Greenway Bike Trail
El Dorado County, California

Van Sickle South Study Area

Appendix B6. Preliminary Delineation of Potential Section 404 Jurisdiction

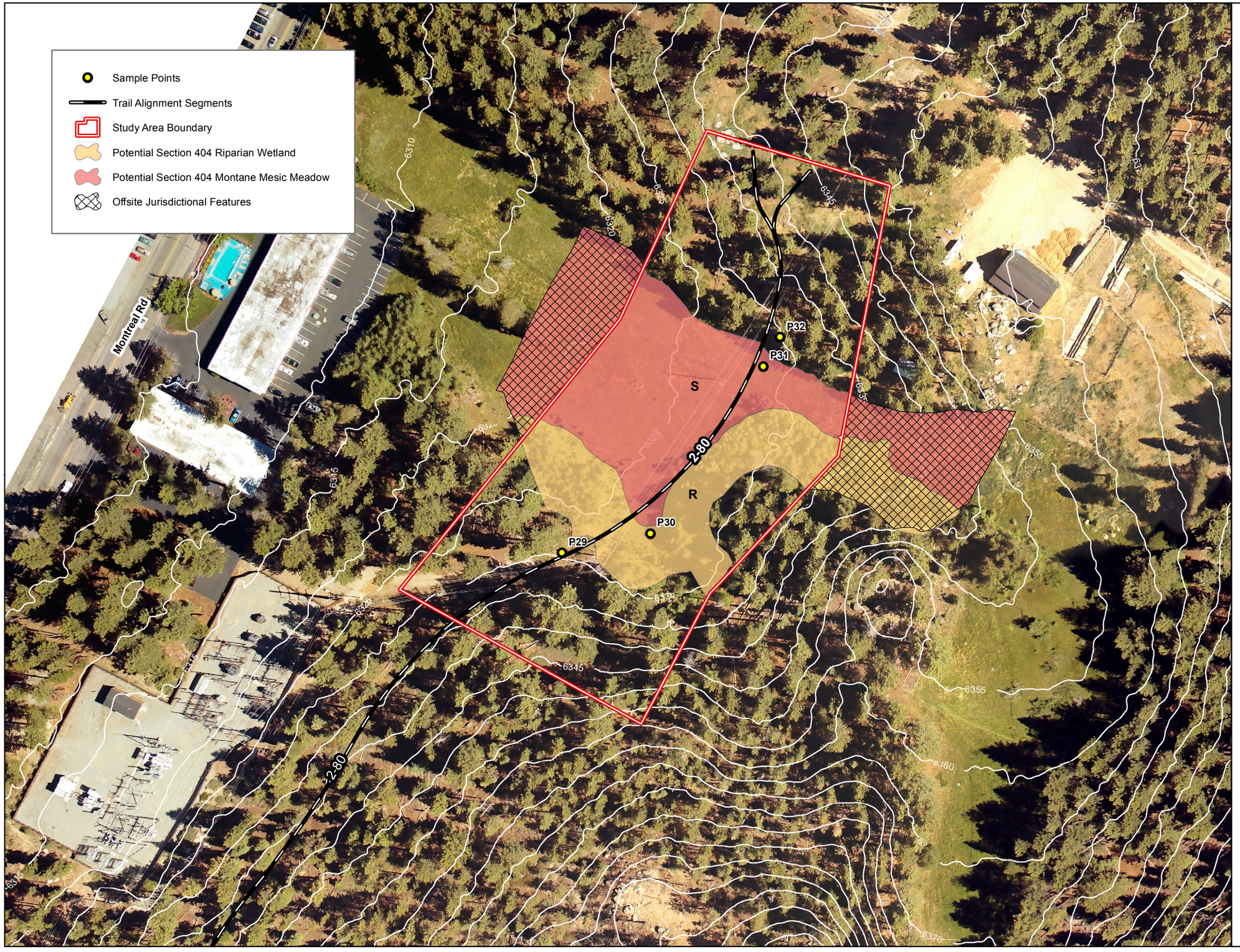
N
W E
S

0 25 50 100 150 Feet

1:1,200
1 inch = 100 feet

Map by: Jennifer DeMartino
Delineation by: Amy Parravano
Date: January 20, 2011.

HAUGE BRUECK
ASSOCIATES



Greenway Bike Trail
El Dorado County, California

Van Sickle North Study Area

Appendix B7. Preliminary Delineation of Potential Section 404 Jurisdiction

N
W E
S

0 25 50 100 150 Feet

1:1,200
1 inch = 100 feet

Map by: Jennifer DeMartino
Delineation by: Amy Parravano
Date: January 20, 2011.

