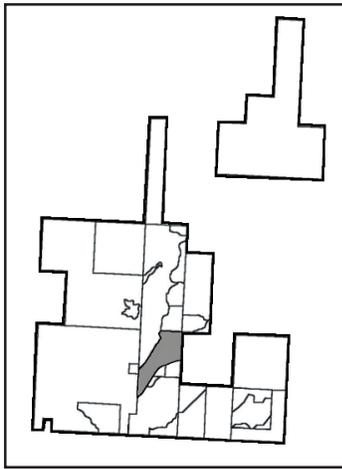


Preserve



C5c-P: Preserve, Clay County, (Section 6, Keene Township)

Aggregate Potential:

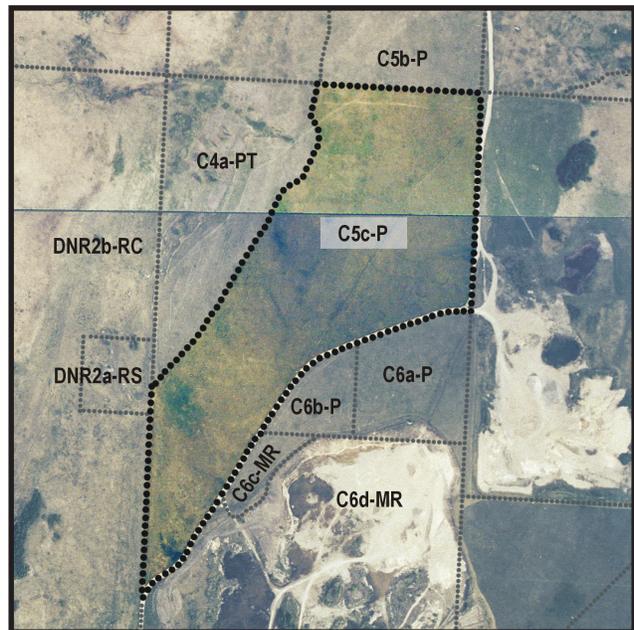
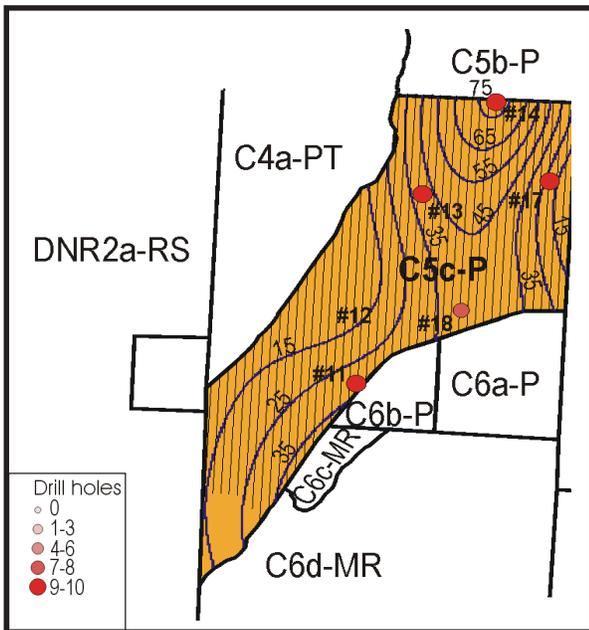
High quality and quantity resource based on industry interpretation of data.

Prairie Habitat Assessment:

High quality mesic prairie utilized by rare species, including endangered butterflies.

Fen Impact:

Mining within the water table buffer of this area would cause severe groundwater disruption to the south fen.



Drillhole Statistics

Drillhole	Gravel Thickness	Gravel Above Fen	Aggregate Ratio	Quality
11	68	9.26	34.00	10.0
12	61	-5.79	4.07	7.0
13	83	9.05	41.50	9.0
14	77	18.32	77.00	10.0
17	64	0.19	3.37	10.0
18	82	13.94	41.00	8.0

Area Statistics

Landtype	Acres
Mesic Prairie (Northwest)	73.38
<i>Total</i>	73.38

Dakota Skipper Habitat

Habitat	Acres
Confirmed Good	71.00
<i>Total</i>	71.00

Recommendations: This is a high conflict area of good gravel and critical habitat. In order to maintain habitat, prevent fragmentation, and maintain ground water delivery to the south fen, a lease, easement, or other protection agreement should be established for a minimum of 60 years. Or, the county could sell this parcel and secure alternate supplies of road gravel.

Habitat Management: Maintain prairie through prescribed burning or haying.

Timeframe: This area should be preserved and managed for prairie until the county pit is near depletion in 60 years. At that time the county's needs should be reassessed.

