

Appendix E

Vegetative Species Observed at Erosion Sites



Appendix E
The Erosion Repair of 13 Bank Protection Sites
Vegetative Species Observed at Erosion Sites

<i>Scientific Nameⁱ</i> Common Name	Family	Erosion Sites												
		SB 16.6R	CS 21.8R	Sac 16.8L	Sac 42.7R	Sac 49.7L	Sac 52.3L	Sac 53.5R	Sac 55.2L	Sac 77.2L	Sac 177.8R	LAR 0.3L	LAR 2.8L	F 28.5R
<i>Acacia melanoxylon</i> * ^{†(L)} Blackwood acacia	Fabaceae				X	X								
<i>Acer negundo</i> var. <i>californicum</i> California box elder	Sapindaceae	X		X	X			X	X	X		X	X	X
<i>Acer saccharinum</i> * Silver maple	Sapindaceae								X					
<i>Ailanthus altissima</i> * ^{†(M)} Tree of heaven	Simarubaceae													X
<i>Alnus rhombifolia</i> White alder	Betulaceae	X	X	X									X	
<i>Ambrosia psilostachya</i> Western ragweed	Asteraceae		X		X									X
<i>Amsinckia menziesii</i> var. <i>intermedia</i> Common fiddleneck	Boraginaceae													X
<i>Anthriscus caucalis</i> * Bur-chervil	Apiaceae			X						X	X	X	X	X
<i>Apocynum cannabinum</i> Indianhemp	Apocynaceae	X		X	X									
<i>Artemisia douglasiana</i> California mugwort	Asteraceae	X		X	X			X		X	X	X	X	X
<i>Arundo donax</i> * ^{†(H)} Giant reed	Poaceae		X					X			X			

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<i>Avena sp.*†^(M)</i> Wild oat	Poaceae		X	X		X	X	X						X
<i>Baccharis pilularis</i> Coyote bush	Asteraceae									X	X			
<i>Baccharis salicifolia</i> Mulefat	Asteraceae									X				X
<i>Brassica nigra*†^(M)</i> Black mustard	Brassicaceae	X	X			X	X			X	X	X		X
<i>Bromus diandrus*†^(M)</i> Rip-gut brome	Poaceae	X	X	X	X	X	X	X		X	X	X	X	X
<i>Bromus hordeaceus*†^(L)</i> Soft brome	Poaceae				X									
<i>Calocedrus decurrens</i> Incense cedar	Cupressaceae									X				
<i>Capsella bursa-pastoris*</i> Shepherd's purse	Brassicaceae				X								X	
<i>Cardamine oligosperma</i> Few-seeded bittercress	Brassicaceae									X				X
<i>Carduus pycnocephalus*†^(M)</i> Italian thistle	Asteraceae			X	X			X						
<i>Carex nebrascensis</i> Nebraska sedge	Cyperaceae	X	X	X			X	X	X	X	X	X	X	X
<i>Centaurea solstitialis*†^(H)</i> Yellow star-thistle	Asteraceae					X	X	X			X	X	X	X
<i>Cephalanthus occidentalis</i> Buttonbush	Rubiaceae	X	X	X			X	X						X

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<i>Chenopodium album</i> * Lambsquarters	Amaranthaceae											X		X
<i>Chenopodium ambrosioides</i> * Mexican tea	Amaranthaceae				X				X		X			X
<i>Cichorium intybus</i> * Chicory	Asteraceae								X		X			X
<i>Claytonia perfoliata</i> Miner's lettuce	Portulacaceae	X		X							X		X	X
<i>Conium maculatum</i> *† ^(M) Poison hemlock	Apiaceae										X			
<i>Conyza canadensis</i> Horseweed	Asteraceae	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Cortaderia</i> sp.* † ^(H) Pampas grass	Poaceae									X				
<i>Cynodon dactylon</i> * † ^(M) Bermuda grass	Poaceae	X		X	X			X	X		X	X	X	X
<i>Cyperus eragrostis</i> Tall flatsedge	Cyperaceae	X	X									X	X	X
<i>Cyperus</i> sp.(*) Flatsedge	Cyperaceae				X				X		X			
<i>Descurania</i> sp.* † ^(L) Tansy mustard	Brassicaceae		X											
<i>Elymus glaucus</i> Blue wild rye	Poaceae				X			X	X		X	X	X	X
<i>Epilobium brachycarpum</i> Annual fireweed	Onagraceae				X	X	X	X	X	X	X	X	X	X

