

Appendix E4-1

**Plant Species list compiled for the Upper American River Project
during the 2000 Botanical Inventory**

Appendix Table E4-1. Plant species list compiled for the UARP during the 2000 botanical inventory.

General Location of SMUD Facility¹

White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
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PTERIDOPHYTES - FERNS AND ALLIES

BLECHNACEAE – DEER FERN FAMILY

<i>Woodwardia fimbriata</i> Giant chain fern	X	X	X								
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DENNSTAEDTIACEAE – BRACKEN FAMILY

<i>Pteridium aquilinum</i> var. <i>pubescens</i> Bracken fern		X	X	X	X	X	X	X	X	X	X
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DRYOPTERIDACEAE – WOOD FERN FAMILY

<i>Athyrium filix-femina</i> Lady fern	X	X	X	X	X	X	X		X		
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<i>Cystopteris fragilis</i> Fragile fern		X	X	X	X						
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<i>Dryopteris arguta</i> Wood fern		X	X	X							
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<i>Polystichum californicum</i> Sword fern		X	X								
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<i>Polystichum imbricans</i> Imbricate sword fern		X	X	X	X	X	X				
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EQUISETACEAE – HORSETAIL FAMILY

<i>Equisetum arvense</i> Common horsetail						X	X		X		X
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<i>Equisetum hymenale</i> Common scouring rush					X						
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OPHIOGLOSSACEAE – ADDER TONGUE FAMILY

<i>Botrychium multifidum</i> Leather grape-fern						X			X		
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POLYPODIACEAE – POLYPODY FAMILY

<i>Polypodium glycyrrhiza</i> Licorice fern	X	X	X	X	X						
--	---	---	---	---	---	--	--	--	--	--	--

PTERIDACEAE – BRAKE FAMILY

<i>Adiantum jordanii</i> Californis maiden-hair	X	X									
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<i>Aspidotis densa</i> Indian's dream				X	X	X				X	X
--	--	--	--	---	---	---	--	--	--	---	---

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General Location of SMUD Facility¹

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<i>Cheilanthes gracillima</i> Lace fern		X			X	X			X	X	X
<i>Cryptogramma acrostichoides</i> American parsley fern					X	X			X	X	X
<i>Pellaea andromedifolia</i> Coffee fern											
<i>Pellaea bridgesii</i> Cliff break					X	X			X	X	X
<i>Pellaea mucronata</i> var. <i>californica</i> Bird's foot fern	X	X		X							
<i>Pentagramma triangularis</i> Golden back fern	X	X	X		X	X			X		
SELAGINELLACEAE – SPIKE MOSS FAMILY											
<i>Selaginella</i> sp. Spike-moss											
GYMNOSPERMS – CONE BEARING PLANTS											
CUPRESSACEAE – CYPRESS FAMILY											
<i>Calocedrus decurrens</i> Incense cedar		X	X	X	X	X	X	X	X	X	X
<i>Juniperus communis</i> Common juniper											X
<i>Juniperus occidentalis</i> var. <i>australis</i> Western juniper										X	X
PINACEAE – PINE FAMILY											
<i>Abies concolor</i> White fir			X	X	X	X	X	X	X	X	X
<i>Abies magnifica</i> var. <i>magnifica</i> California red fir										X	X
<i>Pinus contorta</i> var. <i>murrayana</i> Lodgepole pine					X	X	X	X	X	X	X
<i>Pinus jeffreyi</i> Jeffrey pine					X	X	X	X	X	X	X
<i>Pinus lambertiana</i> Sugar pine		X	X	X	X	X	X	X	X	X	X

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<i>Pinus monticola</i> Western white pine										X	
<i>Pinus ponderosa</i> Pacific ponderosa pine	X	X	X	X	X	X	X	X	X		
<i>Pinus sabiniana</i> Foothill pine	X	X									
<i>Pseudotsuga menziesii</i> Douglas-fir	X	X	X	X	X	X					
<i>Tsuga mertensiana</i> Mountain hemlock										X	X
TAXACEAE – YEW FAMILY											
<i>Sequoia gigantea</i> Giant sequoia						X	X				
<i>Taxus brevifolia</i> Pacific yew			X	X							
<i>Torreya californica</i> Torreya		X	X	X							
ANGIOSPERMAE – FLOWERING PLANTS											
Dicots											
ACERACEAE – MAPLE FAMILY											
<i>Acer glabrum</i> Mountain maple					X	X				X	X
<i>Acer macrophyllum</i> Big-leaf maple	X	X	X	X							
ANACARDIACEAE – SUMAC FAMILY											
<i>Toxicodendron diversilobum</i> Western poison oak	X	X	X	X							
APIACEAE – CARROT FAMILY											
<i>Angelica breweri</i> Brewer's angelica						X	X		X	X	X
<i>Anthriscus acaulis</i> Bur chervil	X										
<i>-Daucus pusillus</i> Rattlesnake weed	X	X									

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<i>Heracleum lanatum</i> Cow parsnip						X				X	X
<i>Ligusticum californica</i> California lovage					X	X			X		
<i>Ligusticum grayi</i> Gray's lovage						X			X	X	X
<i>Lomatium</i> sp. Lomatium										X	
<i>Lomatium</i> sp. Lomatium					X						
<i>Osmorhiza chilensis</i> Sweet-cicely	X	X	X	X	X	X	X	X	X	X	X
<i>Osmorhiza brachypoda</i> California sweet cicely			X								
<i>Oxyopolis occidentalis</i> Cow bane						X					
<i>Perideridia lemmonii</i> Lemmon's yampa						X					
<i>Perideridia parishii</i> ssp. <i>latifolia</i> Parish's yampa						X	X		X	X	X
<i>Sanicula bipinnata</i> Poison sanicle	X	X		X							
<i>Sanicula crassicaulis</i> Pacific sanicle	X	X	X								
<i>Sanicula graveolens</i> Sierra sanicle											
<i>Sanicula tuberosa</i> Tuberous sanicle				X		X			X		X
<i>Tauschia hartwegii</i> Hartweg's tauschia		X	X	X							
<i>Torilis arvensis</i> Hedge parsley	X	X		X							
APOCYNACEAE – DOGBANE FAMILY											
<i>Apocynum androsaemifolium</i> Bitter dogbane			X	X	X	X	X	X	X	X	X

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ARALIACEAE – GINSENG FAMILY											
<i>Aralia californica</i> Elk clover		X	X	X							
ARISTOLOCHIACEAE – PIPEVINE FAMILY											
<i>Asarum lemmonii</i> Lemmon's wild-ginger						X					
ASCLEPIADACEAE – MILKWEED FAMILY											
<i>Asclepias cordifolia</i> Purple milkweed		X			X						
<i>Asclepias</i> sp. Milkweed											
ASTERACEAE - SUNFLOWER FAMILY											
<i>Achillea millefolium</i> Yarrow	X	X	X	X	X	X	X		X	X	X
<i>Adenocaulon bicolor</i> Trail marker			X	X	X	X	X		X		
<i>Agoseris grandiflora</i> Giant agoseris	X	X		X	X	X	X				
<i>Agoseris retrorsa</i> Spear-leaved agoseris		X		X		X			X		
<i>Antennaria</i> cf. <i>argenteus</i> Pussy toes					X	X					
<i>Anaphalis margaritacea</i> Pearly everlasting						X	X				
<i>Antennaria rosea</i> ssp. <i>confinis</i> Rosey everlasting										X	X
<i>Antennaria</i> sp. Pussy toes											
<i>Anthemis cotula</i> Dog fennel						X					
<i>Arnica amplexicaulis</i> Tall arnica						X					
<i>Arnica cordifolia</i> Heartleaved arnica					X		X				