HAUGE BRUECK ASSOCIATES

Appendix C: List of Plant Species Observed During the Delineation

Appendix C. Plant species observed within the Project Site on July 20, August 3, 4, 11, and 25, and November 2, 2010 (Reed 1988, Region 10)

Scientific Name	Common Name	Wetland Indicator
Abies concolor	white fir	NL
Achillea millefolium	yarrow	FACU
Actaea rubra	baneberry	NL
Adenocaulon bicolor	trail plant	NL
Agoseris glauca var. *glauca*	mountain dandelion	FAC
Agoseris grandiflora	large flowered mountain dandelion	NL
Agoseris retrorsa	Spear leaf mountain dandelion	NL
Agrostis scabra	red top	FAC
Agrostis stolonifera	creeping bentgrass	FACW
Arctostaphylos nevadensis	pine mat manzanita	NL
Arctostaphylos patula	green manzanita	NL
Arnica chamissonis ssp. *foliosa*	meadow arnica	FACW
Arnica longifolia	long-leaf arnica	FACW
Arnica mollis	hairy arnica	FAC
Artemisia douglasiana	mugwort	FACW
Artemisia tridentata ssp. *vaseyana*	Great Basin sagebrush	NL
Aster ascendens	alpine aster	NL
Aster occidentalis	Western aster	FAC
Bromus inermis	smooth brome	NL
Bromus tectorum	cheatgrass	NL
Calocedrus decurrens	incense cedar	NL
Calyptridium umbellatum	pussy paws	NL
Carex athrostachya	slender beak sedge	FACW
Carex douglasii	Douglas sedge	FACU
Carex microptera	small wing sedge	FAC
Carex nebrascensis	Nebraska sedge	OBL
Carex pachystachya	thick-headed sedge	FACW
Carex praegracilis	clustered field sedge	FACW
Carex subfusca	rusty slender sedge	FAC
Carex utriculata	beaked sedge	FACW
Ceanothus cordulatus	mountain white thorn	NL
Ceanothus velutinus	tobacco brush	NL
Cerastium fontanum ssp. *vulgare*	mouse-ear chickweed	NL
Cicorium intybus	chicory	NL
Cirsium vulgare	bull thistle	FACU
Conyza canadenssis	horseweed	FAC
Dactylis glomerata	orchard grass	FACU
Deschampsia cespitosa	hairgrass	FACW
Descurainia californica	tansy mustard	FACU
Elymus elymoides	squirreltail grass	NL
Elymus glaucus	blue wildrye	NL
Epilobium angustifolium ssp. *circumvagum*	fireweed	FAC
Epilobium ciliatum	ciliate willowherb	FACW
Equisetum arvense	common horsetail	OBL
Erigeron breweri	Brewer's aster	NL
Erigeron peregrinus	wandering fleabane	FACW
Eriogonum nudum var. nudum	naked buckwheat	NL
Eriogonum umbellatum var.	sulfur buckwheat	NL

