Table 6. Quantitative mineralogy (wt.%) by XRD analyses for klinker samples from the Smoking Hills area, NWT. Note: samples in grey were freeze-dried prior to analyses; all samples were pulverized using the McCrone micronizing mill.

Mineral Groups	***Silicates***						***Phyllosilicates***			***Elemental***	***Sulphates***									***Oxides***		***GoF***	***%XL***
Sample ID	**Qtz**	**Crs**	**Pl**	**Hul-Ca**	**Hul-K**	**Ind**	**Ms**	**Sm**	**ML**	**S**	**Alu**	**Alg**	**Brt**	**Bsn**	**Gp**	**Jrs**	**Jrs-K**	**Jrs-N**	**Tmg**	**F-Hdr**	**Hem**		
GQA 18-7	15										13	9		2	5	42				2	12	2.23	40%
GQA 18-8	21				9						34					36						3.36	44%
GQA 18-9	27	24	5			5					17				tr	13					9	2.98	50%
GQA 18-10	13	11													5	50					21	1.97	40%
GQA 18-11	3	20									10			1	13	47					6	2.29	36%
GQA 18-12	38	7	11			23										3					18	2.34	43%
GQA 18-13	8	27									5				1	22	23				14	1.87	48%
GQA 18-15	1													77	22							3.27	83%
GQA 18-16	22		1				1				34				7	23					12	3.06	38%
GQA 18-17	12		15				7					21			7	18			16		4	2.87	42%
GQA 18-18	29	1									10		1		3		56					2.29	63%
GQA 18-19	18		2		5										4		64				7	1.76	52%
GQA 18-20	19				11		12	tr	tr						7		47				4	2.57	41%
GQA 18-21	22			tr											4	74						2.08	38%
GQA 18-23															100							1.99	95%
GQA 18-24	24		5		3		8		tr			tr			12	40					8	2.19	43%
GQA 18-25	15		tr	23			7					tr			4	46		5				2.93	45%
Klinker 1	17										57						10				16	1.78	45%
Klinker 2										100												1.75	90%

Qtz: quartz, Crs: cristobalite, Pl: plagioclase, Kfs: K-feldspar, Hul-Ca: heulandite-Ca, Hul-K: heulandite-K, Ind: indialite, Ms: muscovite, Sm: smectite, ML: mixed-layer clay minerals, S: elemental S, Alu: alunite, Alg: alunogen, Brt: barite, Bsn: bassanite, Gp: gypsum, Jrs: jarosite, Jrs-H: hydronium jarosite, Jrs-N: natrojarosite, Tmg: tamarugite, F-Hdr: ferrihydrate, Hem: hematite, GoF: goodness of fit, %XL: percent crystallinity, tr: trace