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<i>Arnica parryi</i> ssp. <i>sonnei</i> Parry's Arnica						X					X
<i>Artemisia douglasiana</i> California mugwort	X	X	X	X	X	X					X
<i>Aster alpigenus</i> var. <i>andersonii</i> Alpine aster											X
<i>Aster breweri</i> Brewer's aster						X		X			
<i>Aster frondosus</i> Marsh aster						X					
<i>Aster integrifolius</i> Entire leaved aster						X		X	X	X	
<i>Aster oregonense</i> Oregon aster						X					
<i>Aster spathulata</i> var. <i>spathulata</i> Western mountain aster						X		X			X
<i>Aster</i> sp. Aster						X					
<i>Baccharis pilularis</i> Chaparral broom	X	X									
<i>Brickellia californica</i> California brickellbush						X				X	
<i>Calycadenia multiglandulosa</i> Calycadenia				X							
<i>Carduus pynchnocephalus</i> Italian thistle	X	X	X	X							
* <i>Centaurea solstitialis</i> Yellow star-thistle	X	X		X		X					
<i>Chaenactis douglasii</i> var. <i>douglasii</i> Hoary chaenactis							X	X			
<i>Cirsium andersonii</i> Anderson's thistle					X	X		X			
<i>Cirsium occidentale</i> var. <i>californicum</i> California thistle	X	X		X	X	X		X			

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* <i>Cirsium vulgare</i> Bull thistle	X	X	X	X	X	X	X		X		
* <i>Conyza canadensis</i> Horseweed						X					
<i>Ericameria</i> sp. Goldenbush			X			X					
<i>Erigeron breweri</i> Brewer's fleabane					X	X	X			X	X
<i>Erigeron (cf inornatus)</i> California rayless daisy				X	X	X	X		X		
<i>Erigeron foliosus</i> Leafy daisy		X			X						
<i>Erigeron lassenianus</i> Lassen daisy							X		X		
<i>Erigeron peregrinus var callianthemus</i> Wandering daisy									X	X	X
<i>Erigeron petrophilus</i> Rock daisy				X	X						
<i>Erigeron philadelphicus</i> Philadelphia daisy		X									
<i>Eriophyllum lanatum var. integrifolium</i> Oregon sunshine											X
<i>Eriophyllum lanatum.</i> Woolly sunflower	X	X	X	X	X	X	X	X	X		
<i>Eupatorium occidentale</i> Western eupatorium							X	X	X	X	
<i>Filago californica</i> California filago	X	X		X							
<i>Filago gallica</i> Filago	X										
<i>Gnaphalium</i> sp. Cudweed		X							X		
<i>Gnaphalium californica</i> California cudweed	X										

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<i>Gnaphalium canescens</i> Canescent cudweed				X	X	X					
<i>Gnaphalium palustre</i> Cudweed						X					
<i>Gnaphalium stramineum</i> Slender cotton batting plant						X					
* <i>Hedyponis cretica</i> Crete hedyponis					X	X					
<i>Helenium bigelovii</i> Bigelow's sneezweed	X					X			X		
<i>Helianthella californica</i> California helianthella				X		X					
<i>Hieracium albiflorum</i> White flowered hawkweed	X	X	X	X	X	X	X	X	X	X	X
* <i>Hypochaeris glabra</i> Smooth cat's ear	X	X	X	X							
* <i>Hypochaeris radicata</i> Cat's ear	X	X									
* <i>Lactuca serriola</i> Prickly lettuce		X		X	X	X			X		
* <i>Lactuca virosa</i> Wild lettuce											
* <i>Leucanthemum vulgare</i> Ox-eye daisy		X			X	X					
<i>Madia bolanderi</i> Bolander's tarweed						X					
<i>Madia elegans</i> Elegant tarweed	X		X	X		X	X		X		
<i>Madia exigua</i> Small tarweed											X
<i>Madia gracilis</i> Slender tarweed	X	X	X	X	X	X	X				
<i>Madia minima</i> Hemizonella	X	X	X	X	X	X	X	X	X	X	X

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<i>Microseris lacinata</i> Cut leaf scorzonella	X										
<i>Microseris nutans</i> Nodding scorzonella						X			X	X	X
<i>Matricaria suaveoluns</i> Chamomile						X					
<i>Phalacroseris bolanderi</i> Bolander's dandelion						X					
<i>Rudbeckia occidentalis</i> var. <i>occidentalis</i> Black heads					X	X					
<i>Senecio clarkianus</i> Clark's butterwort						X					
<i>Senecio integerrimus</i> var. <i>exaltatus</i> Single stemmed butterwort				X	X	X	X		X	X	X
<i>Senecio triangularis</i> Triangle leaved butterweed					X	X	X		X		
<i>Solidago canadensis</i> ssp. <i>elongata</i> California goldenrod					X	X	X		X	X	X
<i>Solidago</i> sp. Goldenrod											
* <i>Sonchus asper</i> Prickly sow thistle	X		X								
* <i>Sonchus oleraceus</i> Common sow thistle	X										
<i>Stephanomeria latucina</i> Lange flowered stephanomeria		X				X	X		X		
* <i>Taraxacum officinale</i> Common dandelion						X					
* <i>Tragopogon dubius</i> Yellow goat's beard	X	X	X	X	X	X	X				
<i>Whitneya dealbata</i> Whitneya						X			X		
<i>Wyethia angustifolia</i> Narrow-leaved mules ears						X					

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<i>Wyethia mollis</i> Woolly mules ears									X	X	X
BERBERIDACEAE – BARBERRY FAMILY											
<i>Berberis aquifolium</i> Oregon grape							X				
BETULACEAE- BIRCH FAMILY											
<i>Alnus rhombifolia</i> White alder	X	X	X	X							
<i>Alnus incana</i> ssp. <i>tenifolia</i> Mountain alder			X	X	X	X	X	X	X	X	X
<i>Corylus cornuta</i> var. <i>californica</i> Hazelnut	X	X	X	X	X	X	X		X		
BORAGINACEAE – BORAGE FAMILY											
<i>Cryptantha</i> sp.			X	X	X	X					
<i>Cryptantha affinis</i> Common cryptantha						X	X		X	X	X
<i>Cryptantha intermedia</i> Intermediate cryptantha							X				
<i>Cynoglossum occidentale</i> Western hounds tongue			X			X	X				
BRASSICACEAE – MUSTARD FAMILY											
<i>Arabis glabra</i> Glabrous rockcress		X	X	X	X						
<i>Arabis platysperma</i> Flat-seeded rockcress						X	X		X		
<i>Arabis rectissima</i> Bristly leaved rock cress									X	X	
<i>Arabis</i> sp. Rock cress						X					
<i>Barbarea orthoceras</i> Winter cress		X	X	X	X	X	X				
<i>Cardamine oligosperma</i> ⁺ Few seeded bitter cress		X	X			X					

