

## **APPENDIX C**

### **INRMP PROJECTS, SCHEDULES, AND IMPLEMENTATION TABLE**



## Appendix C

### NBC INMRP Projects, Schedules, and Implementation Table

**Tables C-1** through **C-8** contain natural resources projects proposed for NBC facilities to meet goals and objectives of this INRMP. The tables include the INRMP subject area and issue number, the funding source, EPR project code, a project description, the EPR priority number, the corresponding law or regulation, proposed frequency and fiscal years for implementing each recommendation, which initiatives in the Natural Resources Metrics Builder that the project meets, and estimated costs for completion. These tables illustrate the complexity of specific requirements to be addressed by the Navy.

The projects presented in **Tables C-1** through **C-8** will enhance natural resources on NBC, without impacting other installation plans and activities. Implementing these projects will ensure that development will be conducted in an environmentally sensitive way (i.e., smart growth) and will require cooperation between the installation, environmental offices, facilities maintenance, and operations. As new installation plans and DoN guidance and regulations are developed, they should be integrated with the goals and management actions resulting from this INRMP.

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**Table C-1: Naval Base Coronado General INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
NBC ALL	CNIC	00246NR000	CHE SW NBC INRMP	INRMP updates and revisions	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7
Special Status Species	CNIC	In-house	N/A	Investigate the need for implementing research projects to understand ecological requirements of special status species.	4	SA, ESA, CESA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 4, 5, 6 and 7
Special Status Species	CNIC	In-house	N/A	Review and update species lists to reflect presence of threatened, endangered, and other species status species.	4	SA, ESA, CESA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, and 5
Special Status Species	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	INRMP Implementation -Initiate habitat improvement projects to conserve biodiversity and protect plant and animal habitats	4	SA, ESA, CESA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5 and 6
Special Status Species	CNIC	In-house	N/A	Revegetate with native species included on the NAVFAC SW recommended plant list. Include sensitive plant species in the NAVFAC SW recommended plant list.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 5, 6 and 7
Special Status Species	CNIC	In-house	N/A	Coordinate with USFWS to identify actions that adversely impact training capabilities, and identify activities that could adversely affect listed species. Adapt measures as warranted and consult with USFWS to receive incidental take coverage where appropriate.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 5, 6 and 7
Special Status Species	CNIC	In-house	N/A	Develop mowing BMPs to ensure that activities do not adversely impact Brand's phacelia. Mowing should be performed after phacelia has set seed.			Once	2012	1, 5 and 6
Law Enforcement of Natural Resources Laws and Regulations and Environmental Awareness	CNIC	In-house, 00246NR020&00246NR019	2 BO SW NBC Natural Resources Training Video, 2 BO SW NBC NR Interpretive Panels and Brochures	Educate the local community, as well as installation personnel and tenants about the installation natural resources program. Develop and distribute educational materials about the NBC natural resources program to stakeholders near NBC (e.g. neighborhoods, county, etc.)	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
Special Status Species	CNIC	In-house	N/A	Once finalized, implement monitoring protocols contained within the DoD Coordinated Bird Monitoring Plan. Contribute data to the Coordinated Bird Monitoring Database.	3	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	Annually	All	1, 5 and 6
Special Status Species	CNIC	In-house	N/A	Develop migratory bird specific BMPs and ensure these BMPs are included in project plans.	4	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	Annually	All	1, 5 and 6
Special Status Species	CNIC	In-house	N/A	Implement erosion control BMPs to ensure adverse environmental impacts to wetlands do not occur.	4	SA, CWA, CA Wetlands Preservation, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 7
Environmental Awareness	CNIC	In-house	N/A	Periodically review and update outreach and education materials to ensure that each is still current.	3	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 2, 3, 4, 5, 6 and 7
Environmental Awareness	CNIC	In-house	N/A	Establish a watchable wildlife program.	2	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2013	1, 5 and 6

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Geographic Information Systems Management, Data Integration, Access and Reporting	CNIC	0024298019	CHS SW CNRSW - Metro Area GIS and Data Management for INRMPs	Annually review GIS data to advise resource managers of needs to update data sets during budget planning and programming.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 5, 6 and 7
Geographic Information Systems Management, Data Integration, Access and Reporting	CNIC	In-house	N/A	Develop specific language that will be included in all contracts to ensure all spatial data produced are fully compatible with the installation GIS database.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 3, 4, 5, 6 and 7
Geographic Information Systems Management, Data Integration, Access and Reporting	CNIC	00246EPRNBC	N/A	Develop a standardized system for recording and mapping significant resource observations (e.g., plants, wildlife, erosion, damage) when incidentally encountered.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2013	1, 3, 4, 5, 6 and 7
Geographic Information Systems Management, Data Integration, Access and Reporting	CNIC	00246EPRNBC	N/A	Provide annual funding for one person to be responsible for updating and maintaining the GIS database. This should include the necessary hardware, software, and training for the use of GIS.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 5, 6 and 7
Habitat Management	CNIC	00246EPRNBC	N/A	Maintain and update wetland inventory data, including wetland distribution and categories.	4	SA, CWA, CA Wetlands Preservation, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 7
Watershed Management	O&MN Env.	NBC Facilities	N/A	Conduct surveys of all streams within the installation to identify erosion, sediment accumulations, or other threats to stream stability.	4	SA, CWA, CA Wetlands Preservation, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2013	1, 5 and 7
Watershed Management	O&MN Env.	NBC Facilities	N/A	Develop actions specific to each unstable stream reach that can be undertaken to assist with stream recovery.	4	SA, CWA, CA Wetlands Preservation, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 7
Watershed Management	O&MN Env.	NBC Facilities	N/A	As funding allows, undertake natural channel design principles to restore stream reaches with highly unstable conditions.	3	SA, CWA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 7
Fish and Wildlife Management	CNIC	In-house	N/A	Continue monitoring listed species as described in this INRMP and adapt monitoring and management actions as needed. Use monitoring information and other information gleaned to guide adaptive management.	3	SA, MMPA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 6
Fish and Wildlife Management	CNIC	In-house	N/A	Develop BMPs to ensure that pollinator species are not adversely impacted by activities.	2	SA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 6
Fish and Wildlife Management	O&MN Env.	NBC ENV Air and Water	N/A	Develop and implement a strategy for pollution management.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C			1, 3, 6 and 7
Grounds and Landscape Maintenance	CNIC	In-house	N/A	Develop and implement BMPs for grounds maintenance (e.g., water conservation). Periodically review the Landscape Management Plan to ensure plan BMPs still meet installation needs.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 4, 5 and 6

