INFORMATION HANDOUT

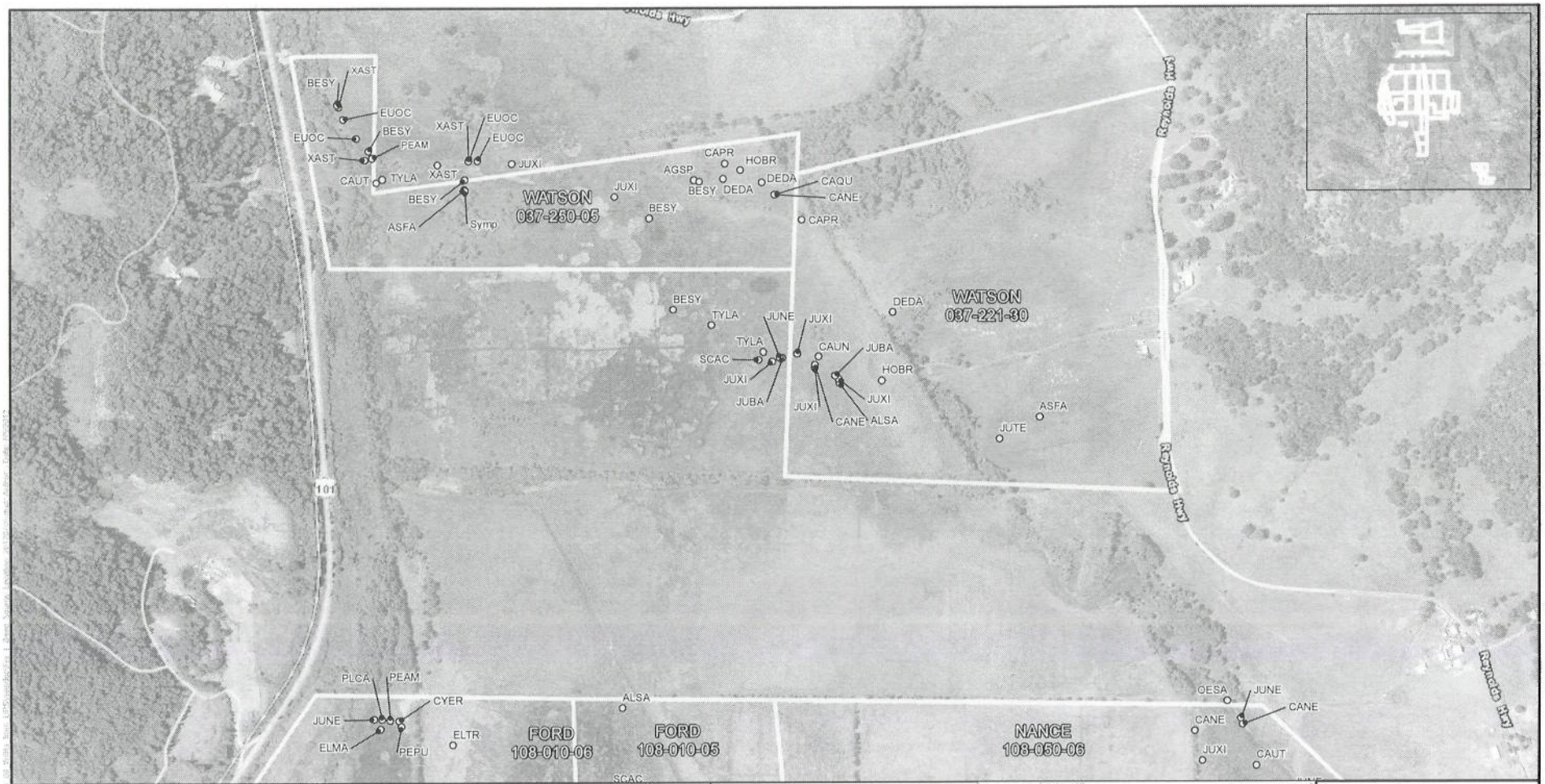
For Contract No. 01-262024
At 01-Men-101-45.0/50.8

Identified by
Project ID 0112000202

MATERIALS INFORMATION

SEED SOURCE LOCATIONS

ADDED PER ADDENDUM No. 3 DATED OCTOBER 8, 2013



Acroynym	Scientific name
ALSA	Alopecurus saccatus
ARDO	Artemisia douglasiana
ASFA	Asclepias fascicularis
BESY	Beckmannia syzigachne
CAAQ	Carex aquatilis
CAAT	Carex athrostachya
CADE	Carex densa
CAGR	Carex gracilior
CANE	Carex nebrascensis
CANU	Carex nudata

