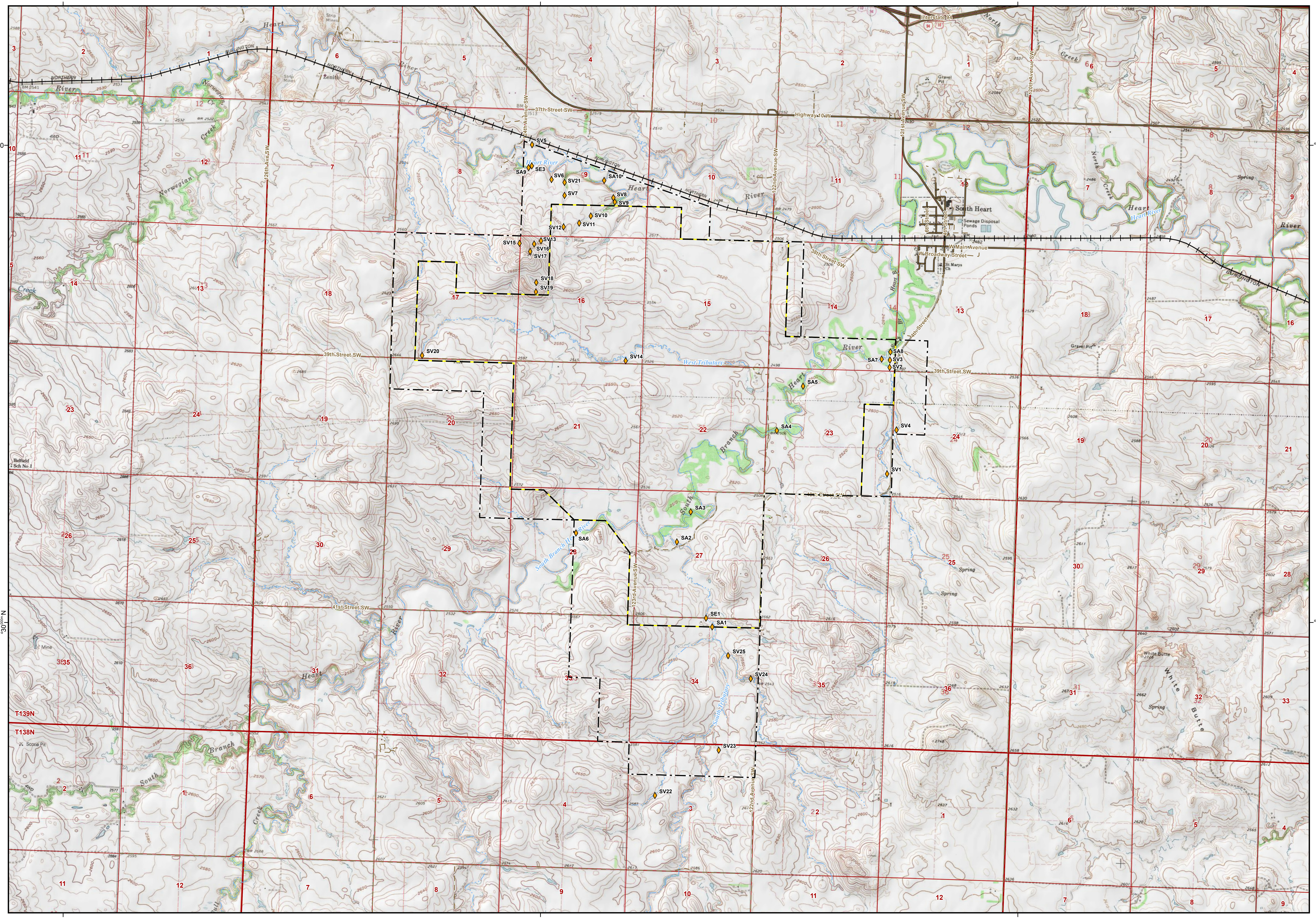
13 40
13 60
13 80
4 50
4 30 000m. N
13 40 000m. E
Interstate 94
Highway 10 W
37th Street SW
38th Street SW
39th Street SW
40th Street SW
41st Street SW
124th Avenue SW
126th Ave SW
123rd Avenue SW
122nd Avenue SW
121st Avenue SW
120th Avenue SW
6th Street
4th Street
W Main Avenue
W Broadway Street
South Heart
Sewage Disposal Ponds
St Marys Ch
Heart River
North Creek
Norwegian Creek
South Branch Heart River
West Tributary
South Tributary
Burlington Northern
Zenith
Strip Mines
Gravel Pit
Scoria Pit
Mine
Spring
White Butte 2728
Belfield Sch No 1
T139N
T138N
SV1
SV2
SV3
SV4
SV5
SV6
SV7
SV8
SV9
SV10
SV11
SV12
SV13
SV14
SV15
SV16
SV17
SV18
SV19
SV20
SV21
SV22
SV23
SV24
SV25
SA1
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
SA10
SE1
SE3

L E G E N D

◆	Geomorphology Survey Location
▭	Primary Study Area
▭	Permit Boundary
🟥	Township and Range
▭	Section
┼┼	Railroad
━	Paved Road
– –	Unpaved Road
–··–	Drainage Way

Naming Convention: SV10
SE - Erosional Site
SA - Alluvial Site
SV - Vegetated Site
10 - Numeric ID

R E F E R E N C E

Primary Study Area: Golder, 10/18/2007.
Permit Boundary: IEI, 11/12/2009.
Hydrologic Units, 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.
USGS 7.5' Topographic Quadrangles drawn from TOPO!: Belfield SE, South Heart.
Projection: StatePlane, North Dakota South, NAD27, Feet.

2,000 1,000 0 2,000 FEET

SCALE 1:24,000 1 IN = 2,000 FT
IF PRINTED AT 22 IN X 34 IN

N

REV	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
A						

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

TITLE
GEOMORPHIC SITE LOCATIONS

Golder Associates
Denver, Colorado

PROJECT NO.		063-2212A	FILE	SH_GeomorphSites.mxd
DESIGN	AJR	04/28/2008	SCALE	AS SHOWN REV. 0
GIS	AJR	02/24/2010	FIG 2.6-2	
CHECK	ADM	02/24/2010		
REVIEW	EJP	02/24/2010		

Map Document: M:\GNPD\SouthHeart\ArcMap\Permit\CH2\SurfaceWater\SH_GeomorphSites.mxd / Modified 3/8/2010 11:10:58 AM / Plotted 3/8/2010 11:10:59 AM by AReither