

Upton Mine

Report ID: Qa RER Upton Filter Report 4Q_2014

**Ambient Air Particulate Network Summary
4Q 2014**

Report Date: 5-Feb-15

Reported By: Halloran

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Act Flow	Std Vol	Act Vol	Std Conc	Act Conc	Comments
			grams	grams	grams	minutes	m ³ /min	m ³	m ³	µg/m ³	µg/m ³	
516023	1-PM10	10/01/14	4.5197	4.5321	0.0124	1440	1.30	1776	1867	Invalid ¹	Invalid ¹	Flow rate out of limits
516024	1-PM25	10/06/14	4.4980	4.5088	0.0108	1440	1.25	1588	1795	Invalid ¹	Invalid ¹	Flow rate out of limits
516029	3-PM10	11/18/14	4.5073	4.5137	0.0064	1070	1.62	1583	1730	Invalid ^{1,2}	Invalid ^{1,2}	Time and flow out of limits
516031	3-PM25	12/02/14	4.5054	4.5093	0.0039	1467	1.73	1661	2541	Invalid ¹	Invalid ¹	Flow rate out of limits
516027	4-PM10	10/28/14	4.5207	4.6489	0.1282	1440	1.21	1582	1749	81	73	
516025	4-PM25	10/13/14	4.5139	4.5212	0.0073	1440	1.26	1593	1810	Invalid ¹	Invalid ¹	Flow rate out of limits
519703	5-PM10	12/09/14	4.5028	4.5653	0.0625	1440	1.23	1631	1778	38	35	
516032	5-PM25	12/04/14	4.5201	4.5336	0.0135	1440	1.22	1634	1763	8	8	

¹ Actual flow rate limits for high volume samples are 1.13±10% m³/min or 1.02 to 1.24 m³/min. Flow rates out of specified limits change the particle size discrimination characteristics of the sample inlet; high flow rate produces results biased low and low flow rate produces results biased high. (EPA Method 2.11, sec 2.1)

² Valid sample collection period is 24±1 hr or 1440±60 minutes (40 CFR 50 Appendix J, sec 9.10)