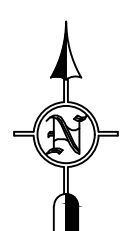


Map Unit Symbol	Map Unit Name	Slope (%)	1st Lift Salvage (in)	2nd Lift Salvage (in)	Total Salvage (in)	Components and Proportions (%)	Acres in Study Area	Percent of Study Area
Ad-b	Adel loams	5-15	12	24	36	Adel 80% / Medicineldodge 10% / Caseypeak 5% / Kimpton 5%	26.9	0.8%
Ch-b	Cheadle, channery loams	5-15	12	0	12	Cheadle 80% / Wineglass 10% / Duckcreek 5% / Medicineldodge 5%	798.5	23.7%
Cl-a	Clunton, clay loams - frequently flooded	0-5	12	24	36	Clunton 90% / Wineglass 10%	26.5	0.8%
Cp-c	Caseypeak, skeletal loams	15-40	12	0	12	Caseypeak 80% / Woodhall 10% / Kimpton 10%	222.4	6.6%
Cp-d	Caseypeak, skeletal loams - steep	40-70	0	0	0	Caseypeak 90% / Woodhall 5% / Kimpton 5%	79.3	2.4%
Dc-a	Duckcreek, clay loams	0-5	12	24	36	Duckcreek 90% / Cheadle 5% / Medicineldodge 5%	138.0	4.1%
Fa-b	Farlin, clay loams	0-5	12	24	36	Farlin 90% / Medicineldodge 5% / Raynesford 5%	46.5	1.4%
Hi-b	Houlihan, sandy loams	5-15	12	24	36	Houlihan 80% / Kimpton 10% / Caseypeak 5% / Cheadle 5%	50.2	1.5%
Kp-c	Kimpton, skeletal loams	15-40	12	24	36	Kimpton 80% / Caseypeak 10% / Woodhall 10%	345.8	10.3%
Kp-d	Kimpton, skeletal loams - steep	40-70	0	0	0	Kimpton 90% / Poin 5% / Woodhall 5%	127.7	3.8%
Lb-b	Libeg, clay loams	5-15	12	12	24	Libeg 90% / Caseypeak 5% / Cheadle 5%	197.8	5.9%
MI-a	Medicineldodge - frequently flooded	0-5	12	24	36	Medicineldodge 80% / Duckcreek 10% / Redfish 10%	256.4	7.6%
MI-b	Medicineldodge - occasionally flooded	5-15	12	24	36	Medicineldodge 90% / Wineglass 5% / Woodhurst 5%	71.7	2.1%
Pn-b	Poin, skeletal sandy loams	5-15	12	0	12	Poin 90% / Cheadle 5% / Kimpton 5%	188.3	5.6%
Rc-b	Redchief, silty loams	5-15	12	12	24	Redchief 90% / Kimpton 5% / Woodhall 5%	86.5	2.6%
Rf-a	Redfish, occasionally flooded	0-5	12	24	36	Redfish 90% / Medicineldodge 10%	31.5	0.9%
Ry-b	Raynesford, silty clay loams	5-15	12	24	36	Raynesford 90% / Duckcreek 5% / Farlin 5%	67.5	2.0%
Se-b	Sebud, gravelly loams	5-15	12	24	36	Sebud 90% / Cheadle 10%	35.7	1.1%
Wa-b	Woodhall, skeletal loams	5-15	12	12	24	Woodhall 80% / Caseypeak 10% / Kimpton 5% / Redchief 5%	328.1	9.7%
Wg-b	Wineglass, channery clay loams	5-15	12	24	36	Wineglass 80% / Cheadle 10% / Clunton 5% / Medicineldodge 5%	166.4	4.9%
Wu-b	Woodhurst, skeletal loams	5-15	12	12	24	Woodhurst 90% / Caseypeak 5% / Kimpton 5%	27.9	0.8%
DL	Disturbed Land	Varies	0	0	0	Disturbed Land 100%	36.9	1.1%
RO	Rock Outcrop	30-90	0	0	0	Rock Outcrop 90% / Woodhall 5% / Libeg 5%	11.3	0.3%
Total							3367.5	100%

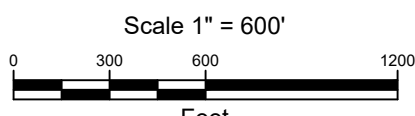
LEGEND

- Soils Study Area
- Permit Boundary
- Disturbance Boundary
- Fence
- Soil Map Unit Boundary
- Soil Survey Site
- Infiltration Test Pit Site

Aerial: 2013 NAIP
 Topo: 20' Generated from 1/2 second NED



Scale 1" = 600'



Feet

TINTINA RESOURCES
 Black Butte Copper Project

Baseline Soil Survey Map

WESTECH ENVIRONMENTAL
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Map Sheet 3

07/05/17 | BBC17_Soils_Baseline_MOPA_R1.dwg | 17.200