Acroynym	Scientific name
CAPR	Carex praegracilis
CAQU	Camassia quamash
CASU	Carex subbracteata
CATU	Carex tumulicola
CAUN	Carex unilateralis
CAUT	Carex utriculata
CAVE	Carex vesicaria
DACA	Danthonia californica
DEDA	Deschampsia danthonioides
DEEL	Deschampsia elongata

Acroynym	Scientific name
ELMA	Eleocharis macrostachya
ELTR	Elymus triticoides (formerly Leymus triticoides)
EPCI	Epilobium ciliatum
EQAR	Equisetum arvense
EUOC	Euthamia occidentalis
HOBR	Hordeum brachyantherum
JUBA	Juncus balticus
JUBO	Juncus bolanderi
JUEF	Juncus effusus
JUNE	Juncus nevadensis

Acroynym	Scientific name
JUPA	Juncus patens
JUPH	Juncus phaeocephalus
JUTE	Juncus tenuis
JUXI	Juncus xiphioides
OESA	Oenanthe sarmentosa
PEAM	Persicaria amphibia (formerly Polygonum amphibium)
PEPU	Persicaria punctata (formerly Polygonum punctatum)
PLCA	Pleuropogon californicus var. davyi
SCAT	Schoenoplectus acutus
STAJ	Stachy ajugoides
Symp	Symphyotrichum sp.
TYLA	Typha latifolia
XAST	Xanthium strumarium

