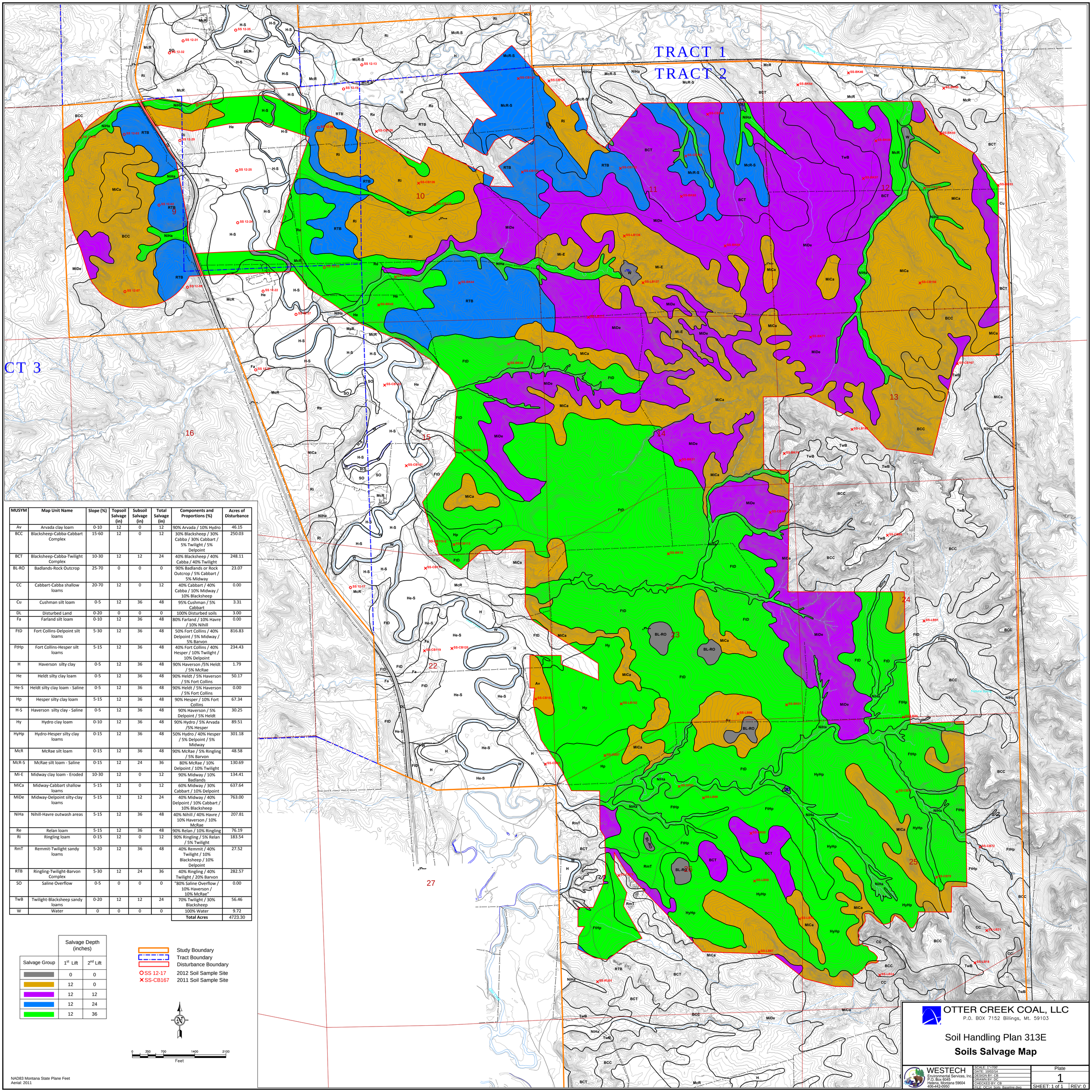

MUSYM	Map Unit Name	Slope (%)	Topsoil Salvage (in)	Subsoil Salvage (in)	Total Salvage (in)	Components and Proportions (%)	Acres of Disturbance
Av	Arvada clay loam	0-10	12	0	12	90% Arvada / 10% Hydro	46.15
BCC	Blacksheep-Cabba-Cabbart Complex	15-60	12	0	12	30% Blacksheep / 30% Cabba / 30% Cabbart / 5% Twilight / 5% Delpoint	250.03
BCT	Blacksheep-Cabba-Twilight Complex	10-30	12	12	24	40% Blacksheep / 40% Cabba / 40% Twilight	248.11
BL-RO	Badlands-Rock Outcrop	25-70	0	0	0	90% Badlands or Rock Outcrop / 5% Cabbart / 5% Midway	23.07
CC	Cabbart-Cabba shallow loams	20-70	12	0	12	40% Cabbart / 40% Cabba / 10% Midway / 10% Blacksheep	0.00
Cu	Cushman silt loam	0-5	12	36	48	95% Cushman / 5% Cabbart	3.31
DL	Disturbed Land	0-20	0	0	0	100% Disturbed soils	3.00
Fa	Farland silt loam	0-10	12	36	48	80% Farland / 10% Havre / 10% Nihill	0.00
FtD	Fort Collins-Delpoint silt loams	5-30	12	36	48	50% Fort Collins / 40% Delpoint / 5% Midway / 5% Barvon	816.83
FtHp	Fort Collins-Hesper silt loams	5-15	12	36	48	40% Fort Collins / 40% Hesper / 10% Twilight / 10% Delpoint	234.43
H	Haverson silty clay	0-5	12	36	48	90% Haverson /5% Heldt / 5% McRae	1.79
He	Heldt silty clay loam	0-5	12	36	48	90% Heldt / 5% Haverson / 5% Fort Collins	50.17
He-S	Heldt silty clay loam - Saline	0-5	12	36	48	90% Heldt / 5% Haverson / 5% Fort Collins	0.00
Hp	Hesper silty clay loam	5-15	12	36	48	90% Hesper / 10% Fort Collins	67.34
H-S	Haverson silty clay - Saline	0-5	12	36	48	90% Haverson / 5% Delpoint / 5% Heldt	30.25
Hy	Hydro clay loam	0-10	12	36	48	90% Hydro / 5% Arvada /5% Hesper	89.51
HyHp	Hydro-Hesper silty clay loams	0-15	12	36	48	50% Hydro / 40% Hesper / 5% Delpoint / 5% Midway	301.18
