

Daily Analysis Runlog For Sequence/QC Batch ID # LB90016

Review By

Review On

SubDirectory

LB90016

Test :

TKN

STD. NAME		STD REF.#				
ICAL Standard		WP57772				
ICV Standard		WP57774				
CCV Standard		WP57773				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57031,wp57459,wp57237,wp57238				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	09/12/17 09:25		OK
2	1.0PPM	1.0PPM	CAL2	09/12/17 09:25		OK
3	2.5PPM	2.5PPM	CAL3	09/12/17 09:25		OK
4	5.0PPM	5.0PPM	CAL4	09/12/17 09:25		OK
5	6.7PPM	6.7PPM	CAL5	09/12/17 09:25		OK
6	10.0PPM	10.0PPM	CAL6	09/12/17 09:25		OK
7	ICV1	ICV1	ICV	09/12/17 09:58		OK
8	ICB1	ICB1	ICB	09/12/17 09:58		OK
9	CCV1	CCV1	CCV	09/12/17 09:59		OK
10	CCB1	CCB1	CCB	09/12/17 09:59		OK
11	PB102151BL	PB102151BL	MB	09/12/17 09:59		OK
12	PB102151BS	PB102151BS	LCS	09/12/17 09:59		OK
13	I5138-01	EME-UTS-TS001-01	SAM	09/12/17 10:22	TKN High	Dilution
14	I5138-01DUP	EME-UTS-TS001-01	DUP	09/12/17 10:22	TKN High	Dilution
15	I5138-02	EME-UTS-TS001-01	MS	09/12/17 10:22	TKN High	Dilution
16	I5138-03	EME-UTS-TS001-01	MSD	09/12/17 10:22	TKN High	Dilution
17	I5138-04	EME-UTS-TS001-02	SAM	09/12/17 10:22		OK
18	I5138-05	EME-UTS-TS002-01	SAM	09/12/17 10:22	TKN High	Dilution
19	I5138-06	EME-UTS-TS003-01	SAM	09/12/17 10:23		OK
20	I5138-07	EME-UTS-TS004-01	SAM	09/12/17 10:23		OK
21	CCV2	CCV2	CCV	09/12/17 10:23		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90016

Review By		Review On				
SubDirectory		LB90016		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP57772				
ICV Standard		WP57774				
CCV Standard		WP57773				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57031,wp57459,wp57237,wp57238				
22	CCB2	CCB2	CCB	09/12/17 10:23		OK
23	I5138-08	EME-UTS-TS005-01	SAM	09/12/17 10:23		OK
24	I5138-09	EME-UTS-TS006-01	SAM	09/12/17 10:23	TKN High	Dilution
25	I5138-10	EME-UTS-TS007-01	SAM	09/12/17 10:33	TKN High	Dilution
26	I5138-11	EME-UTS-TS008-01	SAM	09/12/17 10:33		OK
27	I5138-12	EME-UTS-TS009-01	SAM	09/12/17 10:33		OK
28	I5138-13	EME-UTS-TS010-01	SAM	09/12/17 10:33		OK
29	I5138-14	EME-UTS-TS011-01	SAM	09/12/17 10:33		OK
30	I5138-15	EME-WM-TS001-01	SAM	09/12/17 10:33	TKN High	Dilution
31	I5138-16	EME-WM-TS002-01	SAM	09/12/17 10:33	TKN High	Dilution
32	I5138-17	EME-WM-TS003-01	SAM	09/12/17 10:33	TKN High	Dilution
33	CCV3	CCV3	CCV	09/12/17 10:33		OK
34	CCB3	CCB3	CCB	09/12/17 10:33		OK
35	I5138-18	EME-WM-TS004-01	SAM	09/12/17 10:33	TKN High	Dilution
36	I5138-19	EME-WM-TS005-01	SAM	09/12/17 10:33	TKN High	Dilution
37	I5138-20	EME-WM-TS006-01	SAM	09/12/17 10:40	TKN High	Dilution
38	I5138-21	EME-WM-TS007-01	SAM	09/12/17 10:40	TKN High	Dilution
39	I5138-22	EME-WM-TS008-01	SAM	09/12/17 10:40	TKN High	Dilution
40	CCV4	CCV4	CCV	09/12/17 10:40		OK
41	CCB4	CCB4	CCB	09/12/17 10:40		OK
42	I5138-01DL	EME-UTS-TS001-01	SAM	09/12/17 11:34	2XDilution for TKN	Confirms
43	I5138-01DUPDL	EME-UTS-TS001-01	DUP	09/12/17 11:34	2XDilution for TKN	Confirms