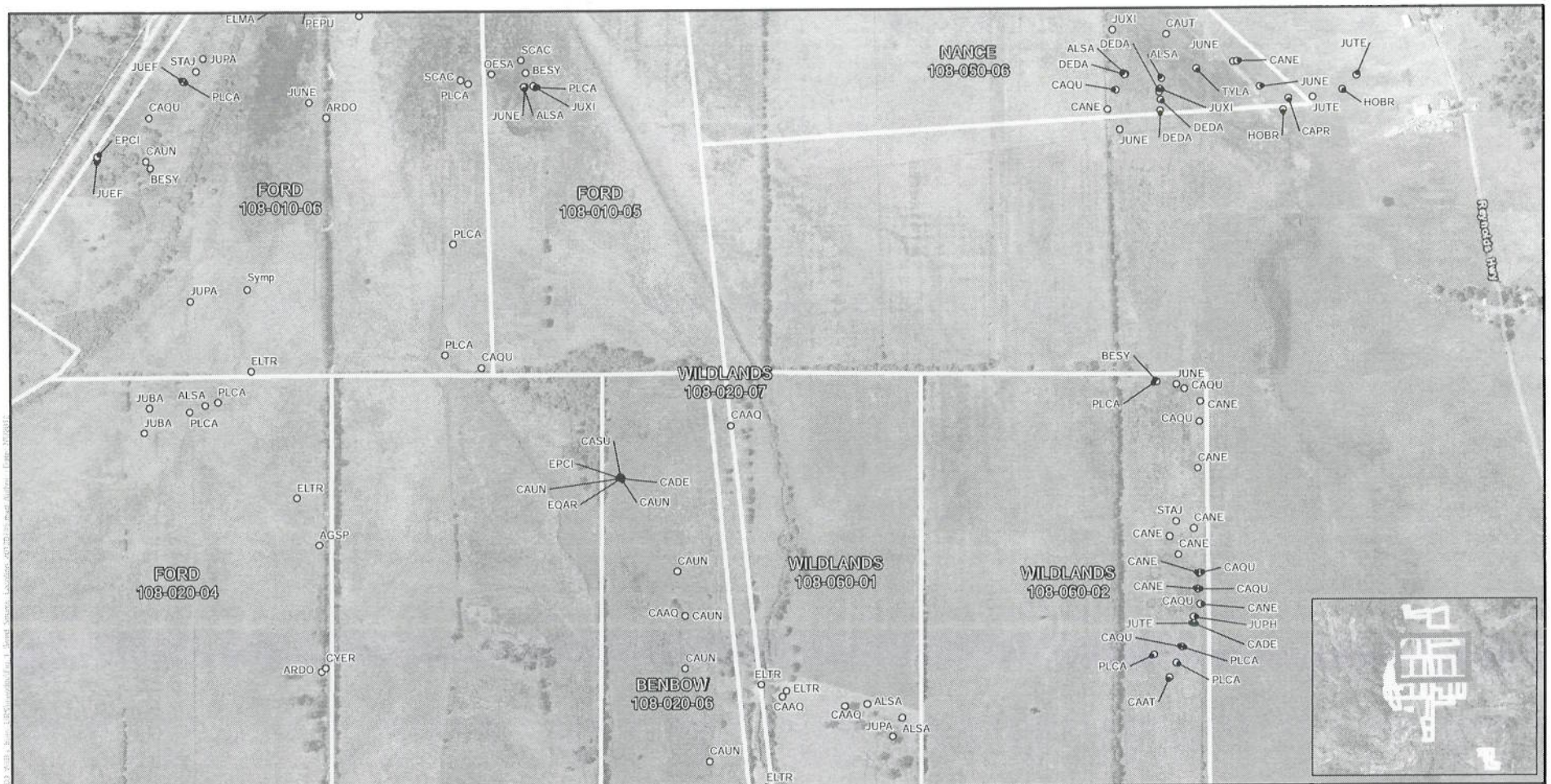
Offsite Mitigation Parcel

Seed Source Locations

0 300 600
Feet

N

Figure 1
Seed Source Locations for Specific Wetland Plant Species (Page 1 of 4)



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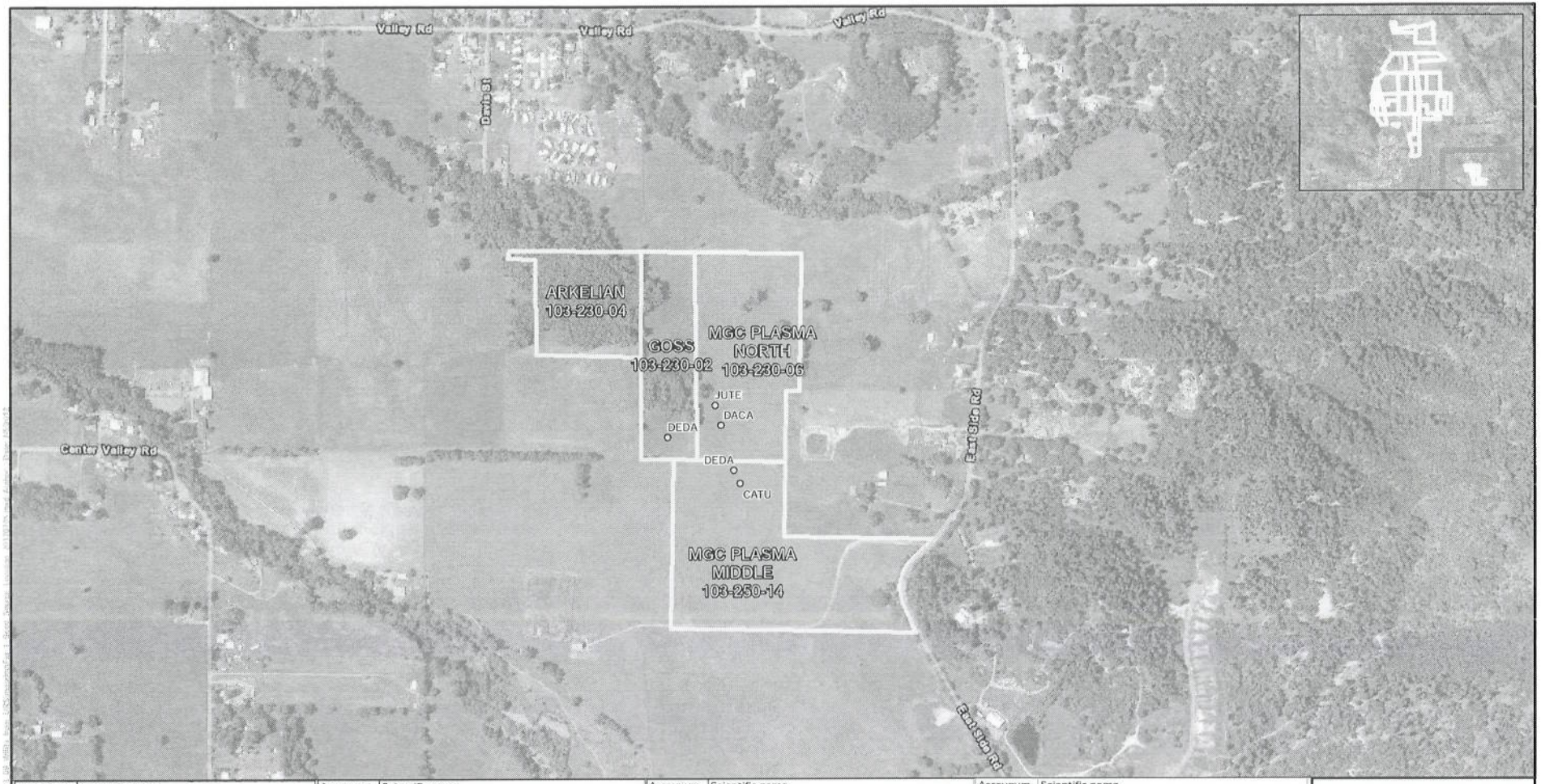

