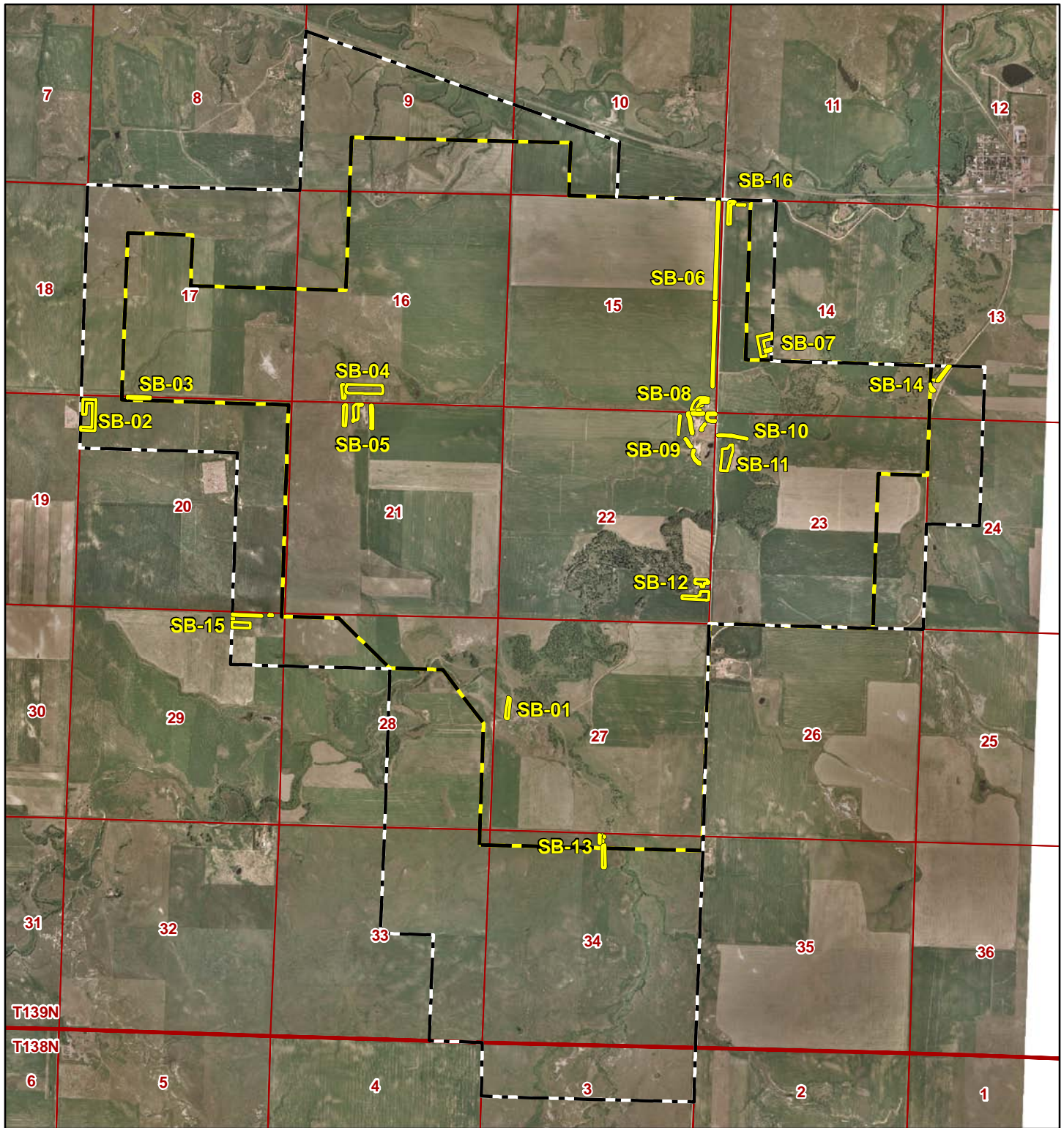


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LEGEND

3,500 1,750 0 3,500 Feet

Study Area
 Permit Boundary
 Township and Range
 Section
 Shelter Belt with Site ID

SCALE 1 IN = 3,500 FT
IF PRINTED AT 8.5 IN X 11 IN

N

Aerial Photography: Flown 6/19/2006.
StatePlane, North Dakota South, NAD27, Feet.

PROJECT

Golder Associates
 Denver, Colorado

GREAT NORTHERN

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

TITLE

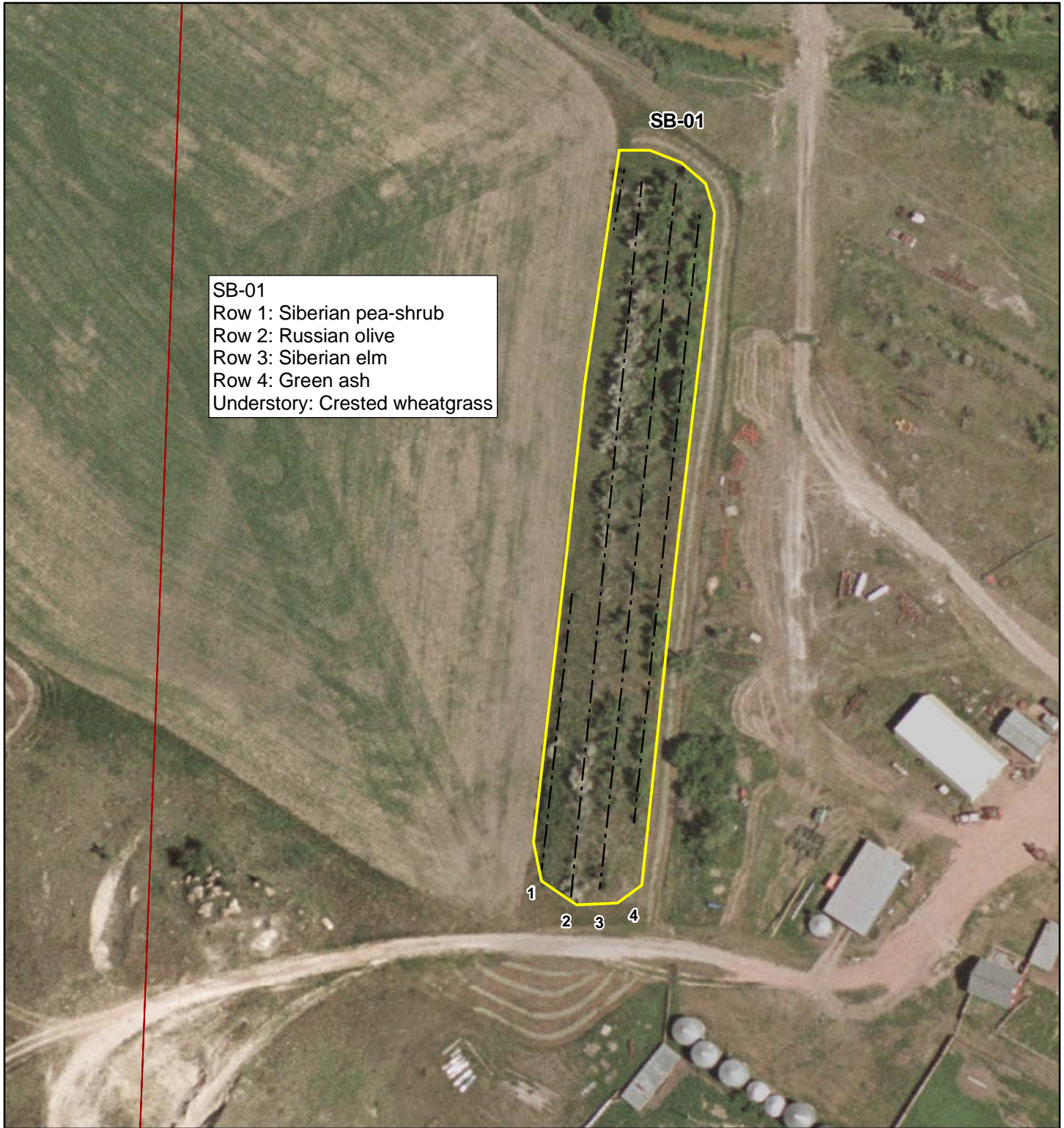
SHELTERBELT MAP OVERVIEW

PROJECT NO.	063-2212A	SH_Veg_Shelterbelts_Overview.mxd	
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GIS	AJR	02/03/2010	
CHECK	AM	02/03/2010	
REVIEW	KS	02/04/2010	

WESTECH
 Environmental Services, Inc.

