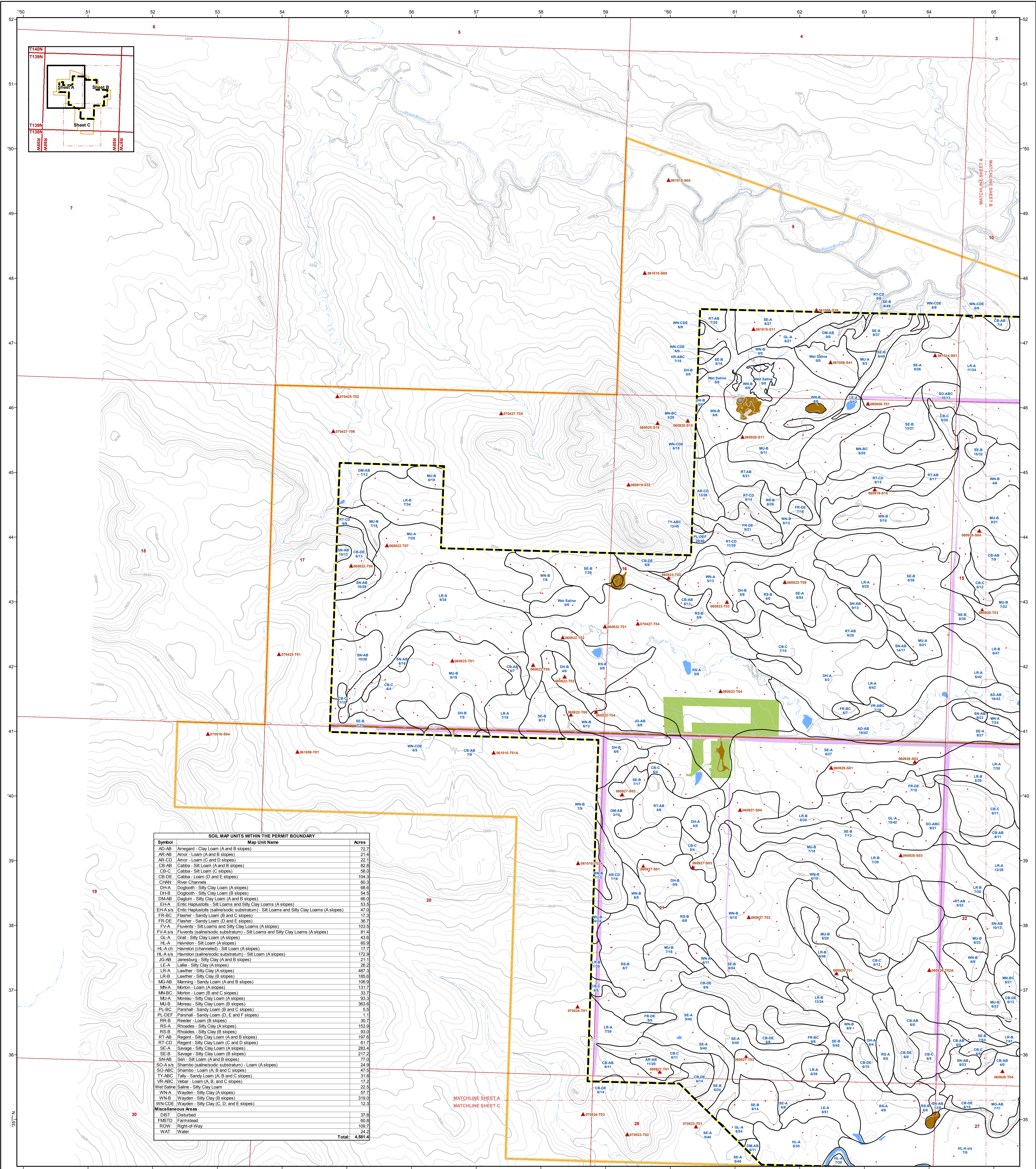




LEGEND

OBSERVATION POINTS

Recorded Only

Sampled - Labeled with Unique Site ID (070515-S39)

Permit Boundary

SOIL MAP UNITS

Map Units - Labeled with Symbol and Lift 1 / Lift 2 Salvage Thicknesses in inches (070515-S39)

Miscellaneous Areas

Salvage All Soil (both thicknesses) as Lift 2

Farmsteads

Rights-of-Way and Lanes

No Soil Salvage Within These Areas

Water and Permanently Wet Areas

Other Disturbed Areas

Study Area

Match Line

Drainage Way

Township and Range

Section

Index Contour - 20 Foot Interval

Contour - 5 Foot Interval

NOTES

Slope Ranges:

A = 0 to 3 percent;

B = 3 to 6 percent;

C = 6 to 9 percent;

D = 9 to 15 percent;

E = 15 to 25 percent; and

F = greater than 25 percent.

REFERENCE

Permit Boundary: IEI, 11/12/2009.

Study Area: Golder, 4/27/2007.

Township, Range, and Sections: ND HUB, 6/20/2006.

Roads, Railroad, Drainage Ways: Digitized from aerial photography, 6/19/2006.

Contours: Generated from aerial photography stereo pairs, 6/19/2006.

Projection: StatePlane, North Dakota South, NAD27, Feet.

500 250 0 500

SCALE: 1:6,000 1 IN = 500 FT

IF PRINTED AT 34 IN X 44 IN

NO.	DATE	DESCRIPTION	BY	CHK
1	02/07/11	Map Unit	JD	JD
2	02/07/11	Map Unit	JD	JD
3	02/07/11	Map Unit	JD	JD
4	02/07/11	Map Unit	JD	JD
5	02/07/11	Map Unit	JD	JD
6	02/07/11	Map Unit	JD	JD
7	02/07/11	Map Unit	JD	JD
8	02/07/11	Map Unit	JD	JD
9	02/07/11	Map Unit	JD	JD
10	02/07/11	Map Unit	JD	JD
11	02/07/11	Map Unit	JD	JD
12	02/07/11	Map Unit	JD	JD
13	02/07/11	Map Unit	JD	JD
14	02/07/11	Map Unit	JD	JD
15	02/07/11	Map Unit	JD	JD
16	02/07/11	Map Unit	JD	JD
17	02/07/11	Map Unit	JD	JD
18	02/07/11	Map Unit	JD	JD
19	02/07/11	Map Unit	JD	JD
20	02/07/11	Map Unit	JD	JD
21	02/07/11	Map Unit	JD	JD
22	02/07/11	Map Unit	JD	JD
23	02/07/11	Map Unit	JD	JD
24	02/07/11	Map Unit	JD	JD
25	02/07/11	Map Unit	JD	JD
26	02/07/11	Map Unit	JD	JD
27	02/07/11	Map Unit	JD	JD
28	02/07/11	Map Unit	JD	JD
29	02/07/11	Map Unit	JD	JD
30	02/07/11	Map Unit	JD	JD

SOIL SURVEY MAP (SHEET 1 OF 3)

CATENA

PROJECT: SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA

FIG 2.4-2A