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Review By			Review On			
SubDirectory		LB90016	Test : TKN			
STD. NAME		STD REF.#				
ICAL Standard		WP57772				
ICV Standard		WP57774				
CCV Standard		WP57773				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57031,wp57459,wp57237,wp57238				
44	I5138-02DL	EME-UTS-TS001-01	MS	09/12/17 11:34	2XDilution for TKN	Confirms
45	I5138-03DL	EME-UTS-TS001-01	MSD	09/12/17 11:34	2XDilution for TKN	Confirms
46	I5138-05DL	EME-UTS-TS002-01	SAM	09/12/17 11:34	2XDilution for TKN	Confirms
47	I5138-09DL	EME-UTS-TS006-01	SAM	09/12/17 11:34	5XDilution for TKN	Confirms
48	I5138-10DL	EME-UTS-TS007-01	SAM	09/12/17 11:34	2XDilution for TKN	Confirms
49	I5138-15DL	EME-WM-TS001-01	SAM	09/12/17 11:34	2XDilution for TKN	Confirms
50	I5138-16DL	EME-WM-TS002-01	SAM	09/12/17 11:34	2XDilution for TKN	Confirms
51	I5138-17DL	EME-WM-TS003-01	SAM	09/12/17 11:34	5XDilution for TKN	Confirms
52	CCV5	CCV5	CCV	09/12/17 11:34		OK
53	CCB5	CCB5	CCB	09/12/17 11:34		OK
54	I5138-18DL	EME-WM-TS004-01	SAM	09/12/17 11:41	2XDilution for TKN	Confirms
55	I5138-19DL	EME-WM-TS005-01	SAM	09/12/17 11:41	10XDilution for TKN	Confirms
56	I5138-20DL	EME-WM-TS006-01	SAM	09/12/17 11:41	10XDilution for TKN	Confirms
57	I5138-21DL	EME-WM-TS007-01	SAM	09/12/17 11:42	10XDilution for TKN	Confirms
58	I5138-22DL	EME-WM-TS008-01	SAM	09/12/17 11:42	2XDilution for TKN	Confirms
59	CCV6	CCV6	CCV	09/12/17 11:42		OK
60	CCB6	CCB6	CCB	09/12/17 11:42		OK



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS001-01	SDG No.:	LB90016
Lab Sample ID:	I5138-01	Matrix:	Solid
Level (low/med):	low	% Solid:	79

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	680	OR	1	5.9		30.7	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS001-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-01DL	Matrix:	Solid
Level (low/med):	low	% Solid:	79

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	676	D	2	11.8		61.4	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS001-02	SDG No.:	LB90016
Lab Sample ID:	I5138-04	Matrix:	Solid
Level (low/med):	low	% Solid:	79.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	553		1	5.8		30.1	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS002-01	SDG No.:	LB90016
Lab Sample ID:	I5138-05	Matrix:	Solid
Level (low/med):	low	% Solid:	76.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	800	OR	1	6.1		31.6	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS002-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-05DL	Matrix:	Solid
Level (low/med):	low	% Solid:	76.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	802	D	2	12.1		63.2	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS003-01	SDG No.:	LB90016
Lab Sample ID:	I5138-06	Matrix:	Solid
Level (low/med):	low	% Solid:	73.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	433		1	6.3		32.8	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS004-01	SDG No.:	LB90016
Lab Sample ID:	I5138-07	Matrix:	Solid
Level (low/med):	low	% Solid:	80.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	296		1	5.8		30.3	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS005-01	SDG No.:	LB90016
Lab Sample ID:	I5138-08	Matrix:	Solid
Level (low/med):	low	% Solid:	74.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	531		1	6.2		32.4	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS006-01	SDG No.:	LB90016
Lab Sample ID:	I5138-09	Matrix:	Solid
Level (low/med):	low	% Solid:	73

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1200	OR	1	6.3		32.6	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS006-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-09DL	Matrix:	Solid
Level (low/med):	low	% Solid:	73

