

Appendix B – Biological Resources Report - Attachment A

ATTACHMENT A

Site Survey Photos



Photo Figure 1: Facing Southeast from northwest section of the intersection area. Example of Developed area in BSA.



Photo Figure 2: Facing Southeast from northwest section of the BSA. Example of Developed area in BSA.



Photo Figure 3: View of proposed staging area and example of Disturbed area in BSA.



Photo Figure 4: View of golf course area and example of Disturbed area with ornamental eucalyptus trees in BSA.



Photo Figure 5: View of Non-Native Woodland/Island Chaparral habitat included a dense cover of eucalyptus with a blend of Island Chaparral habitat further upslope.



Photo Figure 6: Example of deer occurrence in the BSA.



Photo Figure 7: Characteristic conditions of Avalon Creek, facing upstream towards golf course.



Photo Figure 8: Characteristic conditions of Avalon Creek, facing downstream towards the proposed project area.



Photo Figure 9: Characteristic conditions of stormwater inputs to the channel system, north of the proposed project area, taken during a rain event.



Photo Figure 10: Characteristic conditions of stormwater inputs to the channel system, in the proposed project area, taken during a rain event.



Photo Figure 11: Characteristic conditions of stormwater channel system, in the proposed project area, taken during a rain event at the confluence of the inputs from areas shown in Photo Figures 9 and 10.



Photo Figure 12: Characteristic conditions of stormwater channel system, in the proposed project area, taken during a rain event below the confluence of the inputs from areas shown in Photo Figures 11, 10, and 9.



Photo Figure 13: Characteristic conditions of stormwater channel system, in the proposed project area, taken during a rain event below areas shown in Photo Figures 12, 11, 10, and 9.



Photo Figure 14: Characteristic conditions at the confluence of Avalon Creek and the stormwater channel that is parallel to Fremont Street. Both features have constructed bottoms.

Rare Plant and Wildlife Potential for Occurrence Table

Scientific Name	Common Name	Status	General Habitat Description (Elevation in meters)	Habitat Present/ Absent	Rationale
PLANTS					
<i>Aphanisma blitoides</i>	aphanisma	US:-- CA:-- CNPS: 1B.2	Occurs in sandy or gravelly soils within coastal bluff scrub, coastal scrub, and coastal dunes (1-305).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Arctostaphylos catalinae</i>	Santa Catalina Island manzanita	US:-- CA:-- CNPS: 1B.2	Occurs in volcanic chaparral (75-600).	A	Presumed Absent. This habitat type does not occur within the BSA.
<i>Atriplex coulteri</i>	Coulter's saltbush	US:-- CA:-- CNPS: 1B.2	Occurs in alkaline or clay soils within coastal bluff scrub, coastal scrub, coastal dunes, and valley and foothill grassland (3-460).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Atriplex pacifica</i>	south coast saltscale	US:-- CA:-- CNPS: 1B.2	Occurs within coastal bluff scrub, coastal scrub, coastal dunes, and playas (0-140).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Atriplex serenana var. davidsonii</i>	Davidson's saltscale	US:-- CA:-- CNPS: 1B.2	Occurs in alkaline soils within coastal bluff scrub and coastal scrub (10-200).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Centromadia parryi ssp. australis</i>	southern tarplant	US:-- CA:-- CNPS: 1B.1	Occurs on the margins of marshes and swamps and within vernal pools and vernal mesic valley and foothill grassland (0-480).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Cirsium occidentale var. compactum</i>	compact cobwebby thistle	US:-- CA:-- CNPS: 1B.2	Occurs within chaparral, coastal dunes, prairie, and scrub (5-150).	A	Presumed Absent. These habitat types do not occur within the BSA.