C6a-P: Preserve, Clay County, (Section 6, Keene Township)

Aggregate Potential:

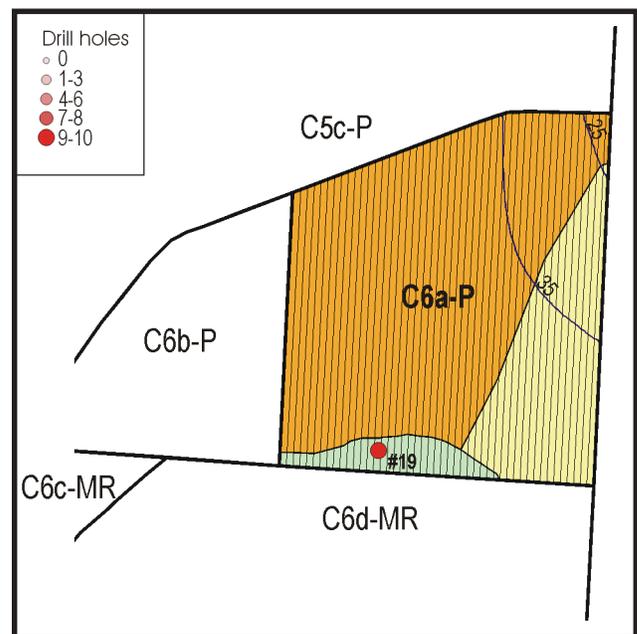
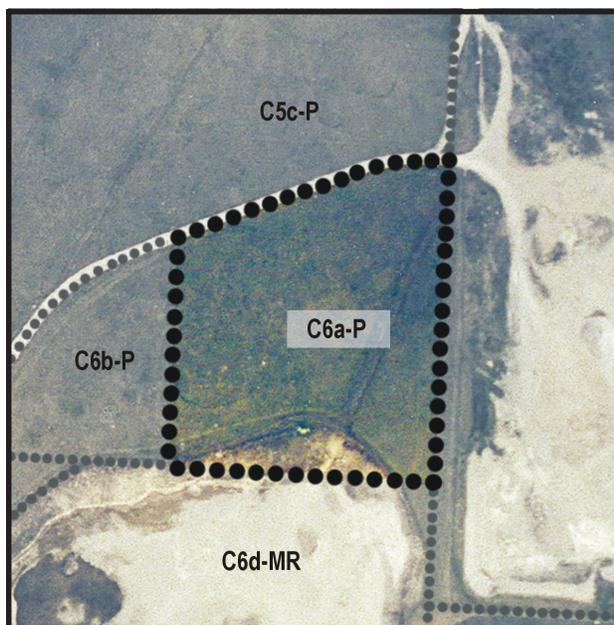
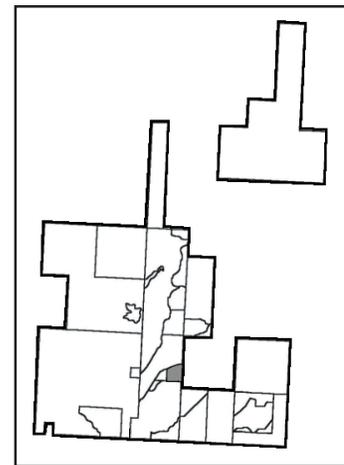
Good quality and quantity

Prairie Habitat Assessment:

High quality dry and mesic prairie; critical habitat for prairie vole and skippers. Forms critical corridor for wildlife between land north of the county pit and Bicentennial Prairie SNA. Other rare species have been sighted in this area.

Fen Impact: Mining below the watertable buffer would divert regional flow of groundwater to the south fen.

Preserve



Recommendations:

This area provides a link between butterfly habitat north of the county mine and Bicentennial Prairie SNA. It also provides habitat for other rare species and should be preserved by lease, easement, or other protective agreement for a minimum of 35 years.

Access: Limit the haul road width to its current alignment and dimension.

Habitat management: Maintain and enhance prairie by prescribed burning or mowing.

Timeframe: This area should be preserved for 35 years. The county will better understand the availability of road gravel from the private market and the lease value of the county mine.

Area Statistics

	Landtype	Acres
	Dry Prairie (Northwest) Sand-Gravel Subtype	3.26
	Mesic Prairie (Northwest)	9.92
	Mine Operation	0.75
<i>Total</i>		13.93

Drillhole Statistics

Drillhole	Gravel Thickness	Gravel Above Fen	Aggregate Ratio	Quality
19	77	NA	38.50	9.0

Dakota Skipper Habitat

Habitat	Acres	
Confirmed Good	13.18	
<i>Total</i>		13.18

Numbers on dotted contours represent the thickness of aggregate per foot of overburden.

Drillhole symbols represent the committee's estimate of the deposit quality. Quality increases with circle size and saturation.