FIG 2.7.2-4

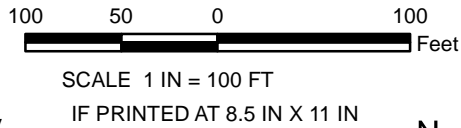
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SB-01
 Row 1: Siberian pea-shrub
 Row 2: Russian olive
 Row 3: Siberian elm
 Row 4: Green ash
 Understory: Crested wheatgrass

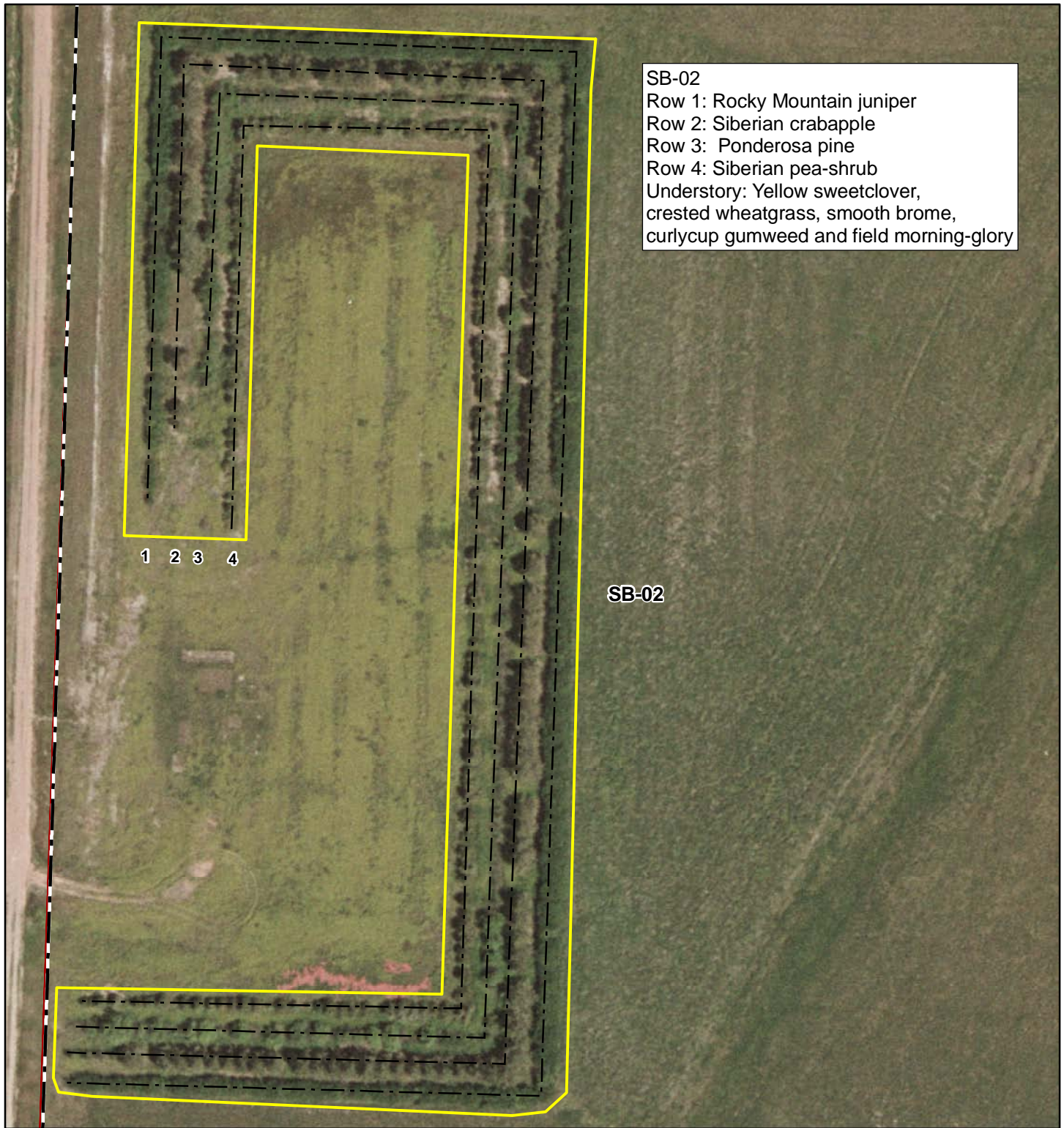
LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA			
		Denver, Colorado			
TITLE					
SHELTERBELT MAP (SB-01) P. KUYLEN 80% AND K. KUYLEN 20% NW1/4 SEC. 27 T139N R98W					
	PROJECT NO.		063-2212A	FILE	SH_Veg_Shelterbelts.mxd
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	GIS	AJR	02/03/2010	REV.	0
	CHECK	AM	02/03/2010	FIG 2.7.2-5	
	REVIEW	KS	02/08/2010		
WESTECH Environmental Services, Inc.					

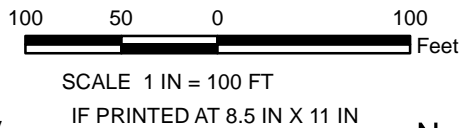


SB-02
 Row 1: Rocky Mountain juniper
 Row 2: Siberian crabapple
 Row 3: Ponderosa pine
 Row 4: Siberian pea-shrub
 Understory: Yellow sweetclover,
 crested wheatgrass, smooth brome,
 curlycup gumweed and field morning-glory

SB-02

LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.





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TITLE							
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GIS	AJR	02/03/2010	FIG 2.7.2-6				
CHECK	AM	02/03/2010					
REVIEW	KS	02/08/2010					
WESTECH Environmental Services, Inc.							

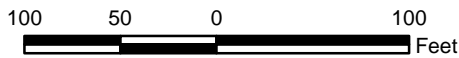
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SB-03
 Row 1: Plains cottonwood with 1 yellow willow
 Understory: Dense smooth brome

LEGEND




-  Study Area
-  Permit Boundary
-  Section
-  Shelter Belt with Site ID



SCALE 1 IN = 100 FT
 IF PRINTED AT 8.5 IN X 11 IN

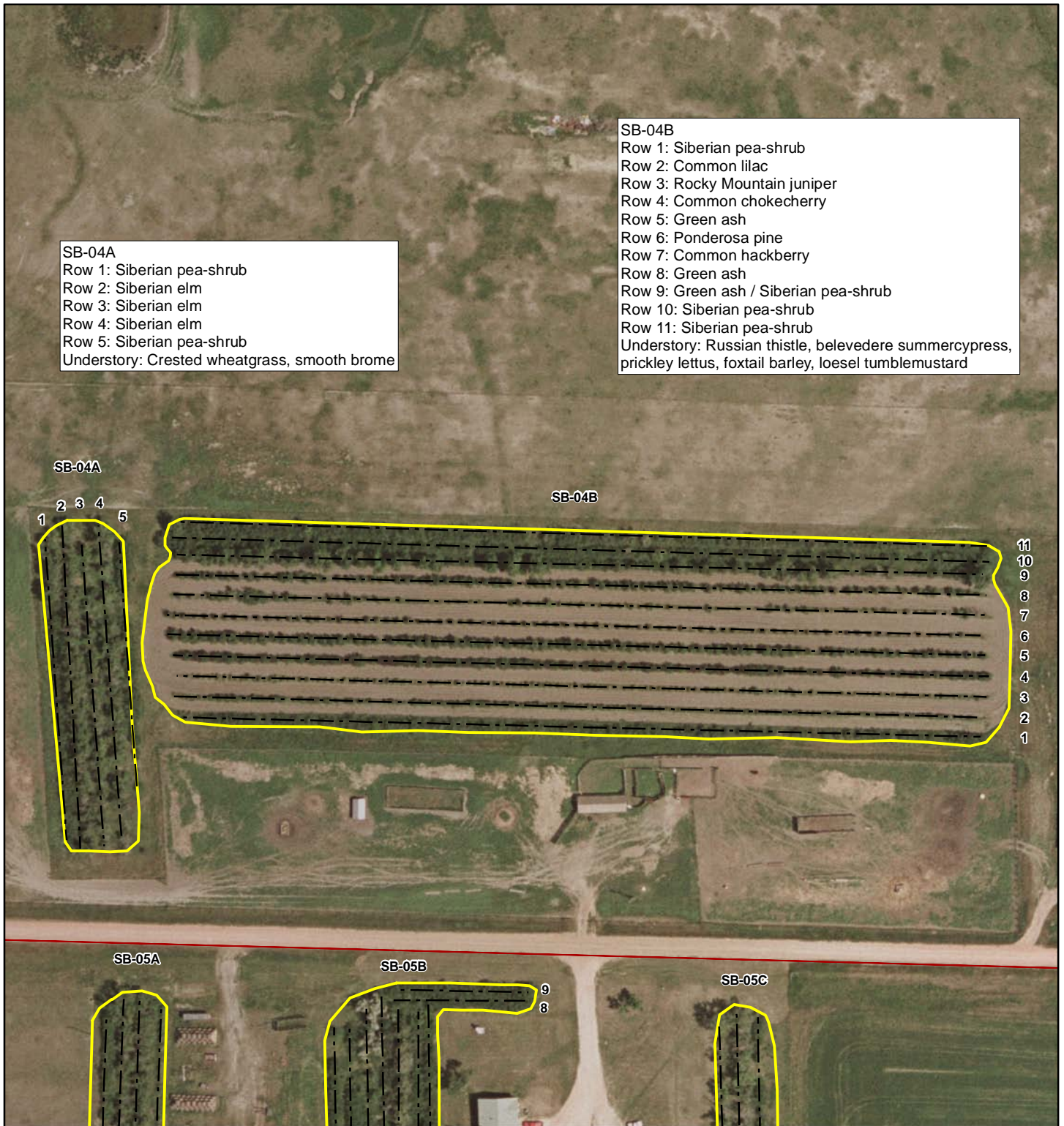


Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA			
		Denver, Colorado			
TITLE					
SHELTERBELT MAP (SB-03) P. KUYLEN 80% AND K. KUYLEN 20% NW1/4 SEC. 20 T139N R98W					
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DESIGN	DC	10/25/2007	SCALE	AS SHOWN	REV. 0
GIS	AJR	02/03/2010			
CHECK	AM	02/03/2010			
REVIEW	KS	02/08/2010			
WESTECH Environmental Services, Inc.			FIG 2.7.2-7		

SB-04A
 Row 1: Siberian pea-shrub
 Row 2: Siberian elm
 Row 3: Siberian elm
 Row 4: Siberian elm
 Row 5: Siberian pea-shrub
 Understory: Crested wheatgrass, smooth brome

SB-04B
 Row 1: Siberian pea-shrub
 Row 2: Common lilac
 Row 3: Rocky Mountain juniper
 Row 4: Common chokecherry
 Row 5: Green ash
 Row 6: Ponderosa pine
 Row 7: Common hackberry
 Row 8: Green ash
 Row 9: Green ash / Siberian pea-shrub
 Row 10: Siberian pea-shrub
 Row 11: Siberian pea-shrub
 Understory: Russian thistle, beveled summercypress, prickly lettuce, foxtail barley, loesel tumbledustard



LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



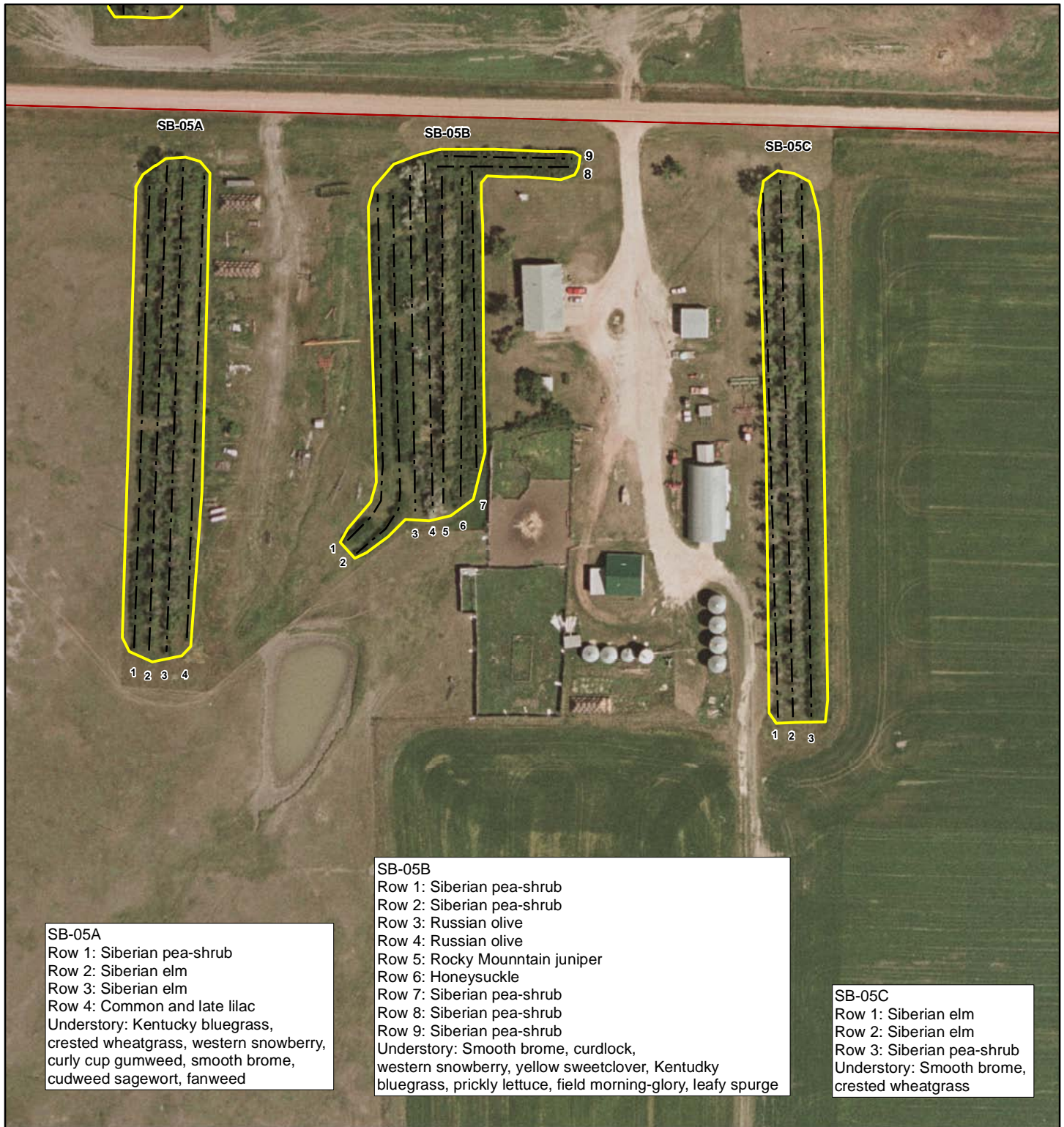
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 IF PRINTED AT 8.5 IN X 11 IN



Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA						
TITLE								
SHELTERBELT MAP (SB-04) KUYLEN, ROBERT F. AND BRENDA K. SW1/4 SEC. 16 T139N R98W								
PROJECT NO.		063-2212A		FILE		SH_Veg_Shelterbelts.mxd		
DESIGN	DC	10/25/2007	SCALE	AS SHOWN	REV.	0		
GIS	AJR	02/03/2010	FIG 2.7.2-8					
CHECK	AM	02/03/2010						
REVIEW	KS	02/08/2010						
 WESTECH Environmental Services, Inc.								

Map Document: M:\GNPDI\SouthHeart\ArcMap\Permit\CH2Vegetation\SH_Veg_Shelterbelts.mxd / Modified 2/12/2010 9:07:47 AM / Plotted 2/12/2010 9:07:47 AM by areither.



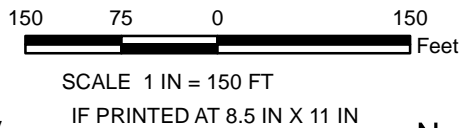
SB-05A
 Row 1: Siberian pea-shrub
 Row 2: Siberian elm
 Row 3: Siberian elm
 Row 4: Common and late lilac
 Understory: Kentucky bluegrass, crested wheatgrass, western snowberry, curly cup gumweed, smooth brome, cudweed sagewort, fanweed

SB-05B
 Row 1: Siberian pea-shrub
 Row 2: Siberian pea-shrub
 Row 3: Russian olive
 Row 4: Russian olive
 Row 5: Rocky Mountain juniper
 Row 6: Honeysuckle
 Row 7: Siberian pea-shrub
 Row 8: Siberian pea-shrub
 Row 9: Siberian pea-shrub
 Understory: Smooth brome, curdlock, western snowberry, yellow sweetclover, Kentucky bluegrass, prickly lettuce, field morning-glory, leafy spurge

SB-05C
 Row 1: Siberian elm
 Row 2: Siberian elm
 Row 3: Siberian pea-shrub
 Understory: Smooth brome, crested wheatgrass

LEGEND

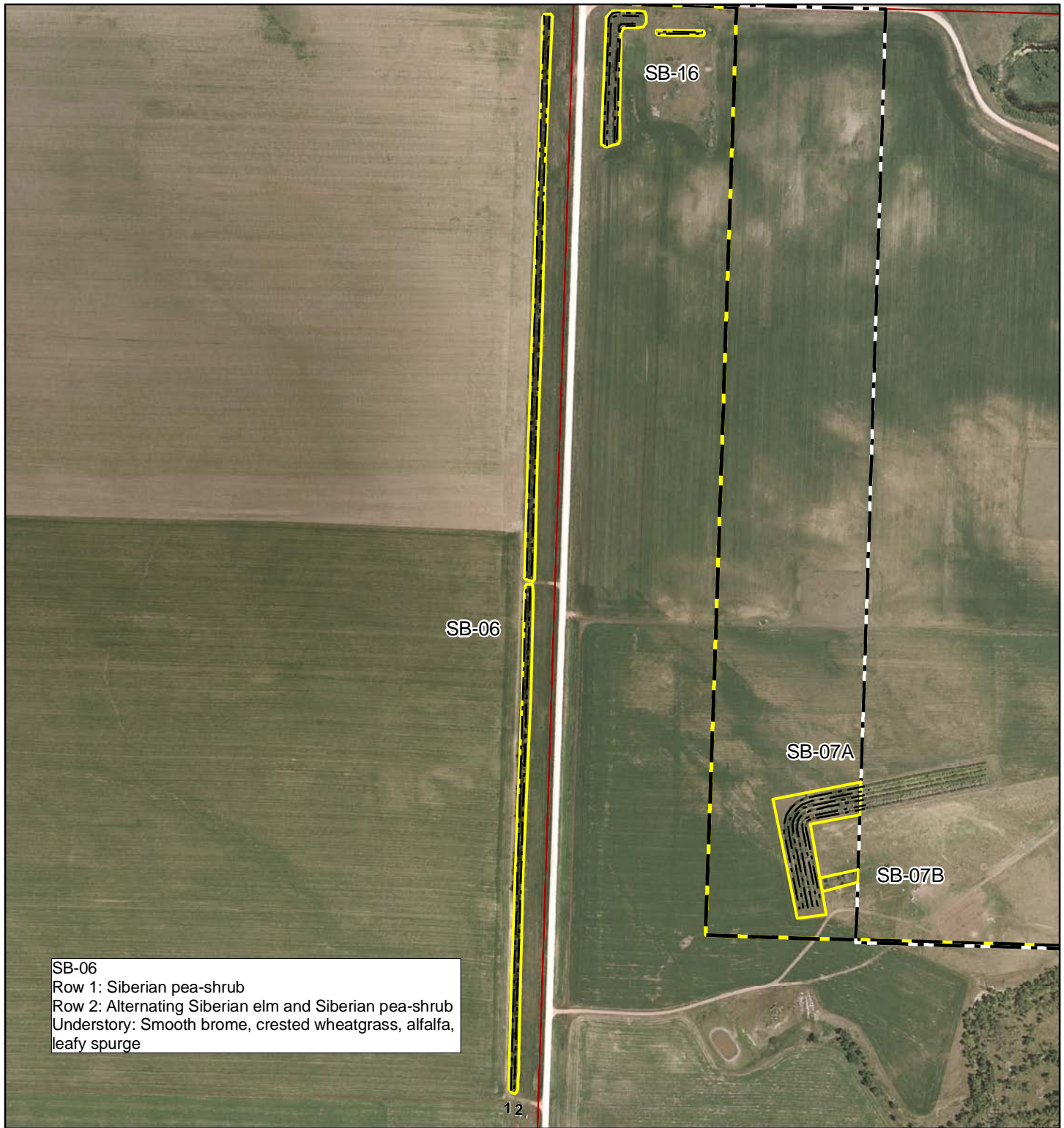
- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA		
		Denver, Colorado		
TITLE				
SHELTERBELT MAP (SB-05) KUYLEN, ROBERT F. AND BRENDA K. NW1/4 SEC. 21 T139N R98W				
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	GIS	AJR	02/03/2010	REV. 0
	CHECK	AM	02/03/2010	
REVIEW	KS	02/08/2010		
FIG 2.7.2-9				

