FIELD ID MW01

TURBIDITY Meter make/model HACH 2100P S/N 980800019124 Type: (turbidimeter) submersible spectrophotometer

Sample: (pump discharge line) flow-thru chamber single point at _____ ft blw LSD MSL MP Sensor ID _____

Sample: Collection Time: _____ Measurement Time: _____ Measurement: In-situ/On-site Vehicle Office lab NWQL Other _____

Sample diluted? Y N Vol. of dilution water _____ mL Sample volume _____ mL

Calibration Criteria: ± 0.5 TU or ± 5%	Lot Number or Date Prepared	Expiration Date	Concentration _____ (units)	Calibration Temperature °C	Initial instrument reading	Reading after adjustment
Stock Turbidity Standard						
Zero Standard (DIW)		5/12	<0.1		0.17	0.17
Standard 1		5/12	20		20.1	20.1
Standard 2		5/12	100		100	101
Standard 3		5/12	800		804	803

TURBIDITY VALUE = $A \times (B+C) / C$

where:
A = TURBIDITY VALUE IN DILUTED SAMPLE
B = VOLUME OF DILUTION WATER, mL
C = SAMPLE VOLUME, mL

Comments/Calculations:

Field Readings #1 _____ #2 _____ #3 _____ #4 _____ #5 _____

MEDIAN _____ **Parameter Code** _____ FNU NTU NTRU FNMU FNRU FAU FBU AU METHOD CODE _____ Remark ___ Qualifier ___

Water level was measured by USEPA. Water level was 201.35 ft/below MP
MP = 2.94' so WL below land surface is 201.35 − 2.94 = 198.41 ft/bls
Purge volumes were calculated by Dave Mueller using an EXCEL worksheet designed to use the purge calculation approved in the sampling & analysis plan.

$$V_B = \left(0.0408(H_{WC} - H_{SS})D^2_{WC} + (0.0408)(H_{SS})(D^2_{BH}) - \left[\left[(0.0408)(H_{SS})(D^2_{OS}) - (0.0408)(H_{SS})(D^2_{WC})\right]\right]\right) \times V_S$$

Depth to water (bls) = 198.41
Depth of well (bls) = 785

H_{WC} = 586.59
H_{SS} = 20
D_{WC} = 4.026
D_{BH} = 9.875
D_{OS} = 8.5
V_S = 0.55

V_B for 1 borehole volume = 429 gallons

3 borehole volumes = 1287 gallons

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Work continued to Page

SIGNATURE Peter R. Wright DATE 5/3/12

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE