



Table 4. History of Water Wells With TPH Detections

Data collected by the Sublette County Conservation District
August 1, 2008 through July 31, 2009

Appendix C
Of
Pinedale Anticline Ground Water Data Summary
October 15, 2009

Volume 5 of 5



Sublette County Conservation District - www.sublettecountycd.com

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
<u>AD213</u>										
9/11/2008	255AD213HC08	1	48	0	0.649					
<i>Notes related to lab data: 0 = ND 'Nondetect'. According to the lab, the cooler this sample was shipped in had no custody seal upon arrive to them.</i>										
10/15/2008	289AD213HC08	0.8	55	0	0.262	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
10/15/2008	289AD213HC08D	0.8	54	0	0.206	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
8/6/2009	218AD213DA09	0.5	71	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
<u>AD238</u>										
6/23/2009	174AD238DA09	1.1	72	4.1	15.7	18	0	0	120	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/22/2009	203AD238DA09	0.6	114	4.4	21.4	6.4	0	0	200	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
<u>AMI017</u>										
12/21/2004	356AMI017HS	6.4	27							
<i>Notes related to lab data:</i>										
10/11/2005	284AMI017HS	2.7	46							
<i>Notes related to lab data: TPH not taken.</i>										
8/21/2006	233AMI017CMH	4.4	111							
<i>Notes related to lab data: TPH not taken; 0 = ND (nondetect)</i>										
9/10/2007	253AMI017HC07	2.6	39							
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
9/10/2007	253AMI017HC07D	4.8	79							
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
10/16/2008	290AMI017HC08	4.1	76	2.6	0.173					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
12/2/2008	337AMI017HC08	3.6	58	0	0	0	0	0	0	15
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
8/5/2009	217AMI017DA09	1.9	12	0	0	0	0	0	0	18
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
<u>AMI033</u>										
8/27/2004	240AMI033CMH	2.1	12							
<i>Notes related to lab data:</i>										
9/27/2005	270AMI033HS	2	12							
<i>Notes related to lab data: 0=nondetect. TPH not taken.</i>										
Cleanup levels used by WYDEQ:				1.1 or 10 mg/L*	7.3 mg/L	5 ug/L	700 ug/L	10,000 ug/L	10,000 ug/L	1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

SCCD / Pinedale Anticline Ground Water Data Summary / Table 4. History of Water Wells With TPH Detections

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
9/13/2006	256AMI033CMH	2.2	11							
<i>Notes related to lab data: TPH not taken; 0 = ND (nondetect)</i>										
9/19/2007	262AMI033HC07	2.6	11							
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
10/6/2008	280AMI033DA08	2.3	14	1.7	0					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
11/6/2008	311AMI033HC08	2.4	11	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI079

8/25/2004	238AMI079CMH	0.6	9							
<i>Notes related to lab data:</i>										
6/6/2006	157AMI079CMH	0	11							
<i>Notes related to lab data: 0 = Nondetect (ND)</i>										
8/26/2008	239AMI079HC08	0.7	11	2.2	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
9/5/2008	249AMI079HC08				0					
<i>Notes related to lab data: 0 = ND 'Nondetect'. The rest of the sample set froze while being stored prior to shipping to the lab. Another complete sample set was collected for this well on 9-12-08.</i>										
9/12/2008	256AMI079HC08	0.6	11	2.6	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'. According to the lab, the cooler this sample was shipped in had no custody seal upon arrive to them.</i>										
5/20/2009	140AMI079DA09	0.7	11	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI132

12/9/2004	344AMI132HS	5.7	13							
<i>Notes related to lab data:</i>										
8/19/2005	231AMI132HC	5.4	13							
<i>Notes related to lab data: 0 = nondetect. TPH not taken.</i>										
9/13/2006	256AMI132CMH	6.3	17							
<i>Notes related to lab data: TPH not taken; 0 = ND (nondetect)</i>										
8/1/2007	213AMI132HC07	6.5	13							
<i>Notes related to lab data: 0 = ND (Nondetect)</i>										
7/2/2008	184 AMI132 HC08	6	10	8.8	0.346	0.76	1.8	8.9	4.4	100
<i>Notes related to lab data: 0 = ND 'Nondetect'. Naphthalene ran later (invoice date of July 28th, 2008).</i>										
7/2/2008	184 AMI132 HC08 D	6.1	11	4.3	0.247	0.58	1.3	6.5	3.2	68
<i>Notes related to lab data: 0 = ND 'Nondetect'. Naphthalene ran later (invoice date of July 28th, 2008).</i>										
7/23/2008	205AMI132TOP	5.8	103	210	143	7600	1600	17000	3300	34000
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

Cleanup levels used by WYDEQ:

