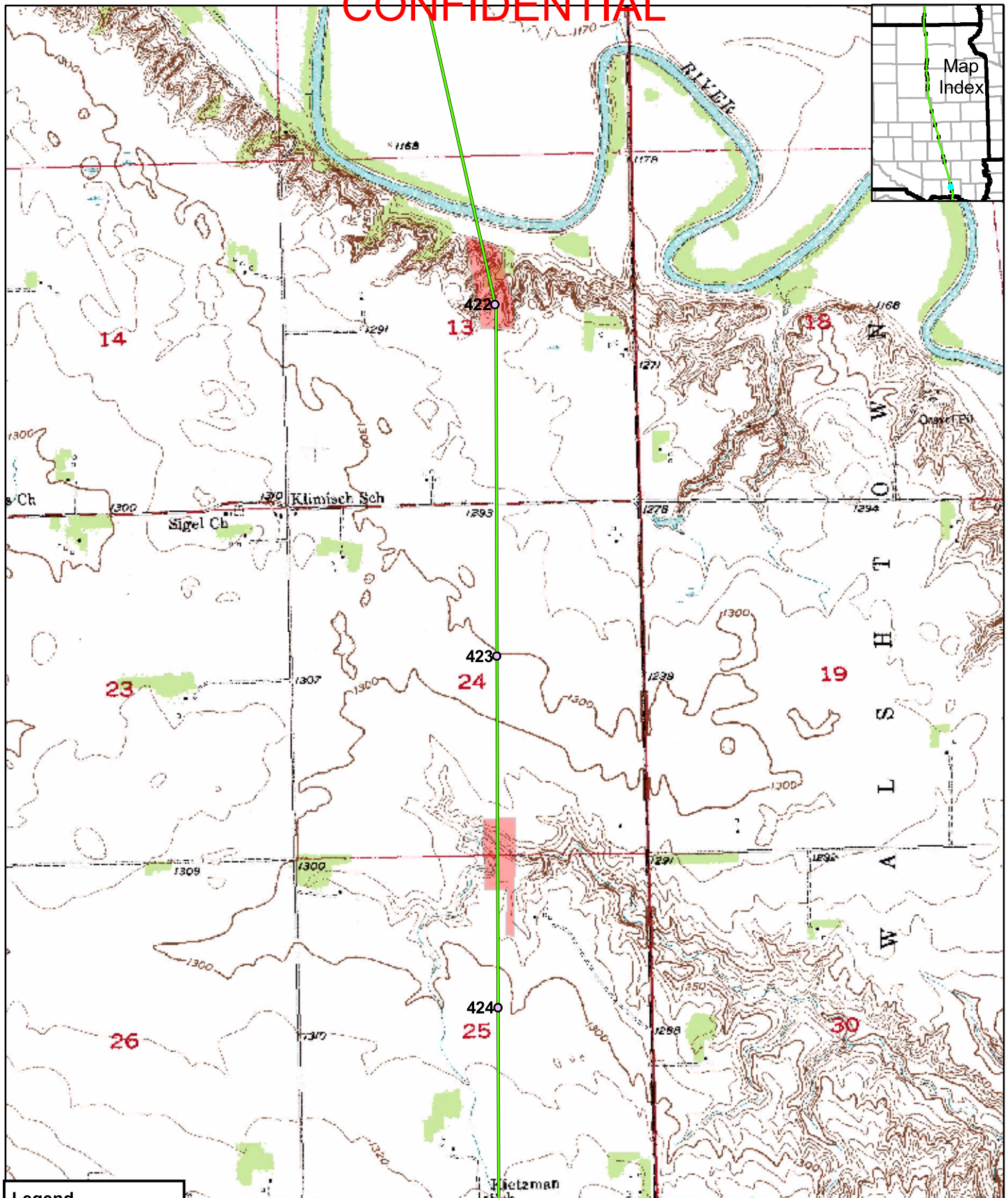


CONFIDENTIAL



Feature TDH1SDYA002: Heavily grazed pasture with few forbs, which is dominated by blue grama (*Bouteloua gracilis*).

