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0131-119300 Aa Accommodation
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WHEN RECORDED MAIL TO:

United States Navy BRAC Program Management Office West 1455 Frazee Road, Suite 900 San Diego, California 92109-4310 Attention: Esther P. Ewell Real Estate Contracting Officer

Exempt from documentary transfer tax pursuant to California Revenue and Taxation Code §11922. Exempt from recording fees pursuant to California Government Code §27383

FIRST AMERICAN TITLE COMPANY
HEREBY CERTIFIES THAT THIS IS A TRUE AND
CORRECT COPY OF THE ORIGINAL DOCUMENT

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N4769213RP13X08

DECLARATION OF RESTRICTIONS

(Former Naval Air Station Alameda)

THIS DECLARATION OF RESTRICTIONS ("Declaration") is entered into on this day of 12013 by the United States of America, acting by and through the United States Department of the Navy ("Declarant") as the owner of a certain real property situated in the county of Alameda, State of California. Declarant does hereby establish and subject said property to certain restrictions and servitudes between Declarant and all subsequent purchasers or transferees of such property or any portion thereof, as set forth hereinbelow.

RECITALS

WHEREAS, in 1993, the Defense Base Closure and Realignment Commission recommended the closure of the former Naval Air Station Alameda ("NAS Alameda"), which encompasses the Naval facilities and grounds comprising the western end of the City of Alameda and consists of approximately 2,693 acres of real property and improvements thereon;

WHEREAS, pursuant to the power and authority provided by Section 2905(b)(4) of the Defense Base Closure and Realignment Act of 1990 (P.L 101-501) as amended, and the implementing regulations of the Department of Defense (32 C.F.R. Part 175), the Secretary of the Navy may convey surplus property at a closing installation to the Local Redevelopment Authority ("LRA") at no cost for economic development purposes. The City of Alameda, as the successor to the Alameda Reuse and Redevelopment Authority ("City") has been recognized by the Secretary of Defense as the LRA for NAS Alameda. By application dated October 1997 as amended, the LRA requested an Economic Development Conveyance ("EDC") of portions of NAS Alameda, consisting of

approximately of 1,704 acres (the "EDC Property,") for uses consistent with the NAS Alameda Community Reuse Plan dated January 1996, as amended in September 1997, and approved by the Department of Housing and Urban Development on April 23, 1996 (the "Reuse Plan"). The EDC Property will be conveyed to the City ("First Grantee") in phases and the City anticipates creating new legal parcels to be conveyed for development in accordance with the Reuse Plan;

WHEREAS, in May 2009, Declarant assigned to the Department of Interior ("DOI") approximately 44.02 acres, more or less, commonly referred to as the "**PBC-1 Property**," for subsequent conveyance to the City for public park and recreation purposes, which conveyance will be made subject to the Restrictions. The EDC Property and the PBC-1 Property shall be collectively referred to herein as the "**Property**" as generally described and delineated on the map attached hereto as **Exhibit "1"**:

WHEREAS, the remaining NAS Alameda property, consisting of approximately 624 acres, will be transferred, through a Federal-to-Federal transfer, to the United States Department of Veteran Affairs ("VA") for the purpose of constructing and operating a VA Outpatient Clinic and National Cemetery Complex ("VA Project"). Approximately 112.4 acres of such property will be developed with VA facilities (the "VA Development Area") and the remaining 511.3 acres will remain undeveloped ("VA Undeveloped Area"). The VA Development Area and the VA Undeveloped Area are collectively referred to herein as the "VA Fed Transfer Parcel";

WHEREAS, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. Section 1536(a)(2)) the Navy and VA requested formal consultation with the U.S. Fish and Wildlife Service ("USFWS" or "Service") on the proposed disposition and reuse of the NAS Alameda property in accordance with the City's Reuse Plan and the VA Project. Accordingly, the USFWS issued that certain Biological Opinion on the Proposed Naval Air Station Alameda Disposal and Reuse Project in the City of Alameda, Alameda County, California dated August 29, 2012 ("2012 Biological Opinion," attached hereto as Exhibit "2"). The 2012 Biological Opinion required Service-approved deed restrictions, or, in some cases, "other enforceable property interest", with enforceable measures requiring the transferee to comply with applicable avoidance and minimization measures ("AMMs") and terms and conditions ("TCs") listed in the 2012 Biological Opinion, for the Property. Rather than including deed restrictions in the Quitclaim Deeds by which the Property is conveyed to the City, the City, Service and Declarant have agreed to implement the AMMs and TCs by this Declaration;

WHEREAS, five planning areas identified in the 2012 Biological Opinion ("Civic Core, Main Street Neighborhoods, Inner Harbor, Marina, and Northwest Territories"), together with six Building Development Zones ("Zones 1-6"), and various portions of the submerged lands within the Property to be developed under the Reuse Plan are subject to certain prohibitions and restrictions on use for the long-term preservation, management and protection of endangered species and their habitat. Based on overlapping among portions of these planning areas and zones, and among different portions of the submerged lands having different restrictions, Declarant has identified 22

areas with different combinations of restrictions that must be described separately. Said planning areas and zones are identified on the Biological Opinion Areas Map attached hereto as **Exhibit "1."** The planning areas generally depicted in Exhibit 1 as Areas A through V are more particularly described and depicted in **Exhibits 3-A through 3-V Legal Descriptions and Plat Maps of Biological Areas** attached hereto and incorporated herein by this reference; and

WHEREAS, this Declaration is entered into in order to implement the provisions of the 2012 Biological Opinion as they relate to the Property and shall run with the land in perpetuity.

RESTRICTIONS

NOW, THEREFORE, in consideration of the above recitals and the mutual covenants, terms, conditions and restrictions contained herein, and pursuant to California law, Declarant hereby voluntarily restricts the use of the Property in perpetuity as follows:

- Opinion, this Declaration sets forth protective provisions, covenants, restrictions, conditions and servitudes (collectively "Restrictions") subject to which the Property shall be held, used, occupied, leased, sold, hypothecated, encumbered and/or conveyed, in perpetuity. Each and all of the Restrictions as herein described shall run with the land and pass with the Property, and shall apply to, inure to the benefit of, and bind the respective successors in interest thereof, for the benefit of any person or entity holding title to all or any portion of the Property ("Owner(s)") and any person or entity entitled by leasehold or other legal relationship to the right to occupy any portion of the Property ("Occupant(s)").
- 2. Concurrence of Owners and Occupants Presumed. All purchasers, lessees or possessors of any portion of the Property shall be deemed by their purchase, leasing or possession of the Property or any portion thereof, to be in accord with the foregoing and to agree for and among themselves, their heirs, successors, and assigns, that the Restrictions set forth in this Declaration must be adhered to for the benefit of the Owners and Occupants of the Property and that the interests of the Owners and Occupants shall be subject to the Restrictions contained herein.
- 3. Restrictions. Declarant and all Owners and Occupants of any portion of the Property shall not use, nor authorize others to use, the Property, or any portion thereof, in violation of the Restrictions as set forth in the 2012 Biological Opinion, which Restrictions, identified as conditions for development for each planning area or zone, are summarized below. The condition designation "BO-AMM" indicates avoidance and minimization measures as defined in the 2012 Biological Opinion, and the designation "BO-TC" indicates terms and conditions as defined in the same.
 - A. Northwest Territories Regional Park (Area "A")

The following Restrictions apply to the use and management of the Northwest Territories – Regional Park area, more particularly described and depicted in Exhibit 3-A attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) **BO-AMM-6b and 6c**. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns, is prohibited in perpetuity.
- (4) **BO-AMM-7.** Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the Northwest Territories ("NWT"), Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.
- (5) **BO-AMM-8a.** As detailed stormwater management and monitoring plans for the NWT are developed, such plans shall be developed in coordination with the Service and implemented to protect open water foraging areas for least terns. The plans shall be reviewed and approved by the Service contemporaneously with the City environmental review process and prior to development of the project in this area.
- (6) BO-AMM-8b. Prior to any construction within the Regional Park, a Service-approved park management agency will be selected by the City.
- (7) **BO-AMM-8c.** No artificial features greater than 20 feet in height shall be constructed with the exception of 25 feet in the Veteran's memorial plaza area.
- (8) **BO-AMM-8c**. The cumulative square footage of buildings associated with the Regional Park in the NWT shall not exceed 4,500.
- (9) **BO-AMM-8c**. No tree species capable of growing to greater than 20 feet in height shall be planted in the Regional Park area. Tree and

- shrub density shall not exceed one tree or shrub per 10,000 square feet. The City shall prepare a palette of shrub and herbaceous vegetation species proposed for planting throughout the Regional Park area. The palette shall be reviewed and approved by the Service prior to the planting of any vegetation in this area.
- (10) **BO-AMM-8c**. From April 1 through August 15, nighttime lighting in the Regional Park area shall be limited to the minimum necessary for public safety.
- (11) **BO-AMM-8c**. The final Regional Park design/configuration, herbicide/pesticide drift control plan, and landscaping and management plans shall be developed in coordination with the Service. The plans shall be reviewed and approved by the Service prior to any new development in this area.
- (12) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (13) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (14) **BO-AMM-56.** The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (15) BO-TC-1C. Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - b. All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

B. Northwest Territories – Sports Complex (Area "B")

The following Restrictions apply to the use and management of the Northwest Territories – Sports Complex area, more particularly described and depicted in Exhibit 3-B attached hereto and incorporated herein by this reference:

(1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.

- (2) BO-AMM-6b and 6c. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terms, is prohibited in Perpetuity.
- (4) **BO-AMM-7**. Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.
- (5) BO-AMM-8a. As detailed stormwater management and monitoring plans for the NWT are developed by the City, they shall be developed in coordination with the Service and implemented to protect open water foraging areas for least terns. The plans shall be reviewed and approved by the Service contemporaneously with the City environmental review process and prior to development of the project in this area.
- (6) BO-AMM-8d. The Sports Complex fields shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure that light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels.
- (7) **BO-AMM-8e.** No trees or landscape turf shall be planted within 100 feet from the southern boundary of the Sports Complex, other than the turf required for the Sports Complex field playing surfaces. Shrubs will be managed as to not exceed 4 feet in height within 300 feet of the southern boundary of the Sports Complex. No tree species capable of growing to greater than 20 feet in height shall be planted within the Sports Complex area. Tree and shrub density shall not exceed one tree or shrub per 550 square feet. Trees species shall be light-limbed. No palm trees shall be allowed in this area. The City shall prepare a palette of shrub species proposed for planting in this area. The planting palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area.

- (8) **BO-AMM-8f.** No artificial features greater than 20 feet in height shall be constructed.
- (9) **BO-AMM-8f.** The cumulative square footage of buildings associated with the Sports Complex shall not exceed 7,500 square feet or be greater than 20 feet in height. All buildings associated with the Sports Complex area shall be located greater than 200 feet from the southern boundary of the east-west runway.
- (10) **BO-AMM-8f.** The City shall ensure that all artificial structures and buildings associated with the Sports Complex are designed to prohibit avian perching or that all artificial structures are fitted with antiperching devices that will be maintained in perpetuity.
- (11) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (12) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (13) **BO-AMM-56.** The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park Department or other Service-approved entity.
- (14) BO-TC-1C. Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

C. Civic Core (outside numbered zones) (Area "C")

The following Restrictions apply to the use and management of the Civic Core area (outside numbered zones), more particularly described and depicted in Exhibit 3-C attached hereto and incorporated herein by this reference:

- (1) BO-AMM-6a. The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) **BO-AMM-6b and 6c.** The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December

- 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns is prohibited in perpetuity.
- (4) BO-AMM-7. Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.
- (5) **BO-AMM-9d.** Sporting fields within the Civic Core Area shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels.
- (6) **BO-AMM-9d.** The City shall ensure that all anti-perching devices on light posts proposed for the sporting fields are maintained in perpetuity.
- (7) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (8) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (9) BO-AMM-56. The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Serviceapproved entity.
- (10) **BO-TC-1C.** Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - All lights shall be directed away and/or screened from the VA Undeveloped Area.

c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

D. Civic Core/Zone 1A (Area "D")

The following Restrictions apply to the use and management of the Civic Core/Zone 1 area, more particularly described and depicted in Exhibit 3-D attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) BO-AMM-6b and 6c. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terms, is prohibited in perpetuity.
- (4) **BO-AMM-7.** Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.
- (5) BO-AMM-9a. No new buildings, light posts, vegetation greater than 4 feet in height, landscape turf, or other structures greater than 4 feet in height shall be constructed in this area without prior approval from the Service. The Service shall review all proposed plans to ensure compliance with the 2012 Biological Opinion.
- (6) BO-AMM-9d. Sporting fields within the Civic Core Area shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels.
- (7) **BO-AMM-9d.** The City shall ensure that all anti-perching devices on light posts proposed for the sporting fields are maintained in perpetuity.

- (8) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (9) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (10) BO-AMM-56. The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (11) BO-TC-1C. Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - b. All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

E. Civic Core/Zone 2 (Area "E")

The following Restrictions apply to the use and management of the Civic Core/Zone 2 area, more particularly described and depicted in Exhibit 3-E attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) BO-AMM-6b and 6c. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns, is prohibited in perpetuity.
- (4) **BO-AMM-7.** Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point

California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.

- (5) **BO-AMM-9b.** Any new buildings constructed or extensions of existing buildings shall not exceed the height of the existing buildings.
- (6) BO-AMM-9b. No palm trees shall be allowed in this zone. Within line-of-sight of the existing least tern colony, landscaping shall be restricted to vegetation less than 4 feet in height. In areas outside of the line-of-sight of the existing least tern colony, no tree species capable of growing to greater than 20 feet in height shall be planted and shrubs shall be managed as to not exceed 6 feet in height. The density of trees and shrubs in this area shall not exceed one tree or shrub per 550 square feet. The City shall prepare a palette of tree and shrub species proposed for planting in this area. The palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area.
- (7) **BO-AMM-9b.** Light posts in this area 20 feet or greater in height shall contain anti-perching devices, which will be maintained in perpetuity.
- (8) BO-AMM-9d. Sporting fields within the Civic Core Area shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels.
- (9) **BO-AMM-9d.** The City shall ensure that all anti-perching devices on light posts proposed for the sporting fields are maintained in perpetuity.
- (10) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (11) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (12) **BO-AMM-56.** The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area

¹ Any reference to "existing" within this Declaration shall mean and refer to the date that the 2012 Biological Opinion was issued – August 29, 2012.

will be conducted by East Bay Regional Park District or other Serviceapproved entity.

- (13) **BO-TC-1C.** Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - b. All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

F. Civic Core/Zone 3 (Area "F")

The following Restrictions apply to the use and management of the Civic Core/Zone 3 area, more particularly described and depicted in Exhibit 3-F attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) BO-AMM-6b and 6c. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 5. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns, is prohibited in perpetuity.
- (4) BO-AMM-7. Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.
- (5) **BO-AMM-9b.** Any new buildings constructed or extensions of existing buildings shall not exceed the height of the existing buildings.
- (6) **BO-AMM-9b.** No palm trees shall be allowed in this zone. Within line-of-sight of the existing least tern colony, landscaping shall be restricted to vegetation less than 4 feet in height. In areas outside of the line-of-sight of the existing least tern colony, no tree species capable of

growing to greater than 20 feet in height shall be planted and shrubs shall be managed as to not exceed 6 feet in height. The density of trees and shrubs in this area shall not exceed one tree or shrub per 550 square feet. The City shall prepare a palette of tree and shrub species proposed for planting in this area. The palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area.

- (7) **BO-AMM-9b.** Light posts in this area 20 feet or greater in height shall contain anti-perching devices, which will be maintained in perpetuity.
- (8) **BO-AMM-9d.** Sporting fields within the Civic Core Area shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels.
- (9) **BO-AMM-9d.** The City shall ensure that all anti-perching devices on light posts proposed for the sporting fields are maintained in perpetuity.
- (10) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, at any altitude, (as depicted in Exhibit 1), between April 1 and August 15.
- (11) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (12) BO-AMM-56. The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (13) BO-TC-1C. Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

G. Civic Core/Zone 4 (Area "G")

The following Restrictions apply to the use and management of the Civic Core/Zone 4 area, more particularly described and depicted in Exhibit 3-G attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) **BO-AMM-6b and 6c**. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns, is prohibited in perpetuity.
- (4) **BO-AMM-7.** Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.
- (5) **BO-AMM-9c.** If Building 19 or the fire house is replaced with a new building, the new building shall not exceed 20 feet in height, not extend farther west and east than the western and eastern most point of the existing building, and not exceed the existing width of the building as measured from north to south.
- (6) **BO-AMM-9c.** A new building, not to exceed 20 feet in height, may be constructed just east of Building 19 or may be added on to the fire house provided that the new building/extension is not in direct line-of-sight of any portion of the existing least tern colony.
- (7) **BO-AMM-9c.** New buildings may have an additional 5 feet of height to accommodate heating/conditioning/ventilation units as long as these units are not within the line of sight of the least tern colony or the units are placed as far back and away from the side of the building facing the tern colony as possible and avian predator perch deterrents are installed and maintained on these units in perpetuity.
- (8) **BO-AMM-9d.** Sporting fields within the Civic Core Area shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels.

- (9) **BO-AMM-9d.** The City shall ensure that all anti-perching devices on light posts proposed for the sporting fields are maintained in perpetuity.
- (10) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (11) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (12) **BO-AMM-56.** The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (13) **BO-TC-1C.** Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

H. Marina (outside numbered zones) (Area "H")

The following Restrictions apply to the use and management of the Marina area (outside numbered zones), more particularly described and depicted in Exhibit 3-H attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) BO-AMM-6b and 6c. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns, is prohibited in perpetuity.
- (4) **BO-AMM-7.** Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least

tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.

- (5) **BO-AMM-10d.** As detailed stormwater management and monitoring plans for the Marina are developed by the City, they shall be developed in coordination with the Service and implemented in perpetuity to protect open water foraging areas for the least tern. The plans shall be reviewed and approved by the Service contemporaneously with the City environmental review process and prior to development of the project in this area.
- BO-AMM-10e. Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.
- (7) BO-AMM-10f. A no-wake zone during the least tern breeding season (1 April to 15 August) will be established and clearly demarcated on all submerged lands south of former NAS Alameda that are transferred to the City. The City will place floating signs or buoys identifying the no wake zone to boaters traversing this area.
- (8) BO-AMM-10g. No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (9) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (10) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

- (11) BO-AMM-56. The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (12) BO-TC-1C. Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - b. All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

I. Marina/Zone 1B (Area "I")

The following Restrictions apply to the use and management of the Marina/Zone 1 area, more particularly described and depicted in Exhibit 3-I attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) BO-AMM-6b and 6c. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 5. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns, is prohibited in perpetuity.
- (4) **BO-AMM-7.** Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City

- sources will not violate this condition, and shall provide lighting requirements to all project applicants.
- (5) **BO-AMM-10a.** No new buildings, light posts, vegetation greater than 4 feet in height, landscape turf, or other structures greater than 4 feet in height shall be constructed. The Service shall review all proposed plans to ensure compliance with the 2012 Biological Opinion.
- (6) **BO-AMM-10d.** As detailed stormwater management and monitoring plans for the Marina are developed by the City, they shall be developed in coordination with the Service and implemented in perpetuity to protect open water foraging areas for the least tern. The plans shall be reviewed and approved by the Service contemporaneously with the City environmental review process and prior to development of the project in this area.
- (7) BO-AMM-10e. Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.
- (8) BO-AMM-10f. A no-wake zone during the least tern breeding season (1 April to 15 August) will be established and clearly demarcated on all submerged lands south of former NAS Alameda that are transferred to the City. The City will place floating signs or buoys identifying the no wake zone to boaters traversing this area.
- (9) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (10) BO-AMM-54. There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (11) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (12) BO-AMM-56. The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public

access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.

- (13) BO-TC-1C. Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - b. All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

J. Marina/Zone 5 (Area "J")

The following Restrictions apply to the use and management of the Marina/Zone 5 area, more particularly described and depicted in Exhibit 3-F attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) **BO-AMM-6b** and **6c**. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** The City shall prohibit, in perpetuity, feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns.
- (4) **BO-AMM-7**. Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.

- (5) **BO-AMM-10b.** Building 25 may be reconstructed within the footprint of this zone, but any new building in this zone cannot exceed the height of the existing building (55 feet).
- (6) BO-AMM-10b. Landscaping shall be restricted to vegetation less than 4 feet in height (no palm trees) within the current line-of-sight portion of the northeast comer of this zone. Within line-of-sight of the existing least tern colony, landscaping shall be restricted to vegetation less than 4 feet in height. In areas outside of the line-of-sight of the existing least tern colony, no tree species capable of growing to greater than 20 feet in height shall be planted and shrubs shall be managed as to no exceed 6 feet in height. The density of trees and shrubs in this area shall not exceed one tree or shrub per 550 square feet. The City shall prepare a palette of tree and shrub species proposed for planting in this area. The palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area.
- (7) **BO-AMM-10b.** Newly constructed buildings and any artificial structures 20 feet or greater in height shall contain anti-perching devices which will be maintained in perpetuity.
- (8) **BO-AMM-10d.** As detailed stormwater management and monitoring plans for the Marina are developed by the City, they shall be developed in coordination with the Service and implemented in perpetuity to protect open water foraging areas for the least tern. The plans shall be reviewed and approved by the Service contemporaneously with the City environmental review process and prior to development of the project in this area.
- BO-AMM-10e. Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.
- (10) **BO-AMM-10f.** A no-wake zone during the least tern breeding season (1 April to 15 August) will be established and clearly demarcated on all submerged lands south of former NAS Alameda that are transferred to

- the City. The City will place floating signs or buoys identifying the no wake zone to boaters traversing this area.
- (11) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (12) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (13) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (14) BO-AMM-56. The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (15) **BO-TC-1C.** Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

K. Marina/Zone 6 (Area "K")

The following Restrictions apply to the use and management of the Marina/Zone 6 area, more particularly described and depicted in Exhibit 3-K attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-6a.** The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) BO-AMM-6b and 6c. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.

- (3) **BO-AMM-6d.** The City shall prohibit, in perpetuity, feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns.
- (4) BO-AMM-7. Lighting shall be allowed as long as the cumulative increase in ambient nighttime light levels within 750 feet of the least tern colony, from VA and City sources, do not increase by more than 10 percent of pre-conveyance levels, as set forth in the Alameda Point California Least Tern Colony Existing Lighting Study, attached hereto as Exhibit 5, with full development of the NWT, Civic Core, and Marina areas, including VA development. The City shall perform a design review for all proposed development within the NWT to ensure that the cumulative increase in ambient nighttime light levels from VA and City sources will not violate this condition, and shall provide lighting requirements to all project applicants.
- (5) **BO-AMM-10c.** No new buildings greater than 20 feet in height shall be constructed in this zone.
- (6) BO-AMM-10c. New buildings may have an additional 5 feet of height to accommodate heating/conditioning/ventilation units as long as these units are not within the line of sight of the least tern colony or the units are placed as far back and away from the side of the building facing the tern colony as possible and avian predator perch deterrents are installed and maintained on these units in perpetuity.
- (7) **BO-AMM-10c.** No palm trees shall be allowed in this area. Within line-of-sight of the existing least tern colony landscaping shall be managed as to not exceed 4 feet in height. In areas outside of the line-of-sight of the existing least tern colony no tree species capable of growing to greater than 20 feet in height shall be planted and shrubs shall be managed as to no exceed 6 feet in height. The density of trees and shrubs in this area shall not exceed one tree or shrub per 550 square feet. The City shall prepare a palette of tree and shrub species proposed for planting in this area. The palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area.
- (8) **BO-AMM-10c.** Newly constructed buildings and any artificial structures 20 feet or greater in height shall contain anti-perching devices which will be maintained in perpetuity.
- (9) **BO-AMM-10d.** As detailed stormwater management and monitoring plans for the Marina are developed by the City, they shall be developed in coordination with the Service and implemented in perpetuity to protect open water foraging areas for the least tern. The plans shall be reviewed and approved by the Service contemporaneously with the City environmental review process and prior to development of the project in this area.
- (10) **BO-AMM-10e.** Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to

this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.

- (11) BO-AMM-10f. A no-wake zone during the least tern breeding season (1 April to 15 August) will be established and clearly demarcated on all submerged lands south of former NAS Alameda that are transferred to the City. The City will place floating signs or buoys identifying the no wake zone to boaters traversing this area.
- (12) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (13) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, at any altitude, (as depicted in Exhibit 1), between April 1 and August 15.
- (14) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (15) BO-AMM-56. The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (16) BO-TC-1C. Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

L. Submerged Parcel ALA-01-EDC (Area "L")

The following Restrictions apply to the use and management of Parcel ALA-01-EDC, more particularly described and depicted in Exhibit 3-L attached hereto and incorporated herein by this reference:

- (1) BO-AMM-5. (1) no development (e.g. marinas or piers) is allowed within the parcel, and (2) City shall not issue permits for any coordinated water-based activities, such as regattas or other activities that may concentrate boating activity within the parcel, during the least tern breeding season (April 1 through August 15). Notwithstanding these prohibitions and restrictions, the City shall be permitted adequate ingress and egress for the purpose of access to and use of the City's property, and dredging shall not be prohibited.
- (2) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (3) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (4) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

M. Submerged Parcel ALA-07-EDC (Area "M")

The following Restrictions apply to the use and management of Parcel ALA-07-EDC, more particularly described and depicted in Exhibit 3-M attached hereto and incorporated herein by this reference:

- (1) BO-AMM-5. (1) no development (e.g. marinas or piers) is allowed within the parcel, and (2) City shall not issue permits for any coordinated water-based activities, such as regattas or other activities that may concentrate boating activity within the parcel, during the least tern breeding season (April 1 through August 15). Notwithstanding these prohibitions and restrictions, the City shall be permitted adequate ingress and egress for the purpose of access to and use of the City's property, and dredging shall not be prohibited.
- (2) **BO-AMM-10e.** Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed

within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.

- (3) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (4) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, at any altitude, (as depicted in Exhibit 1), between April 1 and August 15.
- (5) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

N. Submerged Parcel ALA-08-EDC (Area "N")

The following Restrictions apply to the use and management of Parcel ALA-08-EDC, more particularly described and depicted in Exhibit 3-N attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-5.** (1) no development (e.g. marinas or piers) is allowed within the parcel, and (2) City shall not issue permits for any coordinated water-based activities, such as regattas or other activities that may concentrate boating activity within the parcel, during the least tern breeding season (April 1 through August 15). Notwithstanding these prohibitions and restrictions, the City shall be permitted adequate ingress and egress for the purpose of access to and use of the City's property, and dredging shall not be prohibited.
- (2) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (3) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, at any altitude, (as depicted in Exhibit 1), between April 1 and August 15.
- (4) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

O. Submerged Parcel ALA-09-EDC (Area "O")

The following Restrictions apply to the use and management of Parcel ALA-09-EDC, more particularly described and depicted in Exhibit 3-O attached hereto and incorporated herein by this reference:

- (1) BO-AMM-5. (1) no development (e.g. marinas or piers) is allowed within the parcel, and (2) City shall not issue permits for any coordinated water-based activities, such as regattas or other activities that may concentrate boating activity within the parcel, during the least tern breeding season (April 1 through August 15). Notwithstanding these prohibitions and restrictions, the City shall be permitted adequate ingress and egress for the purpose of access to and use of the City's property, and dredging shall not be prohibited.
- BO-AMM-10e. Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.
- (3) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (4) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (5) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

P. Submerged Parcel ALA-10-EDC (Area "P")

The following Restrictions apply to the use and management of Parcel ALA-10-EDC, more particularly described and depicted in Exhibit 3-P attached hereto and incorporated herein by this reference:

(1) **BO-AMM-5.** (1) no development (e.g. marinas or piers) is allowed within the parcel, and (2) City shall not issue permits for any coordinated water-based activities, such as regattas or other activities that may concentrate boating activity within the parcel, during the least tern breeding season (April 1 through August 15). Notwithstanding these prohibitions and restrictions, the City shall be permitted adequate

- ingress and egress for the purpose of access to and use of the City's property, and dredging shall not be prohibited.
- (2) BO-AMM-10f. A no-wake zone during the least tern breeding season (1 April to 15 August) will be established and clearly demarcated on all submerged lands south of former NAS Alameda that are transferred to the City. The City will place floating signs or buoys identifying the no wake zone to boaters traversing this area.
- (3) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (4) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (5) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

Q. Submerged Parcel ALA-11-EDC (Area "Q")

The following Restrictions apply to the use and management of Parcel ALA-11-EDC, more particularly described and depicted in Exhibit 3-Q attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-10e.** Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.
- (2) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (3) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.

(4) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

R. Submerged Parcel ALA-12-EDC (Area "R")

The following Restrictions apply to the use and management of Parcel ALA-12-EDC, more particularly described and depicted in Exhibit 3-R attached hereto and incorporated herein by this reference:

- (1) **BO-AMM-5.** (1) no development (e.g. marinas or piers) is allowed within the parcel, and (2) City shall not issue permits for any coordinated water-based activities, such as regattas or other activities that may concentrate boating activity within the parcel, during the least tern breeding season (April 1 through August 15). Notwithstanding these prohibitions and restrictions, the City shall be permitted adequate ingress and egress for the purpose of access to and use of the City's property, and dredging shall not be prohibited.
- (2) BO-AMM-10e. Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.
- (3) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (4) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (5) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

S. Submerged Parcel ALA-14-EDC (Area "S")

The following Restrictions apply to the use and management of Parcel ALA-14-EDC, more particularly described and depicted in Exhibit 3-S attached hereto and incorporated herein by this reference:

- BO-AMM-10e. Watercraft exclusion zones will be established and (1) clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.
- (2) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (3) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (4) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

T. Submerged Parcel ALA-15-EDC (Area "T")

The following Restrictions apply to the use and management of Parcel ALA-15-EDC, more particularly described and depicted in Exhibit 3-T attached hereto and incorporated herein by this reference:

(1) BO-AMM-5. (1) no development (e.g. marinas or piers) is allowed within the parcel, and (2) City shall not issue permits for any coordinated water-based activities, such as regattas or other activities that may concentrate boating activity within the parcel, during the least tern breeding season (April 1 through August 15). Notwithstanding these prohibitions and restrictions, the City shall be permitted adequate ingress and egress for the purpose of access to and use of the City's property, and dredging shall not be prohibited.

- BO-AMM-10e. Watercraft exclusion zones will be established and clearly demarcated on submerged lands south of the VA Fed Transfer Parcel and within 300 feet of the breakwater. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to six per day (three ingress and three egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at any time. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.
- (3) **BO-AMM-10g.** No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season.
- (4) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (5) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

U. Main Street Neighborhood (Area "U")

The following Restrictions apply to the use and management of the Main Street Neighborhood area, more particularly described and depicted in Exhibit 3-U attached hereto and incorporated herein by this reference:

- (1) BO-AMM-6a. The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) BO-AMM-6b and 6c. The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved on December 10, 2012, a copy of which is attached hereto as Exhibit 4. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** Feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns, is prohibited in perpetuity.

- (4) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (5) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.
- (6) **BO-AMM-56.** The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (7) **BO-TC-1C.** Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - b. All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.

V. Inner Harbor (Area "V")

The following Restrictions apply to the use and management of the Inner Harbor area, more particularly described and depicted in Exhibit 3-V attached hereto and incorporated herein by this reference:

- (1) BO-AMM-6a. The First Grantee shall notify existing Occupants of the Restrictions and thereafter these Restrictions shall be incorporated by reference in all deeds and leases of any portion of the Property.
- (2) **BO-AMM-6b and 6c.** The City has developed a Predator Management Plan relating to the management and use of Property to be conveyed to the City, which the Service has approved. The City shall be responsible for implementing the Predator Management Plan. Such predator management, as described in the Predator Management Plan, shall continue in perpetuity.
- (3) **BO-AMM-6d.** The City shall prohibit, in perpetuity, feral cat feeding stations and colonies, and the feeding of any native and non-native wildlife species that are potential predators of least terns.
- (4) **BO-AMM-54.** There is a "no-fly zone" established within 0.75 mile of the least tern colony, (as depicted in Exhibit 1), at any altitude, between April 1 and August 15.
- (5) **BO-AMM-55.** Fireworks displays will not be authorized from April 1 to August 15.

- (6) BO-AMM-56. The portion of the potential future Bay Trail that surrounds the western, southern, and eastern sides of the VA Fed Transfer Parcel will be closed from April 1 to August 15, and no public access to those areas will be allowed during that time. Such public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances describing the purpose of the annual trail closure. Enforcement of the potential future Bay Trail annual closure restrictions and access to the VA Undeveloped Area will be conducted by East Bay Regional Park District or other Service-approved entity.
- (7) **BO-TC-1C.** Within line of sight of the VA Undeveloped Area:
 - a. The number of new lights shall be limited to the minimum number required for building security.
 - All lights shall be directed away and/or screened from the VA Undeveloped Area.
 - c. Tinting of windows, with non-reflective tinting material, within the line of sight of the VA Undeveloped Area shall be required.
- 4. **Enforcement.** The City, as the First Grantee and in its continuing capacity as the city with jurisdiction and police powers over the Property, shall, subject to funding availability, make all reasonable efforts within its authority to enforce the Restrictions contained herein; provided, however, the City shall have no right to enforce the Restrictions against the United States Government. For any property owned in the name of the United States, enforcement of the Restrictions shall be strictly limited to USFWS' authority under Section 7 of the Endangered Species Act. This Declaration shall not be construed to create enforcement rights for the City or other entity against the United States Government. The USFWS is vested with the authority to protect Federally listed endangered or threatened species under the Endangered Species Act and related Federal laws and implementing regulations. Occupants and Owners are hereby notified that USFWS in the normal exercise of its jurisdiction over the Property. retains the authority to enforce the Restrictions described herein, including the right to engage in consultation with the City and/or issue new biological opinions governing the Property should USFWS determine that the area is being used inconsistently with the 2012 Biological Opinion or the provisions herein.
- 5. <u>Incorporation into Deeds and Leases</u>. Declarant and all of its successors in interests under this Declaration desire and covenant that the Restrictions set forth herein shall be incorporated by reference in all deeds and leases of any portion of the Property. Recordation of this Declaration shall be deemed binding on all successors, assigns and lessees, regardless of whether the terms and conditions of this Declaration have been explicitly incorporated into or attached to any given deed or lease.
- 6. **Binding Effect.** Declarant agrees for itself, and its successors or assigns, that the Declaration shall remain in full force and effect and shall not be amended or modified except with the concurrence of the USFWS.

7. <u>Severability</u>. If any provision of this Declaration or application thereof, shall to any extent be held to be invalid or unenforceable by a court of competent jurisdiction, the remainder of this Declaration, or the application of such provision to circumstances other than those to which it is invalid or unenforceable, shall not be affected hereby, and each provision of this Declaration shall be valid and shall be enforced to the extent permitted by law.

IN WITNESS WHEREOF the United States of America has caused this Declaration to be executed in its name on its behalf by its officer thereunto duly authorized as of the date made as above written.

UNITED STATES OF AMERICA,

Acting by and through the Department of the Navy

By: Ether Ewell

Esther P. Ewell

Real Estate Contracting Officer Base Realignment & Closure Office

State of California County of Alameda

On June 4, 2013 before me, OVID R. MOWREY, a Notary Public, personally appeared

Esther P. Ewell who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

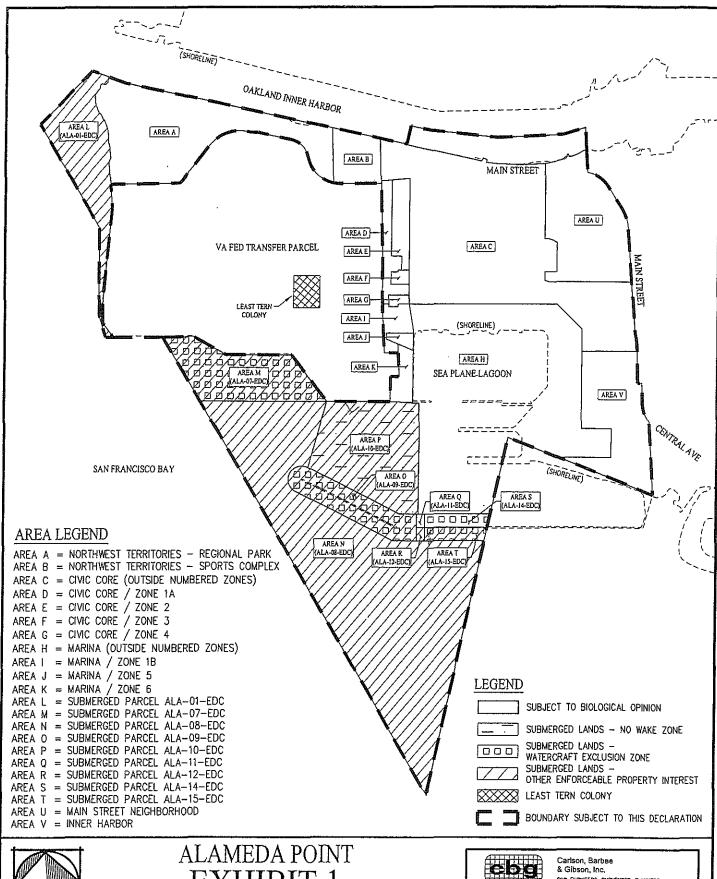
WITNESS my hand and official seal.