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	774	D	5	31.3		163	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS007-01	SDG No.:	LB90016
Lab Sample ID:	I5138-10	Matrix:	Solid
Level (low/med):	low	% Solid:	77.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	922	OR	1	5.9		30.9	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS007-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-10DL	Matrix:	Solid
Level (low/med):	low	% Solid:	77.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	897	D	2	11.8		61.7	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS008-01	SDG No.:	LB90016
Lab Sample ID:	I5138-11	Matrix:	Solid
Level (low/med):	low	% Solid:	72.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	345		1	6.5		33.8	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS009-01	SDG No.:	LB90016
Lab Sample ID:	I5138-12	Matrix:	Solid
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	405		1	6		31.4	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS010-01	SDG No.:	LB90016
Lab Sample ID:	I5138-13	Matrix:	Solid
Level (low/med):	low	% Solid:	79.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	538		1	5.9		30.7	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-UTS-TS011-01	SDG No.:	LB90016
Lab Sample ID:	I5138-14	Matrix:	Solid
Level (low/med):	low	% Solid:	76.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	363		1	6.2		32	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS001-01	SDG No.:	LB90016
Lab Sample ID:	I5138-15	Matrix:	Solid
Level (low/med):	low	% Solid:	68.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1030	OR	1	6.8		35.7	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS001-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-15DL	Matrix:	Solid
Level (low/med):	low	% Solid:	68.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1030	D	2	13.7		71.4	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS002-01	SDG No.:	LB90016
Lab Sample ID:	I5138-16	Matrix:	Solid
Level (low/med):	low	% Solid:	65.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	982	OR	1	7.1		37.1	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS002-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-16DL	Matrix:	Solid
Level (low/med):	low	% Solid:	65.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1030	D	2	14.2		74.1	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS003-01	SDG No.:	LB90016
Lab Sample ID:	I5138-17	Matrix:	Solid
Level (low/med):	low	% Solid:	67

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1250	OR	1	6.9		35.9	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS003-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-17DL	Matrix:	Solid
Level (low/med):	low	% Solid:	67

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1200	D	5	34.4		179	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS004-01	SDG No.:	LB90016
Lab Sample ID:	I5138-18	Matrix:	Solid
Level (low/med):	low	% Solid:	67.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	748	OR	1	6.9		36	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS004-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-18DL	Matrix:	Solid
Level (low/med):	low	% Solid:	67.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	789	D	2	13.8		72	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS005-01	SDG No.:	LB90016
Lab Sample ID:	I5138-19	Matrix:	Solid
Level (low/med):	low	% Solid:	72.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	3160	OR	1	6.5		33.9	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS005-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-19DL	Matrix:	Solid
Level (low/med):	low	% Solid:	72.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1660	D	10	65.2		339	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS006-01	SDG No.:	LB90016
Lab Sample ID:	I5138-20	Matrix:	Solid
Level (low/med):	low	% Solid:	74.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	3010	OR	1	6.2		32.4	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS006-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-20DL	Matrix:	Solid
Level (low/med):	low	% Solid:	74.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1490	D	10	62.1		324	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS007-01	SDG No.:	LB90016
Lab Sample ID:	I5138-21	Matrix:	Solid
Level (low/med):	low	% Solid:	75.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	2990	OR	1	6.2		32.1	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS007-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-21DL	Matrix:	Solid
Level (low/med):	low	% Solid:	75.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1520	D	10	61.7		321	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS008-01	SDG No.:	LB90016
Lab Sample ID:	I5138-22	Matrix:	Solid
Level (low/med):	low	% Solid:	69.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1050	OR	1	6.7		34.7	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS008-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-22DL	Matrix:	Solid
Level (low/med):	low	% Solid:	69.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1040	D	2	13.3		69.5	mg/Kg	09/08/2017	09/12/2017	SM4500 N Org



Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB90016	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EME-WM-TS008-01DL	SDG No.:	LB90016
Lab Sample ID:	I5138-22DL	Matrix:	Solid
Level (low/med):	low	% Solid:	69.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90016

SDG No.: LB90016

Contract: _____

Lab Code: CHEM

Case No.: LB90016

SAS No.: LB90016

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	TKN	4.9	5	98	0	80 - 120		09/12/2017	09:58	LB90016



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90016

SDG No.: LB90016

Contract: _____ Lab Code: CHEM

Case No.: LB90016

SAS No.: LB90016

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	TKN	5	5	100	0	80 - 120		09/12/2017	09:59	LB90016
CCV2	TKN	4.9	5	98	0	80 - 120		09/12/2017	10:23	LB90016
CCV3	TKN	4.7	5	94	0	80 - 120		09/12/2017	10:33	LB90016
CCV4	TKN	4.9	5	98	0	80 - 120		09/12/2017	10:40	LB90016
CCV5	TKN	4.7	5	94	0	80 - 120		09/12/2017	11:34	LB90016
CCV6	TKN	4.9	5	98	0	80 - 120		09/12/2017	11:42	LB90016