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SB-06
 Row 1: Siberian pea-shrub
 Row 2: Alternating Siberian elm and Siberian pea-shrub
 Understory: Smooth brome, crested wheatgrass, alfalfa, leafy spurge


LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID

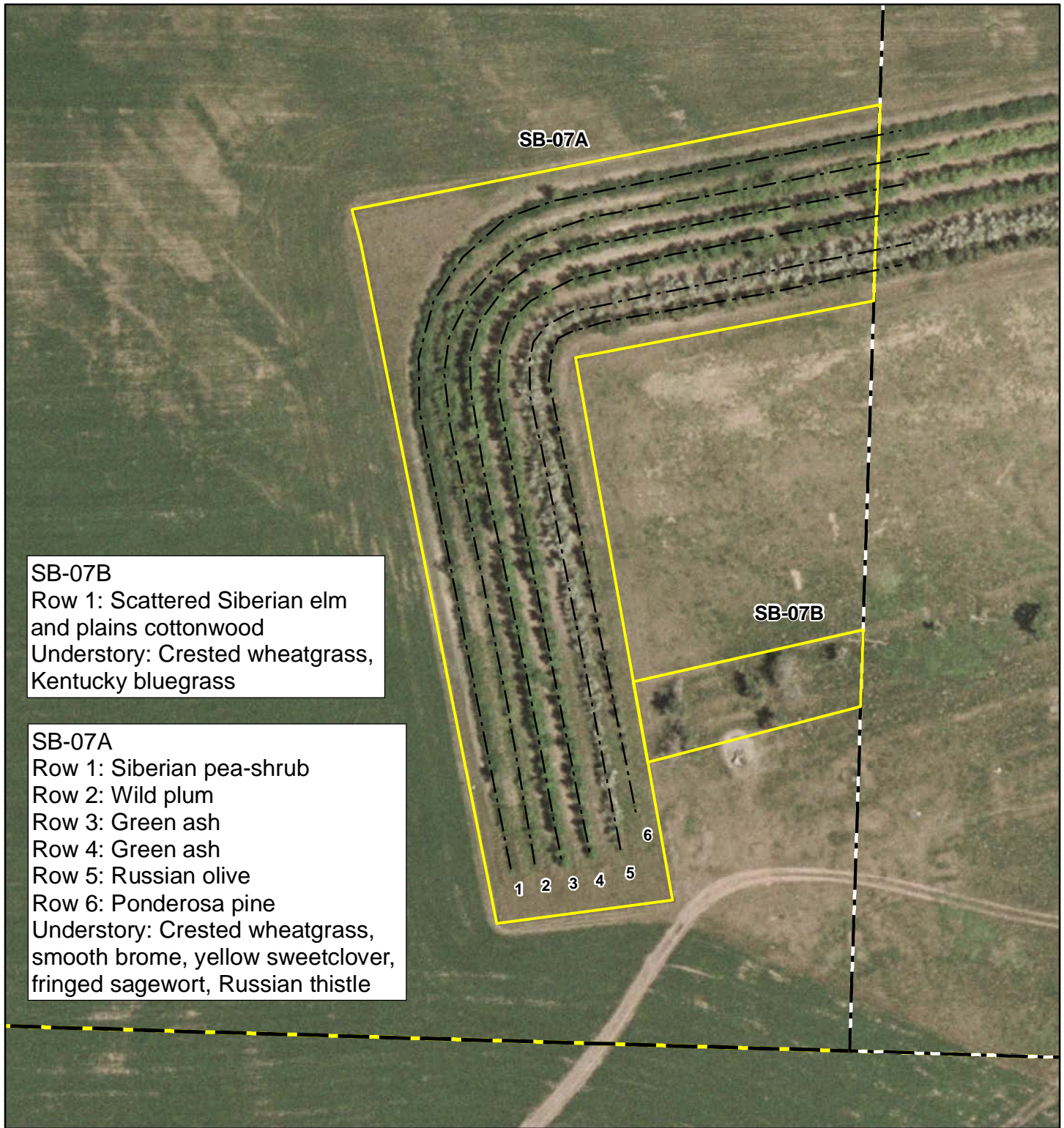
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 IF PRINTED AT 8.5 IN X 11 IN



Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA					
TITLE							
SHELTERBELT MAP (SB-06) PHP, LLP E1/2 E1/2 SEC. 15 T139N R98W							
		PROJECT NO.	063-2212A	FILE	SH_Veg_Shelterbelts.mxd		
DESIGN	DC	10/25/2007	SCALE	AS SHOWN	REV.	0	
GIS	AJR	02/03/2010	FIG 2.7.2-10				
CHECK	AM	02/03/2010					
REVIEW	KS	02/08/2010					
WESTECH Environmental Services, Inc.							

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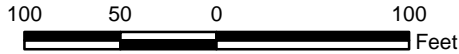


SB-07B
 Row 1: Scattered Siberian elm and plains cottonwood
 Understory: Crested wheatgrass, Kentucky bluegrass

SB-07A
 Row 1: Siberian pea-shrub
 Row 2: Wild plum
 Row 3: Green ash
 Row 4: Green ash
 Row 5: Russian olive
 Row 6: Ponderosa pine
 Understory: Crested wheatgrass, smooth brome, yellow sweetclover, fringed sagewort, Russian thistle

LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



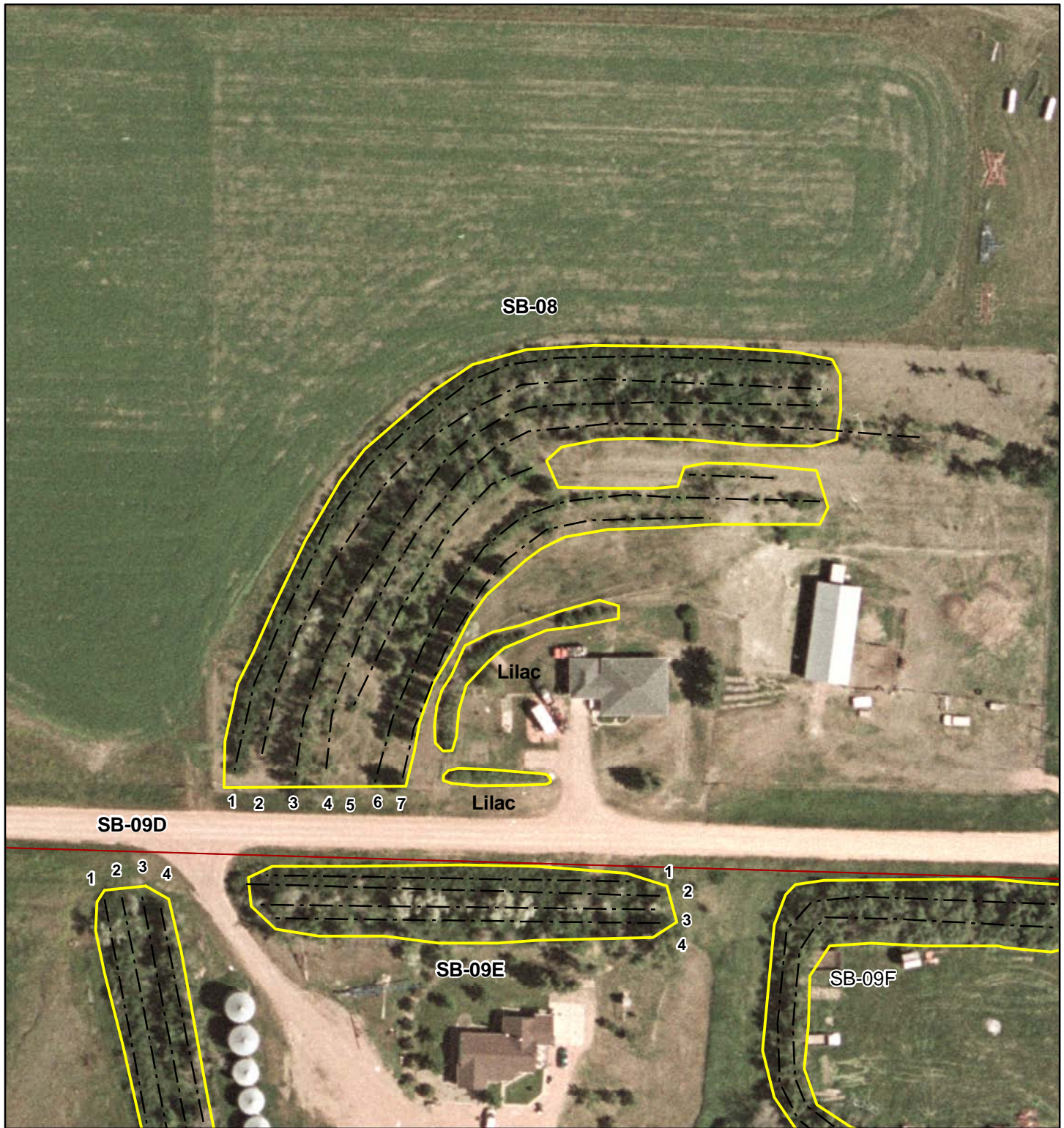
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Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

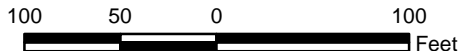
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		Denver, Colorado		
TITLE				
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	GIS	AJR	02/03/2010	REV. 0
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REVIEW	KS	02/08/2010		
WESTECH Environmental Services, Inc.				FIG 2.7.2-11

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LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