Scientific Name	Common Name	Wetland Indicator Status
furcosum		
Festuca rubra	red fescue	FAC
Fragaria virginiana	wild strawberry	FAC
Galium trifidum	small bedstraw	OBL
Gayophytum diffusum	diffuse gayophytum	NL
Heracleum lanatum	cow parsnip	FACU
Hieracium albiflorum	white flower hawkweed	NL
Hordeum brachyantherum	meadow barley	FACW
Horkelia fusca	dusky horkelia	NL
Hypericum anagalloides	Tinker's penny	OBL
Juncus balticus	Baltic rush	FACW
Juncus nevadensis	Nevada rush	FACW
Juncus orthophyllus	straight-leaf rush	FACW
Lathryus lanszwertii var. *lanszwertii*	Nevada sweet pea	NL
Leymus triticoides	creeping wildrye	FAC
Linum lewisii	Lewis' blue flax	NL
Lotus corniculatus	birdsfoot trefoil	FAC
Lotus nevadensis var. *nevadensis*	Sierra Nevada lotus	NL
Lotus purshianus	Spanish clover	NL
Lupinus andersonii	Anderson's lupine	NL
Lupinus breweri	Brewer's lupine	NL
Lupinus polyphyllus	sarge-leaved lupine	FACW
Luzula subcongesta	woodrush	NL
Madia elegans ssp. *elegans*	common madia	FACU-
Madia glomerata	tarweed	NL
Melica stricta	melicgrass	NL
Melilotus albus	white sweet clover	FAC
Mimulus guttatus	yellow monkeyflower	OBL
Paeonia brownii	Brown's peony	NL
Penstemon rydbergii	Rydberg's beardstongue	FAC
Perideridia bolanderi	Bolander's yampah	NL
Phacelia hastata	silverleaf phacelia	NL
Phleum alpinum	alpine timothy	FACW
Phleum pratense	timothy	FACU
Pinus contorta ssp. *murryana*	lodgepole pine	FAC
Pinus jeffreyi	Jeffrey pine	NL
Poa pratensis	Kentucky bluegrass	FACU
Poa secunda	Sanberg's bluegrass	NL
Populus tremuloides	quaking aspen	FAC
Potentilla glandulosa	sticky cinquefoil	FAC
Potentilla gracilis	slender cinquefoil	FACW
Purshia tridentata	bitterbrush	NL
Ranunculus flammula	buttercup	FACW
Ranunculus occidentalis	Western buttercup	FACW
Ribes cereum	white squaw currant	NL
Ribes nevadense	Sierra currant	NL
Rosa woodsii	wood rose	FAC
Rubus parviflorus	thimbleberry	FAC
Rumex acetosella	sheep sorrel	FAC
Rumex salicifolius	willow dock	OBL
Salix geyeriana	Geyer's willow	OBL

Scientific Name	Common Name	Wetland Indicator Status
Salix lemmonii	Lemmon's willow	OBL
Salix lucida ssp. *lasiandra*	shining willow	NI[1]
Salix scouleriana	Scouler's willow	FACW
Scirpus microcarpus	small fruit bulrush	OBL
Sidalcea oregana ssp. *spicata*	Oregon checkermallow	OBL
Smilacina stellata	false Solomon's seal	FAC
Solidago canadensis	Canada goldenrod	FACU
Stachys albens	whitestem hedgenettle	OBL
Symphoricarpos mollis	creeping snowberry	FACU
Taraxacum officionale	dandelion	FACU
Tragapogon dubius	goat's beard	NL
Trifolium longipes	long-leaf clover	FACW
Urtica dioica	stinging nettle	FACW
Veratrum californicum	corn lily	OBL
Verbascum thapsus	mullein	NL
Veronica americana	American speedwell	OBL
Wyethia mollis	mule's ears	NL

[1] *This species is typically associated with wetland and riparian habitats in the Tahoe Basin and therefore was considered to be classified as FACW for the purpose of this delineation.*

Appendix D: Representative Photographs of the Study Area

Photo 1: View of actively flowing Trout Creek with a mosaic of floodplain wetlands and riparian wetlands, facing north. August 1, 2010.

Photo 2: View of upland sample point P5 at Trout Creek site, facing east. August, 2010.

Photo 3: View of upland forested area along Blackbart. Ave at Trout Creek site, facing north. November 2, 2010

