

(2) The primary constituent elements of critical habitat for *Astragalus magdalenae* var. *peirsonii* consist of intact, active sand dune systems (defined as sand areas that are subject to sand-moving winds that result in natural expanses of slopes and swales) within the historical range of *A. m.* var. *peirsonii* that are characterized by:

(i) Substrates of the Rositas soil series, specifically Rositas fine sands of sufficient depth to promote *A. m.* var. *peirsonii* and discourage creosote bush scrub; and

(ii) Wind-formed slopes of less than 30 degrees, but generally less than 20 degrees.

(3) Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

(4) Critical Habitat Map Units.

(i) Map Unit 1: Algodones Dunes, Imperial County, California. From USGS 1:24,000 quadrangle maps Acolita, Amos, Cactus, Glamis, Glamis NW, Glamis SE, Grays Well, Grays Well NE, and Tortuga, California.

(A) Unit 1a: lands bounded by the following UTM NAD27 coordinates (E,N): 657200, 3668800; 658100, 3668800; 658100, 3668500; 658000, 3668500; 658000, 3668000; 658100, 3668000; 658100, 3667800; 658200, 3667800; 658200, 3667600; 658300, 3667600; 658300, 3667300; 658400, 3667300; 658400, 3667100; 658500, 3667100; 658500, 3666800; 658600, 3666800; 658600, 3666600; 658700, 3666600; 658700, 3666500; 658800, 3666500; 658800, 3666400; 658900, 3666400; 658900, 3666300; 659000, 3666300; 659000, 3666200; 659100, 3666200; 659300, 3666200; 659300, 3666000; 659400, 3666000; 659400, 3665900; 659500, 3665900; 659500, 3665800; 659600, 3665800; 659600, 3665700; 659700, 3665700; 659700, 3665600; 659800, 3665600; 659800, 3665500; 660000, 3665500; 660000, 3665400; 660100, 3665400; 660100, 3665300; 660200, 3665300; 660200, 3665200; 660300, 3665200; 660300, 3665100; 660500, 3665100; 660500, 3665000; 660700, 3665000; 660700, 3664900; 660700, 3664800; 660800, 3664700; 660900, 3664700; 660900, 3664500; 661000, 3664500; 661000, 3664400; 661200, 3664400; 661200, 3664300; 661400, 3664300; 661400, 3664100; 661500, 3664100; 661500, 3663900; 661600, 3663900; 661600, 3663700; 661700, 3663700; 661700, 3663600; 661800, 3663600; 661800, 3663500; 662000,

3663500; 662000, 3663400; 662100, 3663400; 662100, 3663200; 662200, 3663200; 662200, 3662900; 662300, 3662900; 662300, 3662700; 662400, 3662700; 662400, 3662500; 662500, 3662500; 662500, 3662400; 662600, 3662400; 662600, 3662300; 662700, 3662300; 662700, 3662200; 662800, 3662200; 662800, 3662100; 664000, 3662100; 664000, 3662000; 664400, 3662000; 664400, 3661900; 664600, 3661900; 664600, 3661800; 664800, 3661800; 664800, 3661500; 664900, 3661500; 664900, 3661300; 665000, 3661300; 665000, 3661100; 665100, 3661100; 665100, 3660200; 665200, 3660200; 665200, 3660000; 665500, 3660000; 665500, 3659900; 665900, 3659900; 665900, 3659800; 666100, 3659800; 666100, 3659700; 666200, 3659700; 666200, 3659600; 666300, 3659600; 666300, 3659500; 666400, 3659500; 666400, 3659300; 666500, 3659300; 666500, 3658800; 666600, 3658800; 666600, 3658500; 666700, 3658500; 666700, 3658200; 666800, 3658200; 666800, 3658100; 666900, 3658100; 666900, 3658000; 667100, 3658000; 667100, 3658000; 667100, 3657900; 667400, 3657900; 667400, 3657800; 667600, 3657800; 667600, 3657700; 667800, 3657700; 667800, 3657500; 667900, 3657500; 667900, 3657400; 668000, 3657400; 668000, 3657200; 668100, 3657200; 668100, 3657200; 668100, 3657100; 668300, 3657100; 668300, 3657000; 668500, 3657000; 668500, 3656900; 668600, 3656900; 668600, 3656800; 668700, 3656800; 668700, 3656700; 668800, 3656700; 668800, 3656600; 669000, 3656600; 669000, 3656600; 669000, 3656700; 669300, 3656700; 669300, 3656800; 669700, 3656800; 669700, 3656700; 669800, 3656700; 669800, 3656600; 669900, 3656600; 669900, 3656500; 670100, 3656500; 670100, 3656400; 670300, 3656400; 671100, 3656400; 671100, 3656300; 671300, 3656300; 671300, 3656200; 671400, 3656200; 671400, 3656100; 671500, 3656100; 671500, 3656000; 671600, 3656000; 671600, 3655900; 671700, 3655900; 671700, 3655700; 671700, 3655700; 671700, 3655600; 671800, 3655600; 671800, 3655500; 671900, 3655500; 671900, 3655400; 672000, 3655400; 672000, 3655200; 672100, 3655200; 672100, 3654900; 672200, 3654900; 672200, 3654500; 672300, 3654500; 672300, 3654300; 672400, 3654300; 672400, 3654300; 672400, 3654100; 672900, 3654100; 672900, 3654200; 673700, 3654200; 673700, 3654100; 674100, 3654100; 674100, 3654000; 674200, 3654000; 674200, 3653900; 674300, 3653900; 674300, 3653700; 674400, 3653700; 674400, 3653700; 674400, 3652300; 674400, 3652100; 674500, 3652100; 674500, 3651500; 674500,