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Seed Source Locations
for Specific Wetland
Plant Species (Page 4 of 4)

USACE Plants for Mitigation Areas – June 13, 2012
DRAFT

Scientific Name	IND Status	Growth Form	Flower Period	Fruit Period	Parcels
Alopecurus saccatus	OBL	Annual Grass	May-July		
Beckmania syzigache	OBL	Annual Grass	May-July		Brooke, possibly Watson West. Jacobs, and Ford 108-010-06
Deschampsia danthanoides	FACW	Annual Grass	March-August		
Pleuropogon californicus	OBL	Annual Grass	March-May		Fairly common in LLV. Occupies most of the swales in wet meadows: Benbow 1-5, Wildlands, Ford (all), Watson, Nance, etc
Achyrachaena mollis	FAC	Annual Herb	April-May		
Bidens cernua	OBL	Annual Herb	June-October		
Xanthium strummarium	FAC	Annual Herb	July-October		
Cirsium douglasii	OBL	Biennial herb	?		
Allium amplectens	NI	Perennial Bulb	March-June		
Camassia quamash	FACW	Perennial Bulb	May-June		Watson East, possibly Jacobs, Ford, 108-010-06, and Nance
Agrostis exarata	FACW	Perennial Grass	June-August		
Alopecrurus aequalis	OBL	Perennial Grass	May-July		
Danthonia californica	FACW	Perennial Grass	May-July		
Deschampsia cespitosa	FACW	Perennial Grass	July-August		
Deschampsia elongata	FACW	Perennial Grass	May-August		
Glyceria leptostachya	OBL	Perennial Grass	May-June		
Hordeum brachyantherum	FACW	Perennial Grass	May-August		
Leymus triticoides	FAC	Perennial Grass	June-July		
Pleuropogon hooverianus	FACW	Perennial Grass	May-August		Huffman, Goss, Arkelian
Carex aquatilis	OBL	Perennial Grass-like	?		
Carex athrostachya	FACW	Perennial Grass-like	?		
Carex bolanderi	FACW	Perennial Grass-like	?		
Carex densa	OBL	Perennial Grass-like	?		
Carex deweyana	FACW	Perennial Grass-like	?		
Carex feta	OBL	Perennial Grass-like	?		
Carex gracilior	NI	Perennial Grass-like	?		
Carex leptopoda	FACW	Perennial Grass-like	?		
Carex nebrascensis	OBL	Perennial Grass-like	?		
Carex nudata	FACW	Perennial Grass-like	?		
Carex pachystachya	FACW	Perennial Grass-like	?		
Carex praaegracilis	FACW	Perennial Grass-like	?		
Carex serratodens	FACW	Perennial Grass-like	?		
Carex subbracteata	FACW	Perennial Grass-like	?		
Carex subfusca	FAC	Perennial Grass-like	?		
Carex tumicola	UPL	Perennial Grass-like	?		
Carex utricularia	NI	Perennial Grass-like	?		
Carex vesicaria	OBL	Perennial Grass-like	?		
Juncus balticus	OBL	Perennial Grass-like	May-August		