CONFIDENTIAL



Legend

- Mileposts
- Proposed Centerline
- Surveyed Grasslands
- State Boundary
- County Boundary

Keystone Pipeline Project



0 1,000 2,000 Feet

Map 20 of 21
Surveyed
Grasslands

CONFIDENTIAL

Feature ID	Survey Date	Start MP	End MP	County	State	Survey Type	Habitat Quality	Suitable T&E Habitat?
TDH1SDYA001	9/14/2006	426.7	428.9	Yankton	SD	Site Visit	Low	No

Site Summary: This area is very heavily infested with plumeless thistle (*Carduus acanthoides*), especially in the lowland swale areas. The slopes and uplands are dominated by a mix of exotic pasture grasses, especially by smooth brome (*Bromus inermis*) and crested wheat grass (*Agropyron cristatum*). Native grasses and forbs occur in only a few areas.



Feature TDH1SDYA001: Smooth brome (*Bromus inermis*) dominated pasture.

CONFIDENTIAL



Feature TDH1SDYA001: Overview of site to the south.



Feature TDH1SDYA001: Plumeless thistle (*Carduus acanthoides*) is abundant in the swales.

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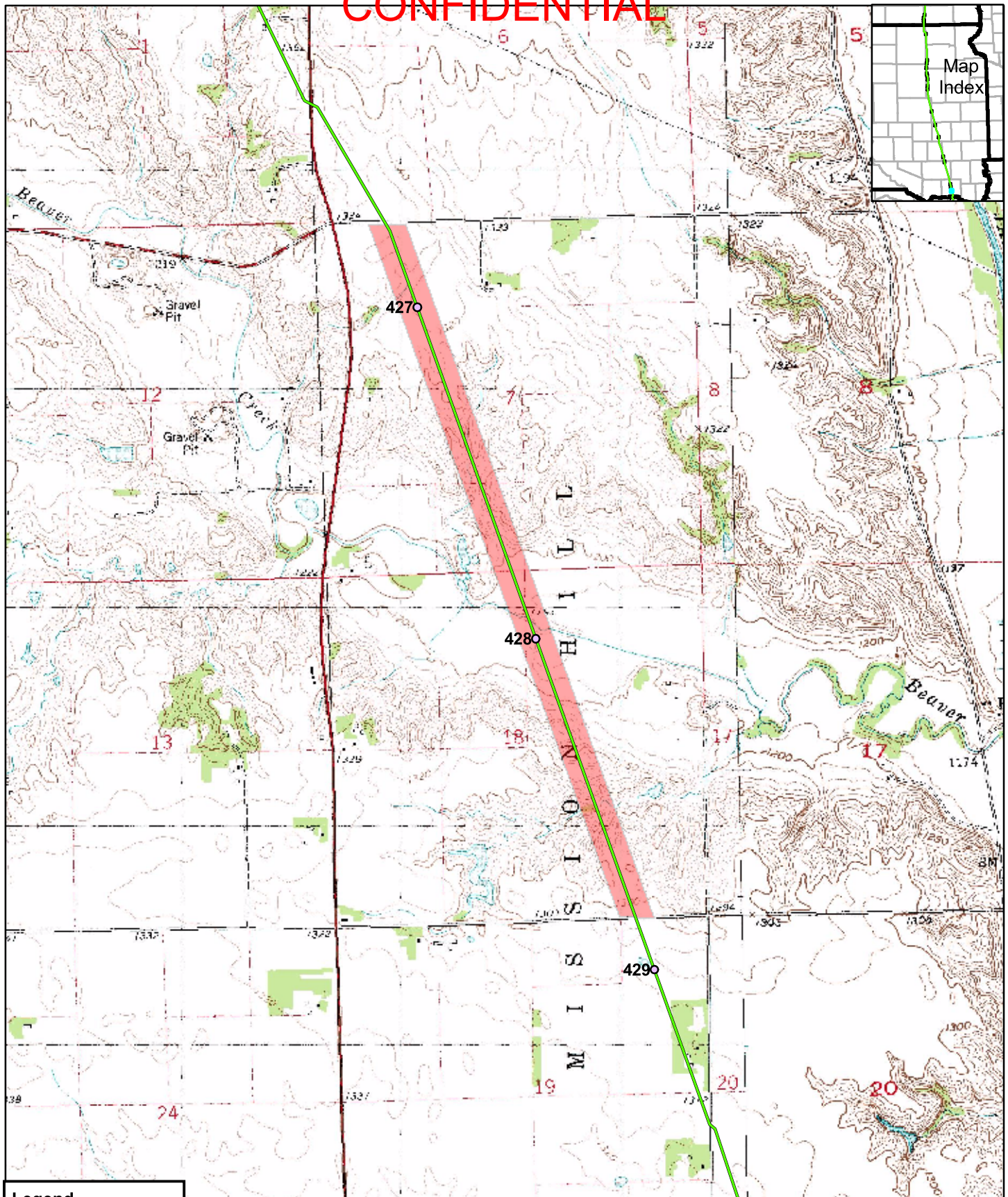


Feature TDH1SDYA001: View of a stock pond to the east of center line



Feature TDH1SDYA001: Smooth brome (*Bromus inermis*) at the southern edge of this site.