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<i>Equisetum</i> sp. Scouring rush	Equisetaceae	X		X	X		X	X	X	X	X	X	X	X
<i>Erodium botrys</i> * Broadleaf filaree	Geraniaceae	X	X	X				X			X			X
<i>Erodium cicutarium</i> * ^{†(L)} Redstem filaree	Geraniaceae	X	X		X			X		X	X		X	X
<i>Eschscholzia californica</i> California poppy	Papaveraceae		X											X
<i>Euphorbia crenulata</i> Chinese caps	Euphorbiaceae								X					X
<i>Euthamia occidentalis</i> Western goldenrod	Asteraceae	X									X		X	
<i>Foeniculum vulgare</i> * ^{†(H)} Sweet fennel	Apiaceae	X	X	X	X					X		X	X	
<i>Fraxinus latifolia</i> Oregon ash	Oleaceae	X					X	X	X	X				X
<i>Galium aparine</i> Common bedstraw	Rubiaceae			X	X	X	X	X	X	X	X	X		X
<i>Geranium dissectum</i> * ^{†(M)} Cutleaf geranium	Geraniaceae			X				X				X		X
<i>Geranium molle</i> * Dovefoot geranium	Geraniaceae							X		X				
<i>Glycyrrhiza lepidota</i> Wild licorice	Fabaceae								X					
<i>Gnaphalium luteo-album</i> * Jersey cudweed	Asteraceae											X		

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<i>Gnaphalium</i> sp.(*) Cudweed	Asteraceae						X			X			X	
<i>Hedera helix</i> *†(H) English ivy	Araliaceae								X					
<i>Helianthus annuus</i> Common sunflower	Asteraceae									X	X			
<i>Heterotheca grandiflora</i> Telegraph weed	Asteraceae	X				X	X	X				X		
<i>Hordeum murinum</i> *†(M) Hare barley	Poaceae			X	X									X
<i>Hydrocotyle verticillata</i> Water Pennywort	Araliaceae	X												
<i>Hypericum perforatum</i> *†(M) Klamathweed	Hypericaceae										X			
<i>Iris</i> sp.(*) Iris	Iridaceae									X				
<i>Juglans californica</i> California black walnut	Juglandaceae				X		X	X	X	X				X
<i>Juglans regia</i> * English walnut	Juglandaceae											X		
<i>Juncus effusus</i> Common rush	Juncaceae	X	X	X	X	X				X		X		X
<i>Juncus xiphioides</i> Iris-leaved rush	Juncaceae	X												
<i>Lactuca serriola</i> * Prickly lettuce	Asteraceae		X		X						X	X		X

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<i>Lactuca</i> sp.(*) Lettuce	Asteraceae												X	X
<i>Lactuca virosa</i> * Bitter lettuce	Asteraceae							X						
<i>Lamium amplexicaule</i> * Henbit	Lamiaceae	X		X	X									X
<i>Lathyrus jepsonii</i> var. <i>californicus</i> California tule pea	Fabaceae	X	X	X		X		X	X	X	X			X
<i>Lepidium latifolium</i> * ^{†(H)} Perennial pepperweed	Brassicaceae		X		X			X		X				
<i>Leymus triticoides</i> Creeping wild rye	Poaceae											X	X	X
<i>Ligustrum japonicum</i> * Japanese privet	Oleaceae								X					
<i>Lolium multiflorum</i> * ^{†(M)} Italian ryegrass	Poaceae		X							X		X		X
<i>Lolium perenne</i> * Perennial ryegrass	Poaceae									X				X
<i>Lonicera</i> sp.(*) Honeysuckle	Caprifoliaceae									X				
<i>Lupinus bicolor</i> Miniature lupine	Fabaceae	X								X				
<i>Lupinus</i> sp. Lupine	Fabaceae							X				X		X
<i>Malva parviflora</i> * Cheeseweed	Malvaceae	X		X	X	X	X	X		X		X		

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<i>Marah fabaceus</i> California wild cucumber	Cucurbitaceae												X	X	
<i>Marrubium vulgare</i> *† ^(L) White horehound	Lamiaceae												X		
<i>Melilotus alba</i> * White sweet-clover	Fabaceae		X		X				X		X	X			X
<i>Morus</i> sp.* Mulberry	Moraceae							X							
<i>Nicotiana glauca</i> *† ^(M) Tree tobacco	Solanaceae								X			X			X
<i>Oenothera elata</i> Hooker's evening-primrose	Onagraceae	X				X	X	X		X	X	X	X	X	X
<i>Oxalis pes-caprae</i> *† ^(M) Bermuda buttercup	Oxalidaceae	X		X					X		X				X
<i>Paspalum urvillei</i> * Vaseygrass	Poaceae		X	X											
<i>Phoradendron macrophyllum</i> Big-leaf mistletoe	Viscaceae	X		X	X	X	X	X	X	X	X	X	X	X	X
<i>Phoradendron villosum</i> Oak mistletoe	Viscaceae			X					X	X	X				
<i>Phytolacca americana</i> *† ^(L) American pokeweed	Phytolaccaceae														X
<i>Picris echioides</i> *† ^(L) Bristly ox-tongue	Asteraceae		X												
<i>Piptatherum miliaceum</i> *† ^(L) Smilgrass	Poaceae								X				X		X