Signature (Seal)



Exhibit 1

(Map of Property and Biological Opinion Areas)





CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA DATE: MAY 22, 2013 SCALE: 1" = 2,000"



CIVE. ENGINEERS - SURVEYORS - P

2633 CAMINO RAMON, SUITE 350 SAN RAMON, CALIFORNIA 94583

Exhibit 2 2012 Biological Opinion



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Sacramento Fish and Wildlife Office

2800 Cottage Way, Room W-2605 Sacramento, California 95825-1846

In Reply Refer To: 81420-2009-F-0952-4

AUG 2 9 2012

Ms. Laura Duchnak Director, BRAC PMO West Department of the Navy Base Realignment and Closure Program Management Office West 1455 Frazee Road, Suite 900 San Diego, California 92108

Ms. Sheila M. Cullen
Network Director, VA Sierra Pacific Network (VISN 21)
VA Sierra Pacific Network (10N21)
Department of Veterans Affairs
VISN21 CAM Headquarters
201 Walnut Avenue
Mare Island, California 94592

Subject: Biological Opinion on the Proposed Naval Air Station Alameda Disposal and Reuse Project in the City of Alameda, Alameda County, California

Dear Ms. Duchnak and Ms. Cullen:

This is in response to the U.S. Department of the Navy's (Navy) and the U.S. Department of Veterans Affairs' (VA) May 21, 2012, request for formal section 7 consultation with the U.S. Fish and Wildlife Service (Service) on the proposed Naval Air Station Alameda (NAS Alameda) Disposal and Reuse project in the City of Alameda, Alameda County, California. Your request for formal consultation was received by the Service on May 24, 2012. At issue are the potential effects of the proposed project to the endangered California least tern (Sternula antillarum browni) (least tern) and threatened Pacific coast population of the western snowy plover (Charadrius alexandrinus nivosus) (snowy plover). The Service concurs with your determination that the proposed project is likely to adversely affect the least tern. The Service also concurs with your determination that the proposed project may affect, but is not likely to adversely affect the snowy plover. This document is issued under the authority of the Endangered Species Act of 1973, as amended (16 U.S.C. § 1531 et seq.) (Act), and represents the Service's biological opinion on the effects of the proposed project to the least tern.

The Service concurs with your determination that the proposed action may affect, but is not likely to adversely affect the snowy plover for the following reason: the snowy plover is rarely sighted within the action area, a single individual once every few years, and has not been documented nesting at the site for more than 20 years. Based on current habitat use of the action area by the snowy plover, the effects of the proposed action to this species would be insignificant and discountable.

The Service issued a biological opinion for the Navy's disposal and reuse of NAS Alameda in 1999 (1999 BO) (Service File Number 1-1-98-F-2). The 1999 BO provided incidental take authorization of the least tern and endangered California brown pelican (Pelecanus occidentalis californicus) (brown pelican) for the adverse effects to these species as a result of transferring a portion of NAS Alameda to the City of Alameda (City) for redevelopment. The brown pelican has since been removed from the list of threatened and endangered species due to recovery. The primary means by which the adverse effects of the base transfer and redevelopment to the least tern were minimized in the 1999 BO was through the conservation of 525 acres of land and 375 acres of submerged lands, including the least tern colony site, and the subsequent establishment of a unit of the Service's National Wildlife Refuge System (Proposed Refuge). In addition to the Proposed Refuge, the type and amount of development to the north, south, and west of the Proposed Refuge was limited to minimize the likely increase in human-associated predators of least terns, minimize conditions that increase predator success, and to provide the least tern colony with: (1) unobstructed access to foraging habitats; (2) an adequate buffer between the least tern colony and human development and disturbance, which minimizes predation pressures and perceived predation; and (3) an adequate area to conduct effective predator management at the site. Although the Service requested the conveyance of the Proposed Refuge from the Navy. the property was not transferred to the Service due to outstanding issues over site remediation. As a result, the primary means by which the effects of redevelopment to the least tern were minimized in the 1999 BO was never realized. Due to the impasse between the Service and the Navy, the VA requested the conveyance of the Proposed Refuge for the purpose of constructing and operating a VA Outpatient Clinic and National Cemetery Complex (VA Project).

The proposed VA Project requires significant changes to the project description and effects analysis of the 1999 BO; thus, the VA Project and the City's redevelopment of NAS Alameda are interdependent actions. Although more than 13 years have passed since the issuance of the 1999 BO, most of the property at NAS Alameda has not been transferred by the Navy to the City and an insignificant amount of the development authorized in the 1999 BO has occurred. Therefore, this biological opinion supersedes the 1999 BO.

This biological opinion is based on: (1) an informal section 7 consultation process in which the Service, Navy, VA, City, and East Bay Regional Parks District (EBRPD) worked collaboratively to draft a project description to minimize the adverse affects of the proposed project to the least tern; (2) numerous meetings, emails, and telephone conversations between the Service, Navy, VA, City, and EBRPD; (3) the Final Proposed Action for Former Naval Air Station Alameda (Alameda Point), Alameda, California, dated May 8, 2012; (4) the Final Alameda Point Proposed Avoidance and Minimization Measures, dated May 8, 2012; and (5) other information available to the Service.

Consultation History

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December 15, 2005: The Service met with the VA and Navy to discuss the VA's interest in

acquiring the Proposed Refuge via a Federal-to-Federal transfer.

June 5, 2006: The Service met with the VA to discuss the VA's proposed site

layouts, issues regarding future control or ownership of submerged lands, and the VA's submittal of a property transfer request to the Navy for the

Proposed Refuge.

January 9, 2007: At a meeting with the Service, the VA reported they had formally

submitted a request to transfer 579 acres at NAS Alameda, from the Navy to the VA, including the Proposed Refuge. Other topics discussed were the proposed downlisting of the least tern, funding mechanisms for least tern colony management, ownership of the submerged lands, and a

development setback from the least tern colony.

May 31, 2007: The Service met with the VA to discuss the possibility of the City taking

ownership of the submerged lands, a three-party Memorandum of Understanding or Memorandum of Agreement to ensure adequate

patrolling/protection of the brown pelican roost on Breakwater Island, and

conceptual site plan options for the VA Project.

August 1, 2007: The Service met with the VA to discuss the future ownership of the

submerged lands, a meeting with Golden Gate Audubon Society, a species list for the site, the compensation approach for the adverse affects of the

proposed VA Project, and conceptual site plans.

October 3, 2007: The Service met with the VA to discuss the proposed development

envelope along the northern edge of the site, the ownership of submerged lands, the potential for EBRPD to become manager of the least tern colony, long term funding for least tern management, compensation for the

adverse affects to the least tern, lessons learned from the 1999 BO.

December 20, 2007: The Service, VA, Navy, and City met to discuss a potential approach for

conveyance of the submerged lands to the City, subject to a conservation easement or other property encumbrance. The Service recommended the preparation and submittal of a Biological Assessment (BA) that addressed both the proposed VA development and any foreseeable changes to the 1999 BO; with the assumption a new biological opinion would supersede

the 1999 BO.

June 10, 2009: The Service received a BA and request for formal section 7 consultation

from the Navy for the VA Project and a revised project description for the

City's proposed redevelopment.

June 23, 2009:

The Service met with the Navy and VA to review the BA submitted on

June 10, 2009.

July 10, 2009:

The Service sent the Navy a letter (Service File Number 81420-2009-TA-0952-1) informing them that formal section 7 consultation could not be initiated, because all of the information necessary to complete a biological opinion had not been provided to the Service in the BA. The letter also outlined the information required to initiate formal section 7 consultation.

September 21, 2009:

The Service attended a conference call with the Navy to discuss the section 7 consultation process, the need for additional minimization and avoidance measures, due to the increased effects to the least tern and brown pelican as a result of additional development, the biological basis for the proposed buffer outlined in the BA, the effects of noise on the least tern as a result of the proposed construction during the least tern breeding season, and the schedule for the completion of a revised BA.

November 20, 2009: The Service attended a conference call with the Navy and VA. The Navy . It is indicated the next BA would have a revised buffer and a revised VA Project configuration, each with an effects analysis. The Service stated that the VA Project and the City's redevelopment of the site were interdependent actions, requiring the reinitiation of section 7 consultation for the 1999 BO. The Service expressed concern that the City's revised redevelopment plan included significant changes to the 1999 BO. including residential development adjacent to the least tern colony. The Service also expressed the need to protect the least tern colony in perpetuity through an endowment and conservation easement. The VA indicated it did not intend to place an easement on the undeveloped areas because in the event the least tern was delisted, the VA wanted to reserve the ability to develop the site.

February 3, 2010:

The Service attended a conference call with the Navy. The Service expressed concern that the recently revised VA Project configuration included additional development without an adequate effects analysis or the incorporation of any additional avoidance and minimization measures. The Service reiterated the need to protect the least tern colony and undeveloped areas in perpetuity through an endowment and conservation easement.

May 20, 2010:

The Service sent the City a comment letter (Service File Number 81420-2009-TA-0952-2) on the Notice of Preparation of an Environmental Impact Report and Public Scoping Meeting for the Alameda Point Project dated April 20, 2010, in which the Service outlined concerns regarding changes to the project description of the 1999 BO, likely increased effects to the least tern, and the need for the City, Navy, VA, and Service to work

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together to minimize effects to the least tern.

October 14, 2010: The Service attended a conference call with the Navy to discuss the

timeline for receiving a revised BA, the potential for EBRPD to hold a conservation easement over the undeveloped areas at NAS Alameda, and

reconfiguring the VA Project to reduce effects to the least tern.

August 30, 2011: The Service received a BA and letter from the Navy and VA requesting

formal incremental step section 7 consultation for the VA Project.

September 29, 2011: The Service sent the Navy and VA a letter (Service File Number 81420-

2009-TA-0952-3) informing them the Service was unable to initiate an incremental step section 7 consultation as per guidance provided in the

Endangered Species Consultation Handbook Proceedings for Conducting

Consultation and Conference Activities Under Section 7 of the

Endangered Species Act (U.S. Fish and Wildlife Service and National Marine Fisheries Service 1998). The letter further stated that the VA

Project and the City's redevelopment activities were interdependent, requiring the VA and Navy to reinitiate consultation for the 1999 BO.

October 7, 2011: The Service attended a meeting with the Navy, VA, City, and EBRPD to

discuss: (1) the recent news that the City would receive their portion of NAS Alameda from the Navy at no cost; (2) legal issues the Navy faced with regards to changing any of the parcel boundaries to be transferred to the City or VA; (3) an EBRPD conceptual alternative to the VA Project,

which included moving a portion of the VA Project north, into the

Northwest Territories (NWT) and onto land to be conveyed to the City; (4) working through the informal section 7 consultation process to develop a Service-supported project description for the VA Project and the City's redevelopment plans; and (5) the long-term protection of the least term

colony and surrounding lands via a conservation easement.

October 19, 2011: The Service sent the VA and Navy a letter (Service File Number 81420-

2009-TA-0952-4) to memorialize the outcome of the meeting that took

place at the October 7, 2011 meeting.

February 2, 2012: The Service received a Draft Project Description, Draft Avoidance and

Minimization Measures, Draft Project Site Plans, and other supporting draft project related materials, from the Navy via email, for the VA Project

and the City's proposed redevelopment at NAS Alameda.

February 23, 2012: The Service emailed comments to the Navy on the Draft Project

Description, Draft Avoidance and Minimization Measures, Draft Project Site Plans, and other supporting draft project related materials to the Navy

for revision.

April 4, 2012:

The Service received a Revised Draft Project Description, Revised Draft Avoidance and Minimization Measures, Revised Draft Project Site Plans, and revisions to the other supporting draft project related materials, from the Navy via email, for the VA Project and the City's proposed redevelopment at NAS Alameda.

April 16, 2012:

The Service emailed comments to the Navy on the Revised Draft Project Description, Revised Draft Avoidance and Minimization Measures, Revised Draft Project Site Plans, and revisions to other supporting draft project related materials to the Navy.

April 17, 2012:

The Service met with the Navy, VA, City, and EBRPD to discuss the ongoing revisions to the VA Project and City's redevelopment plans for NAS Alameda, including: (1) language for a Service-approved regional park management agency in the Northwest Territory; (2) language regarding future section 7 consultations for dredging; (3) the location and maintenance of the facilities supporting the least tern colony managers; (4) Service-approval of the agency that will enforce public access restrictions; (5) a proposed change to measures that minimize nighttime lighting; and (6) a potential term and condition to ensure the undeveloped area will remain undeveloped, in lieu of a conservation easement.

May 21, 2012:

The Service received an email from the Navy with attachments that included a letter dated May 21, 2012, from the Navy and VA requesting formal section 7 consultation with the Service for the VA Project and the City's proposed redevelopment at NAS Alameda, the final versions of the Revised Draft Project Description, Revised Draft Avoidance and Minimization Measures, Revised Draft Project Site Plans, and revisions to the other supporting draft project related materials.

May 24, 2012:

The Service received a letter from the Navy and VA requesting formal section 7 consultation with the Service for the VA Project and the City's proposed redevelopment at NAS Alameda.

BIOLOGICAL OPINION

Description of the Proposed Action

The purpose of the proposed action for the Navy is to dispose of property at NAS Alameda in accordance with the Defense Base Closure and Realignment Act of 1990. Disposal of the property at the former NAS Alameda would occur through a Federal-to-Federal transfer of approximately 624 acres to the VA and through an economic development conveyance of the remaining surplus property (approximately 1,704 acres) to the City. The purpose of the proposed action is for the VA to acquire the property and establish VA facilities to serve San Francisco Bay Area veterans and for the City to acquire property to develop consistent with the 1996 Reuse

Plan, as amended, with the exception of some limited changes to the proposed development of the NWT, as described in greater detail below.

The project action includes four components:

- 1. Property disposal by the Navy: The disposal action would consist of a Federal-to-Federal property transfer of approximately 624 acres of property at NAS Alameda from the Navy to the VA.
- 2. The VA's acquisition of the property from the Navy and development of the VA Project on approximately 112.4 acres of the 624-acre Federal transfer parcel and use of the property as follows:
 - a. Construction and operation of a Veterans Health Administration (VHA) in Outpatient Clinic (OPC), which will also include behavioral health services, a veterans Benefits Administration Outreach office and National Cemetery Administration (NCA) Public Information Center and offices;
 - b. Construction and operation of a NCA cemetery, including administrative and maintenance facilities located within the OPC;
 - c. Construction of a Conservation Management Office (CMO) to support least term management, education, and interpretive opportunities; and
 - d. Use of existing bunkers for storage of emergency supplies, use of the undeveloped area within 624-acre transfer parcel for emergency training exercises during the least tern non-breeding season (August 16-March 31), and use of undeveloped area within 624-acre transfer parcel as a staging area during emergencies and natural disasters such as earthquakes.
- 3. Property Disposal by the Navy: The disposal action would consist of an Economic Development Conveyance for the remaining surplus property from the Navy to the City.
- 4. City acquisition of the property from the Navy and development of the remaining property by the City consistent with the 1996 Reuse Plan, as amended, with the exception of some limited changes to the proposed development of the NWT, as described in greater detail below.

Project Action for the VA Federal Transfer Parcel

The Navy will dispose of approximately 624 acres of property at Alameda Point to the VA as a result of a Federal-to-Federal property transfer. While the parcel proposed for transfer is 624 acres, the area that would be developed with VA facilities and access road is approximately 112.4 acres and is referred to as the VA Development Area (Figure 1).

The remaining 511.3 acres to be transferred from the Navy to the VA is referred to as the VA Undeveloped Area. To provide for the long-term conservation of the least tern, the VA's commitment to implement land use restrictions for long-term maintenance, management, and monitoring of the least terns in accordance with this biological opinion will be documented in the Federal-to-Federal property transfer documents: Department of Defense Form 1354 with an attached Memorandum of Understanding.

The VA Project Action also includes granting limited access to a trail planned to run along the western and southern edge of the VA Federal transfer parcel. The trail would be open during the least tern non-breeding season (August 16 – March 31), and would connect to planned trail segments and other recreational facilities north and east of the VA Federal transfer parcel. The trail would be funded, constructed, and maintained by a Service-approved entity. The VA will retain the right, in case of emergency or otherwise at the VA's discretion, to close or restrict access to the trail. East Bay Regional Park District law enforcement personnel (or another Service-approved law enforcement agency) would be located at Robert Crown Memorial State Beach or the CMO and would regularly patrol the VA Undeveloped Area. If the trail is not being appropriately maintained and trespassing during the least tern breeding season is determined to have adverse effects to the least tern, the VA will permanently close the trail and take corrective action to assure trespassing is no longer a management concern. Before a decision is made to close the trail, the Service would provide EBRPD (or another Service-approved law enforcement agency) and the VA an opportunity to alleviate problems with trespass before the trail is closed.

Beyond the 624-acre VA Federal transfer parcel is the 6.1-acre access road /utility corridor. This corridor includes approximately 1,425 feet of West Redline Avenue directly east of the VA transfer parcel to the entry road from the Alameda Point North Gate, and a 3,292-foot segment of Main Street that extends from the Alameda Point North Gate east to where utilities would tie into the main sewer and water utility.

VHA Outpatient Clinic

The VA OPC building would be approximately 158,000 square feet. The facility would include a pharmacy, lab area, radiology department, outpatient surgery, urgent care, specialty clinics, and support functions including a canteen, clinic management and education center, administrative space, housekeeping, storage and employee lockers, lounges and toilets. Behavioral health services would also be provided at the OPC. A portion of the Ambulatory Care space would accommodate an Ambulatory Surgery Clinic and other outpatient surgical functions staffed and operated by the U. S. Air Force. Furthermore, the U. S. Coast Guard has expressed interest in operating a jointly staffed Women's Health Clinic serving female veterans, active duty U.S. Coast Guard and the Tricare population of Alameda County. In addition to VHA uses, approximately 10,000 square feet of the first floor would be used by the NCA and Veterans Benefits Administration.

The OPC building would be primarily two stories, with at least 75 percent of the roof area at or below 40 feet in height. A penthouse for mechanical equipment would occupy approximately 15 percent of the roof area and would not exceed a height of 47 feet measured from the top-of-slab

to the highest point of the penthouse. In addition, the roof at the lobby entrance of the OPC, approximately 10 percent of the total roof area, would not exceed a height of 54 feet measured from the top-of-slab to the highest point of the lobby roof. A 6,400 square-foot mechanical room would be located adjacent to the service wing on the north side of the OPC building. A 45-foot-tall flagpole is proposed on the north side of the OPC. Probable exterior building materials could include concrete masonry units, glass fiber reinforced concrete, metal panels, metal panel systems, pre-cast concrete, and cement plaster.

A parking area with approximately 632 spaces would be located on the east side of the OPC, and would include a shuttle drop-off/pick-up area used by Veterans. The parking area would be lit during early morning and late afternoon hours, as needed for security. All lights in the parking area and along the access road would be directional and point downward using shielded valences/surrounds, and equipped with anti-perching devices.

Patient appointments are typically scheduled between the hours 8:00 a.m. and 5:00 p.m., Monday through Friday. In addition, some outpatient services, including behavioral health services, would also be offered on Saturday and Sunday from 8:00 a.m. 12:00 p.m. Some VA staff may remain in the OPC after operating hours. There would be no emergency care and no overnight stays at the OPC. The normal staffing levels at the OPC are anticipated to be approximately 250 (both full-time and part-time staff). Based on data from other OPCs in the region, it is estimated that approximately 543 Veterans would be seen at the clinic each week day. During the weekend, it is estimated that approximately 70 Veterans would be seen at the clinic.

NCA Cemetery

The NCA proposes the construction of a National Cemetery to provide cremation burial options (columbarium) to the San Francisco Bay Area veteran population. The National Cemetery at the site would be comprised of architecturally grouped columbaria courts. Each columbaria court would consist of inurnment columbarium niches housing cinerary urns containing cremated remains. The columbarium niches are typically aligned in rows, 5 rows high, in pre-cast-concrete columbaria wall units. The highest columbaria wall would be approximately 9 feet high, including the columbaria unit base and cap. Additional height may be needed to make the caps of the columbarium walls unperchable by avian predators, but in any case will not exceed 10 feet in height. In addition to columbarium walls, the cemetery would feature a Memorial Wall, which is very similar to a columbarium wall. The cemetery would cover a total area of approximately 80 acres located west of the OPC. All road work and site improvements (i.e. roads, grading, and utilities) for the development within the initial 27-acre cemetery sub-development area will be completed in Phase I.

The cemetery layout, structures, roadways and other features would be developed in accordance with VA design and construction standards and specifications for national cemeteries. The main features of the cemetery include the following:

Committal Service Shelters: Covered pavilion-like structures that provide shelter from the wind, rain and sun during inurnment services. These structures are typically about 900 square

feet (25 feet by 36 feet), which is large enough to provide seating for approximately 10 to 20 people, with an additional paved area to provide standing room for others attending the service. These structures are typically supported on one side by a wall with a storage closet, and two to six columns on the other sides that allow for a 10-foot minimum vertical clearance. Two committal shelters will be built in Phase I, and one additional committal shelter would be constructed during subsequent phases of the cemetery.

Building materials used for committal service shelters are to be durable and relatively maintenance-free, such as brick, stucco, building stone, or cut masonry block; and are selected for life-cycle performance characteristics at a given project location. The roof structure is recommended to be standing seam metal (gabled or hipped) with gutters, leaders, downspouts, splash blocks, or underground pipe connection to ensure positive drainage from the structure. Open trusses, open column tops, or perching areas are not permitted due to the maintenance and cleaning required. Architectural features that invite birds or insects to nest are to be avoided.

Committal Service Shelter Parking Areas: A small parking area is proposed adjacent to each committal service shelter to accommodate the funeral cortege (funeral procession). This area is typically wide enough for parking approximately 30 vehicles (two rows of approximately 15 vehicles), and an open center lane for moving traffic.

Assembly Area: The Assembly Area is where special holiday memorial services are held, such as those held on Memorial and Veterans Days. Based on memorial service events held at other VA cemeteries on these two days of the year, as many as 1,000 to 5,000 people may attend these memorial services; therefore, a public address system is sometimes used. These memorial events would be organized, staged and conducted in a manner that would direct noise away from the least tern colony. Other features of the assembly area include a memorial walkway, a flagpole with a maximum height of 80 feet, and a carillon (bell tower) with a maximum height of 35 feet that plays bells or tones. The carillon would be located and operated such that it would not increase the ambient noise level at the least tern colony by more than 10 percent.

NCA Public Information Center: The Public Information Center is a resource for visiting cemetery guests. As presented above in the OPC description, the Public Information Center would be located on the first level of the OPC building and would consist of offices, a reception area and dedicated restrooms.

NCA Service Area (Maintenance Garage): A small maintenance garage on the north side of the OPC building is proposed for NCA staff.

Cortege Assembly Area: The Cortege Assembly Area is a pre-staging area adjacent to the NCA wing of the OPC. This area would consist of three lanes for vehicles to line up before proceeding to the Committal Service Shelter.

Other Elements: Interior roadways, signage, landscaping, benches, trash receptacles and flower containers will also be part of the NCA Cemetery. Trash receptacles will be provided

primarily for refuse associated with floral remembrances brought to the committal shelters or niches. No picnicking is permitted within the cemetery area.

As part of military tradition, a military honors salute may be performed during internment ceremonies at the NCA Cemetery. The military honors salute is a ceremonial act performed at military funerals as part of the drill and ceremony of the Honor Guard. It consists of a rifle party firing blank cartridges in three voileys, and would take place at the committal service shelters. The military honors salute will occur at the proposed committal service shelters, all three of which are more than 1,766 feet from the least tern colony. During special memorial services held on Memorial Day and Veterans Day, the military honors salute may also occur at the Assembly Area. The rifle party will direct firing away from the least tern colony, and solid structures such as committal service shelters or columbarium walls will shield the firing locations from the least tern colony. In addition, landscape berms may be created within the cemetery as a way to provide an additional noise and visual barrier. Berms greater than a distance of 2,132.5 feet from the least tern colony may be up to 12 feet in height. To further reduce the possibility of tall perches for avian predators, berms within 2,132.5 feet of the least tern colony will not exceed 6 feet in height.

Operation of NCA Facilities

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The cemetery would be open daily from sunrise to sunset, with possible expanded hours in the evening (until 8 p.m.) on Memorial and Veterans Days. No nighttime activities are proposed within the cemetery area; therefore, exterior lighting would be limited to the area adjacent to the VA building and parking area, and to illuminate the U.S. Flag near the assembly area. Only minimal lighting for monitoring the security of the site is proposed. It is anticipated that up to seven NCA staff would be working at the facility on a daily basis. An average of ten memorial or inumment services per day would take place. The attendance at these services would typically be five to fifteen people, but may be greater for some services.

Conservation Management Office

In addition to the VA facilities, a CMO is proposed to support the management of the least tern colony, predator management efforts, and may include other uses, such as an interpretive center supporting volunteer and public education programs. This building would be a one-story structure with a maximum height of 25 feet and approximately 2,500 square feet of space. The CMO would be located east of the OPC building and would accommodate Service personnel (or other contracted staff/volunteers) involved with management of the least tern colony as well as the VA's biological monitoring staff. Educational programs for the public may also be conducted at this building. The exterior materials of the CMO are not specified at this time; however, it would be designed to be complimentary to the proposed VA building. A small parking area, consisting of eight to ten parking spaces, is proposed adjacent to the CMO. A wall or fence would separate this building and parking area from the adjacent OPC area. Use of a portion of the main VA parking area for volunteer training, special events and weekend activities may occur if arranged in advance with the VA. The existing buildings currently used by Service staff and volunteers will remain available in order to provide equipment storage, shelter, and restroom

facilities for least tern managers and volunteers during breeding season, when close proximity to the tern colony is essential. Minimal improvements to the existing structures (paint, flooring, and replacement of some fixtures) will be made to the extent possible.

Operation of CMO

The CMO would be in operation daily from sunrise to sunset, with possible expanded hours during the least term nesting season if circumstances require monitoring or management activities beyond the normal hours of operation.

Management of the California Least Tern

The VA will continue the management of the least tern colony upon formal transfer of the property. Ongoing least tern management/predator management programs would be funded by the VA operating budget for property maintenance and management.

Other VA Uses

As part of their role to respond to regional emergency management, VHA intends to utilize the VA facility at Alameda Point as a staging area during emergencies and natural disasters such as earthquakes and for storage of emergency supplies. The facility may also be used as a location for emergency training exercises during least term non-breeding season (August 16–March 31). The five bunkers located within Installation Restoration Site 2 (IR-2) and the cemetery area, north and east of IR-2, are proposed to be removed. Two of the existing bunkers previously used for the storage of ordnance by the Navy will be repurposed by the VHA for the storage of emergency supplies. These bunkers lie on the southern border of the VA Project Action Area, adjacent to the waters of San Francisco Bay, and outside of the VA Development Area. The bunkers have been present on site for decades and will not be significantly modified as part of the proposed VA action. The bunkers will be accessed using the existing paved runway surface, and provisioned and maintained outside of the least term breeding season only.

Timing and Duration

It is currently estimated that construction of the OPC building and CMO would take approximately 18 months to complete, including the time for initial site preparation. The build-out of the NCA Cemetery will be phased based on actual demand. It is currently estimated that there will be a demand for approximately 2,500 niches per year. Phasing is typically based on 10-year increments. Therefore, it is envisioned that approximately five acres of the cemetery would be developed every ten years. The required acreage would vary according to layout and design. Demographic forecasts also suggest that demand will decrease in the years ahead as the veteran population declines. At NAS Alameda, it is expected that the first phase of construction would involve approximately 27 acres that would accommodate approximately 25,000 niches and support facilities, including two committal service shelters, internal roads, assembly area and landscaping. The remainder of the site would remain undeveloped until there is a need for additional columbarium niches. The first phase of cemetery construction is estimated to take 6 to

18 working months to complete.

Access, Staging, Construction Equipment and Techniques

Access to the VA development proposed within the action area will be from local streets to the east, including existing streets at NAS Alameda. All construction staging areas will be located within the VA Development Area. Contractor staging for construction and the offsite utility corridor will be in the cemetery area.

The area where buildings are proposed will be stripped of vegetation, organic soils, and any debris. In areas covered by runway concrete within the VA Development Area, the pavement and any base rock may be removed and reused as base materials. Construction equipment that will be used may include hydraulic breakers, scarifiers, dozers, dump trucks, front end loaders, graders, pile drivers, compactors, and rollers. It is anticipated that 6 months of mass grading will be necessary for initial project construction, including installation of infrastructure and roadways. A second construction season will be needed for completion of the buildings and the installation of landscaping. Grading will employ the use of scrapers, dump trucks, and bulldozers. Dewatering and a geotextile layer may be required for base stability where excavations extend to near the shallow water table.

Based on preliminary design recommendations, it is anticipated that the OPC building will have a concrete pile foundation. Structural concrete mats could be a viable alternative to driven piles. Conventional shallow spread footings could be considered for very lightly loaded structures founded on soils that are improved in situ. Construction of the columbarium is anticipated to have concrete pile foundations and will require the use of concrete mixer trucks, pavers, pick-up trucks, and mobile power generators.

Project Action for the City Property

The Navy will dispose of the remaining surplus Federal property at NAS Alameda, (i.e., the property west of Main Street), which is located within the boundaries of the City of Alameda, California. The Navy already transferred East Housing and the former Fleet Industrial Supply Center to the City, which were subject to the 1999 BO. No further consultation or Navy action is required for property east of Main Street. The surplus Federal property at NAS Alameda would be reused and redeveloped in accordance with the 1996 Reuse Plan prepared by the City. Five planning areas within the surplus Navy property that will be conveyed to the City are subject to this section 7 consultation: (1) Civic Core; (2) Main Street Neighborhoods; (3) Inner Harbor; (4) Marina; and (5) NWT. The NWT lies immediately north of the proposed VA Undeveloped Area and includes approximately 74 acres of the VA Development Area. The Civic Core and Marina areas lie immediately to the east. The current proposal for the NWT includes a 147-acre regional park and 25 acres of the proposed sports complex.

Regional Park

The Regional Park could include the following: (1) 20 acres of seasonal wetlands; (2) nonirrigated perennial and annual grasses over 45 percent of the park area; (3) irrigated "rough mowed" turf meadows covering 30 percent of the park area (no tree species capable of growing to greater than 20 feet in height shall be planted in the Regional Park, and the density of trees and shrubs in this area shall not exceed one tree or shrub per 10,000 square feet); (4) group and family picnic areas comprised of picnic tables, barbeques, and drinking fountains, located near meadow areas and pathways, covering approximately 50,000 square feet; (5) self-closing trash receptacles will be dispersed throughout the Regional Park and will be emptied regularly to prevent availability of garbage to nuisance/predatory wildlife species; (6) observation areas with interpretive signage, benches and restrooms; (7) a Veteran's memorial plaza with a footprint of approximately 25,000 square feet that will include structures no higher than 25 feet; (8) 3.0 miles of asphalt-paved Bay Trail, 12 feet wide; (9) 2.8 miles of asphalt-paved internal trails, 10 feet wide; (10) multiple asphalt-paved parking areas for approximately 800 cars, covering 5 acres; (11) 8,000 linear feet of raised and re-armored bayside levees; and (12) placement of approximately 400,000 cubic yards of fill material to create topography, that will not exceed 12 feet in height.

Sports Complex

The portion of the Sports Complex in the NWT would support eight soccer fields and associated facilities and parking areas. The Sports Complex fields shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure that lighting for the VA and City projects cumulatively will not exceed the light levels established in avoidance and minimization measure 7a. A maximum of 55 light poles, not to exceed 20 feet in height, would be installed and contain anti-perching devices within the soccer fields and parking areas. No artificial features greater than 20 feet in height shall be constructed. The cumulative square footage of buildings associated with the Sports Complex shall not exceed 7,500 square feet or be greater than 20 feet in height. Self-closing trash receptacles will be dispersed throughout the sports complex and will be emptied regularly to prevent availability of garbage to nuisance/predatory wildlife species.

Civic Core Area

The Civic Core Area would be developed as a mixed use development area with uses ranging from the reuse and redevelopment of existing facilities, replacement of existing buildings, and construction of new buildings for reuse and redevelopment. Development of the Civic Core Area would emphasize retention and reuse of the existing buildings and land use development patterns in this area. Building reuse would potentially include international business and commerce, institutional and educational facilities, research and development facilities, and supporting commercial uses. Civic uses would potentially include public recreation facilities, a museum, a library, a teen activity center, a civic auditorium, civic office space, a place of worship, and meeting places. A ferry terminal would be developed along the Oakland Inner Harbor on the northern boundary of the Civic Core area. The northern portion of the Civic Core Area may be

developed as a university campus. Building heights throughout the Civic Core area would not exceed current heights. The Civic Core Area would support softball fields, in addition to other indoor and outdoor facilities, and would have lighting for nighttime play. Light poles in the softball fields would not exceed 40 feet in height and would be equipped with anti-perching devices. No residential development will occur within any of the colored Building Development Zones, as defined in Figure 1.

Marina Area

The Marina Area would be developed as a commercial marina serving private and public boating, boating clubs, ferry service, deep-draft yacht facilities, boat repair, waterfront dry storage for boats, and sailing training facilities. Residential housing, retail, hotel/conference center, a civic plaza potentially with office space, a cultural arts center and theater, and recreation uses in the marina waterfront open space would be constructed in the Marina Area. No residential development will occur within any of the colored Building Development Zones, as defined in Figure 1.

Inner Harbor

The Inner Harbor would be redeveloped primarily for light industrial and research and development use with the potential for some residential uses. Supporting uses such as office space, restaurants, and service industries for local businesses would also be developed. A park would also be constructed in the Inner Harbor.

Main Street Neighborhood

The existing residential housing in the Main Street Neighborhood would be redeveloped primarily for residential housing use, including a combination of single-family and multi-family units. A substantial number of acres would be developed for a number of public facilities, including new schools, neighborhood parks or open space, and commercial/retail centers.

Proposed Avoidance and Minimization Measures

Prior to Transfer of Excess Property and Conveyance of Surplus Property

- Until the excess property is transferred to the VA, the Navy shall continue managing the least tern colony and shall continue predator management in a manner consistent with current management practices.
- 2. Prior to conveyance of surplus property to the City, the Navy shall require the City to comply with the avoidance and minimization measures listed in this biological opinion during interim reuse through enforcement mechanisms provided by the Lease in Furtherance of Conveyance dated June 6, 2000, and subsequent Amendments 1 and 2 dated November 28, 2000, and March 30, 2009, respectively. Service-approved deed restrictions, with enforceable measures requiring the transferee to comply with the

applicable avoidance and minimization measures listed in this biological opinion, shall be developed for surplus Federal properties conveyed to the City or any other non-Federal entity. The deed restrictions shall be provided to the Service by the Navy for approval prior to property conveyance to the City. The deed restrictions shall be recorded prior to or upon property conveyance to the City.

- 3. Prior to transfer of excess property to the VA, the Navy shall continue to implement actions or measures to effectively notify property owners, lessees, and the general public of the necessity for controlling unauthorized public access. Until transfer of excess property to the VA, the Navy shall retain responsibility for enforcement and maintenance actions and shall ensure signs are maintained that identify the biological importance and values of the adjacent least tern colony and the prohibitions of access and use.
- 4. The Navy shall continue to prohibit feral cat feeding stations and colonies and the feeding of any native or non-native wildlife species that are potential predators of least terns, until the excess or surplus property has been transferred to the VA, or conveyed to the City, or any other non-Federal entity.
- 5. Prior to conveyance of submerged lands (as depicted on Figure 1) by the Navy to the City, a Service-approved conservation easement, for the benefit of an entity or organization qualified to hold a conservation easement under California Civil Code Section 815.3 or other enforceable property interest approved by the Service, will be granted or reserved by the Navy for the relevant portions of the submerged lands (as depicted on Figure 1). The conservation easement shall permit the City adequate ingress and egress for the ٠, ٠, purpose of access to and use of the City's property and shall not prohibit dredging. The conservation easement or other enforceable property interest shall specify the following prohibited uses: (1) no development (e.g., marinas or piers) will be allowed within the easement area, and (2) the City will not issue permits for any coordinated water-based activities, such as regattas or other activities that may concentrate boating activity within the easement area during the least tern breeding season (April 1 through August 15). The Service-approved conservation easement or other enforceable property interest shall be subject to review and approval by the Service prior to property conveyance and recorded within six months of acceptance of the relevant portions of the submerged lands (as depicted on Figure 1) at NAS Alameda from the Navy.