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<i>Erysimum capitatum</i> ssp. <i>capitatum</i> Western wallflower	X	X		X	X	X	X		X		
* <i>Hirschfeldia incana</i> Yellow mustard	X	X									
<i>Lepidium nitidum</i> Peppergrass	X	X		X		X			X		
* <i>Raphanus sativus</i> Wild radish											
<i>Rorippa curvisiliqua</i> Water cress						X					
<i>Rorippa nasturtium-aquaticum</i> Water cress		X									
* <i>Sisymbrium altissimum</i> Tumble mustard											
* <i>Sisymbrium officinale</i> Hedge mustard											
<i>Streptanthus tortuosus</i> var. <i>tortuosus</i> Mountain streptantha		X	X		X	X	X		X	X	X
<i>Thysanocarpus curvipes</i> Lacepod	X	X		X	X						
CALLITRICHACEAE – WATER-STARWORT FAMILY											
<i>Callitriche verna</i> Water-starwort											
CAMPANULACEAE – BLUEBELL FAMILY											
<i>Campanula prenanthoides</i> [†] Harebell		X		X	X	X	X				
<i>Githopsis diffusa</i> Southern bluecup				X							
<i>Heterocodon rariflorum</i> Heterocodon				X		X			X	X	X
CAPRIFOLIACEAE – HONEYSUCKLE FAMILY											
<i>Lonicera caurina</i> Mountain fly honeysuckle							X		X	X	X
<i>Lonicera conjugialis</i> Double honeysuckle					X	X			X		

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<i>Lonicera hispidula</i> var. <i>vacillans</i> Hairy honeysuckle	X	X		X							
<i>Lonicera involucrata</i> var. <i>involucrata</i> Black twinberry					X	X					
<i>Lonicera interrupta</i> Chaparral honeysuckle	X		X	X							
<i>Sambucus mexicana</i> Valley elderberry				X	X			X			
<i>Symphoricarpos mollis</i> Creeping snowberry	X		X	X	X	X	X	X	X	X	X
<i>Symphoricarpos alba</i> var. <i>laevigatum</i> Snowberry					X	X					
CARYOPHYLLACEAE – PINK FAMILY											
<i>Arenaria kingii</i> var. <i>glabrescens</i> King's arenaria										X	X
* <i>Cerastium fontanum</i> ssp. <i>vulgare</i> mouse eared chickweed				X	X	X	X	X	X		
* <i>Dianthus armeria</i> ssp. <i>armeria</i> Meadow pink		X									
* <i>Herniaria hirsute</i> ssp. <i>hirsuta</i> Rose campion					X						
<i>Sagina saginoides</i> Pearlwort						X					
* <i>Scleranthus annuus</i> ssp. <i>annuus</i> Knawl		X			X						
<i>Silene californica</i> Indian pink	X	X									
<i>Silene douglasii</i> Douglas' silene										X	X
* <i>Silene gallica</i> Catch fly		X									
<i>Silene lemmonii</i> Lemmon's silene			X	X	X	X	X	X	X	X	
<i>Spergularia rubra</i> ⁺ Sand-spurry		X	X		X	X	X				

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CHENOPODIACEAE – GOOSEFOOT FAMILY											
* <i>Chenopodium botrys</i> Jerusalem oak	X	X	X	X	X	X	X	X	X	X	X
CONVOLVULACEAE – MORNING-GLORY FAMILY											
<i>Calystegia malacophylla</i> ssp. <i>malacophylla</i> Sierra morning glory					X	X			X		
<i>Calystegia occidentalis</i> Western morning glory	X		X	X							
* <i>Convolvulus arvensis</i> Bindweed	X										
CORNACEAE – DOGWOOD FAMILY											
<i>Cornus nuttallii</i> Mountain dogwood			X	X							
<i>Cornus sericea</i> American dogwood				X	X	X	X		X	X	X
<i>Cornus sessilis</i> Miner's dogwood	X	X	X	X							
CRASSULACEAE – STONECROP FAMILY											
<i>Dudleya cymosa</i> Hen-n-chickens	X	X	X	X	X						
<i>Sedum obtusatum</i> ssp. <i>obtusatum</i> Sierra stonecrop					X					X	X
<i>Sedum spathulifolium</i> Pacific stonecrop		X	X	X	X						
<i>Sedum stenopetalum</i> Star fruited stonecrop		X		X	X						
CUCURBITACEAE – GOURD FAMILY											
<i>Marah watsonii</i> Watson's man-root			X	X							
DATISCAEAE – datisca family											
<i>Datisca glomerata</i> Durango root	X	X									
Droseraceae – sundew FAMILY											
<i>Drosera rotundifolia</i> Round leaf sundew							X				

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
ERICACEAE – HEATH FAMILY											
<i>Arbutus menziesii</i> Pacific madrone	X	X									
<i>Arctostaphylos</i> cf. <i>mewukka</i> Manzanita					X						
<i>Arctostaphylos manzanita</i> Common manzanita											
<i>Arctostaphylos nevadensis</i> Pinemat manzanita					X		X		X	X	X
<i>Arctostaphylos patula</i> Green leaf manzanita				X	X	X	X	X	X	X	X
<i>Arctostaphylos viscida</i> White leaf manzanita	X	X	X	X	X						
<i>Chimaphila menziesii</i> Little prince's pine			X		X	X	X		X	X	X
<i>Chimaphila umbellatum</i> Prince's pine				X	X	X	X		X	X	X
<i>Gaultheria ovatifolia</i> Oregon spicy wintergreen					X						
<i>Heteromeles arbutifolia</i> Toyon	X	X									
<i>Leucothoe davisiae</i> Sierra laurel					X	X					X
<i>Orthilia secunda</i> One sided wintergreen						X	X		X	X	X
<i>Phyllodoce breweri</i> Mountain heather											X
<i>Pleurocospora fimbriolata</i> Fringed pine sap									X		
<i>Pterospora andromedea</i> Pinedrops					X	X	X		X	X	X
<i>Pyrola picta</i> White veined wintergreen				X	X	X	X		X		
<i>Pyrola</i> sp. ⁺ Wintergreen											

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

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<i>Rhododendron occidentale</i> Western azalea		X	X		X	X	X		X		
<i>Sarcodes sanguinea</i> Snow plant					X	X	X		X		
<i>Vaccinium parvifolium</i> Small leaf huckleberry					X						
<i>Vaccinium uliginosum</i> Bog huckleberry										X	
EUPHORBIACEAE – SPURGE FAMILY											
<i>Chamaescyce serpyllifolia</i> Thyme-leaved spurge						X					
FABACEAE – PEA FAMILY											
* <i>Cytisus scoparius</i> Scotch broom	X										
<i>Cercis occidentalis</i> Blazing star											
<i>Lathyrus sulphureus</i> Sulfur pea		X	X	X							
* <i>Lathyrus latifolius</i> Perennial sweet pea											
<i>Lathyrus lanszwertii</i> var. <i>aridus</i> Lanszwert's pea											
* <i>Lathyrus odoratus</i> Sweet pea											
<i>Lotus argophyllus</i> ssp. <i>argophyllus</i> Birdsfoot trefoil		X									
* <i>Lotus corniculatus</i> Birdsfoot trefoil											
<i>Lotus crassifolius</i> Buck clover						X	X		X	X	X
<i>Lotus denticulatus</i> Toothed lotus		X		X							
<i>Lotus humistratus</i> Short pod lotus	X	X									

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General Location of SMUD Facility¹