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							Frequency	Fiscal Year	
Grounds and Landscape Maintenance	CNIC	In-house	N/A	Develop monitoring metrics, and set targets to ensure management strategies are meeting goals and objectives.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5 and 6
Pest Management	CNIC O&MN Env.	NAVFAC Applied Biologist	N/A	Contribute to necessary updates of SDMAI as necessary to ensure that the plan reflects changes in pest populations and current management issues. Incremental updates to the plan will be conducted annually. Monitor pest and invasive species populations. Track usage of active ingredients and man-hours spent controlling pest and invasive species during implementation to ensure that the management strategies are sufficient.	4	SA, EO 13112, CA MIL, CA Native, CA Pest Management, DoD Inst. 4715.03, DoD Inst. 4150.07, OPNAVINST 5090.1C	Annually	All	1, 4, 5 and 6
Pest Management	PACFLT	NAVFAC Pest Control	N/A	Develop and implement a program to control feral animals.	4	SA, EO 13112, CA MIL, CA Native, CA Pest Management, DoD Inst. 4715.03, DoD Inst. 4150.7, OPNAVINST 5090.1C	Once	2012	1, 4, 5 and 6
Pest Management	CNIC	00246EPRNBC	N/A	Conduct surveys when appropriate to determine impact of feral animals on native species.	4	SA, EO 13112, CA MIL, CA Native, CA Pest Management, DoD Inst. 4715.03, DoD Inst. 4150.7, OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 4, 5 and 6
Habitat Management	CNIC	In-house	N/A	Develop specifications and standards for reseeded/revegetation of disturbed sites for use in contracts, maintenance, and other projects.	4	SA, CA MIL, CA Habitat Enhancement Act, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5, 6 and 7
Law Enforcement of Natural Resources Laws and Regulations	CNIC	In-house	N/A	Provide natural resources training to personnel responsible for enforcement of applicable laws and regulations.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 6 and 7
Law Enforcement of Natural Resources Laws and Regulations	CNIC	In-house	N/A	Cooperate with other agencies, particularly the USFWS and CDFW, to ensure that natural resources laws are adequately enforced.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7
NBC ALL	CNIC	00242NR020	2 BO SW Metro Wildlife Assist Support	Southwest metro area wildlife assist in the pick-up and transportation of sick and injured wildlife to rehabilitation facilities.	4	SA, ESA, MBTA	Annual	All	2, 5 and 6
Habitat Management	CNIC	00246NR021	SW NBC - Erosion Control Plan & Implementation	Implement erosion control BMPs to ensure adverse environmental impacts to TES habitat do not occur.	4	SA, ESA, CESA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5 and 6
Watershed Management	CNIC	00246NR021	SW NBC - Erosion Control Plan & Implementation	Monitor and rehabilitate degraded soil resources. Conduct surveys to determine whether activities are adversely impacting soil and water resources through erosion and sedimentation. Surveys will be conducted once every 5 years, and survey results will be analyzed to assist with identification of degraded soil or eroded areas.	4	SA, CWA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 7
Watershed Management	CNIC	00246NR021	SW NBC - Erosion Control Plan & Implementation	Periodically review erosion control BMPs to ensure that they are still adequate to control adverse erosion and sedimentation. Conduct surveys to determine whether activities are adversely impacting soil and water resources through erosion and sedimentation.	4	SA, CWA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 7