Lands Conveyed by the Navy to the City

- 6. The following shall apply to all surplus Federal lands conveyed by the Navy to the City:
 - a. The City will assume responsibility for notification of deed restrictions to existing and future tenants and property owners.
 - b. The City shall assume responsibility for developing and implementing a predator management plan for surplus Federal lands to be conveyed to the City or any other non-Federal entities by the Navy. The lands to be managed for predators shall be all lands west of Main Street, including the NWT, Civic Core Area, Marina Area,

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Inner Harbor, and portions of the Main Street Neighborhood, as depicted on Figure 1. The plan shall integrate and coordinate predator management methods and activities within the property to be transferred to the VA by the Navy with those methods and activities employed in other portions of NAS Alameda. The plan shall ensure that an average of 20 hours per week of predator management is provided from March 25 through August 7 each year. The predator management activities provided in the plan shall include, but not be limited to: (1) management and removal of feral cats or other predators such as skunks, raccoons, and foxes, and (2) control of avian predators such as gulls, corvids, and raptors. The plan shall provide an adequate funding mechanism to ensure that an average of 20 hours per week of predator management activities are conducted from March 25 through August 7, of each year; such predator management will continue in perpetuity. The plan and funding mechanism shall be subject to review and approval by the Service prior to property transfer and implemented by the City upon acceptance of surplus Federal lands at NAS Alameda from the Navy.

- In addition to the predator management activities described above, the following shall be conducted by the City upon acceptance of the surplus property from the Navy: (1) within 600 feet of the VA Federal transfer parcel, the tops of all buildings shall be inspected for avian predator nests once each week by U.S. Department of Agriculture, Wildlife Services (Wildlife Services) or other qualified Service-approved predator management personnel during the period from March 25 through August 7; and (2) the Regional Park of the NWT shall be monitored for corvids and other avian and mammalian predators by Wildlife Services or other qualified Service-approved predator management personnel during the period from March 25 through August 7. Any avian predator nests on the buildings or in the Regional Park shall be monitored to determine if nest removal is required to reduce predation pressure at the least tern colony site. If Wildlife Service personnel are not contracted for these activities, then the qualifications of other proposed personnel shall be reviewed and be subject to final approval by the Service. A funding mechanism for the specific activities described in this paragraph, in addition to the funding provided for the 20 hours of predator management plan activities required in the paragraph above, shall be established and maintained in perpetuity.
- d. Upon Navy conveyance of property to the City, the City shall prohibit, in perpetuity, feral cat feeding stations and feral cat colonies on all lands conveyed from the Navy to the City. In addition, the City will notify property owners through educational signage and tenant notification that feral cat feeding stations and colonies and the feeding of any native and non-native wildlife species that are potential predators of least terms is prohibited and a violation of the deed restrictions. Management and removal of feral cats will be included as part of the City's predator management plan.

- 7. The following avoidance and minimization measures shall apply to all surplus Federal property conveyed to the City, or other non-Federal entity in the NWT and Civic Core and Marina areas, to limit the effects of additional lighting on least terms:
 - a. Lighting associated with building security and other lighting needs or requirements throughout the NWT, Civic Core Area, and Marina Area shall be allowed as long as the cumulative increase in ambient nighttime light levels, from VA and City sources as defined in 7b, does not exceed 10 percent above the ambient nighttime light levels in these areas, prior to any VA or City development on transferred/conveyed lands, as defined in Silverman and Light (2011) or another Service-approved lighting study conducted prior to conveyance and between April 1 to August 15, with full development of the NWT, Civic Core Area, and Marina Area, including VA development.
 - b. The VA conducted a study (Silverman and Light 2011) to determine the existing ambient nighttime light levels at several locations around the least tern colony site. In April of each year following the installation of any light sources that may increase the footcandle nighttime light level at the least tern colony, the City, in coordination with the VA, shall ensure the footcandle nighttime light levels are appropriately sampled and have not exceeded 10 percent of the pre-conveyance levels established by the VA in Silverman and Light (2011) or another Service-approved lighting study. In the event of an increase above 10 percent from the VA and City sources, corrective action will be taken within 2 months to reduce nighttime light levels to less than 10 percent of the pre-conveyance ambient nighttime light level. The results of the April nighttime light level sampling will be included as part of the annual least tern monitoring and management report.
 - c. As a condition of approval for any project, the City shall perform design review to ensure the cumulative increase in ambient nighttime light levels within and near the least tern colony from VA and City sources does not exceed 10 percent of the pre-conveyance levels from April 1 to August 15, as described in avoidance and minimization measures 7a and 7b. The City shall develop lighting requirements and provide them to all project applicants.
- 8. The following avoidance and minimization measures apply specifically to the NWT:
 - a. As detailed stormwater management and monitoring plans for the NWT are developed by the City, they shall be developed in coordination with the Service and implemented to protect open water foraging areas for least terms. The plans shall be reviewed and approved by the Service contemporaneously with the City environmental review process and prior to development of the project in this area.
 - b. Prior to the construction of the Regional Park, a Service-approved park management agency will be chosen by the City.

- No artificial features greater than 20 feet in height shall be constructed, with the c. exception of 25 feet in the Veteran's memorial plaza area. The cumulative square footage of buildings associated with the Regional Park in the NWT shall not exceed 4,500. No tree species capable of growing to greater than 20 feet in height shall be planted in the Regional Park. The density of trees and shrubs in this area shall not exceed one (1) tree or shrub per 10,000 square feet. The City shall prepare a palette of shrub and herbaceous vegetation species proposed for planting throughout the regional park area. The palette shall be reviewed and approved by the Service prior to the planting of any vegetation in this area. From April 1 through August 15, nighttime lighting in the Regional Park shall be limited to the minimum necessary for public safety. The final Regional Park design/configuration, herbicide/pesticide drift control plan, and landscaping and management plans shall be developed in coordination with the Service. The plans shall be reviewed and approved by the Service prior to any new development in this area.
- d. The Sports Complex fields shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure that lighting for VA and City projects cumulatively will not exceed the light levels established in avoidance and minimization measure 7a.
- e. No trees or landscape turf shall be planted within 100 feet from the southern boundary of the Sports Complex, other than the turf required for the Sports Complex field playing surfaces. Shrubs will be managed to remain 4 feet in height within 300 feet of the southern boundary of the Sports Complex. No tree species capable of growing to greater than 20 feet in height shall be planted within the Sports Complex area. Tree and shrub density shall not exceed one tree or shrub per 550 square feet. Trees species shall be light-limbed. No palm trees shall be allowed in this area. The City shall prepare a palette of shrub species proposed for planting in this area. The planting palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area.
- f. No artificial features greater than 20 feet in height shall be constructed. The cumulative square footage of buildings associated with the Sports Complex shall not exceed 7,500 square feet or be greater than 20 feet in height. All buildings associated with the Sports Complex area shall be located greater than 200 feet from the southern boundary of the east-west runway. The City shall ensure that all artificial structures and buildings associated with the Sports Complex are designed to prohibit avian perching or that all artificial structures are fitted with anti-perching devices that will be maintained in perpetuity.
- 9. The following avoidance and minimization measures reference Figure 1 and apply to the Civic Core Area:
 - a. Zone I (Pink): No new buildings, light posts, vegetation greater than 4 feet in height, landscape turf, or other structures greater than 4 feet in height shall be

- constructed in this area without prior approval from the Service. The Service shall review all proposed plans to ensure compliance with this biological opinion.
- b. Zones 2 (Red) and 3 (Yellow): Any new buildings constructed or extensions of existing buildings shall not exceed the height of the existing buildings. No palm trees shall be allowed in this zone. Within line-of-sight of the existing least tern colony, landscaping shall be restricted to vegetation less than 4 feet in height. In areas outside of the line-of-sight of the existing least tern colony, no tree species capable of growing to greater than 20 feet in height shall be planted and shrubs shall be managed as to not exceed 6 feet in height. The density of trees and shrubs in this area shall not exceed 1 tree or shrub per 550 square feet. The City shall prepare a palette of tree and shrub species proposed for planting in this area. The palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area. Light posts in this area 20 feet or greater in height shall contain anti-perching devices, which will be maintained in perpetuity.
- c. Zone 4 (Purple): If Building 19 or the fire house is replaced with a new building, the new building shall not exceed 20 feet in height, not extend further west and east than the western and eastern most point of the existing building, and not exceed the existing width of the building as measured from north to south. A new building, not to exceed 20 feet in height, may be constructed just east of Building 19 or may be added on to the fire house provided that the new building/extension is not in direct line-of-sight of any portion of the existing least tern colony. New buildings may have an additional 5 feet of height to accommodate heating/conditioning/ventilation units as long as these units are not within the line of sight of the least tern colony or the units are placed as far back and away from the side of the building facing the tern colony as possible and avian predator perch deterrents are installed and maintained on these units in perpetuity.
- d. All sporting fields within the Civic Core Area shall not be lighted for nighttime play from April 1 through August 15, unless proposed lighting in these areas can be designed to ensure the cumulative increase in ambient nighttime light levels within and near the least tern colony, from VA and City sources, do not exceed 10 percent of the pre-conveyance levels from April 1 to August 15, as described in 7a. The City shall ensure that all anti-perching devices on light posts proposed for the sporting fields are maintained in perpetuity.
- 10. The following avoidance and minimization measures reference Figure 1 and apply to the Marina Area and submerged lands conveyed to the City:
 - a. Zone 1 (Pink): No new buildings, light posts, vegetation greater than 4 feet in height, landscape turf, or other structures greater than 4 feet in height shall be constructed. The Service shall review all proposed plans to ensure compliance with this biological opinion.

- Zone 5 (Green): Building 25 may be reconstructed within the footprint of this Ъ. zone. Any new building constructed in this zone cannot exceed the height of the existing building (55 feet). Landscaping shall be restricted to vegetation less than 4 feet in height (no palm trees) within the current line-of-sight portion of the northeast corner of this zone. Within line-of-sight of the existing least tern colony, landscaping shall be restricted to vegetation less than 4 feet in height. In areas outside of the line-of-sight of the existing least tern colony, no tree species capable of growing to greater than 20 feet in height shall be planted and shrubs shall be managed as to not exceed 6 feet in height. The density of trees and shrubs in this area shall not exceed 1 tree or shrub per 550 square feet. The City shall prepare a palette of tree and shrub species proposed for planting in this area. The palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area. Newly constructed buildings and any artificial - structures 20 feet or greater in height shall contain anti-perching devices which will be maintained in perpetuity.
- Zone 6 (Blue): No new buildings greater than 20 feet in height shall be C. constructed in this zone. New buildings may have an additional 5 feet of height to accommodate heating/conditioning/ventilation units as long as these units are not within the line of sight of the least tern colony or the units are placed as far back and away from the side of the building facing the tern colony as possible and ayian predator perch deterrents are installed and maintained on these units in perpetuity. No palm trees shall be allowed in this area. Within line-of-sight of the existing least tern colony landscaping shall be managed as to not exceed 4 feet in height. In areas outside of the line-of-sight of the existing least tern colony no tree species capable of growing to greater than 20 feet in height shall be planted and shrubs shall be managed as to not exceed 6 feet in height. The density of trees and shrubs in this area shall not exceed 1 tree or shrub per 550 square feet. The City shall prepare a palette of tree and shrub species proposed for planting in this area. The palette shall be reviewed and approved by the Service prior to the planting of any trees or shrubs in this area. Newly constructed buildings and any artificial structures 20 feet or greater in height shall contain anti-perching devices which will be maintained in perpetuity.
- d. As detailed stormwater management and monitoring plans for the Marina Area are developed, they shall be developed in coordination with the Service and implemented in perpetuity to protect open water foraging areas for the least tern. The plans shall be reviewed and approved by the Service contemporaneously with the City environmental review process and prior to development of the project in this area.
- e. "Watercraft Exclusion Zones" will be established and clearly demarcated on submerged lands south of the VA parcel and within 300 feet of the breakwater, as depicted in Figure 1. The only exception to this exclusion zone is the use of a gap in the breakwater by Water Emergency Transportation Authority ferries, which will restrict crossings through this gap to 6 per day (three ingress and three

egresses). The City will place floating signs/buoys along the established boundary with warnings prohibiting boaters from entering the area at anytime. The City will also require that signage and educational materials be provided in any marina that is developed within the Seaplane Lagoon to discourage boaters from entering the watercraft exclusion zone. Contracts or leases for boat owners using the Marina Area shall include notification of these restrictions. The contracts shall include conditions that provide for revocation of the contracts or leases if these restrictions are violated. The language within these contracts or leases shall be reviewed and approved by the Service prior to granting any leases or signing any contracts.

- f. A "No-wake Zone" during the least tern breeding season (April 1 to August 15) will be established and clearly demarcated on all submerged lands that are conveyed to the City south of NAS Alameda and within the basin enclosed by the breakwater, as depicted on Figure 1. The City will place floating signs/buoys identifying the no wake zone to boaters traversing this area.
- g. No dredging activities shall occur during the period from March 15 through August 15 each year to minimize open water turbidity just prior to and during the least tern breeding season. Potential adverse effects to least terns as a result of dredging during the least tern breeding season will not be analyzed in this biological opinion; therefore, dredging during the least tern breeding season will require separate section 7 consultation with the Service.

Lands Transferred by the Navy to the VA

The measures below pertain to the 624-acre Navy/VA Federal-to-Federal transfer and post-transfer VA development:

- 11. To provide for the long-term conservation of the least tern, the VA's commitment to implement land use restrictions for long-term maintenance, management and monitoring of the least terns in accordance with this biological opinion will be documented in the Federal-to-Federal property transfer documents: Department of Defense Form 1354 with an attached Memorandum of Understanding. To ensure the 511.3 acre VA Undeveloped Area, as defined in Figure 1, will remain undeveloped and will be managed for the long-term persistence and sustainability of the least tern colony, as defined in the project description of this biological opinion, the VA shall not convey any portion of the VA Undeveloped Area to any Federal agency or designate any portion of the VA Undeveloped Area as surplus Federal property; unless, informal section 7 consultation with the Service has been completed.
- 12. In the event the property is later determined to be surplus to the needs of any Federal agency, the VA will coordinate with the Service and U.S. General Service Administration (GSA) on the method of property disposition prior to GSA disposal action and seek to obtain GSA approval for disposal with terms and conditions that include requirements for

- appropriate implementation of avoidance and minimization measures for conservation of the least term by any subsequent owner.
- 13. Least term management activities will continue at current levels or greater levels, as determined by the annual monitoring report, and will include: (1) maintenance of the fence surrounding the least term colony; (2) maintenance of the fence surrounding the perimeter of the VA Undeveloped Area, to restrict public access; (3) placement of nesting substrate; (4) vegetation control; (5) predator control; (6) regular breeding season monitoring; and, (7) Service-approved adaptive management. Public access within the VA Undeveloped Area may include supervised least term colony maintenance efforts by volunteer groups during the non-breeding season, as well as the continuation of volunteer least term colony monitoring during the breeding season, both of which have occurred under the close supervision of Service staff for several years. Access to the site is also authorized to Federal, state, and local regulators, and VA environmental contractors in the performance of their official duties.
- 14. Activities associated with the VA's role in regional disaster preparedness and emergency response (training exercises, inventory and re-stocking of emergency supplies stored in existing bunkers, etc.) would occur during the non-breeding season (August 16 to March 31). In the event access to emergency supplies is required during the least tern breeding season (April 1 to August 15), the VA will access the emergency supplies via prepositioned vehicles, by boat, or by helicopters that would maintain a 0.75 mile "no fly zone" from the least tern colony. Repair of underground utilities may also occur in the VA Undeveloped Area when conducted outside of the least tern breeding season.
- 15. Upon acceptance of Federal excess property, the VA shall be responsible for continuing to manage the least tern colony. The VA may consider coordinating with the Service to continue this work or hire another qualified Service-approved contractor. Least tern colony management activities shall include, but are not limited to the following:
 - a. Vegetation control and weed removal within the VA Undeveloped Area.
 - b. Maintenance of the fence surrounding the colony.
 - c. Maintenance of the colony and preparation prior to the breeding season by placement of coarse sand, gravel, seashells, and other measures to enhance nesting habitat quality.
 - d. Breeding season monitoring of the least tern colony.
 - e. Management of feral cats and other terrestrial predators of least terns.
 - f. Control of avian predators (e.g., gulls, corvids, and raptors)
- 16. The VA shall prepare a long-term monitoring and management plan for the least tern colony at NAS Alameda. The plan shall be provided to the Service for approval prior to

the transfer of property from the Navy to the VA. The plan shall include the following elements:

- a. Outline the species-specific monitoring and management requirements.
- b. A program that provides actions or measures to ensure continued controlled access and signage for the least tern colony;
- c. Adaptive management to ensure least tern colony breeding success does not drop below the level defined in the incidental take statement of this biological opinion.
- d. A requirement for an annual report summarizing the least tern colony monitoring and management activities conducted during the year. The reports shall be completed and submitted to the Service annually by January 31, of each year, or an alternative annual schedule if mutually agreed on by the Service and VA. The annual report shall include the following elements:
 - i. Activities, frequency and duration, timing, location, survey methods, notifications, reporting (e.g., weekly summary reports during construction activities), data sheets, etc.
 - ii. Disposition of sick, injured, or dead specimens (listed species).
 - Monitoring results and recommendations (such as the discontinuance of certain monitoring activities if no effects are being observed, continuance of monitoring activities if potential effects observed, modifications to existing measures or identification of new measures to prevent additional take).
- e. The VA shall periodically update, in coordination with the Service, the long-term monitoring and management plan for the least tern in order to provide for the adaptive management of the colony. Updates to the long-term management plan shall be subject to Service-approval.
- f. The VA will assume responsibility for notification of restrictions, enforcement, and maintenance of the management plan upon transfer of the property from the Navy to the VA. The VA shall notify adjoining property owners, lessees, and the public of the pertinent elements of the plan. The plan will be published and posted for public view at the CMO as well as other public areas.
- g. The VA shall prepare a predator management plan to maintain protection from predator threats at current or lesser intensity. The predator management plan shall be provided to the Service for approval prior to the transfer of property from the Navy to the VA. The plan shall fully integrate and coordinate predator management methods and activities within the property to be transferred by the Navy to the VA with those methods and activities employed in other portions of NAS Alameda. The VA shall periodically update the predator management plan

in order to provide for the adaptive management of the colony. The VA shall coordinate with the Service regarding any updates to the predator management plan. Updates to the predator management plan shall be subject to Service-approval.

- 17. The VA may continue to use Wildlife Services for predator management, or may hire another qualified contractor. The qualifications of the predator management contractor will be subject to Service-approval. The VA shall contact the Service and Wildlife Services to determine current predator management activities and ensure that they are maintained. If predation pressure to least terms increases, the VA shall increase the level of predator management activities to compensate. Annual predator management reports shall be prepared by the implementing agent (e.g., Wildlife Services or other Service-approved entity) that describe the manner in which the predator management activities are being implemented. The VA has the option to consolidate annual least tern monitoring and management reports and predator management reports. The reports shall be completed and submitted to the Service annually by January 31 of each year, or an alternative annual schedule if mutually agreed on by the Service and VA.
- 18. From April 1 to August 15, the VA and Service-approved least tern management entity shall send weekly electronic status reports to the Service describing the current number of adult least tern pairs, nests, chicks, fledglings, least tern mortalities by life-stage, predation pressures, and predator management activities.
- 19. The VA shall conduct an education program for all newly-hired employees of the VA Alameda Point facility. The education program shall include, at a minimum, the life history of the least tern, reasons for its decline, and the measures in place to minimize effects to the species, including but not limited to prohibitions against feeding wildlife, establishing cat colonies, or releasing cats on site. The VA will post notices of the importance of predator control, in conspicuous places used by employees and the public, prohibitions against feeding wildlife, establishing feral cat colonies, or releasing feral cats on site, and post warnings of impending predator management activities.
- 20. The VA conducted studies to determine the existing ambient foot-lambert and footcandle nighttime light levels at several locations around the least tern colony site. In April of each year following the installation of any light sources that may increase the footcandle nighttime light level at the least tern colony, the VA, in coordination with the City, shall ensure the footcandle nighttime light levels are appropriately sampled and have not exceeded 10 percent of the pre-conveyance levels established by the VA. In the event of an increase above 10 percent from VA and City sources, corrective action will be taken within 2 months to reduce nighttime light levels to less than 10 percent of the pre-conveyance ambient nighttime light level. The results of the April nighttime light level sampling will be included as part of the annual least tern monitoring and management report.
- 21. Lighting, including that for roads, building security, and public safety shall be designed to minimize nuisance nighttime light levels. As part of the lighting plan for all facilities and

activities within the action area, the VA shall undertake appropriate measures (i.e., night lighting design) to ensure the cumulative increase in ambient nighttime light levels within and near the least tern colony do not exceed 10 percent of the pre-conveyance levels from April 1 to August 15, as described in avoidance and minimization measure 20, including City property. Measures to achieve this performance standard include, but are not limited to:

- a. All exterior lights shall be directed away and/or shielded from the least tern colony.
- b. Lights shall be directed toward their areas of intended illumination and shielded to prevent stray light from escaping either upward or outward.
- c. Street light poles shall include anti-perching devices.
- d. All windows facing the least tern colony with a direct line of sight shall be tinted to reduce the spillage of interior light. Windows shall also be non-reflective in order to minimize bird strikes.
- 22. The VA shall develop strategies to minimize erosion and the introduction of pollutants into stormwater runoff according to State and Regional Water Quality Control Board (RWQCB) guidelines.
 - a. The VA shall prepare a detailed Storm Water Pollution Prevention Plan for the construction of all facilities and activities within the VA Project area. An effective combination of erosion and pollutant control Best Management Practices shall be implemented during all phases of construction.
 - b. Vegetated swales (grassy ditch) and other landscaping techniques shall be used to treat stormwater runoff wherever possible.
 - c. Pollutant source controls (i.e., roofed trash enclosures) shall be implemented whenever possible.
 - d. Prior to start of construction activities, plans developed for VA facilities shall include a temporary 6-foot-high minimum barrier fence around the perimeter of the construction area to isolate the construction area from the VA Undeveloped Area. This fence shall be removed upon completion of all construction activities.
- 23. Ancillary structures (not including columbaria walls, committal shelters, NCA maintenance building, CMO, and OPC) with a height of 8 feet above finished grade or higher, such as light poles, aboveground storage tanks, flagpoles, carillon, and temporary construction fencing, shall be designed or fitted with anti-perching features or devices, such as bird spikes, post-and-wire systems, electrical bird deterrents, or other deterrence measures.

- 24. No utility poles or transmission towers, except the light poles mentioned in avoidance and minimization measure 23, shall be permitted within the VA Development Area, and electrical transmission lines shall be placed underground.
- 25. No fountains, bird baths, ponds, reflecting pools, or other permanent sources of open water shall be constructed which may attract or provide havens for potential predators of least terns. Stormwater detention basins that would temporarily store excess stormwater may be permitted on the northern portion of the VA Development Area.
- 26. Landscape planting within the VA Development Area should prioritize native shrub and herbaceous species over nonnative species, but in either case, species shall not be invasive. Landscaped areas shall predominantly consist of drought tolerant plant species and open hardscape areas. A limited amount of turf area may be provided in areas such as primary entrances and NCA assembly areas and other prominent areas.
- 27. In the portion of the VA Development Area within 2,132.5 feet of the existing 9.7-acre least tern colony, all landscaping shall be managed as to not exceed 4 feet in height. In areas more than 2,132.5 feet from and within the line of sight of the existing least tern colony, shrubs shall be maintained at a height not greater than 6 feet. In areas more than 2,132.5 feet from the existing least tern colony, tree species shall be maintained at a height not greater than 20 feet. Tree species shall be light-limbed. No palm trees shall be allowed in this area. The VA shall prepare a palette of trees that shall be reviewed and approved by the Service prior to the planting of any vegetation in this area. In all areas within the VA Development Area, tree density shall not exceed an average of 5 trees per 10,000 square feet of the actual VA developed/improved area. Future phases of development will be held to the same average density. To minimize potential effects of avian predators, all landscape trees shall be inspected regularly for nesting attempts by avian predators.
- 28. Landforms (landscape berms) within 2,132.5 feet of the least term colony shall not exceed 6 feet in height. Beyond 2,132.5 feet of the least term colony, landforms may be a maximum of 12 feet in height. On portions of berms within line of sight of the least term colony, vegetation shall not exceed 6 inches in height and non-vegetative ground surfacing such as rounded river gravel may also be used. On portions of berms and out of the line of sight of the least term colony, vegetation shall not exceed 30 inches in height nor rise above the berm.
- 29. A permanent barrier shall be constructed along the southern perimeter of the 112.4-acre VA Development Area in order to prevent trespassing into the adjacent VA Undeveloped Area. The barrier shall be a minimum of 8 feet and a maximum of 10 feet in height, and may be a combination of solid wall, vertical rail or chain link fencing as aesthetic and practical needs dictate. The barrier shall be designed to such a depth and type of material that will prevent all ground predators from burrowing under in order to gain access to the undeveloped areas. The barrier south of the cemetery entrance road shall be a minimum of 6 feet and a maximum of 10 feet in height, along the southern boundary between the CMO and the point where the boundary turns south. The construction of the barrier may

be phased in conjunction with VA Project, and shall incorporate anti-climbing measures to prevent trespassing and anti-perching measures to deter avian predators of least terns. The barrier may be architecturally treated.

- 30. The maximum heights of structures and buildings located within the 112.4-acre VA Development Area shall be limited to the following:
 - a. The OPC building shall be primarily two stories, with at least 75 percent of the roof area at or below 40 feet in height (35-foot roof plus 5-foot parapet). Penthouses for mechanical equipment shall occupy no more than 15 percent of the roof area and shall not exceed a height of 47 feet measured from the top-of-slab to the highest point of the penthouse. The roof at the lobby entrance of the OPC shall not exceed 10 percent of the total roof area and shall not exceed a height of 54 feet measured from the top-of-slab to the highest point of the lobby roof.
 - b. The CMO building shall not exceed a height of 25 feet.
 - Committal service shelters within the cemetery shall not exceed a height of 25 feet.
 - d. Niche walls within the cemetery shall not exceed a height of 10 feet.
- Heating/air conditioning/ventilation units/solar panels may be placed on top of buildings as long as these units are not within the line-of-sight from the least tern colony and/or mechanical equipment screens/parapets are put in place around them.
- 32. The emergency generator required for the OPC shall not be visible from the least tern colony. Required testing of the emergency generator shall occur monthly for a minimum of 30 minutes.
- 33. The roof of the proposed VA OPC, committal service shelters, and columbarium walls shall be of a type and design that discourages perching by avian predators of least terms. Any flat areas on the surface of the OPC building, committal service shelters or columbarium walls that has a line-of-sight to the least tern colony shall be treated with anti-perching devices, such as bird spikes, post-and-wire systems, electrical bird deterrents, or other deterrence measures. Such anti-perching devices will be inspected in March of each year to ensure they are functioning appropriately and maintained in perpetuity.
- 34. Anti-perching devices may be architecturally treated and integrated into the design of the structure.
- During the least term breeding season (April 1 to August 15), a biological monitor under contract with the VA Architect Engineer and with experience observing and documenting disturbances to least terms or similar species shall be present during all construction activities associated with VA facilities to ensure that construction activities do not adversely affect least terms using the nesting site. The biological monitor shall:

- a. Meet minimum qualifications, as already provided to the Service.
- b. Provide a construction worker education program on the least tern at the start of construction activities, whenever new workers begin, and when new contracting firms are brought in. The program shall include, but not be limited to, topics on species identification, life history, habitat requirements, and the conservation measures being implemented to avoid and minimize effects to the least tern. Handouts, illustrations, photographs, and project mapping showing areas where minimization and avoidance measures are being implemented shall be included as part of this education program, as relevant. The program will increase the awareness of the contractors and construction workers about existing Federal laws regarding listed species.
- c. Inspect the work area for proper disposal of all garbage in covered containers. If garbage is observed being left out, the monitor shall report to the contractor or VA Resident Engineer to have the situation corrected.
- d. Before the initiation of work each day within areas with suitable habitat, the biological monitor shall thoroughly inspect the work area and adjacent habitat areas to determine if least terms are present.
- e. Inspect integrity of temporary construction barrier fencing periodically as-needed throughout the work period. If repairs are needed, the monitor shall contact the VA Resident Engineer to fix the barrier fence to ensure its integrity. The biological monitor shall have the ability to make field adjustments to the location of the temporary construction barrier fencing, with approval from the Service, depending on site-specific habitat conditions. The contractor is to remove the barrier fencing upon completion of construction activities.
- f. If a least tern is observed in the construction area, the biological monitor will have the authority to and will immediately stop work and notify the VA project manager. The VA shall contact the Service for guidance on how to proceed.
- g. When necessary, telephone consultation shall occur between the VA, the Service, and the biological monitor(s) to determine the cause and to identify measures to prevent additional take. The biological monitor and VA Resident Engineer shall direct the contractor on how to proceed accordingly.
- h. The biological monitor shall maintain a log that shall be included in the long-term monitoring and management plan's annual reports to the Service, as required in avoidance and minimization measure 16d above.
- 36. The VA's biological monitor shall designate an on-site environmental inspector during the non-breeding season for least terms (August 16 to March 31). The environmental inspector will be present on-site regularly throughout the non-breeding season. If

necessary, multiple environmental inspectors may be designated to ensure coverage throughout the non-breeding season. The environmental inspector(s) shall:

- a. Participate in training provided by the biological monitor. Training shall cover identification of least terns, relevant predators, and issues related to the conservation of least terns, etc.
- b. Inspect the work area daily for proper disposal of all garbage in covered containers. If garbage is observed being left out, the environmental inspector shall report to the VA Resident Engineer to have the situation corrected.
- c. Inspect integrity of barrier fencing periodically throughout the work period. If repairs are needed, the inspector shall contact the VA Resident Engineer to fix the barrier fence to ensure its integrity.
- d. Immediately contact the biological monitor if any listed species is observed in the construction area.
- 37. All construction vehicles and equipment for VA construction activities shall use designated site access points and remain on designated construction routes only. During the least tern breeding season (April 1 to August 15), access routes for VA construction vehicles and equipment shall be located outside the VA Undeveloped Area.
- 38. No pets shall be permitted on-site during construction.
- 39. Stockpiling of materials that may provide additional shelter for potential least term predators at the construction site will be kept to a minimum and inspected on a regular basis by the biological monitor.
- 40. During the least term breeding season (April 1 to August 15), no materials or equipment shall be brought on-site during evening or nighttime hours (dusk to dawn).
- 41. Pile driving and pavement demolition activities requiring the use of impact tools (i.e., hydraulic breakers, jack hammers, scarifiers, and compactors) for VA construction activities are prohibited during the least tern breeding season (April 1 to August 15) because these activities and equipment have the potential to increase the ambient noise level in and around the least tern colony on the site. The use of other types of construction equipment that would not increase the ambient noise level at the site, as measured at the north end of the fenced least tern colony, are permitted during the least tern breeding season. The existing daytime (7 a.m. to 7 p.m.) ambient noise level at the least tern colony ranges from 50 to 55 decibels, based on hourly noise measurements recorded at the site in March 2009.
- 42. The tops of buildings under construction, including on-site construction trailers, shall be inspected for avian predator nests once each week during the period from April 1 to August 15. If nests are found, they shall be monitored to determine if nest removal is required to reduce predation pressure on the least tern colony. All removal actions shall

be in accordance with the Migratory Bird Treaty Act. Inspections shall be conducted either by a biologist that meets the minimum qualifications as already provided to the Service, by Wildlife Services, or other qualified personnel contracted for predator management.

Measures that Apply to the Entire VA Development Area

- 43. The VA shall prohibit feeding stations or colonies for feral cats and any native and nonnative wildlife species that are potential predators of least terms on its property.
- 44. Trained service animals shall be authorized, no pets shall be allowed.
- 45. All vents and ducts leading to the outside of buildings shall be screened and shall be maintained to prevent use by avian predators. Screened vents shall be inspected at least once a month from April 1 to August 15.
- 46. All landscape trees, the tops of all buildings, and all anti-perching devices in place throughout the VA Development Area shall be inspected for avian predator nests once each week during the period from April 1 to August 15. If nests are found, they shall be monitored to determine if nest removal is required to reduce predation pressure on the least tern colony. All removal actions shall be in accordance with the Migratory Bird Treaty Act. Inspections shall be conducted either by a biologist that meets the minimum qualifications already provided to the Service or by Wildlife Services or other qualified personnel contracted for predator management.
- 47. If avian predators defeat anti-perching devices that are maintained in good order, then these devices shall be reevaluated and either modified or replaced as necessary to prevent avian predators from perching within the VA Development Area.
- 48. The barrier along the southern perimeter of the VA Development Area and the fence on the eastern perimeter of the action area shall be inspected regularly and repairs made as soon as possible.
- 49. The VA shall conduct yearly vegetation control within the VA Undeveloped Area to discourage predators, provide least term roosting habitat, and maintain unobstructed views needed for predator detection. Vegetation control options may include the application of herbicides, mechanical and hand removal, and/or the sealing of cracks in the deteriorating runway surface.
- 50. All green waste, recycling, and non-recyclable refuse shall be stored in secure, covered containers, and shall be emptied on a regular basis or as often as needed to avoid any overflow. Dumpsters and other large refuse bins shall have lids and be placed in roofed enclosures.

Additional Measure Applicable to NCA Cemetery

- 51. Military honors salutes shall be conducted at committal service shelters or the designated assembly area only, and shall be conducted in a manner that directs firing away from the least tern colony. The salutes shall be performed with rifles or other small arms only. No artillery or explosives salutes shall be permitted.
- 52. Based on ambient noise levels measured at the project site, the volume of the carillon output would be limited to ensure that the proposed project does not increase ambient noise levels at the least tern colony by more than 10 percent. Prior to the start of the least tern breeding season (April 1), the volume control of the carillon shall be checked and noise measurements shall be taken at the north end of the fenced least tern colony to ensure that sound output from the carillon does not increase the ambient noise level at the least tern colony by more than 10 percent. The existing daytime (7 a.m. to 7 p.m.) ambient noise level at the least tern colony ranges from 50 to 55 decibels, based on hourly noise measurements recorded at the site in March 2009. Ambient noise level monitoring results will be included as part of the annual least tern monitoring and management report.
- During the least tern breeding season (April 1 to August 15), memorial events, such as those held on Memorial Day, shall be conducted at the designated assembly area or committal service shelters. Such events shall be organized, staged and conducted in a manner that directs noise away from the least tern colony. The use of amplifiers or public address systems shall be permitted only to the extent that they do not increase the ambient noise level at the site, as measured at the north end of the fenced least tern colony. Based on ambient noise levels measured at the project site, the volume of the public address output would be limited to ensure that the proposed project does not increase ambient noise levels at the least tern colony by more than 10 percent. A biological monitor with experience observing and documenting disturbance to least terns or similar species shall be present during special events held during the least tern breeding season (April 1 to August 15), to ensure that events do not adversely affect least terns using the nesting site. The biological monitor shall maintain a monitoring log during the special event that shall be included in annual reports to the Service, as required in avoidance and minimization measure 16d above.

Lands Transferred by the Navy to the VA and Lands Conveyed by the Navy to the City

- 54. The City or VA will not authorize or commission any aircraft to fly within 0.75 mile of the least tern colony, at any altitude, between April 1 and August 15.
- 55. Fireworks displays will not be authorized from April 1 to August 15 within any area conveyed by the Navy to the City or transferred to the VA.
- 56. The portion of the Bay Trail that surrounds the western, southern, and eastern sides of the VA parcel will be closed from April 1 to August 15. Public access will be restricted by a secure fence, at least 8 feet in height. Signage shall be placed at Bay Trail entrances

describing the purpose of the annual trail closure. Enforcement of the Bay Trail annual closure restrictions and access to the undeveloped area will be conducted by EBRPD or another Service-approved entity.