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<i>Lotus nevadensis</i> var. <i>nevadensis</i> Sierra lotus						X	X	X	X		
<i>Lotus oblongifolius</i> Narrow leaved lotus				X	X	X	X	X	X	X	X
<i>Lotus purshianus</i> Spanish clover		X	X	X	X	X	X	X	X	X	X
<i>Lupinus albifrons</i> var. <i>albifrons</i> Silver lupine	X	X									
<i>Lupinus benthamii</i> Bentham's lupine		X									
<i>Lupinus bicolor</i> Miniature lupine		X									
<i>Lupinus fulcratus</i> California green-stipuled lupine											
<i>Lupinus grayi</i> Gray lupine				X	X	X					
<i>Lupinus latifolius</i> var. <i>columbianus</i> Broad-leaved lupine				X	X	X	X	X	X	X	X
<i>Lupinus lepidus</i> var. <i>lobbii</i> Lobb's dwarf lupine											X
<i>Lupinus lepidus</i> var. <i>sellulus</i> Torrey's dwarf lupine						X	X		X		
<i>Lupinus microcarpus</i> Dwarf lupine		X									
<i>Lupinus polyphyllus</i> var. <i>burkei</i> Large-leaved lupine						X	X			X	X
<i>Lupinus striversii</i> Harlequin lupine	X	X									
<i>Medicago lupulina</i> Black medic	X										
<i>Medicago sativa</i> Alfalfa					X						
<i>Melilotus alba</i> White sweetclover	X	X	X	X	X	X	X	X	X	X	

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
* <i>Trifolium ciliolatum</i> Tree clover	X	X		X							
* <i>Trifolium dubium</i> Little hop clover	X										
* <i>Trifolium hirtum</i> Rose clover	X	X									
<i>Trifolium microcephalum</i> Small-headed clover	X	X		X		X					
* <i>Trifolium obtusilobum</i> Creek clover		X									
* <i>Trifolium pratense</i> Red clover	X		X								
* <i>Trifolium repens</i> White clover	X						X		X		
<i>Trifolium wildenovii</i> ⁺ Tomcat clover	X	X		X	X	X	X				
<i>Trifolium wormskjoldii</i> Mountain clover						X	X				
* <i>Trifolium subterraneum</i> Subterranean clover											
* <i>Trifolium variegatum</i> White tipped clover				X	X	X	X				
* <i>Vicia americana ssp americana</i> American vetch						X					
* <i>Vicia hirsuta</i> Hairy vetch	X										
* <i>Vicia sativa</i> Common vetch	X										
<i>Vicia sp.</i> ⁺ Vetch											
* <i>Vicia villosa ssp. varia</i> Winter vetch	X	X	X								
FAGACEAE – OAK FAMILY											
<i>Chrysolepis sempervirens</i> Bush chinquapin						X	X	X		X	X

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General Location of SMUD Facility¹

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<i>Lithocarpus densiflorus</i> Tan oak			X	X		X					
<i>Quercus chrysolepsis</i> Canyon live oak	X	X	X	X	X	X	X	X			
<i>Quercus kelloggii</i> California black oak	X	X	X	X	X	X	X	X	X		
<i>Quercus lobata</i> Valley oak											
<i>Quercus vaccinifolia</i> Huckleberry oak					X	X	X	X	X	X	X
<i>Quercus wislizenii</i> Interior live oak	X	X	X								
GARRYACEAE – SILK TASSEL FAMILY											
<i>Garrya fremontii</i> Fremont's silktassel		X			X						
GENTIANACEAE – GENTIAN FAMILY											
<i>Swertia radiata</i> Monument plant											
GERANIACEAE – GERANIUM FAMILY											
<i>Erodium botrys</i> Storksbill	X										
<i>Erodium cicutarium</i> Red-stemmed filaree	X	X				X					
<i>Geranium dissectum</i> Geranium	X	X									
<i>Geranium molle</i> Geranium	X										
<i>Geranium richardsonii</i> Richard's geranium	X										
GROSSULARIACEAE – GOOSEBERRY FAMILY											
<i>Ribes nevadense</i> Gooseberry		X		X	X	X					
<i>Ribes roezlii</i> Sierra Gooseberry	X	X	X	X	X	X	X	X	X	X	X

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General Location of SMUD Facility¹

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<i>Ribes viscosissimum</i> Sticky current						X	X			X	
HIPPOCASTANACEAE – BUCKEYE FAMILY											
<i>Aesculus californica</i> California buckeye	X	X	X	X							
HYDROPHYLLACEAE – WATERLEAF FAMILY											
<i>Draperia systyla</i> Draperia		X	X	X	X	X	X				
<i>Eriodyction californica</i> Yerba santa				X							
<i>Hydrophyllum occidentale</i> Woolen breeches					X						
<i>Nama demissum</i> Purple mat										X	
<i>Nemophila maculata</i> Fivespot											
<i>Nemophila parviflora</i> var. <i>austinae</i> Small flowered nemophila	X	X	X								
<i>Phacelia cicutaria</i> Caterpillar phacelia											
<i>Phacelia hastata</i> Silver-leaf phacelia				X	X	X	X		X		
<i>Phacelia heterophylly</i> ssp. <i>virgata</i> Virgate phacelia	X		X	X	X						
<i>Phacelia hydrophylloides</i> Waterleaf phacelia										X	
<i>Phacelia imbricata</i> ssp. <i>imbricata</i> Imbricate phacelia		X									
<i>Phacelia mutabilis</i> Changeable phacelia											
<i>Phacelia purpusii</i> Purpus's phacelia				X							
<i>Phacelia quickii</i> Quick's phacelia						X	X		X	X	X

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General Location of SMUD Facility¹

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<i>Phacelia racemosa</i> Racemose phacelia				X		X					
<i>Phacelia ramosissima</i> Branching phacelia	X										
<i>Phacelia stebbinsii</i> Stebbin's phacelia				X	X					X	
<i>Phacelia vallicola</i> Mariposa phacelia				X							
HYPERICACEAE – ST JOHN'S-WORT FAMILY											
<i>Hypericum anagalloides</i> Tinker's penny		X	X	X	X	X	X		X	X	X
* <i>Hypericum formosum</i> var. <i>scouleri</i> Scouler's St. Johns wort							X				
* <i>Hypericum perforatum</i> Klamathweed	X	X	X	X	X	X	X	X	X		
LAMIACEAE – MINT FAMILY											
<i>Agastache urticifolia</i> Horsemint						X	X			X	X
* <i>Mentha pulegium</i> Pennyroyal											
<i>Monardella lanceolata</i> Mustang mint				X	X						
<i>Monardella odoratissima</i> ssp. <i>pallida</i> Mountain monardella		X		X	X	X	X		X		
<i>Monardella sheltonii</i> Shelton's monardella											
<i>Monardella</i> sp. Monardella											
<i>Prunella vulgaris</i> var. <i>lanceolata</i> Self-heal	X	X	X	X	X	X	X	X	X	X	X
<i>Scutellaria californica</i> California skullcap		X		X	X				X		
<i>Scutellaria</i> Skullcap	X										

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General Location of SMUD Facility¹

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<i>Stachys ajugoides</i> Hedge nettle		X			X	X	X		X		
LAURACEAE – LAUREL FAMILY											
<i>Umbellularia californica</i> California bay	X	X		X							
LIMNANTHACEAE – MEADOW FOAM FAMILY											
<i>Limnanthes</i> sp. Meadow foam				X							
LOASACEAE – LOASA FAMILY											
<i>Mentzelia albicaulis</i> Blazing star							X				
<i>Mentzelia dispersa</i> Blazing star							X				
MALVACEAE – MALLOW FAMILY											
<i>Sidalcea maelviflora</i> Checker mallow	X			X							
<i>Sidalcea glaucescens</i> Glaucous sidalcea						X	X		X	X	X
<i>Sidalcea reptans</i> Creeping checker						X	X				
MYRICACEAE – WAX MYRTLE FAMILY											
<i>Myrica hartwegii</i> Sierra sweet bay					X						
NYMPHAEACEAE – WATERLILY FAMILY											
<i>Nuphar luteum</i> ssp. <i>polysepalum</i> Yellow pond lily										X	X
OLEACEAE – OLIVE FAMILY											
<i>Fraxinus dipetala</i> Chaparral ash		X									
ONAGRACEAE – EVENING-PRIMROSE FAMILY											
<i>Circaea alpina</i> Enchanter's nightshade						X	X			X	X
<i>Clarkia biloba</i> Two-lobed clarkia		X									