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							Frequency	Fiscal Year	
Watershed Management	CNIC	00246NR021	SW NBC - Erosion Control Plan & Implementation	Survey areas where soil erosion and compaction might occur to ensure that BMPs within the Erosion Control Plan are implemented and effective.	4	SA, CA Habitat Enhancement Act, DoD Inst. 4715.03, OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 5, 6 and 7
Outdoor Recreation and Public Access	CNIC	00246NR022	SW NBC Outdoor Recreation Plan	Develop an outdoor recreation plan for NBC.	3	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2014	1, 2, 3 and 6
Outdoor Recreation and Public Access	CNIC	00246NR022	SW NBC Outdoor Recreation Plan	Identify and evaluate suitable outdoor recreation opportunities for installation personnel in undeveloped areas that do not contain or have the potential to impact sensitive species.	2	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3 and 6
NBC ALL	CNIC	00242NR026	1 S W NBC NOLF/NRRF Light-footed Clapper Rail Surveys	Earth Day / international migratory bird day: educational materials	2	SA, OPNAVINST 5090.1C	Annual	All	1,5 and 6
Special Status Species	CNIC	00242NR027	MBTA SW Metro Heron and Egret Surveys	Southwest metro area Heron and Egret surveys.	4	SA, MBTA	Triennial	2014, 2017	1,5 and 6
Habitat Management	CNIC	00246NR030	SW NBC Long-Term Ecological Trend Monitoring	Conduct long-term resource monitoring to detect changes caused by military activities.	4	SA, CA MIL, CA Habitat Enhancement Act, DoD Inst. 4715.03, OPNAVINST 5090.1C	Biennial	2013, 2015, 2018	1, 5, 6 and 7
NBC ALL	CNIC	In-house	N/A	Annually review and update recommended plant list. Develop and implement a review process for all projects that include a landscaping component to ensure nonnative species are not introduced.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 5, 6 and 7
NBC ALL	CNIC	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	Develop and implement an Invasive Species Management Plan to control the spread of invasive species on NBC. The plan should include specific prescriptions to evaluate individual invasive species, to identify targeted species, to control further spread of targeted species, and to develop and implement a program to monitor species abundance.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 4, 5, 6 and 7
NBC ALL	CNIC	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	Conduct surveys annually to determine whether controls on existing infestations of species have been effective, and whether new populations have become established.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
NBC ALL	CNIC	In-house	N/A	Coordinate with the Natural History Museum to identify unknown species that may be invasive.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	2012	1 and 2
NBC ALL	CNIC	00246NR114 and 00246EPRNBC	SW NBC - NR Inventory & Update for Various Installations	Survey for and monitor herpetofauna populations using guidelines recommended by Partners in Amphibian and Reptile Conservation (PARC). Once finalized, implement DoD PARC Strategic Plan.	4	SA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	At least every 5 years	TBD	1, 4, 5 and 6
NBC ALL	CNIC	In-house	N/A	Determine if actions require an MBTA permit, and develop effective management for minimizing the unintentional take of migratory birds.	4	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	Annually	All	1, 5 and 6
NBC ALL	CNIC	00246NR114	SW NBC - NR Inventory & Update for Various Installations	Conduct regular to determine what species of migratory birds may have potential to be on NBC.	4	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	At least every 5 years	Varies	1, 5 and 6



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							Frequency	Fiscal Year	
NBC ALL	CNIC	00246NR114	SW NBC - NR Inventory & Update for Various Installations	Conduct surveys to determine what pollinators are on NBC. Ensure inventory data is included in GIS.	3	SA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	At least every 5 years	Varies	1, 5 and 6
NBC ALL	CNIC O&MN Env.	00246NR114	SW NBC - NR Inventory & Update for Various Installations	Conduct regular (approximately every 5 years) surveys for invertebrates that may be present within NBC boundaries.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	At least every 5 years	Varies	1, 5 and 6
NBC ALL	CNIC	00246NR217, 00246NR114, and 00246NR118	SW NBC NAB NR Inventory and Monitoring, SW NBC - NR Inventory & Update for Various Installations, SW NBC NR Inventory Camp M. Monsoor (formerly La Posta)	Conduct regular surveys for special status species that may be present on NBC. Once surveys are completed, incorporated survey data into this INRMP. Ensure that inventory data is digitized and incorporated into the GIS database for NBC.	4	SA, ESA, CESA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	At least every 5 years	Varies	1, 4 and 5
NBC ALL	CNIC	00242NR025	SW CNRSW Metro Area Arbor Day Involvement	Metro Area Arbor Day Involvement	2	SA, DoD Inst. 4715.03, EO 13148	Annually	All	

**Note:** <sup>1</sup>This is not a comprehensive list of applicable regulations, other regulations, policy, or guidance may apply. Please review **Appendix B** for a comprehensive list of laws, policies or guidance for management of natural resources.

**Key Legal Driver:**

CA MIL = CA Mgmt of Fish and Wildlife on Military Lands (CA MIL)  
 CESA = California Endangered Species Act  
 ESA = Federal Endangered Species Act  
 CA Native = CA Native Spp. Conservation and Enhancement  
 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
 OPNAVINST = Chief of Naval Operational Instruction 5090.1C  
 CNIC = Commander, Naval Installation Command  
 PACFLT = Commander, U.S. Pacific Fleet