1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
7/23/2008	205AMI132HC08	5.7	82	380	241	6400	2500	25000	4900	34000
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
9/26/2008	270AMI132DA08	5.4	5	3.1	0.228	0.56	1.5	16	3.7	46
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
10/23/2008	297AMI132HC08	5.8	5	3.7	0.266	0	1.8	21	4.7	59
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
5/21/2009	141AMI132DA09	5.3	5	0	0	0	0	0	0	9.7
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI140

11/1/2004	306AMI140HS	1.1	42							
<i>Notes related to lab data: Lab had sample ID listed as 306AMF140HS</i>										
10/7/2005	280AMI140HC	1	44							
<i>Notes related to lab data: 0 = nondetect. TPH not taken.</i>										
9/7/2006	250AMI140CMH	0.4	67							
<i>Notes related to lab data: Diesel Range Organics (DOR) = 670 mg/L - surrogate diluted out. Qualifier for Diesel Range Organics (DRO) and Non-polar Materials (SGT-HEM) - reporting limit increased due to sample matrix interference.</i>										
9/7/2006	250AMI140CMH			46	290	1200	16000	3000	4400	
<i>Notes related to lab data: Volatile Organic Compounds: Benzene = 290 ug/L, Ethylbenzene = 1200 ug/L, m+p-Xylenes = 16000 ug/L, o-Xylene = 3000, Toluene = 4400 surr: Trifluorotoluene=100 %REC Organic Characteristics: Gasoline Range Organics (GRO) = 46 mg/L surr:Trifluorotoluene = 118%REC. Qualifier D (reporting limit increased due to sample matrix interference) for each Volatile Organic Compound parameter and Organic Characteristic parameters.</i>										
9/18/2006	261AMI140CMH	3.2	21	8.42	21	240	2300	560	640	
<i>Notes related to lab data: 0 = ND (nondetect). VOLATILE ORGANIC COMPOUNDS: Benzene = 21 ug/L, Ethylbenzene = 240 ug/L, m+p-Xylenes = 2300 ug/L, o-Xylene = 560 ug/L, Toluene = 640 ug/L, Xylenes: Total = 2800 ug/L Surr: 1,2-Dichlorobenzene-d4 = 99.0 %REC Surr: Dibromofluoromethane = 101 %REC Surr: p-Bromofluorobenzene = 98.0 %REC Surr: Toluene-d8 = 100 %REC. ORGANIC CHARACTERISTICS: Diesel Range Organics (DRO) = 25 mg/L (surrogate diluted out), Gasoline Range Organics (GRO) = 8.42 mg/L Surr: Trifluorotoluene = 100 %REC. Qualifier D (Reporting limit increased due to sample matrix interference) on all Volatile Organic Compound parameters, Gasoline Range Organics (GRO), and Surr: Trifluorotoluene.</i>										
8/28/2007	240AMI140HC07	1.2	64	0.149	1.2	2.1	22	4.2	3.5	
<i>Notes related to lab data: 0 = ND (Nondetect)</i>										
9/3/2008	247AMI140HC08	0.9	40	0	0					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI146

11/2/2004	307AMI146HS	11.3	40							
<i>Notes related to lab data:</i>										
10/4/2005	277AMI146HC	12.1	38							
<i>Notes related to lab data: 0 = nondetect. TPH not taken.</i>										

Cleanup levels used by WYDEQ:

1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

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8/27/2007	239AM1146HC07	13.7	40							
<i>Notes related to lab data:</i>										
9/19/2008	263AM1146HC08	11.4	38	0	0.206					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
10/20/2008	294AM1146HC08	11	35	0	0.212					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
10/27/2008	301AM1146HC08	11.6	36	0	0.245	7.5	0	0	0	1.2
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
11/20/2008	325AM1146HC08			0	0.16	5.3	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
8/5/2009	217AM1146DA09	11.4	36	0	0.19	7.8	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI149

5/17/2005	137AM1149HS	5.5	16							
<i>Notes related to lab data: 0 = Non Detect</i>										
7/18/2006	199AM1149CMH	7.4	59							
<i>Notes related to lab data: 0 = ND (nondetect) TPH not taken</i>										
10/9/2007	282AM1149HC07	5.2	12		0.101	4.8	0	0	0	27
<i>Notes related to lab data: 0 = ND 'Nondetect'. Diesel Range Organics (DRO)=ND mg/L. Surr: o-Terphenyl=85.0%REC. See attached spectrometer graph, attached to filed lab data.</i>										
11/5/2007	309AM1149HC07	4.9	13		0.051	5.2	0	0	0	13
<i>Notes related to lab data: 0 = ND 'Nondetect'. Diesel Range Organics (DRO)=ND mg/L Surr: o-Terphenyl 76.0%REC. Spectrograph attached to data.</i>										
11/5/2007	309AM1149HC07130	4.9	13		0.052	4.8	0	0	0	13
<i>Notes related to lab data: 0 = ND 'Nondetect'. Diesel Range Organics (DRO)=ND mg/L Surr: o-Terphenyl= 77.0%REC. Spectrograph attached to data.</i>										
9/23/2008	267AM1149HC08	7.1	46	0	0					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI151

