



APPENDIX C. FLORISTIC BASELINE DATA

(Baseline Floristic Data for Tables 18, 19, and 20 in the Mitigation Success Criteria Section)



Appendix C. Plant Species by Habitat Type at the NVG Project Site

Scientific Name ³³	Common Name	Habit ³⁴	WIS ³⁵	Family
<i>Vernal Pool (25 total, 17 native, 8 nonnative)</i>				
<i>Anagallis arvensis</i> *	Scarlet Pimpernel	AH	FAC	Primulaceae
<i>Briza minor</i> *	Little Quakinggrass	AG	FACW-	Poaceae
<i>Callitriche marginata</i> +	Winged Water-starwort	AH	OBL	Callitrichaceae
<i>Chamomilla suaveolens</i> *	Pineapple Weed	AH	FACU	Asteraceae
<i>Castilleja campestris</i> ssp. <i>campestris</i>	Field Owl's Clover	AH	OBL*	Orobanchaceae
<i>Deschampsia danthonioides</i>	Annual Hairgrass	AG	FACW	Poaceae
<i>Eleocharis macrostachya</i>	Creeping or Pale Spikerush	PG	OBL	Cyperaceae
<i>Epilobium ciliatum</i>	Northern Willow-herb	PH	FACW	Onagraceae
<i>Epilobium densiflorum</i>	Dense-flowered Willow-herb	AH	OBL	Onagraceae
<i>Eremocarpus setigerus</i>	Dove Weed	AH	-	Euphorbiaceae
<i>Gratiola ebracteata</i>	Bractless Hedgehyssop	AH	OBL	Scrophulariaceae
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> *	Mediterranean Barley	AG	FAC	Poaceae
<i>Juncus bufonius</i>	Common Toad Rush	AG	OBL	Juncaceae
<i>Lasthenia fremontii</i>	Fremont's Goldfields	A/PH	OBL	Asteraceae
<i>Lasthenia glaberrima</i> +	Smooth Goldfields	AH	OBL	Asteraceae
<i>Lolium multiflorum</i> *	Italian Ryegrass	AG	FAC*	Poaceae
<i>Lythrum hyssopifolium</i> *	Hyssop Loosestrife	AH	FACW	Lythraceae
<i>Navarretia leucocephala</i> +	Whitehead Navarretia	AH	OBL	Polemoniaceae
<i>Plagiobothrys stipitatus</i> +	Stalked Popcornflower	AH	OBL	Boraginaceae
<i>Poa annua</i> *	Annual Bluegrass	AG	FACW-	Poaceae
<i>Pseudognaphalium luteoalbum</i> *	Everlasting Cudweed	AH	FACW-	Asteraceae
<i>Psilocarphus brevissimus</i> +	Dwarf Woollyheads	AH	OBL	Asteraceae
<i>Ranunculus bonariensis</i> +	Carter's Buttercup	AH	OBL	Ranunculaceae
<i>Triteleia hyacinthina</i>	White Brodiaea	PH	FACW*	Liliaceae
<i>Veronica peregrina</i>	Neckweed	AH	OBL	Veronicaceae
<i>Vernal Pool Buffer (21 total, 4 native, 17 nonnative)</i>				
<i>Anagallis arvensis</i> *	Scarlet Pimpernel	AH	FAC	Primulaceae

³³ * = Introduced plant species that have become naturalized. + = Native species characteristic of the habitat. Scientific names of the plant species follow Hickman (1993) and Flora of North America Committee (2001-2007). Brackets [] indicate updated nomenclature.

³⁴ Habit definitions: AG = annual graminoid; AH = annual herb; AV = annual vine; F = Fern; PG = perennial graminoid; PH = perennial herb; PV = perennial vine; S = shrub; T = tree.

³⁵ WIS = Wetland Indicator Status. The following code definitions are according to Reed (1988):
 OBL = obligate wetland species, occurs almost always in wetlands (>99% probability).
 FACW = facultative wetland species, usually found in wetlands (67-99% probability).
 FAC = facultative species, equally likely to occur in wetlands or nonwetlands (34-66% probability).
 FACU = facultative upland species, usually found in nonwetlands (67-99% probability).
 UPL = obligate upland species in this region (99% probability), occurs in wetlands in another region
 NI = no indicator status has been assigned due to a lack of information.