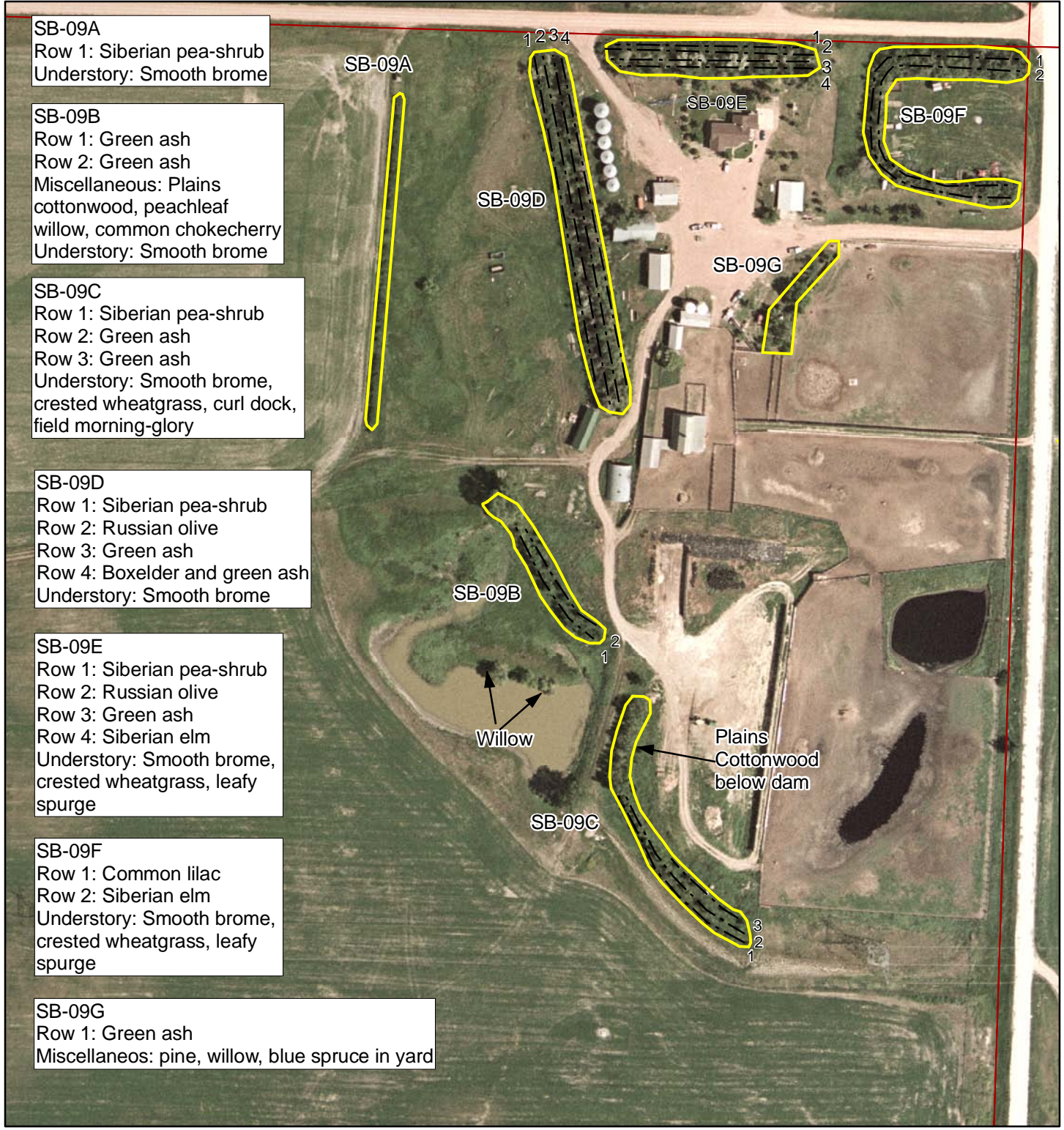
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IF PRINTED AT 8.5 IN X 11 IN



Aerial Photography: Flown 6/19/2006.
StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA			
TITLE					
SHELTERBELT MAP (SB-08) BUCKMAN, JOHN F SE1/4 SEC. 15 T139N R98W					
		PROJECT NO.	063-2212A	FILE	SH_Veg_Shelterbelts.mxd
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GIS	AJR	02/03/2010	FIG 2.7.2-12		
CHECK	AM	02/03/2010			
REVIEW	KS	02/08/2010			
WESTECH Environmental Services, Inc.					

Map Document: M:\GNP\SouthHeart\ArcMap\Permit\CH2Vegetation\SH_Veg_Shelterbelts.mxd / Modified: 2/15/2010 11:01:36 AM / Plotted: 2/15/2010 11:01:36 AM by ARReither



SB-09A
 Row 1: Siberian pea-shrub
 Understory: Smooth brome

SB-09B
 Row 1: Green ash
 Row 2: Green ash
 Miscellaneous: Plains cottonwood, peachleaf willow, common chokecherry
 Understory: Smooth brome

SB-09C
 Row 1: Siberian pea-shrub
 Row 2: Green ash
 Row 3: Green ash
 Understory: Smooth brome, crested wheatgrass, curl dock, field morning-glory

SB-09D
 Row 1: Siberian pea-shrub
 Row 2: Russian olive
 Row 3: Green ash
 Row 4: Boxelder and green ash
 Understory: Smooth brome

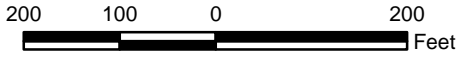
SB-09E
 Row 1: Siberian pea-shrub
 Row 2: Russian olive
 Row 3: Green ash
 Row 4: Siberian elm
 Understory: Smooth brome, crested wheatgrass, leafy spurge

SB-09F
 Row 1: Common lilac
 Row 2: Siberian elm
 Understory: Smooth brome, crested wheatgrass, leafy spurge

SB-09G
 Row 1: Green ash
 Miscellaneous: pine, willow, blue spruce in yard

LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



SCALE 1 IN = 200 FT
 IF PRINTED AT 8.5 IN X 11 IN



Aerial Photography: Flown 6/19/2006.
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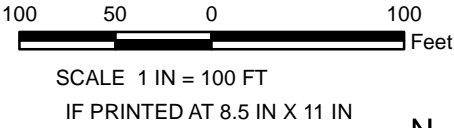
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TITLE SHELTERBELT MAP (SB-09) PERDAEMS, JAMES D. AND ROSELLA J. NW1/4 SEC. 22 T139N R98W																							
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PROJECT NO.	063-2212A	FILE	SH_Veg_Shelterbelts.mxd																				
DESIGN	DC	10/25/2007	SCALE AS SHOWN																				
GIS	AJR	02/03/2010	REV. 0																				
CHECK	AM	02/03/2010																					
REVIEW	KS	02/08/2010																					

SB-10
 Row 1: Mostly dead Manchu cherry
 Row 2: 650' Ponderosa pine plus 2 Scotch pine,
 180' Apple and Siberian
 crabapple, 200' Green ash
 Understory: Dense smooth brome



LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID

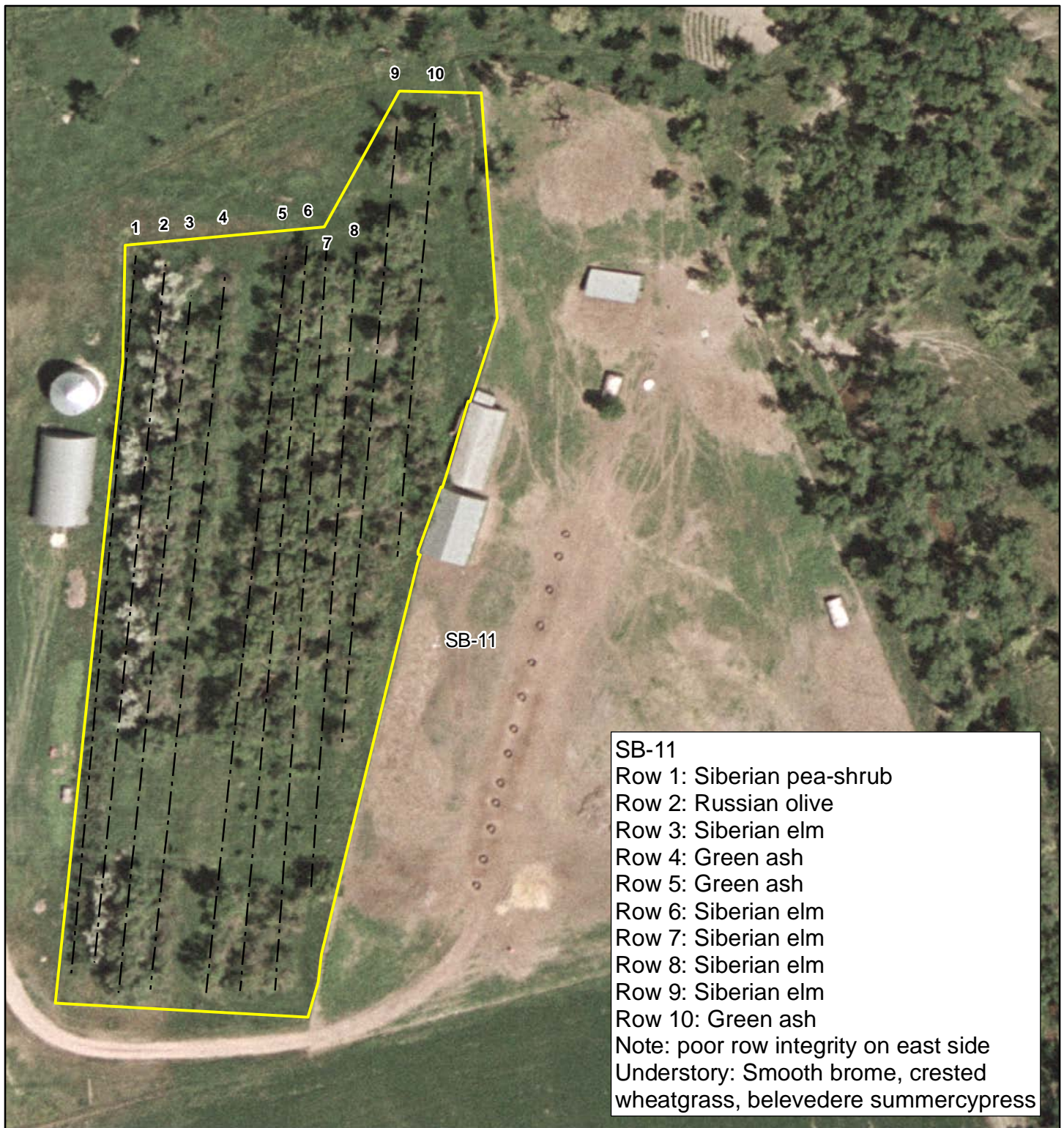


Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA		
		Denver, Colorado		
TITLE				
SHELTERBELT MAP (SB-10) PERDAEMS, JAMES D. AND ROSELLA J. NW1/4 SEC. 23 T139N R98W				
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	CHECK	AM	02/03/2010	
REVIEW	KS	02/08/2010		
FIG 2.7.2-14				