Analytical Framework for the Jeopardy Analysis

In accordance with policy and regulation, the jeopardy analysis in this biological opinion relies on three components: (1) the Status of the Species, which evaluates the species' range-wide condition, the factors responsible for that condition, and the survival and recovery needs; (2) the Environmental Baseline, which evaluates the condition of the species in the action area, the factors responsible for that condition, and the relationship of the action area to the survival and recovery of the listed species; (3) the Effects of the Action, which determines the direct and indirect effects of the proposed Federal action and the effects of any interrelated or interdependent activities on listed species; and (4) Cumulative Effects, which evaluates the effects of future, non-Federal activities in the action area on listed species.

In accordance with policy and regulation, the jeopardy determination is made by evaluating the effects of the proposed Federal action in the context of the least term's current status, taking into account any cumulative effects, to determine if implementation of the proposed action is likely to cause an appreciable reduction in the likelihood of both the survival and recovery of this listed species in the wild.

The jeopardy analysis in this biological opinion places an emphasis on consideration of the range-wide survival and recovery needs of the listed species, and the role of the action area in the survival and recovery of the listed species as the context for evaluating the significance of the effects of the proposed Federal action, taken together with cumulative effects, for purposes of making the jeopardy determination.

Action Area

The action area is defined in 50 CFR § 402.02, as "all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action." For the purposes of the effects assessment of this biological opinion, the action area includes all lands west of Main and Hancock streets in the City of Alameda and all waters within 0.5 mile of the aforementioned lands and Breakwater Island.

Status of the Species

California Least Tern

Refer to the California least tern (<u>Sternula antillarum browni</u>) 5-Year Review: Summary and Evaluation (Service 2006) for the current Status of the Species.

Environmental Baseline

The action area was historically a combination of submerged, tidal, and dry lands. The first documented filling of the tidal and submerged lands began sometime in the 1850s. By the 1940s, most of the submerged and tidal lands, what later became NAS Alameda, had been filled, primarily with dredge materials from harbors throughout the East Bay. The Navy began constructing NAS Alameda in 1938. Naval Air Station Alameda included an airport with seven aircraft maintenance hangars, one of the largest deepwater naval ports in California, one of the two largest complexes of aircraft maintenance buildings on the West Coast, a seaplane lagoon, warehouse space, administrative offices, military residences, community support facilities, and open space. Until NAS Alameda was closed in 1997, the Navy had managed the action area as an active airfield with support facilities, and the open waters as secure transit areas for the passage of ships and other watercraft. Prior to base closure, all land and open water areas were closed to the public for military security purposes.

Least terns have nested between two of the runways at NAS Alameda since at least 1976. In 1981, the Navy built an electric fence around the 6-acre least tern colony and enhanced the nesting substrate within the fenced area with gravel, soil, sand, and oyster shells. The fence around the colony was later replaced and enhanced to prevent least tern chicks from wandering onto the active runways. As part of managing the active runways, the Navy repaired the runways, which resulted in limited vegetation surrounding the least tern colony. Since 1979, the Navy has conducted management activities for the benefit of the least tern, including site preparation, nest monitoring, and vegetation management. In the 1980s, the Navy began a predator control program. In 1997, NAS Alameda was closed, a fence was installed along the eastern boundary of the Proposed Refuge to restrict public access to the area, and the Navy began the property conversion process. In 2004, the colony site was expanded to 9.7 acres, and a new non-electric fence was installed and substrate enhancements were implemented. At this time, the Navy and the Service manage the least tern colony through the provisions outlined in the 1999 BO.

The least tern colony at NAS Alameda is the largest and most stable breeding colony in the San Francisco Bay Area and is considered the source population for the region. Because this colony consistently produces large numbers of fledglings each year, it is considered to be one of the most important source populations in California, serving to balance out losses at many sink locations throughout the state (Caffrey 2005). From 1977 to 2010, the number of breeding pairs at NAS Alameda has steadily increased from 10 to 302, respectively, with an all-time high of 424 pairs in 2005. Since 2005, the number of breeding pairs at NAS Alameda has declined, but now appears stable or increasing. Although the number of breeding pairs has recently declined, the timing and size of the decline directly correlates with the establishment of colonies at Hayward Regional Shoreline (53 pairs in 2010), Napa-Sonoma Marshes Wildlife Area (47 pairs in 2010), and Montezuma Wetlands (23 pairs in 2010), the only other active breeding colonies in the San Francisco Bay Area in 2010 (Marschalek 2011). From 2001 to 2010, the fledgling to pair ratio at NAS Alameda averaged 0.80, lower than the 1.00 fledgling to pair ratio recommended for recovery (Service 1985). However, a 0.80 fledgling to pair ratio is greater than the 0.70 fledgling to pair ratio determined by Francher (1992) to be the ratio required to maintain a stable least tern

breeding colony. According to Caffrey (1995), the least term breeding site at NAS Alameda has played a significant role in increasing the number of least terms throughout California. Since 1990, the size of the least term colony at NAS Alameda has been among the 10 highest in California, and fledgling success has exceeded that of almost all other colonies. For instance, in 1999, NAS Alameda produced over 50 percent of the statewide fledglings; in 2002, the site produced approximately 24 percent; and in 2011, it was again the most successful least term breeding colony, producing 17 percent of the fledglings. If not for the management of the NAS Alameda least term colony by the Navy early on, least terms may not have survived the range and degree of disturbance and disruption of breeding sites that occurred in the San Francisco Bay Area over the last three decades.

The most significant threats to the least tern within the action area include: (1) predation by native, non-native, and human-associated predators; (2) perceived predation and human disturbance; (3) degradation of foraging areas through the development of a marina in Seaplane Lagoon and increased boat traffic that will reduce foraging success, (4) obstruction of access to foraging areas as a result of development between the least tern colony and documented foraging areas; and (5) sea level rise associated with global climate change. The habitat attributes at NAS Alameda that have allowed it to be one of the most successful least tern breeding colonies in the world over the last 20 years are primarily attributed the large buffer zone surrounding the 9.7acre nesting area (Caffrey 2005). This buffer zone is comprised of runway tarmac, except for sparse, low-growing vegetation, and a few small anthropogenic structures to the north, south, and west. As a result of a lack of vegetation and human structures, the large buffer zone provides little habitat for potential least tern predators, allows least terns to detect and react naturally to potential predators, and allows for a more effective predator control program. Because of these attributes, predation pressure at NAS Alameda has been documented to be less intense than at other sites with season-long predator-control programs (Caffrey 2005). Since the Navy no longer maintains the runways for aircraft use, the tarmac is cracking, corroding, and collapsing in some areas, increasing the amount of weedy vegetation capable of establishing at the site. The establishment of weedy vegetation, if not adequately controlled, will provide habitat for potential predators.

The relative lack of human structures in three of the cardinal directions also provides least terms with unobstructed access to documented foraging areas in those directions. During the breeding season, least terms forage for fish in the open waters offshore of the western end of the island, which contains extensive and productive foraging areas (Caffrey 2005). Because of its northern location, NAS Alameda is relatively unaffected during El Niño years, when many southern California sites experience pronounced breeding failure resulting from limited food availability (Caffrey 1995). As global climate change increases ocean surface temperatures, the frequency of El Niño-like conditions in southern California may increase, increasing the importance of the colony at NAS Alameda to the species as a whole (Caffrey 2005).

Routine dredging of the Oakland Inner and Outer Harbors by the U.S. Army Corps of Engineers occurs during the least tern breeding season. Dredging these documented foraging areas during the least tern breeding season temporarily adversely affects the least tern by reducing the quality of approximately 452 acres of open water foraging habitat, reducing least tern foraging success,

and the quality of habitat for several species of fish least terms prey on. To compensate for these effects, each year the Army Corps of Engineers funds predator management at the least term colony.

The removal of contaminated sediments from Seaplane Lagoon, a documented least tern foraging area, occurred in 2011 and 2012 and during the least tern breeding season, under the authority of the Navy and the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). This action temporarily reduced the amount and quality of foraging habitat within Seaplane Lagoon. In addition to the temporarily loss of foraging habitat, these activities disturbed sediments known to be contaminated with numerous chemicals, including heavy metals, solvents, paints, detergents, acids, caustics, mercury, oil and grease, PCBs, DDT, and Radium 226, hazardous substances known to be chemical stressors to wildlife. Once these sediments are suspended in the water, they may have caused fish to leave the area and/or disrupt the reproductive success of fish species the least terns prey on, thereby reducing forage availability. In addition, the release of these hazardous substances may have affected least tern reproductive abilities, as many of these chemicals are known to bioaccumulate as they move up the food chain. The Navy did not provide the Service with a biological assessment and did not initiate section 7 consultation with the Service; therefore, the effects of this Federal action to the least tern have not been analyzed and are not fully known.

Recently, the U.S. Department of Transportation initiated section 7 consultation with the Service for the construction of a ferry berthing and maintenance facility on waters east of the U.S.S. Hornet and within the action area. This facility will result in the loss of 0.46 acres of documented least term foraging habitat from the footprint of the facility, in addition to the loss of foraging habitat as a result of maintaining and berthing 11 large commuter ferries at the site. The establishment of this facility will also increase ferry traffic within many of the documented foraging areas surrounding NAS Alameda, further reducing the quality and quantity of foraging habitat and resulting in the perpetual harassment of least terms foraging within the areas subject to ferry traffic to and from the facility.

Significant differences between the description of the proposed action outlined in the 1999 BO and the description of the proposed action outlined in this biological opinion, and thus the environmental baseline, are: (1) the inclusion of the VA Project; (2) the removal of a golf course and associated 120-unit lodging facility and parking lot for 200 vehicles totaling six acres in the NWT; (3) the removal of the 58-acre light industrial area in the NWT; and (4) the Proposed Refuge will no longer be conveyed by the Navy to the Service.

Effects of the Proposed Action

The proposed VA Project and City's redevelopment at NAS Alameda would not directly eliminate any least term nesting habitat at the site. However, the proposed action would result in about a 35 percent loss of the buffer zone habitat, including about 14 acres of the 525-acre Proposed Refuge and the majority of the 274.4-acre NWT, which will have the effect of increasing predation, perceived predation and human disturbance, and reduce the ability to conduct effective predator management at the site. In addition, the proposed action will decrease

access to and reduce the quality and quantity of the documented foraging areas surrounding NAS Alameda.

Increased Predation, Perceived Predation, and Human Related Disturbances

The vast majority of species identified as potential predators of least terms are native. However, many are species whose population levels and distributions have substantially expanded in response to anthropogenic changes in habitats and ecological communities. For example, important native human-associated predators of least tern adults, chicks, fledglings, and eggs at NAS Alameda include common raven, raccoon, Norway rat, and numerous species of gull; species that tend to thrive in urban environments. In addition to native human-associated predators, the non-native feral cat is a human-associated predator that often predates on least terns. Human-associated predators benefit from human activities that eliminate competition and predation, create new foraging opportunities such as garbage and dumps, or provide direct supplement through feeding. Increased food availability from waste materials and garbage associated with the VA Project, Sports Complex, Regional Park, Civic Core Area, and Marina Area will attract and support greater densities of mammalian predators, including rats, cats, and raccoons; and avian predators such as Corvids and gulls. As populations of these predators increase in areas surrounding the VA Undeveloped Area, individuals will be forced to disperse as a result of density-dependent factors. Dispersing individuals will likely attempt to infiltrate the VA Undeveloped Area and prey on least terns.

The effects of predators on their prey are not solely ascribed to direct killing. Perceived predation, as a result of increased predator activities or anthropogenic activities that elicit antipredator responses in least terms, can have significant negative effects on reproductive output and amplify effects from other stressors. Antipredator responses to potential predators and anthropogenic activities that elicit such responses include changes in habitat use, vigilance, and foraging behavior, or physiological changes, any or all of which may affect prey demography (Zanette et al. 2011). Although the effects of perceived predation has not been quantified for the least tern, Zanette et al. (2011), in the first study of its kind, documented a 40 percent reduction in the number of offspring produced per year by wild free-living song sparrows, in response to a field experiment in which direct predation was eliminated and perceived predation was manipulated by broadcasting predator playback calls. In addition, they found that perceived predation alone resulted in females laying fewer but heavier eggs, of which a greater proportion failed to hatch; broods weighed less and were more susceptible to thermoregulatory stress; and a greater proportion of nestlings expired. Behaviorally, song sparrows subject to predator playback calls, without any direct predation, were more skittish, spent shorter times on and longer times off the nest during incubation, and made fewer feeding visits per hour during brood rearing.

Direct predation and the perception of predation have substantial negative effects on least tern reproductive output. Even small increases in predation can have devastating effects on least terns, such as causing complete reproductive failure and colony abandonment (Burger 1984). For example, between May 25 and June 6, 2006, the year with the lowest fledgling to pair ratio at NAS Alameda since 1982, a pair of burrowing owls killed at least 26 adults and 15 chicks, and least tern anxiety and stress levels were noted as being clearly elevated by colony monitors

(Euing 2007). As a result of predation pressure by a single pair of burrowing owls, a portion of the least terns at NAS Alameda abandoned the site and began nesting at Hayward Regional Shoreline.

The ability to effectively manage predation and perceived predation at NAS Alameda has been attributed to the large buffer zone surrounding the nesting area. The proposed VA Project and City's redevelopment at NAS Alameda will decrease the homogeneity of the buffer zone and increase human presence and human activities within the action area, thereby increasing habitat for human-associated predators. According to D. Pomeroy, Group Leader, Base Conservation/Biology Section, Navy, 1986 to 1999 (Pers. Comm. 2010), development in the NWT will make it more difficult to effectively manage predators at the site. With a greater public presence and development along the northern edge of the VA Undeveloped Area, the amount of room available to safely conduct predator management will decrease. A decrease in the amount of room to conduct effective predator management and increased human presence will likely result in an inability to use rifles in some areas; restricting firearm control of predators to air rifles and shotguns. Also, buildings and landscaping provide nesting and perching habitat for avian predators and hiding places for mammalian predators, making it more difficult to detect and remove potential predators. Managing predators on the eastern side of the Proposed Refuge. where substantial human structures currently exist, is more difficult than on the western side of the site, where there are no buildings (D. Pomeroy, pers. comm. 2010).

Another advantage of a large buffer zone and limited development is the relatively low level of ambient nighttime light near the least tern colony. The VA lighting study conducted by Silverman and Light (2011) measured footcandle light levels at the least tern colony and the footlambert light levels within 750 feet of the least tern colony. A footcandle is a unit of illumination that measures the amount of light falling on a given surface (Silverman and Light 2011). A footlambert is a unit of luminance that measures the amount of light emitted in a particular direction (i.e., light emitted from a source toward the least tern colony, as perceived by the least terns) (Silverman and Light 2011). Ambient nighttime light influences the ability of nocturnal predators to detect and capture prey, and alters the risk environment for prey. Due to the inevitable increase in ambient nighttime light levels at NAS Alameda as a result of the VA Project and the City's redevelopment, the ability of nocturnal predators (i.e., raccoons, skunks, and owls) to successfully prey on least terms may be enhanced. Increased nighttime lighting may also affect the least tern by increasing the perception by the least tern that the risk of predation has increased as a result of increased light intensity within view of the colony, which would decrease breeding success. The VA and City propose to ensure the footcandle nighttime light level does not increase by more than 10 percent above current levels at the least tern colony, which would minimize the effect of increasing the ability of nocturnal predators to detect and capture least terns; however, the City and VA do not propose to limit an increase in the amount of nighttime light perceived by the least terns, which would reduce stress associated with the perception by the least tern that the risk of predation has increased.

Traffic from employee commuters (approximately 250), VA patients (approximately 543 per day), and recreationist traveling to the regional park will increase traffic noise. The effects of traffic noise on the least tern may result in behavioral changes, such as avoiding flying over

trafficked areas, impairing the ability of least terns to effectively hear and detect predators and conspecifics, and/or increasing stress and alter reproductive and other hormone levels. However, according to a literature review on the effects of highway noise on birds (Dooling and Popper 2007), there are no studies definitively identifying traffic noise as having adverse behavioral or physiological effects on birds and highway noise below a bird's masked auditory threshold has no effect on the bird. Thus, the most probable effect of noise from road traffic to least terns would be a reduction in their ability to hear conspecifics and potential predators. The potential effects of increased traffic noise, from several cars per minute (significantly less than highway traffic levels), on the ability of least terns to hear conspecifics or predators will be minimized by maintaining the large buffer zone. The large buffer zone will attenuate noise from road traffic more than 0.4 mile away, significantly minimizing the effects on least terns at the nesting colony.

The VA Project and the City's redevelopment activities will likely increase direct predation and perceived predation on the least term by increasing the carrying capacity of potential predators. increasing their success rate, and reducing the ability to conduct effective predator management at the site; regardless of the implementation of the proposed avoidance and minimization measures. Nevertheless, the VA Project has been located as far away from the least tern colony as the property configuration allowed for, providing for an adequate buffer of the adverse effects of the development to the species, and the VA Project and City's redevelopment include building. height specifications and configurations to reduce habitat for potential predators and to reduce obstruction to least term foraging areas to the north. In addition to development configurations that were specifically designed to reduce the effects of the proposed project to the least tern and maintaining a large buffer zone, the proposed action includes: (1) maintaining predator control efforts at current or greater levels so that predator managers can increase and adapt as predation pressures increase or change; (2) monitoring the least tern colony to determine breeding success and predation pressure; (3) limiting the amount of and type of vegetation planted in areas adjacent to the VA Undeveloped Area to reduce habitat for avian and mammalian predators; (4) installing perch deterrents on artificial structures that may provide habitat for avian predators; (5) minimizing increases in footcandle nighttime lighting to reduce increases in directed predation at night; (6) prohibiting feral cat feeding stations and colonies to reduce direct predation; (7) educating the public as to the activities being conducted to manage the least tern colony to minimize human aid of predators; (8) restricting public access and maintaining a fence around the VA Undeveloped Area to minimize antipredator responses and harassment of the least term from human presence and to minimize the potential for vandalism; (9) managing vegetation to reduce hiding places for potential predators; (10) providing annual funding for predator management and least tern colony management; and (11) reducing aircraft disturbance near the site to reduce perceived predation and harassment.

Loss of Foraging Habitat

As part of the City's redevelopment of NAS Alameda, Seaplane Lagoon (Marina Area) will be developed as a marina. The Marina Area has been consistently documented as being used by least terms for foraging. According to Susan Euing (National Wildlife Refuge Biologist at NAS Alameda, Pers. Comm. 2011), due to the presence of Breakwater Island, the waters of the Marina Area are calmer than the San Francisco Bay, and least terms tend to forage in the Marina Area on

windier days due to relative calmness of the water. The development of the Marina Area will result in the direct loss of a portion of this foraging habitat as a result of constructing the marina and berthing boats at the site and it will reduce the quality foraging habitat as a result of increased boat traffic. In addition, the development of the NWT will obstruct access to documented foraging areas in the Oakland Inner Harbor. It is not clear if least terns will choose to fly around the development in the NWT, rather than fly over it. Flying around the NWT increases the round-trip flight distance to the Oakland Inner Harbor by approximately 2 miles. Both the development of the Marina Area and NWT may force least terms to travel farther to forage and spend less time with chicks. Increased travel time to forage and spending less time with chicks would result in increased chick mortality due to malnutrition and temperature related stress. The development of the Marina Area would also decrease the quality of foraging habitat throughout the Marina Area and other waters within the action area due to increased boat traffic and potential oil and gas leaks from the boats. A conservation easement or other enforceable property interest and the implementation of a "No Wake Zone" and a "Water Craft Exclusion Zone" on other waters with documented least term foraging to be transferred to the City have been proposed to minimize these effects.

.Construction Related Effects

In addition to the effects of the completed project to the least tern, construction related activities would primarily consist of increased noise and vibration, construction traffic, and the operation of construction equipment, which could increase stress, harassment, and perceived predation that would result in decreased breeding success. In addition, increased human activities associated with the construction of the VA Project and the City's redevelopment may increase habitat for predators of least terns. However, the effects of construction related activities will be avoided and minimized by not conducting activities that will increase ambient noise levels and vibration at the least tern colony nesting site during the least tern breeding season, routinely checking stockpiled construction materials for potential predators, properly disposing of garbage, and the installation and maintenance of a construction barrier fence to ensure construction activities are limited to the construction area footprint.

Summary

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While the VA and City have proposed numerous measures to minimize the short and long term effects of the redevelopment of NAS Alameda on the least tern, we expect the effects of implementation of the proposed project to permanently decrease, by a small but measureable extent, the future reproductive potential and long term average size of the least tern colony at NAS Alameda. We base this conclusion on the loss of buffer zone habitat and these associated additive effects: (1) an incremental decrease in the effectiveness of predator control; (2) an incremental increase in actual and perceived predation and increased human disturbance from increased human presence; (3) a reduction in the quality and quantity of foraging habitat; and (4) the potential increase in foraging time due to the development of the NWT.

Cumulative Effects

Cumulative effects include the effects of future State, Tribal, local or private actions that are reasonably certain to occur in the action area considered in this biological opinion. Future Federal actions that are unrelated to the proposed action are not considered in this section because they require separate consultation pursuant to section 7 of the Act.

CERCLA Activities

At the southwestern corner of NAS Alameda is IR-2, an approximately 100-acre site that includes an approximately 60-acre former landfill, approximately 2,200 feet west of the least term colony. Installation Restoration Site 2 was used by the Navy to dispose of waste, including chemical drums (contents unknown), solvents, oily waste and sludge, paint, plating waste, industrial strippers and cleaners, acids, mercury, PCB-containing liquids, batteries, low-level radioactive waste, inert ordinance, asbestos, pesticides, tear gas agent, biological waste from the Oak Knoll Naval Hospital, creosote, dredge spoils, and waste medicines and reagents. The Navy plans to conduct remediation activities at IR-2 over the next several years, beginning in the spring of 2012. Because the remediation activities at IR-2 are being performed under CERCLA; no permits are specifically required for the on-site elements of the project, including, based on the Navy's interpretation of CERCLA, section 7 consultation with the Service. Therefore this activity is being included in the cumulative effects section of this biological opinion. The specific effects of this action to the least tern are unclear, because the Navy has not provided the Service with a BA describing the action in sufficient detail to discern the potential effects to the species. However, based on the information the Navy has provided the Service, remediation activities at IR-2 include establishing large staging areas within the Proposed Refuge, conducting activities during the least tern breading season, removing contaminated materials from the landfill, and covering the landfill. From this, it is clear that remediation activities at IR-2 will temporarily and significantly increase human disturbance to the west of the least tern colony. The long-term, but temporary, loss of buffer zone habitat to the west of the least tern colony as a result of the remediation of IR-2, combined with the loss of buffer zone habitat to the north from the construction and development of the VA Project and City's redevelopment activities, will temporarily reduce unobstructed access to foraging habitat by more than 60 percent and increase anthropogenic disturbance within the buffer zone, which will harm the least term by stressing it to such an extent that breeding success will be reduced.

Climate Change and Sea Level Rise

Sea level rise associated with global climate change is a significant threat to the long-term persistence of the least tern colony within the action area. According to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC 2007), the global sea level rose by about 400 feet during the several millennia that followed the end of the last ice age (approximately 21,000 years ago), and stabilized between 3,000 and 2,000 years ago. Sea level indicators suggest that global sea level did not change significantly from then until the late 19th century. The instrumental record of modern sea level change provides evidence of the onset of sea level rise again during the 19th century. Estimates show that during the 20th century global

average sea level rose at a rate of about 0.07 inch per year.

Satellite observations available since the early 1990s provide more accurate sea level data with nearly global coverage. This satellite altimetry data set shows that since 1993, sea level has been rising at a rate of approximately 0.12 inch per year, significantly higher than the average during the previous half century (IPCC 2007). It has been suggested that the climate system, particularly sea levels, may be responding to climate changes more quickly than the models predict (Heberger et al. 2009). Additionally, most climate models fail to include ice-melt contributions from the Greenland and Antarctic ice sheets and may underestimate the change in volume of the world's oceans.

According to a 2009 study conducted by Pacific Institute, under medium to medium-high emissions scenarios, mean sea level along the California coast will rise from 3.3 to 4.6 feet by the year 2100 (Heberger et al. 2009). Other key findings of the study report that a 4.6 foot sea level rise would flood approximately 150 square miles of land and would result in accelerated erosion resulting in a loss of an additional 41 square miles of California's coast by 2100. The Service has chosen to adopt this medium to medium-high emissions scenario for planning purposes, as have most other government regulatory and land and resource management entities. Based on the model of sea level rise by Herberger et al. (2009), without constructing levees or implementing other preventative measures, the majority of the action area will be inundated by 2100 under the medium-high emissions scenario, except for a small island of land that includes a small portion of the least tern nesting area.

Conclusion

After reviewing the current status of the least tern, the environmental baseline for the species in the action area, the effects of the proposed action, and the cumulative effects, it is the Service's biological opinion that the NAS Alameda Disposal and Reuse project, as proposed, is not likely to jeopardize the continued existence of the least tern. While we expect that the incremental effects of the proposed development will reduce the ability of the least tern colony to achieve the high numbers of breeding pairs and fledglings, we expect it to continue to remain a productive breeding colony. We base our determination on the following: (1) the VA will continue to fund predator management and least tern colony monitoring and other management activities at current or greater levels; (2) predator management activities will adapt to predation pressures; (3) the proposed project maintains a buffer zone size of 511.3 acres, which, due to the size, location, and configuration of the VA Development Area, does not result in a significant decrease in the buffer zone size of 525 acres, which the Service determined to be the minimum area necessary to conserve the least tern colony at NAS Alameda in the 1999 BO; and (4) the proposed project includes design features and standards that have been specifically included to minimize the effects of the proposed project to the species.

INCIDENTAL TAKE STATEMENT

Section 9(a)(1) of the Act and Federal regulations pursuant to section 4(d) of the Act prohibit the take of endangered and threatened species without special exemption. Take is defined as harass,

harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or attempt to engage in any such conduct. Harm is further defined by the Service to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns, including breeding, feeding, or sheltering. Harass is defined by the Service as actions that create the likelihood of injury to a listed species by annoying it to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering. Incidental take is defined as take that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity. Under the terms of section 7(b)(4) and section 7(o)(2), taking that is incidental to and not intended as part of the agency action is not considered to be prohibited taking under the Act provided that such taking is in compliance with this Incidental Take Statement.

The measures described below are nondiscretionary, and must be implemented by the Navy and VA so that they become binding conditions of the conveyance of surplus Federal properties to the City and the transfer of Federal properties to the VA, as appropriate, for the exemption under section 7(0)(2) to apply. The Navy and VA have a continuing duty to regulate the activity that is covered by this incidental take statement, therefore, if: (1) the Navy fails to require the City or any of its contractors to adhere to the terms and conditions of the incidental take statement: through enforceable terms; (2) the VA or its contractors fail to adhere to the terms and conditions of the incidental take statement; or (3) if the Navy and VA fail to retain oversight of the proposed action to ensure compliance with these terms and conditions, the protective coverage of section 7(0)(2) may lapse.

Amount or Extent of Take

The proposed project will increase predation pressure, increase the perception of predation, and reduce the quantity and quality of foraging habitat, adversely affecting all life-stages of the least tern at NAS Alameda; thereby resulting in take of the least tern in the form of harm, through habitat modification and disruptions in breeding success, and harassment. It will be difficult to quantify incremental increases in take to the least tern due to natural population fluctuations. However, these effects will ultimately result in decreased breeding success and an overall decline in the number of breeding pairs at NAS Alameda. Despite these effects, we anticipate that the breeding success of the least tern colony at NAS Alameda will not drop below an average annual fledgling per pair ratio of 0.79, over any consecutive five year period; and the overall number of breeding pairs will not drop below 300 in any given year.

Effect of the Take

In the accompanying biological opinion, the Service determined that this level of anticipated take is not likely to result in jeopardy to the least tern.

Reasonable and Prudent Measures

The following reasonable and prudent measures are necessary and appropriate to minimize the effects of take on the least tern:

- 1: The Navy and VA shall minimize the effect of the take to the least tern.
- 2. The VA shall assure the long-term persistence and viability of the least tern colony at NAS Alameda.

Terms and Conditions

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To be exempt from the prohibitions of section 9 of the Act, the Navy and VA shall comply with, and the Navy shall ensure that the City complies with, the following terms and conditions, which implement the *Reasonable and Prudent Measure*. These Terms and Conditions are non-discretionary.

- 1. The following terms and conditions implement reasonable and prudent measure one (1):
- a. The Navy, VA, and City shall minimize the potential for harm and harassment of the least tern resulting from the project related activities by implementing the project and the avoidance and minimization measures, as described in the Description of the Proposed Action section of this biological opinion.

Prior to the conveyance of property from the Navy to the City and prior to the transfer of property from the Navy to the VA, the VA and City shall conduct a Service-approved nighttime lighting study to determine the ambient nighttime light levels, including lumens (perceived brightness of light) and footcandles, at the least tern colony and within 750 feet of the least tern colony. The results of this Service-approved nighttime lighting study will establish the baseline ambient nighttime light levels at the least tern colony and within 750 feet of the least tern colony. From April 1 through August 15 of each year, the City and VA shall ensure that the level of ambient nighttime light at the least tern colony and within 750 feet of the least tern colony, including lumens and footcandles, as a result of City and VA lighting sources, does not increase by more than 10 percent above the baseline levels established in the Service-approved nighttime lighting study.

- c. As part of the deed restriction to be placed on properties conveyed by the Navy to the City (as defined in Proposed Avoidance and Minimization Measure 2), within the line of site of the VA Undeveloped Area and in the Building Development Zones or NWT: (1) the number of new lights shall be limited to the minimum number required for building security, (2) all lights shall be directed away and/or screened from the VA Undeveloped Area, and (3) tinting of windows, with non-reflective tinting material, within the line of site of the VA Undeveloped Area shall be required.
- d. The Navy shall ensure the City implements the relevant portions of the project description and avoidance and minimization measures, as described in the *Description of the Proposed Action* section of this biological opinion.

2. The following term and condition implements reasonable and prudent measure two (2):

To ensure the 511.3 acre VA Undeveloped Area, as defined in Figure 1, will remain undeveloped, provide an adequate buffer from human related activities, and will be managed in perpetuity for the long-term persistence and sustainability of the least tern colony, the VA shall not convey any portion of the VA Undeveloped Area to any Federal agency or designate any portion of the VA Undeveloped Area as surplus Federal property; unless: (1) through informal section 7 consultation with the Service, it is determined that such an action is not likely to adversely affect the least tern; or (2) it is determined by the Service that such an action would be beneficial to the recovery of the least tern.

Reporting Requirements

The VA shall submit to the Service an annual report and a weekly status report during the least tern breeding:season (April 1 to August 15), as described in the *Description of the Proposed Action* section of this biological opinion.

CONSERVATION RECOMMENDATIONS

Section 7(a)(1) of the Act directs Federal agencies to utilize their authorities to further the purposes of the Act by carrying out conservation programs for the benefit of endangered and threatened species. Conservation recommendations are discretionary agency activities that can be implemented to further the purposes of the Act, such as preservation of endangered species habitat, implementation of recovery actions, or development of information and data bases.

- 1. The Navy should provide the Service with biological assessments for CERCLA activities that may affect the least tern and implement actions that compensate for the effects to the species.
- 2. The VA should work with the Service and other relevant agencies to implement least tern recovery efforts throughout the San Francisco Bay Area.

In order for the Service to be kept informed of actions minimizing or avoiding adverse effects or benefiting listed species or their habitats, the Service requests notification of the implementation of any conservation recommendations.

REINITIATION—CLOSING STATEMENT

This concludes formal consultation on the proposed Naval Air Station Alameda Disposal and Reuse project in the City Alameda, California. As provided in 50 CFR 402.16, reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has been retained (or is authorized by law) and if: (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; (3) the agency action is subsequently modified in a manner that causes an effect to the listed

species or critical habitat that was not considered in this biological opinion; or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must immediately cease, pending reinitiation.

If you have any questions regarding this biological opinion on the proposed Naval Air Station Alameda/Fleet and Industrial Supply Center Alameda Disposal and Reuse project, please contact Ben Solvesky (Ben_Solvesky@fws.gov) or Ryan Olah, Coast Bay/Forest Foothills Division Chief, (Ryan Olah@fws.gov) at (916) 414-6600.

Sincerely,

Susan K. Moore Field Supervisor

: : : Enclosure: .

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Joy Albertson and Susan Ewing, San Francisco Bay National Wildlife Refuge Complex, Newark, California

Robert Doyle, East Bay Regional Parks District, Oakland, California Larry Janes, Department of Veterans Affairs, Mare Island, California Anthony Megliola and Sarah Ann Moore, Department of the Navy, San Diego, California Jennifer Ott, City of Alameda, Alameda, California

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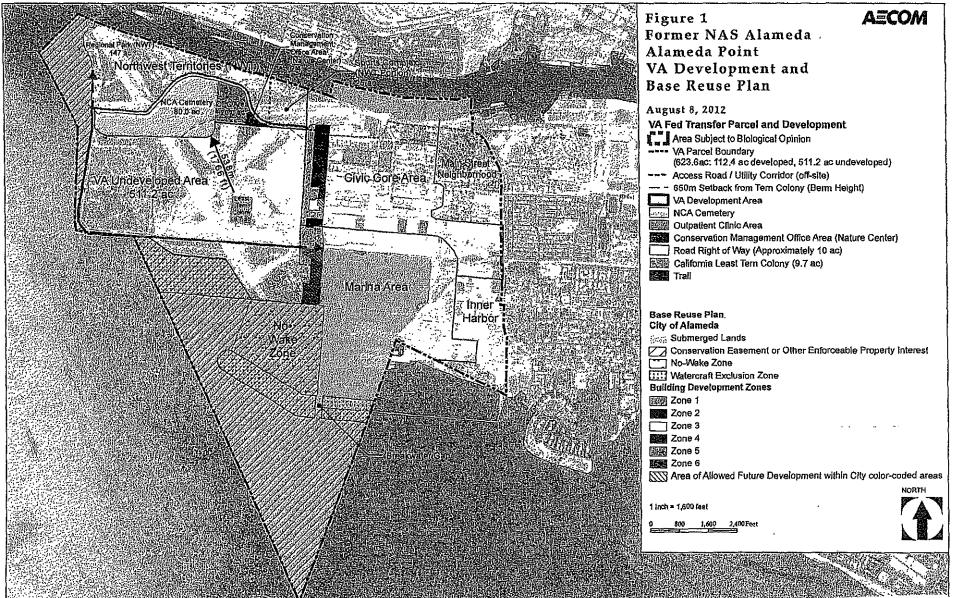
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Personnel Communications

Susan Euing. 2011. Fish and Wildlife Biologist, Antioch Dunes National Wildlife Refuge and Alameda Point, U.S. Fish and Wildlife Service.

Doug Pomeroy. 2010. Group Leader, Base Conservation/Biology Section, U.S. Department of the Navy, 1986 to 1999.