**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available

**Table C-2: Naval Air Station North Island INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
4.2.5.2	CNIC	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least every 5 years) to determine existing red sand verbena, Nuttall's lotus, and coast woolly-heads population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Every 5 years	2012	1, 5 and 6
4.2.5.1 4.2.5.2	CNIC	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Create a seed bank to increase red sand verbena plant, Nuttall's lotus, coast woolly-heads, Brand's phacelia stock in future years and ensure viable populations following drought or flood years.	3		Once	2012	1, 5 and 6
4.2.5.1 4.2.5.2	CNIC	In-house	N/A	Educate workforce and beach users on sensitive wildlife species, including breeding season restrictions.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
4.2.5.1	CNIC	In-house	N/A	Amend stormwater management plan to recognize nesting seasons of Western Snowy Plovers and ensure clearing of outfalls adjacent to plover areas occurs during non-breeding season.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
4.2.4.5	CNIC	00242NRC22	N/A	Finalize and implement Heron and Egret Management Plan and incorporate appropriate managements strategies into this INRMP.	3	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	Once	2013	1, 5 and 6
4.2.4.5	CNIC	In-house	N/A	Coordinate heron management with BASH program. Reduce BASH risks by encouraging herons to nest in areas of NASNI that are furthest away from the runways (e.g. near Heron Park).	4	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	Annually	All	1, 2, 3, 4, 5, 6 and 7
4.2.4.5 4.2.4.6	CNIC	CNIC USDA National BASH	N/A	Manage habitat near the airfield to reduce attractiveness to wildlife, particularly birds, using the BASH plan guidelines.	4	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	Annually	All	1, 2, 3, 4, 5, 6 and 7
NASNI, NAB, SSTC-N, and SSTC-S	CNIC	00242NR013	MBTA SW San Diego Bay Waterbird Survey	San Diego Bay Waterbird Survey; conduct survey in coordination with Port of San Diego approximately every three years.	3	MBTA, EO 13186, SA	Tri-annual	2013	1, 2, 4, 5 and 6
4.2.5.1	CNIC	00246NR024	1 CP SW NBC - Dune and Strand Restoration to Support Endangered Terns & Plovers	Enhance habitat through revegetation projects.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
4.2.4.5	CNIC	00242NR027	MBTA SW Metro Heron and Egret Surveys	Southwest metro area Heron and Egret surveys	4	SA, MBTA	Triennial	2014, 2017	1,5 and 6
4.2.5.1	PACFLT.	00246NR030	SW NBC Long-Term Ecological Trend Monitoring	Survey for focus management species noted below every two years. Surveys should include an assessment of population size, health, and habitat.	4	OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 3, 4, 5, 6 and 7
4.2.5.2	CNIC	In-house	N/A	Finalize and implement the NBC Burrowing Owl Management Guidelines.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C			1, 2, 3, 5, 6 and 7
	CNIC	00242NR033	2 BO SW Project Wildlife Rehabilitation Support	Southwest metro area Project Wildlife rehabilitation support	4	SA, MBTA, ESA	Annually	FY13	1,5 and 6
4.2.5.2	CNIC	In-house	N/A	Install and maintain artificial burrows per the direction in the final NBC Burrowing Owl Management Guidelines.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C			1, 2, 3, 5, 6 and 7
4.2.3.1 4.2.4.7	PACFLT	00246J100H	2 BO Naval Base Coronado CLT & WSP Predator Control	Implement predator control program in conjunction with Least Tern and Snowy Plover program.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 5, 6 and 7
4.2.5.2	CNIC	00246NR034 and CNIC USDA National BASH	3 SAR SW NBC Burrowing Owl Monitoring	Continue Burrowing Owl burrow monitoring through BASH program (weekly surveys during nesting season and twice monthly during non-nesting) and quarterly base-wide surveys at NASNI/NOLF IB. Ensure that all owl chicks are banded.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Varies	All	1, 2, 3, 5, 6 and 7

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4.2.5.2	CNIC	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least every 5 years) to determine existing red sand verbena, Nuttall's lotus, coast woolly-heads, population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Every 5 years	2012	1, 5 and 6
4.2.5.1	CNIC	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least annually) to determine existing Brand's phacelia population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	2012	1, 5 and 6
4.2.5.1	PACFLT	00246J100G	2 BO NB Coronado Least Tern & Snowy Plover Monitoring	Complete Western Snowy Plover and California Least Tern monitoring on an annual basis.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
4.2.4.3	O&MN Env.	00246MAR01	EFH SW NBC SSTC - Grunion Surveys	Develop and maintain GIS database, and share information collected from management of grunion with CDFW and other regional partners.	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 5 and 6
4.2.4.3	O&MN Env.	in-house	N/A	Develop and implement a strategy to reduce population impacts from oil spills and other hazardous waste in San Diego Bay.	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
4.2.4.3	PACFLT	00246MAR01	EFH SW NBC SSTC - Grunion Surveys	Conduct grunion surveys	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2014	1, 5 and 6
4.2.4.8	CNIC	63406NR019	N/A	Seasonal surveys of the San Diego Bay and surrounding areas shall be conducted to assess distribution patterns and population trends of marine mammals in and around the San Diego Bay and Silver Strand. Distribution in and around Naval facilities, along with seasonal variations, and potential associations to water quality indices shall be included in these surveys. A minimum of 6 surveys/year is needed to assess the patterns of marine mammals in and around the Bay.	4	SA, MMPA, Magnuson-Stevens Fishery Conservation and Management Act.	Biennial	2012, 2014, 2016	1, 5 and 6

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**Key Legal Driver:**

CA MIL = CA Mgmt of Fish and Wildlife on Military Lands (CA MIL)  
 CESA = California Endangered Species Act  
 ESA = Federal Endangered Species Act  
 CA Native = CA Native Spp. Conservation and Enhancement  
 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
 OPNAVINST = Chief of Naval Operational Instruction 5090.1C  
 CNIC = Commander, Naval Installation Command  
 PACFLT = Commander, U.S. Pacific Fleet