Map Document: M:\GNPD\SouthHeart\ArcMap\Permit\CH2Vegetation\SH_Veg_Shelterbelts.mxd / Modified 2/12/2010 3:22:02 PM / Plotted 2/12/2010 3:22:03 PM by areither

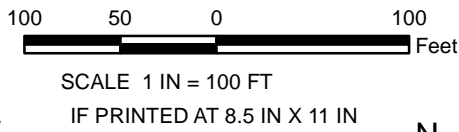
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SB-11
 Row 1: Siberian pea-shrub
 Row 2: Russian olive
 Row 3: Siberian elm
 Row 4: Green ash
 Row 5: Green ash
 Row 6: Siberian elm
 Row 7: Siberian elm
 Row 8: Siberian elm
 Row 9: Siberian elm
 Row 10: Green ash
 Note: poor row integrity on east side
 Understory: Smooth brome, crested wheatgrass, beveledere summercypress

LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



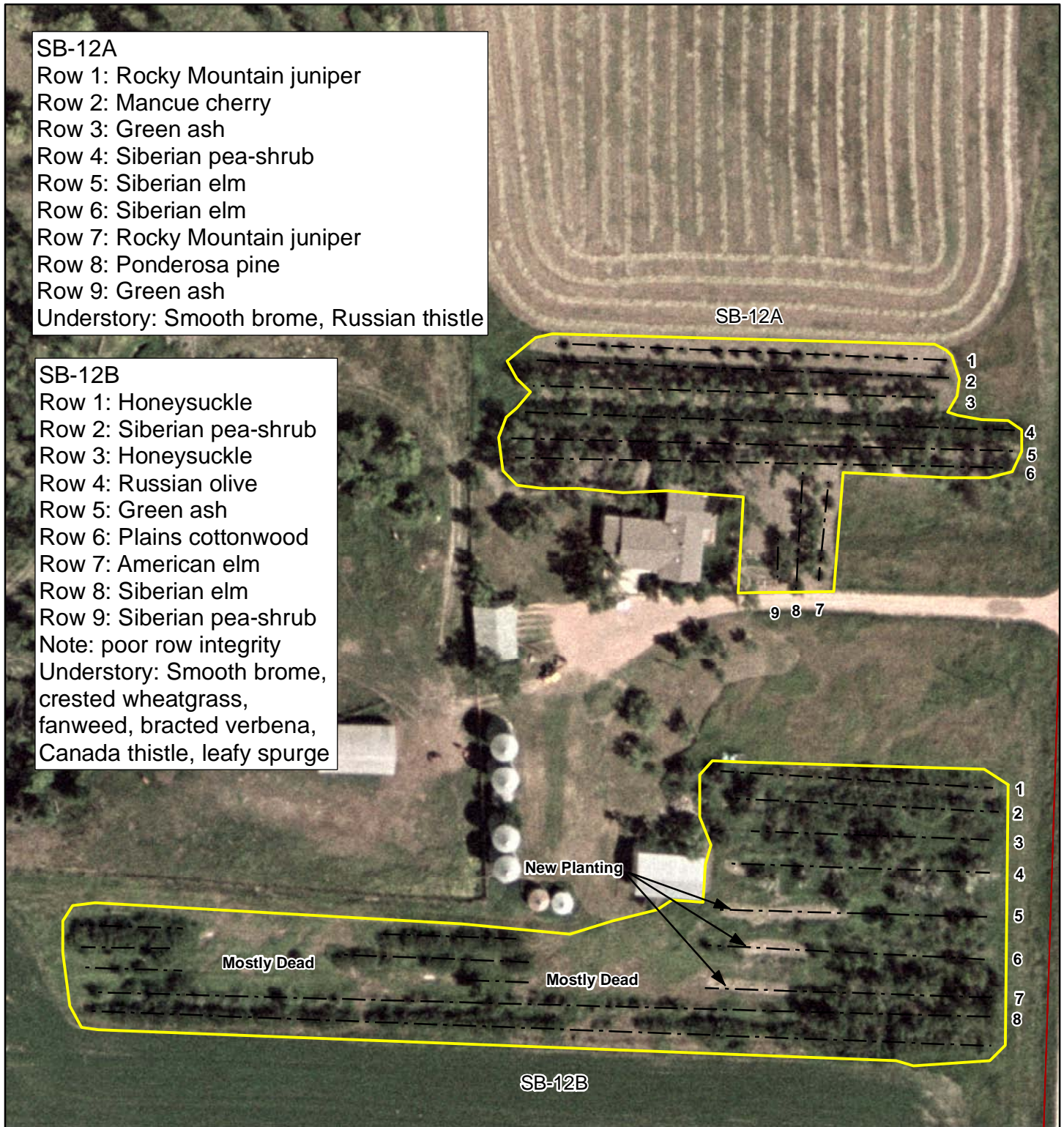
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 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA			
		Denver, Colorado			
TITLE					
SHELTERBELT MAP (SB-11) PERDAEMS, JAMES D. AND ROSELLA J. NW1/4 SEC. 23 T139N R98W					
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	GIS	AJR	02/03/2010	REV.	0
	CHECK	AM	02/03/2010	FIG 2.7.2-15	
	REVIEW	KS	02/08/2010		
WESTECH Environmental Services, Inc.					

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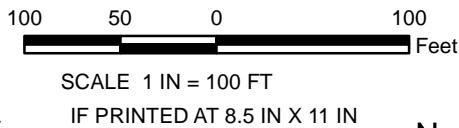
SB-12A
 Row 1: Rocky Mountain juniper
 Row 2: Mancue cherry
 Row 3: Green ash
 Row 4: Siberian pea-shrub
 Row 5: Siberian elm
 Row 6: Siberian elm
 Row 7: Rocky Mountain juniper
 Row 8: Ponderosa pine
 Row 9: Green ash
 Understory: Smooth brome, Russian thistle

SB-12B
 Row 1: Honeysuckle
 Row 2: Siberian pea-shrub
 Row 3: Honeysuckle
 Row 4: Russian olive
 Row 5: Green ash
 Row 6: Plains cottonwood
 Row 7: American elm
 Row 8: Siberian elm
 Row 9: Siberian pea-shrub
 Note: poor row integrity
 Understory: Smooth brome, crested wheatgrass, fanweed, bracted verbena, Canada thistle, leafy spurge



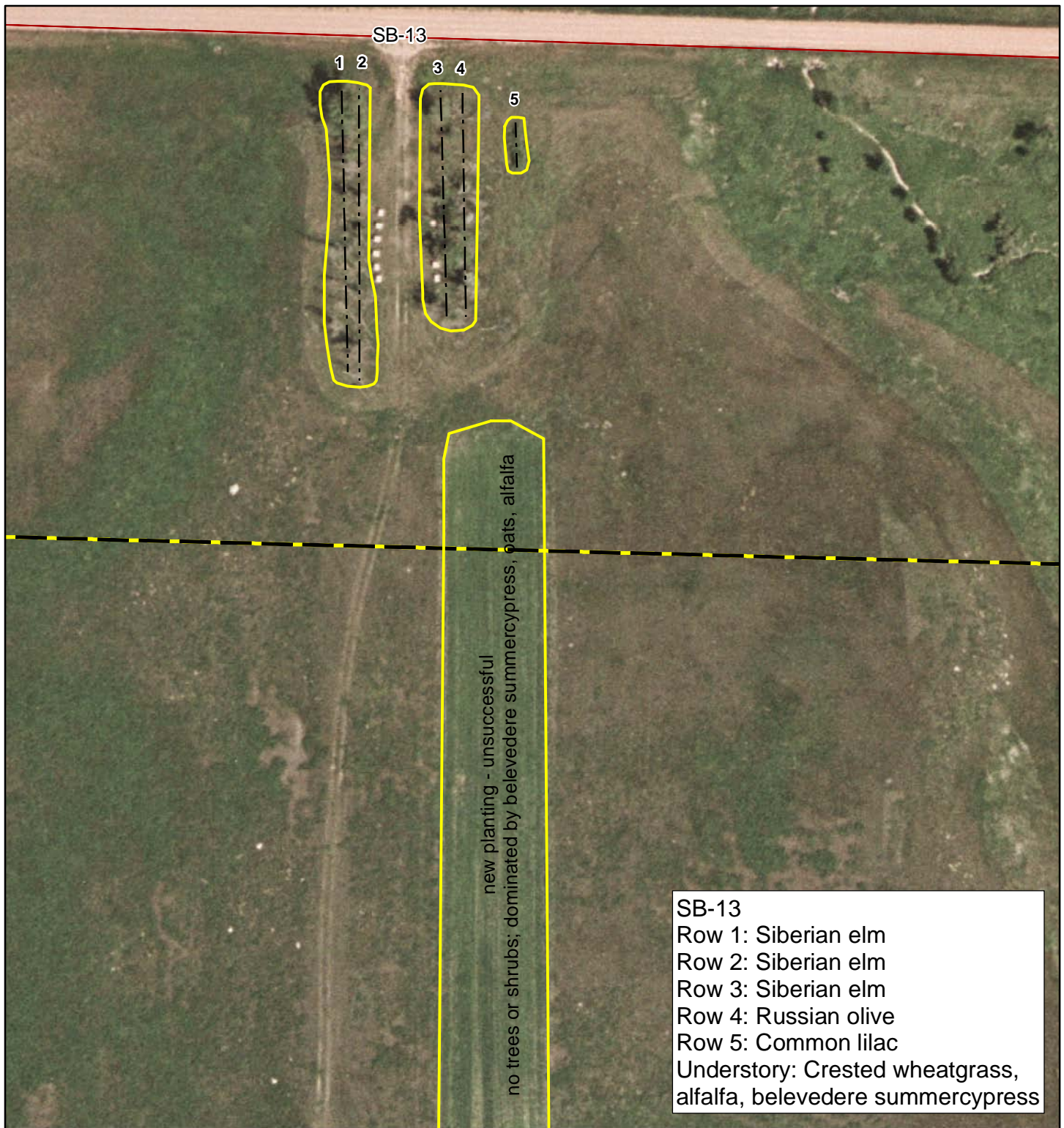
LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