Legible copy can be be located at the office of:
Alameda City Clerk
2263 Santa Clara Ave., Room 380
Alameda, CA 94501
(510) 747-4800

Exhibit 3-A

Legal Description and Plat Map for Northwest Territories - Regional Park

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA A ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHERN LINE OF SAID PARCEL 1, SAID POINT BEING THE WESTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 72°49'42" WEST 6,084.81 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF BEGINNING, ALONG SAID NORTHERN LINE, SOUTH 72°49'42" EAST 4,700.90 FEET;

THENCE, LEAVING SAID NORTHERN LINE, SOUTH 03°11'38" WEST 1,231.24 FEET TO A POINT ON THE NORTHERN LINE OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS;

THENCE, ALONG SAID NORTHERN LINE, THE FOLLOWING TEN (10) COURSES:

- 1) ALONG THE ARC OF A NON-TANGENT 700.05 FOOT (700.00 FOOT GRID) RADIUS CURVE TO THE RIGHT, FROM WHICH THE CENTER OF SAID CURVE BEARS NORTH 16°08'27" EAST, THROUGH A CENTRAL ANGLE OF 60°59'48", AN ARC DISTANCE OF 745.27 FEET,
- 2) NORTH 12°51'45" WEST 180.17 FEET (180.15 FEET GRID),
- 3) ALONG THE ARC OF A TANGENT 480.03 FOOT (480.00 FOOT GRID) RADIUS CURVE TO THE LEFT, THROUGH A CENTRAL ANGLE OF 60°08'18", AN ARC DISTANCE OF 503.85 FEET (503.81 FEET GRID),
- 4) NORTH 73°00'03" WEST 766.82 FEET (766.77 FEET GRID),
- 5) NORTH 84°51'24" WEST 146.03 FEET (146.02 FEET GRID),
- 6) NORTH 73°00'03" WEST 78.68 FEET (78.67 FEET GRID),
- 7) ALONG THE ARC OF A TANGENT 850.06 FOOT (850.00 FOOT GRID) RADIUS CURVE TO THE LEFT, THROUGH A CENTRAL ANGLE OF 64°18'22", AN ARC DISTANCE OF 954.07 FEET (954.00 FEET GRID),

PAGE 1 OF 4 MAY 6, 2013

- 8) SOUTH 42°41'35" WEST 1,001.04 FEET (1,000.97 FEET GRID),
- 9) ALONG THE ARC OF A TANGENT 120.01 FOOT (120.00 FOOT GRID) RADIUS CURVE TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 51°09'29", AN ARC DISTANCE OF 107.15 FEET (107.15 FEET GRID), AND
- 10) NORTH 86°08'56" WEST 1,471.47 FEET (1,471.37 FEET GRID) TO THE NORTHWESTERN CORNER OF SAID 623.56 ACRE PARCEL;

THENCE, LEAVING SAID NORTHWESTERN CORNER, NORTH 14°30'13" EAST 6.86 FEET;

THENCE, NORTH 00°00'14" EAST 428.69 FEET;

THENCE, NORTH 00°52'58" WEST 50.63 FEET;

THENCE, NORTH 18°13'30" EAST 43.17 FEET;

THENCE, NORTH 26°33'54" EAST 20.12 FEET;

THENCE, NORTH 38°20'44" EAST 42.71 FEET;

THENCE, NORTH 01°21'37" WEST 304.99 FEET;

THENCE, NORTH 14°30'09" WEST 15.49 FEET;

THENCE, NORTH 42°08'42" WEST 5.39 FEET;

THENCE, NORTH 48°12'22" WEST 15.42 FEET;

THENCE, NORTH 02°42'07" EAST 66.82 FEET;

THENCE, NORTH 05°36'21" EAST 39.72 FEET;

THENCE, NORTH 00°57'04" WEST 45.18 FEET;

THENCE, NORTH 00°45'25" EAST 76.45 FEET;

THENCE, NORTH 02°47'36" WEST 54.58 FEET;

THENCE, NORTH 09°27'44" WEST 42.58 FEET;

THENCE, NORTH 13°27'57" WEST 60.89 FEET;

THENCE, NORTH 16°55'44" WEST 85.90 FEET;

THENCE, NORTH 21°42'29" WEST 59.31 FEET;

THENCE, NORTH 33°08'08" WEST 58.31 FEET;

THENCE, NORTH 10°58'28" WEST 34.81 FEET;

PAGE 2 OF 4 MAY 6, 2013

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THENCE, NORTH 17°51'46" WEST 45.61 FEET;
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- THENCE, NORTH 48°14'21" WEST 48.93 FEET;
- THENCE, NORTH 23°03'21" WEST 34.78 FEET;
- THENCE, NORTH 14°15'28" WEST 101.02 FEET;
- THENCE, NORTH 27°57'59" WEST 31.45 FEET;
- THENCE, NORTH 06°32'34" WEST 49.32 FEET;
- THENCE, NORTH 00°23'04" EAST 186.31 FEET;
- THENCE, NORTH 33°11'30" EAST 49.10 FEET;
- THENCE, NORTH 40°08'11" EAST 60.30 FEET;
- THENCE, NORTH 43°38'03" EAST 30.26 FEET;
- THENCE, NORTH 55°54'34" EAST 34.52 FEET;
- THENCE, NORTH 33°02'53" EAST 17.82 FEET;
- THENCE, NORTH 16°12'27" EAST 12.61 FEET;
- THENCE, NORTH 06°54'35" EAST 22.11 FEET;
- THENCE, NORTH 02°17'26" WEST 17.51 FEET;
- THENCE, NORTH 19°06'07" EAST 17.11 FEET;
- THENCE, NORTH 38°37'28" EAST 22.86 FEET;
- THENCE, NORTH 52°27'26" EAST 24.35 FEET;
- THENCE, SOUTH 84°13'23" EAST 16.29 FEET;
- THENCE, SOUTH 67°48'05" EAST 24.91 FEET;
- THENCE, SOUTH 55°03'46" EAST 12.87 FEET;
- THENCE, SOUTH 75°24'01" EAST 22.69 FEET;
- THENCE, NORTH 65°59'31" EAST 36.99 FEET;
- THENCE, NORTH 39°20'16" EAST 34.19 FEET;
- THENCE, NORTH 35°35'00" EAST 17.46 FEET;

PAGE 3 OF 4 MAY 6, 2013

THENCE, NORTH 31°41'50" WEST 29.75 FEET;

THENCE, NORTH 22°13'30" EAST 21.10 FEET;

THENCE, NORTH 14°51'30" EAST 30.77 FEET;

THENCE, NORTH 09°11'46" EAST 33.98 FEET;

THENCE, NORTH 08°12'10" EAST 18.92 FEET;

THENCE, NORTH 38°35'13" EAST 10.71 FEET TO A POINT ON SAID NORTHERN LINE OF PARCEL 1;

THENCE, ALONG SAID NORTHERN LINE, SOUTH 64°57'02" EAST 405.88 FEET TO SAID POINT OF BEGINNING.

CONTAINING 146.39 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

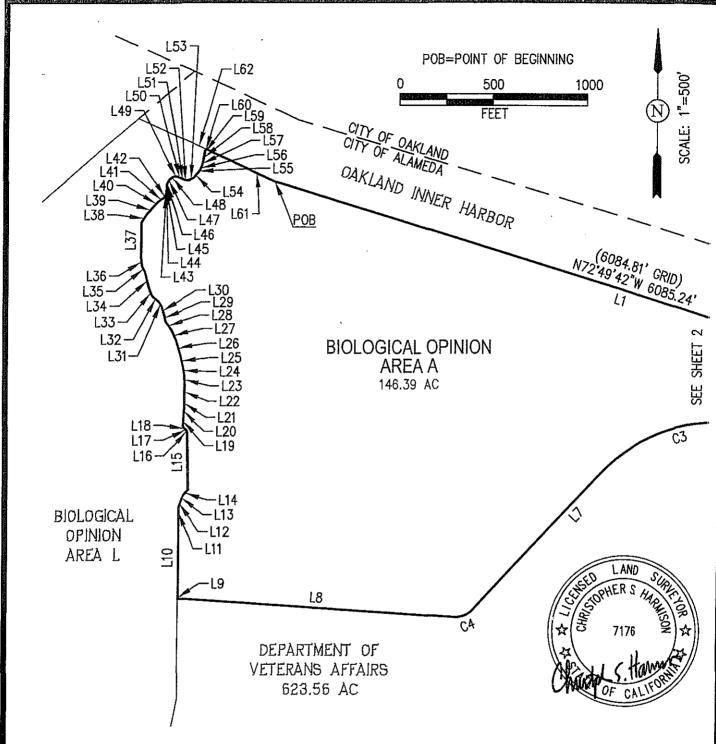
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CHRISTOPHER S. HARMISON, P.L.S. L.S. NO. 7176

REVIEWED & ACCEPTED

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PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA A ALAMEDA, CALIFORNIA

SEE SHEET 3 FOR TABLES

MAY 6, 2013

SHEET 1 OF 3

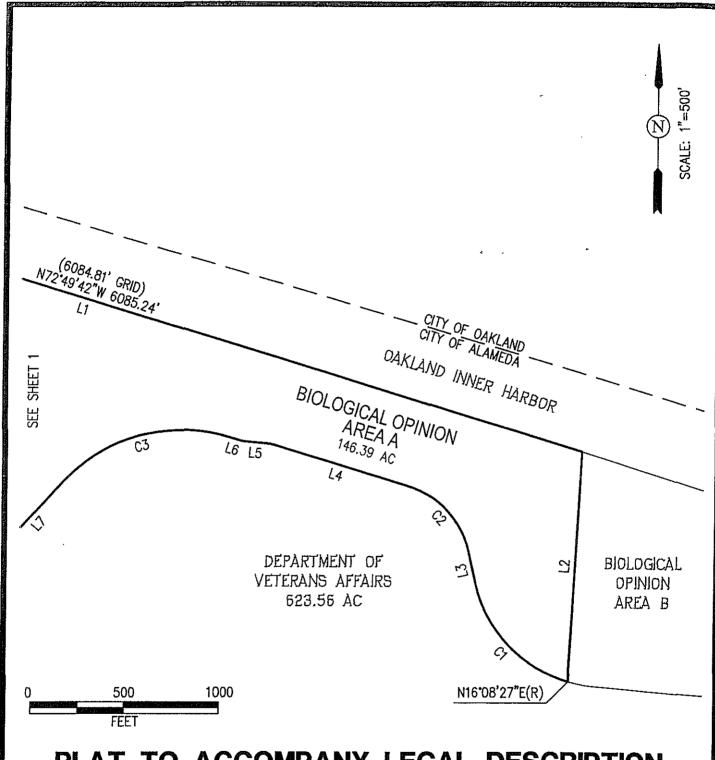
Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS

PLANNERS

6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575



PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA A ALAMEDA, CALIFORNIA

SEE SHEET 3 FOR TABLES

MAY 6, 2013

SHEET 2 OF 3

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS **SURVEYORS PLANNERS** 6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583 TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| LINE TABLE | | | |
|------------|-------------|----------|---|
| NO. | BEARING | LENGTH | |
| L1 | S72'49'42"E | | |
| L2 | S03"11'38"W | 1231.24 | |
| L3 | N12°51'45"W | 180.17 | (|
| L4 | N73'00'03"W | 766.82 | (|
| L5 | N84'51'24"W | 146.03 | (|
| L6 | N73'00'03"W | 78.68 | (|
| L7 | S42'41'35"W | 1001.04 | (|
| L8 | N86'08'56"W | 1471.47' | (|
| L9 | N14'30'13"E | 6.86' | |
| L10 | N00'00'14"E | 428.69 | |
| L11 | N00'52'58"W | 50.63 | |
| L12 | N18"13'30"E | 43.17' | |
| L13 | N26°33'54"E | 20.12 | |
| L14 | N38'20'44"E | 42.71 | |
| L15 | N01'21'37"W | 304.99' | |
| L16 | N14'30'09"W | 15.49' | |
| L17 | N42'08'42"W | 5.39' | |
| L18 | N4812'22"W | 15.42' | |
| L19 | N02'42'07"E | 66.82 | |
| L20 | N05*36'21"E | 39.72' | |
| L21 | N00'57'04"W | 45.18' | |
| L22 | N00'45'25"E | 76.45 | |
| L23 | N02'47'36"W | 54.58' | |
| L24 | N09*27'44"W | 42.58 | |
| | N13'27'57"W | 60.89 | |
| | N16'55'44"W | 85.90' | |
| L27 | N21°42'29"W | 59.31' | |
| L28 | N33'08'08"W | 58.31' | |
| L29 | N10'58'28"W | ·34.81' | |
| L30 | N17°51'46"W | 45.61' | |

| (180.15' (| RID) |
|------------|-------|
| (766.77 | GRID) |
| (146.02' (| GRID) |
| (78.67' G | |
| (1000.97' | GRID) |
| (1471.37 | GRID) |
| | |

| ' GRID) | | | | |
|------------|-------------|---------|--|--|
| LINE TABLE | | | | |
| NO. | BEARING | LENGTH | | |
| L31 | N31°41'50"W | 29.75 | | |
| L32 | N48*14'21"W | 48.93 | | |
| L33 | N23'03'21"W | 34.78' | | |
| L34 | N1415'28"W | 101.02' | | |
| L35 | N27'57'59"W | 31.45 | | |
| L36 | N06'32'34"W | 49.32' | | |
| L37 | N00'23'04"E | 186.31 | | |
| L38 | N33"11'30"E | 49.10' | | |
| L39 | N40°08'11"E | 60.30' | | |
| L40 | N43'38'03"E | 30.26 | | |
| L41 | N55*54'34"E | 34.52' | | |
| L42 | N33'02'53"E | 17.82' | | |
| L43 | N16"12'27"E | 12.61' | | |
| L44 | N06'54'35"E | 22.11' | | |
| L45 | N0247'26"W | 17.51 | | |
| L46 | N19°06'07"E | 17.11' | | |

L47 N38'37'28"E | 22.86'

L48 N52°27'26"E 24.35

L49 S84'13'23"E | 16.29'

L50 | S67°48'05"E | 24.91'

| | CUR | VE TABLE | | |
|-----|--------|-----------|--------|------------------------|
| NO. | RADIUS | DELTA | LENGTH | (GRID) |
| C1 | 700.05 | 60'59'48" | 745.27 | (R=700.00') |
| C2 | 480.03 | 60'08'18" | 503.85 | (R=480.00', L=503.81') |
| C3 | 850.06 | 64'18'22" | 954.07 | (R=850.00', L=954.00') |
| C4 | 120.01 | 51'09'29" | 107.15 | (R=120.00', L=107.15') |

| LINE TABLE | | | |
|------------|-------------|---------|--|
| NO. | BEARING | LENGTH | |
| L51 | S55'03'46"E | 12.87' | |
| L52 | S75'24'01"E | 22.69' | |
| L53 | N65*59'31"E | 36.99 | |
| L54 | N39'20'16"E | 34.19' | |
| L55 | N35'35'00"E | 17.46' | |
| L56 | N2213'30"E | 21.10' | |
| L57 | N14°51'30"E | 30.77 | |
| L58 | N0911'46"E | 33.98' | |
| L59 | N0812'10"E | 18.92 | |
| L60 | N38'35'13"E | 10.71 | |
| L61 | S64*57'02"E | 405.88' | |
| L62 | N64*57'02"W | 797.21' | |

(797.15' GRID)

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA A ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 3 OF 3

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS

SURVEYORS

PLANNERS

6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-B

Legal Description and Plat Map for Northwest Territories - Sports Complex

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA B ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE NORTHERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 72°49'42" WEST 6,084.81 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID NORTHERN LINE, NORTH 72°49'42" WEST 287.56 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION:

THENCE, FROM SAID POINT OF BEGINNING, LEAVING SAID NORTHERN LINE, SOUTH 03°11'38" WEST 1,007.55 FEET TO THE NORTHEASTERN CORNER OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS;

THENCE, FROM SAID NORTHEASTERN CORNER, ALONG THE NORTHERN LINE OF SAID 623.56 ACRE PARCEL, THE FOLLOWING TWO (2) COURSES:

- 1) NORTH 85°20'28" WEST 925.65 FEET (925.59 FEET GRID), AND
- 2) ALONG THE ARC OF A TANGENT 700.05 FOOT (700.00 FOOT GRID) RADIUS CURVE TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 11°28'55", AN ARC DISTANCE OF 140.29 FEET;

THENCE, LEAVING SAID NORTHERN LINE, NORTH 03°11'38" EAST 1,231.24 FEET TO A POINT ON SAID NORTHERN LINE OF PARCEL 1;

PAGE 1 OF 2 MAY 6, 2013

THENCE, ALONG SAID NORTHERN LINE, SOUTH 72°49'42" EAST 1,096.78 FEET TO SAID POINT OF BEGINNING.

CONTAINING 27.51 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

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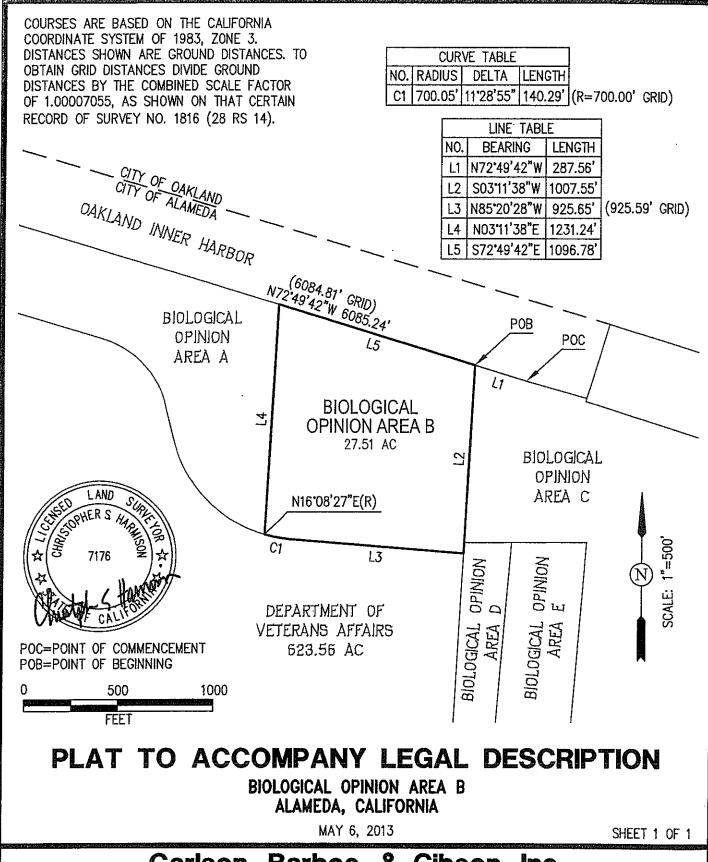
CHRISTOPHER S. HARMISON, P.L.S.
L.S. NO. 7176

REVIEWED & ACCEPTED

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DATE 5 10 13

ת משמא התוניות המשחת שהודים במחולה במחולה במחולה בשחולה בשחולה בשחולה בחודה בתודה בחודה בתודה בחודה בחודה בחודה בחודה בחודה בחודה בחודה בתודה בחודה בחודה בתודה במודה בתודה בת



Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-C

Legal Description and Plat Map for Civic Core (outside numbered zones)

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA C ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 72°49'42" WEST 6,084.81 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF BEGINNING, ALONG SAID NORTHERN LINE, NORTH 72°49'42" WEST 287.56 FEET;

THENCE, LEAVING SAID NORTHERN LINE, SOUTH 03°11'38" WEST 949.84 FEET;

THENCE, NORTH 89°49'25" EAST 652.51 FEET;

THENCE, SOUTH 04°46'44" WEST 2,804.45 FEET;

THENCE, SOUTH 85°12'42" EAST 3,282.60 FEET;

THENCE, SOUTH 39°57'03" EAST 801.69 FEET;

THENCE, SOUTH 04°48'31" WEST 494.71 FEET;

THENCE, SOUTH 85°36'40" EAST 1,251.48 FEET TO A POINT ON THE EASTERN LINE OF SAID PARCEL 1;

THENCE, ALONG SAID EASTERN LINE, THE FOLLOWING SIX (6) COURSES:

- 1) NORTH 03°08'24" EAST 88.09 FEET,
- 2) NORTH 03°01'15" EAST 50.03 FEET (50.03 FEET GRID),
- 3) NORTH 03°29'37" WEST 201.46 FEET (201.45 FEET GRID),
- 4) NORTH 11°23'41" WEST 51.68 FEET (51.68 FEET GRID),
- 5) NORTH 00°34'41" EAST 19.09 FEET (19.09 FEET GRID), AND
- 6) NORTH 00°33'45" EAST 1,143.03 FEET;

THENCE, LEAVING SAID EASTERN LINE, NORTH 85°07'05" WEST 1,840.11 FEET;

PAGE 1 OF 3 MAY 6, 2013

THENCE, NORTH 66°27'32" WEST 109.84 FEET;

THENCE, NORTH 04°43'03" EAST 192.35 FEET;

THENCE, SOUTH 85°21'06" EAST 266.37 FEET;

THENCE, NORTH 05°04'03" EAST 646.79 FEET;

THENCE, ALONG THE ARC OF A NON-TANGENT 325.00 FOOT RADIUS CURVE TO THE LEFT, FROM WHICH THE CENTER OF SAID CURVE BEARS SOUTH 48°52'22" WEST, THROUGH A CENTRAL ANGLE OF 44°02'49", AN ARC DISTANCE OF 249.85 FEET;

THENCE, NORTH 85°10'27" WEST 47.08 FEET;

THENCE, NORTH 04°49'33" EAST 1,674.31 FEET;

THENCE, SOUTH 89°26'59" WEST 65.23 FEET;

THENCE, NORTH 87°56'01" WEST 451.14 FEET;

THENCE, NORTH 82°59'01" WEST 535.95 FEET;

THENCE, NORTH 79°08'01" WEST 261.40 FEET;

THENCE, NORTH 10°51'59" EAST 60.00 FEET;

THENCE, NORTH 57°43'01" WEST 83.00 FEET;

THENCE, SOUTH 32°41'59" WEST 74.13 FEET;

THENCE, NORTH 72°52'01" WEST 1,716.66 FEET;

THENCE, NORTH 17°07'59" EAST 17.22 FEET TO A POINT ON SAID NORTHERN LINE OF PARCEL 1;

PAGE 2 OF 3 MAY 6, 2013

THENCE, ALONG SAID NORTHERN LINE, NORTH 74°11'24" WEST 334.26 FEET TO SAID POINT OF BEGINNING.

CONTAINING 298.01 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

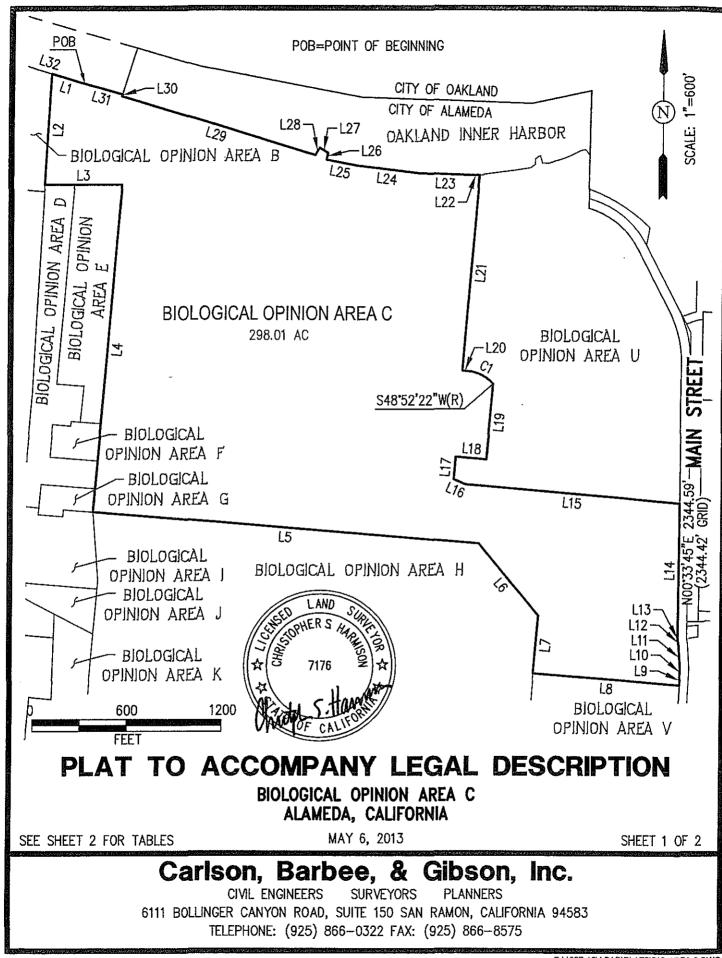
ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

SEO LAND SURJECTION OF THE SUR

Christopher S. Harmison, P.L.S. L.S. NO. 7176

REVIEWED & ACCEPTED
CADASTRAL
DATE 5 10 13



| | LINE TABL |] | |
|-----|-------------|---------|----------------|
| NO. | BEARING | LENGTH | |
| L1 | N72'49'42"W | 287.56 | <u> </u> |
| L2 | S03'11'38"W | 949.84 | |
| L3 | N89'49'25"E | 652.51' | } |
| L4 | S04'46'44"W | 2804.45 | |
| L5 | S85"12'42"E | 3282.60 | |
| L6 | S39'57'03"E | 801.69 | |
| L7 | S04'48'31"W | 494.71 | |
| L8 | S85'36'40"E | 1251.48 | |
| L9 | N03'08'24"E | 88.09' | |
| L10 | N03'01'15"E | 50.03 | (50.03' GRID) |
| L11 | N03'29'37"W | 201.46 | (201.45' GRID) |
| L12 | N11"23'41"W | 51.68' | (51.68' GRID) |
| L13 | N00'34'41"E | 19.09' | (19.09' GRID) |
| L14 | N00'33'45"E | 1143.03 | |
| L15 | N85°07'05"W | 1840.11 | |
| L16 | N66°27'32"W | 109.84 | |
| L17 | N04'43'03"E | 192.35 | |
| L18 | S85'21'06"E | 266.37 | |
| L19 | N05°04'03"E | 646.79' | |
| L20 | N85*10'27"W | 47.08' | li |

| LINE TABLE . | |] | |
|--------------|-------------|----------|----------------|
| NO. | BEARING | LENGTH |] |
| L21 | N04'49'33"E | 1674.31 | |
| L22 | S89'26'59"W | 65.23' |] |
| L23 | N87'56'01"W | 451.14 | |
| L24 | N82*59'01"W | 535.95 |] |
| L25 | N79'08'01"W | 261.40' | |
| L26 | N10'51'59"E | 60.00' | |
| L27 | N57'43'01"W | 83.00' | |
| L28 | S32'41'59"W | 74.13' | |
| L29 | N72*52'01"W | 1716.66' |] |
| L30 | N17'07'59"E | 17.22 |] |
| L31 | N74"11'24"W | 334.26' | (334.22' GRID) |
| L32 | N72'49'42"W | 6085.24 | (6084.81' GRIE |

| CURVE TABLE . | | | | |
|---------------|--------|-----------|--------|--|
| NO. | RADIUS | DELTA | LENGTH | |
| C1 | 325.00 | 44'02'49" | 249.85 | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA C ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS

6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-D

Legal Description and Plat Map for Civic Core/Zone 1A

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA D ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE NORTHERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 72°49'42" WEST 6,084.81 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID NORTHERN LINE, NORTH 72°49'42" WEST 287.56 FEET;

THENCE, LEAVING SAID NORTHERN LINE, SOUTH 03°11'38" WEST 949.84 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, NORTH 89°49'25" EAST 252.48 FEET;

THENCE, SOUTH 04°49'22" WEST 1,704.74 FEET;

THENCE, SOUTH 85°13'22" EAST 228.80 FEET;

THENCE, SOUTH 05°17'39" WEST 308.18 FEET;

THENCE, NORTH 85°26'52" WEST 74.38 FEET;

THENCE, SOUTH 04°22'12" WEST 40.24 FEET;

THENCE, NORTH 85°11'57" WEST 156.94 FEET;

THENCE, SOUTH 04°50'45" WEST 277.30 FEET;

THENCE, SOUTH 85°15'16" EAST 405.16 FEET;

THENCE, SOUTH 04°46'44" WEST 238.51 FEET;

THENCE, NORTH 85°14'50" WEST 460.05 FEET;

THENCE, SOUTH 04°48'43" WEST 200.67 FEET;

PAGE 1 OF 2 MAY 6, 2013

THENCE, NORTH 85°12'42" WEST 145.41 FEET TO A POINT ON THE EASTERN LINE OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS;

THENCE, ALONG SAID EASTERN LINE, THE FOLLOWING TWO (2) COURSES:

- 1) NORTH 05°04'35" EAST 959.87 FEET, AND
- 2) NORTH 03°11'38" EAST 1731.10 FEET (1,730.98 FEET GRID) TO THE NORTHEASTERN CORNER OF SAID 623.56 ACRE PARCEL;

THENCE, FROM SAID NORTHEASTERN CORNER, NORTH 03°11'38" EAST 57.71 FEET TO SAID POINT OF BEGINNING.

CONTAINING 17.45 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

SCONERS. HOMESON AND SUPPLY OF CALIFORNIA OF

CHRISTOPHER S. HARMISON, P.L.S.

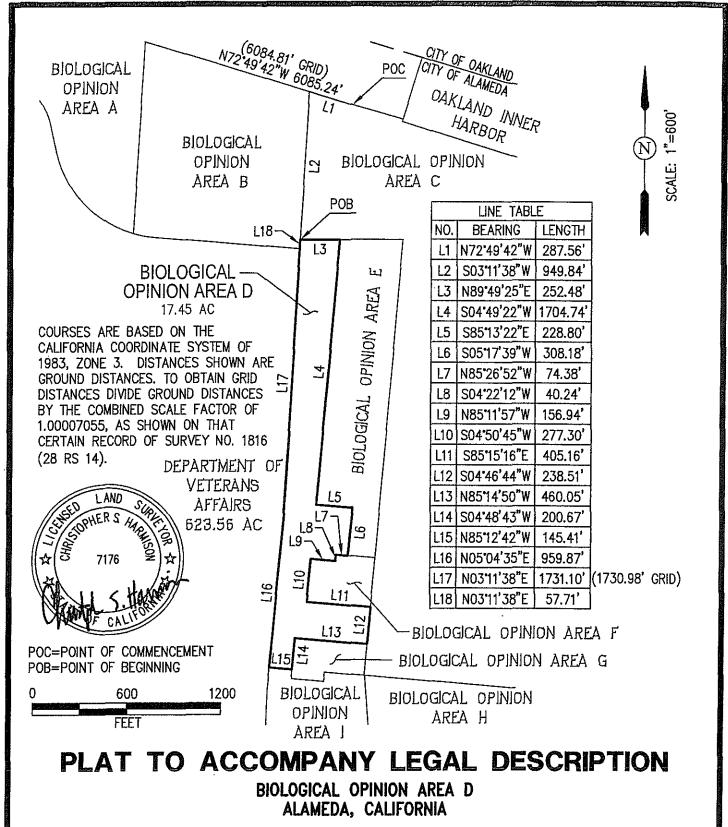
L.S. NO. 7176

REVIEWED & ACCEPTED

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PAGE 2 OF 2



MAY 6, 2013

SHEET 1 OF 1

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-E

Legal Description and Plat Map for Civic Core/Zone 2

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA E ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE NORTHERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 72°49'42" WEST 6,084.81 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID NORTHERN LINE, NORTH 72°49'42" WEST 287.56 FEET;

THENCE, LEAVING SAID NORTHERN LINE, SOUTH 03°11'38" WEST 949.84 FEET;

THENCE, NORTH 89°49'25" EAST 252.48 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, NORTH 89°49'25" EAST 400.03 FEET;

THENCE, SOUTH 04°46'44" WEST 2,046.77 FEET;

THENCE, NORTH 85°26'52" WEST 173.81 FEET;

THENCE, NORTH 05°17'39" EAST 308.18 FEET;

THENCE, NORTH 85°13'22" WEST 228.80 FEET;

THENCE, NORTH 04°49'22" EAST 1,704.74 FEET TO SAID POINT OF BEGINNING.

CONTAINING 17.00 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

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END OF DESCRIPTION

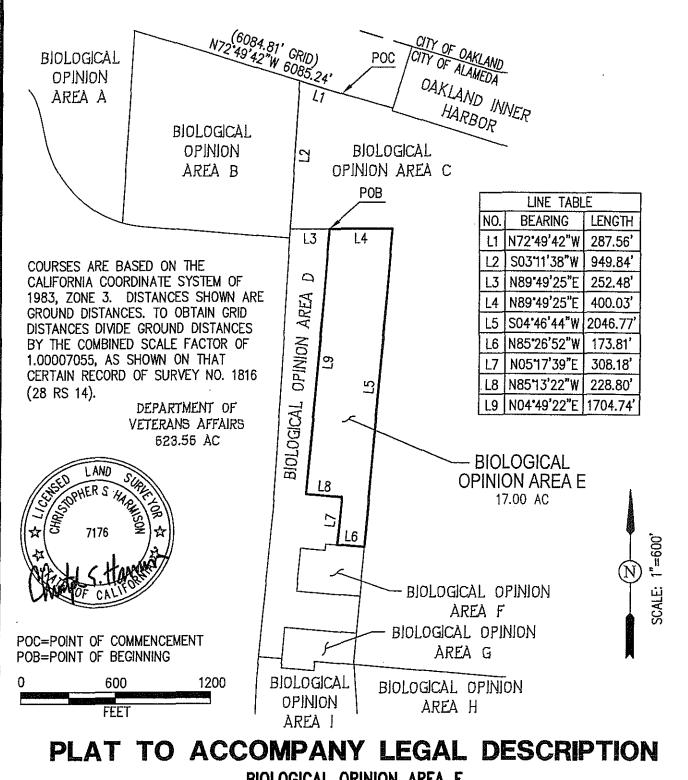
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CHRISTOPHER S. HARMISON, P.L.S. L.S. NO. 7176

REVIEWED & ACCEPTED

CADASTRAL

DATE 5 10 13



BIOLOGICAL OPINION AREA E ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 1 OF 1

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS

SURVEYORS

PLANNERS

6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-F

Legal Description and Plat Map for Civic Core/Zone 3

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA F ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE NORTHERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 72°49'42" WEST 6,084.81 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID NORTHERN LINE, NORTH 72°49'42" WEST 287.56 FEET;

THENCE, LEAVING SAID NORTHERN LINE, SOUTH 03°11'38" WEST 949.84 FEET;

THENCE, NORTH 89°49'25" EAST 652.51 FEET;

THENCE, SOUTH 04°46'44" WEST 2,046.77 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, SOUTH 04°46'44" WEST 318.22 FEET;

THENCE, NORTH 85°15'16" WEST 405.16 FEET;

THENCE, NORTH 04°50'45" EAST 277.30 FEET;

THENCE, SOUTH 85°11'57" EAST 156.94 FEET;

THENCE, NORTH 04°22'12" EAST 40.24 FEET;

THENCE, SOUTH 85°26'52" EAST 248.19 FEET TO SAID POINT OF BEGINNING.

CONTAINING 2.81 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

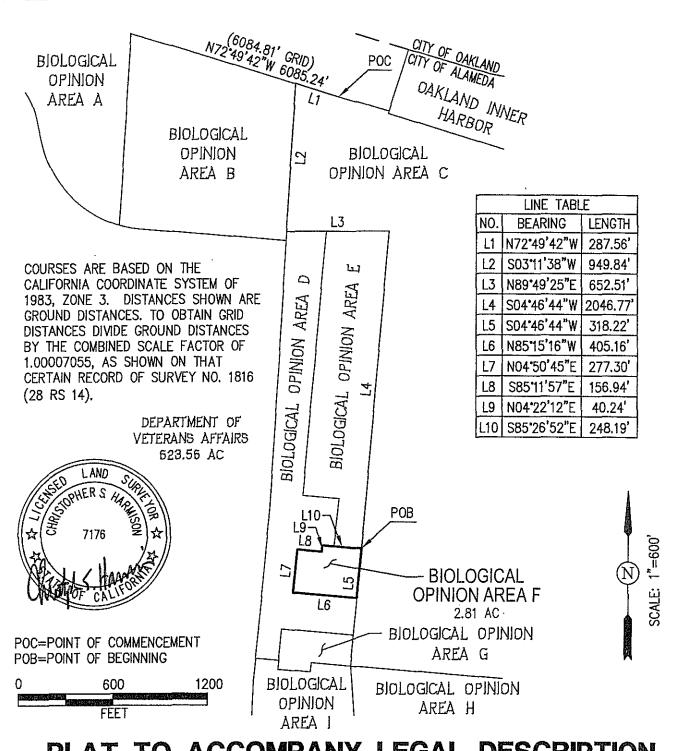
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Christopher S. Harmison, P.L.S. L.S. NO. 7176

REVIEWED & ACCEPTED

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DATE 5 10 13



PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA F ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 1 OF 1

Carlson, Barbee, & Gibson, Inc.

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

CIVIL ENGINEERS **PLANNERS SURVEYORS** 6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

Exhibit 3-G

Legal Description and Plat Map for Civic Core/Zone 4

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA G ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE NORTHERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 72°49'42" WEST 6,084.81 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID NORTHERN LINE, NORTH 72°49'42" WEST 287.56 FEET;

THENCE, LEAVING SAID NORTHERN LINE, SOUTH 03°11'38" WEST 949.84 FEET;

THENCE, NORTH 89°49'25" EAST 652.51 FEET;

THENCE, SOUTH 04°46'44" WEST 2,603.50 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, SOUTH 04°46'44" WEST 200.95 FEET;

THENCE, NORTH 85°12'42" WEST 251.62 FEET;

THENCE, SOUTH 05°01'49" WEST 58.86 FEET;

THENCE, NORTH 85°14'36" WEST 208.32 FEET;

THENCE, NORTH 04°48'43" EAST 259.64 FEET;

THENCE, SOUTH 85°14'50" EAST 460.05 FEET TO SAID POINT OF BEGINNING.