Scientific Name	Common Name	Status	General Habitat Description (Elevation in meters)	Habitat Present/Absent	Rationale
<i>Constancea nevinii</i>	Nevin's woolly sunflower	US:-- CA:-- CNPS: 1B.3	Occurs in coastal bluff scrub and coastal scrub (5-410).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Crocanthemum greenei</i>	island rush-rose	US:-- CA:-- CNPS: 1B.2	Occurs in rocky openings within closed-cone coniferous forest, chaparral, cismontane woodland, and coastal scrub (15-490).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Crossosoma californicum</i>	Catalina crossosoma	US:-- CA:-- CNPS: 1B.2	Occurs in rocky soils within chaparral and coastal scrub (0-500).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Cryptantha wigginsii</i>	Wiggins' cryptantha	US:-- CA:-- CNPS: 1B.2	Occurs in clay soils in coastal sage scrub (20-275).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Dendromecon harfordii</i> var. <i>rhamnoides</i>	south island bush-poppy	US:-- CA:-- CNPS: 3.1	Occurs in chaparral, cismontane woodland, and coastal scrub (15-520).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Diplacus traskiae</i>	Santa Catalina Island monkeyflower	US:-- CA:-- CNPS: 1A	Occurs in coastal scrub (elevation not specified).	A	Presumed Absent. This habitat type does not occur within the BSA.
<i>Dissanthelium californicum</i>	California dissanthelium	US:-- CA:-- CNPS: 1B.2	Occurs in coastal scrub (5-500).	A	Presumed Absent. This habitat type does not occur within the BSA.
<i>Dithyrea maritima</i>	beach spectaclepod	US:-- CA:-- CNPS: 1B.1	Occurs in sandy soils within coastal dunes and sandy coastal scrub (3-50).	A	Presumed Absent. These habitat types do not occur within the BSA.

Scientific Name	Common Name	Status	General Habitat Description (Elevation in meters)	Habitat Present/Absent	Rationale
<i>Dudleya virens</i> ssp. <i>hassei</i>	Catalina Island dudleya	US:-- CA:-- CNPS: 1B.2	Occurs in rocky soils within coastal bluff scrub and coastal scrub (0-400).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Dudleya virens</i> ssp. <i>insularis</i>	island green dudleya	US:-- CA:-- CNPS: 1B.2	Occurs in rocky soils within coastal bluff scrub and coastal scrub (5-300).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Galium catalinense</i> ssp. <i>catalinense</i>	Santa Catalina Island bedstraw	US:-- CA:-- CNPS: 1B.3	Occurs within chaparral and coastal scrub (5-440).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Gambelia speciosa</i>	showy island snapdragon	US:-- CA:-- CNPS: 1B.2	Occurs in rocky soils within coastal scrub (0-900).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Isocoma menziesii</i> var. <i>decumbens</i>	decumbent goldenbush	US:-- CA:-- CNPS: 1B.2	Occurs within chaparral and sandy, often disturbed coastal scrub (10-135).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Lavatera assurgentiflora</i> ssp. <i>glabra</i>	southern island mallow	US:-- CA:-- CNPS: 1B.1	Occurs within coastal bluff scrub (5-250).	A	Presumed Absent. This habitat type does not occur within the BSA.
<i>Lonicera subspicata</i> var. <i>subspicata</i>	Santa Barbara honeysuckle	US:-- CA:-- CNPS: 1B.2	Occurs within chaparral, cismontane woodland, and coastal scrub (10-1000).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Lycium brevipes</i> var. <i>hassei</i>	Santa Catalina Island desert-thorn	US:-- CA:-- CNPS: 3.1	Occurs within coastal bluff scrub and coastal scrub (65-300).	A	Presumed Absent. These habitat types do not occur within the BSA.

Scientific Name	Common Name	Status	General Habitat Description (Elevation in meters)	Habitat Present/Absent	Rationale
<i>Lyonothamnus floribundus</i> ssp. <i>floribundus</i>	Santa Catalina Island ironwood	US:-- CA:-- CNPS: 1B.2	Occurs within broad-leaved upland forest, chaparral, and cismontane woodland (75-500).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Nemacaulis denudata</i> var. <i>denudata</i>	coast woolly-heads	US:-- CA:-- CNPS: 1B.2	Occurs within coastal dunes (0-100).	A	Presumed Absent. This habitat type does not occur within the BSA.
<i>Ribes viburnifolium</i>	Santa Catalina Island currant	US:-- CA:-- CNPS: 1B.2	Occurs within chaparral and cismontane woodland (30-350).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Scrophularia villosa</i>	Santa Catalina figwort	US:-- CA:-- CNPS: 1B.2	Occurs within chaparral and coastal scrub (45-510).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Senecio aphanactis</i>	Chaparral Ragwort	US:-- CA:-- CNPS: 2B.2	Occurs in cismontane woodland, coastal scrub, and occasionally in alkaline habitats (15-800).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Sibara filifolia</i>	Santa Cruz Island winged-rockcress	US: FE CA:-- CNPS: 1B.1	Occurs in rocky, volcanic coastal scrub, often in openings (60-305).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Solanum wallacei</i>	Wallace's nightshade	US:-- CA:-- CNPS: 1B.1	Occurs in rocky soils within chaparral and cismontane woodland (3-410).	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Tortula californica</i>	California screw moss	US:-- CA:-- CNPS: 1B.2	Occurs in sandy soils within chenopod scrub and valley and foothill grassland (10-1460).	A	Presumed Absent. These habitat types do not occur within the BSA.