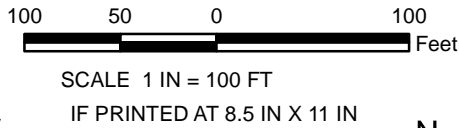
SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA																					
TITLE SHELTERBELT MAP (SB-12) PERDAEMS, JERRY F. AND SANDRA M. SE1/4 SEC. 22 T139N R98W																					
 WESTECH Environmental Services, Inc.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJECT NO.</td> <td>063-2212A</td> <td>FILE</td> <td>SH_Veg_Shelterbelts.mxd</td> </tr> <tr> <td>DESIGN</td> <td>DC</td> <td>10/25/2007</td> <td>SCALE AS SHOWN</td> </tr> <tr> <td>GIS</td> <td>AJR</td> <td>02/03/2010</td> <td>REV. 0</td> </tr> <tr> <td>CHECK</td> <td>AM</td> <td>02/03/2010</td> <td></td> </tr> <tr> <td>REVIEW</td> <td>KS</td> <td>02/08/2010</td> <td></td> </tr> </table>	PROJECT NO.	063-2212A	FILE	SH_Veg_Shelterbelts.mxd	DESIGN	DC	10/25/2007	SCALE AS SHOWN	GIS	AJR	02/03/2010	REV. 0	CHECK	AM	02/03/2010		REVIEW	KS	02/08/2010	
PROJECT NO.	063-2212A	FILE	SH_Veg_Shelterbelts.mxd																		
DESIGN	DC	10/25/2007	SCALE AS SHOWN																		
GIS	AJR	02/03/2010	REV. 0																		
CHECK	AM	02/03/2010																			
REVIEW	KS	02/08/2010																			
FIG 2.7.2-16																					



SB-13
 Row 1: Siberian elm
 Row 2: Siberian elm
 Row 3: Siberian elm
 Row 4: Russian olive
 Row 5: Common lilac
 Understory: Crested wheatgrass, alfalfa, belevedere summercypress

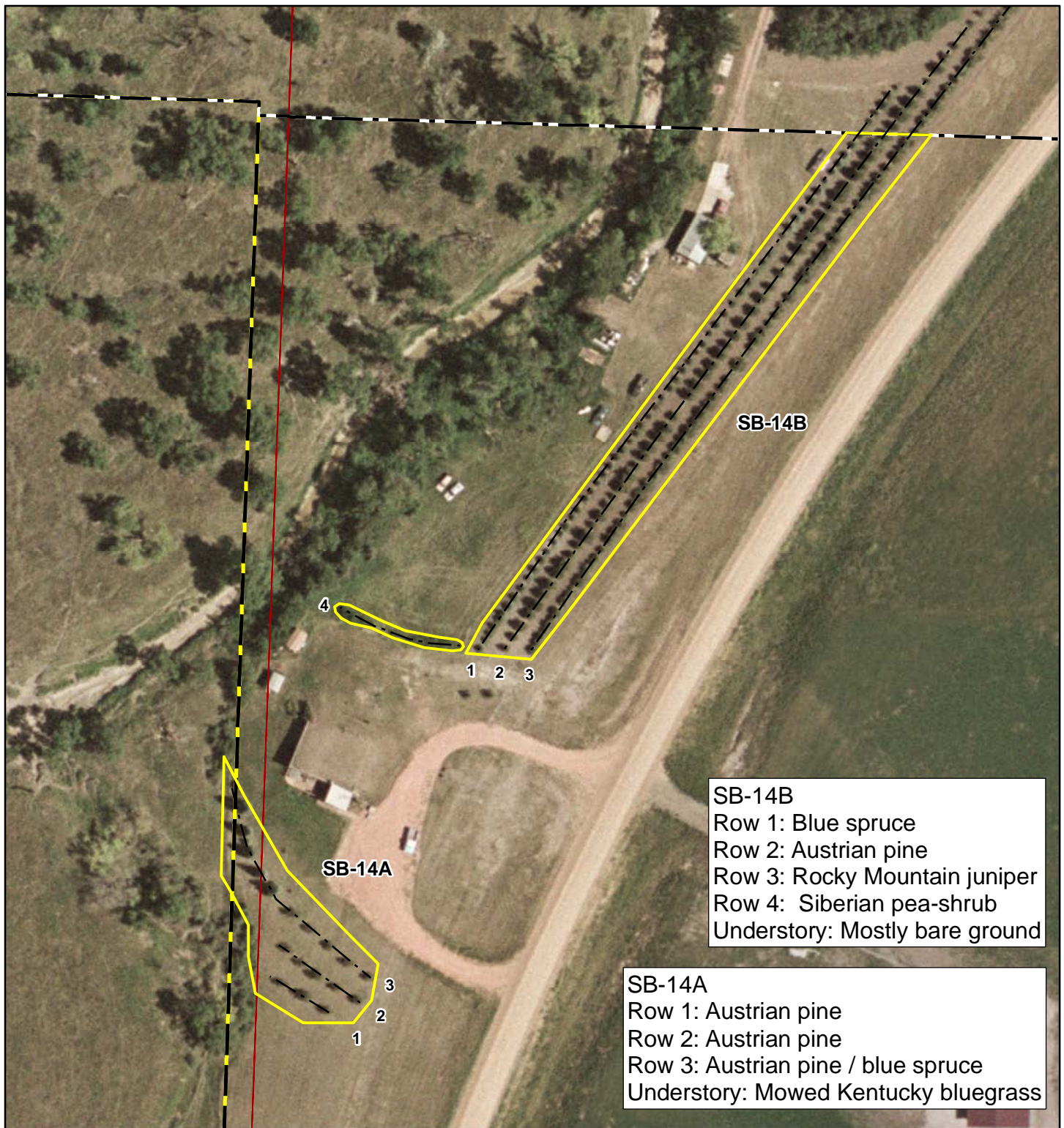
LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA						
TITLE								
SHELTERBELT MAP (SB-13) EMMIL, LEOCADIA FAMILY TRUST NE1/4 SEC. 34 T139N R98W								
PROJECT NO.		063-2212A		FILE		SH_Veg_Shelterbelts.mxd		
DESIGN	DC	10/25/2007	SCALE	AS SHOWN	REV.	0		
GIS	AJR	02/03/2010	FIG 2.7.2-17					
CHECK	AM	02/03/2010						
REVIEW	KS	02/08/2010						
 WESTECH Environmental Services, Inc.								

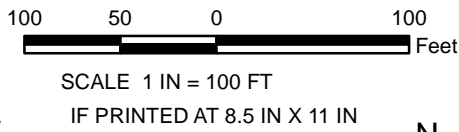


SB-14B
 Row 1: Blue spruce
 Row 2: Austrian pine
 Row 3: Rocky Mountain juniper
 Row 4: Siberian pea-shrub
 Understory: Mostly bare ground

SB-14A
 Row 1: Austrian pine
 Row 2: Austrian pine
 Row 3: Austrian pine / blue spruce
 Understory: Mowed Kentucky bluegrass

