-17-10
Molybdenum		EPA 6010 B / EPA 200.7			
Nickel		EPA 6010 B / EPA 200.7			
Selenium	SM_{19}3113 B	EPA 6010 B / EPA 200.7			
Silver		EPA 6010 B / EPA 200.7			
Thallium *	SM_{19}3113 B	EPA 6010 B / EPA 200.7	<0.002		5-5-10
Tin		EPA 6010 B / EPA 200.7			
Titanium		EPA 6010 B / EPA 200.7			
[redacted] V *		EPA 6010 B / EPA 200.7	<0.010		4-17-10

Quantitation Report (Not Reviewed)

Data File : E:\VOC2010\APR2010\040110DW\0328-041.D Vial: 52
Acq On : 2 Apr 2010 12:57 am Operator: JRM
Sample : 041-032810 Inst : EPC VOC G
Misc : Multiplr: 1.00
MS Integration Params: EVENTS2.E
Quant Time: Apr 2 1:21 2010 Quant Results File: DW0301.RES

Quant Method : E:\VOC2010\DW0301.M (Chemstation Integrator)
Title : EPA 524.2 DRINKING WATER VOC
Last Update : Tue Mar 02 03:41:59 2010
Response via : Initial Calibration
DataAcq Meth : DW0301

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	10.64	96	1045401	1.00 ug/L	-0.05
System Monitoring Compounds					
43) 4-BROMOFLUOROBENZENE	16.03	95	302475	1.02 ug/L	-0.04
Spiked Amount 1.000	Range 80 - 120		Recovery = 102.00%		
59) 1,2-DICHLOROBENZENE-d4	17.99	152	255356	1.00 ug/L	-0.04
Spiked Amount 1.000	Range 80 - 120		Recovery = 100.00%		
60) 1,2-Dichlorobenzene-d4 **	17.99	150	420541	0.97 ug/L	-0.04
Spiked Amount 1.000	Range 80 - 120		Recovery = 97.00%		

Target Compounds					Qvalue
2) DICHLORODIFLUOROMETHANE	0.00	85	0	N.D.	
3) CHLOROMETHANE	0.00	50	0	N.D.	
4) VINYL CHLORIDE	0.00	62	0	N.D.	
5) BROMOMETHANE	0.00	94	0	N.D.	
6) CHLOROETHANE	0.00	64	0	N.D.	
7) TRICHLOROFLUOROMETHANE	0.00	101	0	N.D.	
8) 1,1- DICHLOROETHENE	0.00	96	0	N.D.	
9) 1,1- Dichloroethene *	0.00	61	0	N.D.	
10) METHYLENE CHLORIDE	7.77	49	1138612	2.95 ug/L	94
11) trans- 1,2-DICHLOROETHENE	0.00	61	0	N.D.	
12) methyl tert-butyl ether MT	0.00	73	0	N.D.	
13) 1,1-DICHLOROETHANE	0.00	63	0	N.D.	
14) cis-1,2-DICHLOROETHENE	0.00	61	0	N.D.	
15) 2,2-DICHLOROPROPANE	0.00	77	0	N.D.	
16) bromochloromethane*	0.00	130	0	N.D.	
17) CHLOROFORM	0.00	83	0	N.D.	
18) CARBON TETRACHLORIDE	0.00	117	0	N.D.	
19) 1,1,1-TRICHLOROETHANE	0.00	97	0	N.D.	
20) 1,1- DICHLOROPROPENE	0.00	75	0	N.D.	
21) BENZENE	0.00	78	0	N.D.	
22) 1,2-DICHOLOROETHANE	0.00	62	0	N.D.	
23) TRICHLOROETHENE	0.00	132	0	N.D.	
24) DIBROMOMETHANE	0.00	93	0	N.D.	
25) 1,2-DICHLOROPROPANE	0.00	63	0	N.D.	
26) BROMODICHLOROMETHANE	0.00	83	0	N.D.	
27) cis-1,3-DICHLOROPROPENE	0.00	75	0	N.D.	
28) TOLUENE	0.00	91	0	N.D.	
29) TETRACHLOROETHENE	0.00	166	0	N.D.	
30) trans-1,3-dichloropropene	0.00	75	0	N.D.	
31) 1,1,2-TRICHLOROETHANE	0.00	97	0	N.D.	
32) DIBROMOCHLOROMETHANE	0.00	129	0	N.D.	
33) 1,3-DICHLOROPROPANE	0.00	76	0	N.D.	
34) 1,2-DIBROMOETHANE	0.00	107	0	N.D.	
35) ETHYL BENZENE	0.00	91	0	N.D.	
36) CHLOROBENZENE	0.00	112	0	N.D.	
37) 1,1,1,2-TETRACHLOROETHANE	0.00	133	0	N.D.	
38) m,p- XYLENES	0.00	91	0	N.D.	
39) o-XYLENE	0.00	91	0	N.D.	
40) STYRENE	0.00	104	0	N.D.	
41) BROMOFORM	0.00	173	0	N.D.	

(#) = qualifier out of range (m) = manual integration