12/7/2004	342AM1151HS	6.9	33							
<i>Notes related to lab data:</i>										
12/7/2004	342AM1151D	6.9	33							
<i>Notes related to lab data:</i>										
8/30/2005	242AM1151HC	6	43							
<i>Notes related to lab data: 0 = nondetect. TPH not taken.</i>										
9/14/2006	247AM1151CMH	9.4	43							
<i>Notes related to lab data: TPH not taken.</i>										

Cleanup levels used by WYDEQ:

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7/19/2007	200AMI151HC07	8.4	42							
<i>Notes related to lab data: 0 = ND (nondetect)</i>										
8/7/2008	220AMI151HC08	7.1	33	1	0					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
9/5/2008	249AMI151HC08			0		0	0	0	0	1.8
<i>Notes related to lab data: 0 = ND 'Nondetect'. Lab comments: "2 Vials [GRO] for 249 AMI 151 HC08 were received broken." A trip blank (C08090347-004) was also sent with this sample to be tested for volatile organic compounds, all came back ND.</i>										
9/5/2008	249AMI1512:30			0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'. Lab comments: 1 vial [GRO] for 249 AMI 151 2:30 were received broken." A trip blank (C08090347-004) was also sent with this sample to be tested for volatile organic compounds, all came back ND.</i>										

AMI160

11/4/2004	309AMI160HS	1.9	9							
<i>Notes related to lab data:</i>										
9/5/2006	248AMI160CMH	1.6	4							
<i>Notes related to lab data: TPH not taken</i>										
5/17/2007	137AMI288HC	2.2	6							
<i>Notes related to lab data: pH=9.47 s.u., 0=ND (nondetect)</i>										
6/4/2008	156 AMI160HC08	2.4	5	0	0.165					
<i>Notes related to lab data: 0 = ND 'Nondetect'. The lab's analytical report for the temperature blank that was sent with this sample read "ND" - 0.0 was entered.</i>										
7/1/2008	183AMI160HC08	2.1	4	0	0.208	1.3	4.6	57	10	0.98
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/1/2008	183AMI160HC08	2.1	4	0	0.208	1.3	4.6	57	10	0.98
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
5/20/2009	140AMI160DA09	2.6	8	0	0	0	0	0	0	2.3
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI162

6/13/2005	164AMI162HC	8.8	39							
<i>Notes related to lab data: 0 = Nondetect</i>										
6/13/2005	164-D-HC	9	31							
<i>Notes related to lab data: 0 = Nondetect</i>										
5/9/2006	129AMI162CMH	1	33							
<i>Notes related to lab data: 0 = Nondetect (ND)</i>										
4/23/2007	113AMI162HC	11.7	32							
<i>Notes related to lab data: 0 = ND (nondetect)</i>										
6/26/2008	178AMI162HC08	9.6	32	0	0					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

Cleanup levels used by WYDEQ: 1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

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6/26/2008	178AM1162HC08D	9.6	32	1.4	0					
		<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>								
7/23/2008	205AM1162HC08	10	32	0	0	0	0	0	0	0
		<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>								

AM1182

12/15/2004	350AM1182HS	13.6	43							
		<i>Notes related to lab data:</i>								
9/27/2005	270AM1182HC	12.7	42							
		<i>Notes related to lab data: TPH not taken. 0=nondetect.</i>								
12/12/2008	347AM1182DA08	12.8	41	0	0.189					
		<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>								
12/12/2008	347AM1182DA08D	12.8	41	0	0.165					
		<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>								
1/20/2009	020AM1182DA09	12.6	34	0	0.192	6.9	0	0	0	0
		<i>Notes related to lab data: 0 = ND 'Nondetect'. Samples for dissolved metals/hardness were subsampled, filtered and preserved with 2 mL HNO3 in lab upon receipt to pH<2</i>								