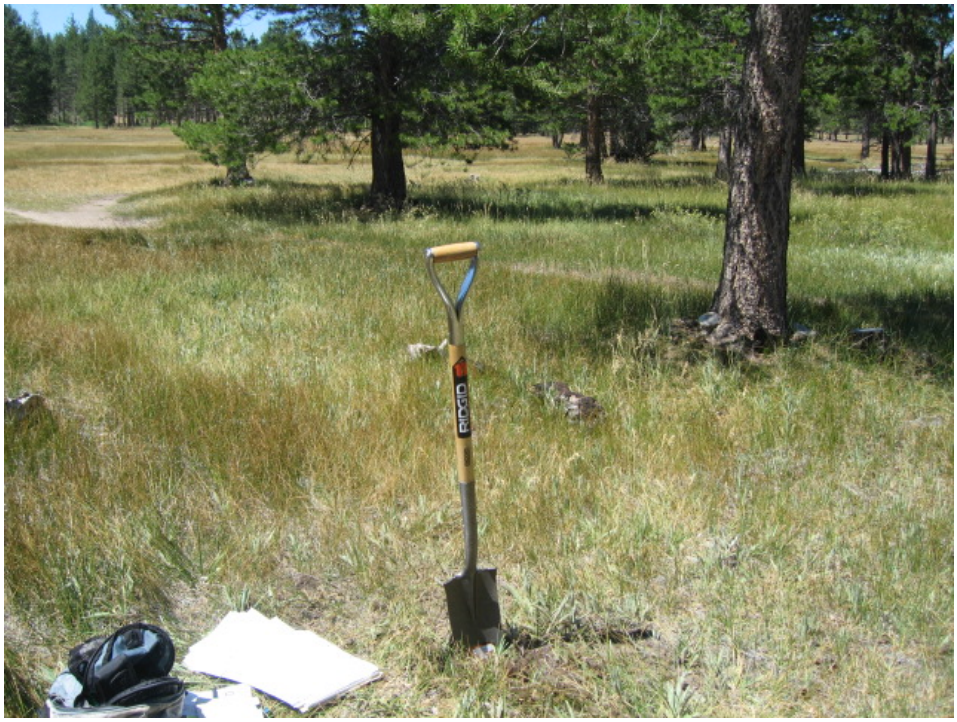


Photo 4: View of sample point P18, collected outside of wetland boundary at Bijou Meadow site, facing west. August 2, 2010.

Photo 5: Overview of montane dry meadow feature mapped within Bijou Meadow, facing southwest. August 2, 2010

Photo 6: View of wetland sample point P9 in Bijou Meadow, facing southeast. August 2, 2001.

Photo 7: View of upland sample point P16 at within a corner lot located at intersection of Bruce Dr. and Becky Dr., facing north. August 2, 2010.

Photo 8: View of upland sample point P20 outside of montane mesic wetland boundary facing south. August 23, 2010.

Photo 9: View of wetland sample point P18 within montane mesic meadow at Herbert Avenue South site (facing southwest). August 23, 2010.

Photo 10: View of wetland sample point P24 at Herbert Avenue North site (facing west). August 23, 2010.

Photo 11: View of upland area along Pioneer Trail at Herbert Avenue North site, facing southwest. August 23, 2010.

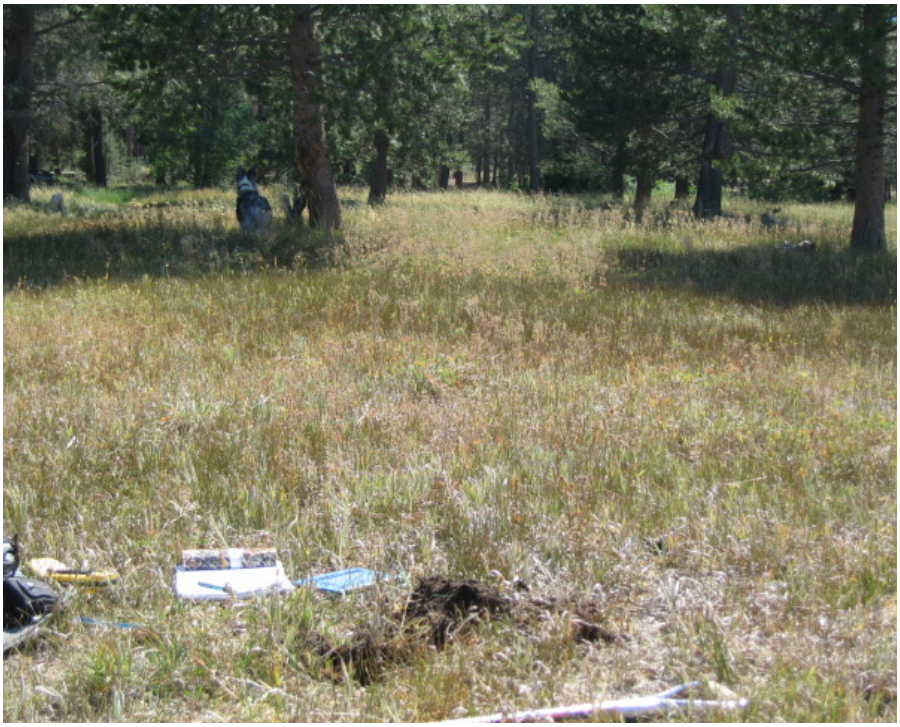


Photo 12: View of sample point P25 collected within montane mesic meadow area at Van Sickle South site, just south of Chonokis road, facing north. August 9, 2010.

Photo 13: View of sample point P31 collected within montane mesic meadow at Van Sickle North site at Stateline, facing southeast. August 10, 2010.

Photo 14: Example of redoximorphic features, occurring within the soil matrix as iron masses. August 10, 2010.