CONTAINING 2.40 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

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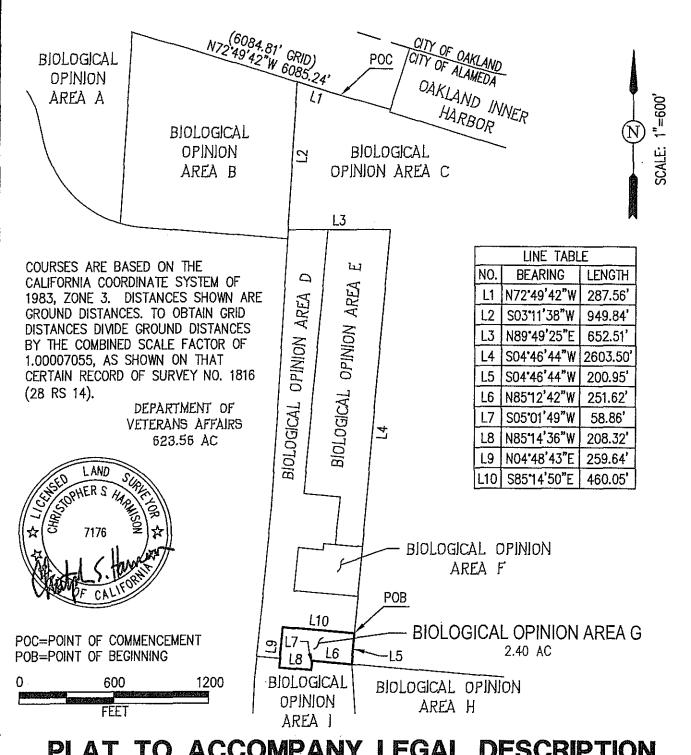
ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

REVIEWED & ACCEPTED



PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA G ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 1 OF 1

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS **SURVEYORS PLANNERS** 6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583 TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-H

Legal Description and Plat Map for Marina (outside numbered zones)

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA H ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF BEGINNING, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 1,753.84 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,603.16 FEET;

THENCE, NORTH 04°53'44" EAST 2,474.70 FEET;

THENCE, NORTH 85°07'14" WEST 153.78 FEET;

THENCE, NORTH 04°43'19" EAST 18.22 FEET;

THENCE, SOUTH 85°02'09" EAST 9.91 FEET;

THENCE, NORTH 04°47'18" EAST 1,623.23 FEET;

THENCE, NORTH 04°25'06" WEST 587.57 FEET;

THENCE, SOUTH 85°12'42" EAST 3,282.60 FEET;

THENCE, SOUTH 39°57'03" EAST 801.69 FEET;

THENCE, SOUTH 04°48'31" WEST 2,221.16 FEET;

THENCE, SOUTH 85°04'05" EAST 667.47 FEET;

THENCE, SOUTH 04°56'19" WEST 640.51 FEET;

THENCE, NORTH 85°10'51" WEST 1,165.79 FEET TO A POINT ON SAID SOUTHEASTERN LINE;

THENCE, ALONG SAID SOUTHEASTERN LINE, NORTH 63°45'01" WEST 1,219.26 FEET TO SAID POINT OF BEGINNING.

CONTAINING 342.72 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

Christopher S. Hannin

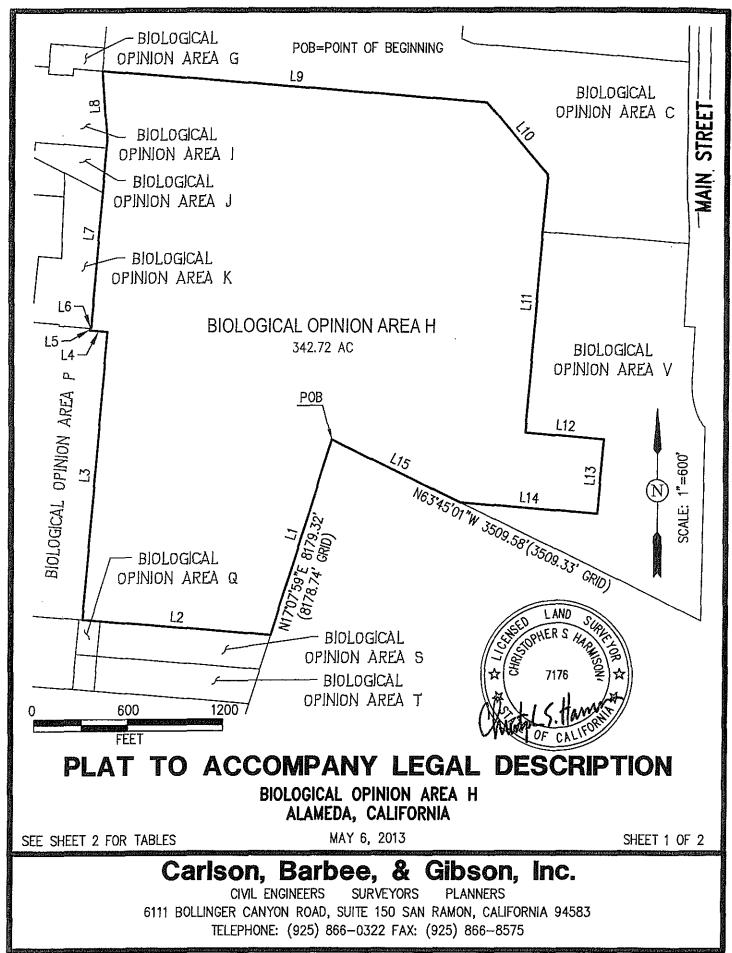
CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

REVIEWED & ACCEPTED

LC CADASTRAL

DATE 5 10 13



| LINE TABLE | | | | |
|------------|-------------|----------|--|--|
| NO. | BEARING | LENGTH | | |
| L1 | S17'07'59"W | 1753.84 | | |
| L2 | N85'06'16"W | 1603.16 | | |
| L3 | N04°53'44"E | 2474.70 | | |
| L4 | N85'07'14"W | 153.78 | | |
| L5 | N04'43'19"E | 18.22' | | |
| L6 | S85'02'09"E | 9.91' | | |
| L7 | N04*47'18"E | 1623.23' | | |
| L8 | N04'25'06"W | 587.57 | | |
| L9 | S8512'42"E | 3282.60' | | |
| L10 | S39'57'03"E | 801.69' | | |
| L11 | S04'48'31"W | 2221.16 | | |
| L12 | S85'04'05"E | 667.47 | | |
| L13 | S04*56'19"W | 640.51 | | |
| L14 | N85"10'51"W | 1165.79 | | |
| L15 | N63'45'01"W | 1219.26 | | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA H ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-I

Legal Description and Plat Map for Marina/Zone 1B

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA I ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 1,753.84 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,603.16 FEET;

THENCE, NORTH 04°53'44" EAST 2,474.70 FEET;

THENCE, NORTH 85°07'14" WEST 153.78 FEET;

THENCE, NORTH 04°43'19" EAST 18.22 FEET;

THENCE, SOUTH 85°02'09" EAST 9.91 FEET;

THENCE, NORTH 04°47'18" EAST 1,551.99 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, NORTH 85°08'24" WEST 609.05 FEET;

THENCE, SOUTH 04°58'09" WEST 129.41 FEET;

THENCE, SOUTH 62°23'56" EAST 290.53 FEET;

THENCE, SOUTH 01°58'45" WEST 202.40 FEET TO A POINT ON THE EASTERN LINE OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS;

THENCE, ALONG SAID EASTERN LINE, THE FOLLOWING THREE (3) COURSES:

1) NORTH 85°25'56" WEST 318.51 FEET (318.49 FEET GRID),

- 2) NORTH 01°46'59" EAST 954.94 FEET (954.87 FEET GRID), AND
- 3) NORTH 05°04'35" EAST 142.30 FEET;

THENCE, LEAVING SAID EASTERN LINE, SOUTH 85°12'42" EAST 145.41 FEET;

THENCE, SOUTH 04°48'43" WEST 58.98 FEET;

THENCE, SOUTH 85°14'36" EAST 208.32 FEET;

THENCE, NORTH 05°01'49" EAST 58.86 FEET;

THENCE, SOUTH 85°12'42" EAST 251.62 FEET;

THENCE, SOUTH 04°25'06" EAST 587.57 FEET;

THENCE, SOUTH 04°47'18" WEST 71.24 FEET TO SAID POINT OF BEGINNING.

CONTAINING 11.55 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

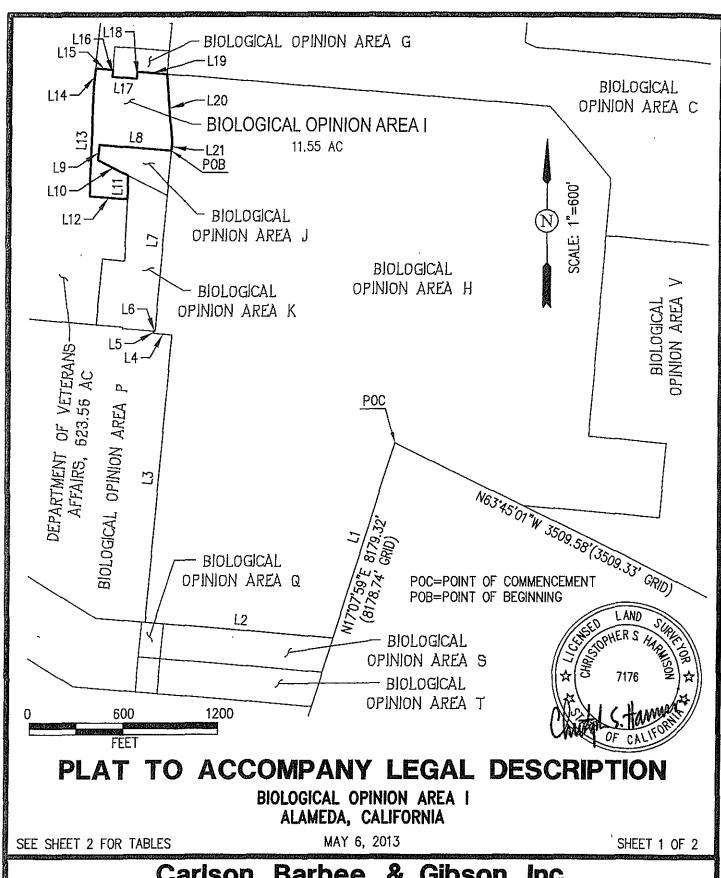
L.S. NO. 7176

REVIEWED & ACCEPTED

CADASTRAL

PAGE 2 OF 2

MAY 6, 2013



Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS **SURVEYORS PLANNERS** 6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583 TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| LINE TABLE | | | | |
|------------|-------------|----------|--|--|
| NO. | BEARING | LENGTH | | |
| L1 | S17'07'59"W | 1753.84 | | |
| L2 | N85'06'16"W | 1603.16 | | |
| L3 | N04'53'44"E | 2474.70' | | |
| L4 | N85'07'14"W | 153.78 | | |
| L5 | N04'43'19"E | 18.22' | | |
| L6 | S85'02'09"E | 9.91' | | |
| L7 | N04'47'18"E | 1551.99 | | |
| L8 | N85'08'24"W | 609.05 | | |
| L9 | S04'58'09"W | 129.41 | | |
| L10 | S62'23'56"E | 290.53 | | |
| L11 | S01'58'45"W | 202.40 | | |
| L12 | N85'25'56"W | 318.51 | | |
| L13 | N01'46'59"E | 954.94 | | |
| L14 | N05'04'35"E | 142.30' | | |
| L15 | S85'12'42"E | 145.41 | | |
| L16 | S04'48'43"W | 58.98 | | |
| L17 | S8514'36"E | 208.32 | | |
| L18 | N05'01'49"E | 58.86' | | |
| L19 | S85'12'42"E | 251.62 | | |
| L20 | S04'25'06"E | 587.57 | | |
| L21 | S04'47'18"W | 71.24 | | |

(318.49' GRID) (954.87' GRID)

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA I ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-J

Legal Description and Plat Map for Marina/Zone 5

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA J ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 1,753.84 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,603.16 FEET;

THENCE, NORTH 04°53'44" EAST 2,474.70 FEET;

THENCE, NORTH 85°07'14" WEST 153.78 FEET;

THENCE, NORTH 04°43'19" EAST 18.22 FEET;

THENCE, SOUTH 85°02'09" EAST 9.91 FEET;

THENCE, NORTH 04°47'18" EAST 1,166.99 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, NORTH 62°23'56" WEST 661.17 FEET;

THENCE, NORTH 04°58'09" EAST 129.41 FEET;

THENCE, SOUTH 85°08'24" EAST 609.05 FEET;

THENCE, SOUTH 04°47'18" WEST 385.00 FEET TO SAID POINT OF BEGINNING.

CONTAINING 3.60 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

<u>Chwi</u>

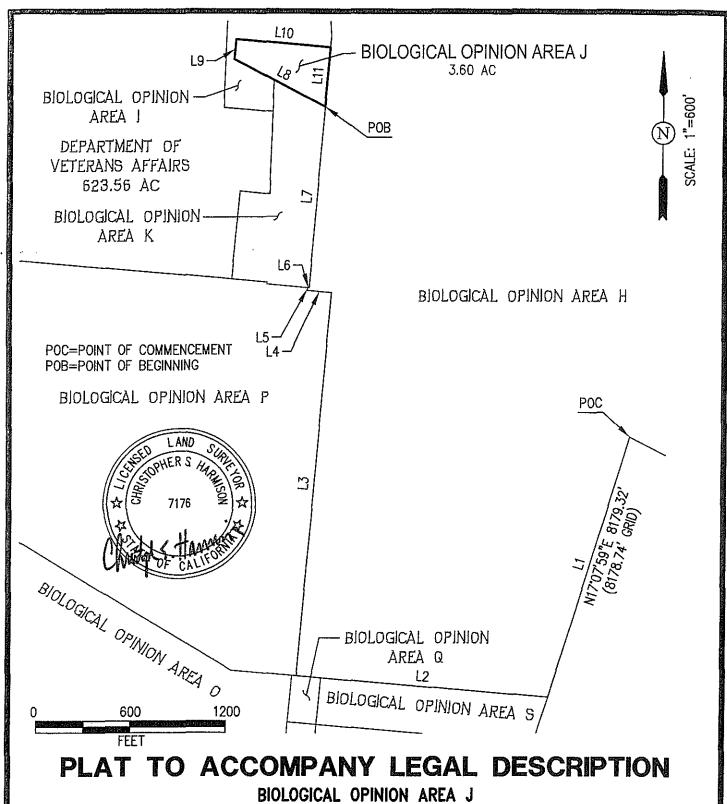
CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

REVIEWED & ACCEPTED

LL CADASTRAL

DATE 5 16 13



BIOLOGICAL OPINION AREA J ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| LINE TABLE | | | | |
|------------|-------------|---------|--|--|
| NO. | BEARING | LENGTH | | |
| L1 | S17'07'59"W | 1753.84 | | |
| L2 | N85°06'16"W | 1603.16 | | |
| L3 | N04*53'44"E | 2474.70 | | |
| L4 | N85°07'14"W | 153.78 | | |
| L5 | N04'43'19"E | 18.22 | | |
| L6 | S85°02'09"E | 9.91 | | |
| L7_ | N04*47'18"E | 1166.99 | | |
| L8 | N62'23'56"W | 661.17 | | |
| L9 | N04*58'09"E | 129.41 | | |
| L10 | S85*08'24"E | 609.05 | | |
| L11 | S04'47'18"W | 385.00' | | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA J ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-K

Legal Description and Plat Map for Marina/Zone 6

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA K ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 1,753.84 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,603.16 FEET;

THENCE, NORTH 04°53'44" EAST 2,474.70 FEET;

THENCE, NORTH 85°07'14" WEST 153.78 FEET;

THENCE, NORTH 04°43'19" EAST 18.22 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, NORTH 85°02'09" WEST 265.00 FEET;

THENCE, NORTH 05°10'10" EAST 14.34 FEET;

THENCE, NORTH 84°58'35" WEST 226.40 FEET TO THE SOUTHEASTERN CORNER OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS;

THENCE, FROM SAID SOUTHEASTERN CORNER, ALONG THE EASTERN LINE OF SAID 623.56 ACRE PARCEL, THE FOLLOWING THREE (3) COURSES:

- 1) NORTH 05°10'10" EAST 566.86 FEET (566.82 FEET GRID),
- 2) SOUTH 84°39'11" EAST 191.61 FEET (191.59 FEET GRID), AND
- 3) NORTH 01°58'45" EAST 528.08 FEET (528.04 FEET GRID);

THENCE, LEAVING SAID EASTERN LINE, NORTH 01°58'45" EAST 202.40 FEET;

THENCE, SOUTH 62°23'56" EAST 370.64 FEET;

THENCE, SOUTH 04°47'18" WEST 1,166.99 FEET;

THENCE, NORTH 85°02'09" WEST 9.91 FEET TO SAID POINT OF BEGINNING.

CONTAINING 11.44 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

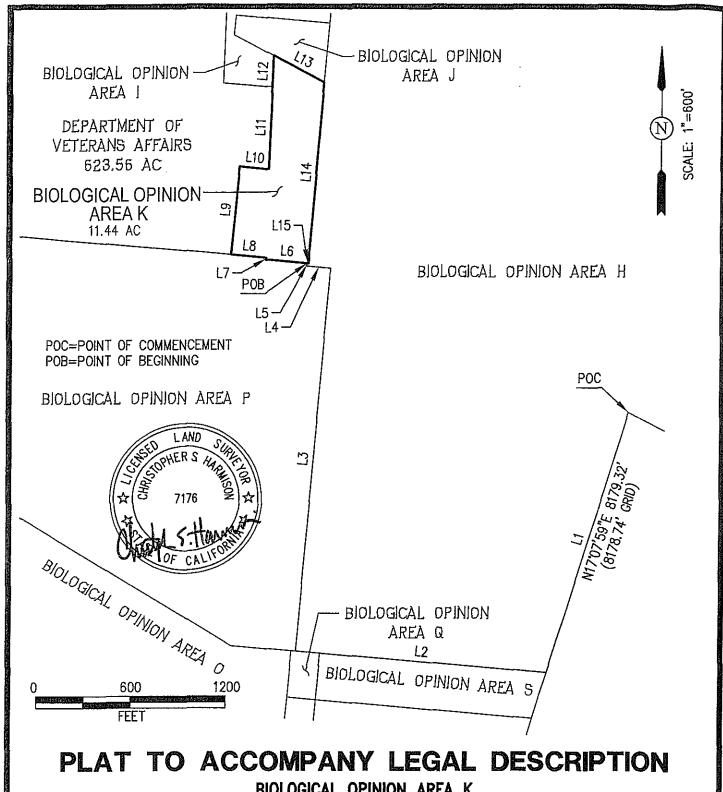
ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

REVIEWED & ACCEPTED



BIOLOGICAL OPINION AREA K ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| LINE TABLE | | |] |
|------------|-------------|---------|----------------|
| NO. | BEARING | LENGTH | |
| L1 | S17'07'59"W | 1753.84 | |
| L2 | N85'06'16"W | 1603.16 | |
| L3 | N04'53'44"E | 2474.70 | |
| L4 | N85'07'14"W | 153.78' | |
| L5 | N04'43'19"E | 18.22' | |
| L6 | N85'02'09"W | 265.00' | |
| L7 | N05'10'10"E | 14.34' | |
| L8 | N84'58'35"W | 226.40' | |
| L9 | N05'10'10"E | 566.86 | (566.82' GRID |
| L10 | S84'39'11"E | 191.61 | (191.59' GRID) |
| L11 | N01°58'45"E | 528.08' | (730.58' GRID |
| L12 | N01°58'45"E | 202.40' | |
| L13 | S62*23'56"E | 370.64 | |
| L14 | S04°47'18"W | 1166.99 | |
| L15 | N85'02'09"W | 9.91' | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA K ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-L

Legal Description and Plat Map for Submerged Parcel ALA-01-EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA L ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, AND THE CITY AND COUNTY OF SAN FRANCISCO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST WESTERLY CORNER OF SAID PARCEL 1;

THENCE, FROM SAID POINT OF BEGINNING, ALONG THE SOUTHWESTERN LINE OF SAID PARCEL 1, THE FOLLOWING FOUR (4) COURSES:

- 1) SOUTH 25°21'07" EAST 2,685.84 FEET (2,685.65 FEET GRID),
- 2) SOUTH 04°48'48" WEST 1,958.98 FEET (1,958.84 FEET GRID),
- 3) SOUTH 11°40'31" EAST 500.04 FEET (500.00 FEET GRID), AND
- 4) SOUTH 85°09'53" EAST 189.58 FEET TO THE SOUTHWESTERN CORNER OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS;

THENCE, FROM SAID SOUTHWESTERN CORNER, ALONG THE WESTERN LINE OF SAID 623.56 ACRE PARCEL, THE FOLLOWING FOUR (4) COURSES:

- 1) NORTH 33°41'48" WEST 399.17 FEET (399.14 FEET GRID),
- 2) NORTH 03°16'12" EAST 406.92 FEET (406.89 FEET GRID),
- 3) NORTH 10°26'13" EAST 2,177.18 FEET (2,177.03 FEET GRID), AND
- 4) NORTH 00°11'58" EAST 534.96 FEET (534.92 FEET GRID) TO THE NORTHWESTERN CORNER OF SAID 623.56 ACRE PARCEL;

THENCE, LEAVING SAID NORTHWESTERN CORNER, NORTH 14°30'13" EAST 6.86 FEET;

THENCE, NORTH 00°00'14" EAST 428.69 FEET;

THENCE, NORTH 00°52'58" WEST 50.63 FEET;

THENCE, NORTH 18°13'30" EAST 43.17 FEET;

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THENCE, NORTH 26°33'54" EAST 20.12 FEET;
 THENCE, NORTH 38°20'44" EAST 42.71 FEET;
THENCE, NORTH 01°21'37" WEST 304.99 FEET;
THENCE, NORTH 14°30'09" WEST 15.49 FEET;
THENCE, NORTH 42°08'42" WEST 5.39 FEET;
THENCE, NORTH 48°12'22" WEST 15.42 FEET;
THENCE, NORTH 02°42'07" EAST 66.82 FEET;
THENCE, NORTH 05°36'21" EAST 39.72 FEET;
THENCE, NORTH 00°57'04" WEST 45.18 FEET;
THENCE, NORTH 00°45'25" EAST 76.45 FEET;
THENCE, NORTH 02°47'36" WEST 54.58 FEET;
THENCE, NORTH 09°27'44" WEST 42.58 FEET;
THENCE, NORTH 13°27'57" WEST 60.89 FEET;
THENCE, NORTH 16°55'44" WEST 85.90 FEET;
THENCE, NORTH 21°42'29" WEST 59.31 FEET;
THENCE, NORTH 33°08'08" WEST 58.31 FEET;
THENCE, NORTH 10°58'28" WEST 34.81 FEET;
THENCE, NORTH 17°51'46" WEST 45.61 FEET;
THENCE, NORTH 31°41'50" WEST 29.75 FEET;
THENCE, NORTH 48°14'21" WEST 48.93 FEET;
THENCE, NORTH 23°03'21" WEST 34.78 FEET;
THENCE, NORTH 14°15'28" WEST 101.02 FEET;
THENCE, NORTH 27°57'59" WEST 31.45 FEET;
THENCE, NORTH 06°32'34" WEST 49.32 FEET;
THENCE, NORTH 00°23'04" EAST 186.31 FEET;
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THENCE, NORTH 33°11'30" EAST 49.10 FEET;