Juncus bolanderi	OBL	Perennial Grass-like	June-August		
Juncus effuses	OBL	Perennial Grass-like	June-August		
Juncus orthophyllus	FACW	Perennial Grass-like	July-August		
Juncus oxymeris	FACW	Perennial Grass-like	June-August		
Juncus patens	FAC	Perennial Grass-like	June-July		Common throughout Wet Meadows
Juncus tenuis	FACW	Perennial Grass-like	March-August		Common throughout Wet Meadows
Juncus xiphioides	OBL	Perennial Grass-like	May-August		
Alisma plantago=aquatica	OBL	Perennial Herb	June-July		Parcels adjoining Outlet Creek: Brooke, possibly Watson West. Jacobs, and Ford 108-010-06, ditches adjacent to Nissen, Lusher and Brooke
Ambrosia psilostachya	FAC	Perennial Herb	July-November		Yay! The locals will love us filling up the valley with ragweed (= allergies galore)
Artemesia douglasiana	FACW	Perennial Herb	June-October		
Asclepias fasicularis	FAC	Perennial Herb	June-September		Lusher East????
Epilobium ciliatum	FACW	Perennial Herb	July-October		Super-common, especially streamside
Equisetum arvense	FAC	Perennial Herb	?		
Equisetum laevigitum	FACW	Perennial Herb	?		
Equisetum telmetia	OBL	Perennial Herb	?		
Euthamia occidentalis	OBL	Perennial Herb	July-November		Brooke, possibly Watson West. Jacobs, and Ford 108-010-06
Oenanthe sarmentos	OBL	Perennial Herb	June-October		Parcels adjoining Outlet Creek:, Davis Creek and Mill Creek, ditches adjacent to Nissen, Lusher and Brooke
Perideridia gairdneri	FACW	Perennial Herb	June-July		
Perideridia howellii	FACW	Perennial Herb	July-August		
Polygonum hydropiproides	OBL	Perennial Herb	June-October		
Polygonum punctatum	OBL	Perennial Herb	July-October		
Schoenoplectus (=Scirpus) acutus	OBL	Perennial Herb	May-August		Brooke, possibly Watson West. Jacobs, and Ford 108-010-06
Stachys rigida	FACW	Perennial Herb	July-August		
Stachys stricta	OBL	Perennial Herb	June-September		Huffman (small population)
Symphotrichium (=Aster) chilense	FACW	Perennial Herb	July-November		
Symphotrichium (=Aster)	FACW	Perennial Herb	July-August		

foliaceum					
Symphotrichium spathulatum (= Aster occidentalis)	FAC	Perennial Herb	July-September		
Typha latifolia	OBL	Perennial Herb	June-July		Brooke, possibly Watson West. Jacobs, and Ford 108-010-06
Acer circinatun	FAC	Shrub	April-May		
Baccharis douglasii	OBL	Shrub	July-October		
Baccharis salicifolia	FACW	Shrub	March-July		
Calycanthus occidentalis	FAC	Shrub	April-August		
Cornus canadensis	FAC	Shrub	May-July		
Cornus glabrata	FACW	Shrub	May-June		
Cornus sessilis	FAC	Shrub	March-April		
Physocarpus capitatus	FACW	Shrub	May-July		Parcels adjacent to Outlet, Davis, Mill Creeks
Ribes divarcatum	FACW	Shrub	March-May		
Rosa californica	FAC	Shrub	May-August		
Rubus leucodermis		Shrub	April-July		
Rubus parviflorus	FAC+	Shrub	March-August		
Rubus ursinius	FACW	Shrub	March-July		Brooke, Goss/Arkelian
Salix exigua	OBL	Shrub	March-May		
Salix lasiolepis	FACW	Shrub	February-April		
Sambucus caerulea (=S. mexicana)	FAC	Shrub	March-September		
Apocynum cannabinium	FAC	Srub	June-August		
Acer macrophyllum	FAC	Tree	April-May		
Acer negundo	FACW	Tree	March-April		
Alnus rhombifolia	FACW	Tree	January-April		
Alnus rubra	FACW	Tree	March-April		
Fraxinus latifolia	FACW	Tree	March-May		
Populus balsamifera	FACW	Tree	February-April		
Populus fremontii	FACW	Tree	March-April		
Quercus lobata	FAC	Tree	March-April		
Salix laevigata	NI	Tree	March-May		
Salix lasiandra	OBL	Tree	March-May		
Umbellularia californica	FAC	Tree	December-May		
Clematis ligustifolia	FAC	Vine	March-August		
Vitis californica	FACW	Vine	May-June		

*Flowering periods are from "A California Flora and Supplement" Munz, 1959

-Flowering periods for Carex, sp not given in Munz

-Flowering period for Equisetum sp. not given in Munz (not a flowering species)

-"Fruiting" periods not given in Munz.