Scientific Name	Common Name	Status	General Habitat Description	Habitat Present/ Absent	Rationale
BIRDS					
<i>Brachyramphus marmoratus</i>	Marbled Murrelet	US: TH CA: SE	Coastlines with stands of mature redwood and Douglas-fir (uses these trees for nesting and probably roosting). When not feeding, inhabits surface of shallow coastal waters close to shore.	A	Presumed Absent. Suitable nesting habitat does not occur within the BSA.
<i>Charadrius nivosus nivosus</i>	Western Snowy Plover	US: FT CA: SSC	Sandy beaches, salt pond levees & shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	A	Presumed Absent. Suitable nesting habitat does not occur within the BSA.
<i>Haliaeetus leucocephalus</i>	bald eagle	US: -- CA: SE	Nests in tall trees near water sources.	A	Presumed Absent. Suitable nesting habitat does not occur within the BSA.
MAMMALS					
<i>Urocyon littoralis catalinae</i>	Santa Catalina Island fox	US: FT CA: ST	Various habitat types on Catalina Island, including: Valley and foothill grasslands, coastal sage scrub, coastal bluff, sand dune areas, island chapparral, southern coastal oak woodland, island woodland, southern riparian woodland, pine forests and coastal marshes.	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Sorex ornatus willetti</i>	Santa Catalina shrew	US: -- CA: SSC	Riparian habitat with a dense herbaceous understory and tangles of plant debris and tree roots, in proximity to flowing water, as well as mesic habitats with low, dense vegetation, heavy leaf litter, and soils with rich duff layers on Santa Catalina Island. Sometimes found in upland woodlands such as chaparral and coastal sage scrub.	A	Presumed Absent. These habitat types do not occur within the BSA.

Scientific Name	Common Name	Status	General Habitat Description	Habitat Present/ Absent	Rationale
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	US: -- CA: -- SSC	Roosts in caves, tunnels, mines, and buildings in all but subalpine and alpine habitats. Most abundant in mesic habitats.	A	Presumed Absent. These habitat types do not occur within the BSA.
INSECTS					
<i>Cicindela hirticollis gravida</i>	sandy beach tiger beetle	US: -- CA: --	Moist sand near the ocean, in swales behind dunes or upper beaches beyond normal high tides.	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Coelus globosus</i>	globose dune beetle	US: -- CA: --	Fore dunes, sand hummocks, sometimes back dunes along immediate coast. Can be found in the sand or under vegetation or accumulated debris.	A	Presumed Absent. These habitat types do not occur within the BSA.
MOLLUSKS					
<i>Pristiloma shepardae</i>	Shepard's snail	US: -- CA: --	Little is known about the specific habitat of this species. Generally, <i>Pristiloma</i> species graze on bacteria, fungi, yeasts and other microscopic organisms found on moist surfaces of wood, green and decaying vegetation, and rocks.	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Haplotrema catalinense</i>	Santa Catalina lancetooth	US: -- CA: --	Around and under rocks in oak and cactus leaf litter on Santa Catalina Island.	A	Presumed Absent. These habitat types do not occur within the BSA.
<i>Radiocentrum avalonense</i>	Catalina mountainsnail	US: -- CA: --	Steep, usually south-facing slopes sparsely covered with coastal sage scrub vegetation dominated by black sage and prickly-pear cactus.	A	Presumed Absent. These habitat types do not occur within the BSA.

Scientific Name	Common Name	Status	General Habitat Description	Habitat Present/ Absent	Rationale
Sterkia clementina	San Clemente Island blunt-top snail	US: -- CA: -- -	Little is known about the specific habitat of this species. One past occurrence was recorded on Catalina Island in habitat vegetated by Menzies' fiddleneck, wild cucumber, ice plant, and coastal prickly pear. These species occur within coastal sage scrub, coastal strand, chaparral, and valley grassland vegetation communities.	A	Presumed Absent. No suitable habitat within the BSA.