AM1186

6/14/2005	165AM1186HC	8.9	231							
		<i>Notes related to lab data: 0 = Nondetect</i>								
6/2/2006	153AM1186CMH	4.6	235							
		<i>Notes related to lab data: 0 = Nondetect (ND). TPH not taken</i>								
9/29/2006	272AM1186CMH	9.6	242		0.358	3.4	3.8	54	12	27
		<i>Notes related to lab data: 0 = ND (nondetect); VOLATILE ORGANIC COMPOUNDS: Benzene = 3.4 ug/L, Ethylbenzene = 3.8 ug/L, m+p-Xylenes = 54 ug/L, o-Xylene = 12 ug/L, Toluene = 27 ug/L Surr: Trifluorotoluene = 84 %REC. ORGANIC CHARACTERISTICS: Diesel Range Organics (DRO) = 38 mg/L - surrogate diluted out, Gasoline Range Organics (GRO) = .358 mg/L Surr: Trifluorotoluene = 85 %REC</i>								
10/4/2006	277AM1186CMH	9.6	228		0	0	0	3.6	0.75	2.4
		<i>Notes related to lab data: 0 = ND (nondetect). VOLATILE ORGANIC COMPOUNDS: Benzene = ND ug/L; Ethylbenzene = ND ug/L; m+p-Xylenes = 3.6 ug/L; o-Xylene = .75 ug/L; Toluene = 2.4 ug/L Surr: Trifluorotoluene = 94.0 %REC. ORGANIC CHARACTERISTICS: Diesel Range Organics (DRO) = ND mg/L Surr: o-Terphenyl = 78.0 %REC; Gasoline Range Organics (GRO) = ND mg/L Surr: Trifluorotoluene = 98.0 %REC</i>								
8/29/2007	241AM1186HC07	11.5	258		0	0	0	0	0	0.91
		<i>Notes related to lab data: 0 = ND (Nondetect)</i>								
8/28/2008	241AM1186HC08	9.8	253	0	0					
		<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>								
7/29/2009	210AM1186DA09	10	249	0	0	0	0	0	0	0
		<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>								

AM1187

Cleanup levels used by WYDEQ:	1.1 or 10 mg/L*	7.3 mg/L	5 ug/L	700 ug/L	10,000 ug/L	10,000 ug/L	1,000 ug/L
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*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

SCCD / Pinedale Anticline Ground Water Data Summary / Table 4. History of Water Wells With TPH Detections

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
6/5/2006	156AMI268	3.7	34							
<i>Notes related to lab data: 0 = Nondetect, Sample ID written as AMI268 at time of sample. AMI268 was a duplicate entry with AMI187.</i>										
5/10/2007	130AMI187HC	11.5	38		0	2.9	0	0	0	0
<i>Notes related to lab data: 0=Nondetect (ND). pH=9.88s.u. VOLATILE ORGANIC COMPOUNDS: Benzene=2.9ug/L, Ethylbenzene=ND, m+p-Xylene=NDug/L, o-Xylene=ND, Toluene=NDug/L - Surr: Trifluorotoluene=87%REC. ORGANIC CHARACTERISTICS: Gasoline Range Organics (GRO)=ND mg/L, Surr: Trifluorotoluene=89.0% REC</i>										
6/8/2007	159AMI187HC07	11.2	36		0.078	25	0	0	0	1.3
<i>Notes related to lab data: 0=ND (Nondetect).pH=9.86 s.u. VOLATILE ORGANIC COMPOUNDS: Benzene=25 ug/L, Ethylbenzene=ND ug/L, m+p-Xylenes=ND ug/L, o-Xylene=ND ug/L, Toluene=1.3 ug/L Surr: Trifluorotoluene=92.0% REC. ORGANIC CHARACTERISTICS: Gasoline Range Organics (GRO)=.078 mg/L Surr: Trifluorotoluene=88.0% REC.</i>										
12/15/2008	350AMI187DA08DTOP	11	35		0.118	5.5	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'. DRO results: 11.7 % -result determined by volume. The hydrocarbon profile resembles a heavily weathered crude oil.</i>										
12/15/2008	350AMI187DA08	11	35	78	0.137	6.6	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI192

5/26/2005	146AMI192HC	9.2	39							
<i>Notes related to lab data: 0 = ND (non detect)</i>										
7/18/2006	199AMI192CMH	7.3	32							
<i>Notes related to lab data: 0 = ND (nondetect) TPH not taken</i>										
9/16/2008	260AMI192HC08	7.5	26	0	0	0	0	0	0	6.2
<i>Notes related to lab data: 0 = ND 'Nondetect'. Lab comments: "Samples for dissolved metals were subsampled, filtered and preserved with 2 mL HN03 in lab upon receipt to pH<2."</i>										
1/16/2009	016AMI192DA09	7.6	21	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
1/16/2009	016AMI192DA09D	7.6	21	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
5/19/2009	139AMI192DA09	7.6	27	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI198

5/25/2005	145AMI198HC	6.9	66							
<i>Notes related to lab data: 0=NonDetect</i>										
7/19/2006	200AMI198CMH	6	107							
<i>Notes related to lab data: 0 = ND (nondetect). TPH not taken.</i>										
5/10/2007	130AMI198HC	6.9	68							
<i>Notes related to lab data: pH=9.58 s.u., 0=ND (nondetect)</i>										

Cleanup levels used by WYDEQ:

1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

SCCD / Pinedale Anticline Ground Water Data Summary / Table 4. History of Water Wells With TPH Detections