Table 1. Parcel and Abundance Information for Target Seed Collection Species

Acronym	Common Name (Scientific Name)	Parcel/s With Potential as Seed Sources	Abundance/Notes from June 25–29, 2012 Fieldwork
ALSA	Pacific foxtail (*Alopecurus saccatus*)	Ford 108-010-05, Ford 108-0020-04, Nance 108-050-06, Watson East (037-221-30), Wildlands 108-060-01	There are many sparse populations in wetter, less vegetated channels and low areas. The best known sources are patches around *S. acutus* on Ford, but are just okay.
ARDO	Mugwort (*Artemisia douglasiana*)	Wildlands 108-070-08, Ford 108-010-06, Ford 108-020-04, Ford 108-030-02	Species found occasionally along Outlet Creek and Davis Creek. On Wildlands, the populations along creek are among the best observed but are still sparse/poor. The best known population is along the creek on Ford, but is still only okay.
ASFA	Narrow leaf milkweed (*Asclepias fascicularis*)	Watson West (037-250-05), Watson East (037-221-30)	The best known seed source is on Watson West, but individuals are still very small.
BESY	American slough-grass (*Beckmannia syzigachne*)	Watson West (037-250-05), Brooke West (038-040-09), Ford 108-010-05, Ford 108-010-06, Wildlands 108-060-02	The best known seed source is on Watson West.
CAAQ	Water sedge (*Carex aquatilis*)	Wildlands 108-060-01, Wildlands 108-020-07, Benbow 108-020-06	There are a few populations where species is abundant. The best known population is on Wildlands near the northwest corner of the parcel. The population on Benbow is good.
CAAT	Slender beak sedge (*Carex athrostachya*)	Wildlands 108-060-02	A single plant found on Wildlands.
CADE	Dense sedge (*Carex densa*)	Benbow 108-020-06, Ford 108-030-02, Taylor, Lusher 108-030-04, Wildlands 108-	There is a good population on Taylor at the upper edge of wetland east of Hwy 101 (not mitigation land). Botanists made some incidental observations on Goss meadows; no GPS locations taken there. The best known population is on Lusher. G. Hulse-Stephens

		060-02, Niesen 108-040-02	observed 100 plants with ripe fruits on 6/28 and 6/29.
CAGR	Slender sedge (*Carex gracilior*)	Brooke West (038-040-09), Lusher 108-030-04, Huffman East (108-040-08), Niesen 108-040-02	Species is extensive on Huffman East field and in fruit. The seed source on Brooke West is just okay. Only one spot found on Lusher so far and is small. G. Hulse-Stephens observed three locations with 1000s of ripe fruits that were falling on 6/28 and 6/29.
CANE	Nebraska sedge (*Carex nebrascensis*)	Nance 108-050-06, Wildlands 108-060-02, Watson West (037-250-05), Watson East (037-221-30)	Many GPS locations; a good population is located on the east side of the marsh on Nance. The best known population is on Wildlands in scattered patches along the eastern side of the parcel in "L" field.
CANU	Naked sedge (*Carex nudata*)	Wildlands 108-070-08	Few plants observed in Davis Creek
CAPR	Field sedge (*Carex praegracilis*)	Watson West (037-250-05), Watson East (037-221-30), Nance 108-050-06	The best source appears to be in Watson East.
CAQU	Camas (*Camassia quamash*)	Ford 108-010-06, Wildlands 108-060-02, Nance 108-050-06, Watson West (037-250-05)	Species is extensive on Nance west but no GPS data taken. Many GPS locations recorded on Ford and Wildlands. Grazed areas harder to collect. A population that may be okay for seed this year is in the furthest west marsh on Ford near Hwy 101. The best spot for seed collection on Wildlands is along the eastern side of the parcel in the "L" field.
CASU	Small bract sedge (*Carex subbracteata*)	Benbow 108-020-06	Only 2 plants observed.
CATU	Foothill sedge (*Carex tumulicola*)	Benbow 108-040-13, MGC Plasma Middle 103-230-06, Niesen 108-040-02,	Species occasionally observed; mostly on Benbow (best population) and one location on MGC Plasma Middle. G. Hulse-Stephens observed 1000s of fruiting plants on 6/28 and 6/29 on Niesen. She also observed hundreds of plants on MGC Plasma Middle that were fruiting.
CAUN	Lateral sedge (*Carex unilateralis*)	Benbow 108-020-06, Benbow 108-030-07, Ford 108-010-06, Watson East (037-221-30)	The population on Benbow is just okay, but might be the best found to date; grazing may be a problem for seed collection. Species is very similar to *C. athrostachya* and commonly mistaken for it.