**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available

**Table C-3: Naval Amphibious Base Coronado and Silver Strand Training Complex North INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
5.2.4.3	PACFLT	00246MAR01	EFH SW NBC SSTC - Grunion Surveys	Conduct grunion surveys	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	once	2014	1, 5 and 6
NASNI, NAB, SSTC-N, and SSTC-S	CNIC	00242NR013	MBTA SW San Diego Bay Waterbird Survey	San Diego Bay Waterbird Survey; conduct survey in coordination with Port of San Diego approximately every three years.	3	MBTA, EO 13186, SA	Tri-annual	2013	1, 2, 4, 5 and 6
5.2.5.1	CNIC	00246NR030	SW NBC Long-Term Ecological Trend Monitoring	Survey for focus management species noted below every two years. Surveys should include an assessment of population size, health, and habitat.	4	OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 3, 4, 5, 6 and 7
5.2.5.2	CNIC	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least every 5 years) to determine existing red sand verbena, Nuttall's lotus, and coast woolly-heads population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1CSA	Every 5 years	2012	1, 5 and 6
Special Status Species	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Create a seed bank to increase red sand verbena plant stock in future years and ensure viable populations following drought or flood years.	4		Once	2012	1, 5 and 6
5.2.5.2	CNIC.	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least every 3 years) to determine existing Nuttall's lotus population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
5.2.5.1 5.2.5.2	CNIC.	00246NR003	1 CP SW NBC - INRMP Implementation	Perform a vulnerability assessment to assess threats to existing Nuttall's lotus, coast woolly-heads, Brand's phacelia populations.	4				1, 5 and 6
5.2.5.2	CNIC.	00246NR003	1 CP SW NBC - INRMP Implementation	Create a seed bank to increase Nuttall's lotus plant stock in future years and ensure viable populations following drought or flood years.	4		Once	2012	1, 5 and 6
5.2.5.2	CNIC.	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least every 5 years) to determine existing coast woolly-heads population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
5.2.5.1	CNIC.	00246NR003	1 CP SW NBC - INRMP Implementation	Develop mowing BMPs to ensure that activities do not adversely impact Brand's phacelia. Mowing should be performed after phacelia has set seed.	4		Once	2012	1, 5 and 6
5.2.5.1	CNIC.	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least annually) to determine existing Brand's phacelia population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
5.2.5.1	PACFLT	00246NR003	1 CP SW NBC - INRMP Implementation	Create a seed bank to increase Brand's phacelia plant stock in future years and ensure viable populations following drought or flood years.	4		Once	2012	1, 5 and 6
5.2.5.1	PACFLT	00246NR031	NAB EIS Mitigation - Terrestrial	Implement habitat restoration at SSTC-N (including ice plant removal), and incorporate Brand's phacelia into revegetation projects, as appropriate.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 6
5.2.4.6 5.2.9 5.2.11	CNIC O&MN Env.	00246NR020	2 BO SW NBC NR Interpretive Panels and Brochures	Develop and distribute materials to educate workforce and beach users (e.g. encourage Navy workforce to coordinate with the natural resources office on all beach projects).	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.1	PACFLT	00246NR031	NAB EIS Mitigation - Terrestrial	Develop and implement Long-term Habitat Enhancement Plan for SSTC-N and SSTC-S.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7

**Table C-3: Naval Amphibious Base Coronado and Silver Strand Training Complex North INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
5.2.5.1	PACFLT	00246NR031	NAB EIS Mitigation - Terrestrial	Enhance Western Snowy Plover habitat through revegetation projects.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.2	PACFLT	00246J100G	2 BO NB Coronado Least Tern & Snowy Plover Monitoring	Conduct monitoring for Belding's Savannah Sparrow in conjunction with California Least Tern and Western Snowy Plover monitoring as feasible.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.2	PACFLT	00246J100H	2 BO Naval Base Coronado CLT & WSP Predator Control	Perform predator control activities which benefit Belding's Savannah Sparrow in conjunction with California Least Tern and Western Snowy Plover management.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.2	CNIC	In-house	N/A	Amend stormwater management plan to recognize nesting seasons of Belding's Savannah Sparrow and ensure clearing of outfalls adjacent to marsh areas occurs during non-breeding season.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.2	PACFLT O&MN Env.	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	Perform invasive species control in areas where Belding's Savannah Sparrow habitat is known to exist.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.1	PACFLT O&MN Env.	00246J100G	2 BO NB Coronado Least Tern & Snowy Plover Monitoring	Conduct monitoring for Light-footed Clapper Rail in conjunction with California Least Tern and Western Snowy Plover monitoring as feasible.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.1	CNIC	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	If necessary, perform invasive species control in areas where Light-footed Clapper Rail habitat is known to exist.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.1	PACFLT & CNIC	00246NR031 & 00246NR019	NAB EIS Mitigation – Terrestrial, 2 BO SW NBC Natural Resources Training Video	Develop and distribute materials to educate workforce and beach users to eliminate dog/California Least Tern/Western Snowy Plover interactions.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.1	PACFLT	00246NR031	NAB EIS Mitigation - Terrestrial	Control invasive species to provide sufficient open areas for California Least Tern habitat	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
5.2.5.1	CNIC	00242MR117	N/A	To maintain and collect data from the Navy-owned hydrophones to conduct regular multi-organization collaborative surveys for the green sea turtle that may be present within NAB Coronado and SSTC-N boundaries.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 6 and 7
5.2.4.7	CNIC.	00246NR046	MBTA SW NBC Bird/Bat House Installation	Install bird and bat boxes on NAB Coronado and SSTC-N.	1	SA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2013	1, 2, 4, 5 and 6
5.2.4.3	PACFLT	00246MAR01	EFH SW NBC SSTC - Grunion Surveys	Develop and maintain GIS database, and share information collected from management of grunion with CDFW and other regional partners.	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 5 and 6
5.2.4.3	O&MN Env.	in-house	N/A	Develop and implement a strategy to reduce population impacts from oil spills and other hazardous waste in San Diego Bay.	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
5.2.4.5	CNIC	00242NR020	2 BO SW Metro Wildlife Assist Support	Southwest metro area wildlife assist support in the pick-up and transportation of sick and injured wildlife to rehabilitation facilities.	4	SA, ESA, MBTA	Annual	All	2, 5 and 6
5.2.4.5	CNIC	00242NR027	MBTA SW Metro Heron and Egret Surveys	Southwest metro area Heron and Egret surveys	4	SA, MBTA	Triennial	2014, 2017	1,5 and 6