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
6/13/2008	165 AMI198 HC08	6	326	0	0.056					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/17/2008	199 AMI198 HC08	6.6	41	0	0	1	0	0.94	0	1
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/7/2009	188 AMI198 DA09	7.1	187	0	0	5.5	0	4.7	0	3
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI199

7/21/2005	202 AMI199 HC	1.3	13							
<i>Notes related to lab data: 0 = nondetect</i>										
9/30/2006	273 AMI199 CMH	1.1	15							
<i>Notes related to lab data: TPH not taken; 0 = ND (nondetect)</i>										
7/19/2007	200 AMI199 HC07	0.9	17		0	0	0	0.89	0	0
<i>Notes related to lab data: 0 = ND (nondetect)</i>										
8/6/2007	218 AMI199 HC07	1.1	16		0	0	0	0	0	0.79
<i>Notes related to lab data: 0 = ND (Nondetect)</i>										
8/26/2008	239 AMI199 HC08	1.4	4	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
5/20/2009	140 AMI199 DA09	1.2	13	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
5/20/2009	140 AMI199 DA09D	1.2	13	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI209

7/6/2005	187 AMI209 HC	4.5	27							
<i>Notes related to lab data: 0 = nondetect</i>										
7/17/2006	198 AMI209 CMH	4.1	22							
<i>Notes related to lab data: 0 = ND (nondetect) TPH not taken</i>										
5/22/2007	142 AMI209 HC07	2.6	19							
<i>Notes related to lab data: 0 = ND (nondetect)</i>										
6/5/2008	157 AMI209 HC08	2.7	18	2	0.169					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/1/2008	183 AMI209 HC08	1.7	16	0	0.311	0	0	2.2	0.52	85
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/1/2008	183 AMI209 HC08	1.7	16	0	0.311	0	0	2.2	0.52	85
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/7/2009	188 AMI209 DA09	1.8	15	1.3	0	0	0	1.5	0	1.8
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

Cleanup levels used by WYDEQ:

1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
<u>AMI210</u>										
7/6/2005	187AMI210HC	9.2	104							
<i>Notes related to lab data: 0 = nondetect</i>										
7/17/2006	198AMI210CMH	7.7	97							
<i>Notes related to lab data: 0 = ND (nondetect) TPH not taken</i>										
5/11/2007	131AMI210HC	8.4	98							
<i>Notes related to lab data: pH=9.8 s.u., 0=ND (nondetect)</i>										
5/29/2008	150 AMI210 HC08	8.2	96	0	0.055					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
8/20/2008	232AMI210HC08	8.3	98	0	0.102					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
<u>AMI213</u>										
12/30/2004	365AMI213HS	11.6	105							
<i>Notes related to lab data:</i>										
9/20/2005	263AMI213HC	12.1	118							
<i>Notes related to lab data: TPH not taken. 0=nondetect.</i>										
9/20/2005	263AMIDHC	11.7	109							
<i>Notes related to lab data: TPH not taken. 0=nondetect.</i>										
8/17/2006	228AMI213CMH	9	106							
<i>Notes related to lab data: TPH not taken; 0 = ND (nondetect)</i>										
9/12/2007	255AMI213HC07	13.3	108							
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
10/7/2008	281AMI213DA08	11.4	111	0	0.083					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
11/20/2008	325AMI213HC08	12.3	118	0	0	0	0	0	0	20
<i>Notes related to lab data: 0 = ND 'Nondetect'. 2 mLs of H2SO4 was added to one glass bottle for sample 325AMI213HC08 by lab.</i>										
<u>AMI228</u>										
6/13/2005	164AMI228HC	1.8	13							
<i>Notes related to lab data: 0 = Nondetect</i>										
5/9/2006	129AMI228CMH	0.2	14							
<i>Notes related to lab data: 0 = Nondetect. TPH not taken</i>										
4/23/2007	113AMI228HC	2.2	18							
<i>Notes related to lab data: 0 = ND (nondetect)</i>										
6/26/2008	178AMI228HC08	1.6	15	0	0					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

Cleanup levels used by WYDEQ:

