



Williford Resources, LLC 6506 S. Lewis Ave. Ste. 102 Tulsa OK, 74136	Project Name: Soil Samples Marvel, CO. Project Number: 14057-0001 Project Manager: Glenn Stevens	Reported: 21-Aug-14 13:53
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L&S #6 Pit #1
P408046-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1433025	08/14/14	08/20/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1433025	08/14/14	08/20/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1433025	08/14/14	08/20/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1		1433025	08/14/14	08/20/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1433025	08/14/14	08/20/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1433025	08/14/14	08/20/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1433025	08/14/14	08/20/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		90.6 %		50-150		1433025	08/14/14	08/20/14	EPA 8021B	
Surrogate: Bromochlorobenzene		98.6 %		50-150		1433025	08/14/14	08/20/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	16.8	5.00	mg/kg	1		1433025	08/14/14	08/20/14	EPA 8015D	
Diesel Range Organics (C10-C28)	3310	35.0	mg/kg	1		1433022	08/14/14	08/20/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		135 %		50-200		1433022	08/14/14	08/20/14	EPA 8015D	
Total Metals by 6010										
Arsenic	ND	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Barium	367	4.98	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Cadmium	1.67	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Chromium	34.8	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Copper	39.9	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Lead	64.7	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Mercury	ND	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Nickel	17.4	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Selenium	6.64	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Silver	3.84	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	
Zinc	131	1.00	mg/kg	1		1433043	08/16/14	08/18/14	EPA 6010C	

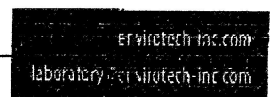
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Analyte	Reporting								
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
pH @21.1°C	8.46		pH Units	1	1433023	08/14/14	08/14/14	EPA 9045D	
Electrical Conductivity	179		umhos/cm	1	1433023	08/14/14	08/14/14	EPA 120.1	
Sodium Absorption Ratio	0.419		N/A	1	1433045	08/16/14	08/16/14	[CALC]	
Calcium	11.6	0.01	mg/L	1	1433031	08/15/14	08/16/14	EPA 6010C	
Magnesium	1.89	0.01	mg/L	1	1433031	08/15/14	08/16/14	EPA 6010C	
Sodium	5.84	0.01	mg/L	1	1433031	08/15/14	08/16/14	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010									
Boron	ND	0.50	mg/L	1	1434004	08/18/14	08/18/14	EPA 6010C	

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