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<i>Plantago lanceolata</i> *† ^(L) English plantain	Plantaginaceae										X	X		
<i>Platanus racemosa</i> Western sycamore	Platanaceae	X		X			X				X			X
<i>Poa annua</i> * Annual bluegrass	Poaceae								X					X
<i>Populus fremontii</i> Fremont's cottonwood	Salicaceae				X	X	X	X	X	X	X	X	X	X
<i>Prunus</i> sp.(*) (various cultivar names)	Rosaceae			X						X		X		
<i>Quercus agrifolia</i> * Coast live oak	Fagaceae			X										
<i>Quercus lobata</i> Valley oak	Fagaceae			X	X	X	X	X	X	X	X	X	X	X
<i>Quercus wislizenii</i> Interior live oak	Fagaceae								X				X	
<i>Raphanus sativus</i> *† ^(L) Wild radish	Brassicaceae	X	X	X	X	X	X	X			X	X	X	X
<i>Robinia pseudoacacia</i> *† ^(L) Black locust	Fabaceae				X	X		X						
<i>Rosa californica</i> California rose	Rosaceae		X	X					X		X		X	X
<i>Rubus discolor</i> *† ^(H) Himalayan blackberry	Rosaceae	X	X	X	X			X	X			X		X
<i>Rubus ursinus</i> California blackberry	Rosaceae			X	X			X	X		X		X	X

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<i>Rumex crispus</i> *† ^(L) Curly doc	Polygonaceae	X							X		X	X	X	X
<i>Rumex</i> sp.(*) Dock	Polygonaceae		X											
<i>Salix gooddingii</i> Goodding's black willow	Salicaceae	X		X	X	X	X	X			X	X	X	X
<i>Salix lasiolepis</i> Arroyo willow	Salicaceae		X			X	X							
<i>Salix exigua</i> Sandbar willow	Salicaceae										X			
<i>Salsola tragus</i> *† ^(L) Russian thistle	Amaranthaceae												X	
<i>Sambucus mexicana</i> Blue elderberry	Caprifoliaceae									X		X		X
<i>Schoenoplectus acutus</i> var. <i>occidentalis</i> Tule	Cyperaceae		X											
<i>Senecio vulgaris</i> * Common groundsel	Asteraceae			X	X	X	X	X	X	X		X		X
<i>Sesbania punicea</i> *† ^(H) Rattlebox	Fabaceae	X												
<i>Silybum marianum</i> *† ^(L) Milk thistle	Asteraceae	X	X	X	X					X	X		X	X
<i>Solanum americanum</i> American nightshade	Solanaceae								X	X	X			X
<i>Sonchus oleraceus</i> * Annual sowthistle	Asteraceae								X					

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<i>Sonchus</i> sp.* Sowthistle	Asteraceae										X			
<i>Sorghum halapense</i> * Johnson grass	Poaceae			X	X				X		X	X		X
<i>Soliva sessilis</i> * Soliva	Asteraceae										X			X
<i>Stellaria media</i> * Common chickweed	Caryophyllaceae			X	X	X	X	X				X	X	X
<i>Symphyotrichum lentum</i> Suisun marsh aster	Asteraceae	X	X	X										
<i>Toxicodendron diversilobum</i> Western poison oak	Anacardiaceae								X		X	X	X	
<i>Trifolium repens</i> * White clover	Fabaceae				X				X		X			
<i>Trifolium</i> sp.(*) Clover	Fabaceae		X								X		X	
<i>Triglochin maritima</i> Seaside arrow-grass	Juncaginaceae		X											
<i>Ulmus</i> sp.* Elm	Ulmaceae	X						X	X	X				
<i>Urtica dioica</i> Stinging nettle	Urticaceae			X										
<i>Verbascum blattaria</i> * Moth mullein	Scrophulariaceae		X									X		X
<i>Verbascum thapsus</i> * ^{†(L)} Woolly mullein	Scrophulariaceae				X							X		X

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<i>Verbena bonariensis</i> * Purpletop vervain	Verbenaceae		X						X			X	X	X	
<i>Vicia</i> sp.(*) Vetch	Fabaceae					X	X	X			X	X	X	X	X
<i>Vinca major</i> * ^{† (M)} Greater periwinkle	Apocynaceae								X						
<i>Vitis californica</i> California wild grape	Vitaceae			X	X	X	X	X	X	X	X	X	X	X	X
<i>Vulpia myuros</i> * ^{† (M)} Rattail fescue	Poaceae							X						X	
<i>Washingtonia</i> sp.* Fan palm	Arecaceae										X				
<i>Xanthium strumarium</i> Cocklebur	Asteraceae											X			X

ⁱ *Species not native to California (*) Some species in genus not native to California

[†] On CAL-IPC list of invasive species

H = High, **M** = Moderate, **L** = Limited.