

Mayflower Pipeline Incident Water Monitoring Results

Table 1: Water Quality Readings (YSI)

Location:	SW_BKG1	Sub Location:	first background sampling								
Date/Time: 4/1/2013 14:15											
Color:	Clear	Temp °C:	20.2	Conductivity (uS):	65.9	Turbidity (ntu):	10.1	Dissolved O ₂ (mg/L):	5.61	pH:	7
Location:	SW1	Sub Location:	on the north side of hwy								
Date/Time: 4/1/2013 12:30											
Color:	Brown	Temp °C:	15.4	Conductivity (uS):	63.2	Turbidity (ntu):	31	Dissolved O ₂ (mg/L):	8.76	pH:	7
Location:	SW2	Sub Location:	Surface Water 2								
Date/Time: 4/1/2013 10:25											
Color:	Clear	Temp °C:	13.6	Conductivity (uS):	63	Turbidity (ntu):	8.15	Dissolved O ₂ (mg/L):	8.96	pH:	6
Location:	SW3	Sub Location:	Surface Water 3								
Date/Time: 4/1/2013 09:45											
Color:	Clear	Temp °C:	13.8	Conductivity (uS):	65	Turbidity (ntu):	13.6	Dissolved O ₂ (mg/L):	7.51	pH:	6
Location:	SW4	Sub Location:	Surface Water 4								
Date/Time: 4/1/2013 12:45											
Color:	Brown	Temp °C:	14.3	Conductivity (uS):	58.1	Turbidity (ntu):	26.5	Dissolved O ₂ (mg/L):	4.55	pH:	7
Location:	SW5	Sub Location:	Surface Water 5								
Date/Time: 4/1/2013 13:20											
Color:	Clear/Brown	Temp °C:	17.1	Conductivity (uS):	69.3	Turbidity (ntu):	19.3	Dissolved O ₂ (mg/L):	9.13	pH:	6
Color:	Clear/Brown	Temp °C:	16.1	Conductivity (uS):	69.3	Turbidity (ntu):	19.3	Dissolved O ₂ (mg/L):	9.13	pH:	6

**Surface Water Sampling Detections and
DRO/ORO/GRO Results**

SampID: RRS41BKG1		Location: SW_BKG1	SampleType:	Background Sa	Matrix: Surface Water
Analyte	Method	Result (mg/L)			
Barium	EPA 6010	0.0292			
TPH-DRO (C10-C28)	EPA 8015B	U			
TPH-GRO	EPA 5030B/8015B	U			
TPH-ORO (C28-C35)	EPA 8015B	U			
SampID: RRS41SW1		Location: SW1	SampleType:	Field Sample	Matrix: Surface Water
Analyte	Method	Result (mg/L)			
Barium	EPA 6010	0.0191			
Benzene	EPA 5030B/8260	0.007			
Toluene	EPA 5030B/8260	0.0065			
TPH-DRO (C10-C28)	EPA 8015B	U			
TPH-GRO	EPA 5030B/8015B	U			
TPH-ORO (C28-C35)	EPA 8015B	U			
SampID: RRS41SW2		Location: SW2	SampleType:	Field Sample	Matrix: Surface Water
Analyte	Method	Result (mg/L)			
Barium	EPA 6010	0.0146			
TPH-DRO (C10-C28)	EPA 8015B	U			
TPH-GRO	EPA 5030B/8015B	U			
TPH-ORO (C28-C35)	EPA 8015B	U			
SampID: RRS41SW3		Location: SW3	SampleType:	Field Sample	Matrix: Surface Water
Analyte	Method	Result (mg/L)			
Barium	EPA 6010	0.0263			
TPH-DRO (C10-C28)	EPA 8015B	U			
TPH-GRO	EPA 5030B/8015B	U			
TPH-ORO (C28-C35)	EPA 8015B	U			
SampID: RRS41SW4		Location: SW4	SampleType:	Field Sample	Matrix: Surface Water
Analyte	Method	Result (mg/L)			
1,2,4-Trimethylbenzene	EPA 5030B/8260	0.004			
1,3,5-Trimethylbenzene	EPA 5030B/8260	0.0016			
Acetone	EPA 5030B/8260	0.0185			
Barium	EPA 6010	0.0415			
Benzene	EPA 5030B/8260	0.0792			
Ethylbenzene	EPA 5030B/8260	0.006			
Toluene	EPA 5030B/8260	0.0765			
TPH-DRO (C10-C28)	EPA 8015B	U			

**Surface Water Sampling Detections and
DRO/ORO/GRO Results**

SampID: RRS41SW4		Location: SW4	SampleType:	Field Sample	Matrix: Surface Water
Analyte		Method		Result (mg/L)	
TPH-GRO		EPA 5030B/8015B		0.61	
TPH-ORO (C28-C35)		EPA 8015B		U	
Xylene (Total)		EPA 5030B/8260		0.0335	
SampID: RRS41SW5		Location: SW5	SampleType:	Field Sample	Matrix: Surface Water
Analyte		Method		Result (mg/L)	
Barium		EPA 6010		0.017	
TPH-DRO (C10-C28)		EPA 8015B		U	
TPH-GRO		EPA 5030B/8015B		U	
TPH-ORO (C28-C35)		EPA 8015B		U	

U - Indicates the compound was analyzed for, but not detected.