CONFIDENTIAL



Legend

- Mileposts
- Proposed Centerline
- Surveyed Grasslands
- State Boundary
- County Boundary

Keystone Pipeline Project



0 1,000 2,000
Feet

Map 21 of 21
Surveyed
Grasslands

Appendix II

Plant Species List

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Plant species identified in the three southernmost counties in North Dakota (Ransom, Sargent, and Dickey) and in all South Dakota counties between September 11 and September 16, 2006. These are species that occur along the Keystone pipeline corridor. This list could easily be expanded if these areas were visited in the spring or early summer. Plants with an asterisk (*) are not native to this region.

SCIENTIFIC NAME

COMMON NAME

FERNS AND FERN ALLIES

Equisetaceae / Horsetail family

Equisetum laevigatum A. Braun

smooth scouring rush, horsetail

GYMNOSPERMS

Cupressaceae /Juniper or Cedar family

Juniperus scopulorum Sarg.

Sabina, Rocky Mtn juniper, cedar

ANGIOSPERMS: Monocotyledons and Dicotyledons

Aceraceae / Maple family

Acer negundo L.

box elder

Amaranthaceae / Pigweed family

Amaranthus albus L.

**Amaranthus blitoides* Watson

**Amaranthus retroflexus* L.

tumble pigweed
prostrate pigweed
redroot pigweed

Anacardiaceae / Poison Ivy or Mango family

Rhus glabra L.

smooth sumac

Apocynaceae / Dogane family

Apocynum cannabinum L.

Indian hemp, dogbane

Asclepiadaceae / Milkweed family

Asclepias speciosa Torrey

Asclepias stenophylla A. Gray

showy milkweed
whorled milkweed

Asteraceae / Sunflower family

Achillea millefolium L.

Ambrosia psilostachya DC.

**Ambrosia trifida* L. H-12099

Antennaria parvifolia Nutt.

**Arctium minus* (J. Hill) Bernhadi

**Artemisia absinthium* L.

Artemisia dracunculus (L.) Poljakov

Artemisia frigida Torr.

Artemisia ludoviciana Nutt.

Aster cf. falcatus Lindl.

Aster cf. sericeus Vent

Bidens cernua L.

Brickellia eupatorioides (L.)

Carduus acanthoides* L. **Noxious

Carduus nutans* L. **Noxious

Cirsium arvensis* (L.) Scop. **Noxious

Cirsium undulatum (Nutt.) Sprengel

Conyza canadensis (L.) Cronquist

Coreopsis tinctoria Nutt.

Crepis spp.

yarrow, milenrama
western ragweed
giant ragweed
pussytoes
burdock
wormwood
wild tarragon
fringed sage
white sage, LA sage
frost flower
silky aster
nodding begger-ticks
large-flower brickell-bush
plumeless thistle
musk thistle
Canadian thistle
wavy-leaf thistle
horseweed
plains coreopsis
hawksbeard

CONFIDENTIAL

Asteraceae / Sunflower family (continued)

Echinacea angustifolia De Candolle
Euthamia graminifolia (L.) Nutt.
Grindelia squarrosa (Pursh) Dun.
Helianthus annuus L.
Helianthus maximiliani Schrad.
Helianthus petiolaris Nutt.
Heterotheca villosa (Pursh) Shinnery
Iva xanthifolia Nutt.
Lactuca spp.
Liatris ligulistylis (A. Nelson) K. Schum,
Liatris mucronata DC.
Liatris punctata Hook.
Lygodesmia juncea (Pursh) Greene
Ratibida columnifera (Nuttall) Wootton & Standley
Silphium laciniatum L.
Solidago canadensis L.
Solidago missouriensis Nuttall
Solidago spp.
Taraxacum officinale Weber
Tragopogon dubius Scop
Vernonia spp.
**Xanthium strumarium* Nutt.