+ or - symbols are modifiers that indicate greater or lesser affinity for wetland habitats.

* = tentative assignment to that indicator status by Reed (1988).

() Parentheses indicate a wetland status suggested by David L. Magney based on extensive field observations.

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Scientific Name ³³	Common Name	Habit ³⁴	WIS ³⁵	Family
<i>Avena barbata</i> *	Slender Wild Oat	A/PG	-	Poaceae
<i>Brassica rapa</i> *	Field Mustard	AH	-	Brassicaceae
<i>Briza minor</i> *	Little Quakinggrass	AG	FACW-	Poaceae
<i>Bromus diandrus</i> *	Ripgut Brome	AG	(FACU)	Poaceae
<i>Bromus hordeaceus</i> *	Soft Brome	AG	FACU-	Poaceae
<i>Bromus madritensis</i> ssp. <i>rubens</i> *	Red Brome	AG	NI	Poaceae
<i>Centaurium muhlenbergii</i>	Monterey Centaury	AH	FAC	Gentianaceae
<i>Chamomilla suaveolens</i> *	Pineapple Weed	AH	FACU	Asteraceae
<i>Deschampsia danthonioides</i>	Annual Hairgrass	AG	FACW	Poaceae
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> *	Mediterranean Barley	AG	FAC	Poaceae
<i>Hordeum murinum</i> *	Summer Barley	AG	NI	Poaceae
<i>Juncus capitatus</i> *	Leafybract Dwarf Rush	AG	FACU	Juncaceae
<i>Leontodon taraxacoides</i> *	Hawkbit	A/B/PH	FACU	Asteraceae
<i>Lepidium nitidum</i>	Common Peppergrass	AH	-	Brassicaceae
<i>Lolium multiflorum</i> *	Italian Ryegrass	AG	FAC*	Poaceae
<i>Lythrum hyssopifolium</i> *	Hyssop Loosestrife	AH	FACW	Lythraceae
<i>Plantago erecta</i>	California Plantain	AH	-	Plantaginaceae
<i>Poa annua</i> *	Annual Bluegrass	AG	FACW-	Poaceae
<i>Pseudognaphalium luteoalbum</i> *	Everlasting Cudweed	AH	FACW-	Asteraceae
<i>Vulpia bromoides</i> *	Brome Fescue	AG	FACW	Poaceae
Seasonal Wetlands and Swales (26 total, 15 native, 11 nonnative)				
<i>Alisma lanceolatum</i> *	Lanceleaf Water Plantain	PH	OBL	Alismataceae
<i>Azolla filiculoides</i>	Pacific Mosquitofern	F	OBL	Azollaceae
<i>Crypsis schoenoides</i> *	Swamp Grass	AG	OBL	Poaceae
<i>Cyperus eragrostis</i> +	Umbrella-sedge	PG	FACW	Cyperaceae
<i>Deschampsia danthonioides</i>	Annual Hairgrass	AG	FACW	Poaceae
<i>Epilobium ciliatum</i> +	Northern Willow-herb	PH	FACW	Onagraceae
<i>Epilobium densiflorum</i>	Dense-flowered Willow-herb	AH	OBL	Onagraceae
<i>Epilobium pygmaeum</i>	Smooth Spike-primrose	AH	OBL	Onagraceae
<i>Glyceria declinata</i> *	Waxy Mannagrass	PG	-	Poaceae
<i>Gnaphalium palustre</i> +	Lowland Cudweed	AH	FACW	Asteraceae
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> *	Mediterranean Barley	AG	FAC	Poaceae
<i>Juncus balticus</i> +	Baltic Rush	PG	OBL	Juncaceae
<i>Juncus bufonius</i>	Common Toad Rush	AG	OBL	Juncaceae
<i>Juncus effusus</i>	Common Rush	PG	OBL	Juncaceae
<i>Juncus xiphioides</i>	Iris-leaved Rush	PG	OBL	Juncaceae
<i>Lolium multiflorum</i> *	Italian Ryegrass	AG	FAC*	Poaceae
<i>Mentha pulegium</i> *	Pennyroyal	PH	OBL	Lamiaceae
<i>Phyla nodiflora</i>	Turkey Tangle Fogfruit	PH	FACW	Verbenaceae
<i>Plagiobothrys stipitatus</i> +	Stalked Popcornflower	AH	OBL	Boraginaceae
<i>Polypogon monspeliensis</i> *	Rabbitsfoot Grass	AG	FACW+	Poaceae