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<i>Clarkia heterandra</i> California gaura	X										
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i> Purple clarkia	X	X									
<i>Clarkia rhomboidea</i> Rhomboid clarkia		X	X		X	X	X				
<i>Clarkia williamsii</i> William's clarkia				X							
<i>Clarkia</i> sp. Clarkia											
<i>Epilobium angustifolium</i> ssp. <i>circumvagum</i> Fireweed					X	X	X			X	X
<i>Epilobium brachycarpum</i> Panicked willow-herb	X						X				X
<i>Epilobium canum</i> California fuchsia							X				
<i>Epilobium ciliatum</i> Northern willow-herb		X				X	X		X	X	X
<i>Epilobium glaberrimum</i> ssp. <i>glaberrimum</i> Glaucous willow herb					X	X	X		X	X	X
<i>Epilobium minutum</i> Mini-fireweed			X	X	X	X	X	X		X	
<i>Epilobium</i> sp. "White-wet-slender-hairy-perennial-turions"						X	X		X		
<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i> Gayophytum	X	X	X	X	X	X	X	X	X	X	X
PAPAVERACEAE – POPPY FAMILY											
<i>Dicentra formosa</i> Bleeding heart			X	X	X	X	X	X			
<i>Eschscholzia californica</i> California poppy	X										
PHILADELPHACEAE – MOCK ORANGE FAMILY											
<i>Philadelphus lewisii</i> Mock orange	X	X	X	X	X						
PLANTAGINACEAE – PLANTAIN FAMILY											

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* <i>Plantago lanceolata</i> English plantain	X	X	X	X	X	X	X	X	X	X	X
* <i>Plantago major</i> Common plantain	X	X									

POLEMONIACEAE – PHLOX FAMILY

<i>Allopyllum integrifolium</i> Entire leaved allophyllum						X	X				
<i>Collomia grandiflora</i> Large-flowered collomia					X	X	X				
<i>Collomia heterophylla</i> Varied leaved collomia	X	X	X	X	X	X	X				
<i>Gilia capitata</i> Blue field gilia	X	X	X	X	X						
<i>Gilia leptaelea</i> Bridge's gilia						X			X	X	X
<i>Isomopsis aggregata</i> Scarlet gilia							X				
<i>Linanthus ciliatus</i> Wisker brush				X	X	X	X		X		
<i>Linanthus montanus</i> Mustang clover	X	X									
<i>Navarretia divaricata</i> ssp. <i>divaricata</i> Mountain navarretia				X	X		X		X	X	X
<i>Phlox diffusa</i> Spreading phlox					X	X			X	X	X
<i>Phlox</i> sp. Phlox											

POLYGALACEAE – MILKWORT FAMILY

<i>Polygala cornuta</i> var. <i>cornuta</i> Milkwort		X	X	X							
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POLYGONACEAE – BUCKWHEAT FAMILY

<i>Chorizanthe membranacea</i> Pink chorizanth	X	X									
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<i>Eriogonum incanum</i> Hoary buckwheat									X	X	X
<i>Eriogonum nudum</i> Naked-stemmed buckwheat	X	X	X	X	X	X	X	X	X	X	X
<i>Eriogonum</i> cf. <i>umbellatum</i> Sulphur buckwheat							X		X		
<i>Eriogonum ursinus</i> Bear Valley buckwheat										X	
<i>Eriogonum</i> cf. <i>wrightii</i> Wright's buckwheat									X	X	X
<i>Polygonum bistortoides</i> Western bistort						X	X				
<i>Polygonum douglasii</i> ssp. <i>johnstonii</i> Douglas's knotweed									X		
<i>Polygonum minimum</i> Leafy dwarf knotweed										X	
<i>Polygonum parryi</i> Parry's knotweed				X							
<i>Polygonum phytolaccifolium</i> Alpine knotweed									X		
<i>Polygonum polygaloides</i> ssp. <i>kelloggii</i> Kellogg's knotweed										X	X
<i>Polygonum</i> sp. Polygonum		X									
<i>Pterostegia drymarioides</i> Pterostegia	X										
* <i>Rumex acetosella</i> Sheep sorrel	X	X	X	X	X	X	X	X	X	X	X
* <i>Rumex crispus</i> Curley dock	X	X			X						
<i>Rumex salicifolius</i> Willow leaved dock	X				X						
PORTULACACEAE – PURSULANE FAMILY											
<i>Claytonia perfoliata</i> Miner's lettuce	X	X			X						

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<i>Claytonia sibirica</i> Siberian lettuce					X	X	X				
<i>Calyptidium umbellatum</i> Pussy paws				X	X	X	X	X	X	X	X
<i>Montia parviflora</i> Small-leaved montia		X	X	X	X						
PRIMULACEAE – PRIMROSE FAMILY											
<i>Trientalis latifolia</i> Starflower		X	X	X	X	X	X		X		
RANUNCULACEAE – BUTTERCUP FAMILY											
<i>Actaea rubra</i> Baneberry					X		X				
<i>Aquilegia formosa</i> Columbine					X	X	X		X	X	X
<i>Clematis lasiantha</i> Chaparral clematis	X	X									
<i>Clematis ligusticifolia</i> Western virgins bower	X	X	X								
<i>Delphinium</i> sp. Larkspur			X	X	X	X	X				
<i>Ranunculus alisimifolius</i> var. <i>alismellus</i> Water plantain buttercup											
<i>Ranunculus flammulina</i> Creeping buttercup							X		X	X	X
<i>Ranunculus hebecarpus</i> Pubescent-fruited buttercup	X										
<i>Ranunculus occidentalis</i> Western buttercup		X		X		X	X				
<i>Ranunculus repens</i> Creeping crowfoot						X	X		X		
<i>Thalictrum fendleri</i> Fendler's meadow rue						X	X				X
<i>Thalictrum</i> sp. ⁺ Meadow rue											
RHAMNACEAE – BUCKTHORN FAMILY											

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<i>Ceanothus cordulatus</i> Mountain whitethorn					X	X	X	X	X	X	X
<i>Ceanothus cuneatus</i> var. <i>cuneatus</i> Wedge leaf ceanothus										X	X
<i>Ceanothus parvifolius</i> Little leaf ceanothus					X						
<i>Ceanothus prostratus</i> Mahala mat					X	X	X		X		
<i>Ceanothus integerrimus</i> Deerbrush	X	X	X	X	X						
<i>Rhamnus purshiana</i> Casacara sagrada		X									
<i>Rhamnus ilicifolius</i> Holly leaf coffeeberry	X	X	X								
<i>Rhamnus rubra</i> Sierra coffeeberry		X	X	X	X	X	X	X	X	X	X
<i>Rhamnus tomentella</i> Hoary coffeeberry	X	X									
ROSACEAE – ROSE FAMILY											
<i>Adenostoma fasciculatum</i> Chamise	X										
<i>Amelanchier alnifolia</i> Service-berry		X	X	X	X	X	X	X	X	X	X
<i>Amelanchier</i> cf. <i>utahensis</i> Utah service-berry				X	X	X					
<i>Cercocarpus betuloides</i> Birchleaf mountain mahogany											
<i>Chamaebaita foliolosa</i> Mountain misery	X			X	X	X			X		
<i>Fragaria vesca</i> Woods strawberry			X	X	X	X	X		X		X
<i>Fragaria virginiana</i> Broad petaled strawberry						X	X		X	X	X
<i>Geum macrophyllum</i> Bigleaf avens					X	X	X	X	X	X	X