Echinacea, black sampson
Euthamia
Curly-top gumweed, rosinweed
common sunflower
Maximilian sunflower
plains sunflower
golden aster
marsh elder
Blue lettuce
blazing star
cusp blazing star
blazing star, gayfeather
skeletonweed, goldenweed
prairie coneflower, Mexican hat
Compass plant
Canada goldenrod
Missouri goldenrod
goldenrod
dandelion
goat's beard, yellow salsify
ironweed
Cocklebur, porcupine eggs

Boraginaceae / Four-o'clock family

Onosmodium molle Michaux.

Marbleseed, stoneseed,

Cactaceae / cactus family

Coryphantha vivipara (Nutt.) Britt. & Rose

pincushion cactus

Cannabaceae / Hemp Family

**Cannabis sativa* L.

hemp, marijuana

Caprifoliaceae / Honeysuckle family

Sambucus canadensis L.
Symphoricarpos occidentalis Hook.

common elderberry
snowberry

Chenopodiaceae / Goosefoot family

**Chenopodium album* L.
Chenopodium glaucum L.
Chenopodium leptophyllum (Moq.)
Nutt. ex. S. Wats
**Kochia scoparia* (L.) Schrad.
**Salsola tragus* L.
[S. australis, S. iberica & S. kali]

lamb's quarters, goosefoot
oak-leaved goosefoot
prairie goosefoot

kochia, alkaliweed, fireweed
Russian thistle, tumbleweed

Convolvulaceae / Morning glory family

**Convolvulus arvensis* L.

bindweed

Cyperaceae / Sedge family

Carex spp.
Schoenoplectus pungens (M. Vahl) Palla
Schoenoplectus validus

Several sedges
common threesquare bulrush
softstem bulrush

Elaeagnaceae / Olive family

**Elaeagnus angustifolia* L

Russian olive

CONFIDENTIAL

Euphorbiaceae / Spurge family

Agaloma marginata (Pursh) Love & Love
Chamaesyce spp.
Euphorbia esula L. **NOXIOUS**
Poinsettia dentata (Michaux) Klotsch & Gracke

snow-on-the-mountain
 spurge (several species)
 leafy spurge
 toothed spurge

Fabaceae / Legume Family

Amorpha canescens Pursh
Desmanthus illinoensis (Michx.) MacM,
Glycyrrhiza lepidota Pursh.
Lotus cf. purshianus Clem & Clem
 **Medicago lupulina* L.
 **Medicago sativa* L.
 **Melilotus albus* Medikus
 **Melilotus officinalis* (L.) Lam,
Pedimelum argophyllum (Pursh) J. W.Grimes
 **Trifolium pratense* L.
 **Trifolium repens* L.

leadplant
 Illinois bundleflower
 wild licorice
 prairie trefoil, deer vetch
 black medic, hop clover
 alfalfa
 white sweet clover
 yellow sweet clover
 silver scurf-pea
 red clover
 white clover, Dutch or Ladino clover

Juncaceae / Rush family

Juncus arcticus Willd. var. *balticus*
 (Willd.) Trautv. [J. *balticus*]
Juncus nodosus L.
Juncus spp.

Baltic rush
 knotted rush
 Rush

Juncaginaceae / Arrowgrass family

Triglochin cf. martima L. **POISONOUS**

Arrowgrass (in fringed orchid habitat)

Lamiaceae / Mint Family

Lycopus americanus Muhlenberg ex W. Barton
 **Nepeta cataria*

American bugleweed
 catnip

Lemnaceae / Duckweed family

Lemna minor L

duckweed

Malvaceae / Mallow family

**Abutilon theophrasti* Medic
 **Hibiscus trionum* L.
 **Malva neglecta* L.
Sphaeralcea coccinea (Nutt.) Rydb.

velvet leaf
 Flower-of-an-hour
 Cheeseweed
 scarlet globemallow, cowboy's delight

Moraceae / Mulberry family

**Morus alba* L

white mulberry

Nyctaginaceae / Four-O'clock Family

Mirabilis hirsuta (Pursh) MacMill.
Mirabilis spp.

hairy four o'clock
 four o'clock

Onagraceae / Evening Primrose Family

Gaura villosa Torrey

hairy gaura

Orchidaceae / Orchid Family

Spiranthes magnicamphorum Sheviak

Great Plains Lady's tresses

Plantaginaceae / Plantain Family

Plantago lanceolata L.

English plantain