McR	McRae silt loam	0-15	12	36	48	90% McRae / 5% Ringling / 5% Barvon	48.58
McR-S	McRae silt loam - Saline	0-15	12	24	36	80% McRae / 10% Delpoint / 10% Twilight	130.69
Mi-E	Midway clay loam - Eroded	10-30	12	0	12	90% Midway / 10% Badlands	134.41
MiCa	Midway-Cabbart shallow loams	5-15	12	0	12	60% Midway / 30% Cabbart / 10% Delpoint	637.64
MiDe	Midway-Delpoint silty-clay loams	5-15	12	12	24	40% Midway / 40% Delpoint / 10% Cabbart / 10% Blacksheep	763.00
NiHa	Nihill-Havre outwash areas	5-15	12	36	48	40% Nihill / 40% Havre / 10% Haverson / 10% McRae	207.81
Re	Relan loam	5-15	12	36	48	90% Relan / 10% Ringling	76.19
Ri	Ringling loam	0-15	12	0	12	90% Ringling / 5% Relan / 5% Twilight	183.54
RmT	Remmit-Twilight sandy loams	5-20	12	36	48	40% Remmit / 40% Twilight / 10% Blacksheep / 10% Delpoint	27.52
RTB	Ringling-Twilight-Barvon Complex	5-30	12	24	36	40% Ringling / 40% Twilight / 20% Barvon	282.57
SO	Saline Overflow	0-5	0	0	0	"80% Saline Overflow / 10% Haverson / 10% McRae"	0.00
TwB	Twilight-Blacksheep sandy loams	0-20	12	12	24	70% Twilight / 30% Blacksheep	56.46
W	Water	0	0	0	0	100% Water	9.72
						Total Acres	4723.30

Salvage Group	Salvage Depth (inches) 1st Lift	2nd Lift
	0	0
	12	0
	12	12
	12	24
	12	36

Study Boundary
Tract Boundary
Disturbance Boundary
SS 12-17 — 2012 Soil Sample Site
SS-CB167 — 2011 Soil Sample Site

0 350 700 1400 2100
Feet

NAD83 Montana State Plane Feet
Aerial: 2011

OTTER CREEK COAL, LLC
P.O. BOX 7152 Billings, Mt. 59103

Soil Handling Plan 313E

Soils Salvage Map

WESTECH
Environmental Services, Inc.
P.O. Box 6045
Helena, Montana 59604
406-442-0950

SCALE: 1"=700'
DATE: 10/02/14
DESIGN BY: CB
DRAWN BY: DC
CHECKED BY: CB
FILE: OC14_Soils_Baseline.dwg

Plate 1
SHEET: 1 of 1 REV: 0