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Holodiscus microphyllus</i> var. <i>microphyllus</i> Cream bush					X	X			X	X	X
<i>Horkelia fusca</i> Dusky horkelia				X							
<i>Horkelia tridentata</i> ssp. <i>tridentata</i> Three-toothed horkelia				X		X	X		X	X	X
<i>Ivesia santolinoides</i> Mousetail ivesia											X
<i>Physocarpus capitatus</i> Ninebark	X	X		X							
<i>Potentilla glandulosa</i> Sticky cinquefoil		X	X	X	X	X	X	X	X	X	X
<i>Potentilla gracilis</i> Slender cinquefoil									X	X	X
<i>Prunus emarginata</i> Bittercherry				X	X	X	X	X	X	X	X
<i>Prunus subcordata</i> Sierra plum				X	X						
<i>Prunus virginiana</i> var. <i>demissa</i> Western choke cherry									X		
<i>Rosa bridgesii</i> Bridge's rose				X	X				X		
<i>Rosa gymnocarpa</i> Wood rose		X	X	X		X					
<i>Rosa</i> sp. Wild rose									X		
* <i>Rubus discolor</i> Himalayan blackberry	x	X	X	X							
<i>Rubus glaucifolius</i> Glaucous blackberry				X							
* <i>Rubus laciniatus</i> Cut-leaved blackberry	X	X									
<i>Rubus leucodermis</i> Blackcap raspberry	X										

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Rubus parviflorus</i> Thimbleberry	X	X	X	X	X	X	X				
<i>Rubus ursinus</i> California blackberry	X	X	X								
<i>Sorbus californica</i> Mountain ash					X				X	X	X
<i>Spiraea densiflora</i> Mountain spiraea				X	X	X	X		X	X	X
RUBIACEAE – MADDER FAMILY											
<i>Galium aparine</i> ⁺ Goosegrass	X	X	X	X	X	X	X				
<i>Galium bolanderi</i> ⁺ Bolander's bedstraw	X	X	X	X	X				X		
<i>Galium parisiense</i> ⁺ Bedstraw			X	X							
<i>Galium porrigen var porrigen</i> ⁺ Climbing bedstraw	X	X		X							
<i>Galium sparsifolium</i> ⁺ Sequoia bedstraw			X	X							
<i>Galium triflorum</i> ⁺ Fragrant bedstraw			X	X	X	X			X		
<i>Galium trifidum</i> ⁺ Trifid bedstraw						X				X	X
<i>Kelloggia galioides</i> ⁺ Kelloggia			X	X	X	X	X	X	X	X	X
SALICACEAE – WILLOW FAMILY											
<i>Populus balsamifera var. trichocarpa</i> Black cottonwood		X							X	X	
<i>Populus fremontii ssp. fremontii</i> Fremont cottonwood	X	X	X	X	X						X
<i>Populus tremuloides</i> Quaking aspen											X
<i>Salix exigua</i> Sandbar willow	X	X	X	X	X	X					

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Salix laevigata</i> Tree willow									X		
<i>Salix lasiolepis</i> Arroyo willow	X	X	X	X	X	X	X	X	X	X	X
<i>Salix lucida</i> ssp. <i>lasiandra</i> Red willow	X	X	X	X	X	X	X		X	X	X
<i>Salix scouleriana</i> Scouler's willow					X	X	X		X	X	X
SAXIFRAGACEAE – SAXIFRAGE FAMILY											
<i>Boykinia major</i> Mountain boykinia					X	X	X		X		
<i>Boykinia occidentalis</i> Brook foam			X	X	X		X		X		
<i>Darmera peltata</i> Indian rhubarb		X	X		X	X	X		X		
<i>Heuchera rubescens</i> Pink heuchera											
<i>Huechera micrantha</i> Alum root		X	X	X	X					X	
<i>Lithophragma</i> sp. Woodland star		X	X	X							
<i>Mitella breweri</i> Bishop's cap						X	X		X		
<i>Saxifraga aprica</i> Sierra saxifrage											
<i>Saxifraga californica</i> California saxifrage				X	X						
<i>Saxifraga mertensiana</i> Mountain saxifrage					X						
<i>Saxifraga oregana</i> Oregon saxifrage						X	X				
<i>Saxifraga</i> sp. Saxifrage											
<i>Tellima grandiflora</i> Fringe cups		X									

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Tolmeia menziesii</i> Pig-a-back plant		X									
SCROPHULARIACEAE – FIGWORT FAMILY											
<i>Castilleja applegatei</i> Applegate's Indian paintbrush	X			X							
<i>Castilleja attenuata</i> Valley tassels	X										
<i>Castilleja miniata</i> Great red indian paintbrush					X	X	X			X	X
<i>Castilleja nana</i> Dwarf alpine indian paintbrush										X	X
<i>Castilleja</i> sp. Indian paintbrush											
<i>Collinsia heterophylla</i> Chinese houses	X										
<i>Collinsia torreyi</i> var. <i>torreyi</i> Torrey's blue-eyed mary					X	X	X				
<i>Cordylanthus tenuis</i> Bird's-beak	X	X				X	X		X	X	X
<i>Keckiella breviflora</i> Keckiella	X	X	X	X							
<i>Keckiellalemmonii</i> Lemmon's keckiella									X	X	X
<i>Limosella aquatica</i> Mudwort						X				X	
<i>Lindernia dubia</i> var. <i>dubia</i> False pimpernel						X					
<i>Mimulus aurantiacus</i> Bush monkey flower		X									
<i>Mimulus bicolor</i> Yellow and white monkeyflower				X							
<i>Mimulus cardinalis</i> Scarlet monkeyflower		X	X	X	X	X	X				
<i>Mimulus guttatus</i> Seep-spring monkeyflower	X	X	X	X	X	X	X	X	X	X	

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Mimulus lewisii</i> Lewis' monkeyflower											
<i>Mimulus mephiticus</i> Skunky monkey flower						X	X				
<i>Mimulus moschatus</i> Musk flower					X	X	X		X	X	X
<i>Mimulus primuloides</i> Primrose monkeyflower						X	X			X	X
<i>Mimulus torreyi</i> Torrey's monkeyflower				X	X	X	X	X	X	X	X
<i>Pedicularis semibarbata</i> Pine woods lousewort					X	X	X	X	X	X	X
<i>Pedicularis</i> sp. ⁺ Lousewort											
<i>Penstemon azureus</i> Azure penstemon	X	X	X	X	X						
<i>Penstemon deustus</i> Hot rock penstemon	X										
<i>Penstemon laetus</i> Gay penstemon			X	X	X	X	X	X	X	X	X
<i>Penstemon newberryi</i> var. <i>newberryi</i> Newberry's penstemon					X	X	X		X	X	X
<i>Penstemon</i> sp. Blue penstemon											
* <i>Verbascum thaspsus</i> Woolly mullein	X	X	X	X	X	X	X	X	X		
<i>Veronica americana</i> American brooklime						X					
<i>Veronica anagallis-aquatica</i> Water speedwell		X									
<i>Veronica</i> sp. Veronica											
<i>Veronica scutellaria</i> Marsh speedwell									X		