1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
6/29/2009	180AMI228DA09	2.4	14	2.9	0					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
AMI233										
7/5/2005	186AMI233HC	7.5	37							
<i>Notes related to lab data: 0 = nondetect</i>										
7/11/2006	192AMI233CMH	7.2	39							
<i>Notes related to lab data: 0 = ND (nondetect) TPH not taken</i>										
5/8/2007	128AMI233HC	8.3	36							
<i>Notes related to lab data: 0=Nondetect (ND)</i>										
6/13/2008	165 AMI 233 HC08	6.6	32	0	0.347					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/17/2008	199AMI233HC08	6.9	33	0	0.28	0	0	0	0	2.3
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/1/2009	182AMI233DA09	6.8	34	0	0.246	0	0	0	0	2
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
AMI235										
5/25/2005	145AMI235HC	5.7	31							
<i>Notes related to lab data: 0=NonDetect</i>										
8/23/2006	235AMI235CMH	0.5	26							
<i>Notes related to lab data: - The ion balance was affected by the presence of clay particles less than one micromole. An additional Solids, Total Dissolved TDS @ 180 C read 2570 mg/L with analysis performed past recommended holding time. The Qualifier D (-Reporting Limit increased due to sample matrix interference) was on Sodium, Sulfate and Sodium SAR.</i>										
10/13/2006	286AMI235CMH	0.4	27		0	0	0	0	0	1.7
<i>Notes related to lab data: 0 = ND (nondetect). VOLATILE ORGANIC COMPOUNDS: Benzene ND ug/L; Ethylbenzene ND ug/L; m+p-Xylenes ND ug/L; o-Xylene ND ug/L; Toluene 1.7 ug/L Surr: Trifluorotoluene 80.0 %REC. ORGANIC CHARACTERISTICS: Diesel Range Organics (DRO) ND mg/L, Surr: o-Terphenyl 102 %REC; Gasoline Range Organics (GRO) ND mg/L, Surr: Trifluorotoluene 84.0 %REC.</i>										
10/13/2006	286ADMI001CMH	0.4	26		0	0	0	0	0	1.8
<i>Notes related to lab data: 0 = ND (nondetect). pH 8.32 s.u. VOLATILE ORGANIC COMPOUNDS: Benzene ND ug/L; Ethylbenzene ND ug/L; m+p-Xylenes ND ug/L; o-Xylene ND ug/L; Toluene 1.8 ug/L Surr: Trifluorotoluene 87.0 %REC. ORGANIC CHARACTERISTICS: Diesel Range Organics (DRO) ND mg/L, Surr:o-Terphenyl 97.0 %REC; Gasoline Range Organics (GRO) ND mg/L, Surr:Trifluorotoluene 93.0 %REC.</i>										
10/30/2006	303AMI235CMH	0.3	26		0	0	0	0	0	1
<i>Notes related to lab data: VOLATILE ORGANIC COMPOUNDS: Benzene ND ug/L; Ethylbenzene ND ug/L; m+p-Xylenes ND ug/L; o-Xylene ND ug/L; Toluene 1.0 ug/L; Xylenes: Total ND, Surr: 1,2-Dechlorobenzene-d4 100%REC, Surr: Dibromofluoromethane 100%REC; Surr: p-Bromofluorobenzene 102%REC; Surr: Toluene-d8 101 %REC. ORGANIC CHARACTERISTICS: Diesel Range Organics (DRO) ND mg/L; Surr: o-Terphenyl 86.0%REC; Gasoline Range Organics (GRO) ND mg/L, Surr: Trifluorotoluene 87.0%REC; Non-polar Materials (SGT-HEM) NDmg/L.</i>										
Cleanup levels used by WYDEQ:										
				1.1 or 10 mg/L*	7.3 mg/L	5 ug/L	700 ug/L	10,000 ug/L	10,000 ug/L	1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
7/10/2007	191AMI235IR07	0.5	27		0	0	0	0	0	0
<i>Notes related to lab data: 0=ND Nondetect</i>										
7/10/2007	191AMI235IR07D	0.5	26		0	0	0	0	0	0
<i>Notes related to lab data: 0=ND Nondetect</i>										
8/28/2008	241AMI235HC08	0.4	25	0	0					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
5/19/2009	139AMI235DA09	0.4	22	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI237

7/12/2006	193AMI237CMH	4.3	10							
<i>Notes related to lab data: 0 = ND (nondetect). TPH not taken.</i>										
6/1/2007	152AMI237HC07	4.4	9		0.696	85	2.4	18	2.5	95
<i>Notes related to lab data: 0=ND (Nondetect). VOLATILE ORGANIC COMPOUNDS: Benzene=85 ug/L, Ethylbenzene=2.4 ug/L, m+p-Xylenes=18 ug/L, o-Xylene=2.5 ug/L, Toluene=95 ug/L Surr: Trifluorotoluene=94.0% REC. ORGANIC CHARACTERISTICS: Gasoline Range Organics (GRO)=0.696 mg/L Surr: Trifluorotoluene=90% REC.</i>										
6/25/2007	176AMI237HC07	5	10		0.648	77	2.4	18	2.4	92
<i>Notes related to lab data: 0=ND</i>										
7/24/2007	205AMI237HC07	6.9	44		0.265	34	1	7.5	1.1	37
<i>Notes related to lab data: 0=ND Nondetect</i>										
5/29/2008	150 AMI237 HC08	4.4	8	0	0.761					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/29/2009	210AMI237DA09	4.6	8	0	0.665	84	4	31	4	150
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI252