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<i>Rumex acetosella</i> *	Common Sheep Sorrel	PH	FAC-	Polygonaceae
<i>Rumex crispus</i> *	Curly Dock	PH	FACW-	Polygonaceae
<i>Rumex pulcher</i> *	Fiddle Dock	PH	FAC+	Polygonaceae
<i>Triteleia hyacinthina</i>	White Brodiaea	PH	FACW*	Liliaceae
<i>Veronica anagallis-aquatica</i> *	Water Speedwell	PH	OBL	Veronicaceae
<i>Veronica peregrina</i>	Neckweed	AH	OBL	Veronicaceae
Seasonal Wetlands and Swales Buffer (23 total, 5 native, 18 nonnative)				
<i>Amaranthus retroflexus</i> +	Redroot Amaranth	AH	FACU	Amaranthaceae
<i>Anthemis cotula</i> *	Mayweed	AH	FACU	Asteraceae
<i>Asclepias fascicularis</i> +	Narrowleaf Milkweed	PH	FAC	Apocynaceae
<i>Bromus diandrus</i> *	Ripgut Brome	AG	(FACU)	Poaceae
<i>Bromus hordeaceus</i> *	Soft Brome	AG	FACU-	Poaceae
<i>Bromus madritensis</i> ssp. <i>rubens</i> *	Red Brome	AG	NI	Poaceae
<i>Chamomilla suaveolens</i> *	Pineapple Weed	AH	FACU	Asteraceae
<i>Chenopodium album</i> *	Lambsquarters	AH	FAC	Chenopodiaceae
<i>Festuca arundinacea</i> *	Tall Fescue	PG	FAC-	Poaceae
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> *	Mediterranean Barley	AG	FAC	Poaceae
<i>Lactuca serriola</i> *	Prickly Wild Lettuce	AH	FAC	Asteraceae
<i>Lepidium nitidum</i> +	Common Peppergrass	AH	-	Brassicaceae
<i>Lolium multiflorum</i> *	Italian Ryegrass	AG	FAC*	Poaceae
<i>Lotus corniculatus</i> *	Birdsfoot Trefoil	PH	FAC	Fabaceae
<i>Lythrum hyssopifolium</i> *	Hyssop Loosestrife	AH	FACW	Lythraceae
<i>Picris echioides</i> *	Bristly Ox-tongue	AH	(FAC)	Asteraceae
<i>Plantago erecta</i> +	California Plantain	AH	-	Plantaginaceae
<i>Plantago lanceolata</i> *	English Plantain	PH	FAC-	Plantaginaceae
<i>Polygonum arenastrum</i> *	<i>Common Knotweed</i>	AH	FAC	Polygonaceae
<i>Pseudognaphalium luteoalbum</i> *	Everlasting Cudweed	AH	FACW-	Asteraceae
<i>Ranunculus muricatus</i> *	Spinyfruit Buttercup	A/B/PH	FACW+	Ranunculaceae
<i>Rumex crispus</i> *	Curly Dock	PH	FACW-	Polygonaceae
<i>Xanthium strumarium</i> +	Cocklebur	AH	FAC+	Asteraceae
Seasonal Marsh (17 total, 11 native, 6 nonnative)				
<i>Alisma lanceolatum</i> *	Lanceleaf Water Plantain	PH	OBL	Alismataceae
<i>Azolla filiculoides</i>	Pacific Mosquitofern	F	OBL	Azollaceae
<i>Crypsis schoenoides</i> *	Swamp Grass	AG	OBL	Poaceae
<i>Epilobium pygmaeum</i>	Smooth Spike-primrose	AH	OBL	Onagraceae
<i>Glyceria declinata</i> *	Waxy Mannagrass	PG	-	Poaceae
<i>Juncus effuses</i> +	Common Rush	PG	OBL	Juncaceae
<i>Juncus xiphioides</i> +	Iris-leaved Rush	PG	OBL	Juncaceae
<i>Lemna minuscula</i>	Least Duckweed	PH	OBL	Lemnaceae
<i>Ludwigia peploides</i>	Floating Water-primrose	PH	OBL	Onagraceae
<i>Mentha pulegium</i> *	Pennyroyal	PH	OBL	Lamiaceae