CAUT	Beaked sedge (*Carex utriculata*)	Watson West (037-250-05), Brooke West (038-040-09), Nance 108-050-06	The best population is on Watson West but still small.
CAVE	Blister sedge (*Carex vesicaria*)	Brooke West (038-040-09)	Rare; one plant observed on Brooke West.
DACA	California oatgrass (*Danthonia californica*)	Benbow 108-040-13, Goss North, MGC Plasma North 103-230-06	Best population is on Benbow; also found on Goss North. G. Hulse-Stephens observed 100s of plants with ripe fruits on 6/28 and 6/29.
DEDA	Annual hairgrass (*Deschampsia danthonioides*)	Ford 108-030-02, Watson West (037-250-05), Watson East (037-221-30), Nance 108-050-06, Goss South (103-230-02), MGC Plasma Middle 103-230-06	A few locations (GPSd) were observed, including field in Goss South and MGC. The best known population is a patch in the southeast corner of Ford near the creek. G. Hulse-Stephens observed 1000s of plants that were dry (some with persisting seed) on 6/28 and 6/29.
DEEL	Slender hairgrass (*Deschampsia elongata*)	Wildlands 108-070-08, Wildlands 108-070-09	A few locations (GPSd) were observed along Berry Creek and Davis Creek. Species occurs on Wildlands along creek corridor on the uphill side of the tree canopy.
ELMA	Common spikerush (*Eleocharis macrostachya*)	Watson West (037-250-05), Ford 108-010-06	Common and abundant in marshes, particularly on Watson West.
ELTR	Beardless wildrye (*Elymus triticoides*; formerly *Leymus triticoides*)	Wildlands 108-020-07, Wildlands 108-060-01, Wildlands 108-070-09, Wildlands 108-070-08, Ford 108-010-06, Ford 108-020-04 Lusher 108-030-04	Common and abundant in some areas. Okay population in meadow near creek on Wildlands. The best known populations are on Ford (northeast side of the creek that flows due north through parcel) and Lusher (near gate to Ford 108-030-02).
EPCI	Fringed willowherb (*Epilobium ciliatum*)	Benbow 108-020-06, Lusher 108-030-04, Wildlands 108-	Species is generally uncommon and sparse. The best known population is on Ford in the furthest west marsh near Hwy 101 but is still poor overall. The population on Wildlands in

		070-08, Ford 108-010-06	the northwest marsh is one of the best in terms of size but is done with seed for this year.
EQAR	Common horsetail (*Equisetum arvense*)	Benbow 108-020-06	The only observation was single plant on Benbow.
EUOC	Western goldenrod (*Euthamia occidentalis*)	Watson West (037-250-05), Brooke 038-040-09	The best known seed source is in the northwest end of Watson West. The seed source on Brooke West is just okay.
HOBR	Meadow barley (*Hordeum brachyantherum*)	Watson West (037-250-05), Watson East (037-221-30), Nance 108-050-06	Good source for seed collection is along the eastern edge of the marsh area in Watson East. Species is abundant on Nance at upper rim of wetland on southeast side of marsh.
JUBA	Baltic rush (*Juncus balticus*)	Ford 108-020-04, Nance 108-050-06, Watson East (037-221-30)	The best population is on Nance but is still small. Species is occasional in scant patches in the wetter parts of low, less vegetated sites. Poor seed development.
JUBO	Bolander's rush (*Juncus bolanderi*)	Wildlands 108-070-08, Wildlands 108-070-09	Species observed occasionally along creeks (GPSd). The best known populations are along creek on Brooke West near Ford's bridge, but are small.
JUEF	Soft rush (*Juncus effusus*)	Benbow 108-030-07, Brooke West (038-040-09), Ford 108-030-02, Ford 108-010-06, Ford 108-030-05,	Common in Benbow and Cox 80–seed development looks good. Okay seed source on Brooke West. Ford 108-010-06 population is relatively small and scattered. The best population is on Ford 108-030-05.
JUNE	Sierra rush (*Juncus nevadensis*)	Watson East (037-221-30), Nance 108-050-06, Ford 108-010-05, Wildlands 108-060-02	Species is common and extensive–the most abundant of the *Juncus* species in the valley. The marsh in Watson East and Nance is an excellent seed source, as are the populations around *S. acutus* on Ford.
JUPA	Spreading rush (*Juncus patens*)	Brooke West (038-040-09), Ford 108-010-06, Ford 108-020-004, Ford 108-030-02, Ford 108-030-05, Wildlands 108-070-08,	Species is abundant but the seeds not developing in the drier parts of any given field. The best known populations are on Ford 108-010-06 (in the furthest west marsh near Hwy 101), Wildlands 108-070-08 (marsh in northwest corner of parcel), and Ford 108-030-05.