7/11/2006	192AMI252CMH	4.9	14							
<i>Notes related to lab data: 0 = ND (nondetect); Diesel Range Organics (DRO) = 49 mg/L - surrogate diluted out</i>										
7/21/2006	202AMI252CMH	4.8	11							
<i>Notes related to lab data: 0 = ND (nondetect); TPH not taken; Diesel Range Organics (DRO) = 0 mg/L, Surr: o-Terphenyl = 84.0 %REC</i>										
7/21/2006	202ADD001CMH	4.7	12							
<i>Notes related to lab data: 0 = Nondetect</i>										
7/25/2006	206AMI252CMH	4.6	10		0					
<i>Notes related to lab data: 0 = ND (nondetect); TPH not taken; Diesel Range Organics (DRO) = 0 mg/L, Surr: o-Terphenyl = 97.0 %REC; Gasoline Range Organics (GRO) = 0 mg/L, Surr: Trifluorotoluene = 100 %REC</i>										
7/27/2007	208AMI252TOPHC07	6.3	18		0.206	0.81	0	0.71	0	55
<i>Notes related to lab data: 0=ND Nondetect. Diesel Range Organics (DRO): 1.7 mg/L, surr: o-Terphenyl 94% REC.</i>										

Cleanup levels used by WYDEQ:

1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
7/27/2007	208AMI252HC07	6.3	17		0.104	0	0	0	0	27
<i>Notes related to lab data: 0=ND Nondetect. Diesel Range Organics (DRO): 1.1 mg/L, Surr: o-Terphenyl 91.0% REC.</i>										
8/17/2007	289AMI252HC07	6.4	17		0.188	0	0	1	0	44
<i>Notes related to lab data: 0 = ND (Nondetect). Diesel Range Organics (DRO): ND mg/L, Surr: o-Terphenyl: 79.0% REC. Spectrometer reading from lab filed with lab data.</i>										

AMI255

7/24/2006	205AMI255CMH	1.4	9							
<i>Notes related to lab data: 0 = Nondetect</i>										
7/12/2007	193AMI255HC07	0.2	20							
<i>Notes related to lab data:</i>										
8/28/2008	241AMI255HC08	0.2	22	4.9	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
9/12/2008	256AMI255HC08	0.2	20	3	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'. According to the lab, the cooler this sample was shipped in had no custody seal upon arrive to them.</i>										
5/21/2009	141AMI255DA09	0.2	26	3.2	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

AMI258

6/2/2006	153AMI258	3.1	219							
<i>Notes related to lab data: 0 = Nondetect (ND)</i>										
9/27/2006	270AMI258CMH	8.1	131		0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND (nondetect). VOLATILE ORGANIC COMPOUNDS: Benzene = ND ug/L, Ethylbenzene = ND ug/L, m+p-Xylenes = ND ug/L, o-Xylene = ND ug/L, Toluene = ND ug/L Surr: Trifluorotoluene = 94.0 %REC, Gasoline Range Organics (GRO) = ND mg/L Surr: Trifluorotoluene = 93%REC. ORGANIC CHARACTERISTICS: Diesel Range Organics (DRO) = ND mg/L Surr: o-Terphenyl = 105 %REC.</i>										
8/29/2007	241AMI258HC07	8.7	138							
<i>Notes related to lab data: 0 = ND (Nondetect)</i>										
9/5/2008	249AMI258HC08	9.3	92	24	0.906	0.9	16	110	44	50
<i>Notes related to lab data: 0 = ND 'Nondetect'. Lab notes: "1 DRO bottle received broken; still have sufficient volume for analysis. Samples for dissolved metals were subsampled, filtered and preserved with 2 mL of HN03 in lab upon receipt to pH <2."</i>										
10/17/2008	291AMI258HC08	7.1	120	0	0.15					
<i>Notes related to lab data: 0 = ND 'Nondetect'. SAMPLES FOR DISOLVED METALS/HARDNESS WERE SUBSAMPLED, FILTERED AND PRESERVED WITH 2 mL HN03 IN LAB UPON RECEIPT TO Ph</i>										

AMI261

7/13/2006	194AMI261CMH	3.1	3							
<i>Notes related to lab data: 0 = ND (nondetect)</i>										

Cleanup levels used by WYDEQ:

1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

SCCD / Pinedale Anticline Ground Water Data Summary / Table 4. History of Water Wells With TPH Detections