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<i>Polygonum hydropiperoides</i>	Swamp Smartweed	PH	OBL	Polygonaceae
<i>Polygonum punctatum</i>	Dotted Smartweed	A/PH	OBL	Polygonaceae
<i>Polypogon monspeliensis</i> *	Rabbitsfoot Grass	AG	FACW+	Poaceae
<i>Ranunculus muricatus</i> *	Spinyfruit Buttercup	A/B/PH	FACW+	Ranunculaceae
<i>Schoenoplectus [Scirpus] acutus</i> +	Hardstem Bulrush	PH	OBL	Cyperaceae
<i>Typha latifolia</i> +	Cattail	PH	OBL	Typhaceae
<i>Xanthium strumarium</i>	Cocklebur	AH	FAC+	Asteraceae
Seasonal Marsh Buffer (24 total, 5 native, 19 nonnative)				
<i>Anagallis arvensis</i> *	Scarlet Pimpernel	AH	FAC	Primulaceae
<i>Bromus diandrus</i> *	Ripgut Brome	AG	(FACU)	Poaceae
<i>Bromus hordeaceus</i> *	Soft Brome	AG	FACU-	Poaceae
<i>Bromus madritensis</i> ssp. <i>rubens</i> *	Red Brome	AG	NI	Poaceae
<i>Chamomilla suaveolens</i> *	Pineapple Weed	AH	FACU	Asteraceae
<i>Chenopodium album</i> *	Lambsquarters	AH	FAC	Chenopodiaceae
<i>Epilobium ciliatum</i> +	Northern Willow-herb	PH	FACW	Onagraceae
<i>Eryngium vaseyi</i> +	Coyotethistle	PH	FACW	Apiaceae
<i>Festuca arundinacea</i> *	Tall Fescue	PG	FAC-	Poaceae
<i>Lactuca serriola</i> *	Prickly Wild Lettuce	AH	FAC	Asteraceae
<i>Lepidium nitidum</i> +	Common Peppergrass	AH	-	Brassicaceae
<i>Lolium multiflorum</i> *	Italian Ryegrass	AG	FAC*	Poaceae
<i>Lotus corniculatus</i> *	Birdsfoot Trefoil	PH	FAC	Fabaceae
<i>Lythrum hyssopifolium</i> *	Hyssop Loosestrife	AH	FACW	Lythraceae
<i>Picris echioides</i> *	Bristly Ox-tongue	AH	(FAC)	Asteraceae
<i>Plantago erecta</i>	California Plantain	AH	-	Plantaginaceae
<i>Plantago lanceolata</i> *	English Plantain	PH	FAC-	Plantaginaceae
<i>Polygonum arenastrum</i> *	<i>Common Knotweed</i>	AH	FAC	Polygonaceae
<i>Polypogon monspeliensis</i> *	Rabbitsfoot Grass	AG	FACW+	Poaceae
<i>Pseudognaphalium luteoalbum</i> *	Everlasting Cudweed	AH	FACW-	Asteraceae
<i>Rumex acetosella</i> *	Common Sheep Sorrel	PH	FAC-	Polygonaceae
<i>Rumex crispus</i> *	Curly Dock	PH	FACW-	Polygonaceae
<i>Rumex pulcher</i> *	Fiddle Dock	PH	FAC+	Polygonaceae
<i>Xanthium strumarium</i> +	Cocklebur	AH	FAC+	Asteraceae
Upland Grassland (79 total, 18 native, 61 nonnative)				
<i>Aegilops triuncialis</i> *	Barbed Goatgrass	AG	-	Poaceae
<i>Aira caryophyllaea</i> *	Silver Hairgrass	AG	-	Poaceae
<i>Amsinckia menziesii</i>	Rancher's Fire	AH	-	Boraginaceae
<i>Asclepias fascicularis</i>	Narrowleaf Milkweed	PH	FAC	Apocynaceae
<i>Avena barbata</i> *	Slender Wild Oat	A/PG	-	Poaceae
<i>Avena fatua</i> *	Wild Oat	AG	-	Poaceae
<i>Brachypodium distachyon</i> *	Purple False Brome	A/PG	-	Poaceae
<i>Brassica nigra</i> *	Black Mustard	AH	-	Brassicaceae