**Table C-3: Naval Amphibious Base Coronado and Silver Strand Training Complex North INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
5.2.4.5	CNIC	00242NR033	2 BO SW Project Wildlife Rehabilitation Support	Southwest metro area Project Wildlife rehabilitation support	4	SA, MBTA, ESA	Annually	FY13	1,5 and 6
9.2.4.7	PACFLT	00246NBCEPR/In house	N/A	Navy NR staff should work in coordination with landowners to support the regional feral pig eradication efforts that are currently underway in San Diego County.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1,5 and 6

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**Key Legal Driver:**

CA MIL = CA Mgmt of Fish and Wildlife on Military Lands (CA MIL)  
 CESA = California Endangered Species Act  
 ESA = Federal Endangered Species Act  
 CA Native = CA Native Spp. Conservation and Enhancement  
 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
 OPNAVINST = Chief of Naval Operational Instruction 5090.1C  
 CNIC = Commander, Naval Installation Command  
 PACFLT = Commander, U.S. Pacific Fleet

**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available

**Table C-4: Silver Strand Training Complex South INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
6.2.4.3	PACFLT	00246MAR01	EFH SW NBC SSTC - Grunion Surveys	Conduct grunion surveys	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	once	2014	1, 5 and 6
NASNI, NAB, SSTC-N, and SSTC-S	CNIC	00242NR013	MBTA SW San Diego Bay Waterbird Survey	San Diego Bay Waterbird Survey; conduct survey in coordination with Port of San Diego approximately every three years.	3	MBTA, EO 13186, SA	Tri-annual	2013	1, 2, 4, 5 and 6
6.2.5.2	CNIC	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least every 5 years) to determine existing red sand verbena, Nuttall's lotus, and coast woolly-heads population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1CSA	Every 5 years	2012	1, 5 and 6
6.2.5.1 6.2.5.2	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Perform a vulnerability assessment to assess threats to existing red sand verbena, Nuttall's lotus, coast woolly-heads, salt marsh bird's-beak populations.	4				1, 5 and 6
6.2.5.1 6.2.5.2	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Create a seed bank to increase red sand verbena, salt marsh bird's-beak, Nuttall's lotus, and coast woolly-heads plant stock in future years and ensure viable populations following drought or flood years.	4		Once	2012	1, 5 and 6
6.2.5.1	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Conduct periodic monitoring (recommend annually) to determine existing population of salt marsh bird's-beak health.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
6.2.5.1	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Complete a habitat evaluation to determine where salt marsh bird's-beak populations can be expanded.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 3, 4, 6 and 7
6.2.5.1	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Study pollinators to determine which species on SSTC-S are critical to salt marsh bird's-beak reproduction.	4		Annually	All	1 and 6
6.2.5.2	O&MN Env.	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (at least biannually) to determine existing variegated dudleya population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
6.2.5.2	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Perform a vulnerability assessment to assess threats to existing variegated dudleya populations.	4				1, 5 and 6
6.2.5.2	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Create a seed bank to increase variegated dudleya plant stock in future years and ensure viable populations following drought or flood years.	4		Once	2012	1, 5 and 6
6.2.5.2	O&MN Env.	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring to determine existing coast barrel cactus population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
6.2.5.2	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Perform a vulnerability assessment to assess threats to existing coast barrel cactus populations.	4				1, 5 and 6
6.2.5.2	O&MN Env.	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least every 3 years) to determine existing Nuttall's lotus population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
6.2.5.2	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Create a seed bank to increase Nuttall's lotus plant stock in future years and ensure viable populations following drought or flood years.	4		Once	2012	1, 5 and 6