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
5/7/2007	127AMI261HC	3.9	2		0	0.51	0	0	0	0
Notes related to lab data: 0=Nondetect. pH=9.42 s.u. VOLATILE ORGANIC COMPOUNDS: Benzene=.51 ug/L, Ethylbenzene=ND, m+p-Xylenes=ND, o-Xylene=ND, Toluene=ND - Surr: Trifluorotoluene=99.0%REC. ORGANIC CHARACTERISTICS: Gasoline Range Organics (GRO)=ND - Surr: Trifluorotoluene=93.0 %REC										
6/8/2007	159AMI261HC07	3.1	2		0	0	0	0	0	0
Notes related to lab data: 0=ND (Nondetect). pH=9.36 s.u. VOLATILE ORGANIC COMPOUNDS: Benzene=ND ug/L, Ethylbenzene=ND ug/L, m+p-Xylenes=ND ug/L, o-Xylenes=ND ug/L, Toluene=ND ug/L Surr: Trifluorotoluene=96.0% REC. ORGANIC CHARACTERISTICS: Gasoline Range Organics (GRO)= ND mg/L Surr: Trifluorotoluene=90.0% REC.										
5/5/2008	125 AMI261 HC08	3.1	2	0	0					
Notes related to lab data: 0 = ND 'Nondetect'.										
5/20/2009	140AMI261DA09	3	2	0	0	0	0	0	0	0
Notes related to lab data: 0 = ND 'Nondetect'.										
AMI265										
9/29/2006	272AMI265CMH	7.3	83							
Notes related to lab data: 0 = ND (nondetect)										
7/9/2007	190AMI265IR07	1.6	8							
Notes related to lab data: 0=ND Nondetect										
1/16/2009	016AMI265DA09	2.2	14	0	0					
Notes related to lab data: 0 = ND 'Nondetect'.										
7/8/2009	189AMI265DA09	1.8	11	1	0					
Notes related to lab data: 0 = ND 'Nondetect'.										
AMI270										
11/9/2006	3132 Buttes 1615 CMH	0.5	11		0	0	0	0	0	1.6
Notes related to lab data: 0 = Nondetect; VOLATILE ORGANIC COMPOUNDS: Benzene NDug/L; Ethylbenzene NDug/L; m+p-Xylenes NDug/L; o-Xylene NDug/L; Toluene 1.6ug/L; Surr: Trifluorotoluene 100%REC. ORGANIC CHARACTERISTICS: Diesel Range Organics (DRO) NDmg/L; Surr: o-Terphenyl 102%REC; Gasoline Range Organics (GRO) NDmg/L; Surr: Trifluorotoluene 103%REC.										
10/17/2007	290AMI270HC07	0.5	7							
Notes related to lab data: 0 = ND 'Nondetect'.										
8/14/2008	227AMI270DA08	0.4	6	0	0					
Notes related to lab data: 0 = ND 'Nondetect'.										
AMI279										
5/18/2007	138AMI279HC	7.6	120							
Notes related to lab data: pH=9.62 s.u., 0=ND (nondetect)										
5/28/2008	149 AMI279 HC08	7.9	121	0	0					
Notes related to lab data: 0 = ND 'Nondetect'.										
7/20/2009	201AMI279DA09	8.1	125	2.1	0	0	0	0	0	0
Notes related to lab data: 0 = ND 'Nondetect'.										

Cleanup levels used by WYDEQ: 1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

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Sample Collection Date	Sample ID	Fluoride (mg/L)	Chloride (mg/L)	Diesel Range Organics (mg/L)	Gasoline Range Organics (mg/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	m+p-Xylenes (ug/L)	o-Xylene (ug/L)	Toluene (ug/L)
<u>AMI285</u>										
5/18/2007	138AMI285HC	9.3	129							
<i>Notes related to lab data: pH=9.33 s.u., 0=ND (nondetect)</i>										
5/28/2008	149 AMI285 HC08	9.4	121	0	0.045					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/29/2009	210AMI285DA09	10.4	167	0	0	0	0	0	0	0
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

<u>AMI301</u>										
7/20/2009	201AMI301DA09	10.4	199	1.1	0.175					
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

<u>AS014</u>										
6/29/2007	180AS014IR07	0.9	13							
<i>Notes related to lab data: 0 = ND (nondetect)</i>										
7/1/2008	183AS014HC08	0.7	12	0	0	0	0	0	0	13
<i>Notes related to lab data: 0 = ND 'Nondetect'. New invoice number 280830119 sent to exclude BTEX as it was not requested.</i>										
7/31/2008	213AS014HC08	0.8	12	0	0	0	0	0	0	0.79
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										
7/31/2008	213AS014HC08D	0.8	12	0	0	0	0	0	0	0.84
<i>Notes related to lab data: 0 = ND 'Nondetect'.</i>										

Cleanup levels used by WYDEQ: 1.1 or 10 mg/L* 7.3 mg/L 5 ug/L 700 ug/L 10,000 ug/L 10,000 ug/L 1,000 ug/L

*The clean up level for DRO can be 1.1 mg/L or 10 mg/L depending on the results of parameters currently not tested for by SCCD.

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