









LEGEND

-  DRILL HOLE (LIGNITE SODIUM CONTENT %)
-  STUDY AREA
-  PERMIT BOUNDARY
-  MINE PIT BOUNDARY
-  SECTION
-  TOWNSHIP & RANGE
-  4.0 D COAL SODIUM CONTENT ISOPACH
-  SHMW-03HTB MONITORING WELL (NOT IN MODEL)

REFERENCE

Study Area: Golder 10/18/2007
 Permit Boundary: Norwest, 11/12/2009.
 Mine Pit Boundary: Norwest, 01/20/2010.
 Contours: Generated from SurvCAD, Carlson Mining 2008, 03/10/08.
 Borehole & Well Locations: Interstate Engineering, Inc., 04/23/2008 and Norwest 7/09/2007.
 PLSS: ND HUB, 6/20/2006.
 Projection: StatePlane, North Dakota South, NAD27, Feet.

2,000 1,000 0 2,000
 FEET
 SCALE 1:24,000 1 IN. EQUALS 2,000 FT.
 IF PRINTED AT 17 IN. X 22 IN.



REV	DATE	DES	REVISION DESCRIPTION	EGM	RTD	JRH
03/31/10	EGM		ORIGINAL PERMIT SUBMITTAL	EGM	RTD	JRH

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



TITLE: **D COAL SODIUM CONTENT (%) (As-received basis)**

NORWEST CORPORATION	PROJECT No.	4284-01-400	FILE No.	D Seam Qual#res.dwg
	DESIGN	EGM	03/11/08	SCALE AS NOTED
	CADD	EGM	01/22/10	REV. 0
	CHECK	RTD	02/10/10	
	REVIEW	JRH	02/15/10	

Figure 2.3-37