SIMARBOUBACEAE – SIMAROUBA FAMILY

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Ailanthus altissima</i> Tree of heaven	X										
SOLANACEAE – NIGHTSHADE FAMILY											
<i>Solanum xanti</i> Chaparral night shade				X							
VIOLACEAE – VIOLET FAMILY											
<i>Viola adunca</i> Western dog violet					X	X					
<i>Viola glabella</i> Smooth yellow violet					X	X	X		X	X	X
<i>Viola lobata</i> Pine violet			X	X		X					
<i>Viola macloskeyi</i> Macloskey's violet					X	X	X		X	X	X
<i>Viola purpurea</i> Mountain violet				X	X	X	X		X	X	
<i>Viola tomentosa</i> Woolly violet						X			X		
VISCACEAE – MISTLETOE FAMILY											
<i>Arceuthobium abietum</i> Fir dwarf mistletoe						X	X	X	X	X	X
<i>Arceuthobium americanum</i> Lodgepole pine dwarf mistletoe									X	X	
<i>Arceuthobium campylopodium</i> Yellow pine dwarf mistletoe					X	X					
<i>Arceuthobium occidentale</i> Foothill pine dwarf mistletoe		X									
VITACEAE – GRAPE FAMILY											
<i>Vitis californica</i> California wild grape	X	X									
<i>Vitis</i> sp. Grape									X		

ANGIOSPERMAE – FLOWERING PLANTS
Monocots

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
CYPERACEAE – SEDGE FAMILY											
<i>Carex athrostachya</i> Slender beaked sedge											
<i>Carex bolanderi</i> Bolander's sedge		X									
<i>Carex echinata</i> ssp. <i>echinata</i> Western stellate sedge											
<i>Carex deweyana</i> ssp. <i>leptopoda</i> Short scaled sedge											
<i>Carex feta</i> Green sheathed sedge	X	X		X	X	X	X		X		
<i>Carex filifolia</i> var. <i>erostrata</i> Short grass sedge										X	X
<i>Carex fracta</i> Fragile sheathed sedge		X							X		
<i>Carex lemmonii</i> Lemmon's sedge											
<i>Carex lenticularis</i> var. <i>lenticularis</i> Kellogg's sedge											
<i>Carex multicaulis</i> Multi-stemmed sedge		X	X	X	X	X	X	X	X	X	X
<i>Carex nebrascensis</i> Nebraska sedge						X					
<i>Carex rossii</i> Ross' sedge					X	X	X	X	X	X	X
<i>Carex specifica</i> Narrow fruited sedge											
<i>Carex subfusca</i> Sedge											
<i>Carex utriculata</i> Beaked sedge						X	X		X	X	X
<i>Carex vesicaria</i> var. <i>vesicaria</i> Inflated sedge											
<i>Eleocharis acicularis</i> var. <i>acicularis</i> Needle spike rush						X	X		X	X	

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Eleocharis acicularis</i> var. <i>bella</i> Creeping needle spikerush						X					
<i>Eleocharis macrostachya</i> Pale spikerush				X		X					
<i>Scirpus clementis</i> Clement's bulrush										X	X
<i>Scirpus congdonii</i> Congdon's bulrush					X	X					
<i>Scirpus microcarpus</i> Small fruited bulrush		X	X	X	X	X	X	X	X	X	X
IRIDACEAE – IRIS FAMILY											
<i>Iris hartwegii</i> Hartweg's golden iris		X	X	X							
<i>Iris</i> sp. ⁺ Bearded iris											
<i>Sisyrinchium bellum</i> Blue-eyed grass						X			X		X
<i>Sisyrinchium elmeri</i> Yellow blue eyed grass						X	X		X		
JUNCACEAE – RUSH FAMILY											
<i>Juncus acuminatus</i> Sharp fruited rush					X						
<i>Juncus balticus</i> Baltic rush		X		X	X		X				
<i>Juncus bufonius</i> var. <i>bufonius</i> Toad rush				X		X	X				
<i>Juncus chlorocephalus</i> Green headed rush			X	X	X	X	X	X	X	X	X
<i>Juncus effusus</i> Common rush		X	X	X	X	X	X	X	X	X	X
<i>Juncus ensifolius</i> Three stamened rush				X	X	X	X	X	X	X	X
<i>Juncus macrandrus</i> Long anthered rush										X?	

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General Location of SMUD Facility¹

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<i>Juncus nevadensis</i> Sierra rush							X			X	X
<i>Juncus occidentalis</i> Western rush						X	X			X	X
<i>Juncus oxymuris</i> Pointed rush					X	X				X	
<i>Juncus parryi</i> Parry's rush										X	X
<i>Juncus tenuis</i> Slender rush	X	X	X	X	X	X	X	X	X	X	X
<i>Juncus xiphioides</i> Iris leaved rush			X	X	X	X	X	X	X	X	X
<i>Luzula comosa</i> Wood rush	X	X	X	X	X	X	X	X	X	X	X
<i>Luzula parviflora</i> Small flowered wood rush				X	X	X					
LILIACEAE – LILY FAMILY											
<i>Allium amplexans</i> Narrow leaved onion				X	X						
<i>Allium campanulatum</i> Sierra onion				X	X	X	X	X	X	X	X
<i>Allium validum</i> Swamp onion											X
<i>Brodiaea elegans</i> Elegant brodiaea	X			X							
<i>Brodiaea</i> sp.				X							
<i>Camassia quamash</i> ssp. <i>quamash</i> Common cammas						X					
<i>Calochortus alba</i> Globe lily	X	X	X	X							
<i>Calochortus clavatus</i> ssp. <i>avius</i> Pleasant Valley mariposa lily				X	X						
<i>Calochortus leichtlinii</i> Sierra mariposa lily					X	X	X	X	X	X	X

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

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<i>Calochortus minimus</i> Lesser star tulip						X				X	X
<i>Calochortus monophyllus</i> Yellow car's ear		X	X	X							
<i>Calochortus</i> sp. Mariposa lily											
<i>Chlorogalum grandiflorum</i> Red hills soap root				X							
<i>Chlorogalum pomeridianum</i> Soap plant	X	X	X	X	X	X	X	X	X	X	
<i>Clintonia uniflora</i> Single flowered clintonia				X	X	X			X	X	X
<i>Dichelostemma multiflorum</i> Wild hyacinth		X	X	X							
<i>Dichelostemma capitatum</i> Blue dicks	X	X									
<i>Dichelostemma volubile</i> Twining brodiaea	X	X									
<i>Disporum hookeri</i> Hooker's fairy bell			X	X	X	X	X				
<i>Fritillaria</i> sp. ⁺ Fritillaria		X		X							
<i>Lilium parvum</i> Alpine lily					X	X	X		X	X	X
<i>Lilium washingtonianum</i> Washington lily				X	X	X	X				
<i>Smilacina racemosa</i> False solomon's seal		X	X	X	X	X	X	X	X	X	X
<i>Smilacina stellata</i> Solomon's seal				X							X
<i>Streptopus amplexifolius</i> var <i>americanus</i> Twisted stalk					X	X	X				
<i>Triteleia hyacinthina</i> White hyacinth				X	X				X		

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General Location of SMUD Facility¹