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<i>Brassica rapa</i> *	Field Mustard	AH	-	Brassicaceae
<i>Briza minor</i> *	Little Quakinggrass	AG	FACW-	Poaceae
<i>Brodiaea coronaria</i>	Harvest Brodiaea	PH	(FAC)	Liliaceae
<i>Bromus carinatus</i>	California Brome	AG	-	Poaceae
<i>Bromus diandrus</i> *	Ripgut Brome	AG	(FACU)	Poaceae
<i>Bromus hordeaceus</i> *	Soft Brome	AG	FACU-	Poaceae
<i>Bromus madritensis ssp. rubens</i> *	Red Brome	AG	NI	Poaceae
<i>Carduus pycnocephalus</i> *	Italian Thistle	AH	-	Asteraceae
<i>Castilleja attenuata</i>	Valley Tassels	AH	-	Orobanchaceae
<i>Centaurea solstitialis</i> *	Yellow Star-thistle	AH	-	Asteraceae
<i>Cerastium glomeratum</i> *	Mouse-ear Chickweed	AH	FACU	Caryophyllaceae
<i>Chamomilla suaveolens</i> *	Pineapple Weed	AH	FACU	Asteraceae
<i>Cichorium intybus</i> *	Chicory	PH	-	Asteraceae
<i>Cirsium vulgare</i> *	Bull Thistle	PH	FACU	Asteraceae
<i>Convolvulus arvensis</i> *	Bind Weed	PV	-	Convolvulaceae
<i>Crassula tillaea</i> *	Water Pygmy-weed	AH	NI*	Crassulaceae
<i>Cynodon dactylon</i> *	Bermuda Grass	PG	FAC	Poaceae
<i>Daucus carota</i> *	Queen Anne's Lace	PH	-	Apiaceae
<i>Epilobium brachycarpum</i>	Tall Annual Willow-herb	AH	UPL	Onagraceae
<i>Eremocarpus setigerus</i>	Dove Weed	AH	-	Euphorbiaceae
<i>Erodium botrys</i> *	Broadleaf Filaree	AH	-	Geraniaceae
<i>Erodium moschatum</i> *	Whitestem Filaree	AH	-	Geraniaceae
<i>Euphorbia spathulata</i>	Warty Spurge	AH	-	Euphorbiaceae
<i>Galium aparine</i>	Goose Grass	AH	FACU	Rubiaceae
<i>Geranium dissectum</i> *	Cut-leaved Geranium	AH	-	Geraniaceae
<i>Grindelia camporum</i>	Great Valley Gumplant	PH	FACU	Asteraceae
<i>Hemizonia fitchii</i>	Fitch's Tarweed	AH	-	Asteraceae
<i>Hirschfeldia incana</i> *	Summer Mustard	PH	-	Brassicaceae
<i>Holocarpha virgata</i>	Yellowflower Tarweed	AH	-	Asteraceae
<i>Hordeum marinum ssp. gussoneanum</i> *	Mediterranean Barley	AG	FAC	Poaceae
<i>Hordeum murinum</i> *	Summer Barley	AG	NI	Poaceae
<i>Hypochaeris glabra</i> *	Smooth Cat's-ear	AH	-	Asteraceae
<i>Kickxia elatine</i> *	Arrowleaf Fluvellin	AH	NI*	Veronicaceae
<i>Lactuca serriola</i> *	Prickly Wild Lettuce	AH	FAC	Asteraceae
<i>Lathyrus angulatus</i> *	Angled Pea	AV	-	Fabaceae
<i>Lepidium nitidum</i>	Common Peppergrass	AH	-	Brassicaceae
<i>Lolium multiflorum</i> *	Italian Ryegrass	AG	FAC*	Poaceae
<i>Lotus corniculatus</i> *	Birdsfoot Trefoil	PH	FAC	Fabaceae
<i>Lotus purshianus</i>	Spanish Clover	AH	UPL	Fabaceae
<i>Malva parviflora</i> *	Cheeseweed	AH	-	Malvaceae
<i>Medicago polymorpha</i> *	Burclover	AH	-	Fabaceae

