

Table 4. QA/QC data for arsenic analyses done by Frontier Geosciences, Inc.

SAMPLE BATCH	SAMPLE/REFERENCE MATERIAL	DATE COLLECTED	DATE REPORTED	ANALYTE	MATRIX DUPLICATES				MATRIX SPIKE RECOVERY					LABORATORY CONTROL STANDARD			
					Rep. 1* µg/L	Rep. 2* µg/L	Mean µg/L	RPD**	Spike added µg/L	MS Conc.*** Rep.1*, µg/L	Recovery (%)	MS Conc.*** Rep.2*, µg/L	Recovery (%)	RPD**	True/certified value, µg/L	Observed value, µg/L	Recovery (%)
98RA-HP	98RA-HP1-150	3/11/98	4/8/98	As(III)	3.027	2.713	2.870	10.9	2.51	4.876	79.9	4.893	80.6	0.3			
	98RA-HP1-150	3/11/98	4/8/98	As(total)	763.8	747.3	755.6	2.2	512.0	1181	83.1	1238	94.2	4.7			
	QCS-1 (SRM)		4/8/98	As(total)											100.0	106.0	106.0
98RA1-HP	98RA1-HP1-150	6/1/98	6/20/98	As (III)	3.783	3.591	3.687	5.2	3.970	7.745	102.2	7.231	89.3	6.9			
	98RA1-HP3	6/1/98	6/20/98	As(Tl)	5.851	4.712	5.282	21.6	14.99	19.72	96.3	18.93	91.1	4.1			
	98RA1-HP1-75	6/1/98	6/20/98	As (total)	838.9	852.1	845.5	1.6	1000	1856	101.1	1827	98.2	1.6			
	As(III) 2nd source (SRM)		6/20/98	As(III)											5.049	4.537	89.9
	As(V) (SRM)		6/20/98	As(Tl)											100.2	108.1	107.9
	NIST 1643d (SRM)		6/20/98	As(total)											56.02	53.27	95.1
98RA2-HP	98RA2-HP1-0	10/22/98	10/31/98	As (III)	9.244	10.01	9.627	8.0	9.925	19.81	102.6						
	98RA2-HP3	10/22/98	10/31/98	As(Tl)	6.190	5.122	5.656	18.9	9.99	14.05	84.0	14.69	90.4	4.5			
	98RA2-HP2	10/22/98	10/31/98	As (total)	6.834	6.323	6.579	7.8	24.83	33.17	107.1	33.76	109.5	1.8			
	As(III) 2nd source (SRM)		10/31/98	As(III)											101	102.5	101.5
	As(V) (SRM)		10/31/98	As(Tl)											100.2	104.1	103.9
	NIST 1643d (SRM)		10/31/98	As(total)											56.02	59.41	106.1
98KS-HP	98KS-HP6-0	10/28/98	11/18/98	As (III)	5.801	5.780	5.791	0.4	4.963	10.54	95.7	10.98	104.6	4.1			
98KS1-HP	98KS2-HP4-0	10/28/98	11/18/98	As(Tl)	811.4	902.5	857.0	10.6	499.7	1301	88.9	1359	100.5	4.4			
98KS2-HP																	
98RA3-HP	98RA3-HP1-0	12/15/98	1/18/99	As (III)	9.9	11.8	10.9	17.5	9.925	21.2	104.3	18.8	80.1	12.0			
98KS1-HP	98KS1-HP7-30	12/15/98	1/18/99	As(Tl)	888	796	842	10.9	2000	2890	102.4	3080	111.9	6.4			
98KS3-HP	NIST 1643d (SRM)		1/18/99	As(total)											56.02	56.7	101.2
99RA1-HP	FA99RA1-HP1-150	2/28/99	3/29/99	As(Tl)	715.3	747.1	731.2	4.3	1242	1985	101.0	1951	98.2	1.7			
	NIST 1643d (SRM)		3/29/99	As(total)											56.02	58.27	104.0
99RA2-HP	FA99RA2-HP1-75	6/24/99	7/19/99	As (III)	3.147	3.057	3.102	2.9	5.225	7.808	90.1	8.196	97.5	4.8			
	RA99RA2-HP1-150	6/24/99	7/19/99	As(Tl)	967.1	916.5	941.8	5.4	653.1	1614	102.9	1627	104.9	0.8			
	As(III) 2nd source (SRM)		7/19/99	As(III)											102	93.62	91.8
	NIST 1643d (SRM)		7/19/99	As(total)											56.02	62.49	111.5
99RA3-HP	FA99RA3-HP1-0	9/22/99	10/22/99	As (III)	4.827	4.904	4.866	1.6	13.06	18.77	106.5	19.00	108.2	1.2			
	RA99RA3-HP1-75	9/22/99	10/22/99	As(Tl)	858.0	796.1	827.1	7.5	2688	3345	93.7	3435	97.0	2.7			
	NIST 1643d (SRM)		10/22/99	As(total)											56.02	53.83	96.1
				<p>EXPLANATION OF TABLE ABBREVIATIONS</p> <p>* Rep. = Replicate determinations, each indicated (1st determination = Rep. 1, 2nd determination = Rep. 2)</p> <p>** RPD = Relative percent difference (unit is percent)</p> <p>*** MS Conc =Concentration observed for matrix-spiked sample (measures sum of original concentration and spike)</p>													