

PADEP Frac and Flowback Water Analytical Data - Glycols

Count	28		27		26		25		24		23		23		21		20		19		18		17	
Lab. Sample ID	O2009008660		O2009008660		O2009008658		O2009008260		O2009007735		O2009007382		O2009007175		O2009006651		O2009006652		O2009006603		O2009006148		O02009005800	
Collector No.	9516102		9516102		9522001		9522001		9522001		9522002		9522002		9522101		9522102		9522001		9522001		9522001	
Operator	Cabot		Cabot		Anadarko		East		East		East		XTO		Cabot		Cabot		Anadarko		Atlas		Atlas	
County	Susquehanna		Susquehanna		Clinton		Tioga		Tioga		Tioga		Indiana		Susquehanna		Susquehanna		Clinton		Fayette		Fayette	
Site Name	J. Grimsely 2H		J. Grimsely 1		Cop Tract 285 2H		Smith K 253 1H		Bowers 408 1H		White 262 1H		Ind. Co. Airport 8391H		Hubbard 5H		Hubbard 6H		COP Tract 653 1001H		Frac Flow Back		Frac Flow Back	
Tyoe of Sample	Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Tank Frac Water		Tank Frac Water		Frac Flow Back		W. Smith #1		Bezjak #26	
Permit #	115-20171		115-20095		035-21155		117-20268		117-20325		117-20295		063-36435		115-20148		115-20147		035-21162		051-24098		051-24209	
Date	11/19/2009		11/19/2009		11/18/2009		11/4/2009		10/16/2009		10/1/2009		9/25/2009		9/9/2009		9/9/2009		9/2/2009		8/19/2009		8/5/2009	
Collector	Fuller		Fuller		Fuller		Fuller		Fuller		Fuller		Fuller/Tersine		Fuller		Fuller		Fuller		Fuller		Fuller	
	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results
1,2-Propanediol	<1	U	<1	U	<10	U	<1	U	<1	U	<1	U	<1	U	140		<1	U	3.2	PPBV	98		120	
Ethylene Glycol	<1	U	<1	U	<10	U	82		130		36		<1	U	40		<1	U	6.9	PPBV	<1	U	42	B

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Count	16		15		14		13		12		11		10		9		8		7		5		6	
Lab. Sample ID	O2009005475		O2009005410		O2009005244		O2009005158		O2009004963		O2009004760		O2009004027		O2008008689		O2008008482		O2008008411		O2008007833		O2008007832	
Collector No.	9522014		9516013		9516010		9516001		9516001		9516001		9516003		9516002		9516003		9516002		9516004		9516001	
Operator	East		Atlas																					
County	Tioga		Fayette		Clearfield		Greene		Clearfield		Tioga		Somerset		Clearfield		Clearfield		Clearfield		Susquehanna		Susquehanna	
Site Name	Frac Flow Back		Frac Flow Back		Pit Drill Water		Frac Flow Back		Pit Drill Water		Pit Water		Frac Flow Back		Frac Water		Frac Water		Frac Water		Costello # 1		Teel # 7	
Type of Sample	Courtney H 255		LEE #11		Hutton #1H		Consol USX #66		Hutton #1H		Benson 130D		Yoder		Bonsall		Bonsall 7		Bonsall 7		Frac Flow Back		Frac Flow Back	
Permit #	117-20279		051-24206		033-26803		059-25137		033-26803		117-20205		111-20268		033-26585		033-26585		033-26585					
Date	7/23/2009		7/22/2009		7/14/2009		7/8/2009		7/1/2009		6/24/2009		5/29/2009		11/5/2008		10/27/2008		10/23/2008		10/9/2008		10/9/2008	
Collector	Fuller		Fuller		Fuller		Fuller		Tersine		Tersine		Tersine		Tersine		Tersine		Tersine		Tersine		Tersine	
	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results
1,2-Propanediol	<1	U	33		<10	U	80		<50	U	<5	U	160		41		60		93		<1	U	<1	U
Ethylene Glycol	24		11	B	<10	U	<10	U	<100	U	<5	U	<10	U	14		25		33		1.3	B	2	B

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Count	3		4		1		2			
Lab. Sample ID	O2008007835		O2008007834		O2008007667		O2008007666		O2008004622	
Collector No.	9516008		9516007		9516002		9516001		2359071	
Operator	H#2		H#1		H#2		H#1			
County	Centre		Centre		Centre		Centre		Westmoreland	
Site Name	Litke 8H		Litke 7H		Litke 8H		Litke 7H		Skokut 2A	
Type of Sample	Frac Water		Frac Water		Frac Water		Frac Water			
Permit #	027-21479		027-21478		027-21479		027-21478		129-27331	
Date	10/9/2008		10/9/2008		10/2/2008		10/2/2008		6/5/2009	
Collector	Tersine		Tersine		Tersine		Tersine		Higgins	
	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results	Reported (mg/l)	Results
1,2-Propanediol	43		40		110		67		200	Q
Ethylene Glycol	41		30		74		50		10	Q