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90016

SDG No.: LB90016

Contract:

Lab Code: CHEM

Case No.: LB90016

SAS No.: LB90016

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.19	+/-0.5	J			0.5	09/12/2017	09:58	LB90016



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90016

SDG No.: LB90016

Contract:

Lab Code: CHEM

Case No.: LB90016

SAS No.: LB90016

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.17	+/-0.5	J		0.5		09/12/2017	09:59	LB90016
CCB2	TKN	0.23	+/-0.5	J		0.5		09/12/2017	10:23	LB90016
CCB3	TKN	0.28	+/-0.5	J		0.5		09/12/2017	10:33	LB90016
CCB4	TKN	0.19	+/-0.5	J		0.5		09/12/2017	10:40	LB90016
CCB5	TKN	0.16	+/-0.5	J		0.5		09/12/2017	11:34	LB90016
CCB6	TKN	0.17	+/-0.5	J		0.5		09/12/2017	11:42	LB90016



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90016

SDG No.: LB90016

Contract: Lab Code: CHEM

Case No.: LB90016

SAS No.: LB90016

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB90016

SDG No.: LB90016

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB102151BL		SOLID		Batch Number:		PB102151		Prep Date:	09/08/2017	
	TKN	8.2	<24.5	J		24.5		09/12/2017	09:59	LB90016



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90016 level: low sdg no.: LB90016
contract: lab code: CHEM case no.: LB90016 sas no.: LB90016
matrix: Solid sample id: I5138-01 client id: EME-UTS-TS001-01MS
Percent Solids for Sample: 79 Spiked ID: I5138-02 Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	924	OR	680	OR	300	81		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90016 level: low sdg no.: LB90016
contract: lab code: CHEM case no.: LB90016 sas no.: LB90016
matrix: Solid sample id: I5138-01DL client id: EME-UTS-TS001-01DLX2MS
Percent Solids for Sample: 79 Spiked ID: I5138-02DL Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	917	D	676	D	300	80		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90016 level: low sdg no.: LB90016
contract: lab code: CHEM case no.: LB90016 sas no.: LB90016
matrix: Solid sample id: I5138-01 client id: EME-UTS-TS001-01MSD
Percent Solids for Sample: 79 Spiked ID: I5138-03 Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	923	OR	680	OR	300	81		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90016 level: low sdg no.: LB90016
contract: lab code: CHEM case no.: LB90016 sas no.: LB90016
matrix: Solid sample id: I5138-01DL client id: EME-UTS-TS001-01DLX2MSD
Percent Solids for Sample: 79 Spiked ID: I5138-03DL Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	950	D	676	D	300	91		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90016 **Level:** LOW **SDG No.:** LB90016
Contract: **Lab Code:** CHEM **Case No.:** LB90016 **SAS No.:** LB90016
Matrix: Solid **Sample ID:** I5138-01 **Client ID:** EME-UTS-TS001-01DUP
Percent Solids for Sample: 79 **Duplicate ID** I5138-01DUP **Percent Solids for Spike Sample:** 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	680	OR	649	OR	5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90016 **Level:** LOW **SDG No.:** LB90016
Contract: **Lab Code:** CHEM **Case No.:** LB90016 **SAS No.:** LB90016
Matrix: Solid **Sample ID:** I5138-01DL **Client ID:** EME-UTS-TS001-01DUPDL
Percent Solids for Sample: 79 **Duplicate ID** I5138-01DUPDL **Percent Solids for Spike Sample:** 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	676	D	680	D	1		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90016 **Level:** LOW **SDG No.:** LB90016
Contract: **Lab Code:** CHEM **Case No.:** LB90016 **SAS No.:** LB90016
Matrix: Solid **Sample ID:** I5138-02 **Client ID:** EME-UTS-TS001-01MSD
Percent Solids for Sample: 79 **Duplicate ID** I5138-03 **Percent Solids for Spike Sample:** 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	924	OR	923	OR	0		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90016 Level: LOW SDG No.: LB90016
Contract: Lab Code: CHEM Case No.: LB90016 SAS No.: LB90016
Matrix: Solid Sample ID: I5138-02DL Client ID: EME-UTS-TS001-01DLX2MSD
Percent Solids for Sample: 79 Duplicate ID I5138-03DL Percent Solids for Spike Sample: 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	917	D	950	D	4		

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90016

SDG No.: LB90016

Contract:

Lab Code: CHEM

Case No.: LB90016

SAS No.: LB90016

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102151BS TKN	mg/Kg	240	233		97.1	80 - 120	