**Table C-4: Silver Strand Training Complex South INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
6.2.5.2	O&MN Env.	00246NR100	1 S - SW NBC Salt Marsh Bird's Beak and other Sensitive Plant Species Management	Conduct periodic monitoring (recommend at least every 5 years) to determine existing coast woolly-heads population health.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
6.2.5.1	PACFLT	00246NR031	NAB EIS Mitigation - Terrestrial	Develop and implement Long-term Habitat Enhancement Plan for SSTC-N and SSTC-S.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
6.2.5.1	O&MN Env.	00246EPRNBC	N/A	Enhance Western Snowy Plover habitat through revegetation projects.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
6.2.5.1	O&MN Env.	00246NR026	1 S W NBC NOLF/NRRF Light-footed Clapper Rail Surveys	Coordinate with USFWS and CDFW to ensure marsh habitat within SSTC-S is being monitoring for Light-footed Clapper Rail on an annual basis. Implement additional monitoring if necessary.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
6.2.5.1	CNIC	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	If necessary, perform invasive species control in areas where Light-footed Clapper Rail habitat is known to exist.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
6.2.5.1	CNIC	In-house	N/A	Manage and monitor lease with City of Coronado for Biological Study Area to ensure appropriate management measures are in place.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
6.2.5.1	CNIC	00246NR026	1 S W NBC NOLF/NRRF Light-footed Clapper Rail Surveys	If necessary, continue to work with USFWS to investigate impacts to Light-footed Clapper Rail from contaminants and determine appropriate management response.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	As needed	Varies	1, 2, 3, 4, 6 and 7
6.2.5.1	CNIC	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	Perform invasive species control in areas where vernal pools are known to exist.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
6.2.5.1		Research		Support genetic research of San Diego fairy shrimp					
6.2.5.1	CNIC & PACFLT O&MN Env.	00246NR117 & 00246NR031	NAB EIS Mitigation – Terrestrial, NAB EIS Mitigation - Terrestrial	Conduct periodic monitoring of habitat to include protocol San Diego Fairy Shrimp for conducting surveys (e.g., topography, water chemistry).	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
6.2.5.1	CNIC O&MN Env.	00246NR117	2 BO SW NBC - Endangered Fairy Shrimp Surveys - NRRF and NOLF	Complete a vulnerability assessment to assess threats to existing populations.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
6.2.5.1	CNIC	In-house	N/A	Develop protocols to ensure personnel clean footwear and equipment used in pools (before and after) conducting activities in vernal pools.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 6 and 7
6.2.4.3	O&MN Env.	00246MAR01	EFH SW NBC SSTC - Grunion Surveys	Develop and maintain GIS database, and share information collected from management of grunion with CDFW and other regional partners.	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 5 and 6
6.2.4.3	O&MN Env.	In-house	N/A	Develop and implement a strategy to reduce population impacts from oil spills and other hazardous waste in San Diego Bay.	4	SA, CWA, CA Aquatic Resources, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
6.2.4.7	CNIC	00246NR046	MBTA SW NBC Bird/Bat House Installation	Install bird and bat boxes on SSTC-S.	1	SA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2013	1, 2, 4, 5 and 6



**Table C-4: Silver Strand Training Complex South INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
6.2.4.5	CNIC	00242NR020	2 BO SW Metro Wildlife Assist Support	Southwest metro area wildlife assist in the pick-up and transportation of sick and injured wildlife to rehabilitation facilities.	4	SA, ESA, MBTA	Annual	All	2, 5 and 6
6.2.4.5	CNIC	00242NR033	2 BO SW Project Wildlife Rehabilitation Support	Southwest metro area Project Wildlife rehabilitation support	4	SA, MBTA, ESA	Annually	FY13	1,5 and 6

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 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
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 CNIC = Commander, Naval Installation Command  
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**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available

**Table C-5: Naval Outlying Landing Field Imperial Beach INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
7.2.5.1	CNIC	00246NR030	SW NBC Long-Term Ecological Trend Monitoring	Survey for focus management species noted below every two years. Surveys should include an assessment of population size, health, and habitat.	4	OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 3, 4, 5, 6 and 7
7.2.5.1	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Perform invasive species control around areas known to contain salt marsh bird's-beak habitat.	4	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
7.2.5.1	CNIC	00246NR105	1 CP SW NOLFIB - Habitat Enhancement for Federally Listed Species and Species at Risk (Light-footed Clapper Rail, Least Bell's Vireo, SDFS)	Conduct periodic monitoring of salt marsh bird's-beak habitat (at least every 3 years) and ensure monitoring does not impact sensitive habitat occupied by the Light-footed Clapper Rail.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
7.2.5.1	CNIC	00246NR003	1 CP SW NBC - INRMP Implementation	Create a seed bank to increase salt marsh bird's-beak plant stock in future years and ensure viable populations following drought or flood years.	4	2012	1, 5 and 6		
7.2.5.1	CNIC	00246NR105	1 CP SW NOLFIB - Habitat Enhancement for Federally Listed Species and Species at Risk (Light-footed Clapper Rail, Least Bell's Vireo, SDFS)	Conduct a study of pollinators in the salt marsh bird's-beak habitat to determine critical relationships between plant populations and pollinators.	2		Annually	All	1 and 6
7.2.5.2	O&MN Env.	00246NR034	3 SAR SW NBC Burrowing Owl Monitoring	Finalize and implement the NBC Burrowing Owl Management Guidelines.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C			1, 2, 3, 5, 6 and 7
7.2.5.2	O&MN Env.	00246NR034	3 SAR SW NBC Burrowing Owl Monitoring	Educate NOLF IB workforce on Burrowing Owl Management Guidelines.					
7.2.5.2	CNIC	00246NR034 and CNIC USDA National BASH	3 SAR SW NBC Burrowing Owl Monitoring	Continue burrow monitoring through BASH program (weekly surveys during nesting season and twice monthly during non-nesting), quarterly base-wide surveys at NASNI/NOLF IB. Ensure that all owl chicks are banded.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Varies	All	1, 2, 3, 5, 6 and 7
7.2.5.2	CNIC	In-house	N/A	Coordinate with USFWS and CDFW to ensure NOLF IB property within USFWS Refuge is being surveyed for Belding's Savannah Sparrow.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4 and 6
7.2.5.2	CNIC	In-house	N/A	Amend stormwater management plan to recognize nesting seasons of Belding's Savannah Sparrow and ensure clearing of outfalls adjacent to marsh areas occurs during non-breeding season.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
7.2.5.2	CNIC	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	As necessary, perform invasive species control in areas where Belding's Savannah Sparrow habitat is known to exist.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
7.2.5.1	O&MN Env.	00246NR026	1 S W NBC NOLF/NRRF Light Footed Clapper Rail Surveys	Coordinate with USFWS and CDFW to ensure NOLF IB property within USFWS Refuge is being surveyed for Light-footed Clapper Rail. Implement additional monitoring if necessary.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4 and 6
7.2.5.1	CNIC	In-house	N/A	Amend stormwater management plan to recognize nesting seasons of Light-footed Clapper Rail and ensure clearing of outfalls adjacent to marsh areas occurs during non-breeding season.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
7.2.5.1	CNIC	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	As necessary perform invasive species control in areas where Light-footed Clapper Rail habitat is known to exist.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7