LEGEND

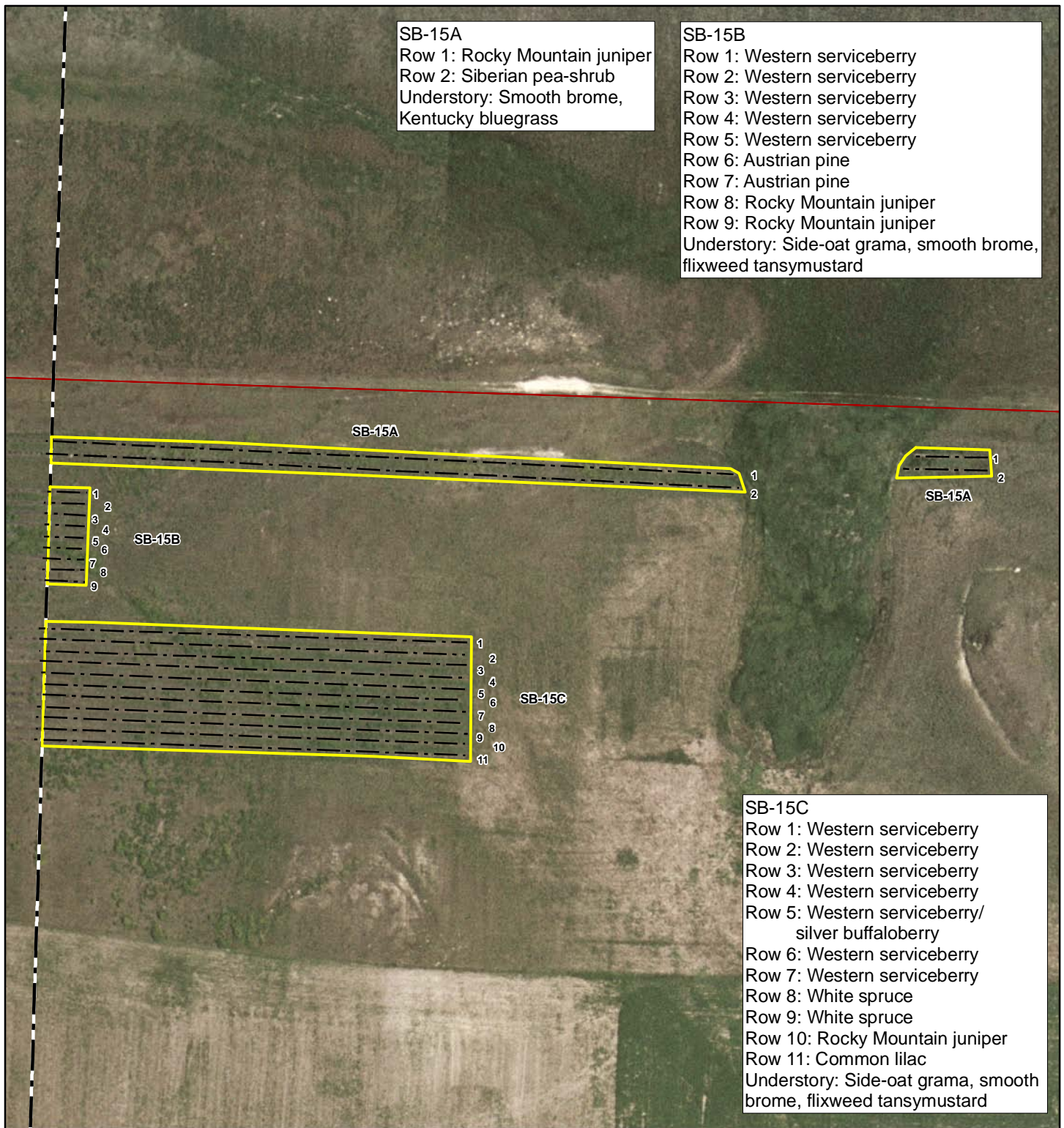
- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA					
TITLE		SHELTERBELT MAP (SB-14) WANDLER, DONALD M. AND O'BRIEN, DARBY AND RENITA SW1/4 SEC. 13 T139N R98W					
PROJECT NO.		063-2212A		FILE		SH_Veg_Shelterbelts.mxd	
DESIGN	DC	10/25/2007	SCALE	AS SHOWN	REV.	0	
GIS	AJR	02/03/2010	FIG 2.7.2-18				
CHECK	AM	02/03/2010					
REVIEW	KS	02/08/2010					
		WESTECH Environmental Services, Inc.					

Map Document: M:\GNPDI\SouthHeart\ArcMap\Permit\CH2\Vegetation\SH_Veg_Shelterbelts.mxd / Modified 2/12/2010 10:43:22 AM / Plotted 2/12/2010 10:43:22 AM by areither



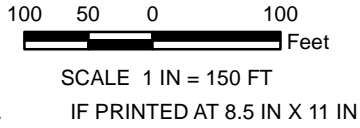
SB-15A
 Row 1: Rocky Mountain juniper
 Row 2: Siberian pea-shrub
 Understory: Smooth brome, Kentucky bluegrass

SB-15B
 Row 1: Western serviceberry
 Row 2: Western serviceberry
 Row 3: Western serviceberry
 Row 4: Western serviceberry
 Row 5: Western serviceberry
 Row 6: Austrian pine
 Row 7: Austrian pine
 Row 8: Rocky Mountain juniper
 Row 9: Rocky Mountain juniper
 Understory: Side-oat grama, smooth brome, flixweed tansymustard

SB-15C
 Row 1: Western serviceberry
 Row 2: Western serviceberry
 Row 3: Western serviceberry
 Row 4: Western serviceberry
 Row 5: Western serviceberry/silver buffaloberry
 Row 6: Western serviceberry
 Row 7: Western serviceberry
 Row 8: White spruce
 Row 9: White spruce
 Row 10: Rocky Mountain juniper
 Row 11: Common lilac
 Understory: Side-oat grama, smooth brome, flixweed tansymustard

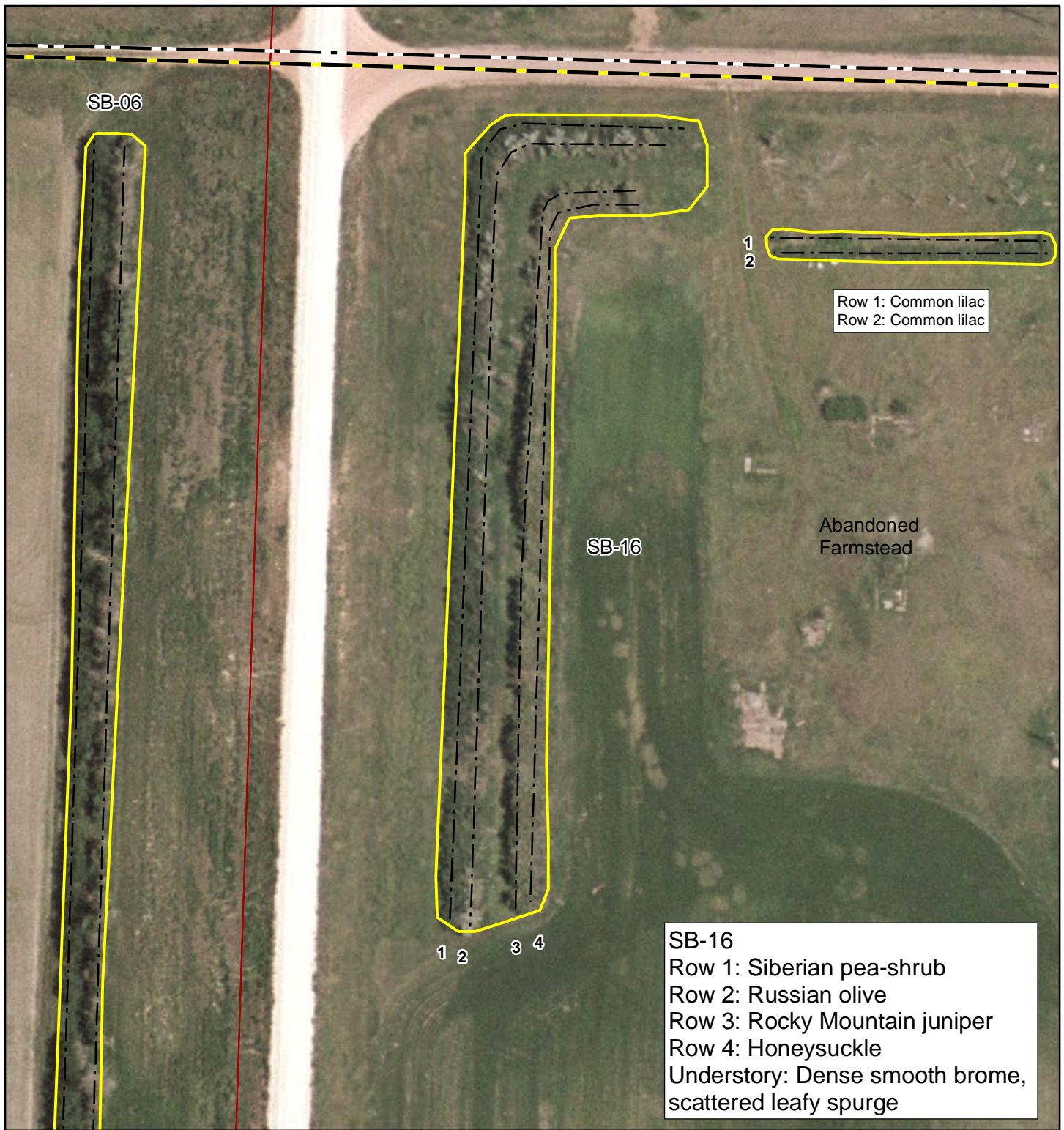
LEGEND

- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



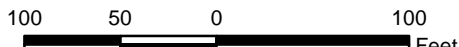
Aerial Photography: Flown 6/19/2006.
 StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA					
TITLE							
SHELTERBELT MAP (SB-015) WAGNER, GLEN R. NE1/4 SEC. 29 T139N R98W							
		PROJECT NO.	063-2212A	FILE	SH_Veg_Shelterbelts.mxd		
DESIGN	DC	10/25/2007	SCALE	AS SHOWN	REV.	0	
GIS	AJR	02/03/2010	FIG 2.7.2-19				
CHECK	AM	02/03/2010					
REVIEW	KS	02/08/2010					



LEGEND




- Study Area
- Permit Boundary
- Section
- Shelter Belt with Site ID



SCALE 1 IN = 100 FT
IF PRINTED AT 8.5 IN X 11 IN



Aerial Photography: Flown 6/19/2006.
StatePlane, North Dakota South, NAD27, Feet.

PROJECT		SOUTH HEART COAL LLC SOUTH HEART LIGNITE MINE SOUTH HEART, NORTH DAKOTA					
TITLE							
SHELTERBELT MAP (SB-16) PAVEL, ROBERT B. NE1/4 SEC. 14 T139N R98W							
PROJECT NO.		063-2212A		FILE		SH_Veg_Shelterbelts.mxd	
DESIGN	DC	10/25/2007	SCALE	AS SHOWN	REV.	0	
GIS	AJR	02/03/2010	 WESTECH Environmental Services, Inc.				
CHECK	AM	02/03/2010					
REVIEW	KS	02/08/2010					
FIG 2.7.2-20							