PAGE 2 OF 4 MAY 6, 2013

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THENCE, NORTH 40°08'11" EAST 60.30 FEET;
THENCE, NORTH 43°38'03" EAST 30.26 FEET;
THENCE, NORTH 55°54'34" EAST 34.52 FEET;
THENCE, NORTH 33°02'53" EAST 17.82 FEET;
THENCE, NORTH 16°12'27" EAST 12.61 FEET;
THENCE, NORTH 06°54'35" EAST 22.11 FEET;
THENCE, NORTH 02°17'26" WEST 17.51 FEET;
THENCE, NORTH 19°06'07" EAST 17.11 FEET;
THENCE, NORTH 38°37'28" EAST 22.86 FEET;
THENCE, NORTH 52°27'26" EAST 24.35 FEET;
THENCE, SOUTH 84°13'23" EAST 16.29 FEET;
THENCE, SOUTH 67°48'05" EAST 24.91 FEET;
THENCE, SOUTH 55°03'46" EAST 12.87 FEET;
THENCE, SOUTH 75°24'01" EAST 22.69 FEET;
THENCE, NORTH 65°59'31" EAST 36.99 FEET;
THENCE, NORTH 39°20'16" EAST 34.19 FEET;
THENCE, NORTH 35°35'00" EAST 17.46 FEET;
THENCE, NORTH 22°13'30" EAST 21.10 FEET;
THENCE, NORTH 14°51'30" EAST 30.77 FEET;
THENCE, NORTH 09°11'46" EAST 33.98 FEET;
THENCE, NORTH 08°12'10" EAST 18.92 FEET;
THENCE, NORTH 38°35'13" EAST 10.71 FEET TO A POINT ON THE NORTHERN
LINE OF SAID PARCEL 1;
```

1) NORTH 64°57'02" WEST 391.32 FEET, AND

PAGE 3 OF 4 MAY 6, 2013

THENCE, ALONG SAID NORTHERN LINE, THE FOLLOWING TWO (2) COURSES:

2) SOUTH 48°59'13" WEST 1,663.09 FEET (1,662.98 FEET GRID) TO SAID POINT OF BEGINNING.

CONTAINING 76.69 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

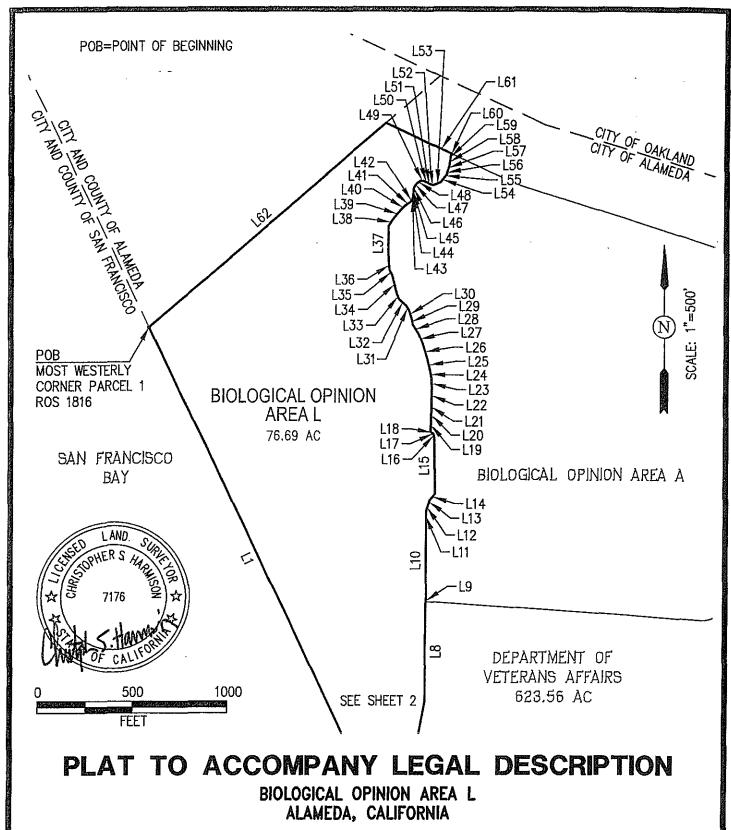
CONTROL NO. 7176 2 A STE OF CALIFORNIA

CHRISTOPHER S. HARMISON, P.L.S. L.S. NO. 7176

REVIEWED & ACCEPTED

CADASTRAL

DATE 5 10 13

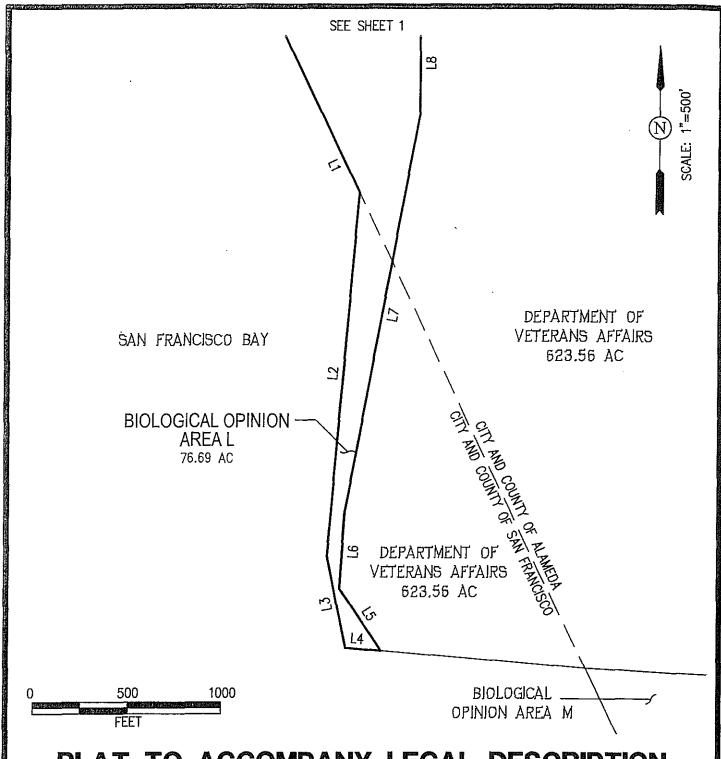


SEE SHEET 3 FOR TABLES

MAY 6, 2013

SHEET 1 OF 3

Carlson, Barbee, & Gibson, Inc.



BIOLOGICAL OPINION AREA L ALAMEDA, CALIFORNIA

SEE SHEET 3 FOR TABLES

MAY 6, 2013

SHEET 2 OF 3

Carlson, Barbee, & Gibson, Inc.

| | LINE TABLE | | |
|-----|-------------|----------|---|
| NO. | BEARING | LENGTH | |
| L1 | S25°21'07"E | 2685.84 | ١ |
| L2 | S04'48'48"W | 1958.98 | ١ |
| L3 | S11°40'31"E | 500.04 | |
| L4 | S85'09'53"E | 189.58 | |
| L5 | N33°41'48"W | 399.17 | Ì |
| L6 | N0316'12"E | 406.92 | ١ |
| L7 | N10°26'13"E | 2177.18' | |
| L8 | N00'11'58"E | 534.96' | |
| L9 | N14'30'13"E | 6.86 | Ì |
| L10 | N00°00'14"E | 428.69' | |
| L11 | N00*52'58"W | 50.63 | |
| L12 | N18"13'30"E | 43.17 | |
| L13 | N26'33'54"E | 20.12 | |
| L14 | N38'20'44"E | 42.71 | |
| L15 | N01*21'37"W | 304.99 | |
| L16 | N14'30'09"W | 15.49' | |
| L17 | N42'08'42"W | 5.39' | |
| L18 | N4812'22"W | 15.42' | |
| L19 | N02°42'07"E | 66.82' | |
| L20 | N05'36'21"E | 39.72 | |
| L21 | N00'57'04"W | 45.18' | |
| L22 | N00'45'25"E | 76.45 | |
| L23 | N02'47'36"W | 54.58 | |
| L24 | N09'27'44"W | 42.58° | |
| L25 | N13'27'57"W | 60.89 | |
| L26 | N16'55'44"W | 85.90' | |
| L27 | N21'42'29"W | 59.31 | |
| L28 | N33'08'08"W | 58.31 | |
| L29 | N10'58'28"W | 34.81 | |
| L30 | N17'51'46"W | 45.61 | |

| | |) |
|---|---------|-----------------|
| | LENGTH | |
| Ε | 2685.84 | (2685.65' GRID |
| W | 1958.98 | (1958.84' GRID) |
| E | 500.04 | (500.00' GRID) |
| E | 189.58 | |
| W | 399.17 | (399.14' GRID) |
| Ε | 406.92 | (406.89' GRID) |
| E | 2177.18 | (2177.03' GRID) |
| E | 534.96 | (534.92' GRID) |
| Ε | 6.86 | |
| E | 428.69' | |
| _ | | 1 |

| NO. | LINE TABLE | - |
|------|-------------------------------|--------|
| INO | | |
| 1.0. | BEARING | LENGTH |
| L31 | N31°41′50″W | 29.75' |
| L32 | N4814'21"W | 48.93 |
| L33 | N23'03'21"W | 34.78 |
| L34 | N14'15'28"W | 101.02 |
| L35 | N27'57'59"W | 31.45 |
| L36 | N06'32'34"W | 49.32' |
| L37 | N00'23'04"E | 186.31 |
| L38 | N33"11'30"E | 49.10' |
| L39 | N40°08'11"E | 60.30 |
| L40 | N43'38'03"E | 30.26 |
| L41 | N55'54'34"E | 34.52 |
| L42 | N33'02'53"E | 17.82 |
| L43 | N16°12'27"E | 12.61' |
| L44 | N06°54'35"E | 22.11 |
| L45 | N0217'26"W | 17.51' |
| L46 | N19'06'07"E | 17.11 |
| L47 | N38'37'28"E | 22.86' |
| L48 | N52 ' 27'26 " E | 24.35' |
| L49 | S8413'23"E | 16.29' |

| LINE TABLE | | |
|------------|-------------|---------|
| NO. | BEARING | LENGTH |
| L50 | S67'48'05"E | 24.91' |
| L51 | S55'03'46"E | 12.87 |
| L52 | S75'24'01"E | 22.69' |
| L53 | N65'59'31"E | 36.99' |
| L54 | N39'20'16"E | 34.19' |
| L55 | N35'35'00"E | 17.46' |
| L56 | N22'13'30"E | 21.10' |
| L57 | N14'51'30"E | 30.77' |
| L58 | N0911'46"E | 33.98' |
| L59 | N08'12'10"E | 18.92' |
| L60 | N38'35'13"E | 10.71 |
| L61 | N64'57'02"W | 391.32' |
| L62 | S48'59'13"W | 1663.09 |

(1662.98' GRID)

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA L ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 3 OF 3

Carlson, Barbee, & Gibson, Inc.

Exhibit 3-M

Legal Description and Plat Map for Submerged Parcel ALA-07-EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA M ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTHWESTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 85°09'53" WEST 1275.51 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF BEGINNING, ALONG SAID SOUTHWESTERN LINE, SOUTH 25°21'07" EAST 1,655.83 FEET;

THENCE, LEAVING SAID SOUTHWESTERN LINE, SOUTH 84°58'35" EAST 2,820.57 FEET TO A POINT ON THE SOUTHERN LINE OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS;

THENCE, ALONG SAID SOUTHERN LINE, THE FOLLOWING FOUR (4) COURSES:

- 1) NORTH 32°14'50" WEST 1,306.73 FEET (1,306.64 FEET GRID),
- 2) NORTH 84°54'12" WEST 1,471.16 FEET (1,471.05 FEET GRID),
- 3) NORTH 55°42'34" WEST 839.27 FEET (839.21 FEET GRID), AND

PAGE 1 OF 2 MAY 6, 2013

NORTH 87°00'26" WEST 663.66 FEET (663.61 FEET GRID) TO SAID POINT OF BEGINNING.

CONTAINING 73.75 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

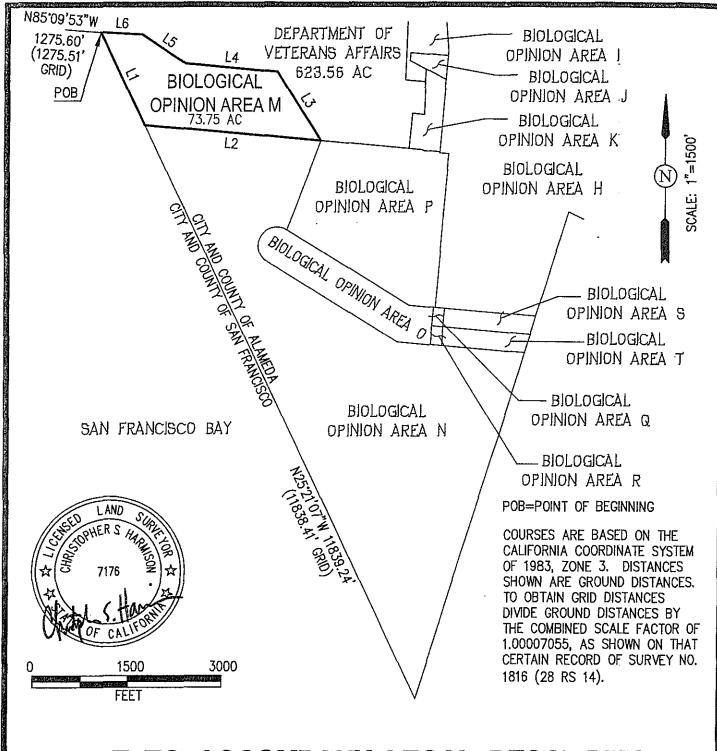
ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

REVIEWED & ACCEPTED _ CADASTRAL



BIOLOGICAL OPINION AREA M ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

| | LINE TABL | E | |
|-----|-------------|---------|-----------------|
| NO. | BEARING | LENGTH | |
| L1 | S25'21'07"E | 1655.83 | |
| L2 | S84*58'35"E | 2820.57 | |
| | | | (1306.64' GRID) |
| L4 | N84'54'12"W | 1471.16 | (1471.05' GRID) |
| L5 | N55'42'34"W | 839.27' | (839.21' GRID) |
| L6 | N87'00'26"W | 663.66' | (663.61' GRID) |

BIOLOGICAL OPINION AREA M ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

Exhibit 3-N

Legal Description and Plat Map for Submerged Parcel ALA-08-EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA N ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHWESTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 85°09'53" WEST 1275.51 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHWESTERN LINE, SOUTH 25°21'07" EAST 1,655.83 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTHWESTERN LINE, SOUTH 84°58'35" EAST 2,820.57 FEET TO A POINT ON THE SOUTHERN LINE OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS;

THENCE, LEAVING SAID SOUTHERN LINE, SOUTH 20°21'57" WEST 1,529.86 FEET:

THENCE, ALONG THE ARC OF A NON-TANGENT 300.00 FEET FOOT RADIUS CURVE TO THE LEFT, FROM WHICH THE CENTER OF SAID CURVE BEARS SOUTH 31°38'53" WEST, THROUGH A CENTRAL ANGLE OF 180°00'00", AN ARC DISTANCE OF 942.48 FEET;

THENCE, SOUTH 58°21'07" EAST 2,445.95 FEET;

THENCE, SOUTH 85°06'16" EAST 2,035.02 FEET TO A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1;

THENCE, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 5,811.52 FEET TO THE SOUTHERN CORNER OF SAID PARCEL 1;

PAGE 1 OF 2 MAY 6, 2013

THENCE, FROM SAID SOUTHERN CORNER, ALONG SAID SOUTHWESTERN LINE, NORTH 25°21'07" WEST 10,183.41 FEET TO SAID POINT OF BEGINNING.

CONTAINING 426.45 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

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END OF DESCRIPTION

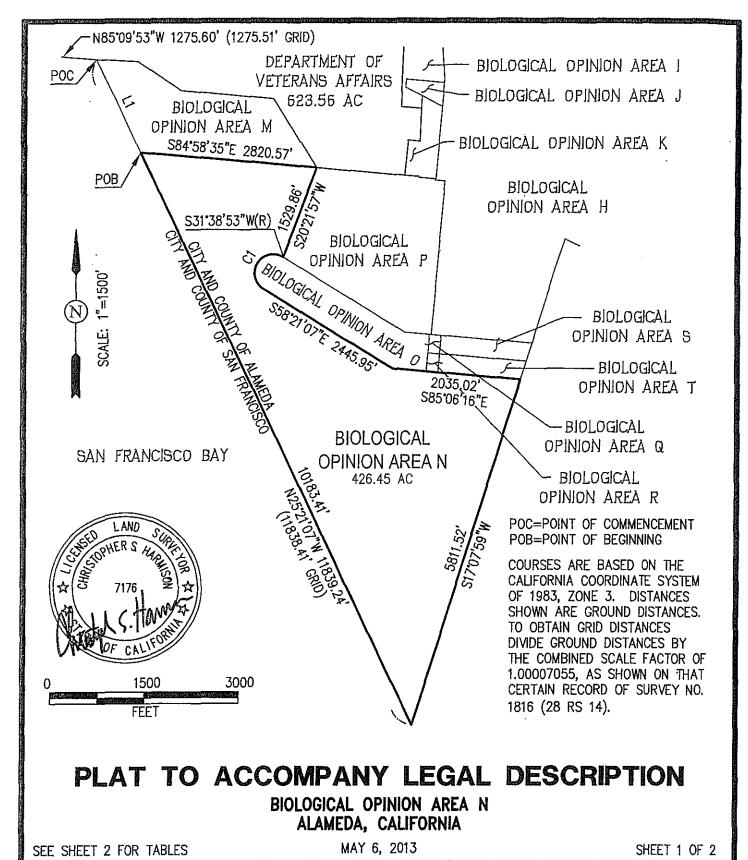
No. 7176 W. No. 71

CHRISTOPHER S. HARMISON, P.L.S. L.S. NO. 7176

REVIEWED & ACCEPTED

CADASTRAL

DATE 5 10 13



Carlson, Barbee, & Gibson, Inc.

| LINE TABLE | | |
|------------|-------------|---------|
| NO. | BEARING | LENGTH |
| L1 | S25*21'07"E | 1655.83 |

| CURVE TABLE | | | | |
|-------------|-----|--------|------------|--------|
| | NO. | RADIUS | DELTA | LENGTH |
| | C1 | 300.00 | 180'00'00" | 942.48 |

BIOLOGICAL OPINION AREA N ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

Exhibit 3-O

Legal Description and Plat Map for Submerged Parcel ALA-09-EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA O ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 1,753.84 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,633.16 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, SOUTH 04°53'44" WEST 600.00 FEET;

THENCE, NORTH 85°06'16" WEST 532.00 FEET;

THENCE, NORTH 58°21'07" WEST 2,445.95 FEET;

THENCE, ALONG THE ARC OF A TANGENT 300.00 FOOT RADIUS CURVE TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 180°00'00", AN ARC DISTANCE OF 942.48 FEET;

THENCE, SOUTH 58°21'07" EAST 2,303.27 FEET;

PAGE 1 OF 2 MAY 6, 2013

THENCE, SOUTH 85°06'16" EAST 389.32 FEET TO SAID POINT OF BEGINNING.

CONTAINING 42.30 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

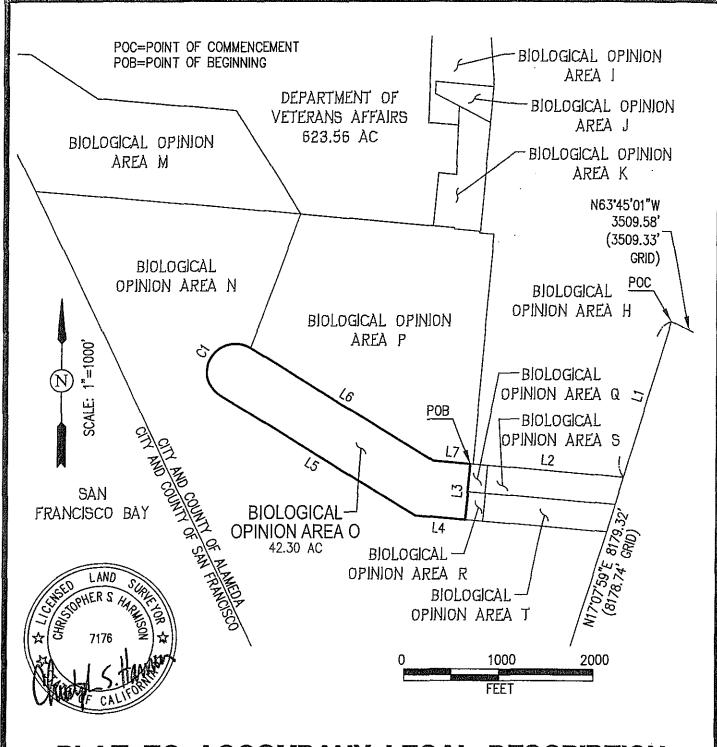
ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

REVIEWED & ACCEPTED



BIOLOGICAL OPINION AREA O ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

| | LINE TABLE | | |
|-----|-------------|---------|--|
| N0. | BEARING | LENGTH | |
| L1 | S17'07'59"W | 1753.84 | |
| L2 | N85'06'16"W | 1633.16 | |
| L3 | S04'53'44"W | 600.00' | |
| L4 | N85'06'16"W | 532.00' | |
| L5 | N58'21'07"W | 2445.95 | |
| L6 | S58'21'07"E | 2303.27 | |
| L7 | S85'06'16"E | 389.32 | |

| CURVE TABLE | | | |
|-------------------------|--------|------------|--------|
| NO. RADIUS DELTA LENGTI | | LENGTH | |
| C1 | 300.00 | 180'00'00" | 942.48 |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA O ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS **SURVEYORS PLANNERS** 6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-P

Legal Description and Plat Map for Submerged Parcel ALA-10-EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA P ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHWESTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE EASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 85°09'53" WEST 1275.51 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHWESTERN LINE, SOUTH 25°21'07" EAST 1,655.83 FEET;

THENCE, LEAVING SAID SOUTHWESTERN LINE, SOUTH 84°58'35" EAST 2,820.57 FEET TO A POINT ON THE SOUTHERN LINE OF THE 623.56 ACRE PARCEL IDENTIFIED AS LANDS TO BE TRANSFERRED FROM USA THROUGH THE DEPARTMENT OF THE NAVY (DOD) TO THE DEPARTMENT OF VETERANS AFFAIRS, SAID POINT BEING THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTHERN LINE, SOUTH 20°21'57" WEST 1,529.86 FEET;

THENCE, SOUTH 58°21'07" EAST 2,303.27 FEET;

THENCE, SOUTH 85°06'16" EAST 419.32 FEET;

THENCE, NORTH 04°53'44" EAST 2,474.70 FEET;

THENCE, NORTH 85°07'14" WEST 153.78 FEET;

THENCE, NORTH 04°43'19" EAST 18.22 FEET;

THENCE, NORTH 85°02'09" WEST 265.00 FEET;

THENCE, NORTH 05°10'10" EAST 14.34 FEET;

THENCE, NORTH 84°58'35" WEST 226.40 FEET TO THE SOUTHEASTERN CORNER OF SAID 623.56 ACRE;

PAGE 1 OF 2 MAY 6, 2013

THENCE, FROM SAID SOUTHEASTERN CORNER, ALONG SAID SOUTHERN LINE, NORTH 84°58'35" WEST 1,422.81 FEET (1,422.71 FEET GRID) TO SAID POINT OF BEGINNING.

CONTAINING 111.05 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

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END OF DESCRIPTION

CHRIS.

CHRISTOPHER S. HARMISON, P.L.S.

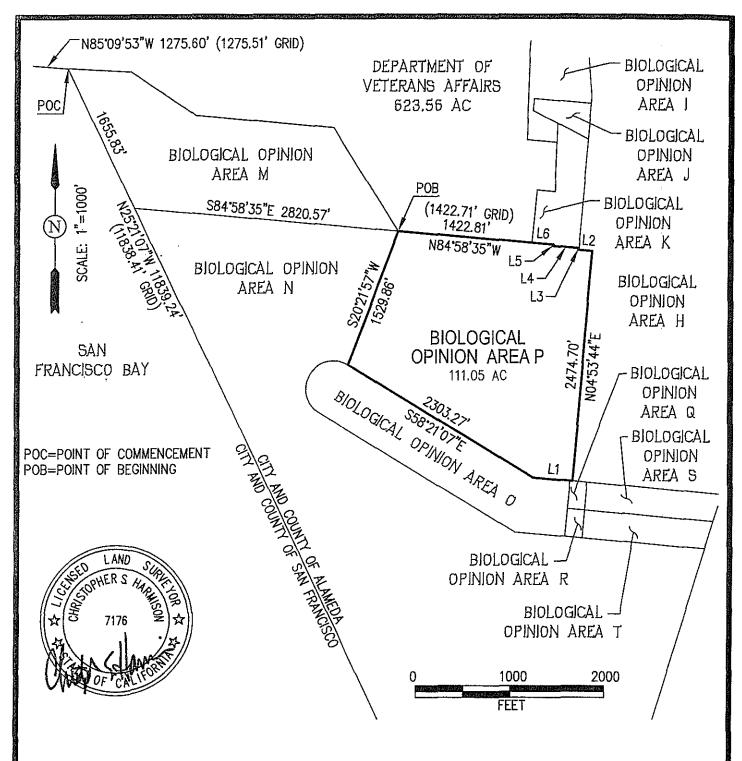
L.S. NO. 7176

REVIEWED & ACCEPTED

LL CADASTRAL

DATE 5/10/13

PAGE 2 OF 2



BIOLOGICAL OPINION AREA P ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

| | LINE TABLE | | |
|-----|-------------|---------|--|
| NO. | BEARING | LENGTH | |
| L1 | S85'06'16"E | 419.32 | |
| L2 | N85'07'14"W | 153.78 | |
| L3 | N04'43'19"E | 18.22 | |
| L4 | N85'02'09"W | 265.00 | |
| L5 | N0540'10"E | 14.34 | |
| L6 | N84*58'35"W | 226.40' | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA P ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS

SURVEYORS

6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-Q

Legal Description and Plat Map for Submerged Parcel ALA-11EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA Q ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 1,753.84 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,448.16 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, SOUTH 04°53'44" WEST 300.00 FEET;

THENCE, NORTH 85°06'16" WEST 185.00 FEET;

THENCE, NORTH 04°53'44" EAST 300.00 FEET;

PAGE 1 OF 2 MAY 6, 2013

THENCE, SOUTH 85°06'16" EAST 185.00 FEET TO SAID POINT OF BEGINNING.

CONTAINING 1.27 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

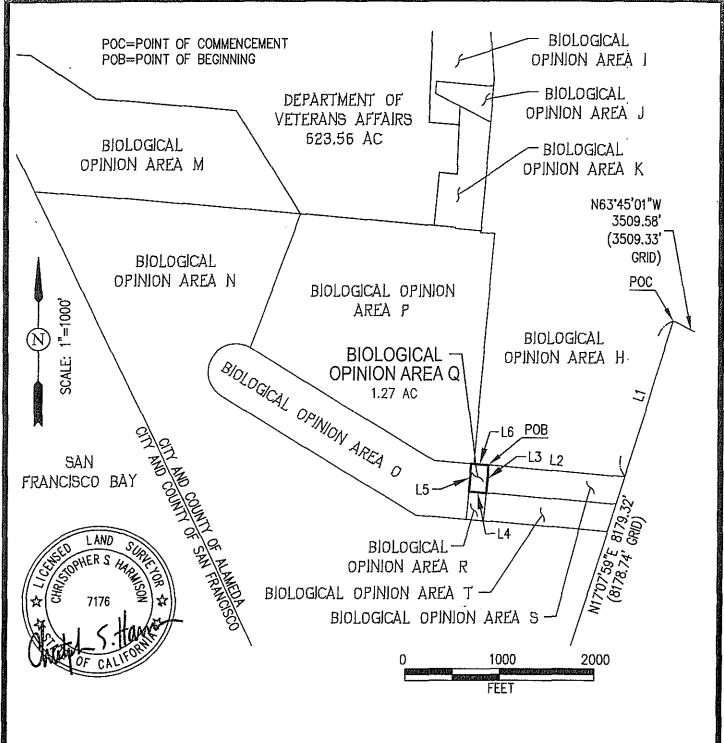
ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

EVIEWED & ACCEPTED

L.S. NO. 7176



BIOLOGICAL OPINION AREA Q ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

| | LINE TABLE | | |
|-----|-------------|---------|--|
| NO. | BEARING | LEGNTH | |
| L1 | S17'07'59"W | 1753.84 | |
| L2 | N85'06'16"W | 1448.16 | |
| L3 | S04'53'44"W | 300.00' | |
| L4 | N85'06'16"W | 185.00' | |
| L5 | N04'53'44"E | 300.00 | |
| L6 | S85'06'16"E | 185.00' | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA Q ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

Exhibit 3-R

Legal Description and Plat Map for Submerged Parcel ALA-12-EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA R ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 2,060.82 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,383.09 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, SOUTH 04°53'44" WEST 300.00 FEET;

THENCE, NORTH 85°06'16" WEST 185.00 FEET;

THENCE, NORTH 04°53'44" EAST 300.00 FEET;

PAGE 1 OF 2 MAY 6, 2013

THENCE, SOUTH 85°06'16" EAST 185.00 FEET TO SAID POINT OF BEGINNING.

CONTAINING 1.27 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

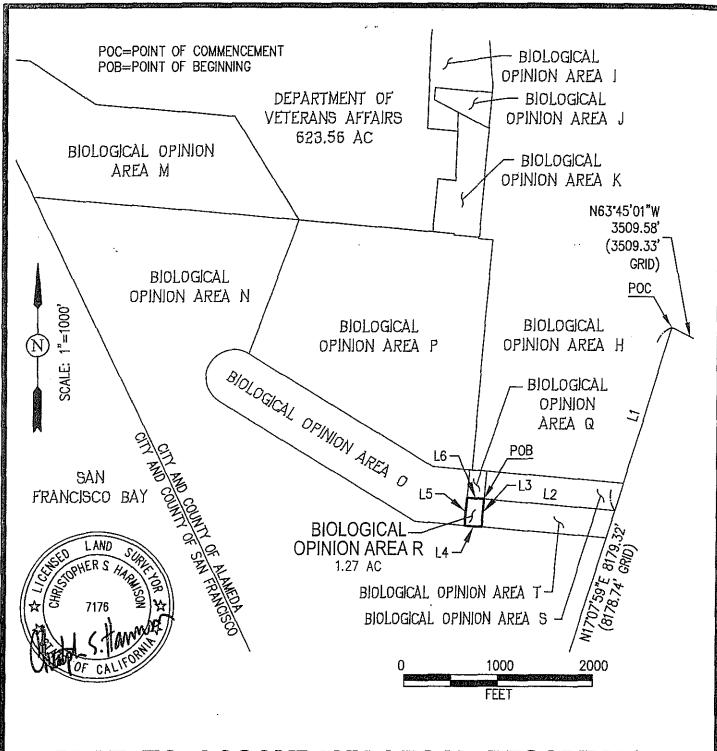
END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

REVIEWED & ACCEPTED

L.S. NO. 7176

PAGE 2 OF 2



BIOLOGICAL OPINION AREA R ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS

SURVEYORS

PLANNERS

6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| | LINE TABLE | | |
|-----|-------------|---------|--|
| NO. | BEARING | LENGTH | |
| L1 | S17'07'59"W | 2060.82 | |
| L2 | N85'06'16"W | 1383.09 | |
| L3 | S04'53'44"W | 300.00' | |
| L4 | N85°06'16"W | 185.00' | |
| L5 | N04'53'44"E | 300.00' | |
| L6 | S85'06'16"E | 185.00 | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA R ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

Exhibit 3-S

Legal Description and Plat Map for Submerged Parcel ALA-14-EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA S ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 1,753.84 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, CONTINUING ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 306.98 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,383.09 FEET;

THENCE, NORTH 04°53'44" EAST 300.00 FEET;

PAGE 1 OF 2 MAY 6, 2013

THENCE, SOUTH 85°06'16" EAST 1,448.16 FEET TO SAID POINT OF BEGINNING.

CONTAINING 9.75 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

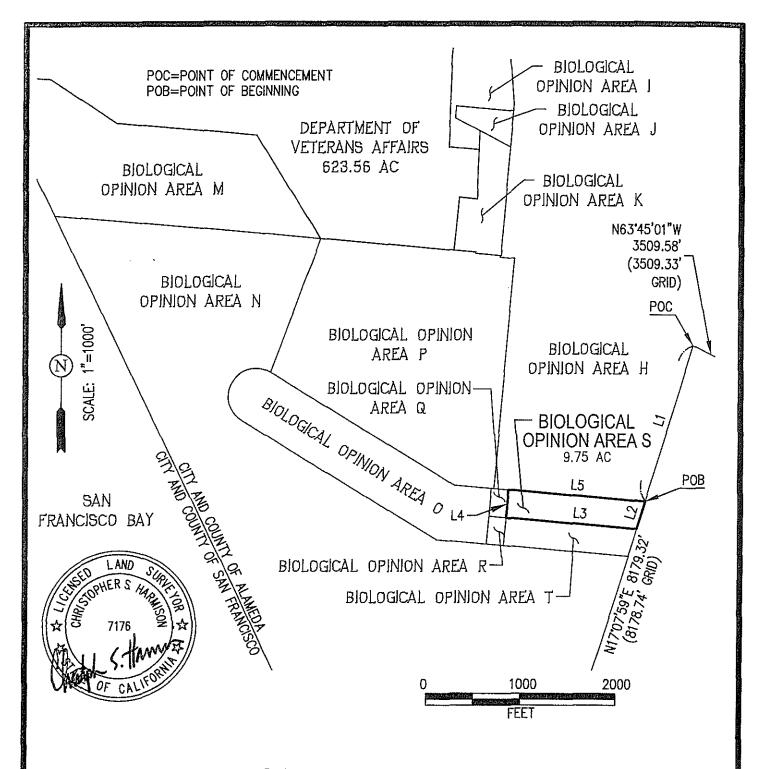
ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

REVIEWED & ACCEPTED _ CADASTRAL



PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA S ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| | LINE TABLE | | | | | |
|---|------------|-------------|---------|--|--|--|
| N | 10. | BEARING | LENGTH | | | |
| | | S17'07'59"W | 1753.84 | | | |
| | 2 | S17'07'59"W | 306.98 | | | |
| | .3_ | N85*06'16"W | 1383.09 | | | |
| | 4 | N04'53'44"E | 300.00' | | | |
| | 5_ | S85°06'16"E | 1448.16 | | | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES. DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA S ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583

TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-T

Legal Description and Plat Map for Submerged Parcel ALA-15-EDC

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA T ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE SOUTHEASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE NORTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 17°07'59" EAST 8,178.74 FEET", ON SHEET 6 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF COMMENCEMENT, ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 2060.82 FEET TO THE POINT OF BEGINNING FOR THIS DESCRIPTION;

THENCE, FROM SAID POINT OF BEGINNING, CONTINUING ALONG SAID SOUTHEASTERN LINE, SOUTH 17°07'59" WEST 306.98 FEET;

THENCE, LEAVING SAID SOUTHEASTERN LINE, NORTH 85°06'16" WEST 1,318.02 FEET;

THENCE, NORTH 04°53'44" EAST 300.00 FEET;

PAGE 1 OF 2 MAY 6, 2013

THENCE, SOUTH 85°06'16" EAST 1,383.09 FEET TO SAID POINT OF BEGINNING.

CONTAINING 9.30 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

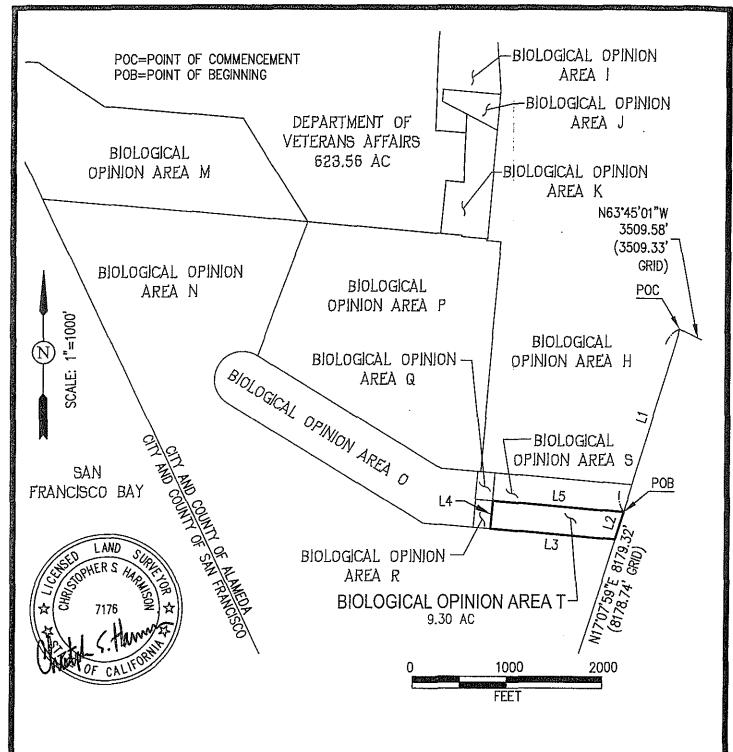
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CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

DATE 5 10/13

REVIEWED & ACCEPTED



PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA T ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| | LINE TABLE | | | | | |
|---|------------|-------------|---------|--|--|--|
| | NO. | BEARING | LENGTH | | | |
| | L1 | S17'07'59"W | 2060.82 | | | |
| | L2 | S17'07'59"W | 306.98 | | | |
| | L3 | N85'06'16"W | 1318.02 | | | |
| | L4 | N04'53'44"E | 300.00 | | | |
| ļ | L5 | S85'06'16"E | 1383.09 | | | |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA T ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS

6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583 TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-U

Legal Description and Plat Map for Main Street Neighborhood

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA U ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE EASTERN LINE OF SAID PARCEL 1, SAID POINT BEING THE SOUTHERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 01°05'59" EAST 1,003.40 FEET", ON SHEET 7 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF BEGINNING, ALONG SAID EASTERN LINE, THE FOLLOWING FOUR (4) COURSES:

- 1) ALONG THE ARC OF A NON-TANGENT 700.00 FOOT (699.95 FOOT GRID) RADIUS CURVE TO THE RIGHT, FROM WHICH THE CENTER OF SAID CURVE BEARS SOUTH 16°24'13" WEST, THROUGH A CENTRAL ANGLE OF 45°54'32", AN ARC DISTANCE OF 560.88 FEET (560.84 FEET GRID),
- 2) SOUTH 27°41'15" EAST 580.60 FEET (580.56 FEET GRID),
- 3) ALONG THE ARC OF A TANGENT 960.00 FOOT (959.93 FOOT GRID) RADIUS CURVE TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 28°15'00", AN ARC DISTANCE OF 473.33 FEET (473.30 FEET GRID), AND
- 4) SOUTH 00°33'45" WEST 1,201.56 FEET;

THENCE, LEAVING SAID EASTERN LINE, NORTH 85°07'05" WEST 1,840.11 FEET;

THENCE, NORTH 66°27'32" WEST 109.84 FEET;

THENCE, NORTH 04°43'03" EAST 192.35 FEET;

THENCE, SOUTH 85°21'06" EAST 266.37 FEET;

THENCE, NORTH 05°04'03" EAST 646.79 FEET;

THENCE, ALONG THE ARC OF A NON-TANGENT 325.00 FOOT RADIUS CURVE TO THE LEFT, FROM WHICH THE CENTER OF SAID CURVE BEARS SOUTH 48°52'22" WEST, THROUGH A CENTRAL ANGLE OF 44°02'49", AN ARC DISTANCE OF 249.85 FEET;

THENCE, NORTH 85°10'27" WEST 47.08 FEET;

PAGE 1 OF 3 MAY 6, 2013

THENCE, NORTH 04°49'33" EAST 1,674.31 FEET;

THENCE, NORTH 89°26'59" EAST 39.46 FEET;

THENCE, NORTH 00°14'43" EAST 6.43 FEET;

THENCE, NORTH 82°45'12" EAST 272.99 FEET;

THENCE, NORTH 80°32'13" EAST 132.62 FEET;

THENCE, NORTH 54°11'04" EAST 47.04 FEET;

THENCE, NORTH 03°10'19" EAST 47.43 FEET;

THENCE, NORTH 49°27'13" EAST 38.74 FEET;

THENCE, SOUTH 89°11'24" EAST 9.97 FEET;

THENCE, SOUTH 15°09'09" EAST 60.96 FEET;

THENCE, SOUTH 86°37'43" EAST 53.55 FEET;

THENCE, NORTH 71°44'00" EAST 132.02 FEET;

THENCE, NORTH 68°22'22" EAST 76.95 FEET;

THENCE, NORTH 61°54'08" EAST 90.34 FEET;

THENCE, NORTH 80°11'56" EAST 34.71 FEET;

THENCE, SOUTH 37°50'57" EAST 59.31 FEET TO A POINT ON SAID EASTERN LINE OF PARCEL 1;

PAGE 2 OF 3 MAY 6, 2013

THENCE, ALONG SAID EASTERN LINE, SOUTH 01°05'59" WEST 452.32 FEET TO SAID POINT OF BEGINNING.

CONTAINING 99.69 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

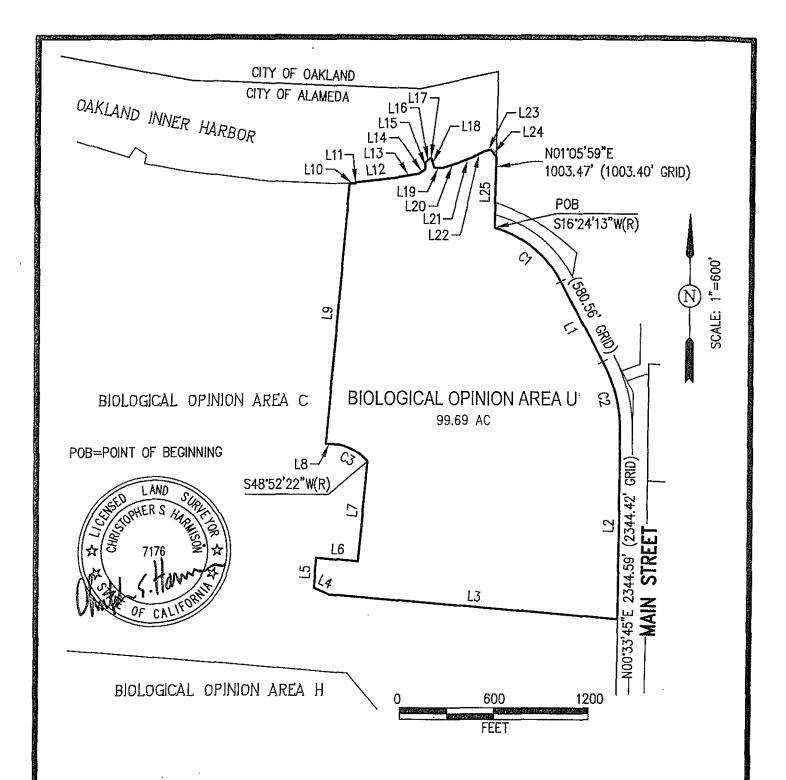
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END OF DESCRIPTION

CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

PAGE 3 OF 3



PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA U ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| | LINE TABLE | | | | | |
|-----|-------------|---------|--|--|--|--|
| NO. | BEARING | LENGTH | | | | |
| L1 | S27'41'15"E | 580.60 | | | | |
| L2 | S00'33'45"W | 1201.56 | | | | |
| L3 | N85'07'05"W | 1840.11 | | | | |
| L4 | N66°27'32"W | 109.84 | | | | |
| L5 | N04'43'03"E | 192.35 | | | | |
| L6 | S85°21'06"E | 266.37 | | | | |
| L7 | N05°04'03"E | 646.79 | | | | |
| L8 | N85'10'27"W | 47.08' | | | | |
| L9 | N04*49'33"E | 1674.31 | | | | |
| L10 | N89'26'59"E | 39.46' | | | | |
| L11 | N00'14'43"E | 6.43' | | | | |
| L12 | N82*45'12"E | 272.99 | | | | |
| L13 | N80'32'13"E | 132.62' | | | | |
| L14 | N54'11'04"E | 47.04 | | | | |
| L15 | N03'10'19"E | 47.43 | | | | |
| L16 | N49'27'13"E | 38.74 | | | | |
| L17 | S89'11'24"E | 9.97' | | | | |
| L18 | S15'09'09"E | 60.96 | | | | |
| L19 | S86*37'43"E | 53.55 | | | | |
| L20 | N71'44'00"E | 132.02 | | | | |
| L21 | N68'22'22"E | 76.95 | | | | |
| L22 | N61'54'08"E | 90.34 | | | | |
| L23 | N80'11'56"E | 34.71 | | | | |
| L24 | S37'50'57"E | 59.31' | | | | |
| L25 | S01'05'59"W | 452.32' | | | | |

| | CUR | | | |
|-----|---------|-----------|---------|-----------|
| NO. | RADIUS | DELTA | LENGTH | |
| C1 | 700.00' | 45'54'32" | 560.88 | (R=699.95 |
| C2 | 960.00' | 2815'00" | 473.33' | (R=959.93 |
| C3 | 325.00' | 44'02'49" | 249.85 | |

(R=699.95', L=560.84' GRID) (R=959.93'. L=473.30' GRID)

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA U ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 3-V

Legal Description and Plat Map for Inner Harbor

LEGAL DESCRIPTION BIOLOGICAL OPINION AREA V ALAMEDA, CALIFORNIA

REAL PROPERTY, SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF ALAMEDA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING A PORTION OF PARCEL 1, AS SAID PARCEL 1 IS SHOWN AND SO DESIGNATED ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEASTERN CORNER OF SAID PARCEL 1, SAID POINT BEING THE SOUTHEASTERN TERMINUS OF THAT CERTAIN COURSE DESIGNATED AS, "NORTH 63°45'01" WEST 3,509.33 FEET", ON SHEET 12 OF 12 OF SAID RECORD OF SURVEY;

THENCE, FROM SAID POINT OF BEGINNING, ALONG THE SOUTHERN LINE OF SAID PARCEL 1, NORTH 63°45'01" WEST 2,290.32 FEET;

THENCE, LEAVING SAID SOUTHERN LINE, SOUTH 85°10'51" EAST 1,165.79 FEET;

THENCE, NORTH 04°56'19" EAST 640.51 FEET;

THENCE, NORTH 85°04'05" WEST 667.47 FEET;

THENCE, NORTH 04°48'31" EAST 1,726.45 FEET;

THENCE, SOUTH 85°36'40" EAST 1,251.48 FEET TO A POINT ON THE EASTERN LINE OF SAID PARCEL 1;

THENCE, ALONG SAID EASTERN LINE, THE FOLLOWING SIX (6) COURSES:

- 1) SOUTH 03°08'24" WEST 712.45 FEET,
- 2) SOUTH 86°51'36" EAST 95.00 FEET (94.99 FEET GRID),
- 3) SOUTH 03°08'24" WEST 451.56 FEET (451.53 FEET GRID),
- 4) ALONG THE ARC OF A TANGENT 711.34 FOOT (711.29 FEET GRID) RADIUS CURVE TO THE LEFT, THROUGH A CENTRAL ANGLE OF 32°21'46", AN ARC DISTANCE OF 401.79 FEET (401.76 FEET GRID),
- 5) SOUTH 50°51'40" EAST 27.30 FEET (27.30 FEET GRID), AND

6) SOUTH 01°05'59" WEST 1,664.52 FEET (1,664.52 FEET GRID) TO SAID POINT OF BEGINNING.

CONTAINING 86.98 ACRES OF LAND, MORE OR LESS.

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816, FILED JUNE 6, 2003, IN BOOK 28 OF RECORDS OF SURVEY AT PAGE 14, ALAMEDA COUNTY RECORDS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

ALL PARCELS SHOWN HEREON ARE INTENDED TO LIE COINCIDENT TO ONE ANOTHER WITH NO GAPS OR OVERLAPS CREATED BY THIS DOCUMENT.

END OF DESCRIPTION

LAND SURIER S. HARINGO AND TOP OF CALIFORNIA OF CALIFORNIA

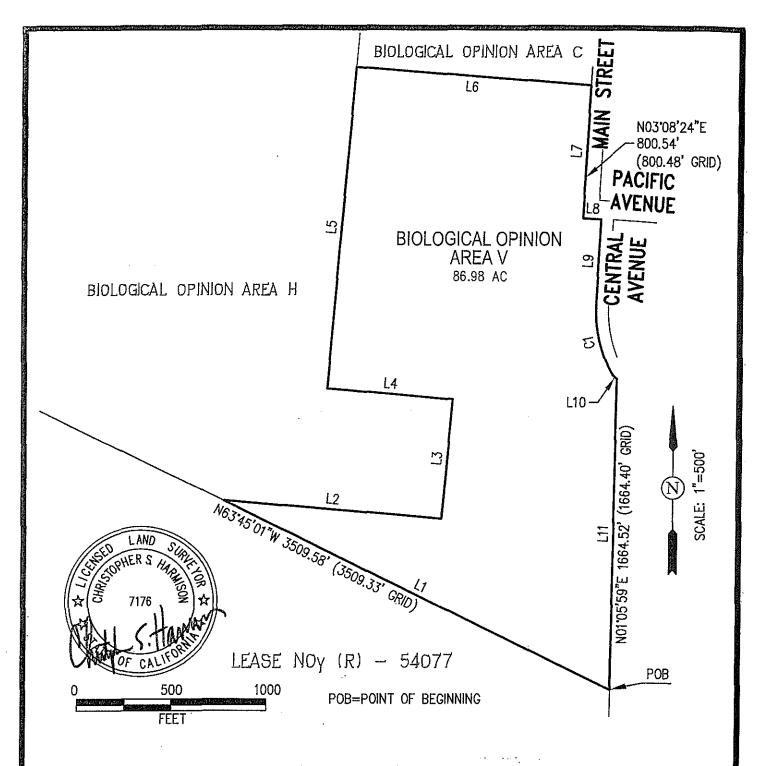
CHRISTOPHER S. HARMISON, P.L.S.

L.S. NO. 7176

REVIEWED & ACCEPTED

CADASTRAL

DATE 5/10/13



PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA V ALAMEDA, CALIFORNIA

SEE SHEET 2 FOR TABLES

MAY 6, 2013

SHEET 1 OF 2

Carlson, Barbee, & Gibson, Inc.

CIVIL ENGINEERS SURVEYORS PLANNERS
6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583
TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

| | LINE TABL | ; | |
|-----|-------------|---------|----------------|
| NO. | BEARING | LENGTH | |
| L1 | N63'45'01"W | 2290.32 | |
| L2 | S85'10'51"E | 1165.79 | |
| L3 | N04*56'19"E | 640.51 | |
| L4 | N85'04'05"W | 667.47' | |
| L5 | N04'48'31"E | 1726.45 | |
| L6 | S85'36'40"E | 1251.48 | |
| L7 | S03'08'24"W | 712.45 | ŕ |
| L8 | S86"51'36"E | 95.00' | (94.99' GRID) |
| L9 | S03'08'24"W | 451.56' | (451.53' GRID) |
| L10 | S50'51'40"E | 27.30' | (27.30' GRID) |
| L11 | S01*05'59"W | 1664.52 | |

| CURVE TABLE | | | | | | |
|-------------|--------|-----------|--------|------------|----------|-------|
| | | DELTA | | | | |
| C1 | 711.34 | 32'21'46" | 401.79 | (R=711.29' | L=401.76 | GRID) |

COURSES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3. DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN GRID DISTANCES DIVIDE GROUND DISTANCES BY THE COMBINED SCALE FACTOR OF 1.00007055, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NO. 1816 (28 RS 14).

PLAT TO ACCOMPANY LEGAL DESCRIPTION

BIOLOGICAL OPINION AREA V ALAMEDA, CALIFORNIA

MAY 6, 2013

SHEET 2 OF 2

Carlson, Barbee, & Gibson, Inc.

SURVEYORS CIVIL ENGINEERS **PLANNERS**

6111 BOLLINGER CANYON ROAD, SUITE 150 SAN RAMON, CALIFORNIA 94583 TELEPHONE: (925) 866-0322 FAX: (925) 866-8575

Exhibit 4

Predator Management Plan



Alameda Point Predator Management Plan for Lands West of Main Street

Project # 3333-03

Prepared for:

City of Alameda

Prepared by:

H. T. Harvey & Associates

5 December 2012

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List of Contributors:

Steve Rottenborn, Ph.D., Principal, Senior Wildlife Ecologist Scott Demers, M.S., Senior Wildlife Ecologist

Section 1.0 Introduction and Background

1.1 Introduction

This predator management plan (PMP) describes the activities to be undertaken by the City of Alameda (City) to protect the state and federally endangered California least term (Sterna antillarum brown) from predators supported by or originating from City-controlled lands west of Main Street on Alameda Point. This PMP is required as a condition of the Biological Opinion (BO) issued by the U.S. Fish and Wildlife Service (USFWS) for the U.S. Navy's conveyance of lands on the former Naval Air Station Alameda to the City and the Department of Veterans Affairs (VA). The BO requires the City to fund predator management activities totaling an average of at least 20 hours per week between 25 March and 7 August each year. The BO also contains a number of avoidance and minimization measures directly or indirectly related to predation, such as restrictions on vegetation that may be used as cover or nesting sites by predators, restrictions on height of structures that may serve as nesting sites or hunting perches by predators, and restrictions on increases in lighting, which could facilitate predation by nocturnal predators. However, this PMP focuses solely on predator management activities to be performed between 25 March and 7 August.

1.2 California Least Terns at Alameda Point

At the time of listing under the federal Endangered Species Act in 1970, there were an estimated 300 pairs of California least terms distributed among 14 nesting sites in San Diego and Orange Counties. Bair Island in San Mateo County was the only known breeding site within the San Francisco Bay (Bay) and it was the only known colony north of Orange County (Craig 1971). In 1976, a colony of 20 pairs was discovered at the Naval Air Station (NAS) Alameda, a U.S. Navy base in the City of Alameda. Although there was potential for collision with aircraft and vehicles, access was limited to few people and military activities limited mammalian predator access to the colony; as a result, the number of pairs more than doubled to 45 pairs producing an estimated 20 fledglings in 1977 (Atwood et al. 1977). Early management of the NAS site included installation of a barrier between the nests and the aircraft runways, elimination of vehicle traffic within the colony site, and placement of cement blocks that provided shelter for chicks. In 1978, the colony again nearly doubled to an estimated 80 pairs (Atwood et al. 1979). During the 1980s, a management program was implemented at NAS and predation on terns was reduced. Trapping and relocation of American kestrels (Falco sparvarius) substantially reduced avian predation (Collins 1984). Trapping of feral cats (Felis domesticus) and the installation of electric fencing around the colony essentially eliminated mammalian predation (Massey 1989). The management efforts resulted in an increase in colony size at Alameda Point, with 208 pairs in 1996 (Caffrey 1998), 301 pairs in 2003 (Patton 2003), and 424-495 in 2005 (Marschalek 2006). The number of pairs breeding have declined more recently, but have stabilized to around 300 breeding pairs each year for the past five years, with 355-358 pairs in 2007, 323 in 2008, 314-318 in 2009, 287-302 in 2010, and 304-329 in 2011 (Marschalek 2008-2012).

The NAS Alameda least tern colony is currently managed by the USFWS and the colony continues to be productive and is considered an important "source" colony in the Bay (Elliott et al. 2007). Management activities that occur on the colony site include the maintenance of a chain-link fence around the colony and the placement of substrate and materials that provide cover for tern chicks. The substrate includes pea gravel, sand, and oyster shells, and cover materials include randomly placed driftwood, clay tiles, and A-frame structures (Elliot et al. 2007). To facilitate mapping of nest locations, cinder blocks were placed in a 20-meter grid in the colony. California least terms typically occur at Alameda Point in mid-April through mid-August. For example, in 2012, the earliest least term arrived on 17 April and the last term was observed on 11 August (S. Euing pers. comm.). The mean nest initiation date is tends to be in late May or early June, with the peak number of nests occurring in early June (Elliot et al. 2007).

1.3 Alameda Point Land Conveyance

As part of the process to close and realign military bases, NAS Alameda (now referred to as "Alameda Point") was closed in 1997. The Navy has initiated the disposal process for surplus lands at Alameda Point, including the transfer of lands to the VA and conveyance to the City of Alameda. The Navy will transfer approximately 623.2 acres (ac) of property at Alameda Point to the VA in a federal property transfer, with approximately 112.4 ac of that property planned for development. The VA plans to construct an outpatient clinic, a cemetery, and an office for conservation-related educational and interpretive opportunities. The VA will also use an existing bunker for storage and emergency training exercises. The 9.7-ac California least term colony occurs on the VA transfer property and the VA will be responsible for the long-term management and monitoring of the colony. The Navy will convey the remaining surplus property at Alameda Point to the City for mixed-use development.

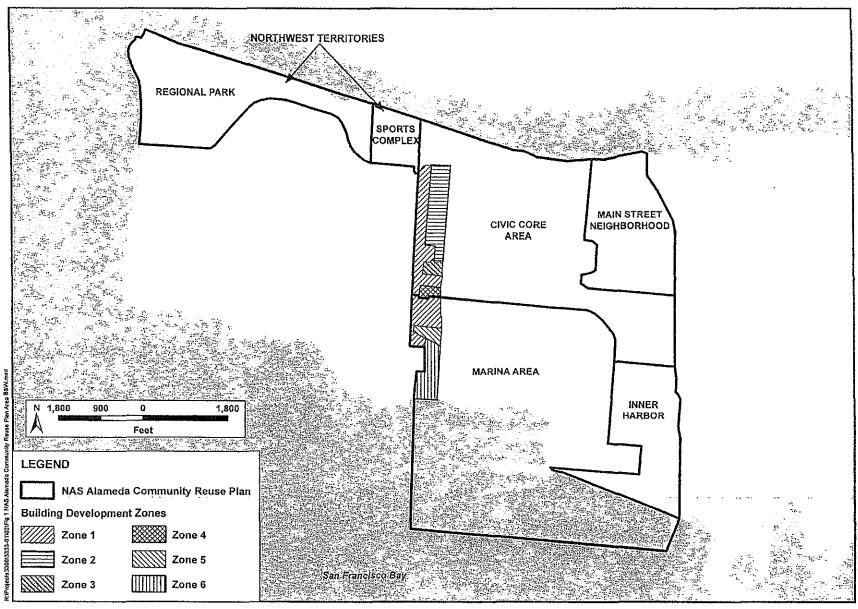




Figure 1: NAS Alameda Community Reuse Plan Area Alameda Point Predator Management Plan (3333-03) December 2012

1.4 Purpose and Scope of this Predator Management Plan

1.4.1 Biological Opinion Conditions for the Alameda Point Land Transfer/Conveyance

Through consultation with the Navy pursuant to Section 7 of the Federal Endangered Species Act, the USFWS has issued a BO for the Alameda Point land transfer/conveyance with several conditions related to long-term management of the California least tern colony. Although the tern colony is located on land that will be transferred to the VA, and the VA will be responsible for management of the tern colony itself, the USFWS BO requires the City to develop and implement a PMP for lands to be conveyed from the Navy to the City. This includes lands in the Civic Core Area, portions of the Main Street Neighborhoods west of Main Street, Inner Harbor, Marina Area, and NWT (Figure 1). The PMP will be funded by the City in perpetuity, and is required to be integrated with current predator management activities that occur on Alameda Point. Additionally, the USFWS BO requires the City to implement certain restrictions within the conveyed lands, such as a prohibition of cat feeding stations and restrictions on lighting and structure design. Although those measures are related to predator management, this PMP focuses only on active predator management activities. The geographic scope of this PMP includes the five planning areas on Alameda Point west of Main Street to be conveyed to the City as described above and depicted in Figure 1. Predator management activities will occur between 25 March and 7 August each year, for an average of 20 hours per week, per conditions of the BO.

