



Date Submitted: 02-May-16
Invoice No.: A16-03812
Invoice Date: 01-Jun-16
Your Reference: COOK AREA TILL SAMPLING

MINNESOTA DEPT OF NAT RESOURCES
1525 3rd Avenue East Hibbing MN 55746 United States

ATTN: Andrea Reed

CERTIFICATE OF ANALYSIS

110 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A1 Au - Fire Assay INAA

REPORT **A16-03812**

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Notes:

*If value exceeds upper limit we recommend reassay by fire assay gravimetric Code 1A3.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with a large, stylized 'E' and 'M'.

Emmanuel Esemé , Ph.D.
Quality Control

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Analyte Symbol	Au	Mass
Unit Symbol	ppb	g
Lower Limit	1	
Method Code	FA-INAA	FA-INAA
059R001	5	31
059R002	3	29
059R003	< 1	29
059R004	1	29
059R005	< 1	30
059R006	< 1	15
059R007	< 1	29
059R008	3	15
059R009	< 1	15
059R010	7	29
202R001	4	30
202R002	1	29
202R003	< 1	15
202R004	< 1	30
202R005	< 1	15
202R006	< 1	30
202R007	< 1	30
207R001	< 1	20
207R002	4	15
207R003	< 1	29
207R004	1	15
207R005	< 1	15
207R006	3	30
207R007	< 1	30
207R008	< 1	29
303R001	< 1	30
303R002	6	29
303R003	< 1	29
303R004	4	30
303R005	4	29
303R006	< 1	29
303R007	9	29
303R008	3	30
303R009	1	29
303R010	< 1	29
303R011	< 1	29
303R012	6	30
303R013	4	30
306R001	2	29
306R002	< 1	16
306R003	4	29
306R004	< 1	29
306R005	< 1	30
306R006	< 1	29
306R007	7	30
306R008	< 1	29
306R009	< 1	30
306R010	< 1	30

Analyte Symbol	Au	Mass
Unit Symbol	ppb	g
Lower Limit	1	
Method Code	FA-INAA	FA-INAA
306R011	2	30
307R001	< 1	30
307R002	< 1	30
307R003	< 1	30
307R004	< 1	29
307R005	1	30
307R006	99	29
307R007	< 1	30
307R008	5	30
307R009	2	29
309R001	< 1	20
309R002	4	29
309R003	2	15
309R004	< 1	30
309R005	< 1	30
309R006	6	30
309R007	< 1	29
309R008	< 1	29
309R009	< 1	30
321R001	< 1	15
321R002	1	15
321R003	18	29
321R004	1	29
321R005	< 1	29
321R006	< 1	29
321R007	< 1	30
321R008	< 1	30
321R009	< 1	30
321R010	3	30
321R011	1	30
406R001	< 1	29
406R002	2	15
406R003	2	15
406R004	1	11
406R005	< 1	20
406R006	< 1	30
406R007	< 1	29
406R008	5	30
406R009	4	30
406R010	1	29
406R011	5	30
412R001	< 1	20
412R002	2	15
412R003	< 1	20
412R004	< 1	29
412R005	5	30
412R006	< 1	30
412R007	8	29

Analyte Symbol	Au	Mass
Unit Symbol	ppb	g
Lower Limit	1	
Method Code	FA-INAA	FA-INAA
412R008	2	30
412R009	< 1	29
419R001	< 1	10
419R002	< 1	15
419R003	< 1	29
419R004	< 1	30
419R005	1	30
419R006	< 1	29
419R007	< 1	29
419R008	< 1	30
419R009	1	30
419R010	< 1	29
419R011	3	30
419R012	2	29

Analyte Symbol	Au	Mass
Unit Symbol	ppb	g
Lower Limit	1	
Method Code	FA-INAA	FA-INAA
OxD108 Meas	414	
OxD108 Cert	414	
OxD108 Meas	417	
OxD108 Cert	414	
SG66 Meas	1070	
SG66 Cert	1090	
SG66 Meas	1050	
SG66 Cert	1090	
059R010 Orig	7	29
059R010 Dup	7	29
207R003 Orig	< 1	29
207R003 Dup	< 1	29
303R005 Orig	4	30
303R005 Dup	4	29
306R007 Orig	6	30
306R007 Dup	7	29
307R006 Orig	50	30
307R006 Dup	148	29
309R007 Orig	< 1	29
309R007 Dup	< 1	29
406R005 Orig	< 1	20
406R005 Dup	< 1	20
412R001 Orig	< 1	20
412R001 Dup	< 1	20
419R003 Orig	< 1	30
419R003 Dup	< 1	29
419R010 Orig	< 1	29
419R010 Dup	< 1	29
Method Blank	< 1	30
Method Blank	< 1	30
Method Blank	< 1	30
Method Blank	< 1	30
Method Blank	< 1	30
Method Blank	< 1	30
Method Blank	< 1	30