		Wildlands 108-060-01, Lusher 108-030-04,	
JUPH	Brown headed rush (*Juncus phaeocephalus*)	Wildlands 108-060-02	The only spot found on Wildlands is a small patch just east of the lone tree in the middle of the field.
JUTE	Poverty rush (*Juncus tenuis*)	Benbow 108-040-13, Ford 108-030-02, Lusher 108-030-04, Nance 108-050-06, Watson East (037-221-30), Wildlands 108-060-02, Wildlands 108-070-08, MGC Plasma North 103-230-06	The best population is likely on Nance, where it is interspersed with *H. brachyantherum*. Probably the most common in drier meadows; many GPS locations. G. Hulse-Stephens observed 1000s of plants with ripe fruits on 6/28 and 6/29.
JUXI	Iris-leaved rush (*Juncus xiphioides*)	Nance 108-050-06, Ford 108-010-05, Watson West (037-250-05), Watson East (037-221-30)	Species is common in wetter meadows; heavily grazed and often has poor seed development. The best population is on Watson East.
OESA	Water parsley (*Oenanthe sarmentosa*)	Brooke West (038-040-09), Ford 108-010-05	Few abundant populations; some not on mitigation lands but GPSd. Excellent seed source on Brooke West.
PEAM	Water smartweed (*Persicaria amphibia*; formerly *Polygonum amphibium*)	Watson West (037-250-05), Ford 108-010-06	Mostly observed in vegetative state; scattered throughout wettest parts of marsh on Watson West. Excellent population in marsh on Ford that is just west of the creek; however, lots of cattle that may consume them prior to collection were observed during fieldwork.
PEPU	Dotted smartweed (*Persicaria punctata*; formerly *Polygonum punctatum*)	Ford 108-020-06	Rare; few GPS locations. The best known population is on Ford in the gravel bar in the creek on the east side of the parcel.
PLCA	Davy's semaphore grass (*Pleuropogon californicus* var. *davyi*)	Ford 108-010-05, Ford 108-010-06, Ford 108-020-04, Wildlands 108-060-02	Species is abundant; all individuals are completely dry with some seed persisting.
SCAT	Tule (*Schoenoplectus acutus*; formerly Scirpus acutus)	Ford 108-010-05, Ford 108-010-06, Watson	Species is abundant in the wettest marshes, especially the northern Ford parcels. Excellent seed source on Watson West. Best known seed

		West (037-250-05)	source is on Ford 108-010-05 in a large patch on the north side that also partly occurs on the adjacent parcel.
STAJ	Hedge nettle (*Stachys ajugoides*)	Ford 108-010-06, Lusher 108-030-04, Wildlands 108-060-02	Species occasionally observed but never in great numbers. One of the best populations is on Ford along the ditch just north of the pond along the fenceline on the south side of the parcel. The population on Lusher is okay.
Symp	Aster (*Symphyotrichum* sp.)	Watson West (037-250-05), Benbow 108-040-13, Ford 108-010-06	The best known seed source is on Watson West, but individuals are still very small and vegetative; species unknown.
TYLA	Broadleaf cattail (*Typha latifolia*)	Watson West (037-250-05), Nance 108-050-06	The best seed source appears to be on Watson West. Large stands of *Sparganium eurycephalum* (developing seed) are also present, and there is abundant *Sium suave*, which is a good candidate for seed collection and is now in flower. There is lots of *Eryngium* sp. (vegetative) scattered throughout marsh.
XAST	Cocklebur (*Xanthium strumarium*)	Watson West (037-250-05), Wildlands 108-070-08	Species is occasionally in wettest parts of marsh where competition from other species is low. All individuals were in the vegetative state at the time of fieldwork. The population in the northwest marsh on Wildlands in one of the best; however, the best known seed sources are on Watson West, mostly along the northern fenceline.