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<i>Paspalum dilatatum</i> *	Dallisgrass	PG	FAC	Poaceae
<i>Phalaris aquatica</i> *	Bulbous Canarygrass	PG	FAC+	Poaceae
<i>Phytolacca americana</i> *	American Pokeweed	PH	NI	Phytolaccaceae
<i>Picris echioides</i> *	Bristly Ox-tongue	AH	(FAC)	Asteraceae
<i>Plantago erecta</i>	California Plantain	AH	-	Plantaginaceae
<i>Plantago lanceolata</i> *	English Plantain	PH	FAC-	Plantaginaceae
<i>Poa annua</i> *	Annual Bluegrass	AG	FACW-	Poaceae
<i>Polygonum arenastrum</i> *	Common Knotweed	AH	FAC	Polygonaceae
<i>Raphanus raphanistrum</i> *	Wild Radish	A/PH	-	Brassicaceae
<i>Raphanus sativus</i> *	Radish	A/BH	-	Brassicaceae
<i>Rumex acetosella</i> *	Common Sheep Sorrel	PH	FAC-	Polygonaceae
<i>Rumex pulcher</i> *	Fiddle Dock	PH	FAC+	Polygonaceae
<i>Silene gallica</i> *	Windmill Pink	AH	-	Caryophyllaceae
<i>Silybum marianum</i> *	Milk Thistle	AH	-	Asteraceae
<i>Sonchus oleraceus</i> *	Common Sow-thistle	AH	NI*	Asteraceae
<i>Sorghum halepense</i> *	Johnsongrass	PG	FACU	Poaceae
<i>Spergularia rubra</i> *	Purple (Red) Sandspurrey	A/PH	FAC-	Caryophyllaceae
<i>Stellaria media</i> *	Common Chickweed	AH	FACU	Caryophyllaceae
<i>Taeniatherum caput-medusae</i> *	Medusahead	AG	-	Poaceae
<i>Tanacetum parthenium</i> *	Feverfew	PH	-	Asteraceae
<i>Taraxacum officinale</i> *	Dandelion	PH	FACU	Asteraceae
<i>Trichostema lanceolatum</i>	Vinegarweed	AH	-	Lamiaceae
<i>Trifolium dubium</i> *	Suckling Clover	AH	FACU*	Fabaceae
<i>Trifolium hirtum</i> *	Rose Clover	AH	-	Fabaceae
<i>Trifolium repens</i> *	White Clover	PH	FACU+	Fabaceae
<i>Triteleia laxa</i>	Ithuriel's Spear	PG	-	Liliaceae
<i>Vicia sativa</i> *	Common Vetch	AH	FACU	Fabaceae
<i>Vicia villosa</i> *	Hairy Vetch	AH	-	Fabaceae
<i>Vulpia bromoides</i> *	Brome Fescue	AG	FACW	Poaceae
<i>Wyethia angustifolia</i>	California Compassplant	PH	FACU-	Asteraceae