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<i>Triteleia ixioides</i> ssp. <i>anilina</i> Pretty face				X	X	X			X	X	X
<i>Triteleia montana</i> Montana hyacinth									X		
<i>Veratrum californicum</i> var. <i>californicum</i> Corn lily						X	X		X	X	X
<i>Zigadenus venenosus</i> var. <i>venenosus</i> Death camas						X				X	X
ORCHIDACEAE – ORCHID FAMILY											
<i>Corallorhiza maculata</i> Spotted coralroot						X	X		X	X	
<i>Goodyera oblongifolia</i> Rattlesnake plantain				X		X	X		X	X	X
<i>Listera convallarioides</i> Twayblade						X					
<i>Piperia transversa</i> Elegant piperia											
<i>Piperia unalascensis</i> Alaskan piperia											
<i>Platanthera leucostachys</i> White flowered bog orchid						X	X		X	X	X
<i>Platanthera sparsiflora</i> Sparse flowered bog orchid						X					
<i>Spiranthes porrifolia</i> Lady's tresses						X					
POACEAE – GRASS FAMILY											
<i>Achnatherum lemmonii</i> Lemmon's needlegrass		X		X	X	X					
<i>Achnatherum nelsonii</i> Nelson's needlegrass					X						
<i>Achnatherum occidentale</i> Western needlegrass						X	X		X	X	X
<i>Achnatherum stillmanii</i> Stillman's needlegrass				X							

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General Location of SMUD Facility¹

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<i>Achnatherum thurberiana</i> Thurber's needlegrass						X	X		X		
* <i>Aegilops</i> sp. Goat grass		X		X							
* <i>Agropyron</i> cf. <i>repen</i> Quack grass					X	X	X		X	X	
<i>Agrostis exarata</i> Western bentgrass							X			X	
<i>Agrostis oregonensis</i> Oregon bentgrass					X		X				
<i>Agrostis idahoensis</i> Idaho bentgrass	X	X			X	X	X		X	X	X
<i>Agrostis scabra</i> Ticklegrass						X	X		X		
* <i>Agrostis stolonifera</i> Creeping bentgrass			X	X	X	X	X		X		
<i>Agrostis variabilis</i> Variable hairgrass											X
* <i>Aira caryophyllea</i> Annual hair grass	X	X	X	X	X	X	X	X	X		
* <i>Anthoxanthum odoratum</i> Vernal grass						X					
* <i>Avena barbata</i> Slender oat grass		X			X						
* <i>Avena fatua</i> Wild oat	X	X		X		X					
<i>Brachypodium distachyon</i> Brachypodium	X										
<i>Briza minor</i> Quaking grass	X	X									
<i>Bromus carinatus</i> California brome				X	X	X	X		X		
* <i>Bromus diandrus</i> Ripgut	X	X	X	X							

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General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
* <i>Bromus hordeaceus</i> Soft chess	X	X	X	X							
<i>Bromus laevipes</i> Brome	X	X	X	X							
* <i>Bromus madritensis</i> ssp. <i>rubens</i> Red brome	X	X									
<i>Bromus orcuttianus</i> Brome grass	X			X		X	X		X		
* <i>Bromus tectorum</i> Cheat grass	X	X	X	X	X	X	X	X	X	X	X
* <i>Cynosurus echinatus</i> Hedgehog dog-tail grass	X	X	X	X	X		X				
* <i>Dactylis glomerata</i> Orchard grass	X	X	X	X	X	X	X	X	X		
<i>Danthonia californica</i> var <i>americana</i> California oat grass					X	X			X		
<i>Danthonia intermedia</i> Intermediate oat grass						X					X
<i>Danthonia unispicata</i> Few flowered oat grass							X		X	X	X
<i>Deschampsia caespitosa</i> Tufted hairgrass							X			X	X
<i>Deschampsia danthonoides</i> Annual hairgrass		X					X		X	X	X
<i>Deschampsia elongata</i> Slender hairgrass					X	X			X	X	X
<i>Elymus elymoides</i> Squirrel tail	X			X	X	X	X	X	X	X	X
<i>Elymus glaucus</i> Blue wildye	X	X	X	X	X	X	X	X	X	X	X
<i>Elymus lanceolatus</i> ssp <i>lanceolatus</i> Thickspike wheatgrass		X	X								
<i>Elymus trachycaulus</i> Slender wheatgrass											X

* = non-native sp., 1 – The transmission line was not surveyed during the 2000 botanical survey. Species with no “X” are presumed to occur along the western portion of the transmission line

Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Elymus trachycaulus</i> ssp <i>subsecundus</i> Long-awn wheatgrass				X	X						
<i>Festuca idahoense</i> + Idaho fescue									X		
<i>Festuca occidentalis</i> + Western fescue		X	X	X	X	X	X	X	X	X	X
* <i>Festuca pratense</i> Meadow fescue					X				X		
* <i>Gastridium ventricosum</i> Nit grass	X	X									
<i>Glyceria striata</i> Tall mannagrass					X	X	X	X	X	X	X
* <i>Holcus lanatus</i> Velvet grass		X			X	X	X		X		
<i>Hordeum brachyantherum</i> Meadow barley					X						X
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> Mediterranean barley	X		X			X					
* <i>Lolium multiflorum</i> Annual ryegrass						X					
<i>Lolium perenne</i> Perennial rye grass	X			X							
<i>Melica aristata</i> California melica					X	X	X		X	X	
" <i>Melica</i> cf. <i>smithii</i> " Long awn-reflexed					X	X	X		X	X	
<i>Melica californica</i> California melica	X	X		X							
<i>Melica geyerii</i> Melic grass		X	X	X							
<i>Melica harfordii</i> Melic grass	X	X	X	X	X						
<i>Melica subulata</i> Onion grass						X					

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Melica torreyana</i> Torrey's onion grass	X	X									
<i>Muhlenbergia filiformis</i> Slender muhly									X	X	X
<i>Nassella</i> sp. Needle grass											
* <i>Panicum acuminatus</i> Western panicum		X		X	X		X		X	X	X
* <i>Phleum pratense</i> Timothy						X	X		X		
* <i>Poa annua</i> Annual bluegrass				X			X		X		
* <i>Poa bulbosa</i> Bulbous bluegrass				X							X
<i>Poa bolanderi</i> Bolander's blue grass										X	X
<i>Poa compressa</i> Canada bluegrass							X		X		
<i>Poa palustris</i> Fowl meadow grass						X	X				X
<i>Poa pratensis</i> Kentucky bluegrass			X		X	X	X		X	X	X
<i>Poa secunda</i> Bluegrass	X	X	X	X	X	X	X	X	X	X	X
* <i>Polypogon interruptus</i> Ditch polypogon		X									
* <i>Polypogon monspeliensis</i> Rabbitfoot grass		X									
<i>Puccinellia nuttaliana</i> Nuttall's alkali grass					X						
<i>Torreyochloa pallida</i> California alkali grass					X						
<i>Trisetum canescens</i> Tall trisetum		X	X			X	X		X		

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Appendix Table E4-1 (Continued)

General Location of SMUD Facility¹

	White Rock PH	Slab Creek Res.	Brush Creek Res.	Camino Res.	Junction Res.	Union Valley Res.	Ice House Res.	Robb's Peak Res.	Gerle Creek Res.	Loon Lake Res.	Buck Is. /Rubicon Res.
<i>Trisetum spicatum</i> Downy oat grass										X	X
* <i>Vulpia microstachys</i> Rat-tail fescue	X	X	X	X	X	X	X		X		
* <i>Vulpia myuros</i> var. <i>myuros</i> Rat-tail fescue	X	X	X	X	X	X	X	X	X	X	X
POTAMOGETONACEAE – PONDWEED FAMILY											
<i>Potamogeton natans</i> Floating-leaved pondweed						X			X		X
SPARGANIACEAE – BUR REED FAMILY											
<i>Sparganium angustifolium</i> Narrow leaved bur reed						X					
TYPHACEAE – CATTAIL FAMILY											
<i>Typha domingensis</i> Cattail						X					
<i>Typha</i> sp. Cattail									X		

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