3651500; 674500, 3651400; 674600, 3651400; 674600, 3651300; 674700, 3651300; 674700, 3651200; 674800, 3651200; 674800, 3651100; 674200, 3651100; 674200, 3651000; 673900, 3651000; 673900, 3650900; 673800, 3650900; 673800, 3650800; 673600, 3650800; 673600, 3650700; 673400, 3650700; 673400, 3650600; 673100, 3650600; 673100, 3650500; 672500, 3650500; 672500, 3650400; 671900, 3650400; 671900, 3650300; 671500, 3650300; 671500, 3650200; 671200, 3650200; 671200, 3650100; 670900, 3650100; 670900, 3650000; 670600, 3650000; 670600, 3649900; 670300, 3649900; 670300, 3649800; 670100, 3649800; 670100, 3649700; 669900, 3649700; 669900, 3649600; thence west to the Imperial Sand Dunes Recreational Area (ISDRA), North Algodones Dunes Wilderness Management Area (NADWMA) boundary at UTM NAD27 y-coordinate 3649600; thence northwest following the ISDRA, NADWMA boundary to UTM NAD27 x-coordinate 669100; thence north following UTM NAD27 coordinates 669100, 3650500; 669000, 3650500; 669000, 3650900; 669100, 3650900; 669100, 3651200; 669200, 3651200; 669200, 3651300; 669300, 3651300; 669300, 3651400; 669400, 3651400; 669400, 3651700; 669300, 3651700; 669300, 3651800; 669200, 3651800; 669200, 3652400; 669300, 3652400; 669300, 3652500; 669400, 3652500; 669400, 3652700; 669500, 3652700; 669500, 3652900; 669600, 3652900; 669600, 3653600; 669500, 3653600; 669500, 3653700; 669400, 3653700; 669400, 3653800; 669100, 3653800; 669100, 3653900; 669000, 3653900; 669000, 3654100; 668900, 3654100; 668900, 3654200; 668800, 3654200; 668800, 3654300; 668600, 3654300; 668600, 3654400; 668300, 3654400; 668300, 3654500; 668100, 3654500; 668100, 3654600; 667900, 3654600; 667900, 3654700; 667700, 3654700; 667700, 3654800; 667600, 3654800; 667600, 3654900; 667500, 3654900; 667500, 3655000; 667300, 3655000; 667300, 3655100; 667100, 3655100; 667100, 3655200; 666900, 3655200; 666900, 3655300; 666800, 3655300; 666800, 3655400; 666700, 3655400; 666700, 3655500; 666600, 3655500; 666600, 3655600; 666500, 3655600; 666500, 3655700; 666400, 3655700; 666400, 3655800; 666200, 3655800; 666200, 3655900; 666100, 3655900; 666100, 3656000; 666000, 3656000; 666000, 3656200; 665900, 3656200; 665900, 3656300; 665800, 3656300; 665800, 3656400; 665700, 3656400; 665700, 3656500; 665600, 3656500; 665600, 3656600; 665400, 3656600; 665400, 3656700;