1.4.2 Methodology

This PMP was prepared by reviewing relevant information on predator management, including the 2002 Draft Predator Management Plan for Alameda Point prepared by Zander Associates; the 1991 San Francisco Bay National Wildlife Refuge Predator Management Plan, the 2012 Newby Island Landfill Nuisance Species Abatement Plan prepared by H. T. Harvey & Associates; and the Don Edwards National Wildlife Refuge Draft Avian Predator Management Plan. Additionally, H. T. Harvey & Associates wildlife ecologist Scott Demers attended a meeting with Brian Popper of the U.S. Department of Agriculture (USDA) Wildlife Services to obtain information on current predator management activities at Alameda Point. The USDA Wildlife Services is currently contracted by the USFWS, through funds provided by the Navy, to conduct predator management on Alameda Point. Mr. Demers also met with USFWS biologist Susan Euing, who conducts management and monitoring activities at the Alameda Point least tern colony. The experience of Mr. Popper and Ms. Euing related to predator management and least tern ecology at Alameda Point was used to inform and prepare this PMP.

Section 2.0 Alameda Point Predator Management

2.1 Predators of California Least Terns

In 2011, predation on California least terns resulted in the loss of 1144 eggs, 764-784 chicks, and 69 adults throughout their range (Marschalek 2012). Forty-six species were reported as documented or possible predators; the most commonly reported predators were common ravens (Corvus corax), peregrine falcons (Falco peregrinus), American crows (Corvus brachyrhynchos), American kestrels (Falco sparverius), red-tailed hawks (Buteo jamaicensis), and coyotes (Canis latrans, Marschalek 2012). At Alameda Point, confirmed predators of least terns, including their eggs or chicks, include the red-tailed hawk, peregrine falcon, American kestrel, northern harrier (Circus cyaneus), burrowing owl (Athene cunicularia), barn owl (Tyto alba), common raven, American crow, loggerhead shrike (Lanius ludovicianus), and Argentine ant (Linepithema humile). Most recently, peregrine falcons and American kestrels have been the most common predators of least terns at Alameda Point (B. Popper, S. Euing, pers. comm.).

Great blue herons (Ardea herodias) have been observed hunting around the colony, and thus probably have attempted to prey upon terns, but there have been no direct observations of such predation. Great horned owls (Bubo virginianus) are also suspected predators of least terns at Alameda Point because their pellets have been observed along the fenceline that encircles the site, but there has been no direct evidence of this species depredating terns (S. Euing, pers. comm). Gulls, including western gulls (Larus occidentalis) and California gulls (Larus californicus), are potential avian predators of least terns at Alameda Point, as they have been observed in the vicinity of the colony and these species are known to depredate eggs and chicks of other waterbird species.

Potential mammalian predators of least terms observed on Alameda Point include the feral cat, Virginia opossum (Didelphis virginiana), raccoon (Procyon lotor), striped skunk (Mephitis mephitis), gray fox (Urocyon cinereoargenteus), red fox (Vulpes vulpes), Norway rat (Rattus norvegicus), and domestic dog (Canis lupus familiaris; B. Popper, pers. comm.). However, since the least term colony at Alameda Point has been encircled with a fence, mammalian predation on terms has not been documented.

2.1.1 Predator Management Personnel

USDA Wildlife Services personnel currently conduct predator management activities at the Alameda Point California least tern colony. Predator management activities focus on the colony itself and are closely coordinated with USFWS personnel that manage and monitor the colony, along with a team of volunteer monitors. The USDA has also worked closely with the Navy to obtain access to properties on Alameda Point in order to facilitate predator management. For instance, the USDA has been granted access to rooftops to monitor for avian predators and to implement management activities. The USDA currently

conducts predator management activities in a variety of locations throughout the Bay Area, including on Don Edwards San Francisco Bay National Wildlife Refuge and Eden Landing Ecological Reserve, to reduce predation pressure on sensitive species, including the California clapper rail (Rallus longinistris obsoletus) and western snowy plover (Charadrius alexandrinus nivosus). USDA personnel are trained in a variety predator management and removal techniques, and have appropriate permits to conduct such activities. These include non-lethal techniques such as trapping and relocation, hazing, and egg oiling, and lethal techniques, such as shooting and euthanizing trapped animals.

The City may choose to contract with USDA to conduct predator management activities described in this PMP or may contract with another organization. If another organization is contracted to conduct predator management by the City, the USFWS must approve personnel qualifications prior to conducting any predator management activities, per BO conditions for the land conveyance. In addition to qualifications, the ability to acquire the appropriate permits for control measures described below in Sections 2.2.2 (Avian Predator Control) and 2.3.2 (Mammalian Predator Control) needs to be considered. For the purposes of this PMP, members of the organization that is contracted to implement this PMP are referred to as "predator management personnel". The City's predator management personnel will coordinate with tern colony managers and predator management personnel employed by the VA on a weekly basis (or more often if necessary).

2.2 Avian Predator Management

Avian predator management at Alameda Point is a focus of this PMP, as a suite of avian predators have been documented depredating California least tern adults, chicks, and eggs at the Alameda Point colony. The types of avian predators that depredate terns at the Alameda Point colony vary year-to-year depending on the presence, numbers, and breeding status of avian predators in the area, and therefore close monitoring and an understanding of these species' ecology will inform predator management for least terns.

2.2.1 Monitoring of Avian Predators

Monitoring of the presence, breeding status, and behavior of avian predators is critical to determine if control (described below in Section 2.2.2) is necessary. Monitoring activities on City properties will occur between 25 March and 7 August and will include:

Building inspections: The tops of all buildings within 600 feet (ft) of the VA transfer parcel, which includes buildings west of 1st Street, will be inspected for avian predators once per week. Early detection of avian predators is one of the most important components of the PMP. Any observed avian predator nest will be monitored to determine if control measures are necessary. In past years, red-tailed hawks have nested in this area, on Building 25 (Photo 1), and were observed depredating least terms. Control measures including egg-oiling and lethal removal have been implemented on nesting red-tailed hawks on this building. Other species that may nest on building tops include common ravens and American crows, and American kestrels and barn owls could potentially nest in cavities and crevices in or on buildings.

- Monitoring in NWT: Buildings and trees within the regional park of the NWT will be monitored for avian predator nests once per week. Any observed avian predator nest will be monitored to determine if control measures are necessary. Avian predators such as red-tailed hawks, American crows, common ravens, great horned owls (if nesting material is present), and loggerhead shrikes may nest in trees or shrubs once they are established in the NWT. American kestrels may nest in this area if cavities in trees or artificial structures are present.
- Behavioral observations: While conducting monitoring and other predator management activities, behavioral observation of avian predators will be conducted to locate their nests. In addition to the inspections described above, conducting behavioral observations is often necessary to locate predator nests, particularly for species like American kestrels that nest in inconspicuous places (e.g., tree cavities, drain pipes). Also, searching for prey remains or other sign of avian predators (e.g., owl pellets, feathers) is an effective method for locating perching sites of predators.
- Prevention of wildlife feeding: Observations of avian predators being fed by the public or gaining access to anthropogenic food sources (e.g., in open dumpsters) will be reported to the City so that corrective actions can be taken. The feeding of any native and non-native wildlife species that are potential predators of least terms will be prohibited by deed restrictions after the land conveyance (see Section 3.1 below), and therefore predator management personnel will assist the City with identifying violations of this measure.
- Habitat management Predator management personnel will make suggestions to the City regarding vegetation management, removal or modifications of structures, or other habitat modifications if such management activities could reduce the potential for avian predation on least terns. Removing available perches would minimize vantage points used for hunting and could ultimately reduce predator abundance on Alameda Point. The modification of structures by blocking cavities potentially used for nesting may be effective. Also, predator management personnel will document and report to the City any observations of anti-perching devices (see Sections 3.3, 3.4, and 3.5 below) that are in need of repair or replacement.

2.2.2 Avian Predator Control

Monitoring of avian predator presence and behavior will determine if control measures are necessary to reduce predation on least terms. The specific measures used will be based on monitoring results and coordination with term colony managers to determine the most effective method for each situation encountered. For instance, lethal removal will only be considered as a last resort if other measures would not be effective in preventing predation on least terms. The following control measures may be implemented by predator management personnel:

• Nest removal/habitat modifications: The removal of nesting substrate is the most effective measure in preventing avian predators from establishing nests on Alameda Point. Removal of nesting substrate is most critical early in the nesting season when avian predators may still be establishing nest sites. For instance, red-tailed hawks will reuse old nests and great homed owls will use the old nests of hawks, and thus early detection and removal of existing nests is an effective deterrence

- method for these and other avian predators. Predator management personnel will also coordinate with the City to modify habitats (e.g., on rooftops), if such modifications would prevent avian predators from nesting.
- Hazing: The harassment of avian predators by chasing, noise-making, or other means can be effective in deterring a predator from remaining near the tern colony. This method may be most useful for avian predators that are problematic to capture or that nest in areas outside of Alameda Point, such as peregrine falcons. Hazing of predators like peregrine falcons early in the tern breeding season can reduce the amount of hazing necessary during the peak of the season, as predators can become wary after being hazed.
- Egg oiling: The oiling of avian predator eggs prevents eggs from developing and hatching, and thus eliminates the period when avian predators increase hunting activities in order to provision for their young (in contrast, egg removal is often less effective because predators may lay replacement eggs). This method may be used if a nesting pair of raptors or other predator species is located in the vicinity of the tern colony but the adults have not been observed depredating least terms. If the adults do not increase their foraging efforts to provision their young, predation of least terms may be prevented. Typically, nest removal would be performed to prevent predators from establishing nests in the first place, but egg oiling may be used if for some reason a predator nest is established and eggs are laid.
- Trapping and relocation: Trapping and relocation of avian predators can be effective at removing a source of least tern predation without using lethal means. This method may require a higher degree of effort but may be preferred over lethal methods, or required for removal of certain species, such as peregrine falcons which are "Fully Protected" in California. Trapping may involve the use of a bal-charri traps, net traps (e.g., bow net), or other methods. The area of relocation would depend on the species and availability of suitable habitat, and State and federal permit conditions. For instance, USDA Wildlife Services is currently allowed to trap peregrine falcons and relocate them, but only within State boundaries. Because peregrine falcons are able to travel long distances quickly, relocation of falcons would likely occur in portions of the State far from Alameda Point. If trapping and relocation of adult avian predators is conducted, it may be necessary to take their eggs or nestlings to a wildlife care facility. Currently, the Ohlone Humane Society in Newark will accept eggs or chicks. Ohlone or other wildlife care facilities may require City funding when accepting eggs or young of removed avian predators.
- Lethal removal: If hazing, nest removal, egg oiling, or relocation is determined to be infeasible or ineffective by the predator management personnel and tern colony managers, lethal removal of avian predators may be necessary. Situations where lethal removal may be preferable include avian predators that repeatedly attack the tern colony and/or continuously re-nest on Alameda Point. Lethal removal includes shooting, or trapping and euthanizing in a safe location. Shooting may include the use of rifles (such as a suppressed .22), shotguns, and pellet guns. The use of firearms on City property will need to be approved by the City.
- If, prior to the arrival of least terns, eggs of a potential avian predator of least terns are identified and determined to represent a significant threat to least terns, the City's predator manager will contact

the Migratory Bird Treaty Act (MTBA) permit holder to request that the MTBA permit holder contact the USFWS MTBA permit coordinator for authorization to addle or oil the eggs.

2.3 Mammalian Predator Management

Mammalian predator management mainly involves lethal control of mammalian predators, with the exception of domestic dogs and cats with collars. Captured domestic dogs and collared cats would be brought to the nearest animal shelter, such as the Alameda Animal Shelter or Second Chance Cat Rescue, both located in Alameda.

2.3.1 Mammalian Predator Monitoring

Monitoring will be conducted to inform mammalian predator management activities. Monitoring for the presence of mammalian predators will generally occur concurrently with other activities, such as those described above under Section 2.2 (Avian Predator Management). Specific mammalian monitoring activities include:

- Annual inspections: Annual inspections of vent screens and other potential denning sites will be on buildings in the NWT, Civic Core Area, and Marina Area. Open vents and other openings can provide denning or refuge sites for mammalian predators. The predator management personnel will report missing or damaged screens to the City so that replacement and repairs can be made.
- Spotlight surveys: During nighttime trapping efforts (see Section 2.3.2 Mammalian Predator Control
 below), and periodically through the tern nesting season, spotlighting surveys will be conducted to
 search for nocturnal mammalian predators. Spotlighting surveys will be used to inform and focus
 mammalian predation control efforts.
- Prevention of wildlife feeding: Observations of mammalian predators, particularly feral cats, being fed by the public, or observations of mammalian predators gaining access to food through open dumpsters or other means, will be reported to the City so that corrective actions can be taken. The City is required by the BO to prohibit feral cat feeding stations and feral cat colonies on all lands conveyed from the Navy, and will install education signage describing the prohibition. By reporting feral cat feeding, predator management personnel can assist with the City with enforcing this measure.
- Habitat management: Predator management personnel will make suggestions to the City regarding vegetation management or other habitat modifications if such management activities could reduce the potential for mammalian predation on least terns. For instance, dense ornamental shrubs can harbor mammalian predators and block the view of vents, such that it is difficult to determine if vent screens are in place. Also, vacant lots with dense vegetation are areas where cat feeding stations may occur.

2.3.2 Mammalian Predator Control

As described above, mammalian predator management mainly includes the lethal control, with the exception of dogs and cats with collars. The locations and extent of trapping will be determined by predator management personnel in coordination with tern colony managers. Monitoring will be used to determine where trapping is needed and effort will be adjusted based on trapping and subsequent monitoring results. Unless mammalian predation significantly increases, mammalian trapping efforts will be focused on periods when avian predation pressure is lowest on the tern colony, such as the end of the tern breeding season; during this time, behavioral observations of avian predators are less important than early in the season when predators may still be establishing nests/territories or during the peak of breeding at the tern colony, providing more time for predator management personnel to engage in trapping for mammalian predators. The following control measures may be implemented by predator management personnel:

- Cage traps: Cage traps are the most common method of capturing mammals. Cage traps are baited
 and set at night and retrieved by morning. Any captured mammal, with the exceptions of dogs and
 collared cats will be euthanized using approved methods, such as lethal injection or shooting in a safe
 location.
- Leg-hold traps: Padded leg-hold traps are used infrequently, and only to target red foxes, as red foxes
 are extremely difficult to capture in cage traps. Leg-hold traps are baited at night and retrieved in the
 morning. The use of leg-hold traps would be limited to areas where there is limited human access.
- Snares: Snare traps, including the "powered neck snare", are also used to capture animals, such as red
 foxes, that are difficult to capture in cage traps. Like cage and leg-hold traps, snare traps are baited at
 night and retrieved in the morning.
- Shooting: Shooting is an effective method for controlling red foxes, and this method is generally
 effective for controlling most mammalian species. Shooting may include the use of rifles (such as a
 suppressed .22), shotguns, and pellet guns. The use of firearms on Alameda Point will need to be
 approved by the City.

2.4 Adaptive Management

The monitoring and predator control methodologies described in Sections 2.2 and 2.3 above are meant to be adaptive, in that other methods may be implemented on an as-needed basis. The predator management personnel will coordinate with the tern colony manager and City staff on an ongoing basis, and ineffective or particularly effective techniques will be identified and discussed. Therefore, monitoring and control techniques may be modified if previous efforts were not successful or another measure is deemed more appropriate. For instance, if measures performed only during the period 25 March through 7 August are not effective at reducing predation pressure by nesting birds (which may establish nests prior to 25 March), the timing of nest surveys and removal may need to be altered. Other control techniques not mentioned above may be attempted on a case-by-case basis if, for instance, a particular individual predator is observed repeatedly depredating terns at the colony, as has happened in previous years. In some instances, a combination of measures may be required to be successful; therefore various combinations may have to be

attempted until desired results are achieved. In the case of mammal control, monitoring may indicate that certain mammalian predators use particular areas of Alameda Point more than others, perhaps using certain areas as movement corridors. In that case, tracking surveys or other techniques may be conducted in order to focus trapping efforts. Therefore an increase in trapping effort in those areas, and a reduction in others, could increase the efficacy of the overall trapping efforts.

Also, the overall level of effort is meant to be adaptable as well. The City is required by the BO to fund 20 hours per week of predator management from 25 March through 7 August. However, that level of effort should be considered an average effort spread across the 4.5 month period; a higher level of effort may be needed during the peak nesting period, or extra effort may be needed at times when a problematic term predator is difficult catch or locate. Effort should be prioritized based on the highest perceived predation threat to the term colony, as determined through coordination between the predator management personnel and the term colony managers. During those periods, effort needs to be shifted such that the overall program is successful.

2.5 Reporting and Success Criteria

An annual report of the predator monitoring and control efforts described above in Sections 2.2 and 2.3 will be produced by the contracted predator management personnel and provided to the City. Currently, the USDA Wildlife Services provides an annual report which is appended to the USFW's monitoring report, and both reports are provided to the Navy. The annual report will contain the following sections:

- Monitoring Methods and Results a description of all monitoring activities that were conducted
 during the year and a summary of all information collected during the year on the presence of
 predators at Alameda Point
- Control Methods and Results a description of all avian and mammalian control measures attempted
 during the year; this description will include the types of control and when and where they were used
 at Alameda Point
- Discussion a discussion section evaluating the effectiveness of the monitoring and control methods
- Recommendations a discussion of recommendations for the next year outlining recommended changes in monitoring or control activities

Specific quantitative success criteria for predator monitoring and control cannot be defined because the types and numbers of least tern predators at the Alameda Point colony vary widely from year to year. Each nesting season brings unique challenges to predator control that often require adaptive measures, as addressed in Section 2.4 above. For instance, the bulk of the monitoring and control effort may be concentrated on locating and removing one individual predator responsible for the majority of tern predation. Correlating least tern reproductive success based on the removal of one predator, or even numerous predators, is difficult. There are a number of other factors that contribute to the success or failure of the least tern colony, including food availability, weather (e.g., heat stress, flooding), or environmental contaminants (Marschalek 2012). Therefore, the USFWS currently evaluates the success of predator management at the tern colony not just by the overall reproductive success of the terms or by the number of predators removed, but through a

qualitative assessment of a combination of factors, including environmental factors. The success of this PMP will be also be evaluated by the tern colony manager and the City in a similar way. If the tern colony continues to be productive and observed predators of least terns are controlled such that the tern population remains similar or increases and reproductive success does not decline significantly due to predation, then the PMP will be considered successful. If continued predation is observed without effective control, then the PMP will be modified to address predation issues in coordination with the tern colony manager and the City.

2.6 Predator Management Funding

Funding for predator management and monitoring on lands conveyed from the Navy to the City will be provided by the City. A cooperative agreement will be made between the City and the USDA Wildlife Services or another USFWS-approved organization to perform predator management in accordance with this PMP.

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Exhibit 5 Alameda Point California Least Tern Colony Existing Light Study

ALAMEDA POINT CALIFORNIA LEAST TERN COLONY EXISTING LIGHTING STUDY

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INTRODUCTION

The U.S. Navy intends to transfer some lands on the former Naval Air Station Alameda to the Department of Veterans Affairs (VA) and to convey other lands to the City of Alameda (City). Due to the presence of a colony of the federally endangered California least term (Sternula antillarum browni) on the lands to be transferred to the VA, the Navy consulted with the U.S. Fish and Wildlife Service (USFWS) pursuant to the Federal Endangered Species Act regarding potential effects of future reuse activities by the VA and the City on the least term. The USFWS issued a Biological Opinion (BO) on 29 August 2012 describing the terms and conditions of reuse of these lands in order to protect the nesting terms.

The BO contains restrictions on an increase in lighting associated with new VA and City development in and around the least tern colony. Specifically, the BO states that ambient nighttime light levels during the period April 1 to August 15 cannot increase by more than 10 percent above ambient conditions as a result of VA and City development. To establish the baseline lighting conditions against which a future increase might be measured, the BO contained a condition requiring the VA and the City to conduct a study of baseline lighting levels. Specifically, Condition 1.b of the BO contains the following:

Prior to the conveyance of property from the Navy to the City and prior to the transfer of property from the Navy to the VA, the VA and City shall conduct a Service-approved nighttime lighting study to determine the ambient nighttime light levels, including lumens (perceived brightness of light) and footcandles, at the least tern colony and within 750 feet of the least tern colony. The results of this Service-approved nighttime lighting study will establish the baseline ambient nighttime light levels at the least tern colony and within 750 feet of the least tern colony.

This report was prepared to document the results of such a baseline study performed by the City of Alameda.

METHODS

On the evening of 7 March 2013, Ronald Zeiger, P.E. of Zeiger Engineers, and Kevin Maxson of the Department of Veterans Affairs (VA) each independently took measurements of existing light conditions at and near the least tern colony from 8:30 to 9:30 PM. The lunar phase was waning crescent, the temperature was approximately 46 degrees Fahrenheit, and conditions were overcast sky with rain beginning at 9:30 PM. Lights on the Oakland Bay Bridge were on; stadium lights at AT&T Park were off. Moon light did not influence light readings because of overcast conditions. The maximum illumination effect of the moon's light would be predicted to be approximately 0.01 footcandles under clear skies.

Illumination readings to establish baseline conditions at the colony were taken at five locations on 7 March (Figure 1); three were 10 - 20 feet outside the perimeter fence around the least tern nesting area and two were 750 feet from the fence. Locations No. 1 and No. 2 were both on the northern edge of the nesting area, No. 1 being near the northwest corner and No. 2 near the northeast corner. Location No. 6 was 750 feet north of No. 1. Location No. 4 was at the southeast corner of the fence around the tern colony. Location No. 5 was 750 feet east of No. 4.

Illumination measurements were made using an Extech model 401036 handheld data logging light meter. Vertical measurements were taken with the light meter's receptor held in a perpendicular position, 36 inches above the ground. The receptor was aimed in multiple directions at each test point to obtain readings from the perspective of terns at the colony looking outward. Mr. Zeiger collected measurements facing west, northwest, north, northeast, east, southeast, and south; Mr. Maxson collected readings facing northwest, north, northeast, east, and southwest. Previously, on 29 January 2031, Mr. Zeiger had also recorded measurements under similar conditions and using the same methodology at Location No. 3, which was 750 feet north of No. 2 (Figure 1).

Condition 1.b of the BO states that the lighting study must measure baseline light levels "including lumens (perceived brightness of light) and footcandles". However, lumens are not measured with our instruments. Also, perceived brightness is an out-of-date term for what is now called luminance. In our opinion, it is illuminance and not luminance that should be of concern with respect to the tern colony. Illuminance is the amount of light coming from a light source that lands on a surface (i.e., a bird at the colony) and is measured in footcandles (or Lux in the metric system). Luminance describes the amount of light leaving a surface in a particular direction, and can be thought of as the measured brightness of a surface as seen by the eye. Luminance is expressed in candelas per square meter. As a result, we did not measure or attempt to determine luminance values.

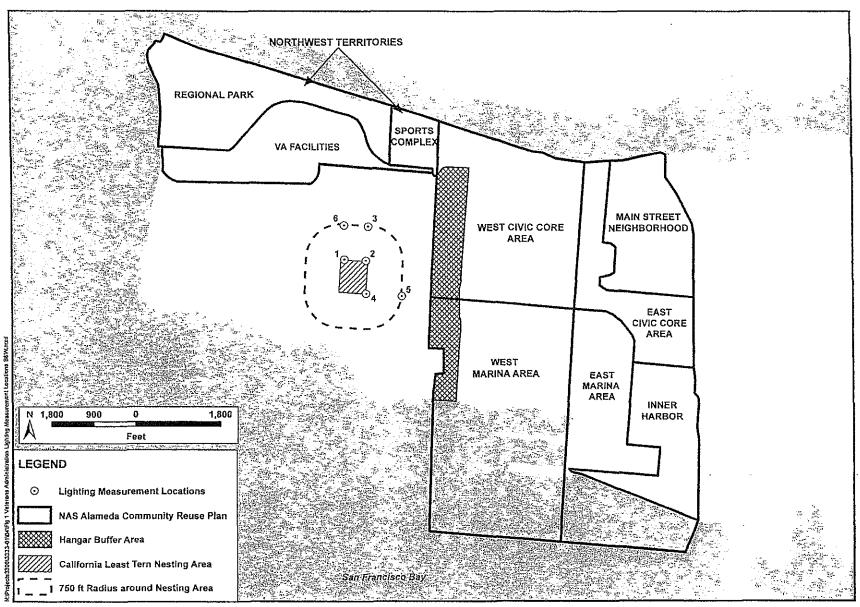




Figure 1: Lighting Measurement Locations
Existing Lighting Study
May 2013

RESULTS

Lighting measurements (in footcandles) recorded at the six points indicated on Figure 1 are provided in Table 1 below. For measurements facing northwest, north, northeast, and east on 7 March, two measurements are provided for each point, the first being the measurement taken by Mr. Zeiger and the second being the measurement taken by Mr. Maxson. Only Mr. Zeiger collected data facing west, southeast, and south, and only Mr. Maxson collected data facing southwest.

Table 1. Light Level Measurements

| Direction* | Point 1 (Vertical fc) | Point 2 (Vertical fc) | Point 3 (Vertical fc) | Point 4 (Vertical fc) | Point 5 (Vertical fc) | Point 6 (Vertical fc) |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| West | 0.02 / | 0.02 / | 0.05 / | 0.02 / | 0.04 / | 0.03 / |
| Northwest | 0.05 / 0.05 | 0.05 / 0.05 | 0.08 / | 0.06 / 0.06 | 0.04 / 0.05 | 0.07 / 0.07 |
| North | 0.06 / 0.04 | 0.06 / 0.07 | 0.09 / | 0.06 / 0.07 | 0.06 / 0.08 | 0.08 / 0.08 |
| Northeast | 0.06 / 0.06 | 0.05 / 0.07 | 0.07 / | 0.06 / 0.05 | 0.03 / 0.07 | 0.05 / 0.07 |
| East | 0.04 / 0.05 | 0.03 / 0.06 | 0.02 / | 0.03 / 0.03 | 0.01 / 0.05 | 0.03 / 0.05 |
| Southeast | 0.00 / | 0.00 / | 0.00 / | 0.01/ | 0.01 / | 0.02 / |
| South · | 0.00 / | 0.00 / | 0.00 / | 0.00/ | 0.00 / | 0.01 / |
| Southwest | / 0.02 | /0.02 | / | / 0.02 | / 0.02 | / 0.02 |

^{* &}quot;Direction" indicates the direction in which the light meter's receptor was facing when the readings were taken.

These measurements represent the baseline lighting conditions at the edge of the California least tern colony and at two points 750 feet from the colony. Future measurements can be taken at these five points, and compared with these baseline data, to determine whether lighting levels at the edge of the colony have changed. Measurements collected independently by Mr. Zeiger and Mr. Maxson were generally very similar, but there were some differences in measurements at some points/directions. Because measurements were taken simultaneously at each point, these differences do not result from differences in actual lighting conditions, but instead they likely result from differences in the instruments used. Such variability is not unexpected when attempting to measure such low light levels, and this variability should be considered when assessing whether lighting levels have changed based on future measurements.