**Table C-5: Naval Outlying Landing Field Imperial Beach INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
7.2.5.1	CNIC	00246NBCEPR/In-house	N/A	Work with USFWS to investigate the major predators of Least Bell's Vireo nests and the diet of Black-throated Magpie Jays in the Tijuana River valley to determine impact on vireos. If warranted, consider implementing a control program.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	FY 2015	1, 2, 3, 4, 6 and 7
7.2.5.1	CNIC	00246NR028	1 RP SW NBC NOLF Cowbird Trapping	Implement measures to reduce parasitism of Least Bell's Vireo by Brown-headed Cowbirds.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
7.2.5.1	CNIC	00246NR035	1 S SW NBC NOLF Least Bell's Vireo and Willow Flycatcher Surveys	Survey population of Least Bell's Vireo and look for Southwestern Willow Flycatcher at least every 3 years using USFWS protocol. Include nest and territory monitoring, if feasible.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Triennial	2012, 2015	1, 2, 4, 6 and 7
7.2.5.1	CNIC	00246NR101	2 BO - SW NBC - Invasive Plant Control in support of listed and sensitive species	Conduct invasive species control.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
7.2.5.1	CNIC	00246NR117	2 BO SW NBC - Endangered Fairy Shrimp Surveys - NRRF and NOLF	Perform periodic monitoring using established protocols for San Diego fairy shrimp surveys.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
7.2.5.1	CNIC	00246NR117	2 BO SW NBC - Endangered Fairy Shrimp Surveys - NRRF and NOLF	Complete a vulnerability assessment to assess threats to existing populations.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
7.2.4.3 7.2.4.7	O&MN Env.	00246NR046	MBTA SW NBC Bird/Bat House Installation	Install bird and bat boxes on NOLF IB.	1	SA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2013	1, 2, 4, 5 and 6
	CNIC O&MN Env.	00246NR023	MBTA SW NBC NOLF Migratory Bird MAPS Monitoring	NOLF Migratory Bird MAPS Monitoring Station	4	SA, MBTA 4715.03, 5090.1C	Annually	All	1, 2, 4, 5 and 6
7.2.11	CNIC	In-house, 00246NR019 & 00246NR020	2 BO SW NBC Natural Resources Training Video, 2 BO SW NBC NR Interpretive Panels and Brochures	Develop and distribute materials to educate personnel at the airfield about the NOLF IB natural resources program.	4	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	Annually	All	1, 2, 3, 4, 5, 6 and 7
7.2.4.5	CNIC	00242NR020	2 BO SW Metro Wildlife Assist Support	Southwest metro area wildlife assist support in the pick-up and transportation of sick and injured wildlife to rehabilitation facilities.	4	SA, ESA, MBTA	Annual	All	2, 5 and 6
7.2.4.5	CNIC	00242NR033	2 BO SW Project Wildlife Rehabilitation Support	Southwest metro area Project Wildlife rehabilitation support	4	SA, MBTA, ESA	Annually	FY13	1,5 and 6

**Note:** <sup>1</sup>This is not a comprehensive list of applicable regulations, other regulations, policy, or guidance may apply. Please review **Appendix B** for a comprehensive list of laws, policies or guidance for management of natural resources.

**Key Legal Driver:**

CA MIL = CA Mgmt of Fish and Wildlife on Military Lands (CA MIL)  
 CESA = California Endangered Species Act  
 ESA = Federal Endangered Species Act  
 CA Native = CA Native Spp. Conservation and Enhancement  
 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
 OPNAVINST = Chief of Naval Operational Instruction 5090.1C  
 CNIC = Commander, Naval Installation Command  
 PACFLT = Commander, U.S. Pacific Fleet

**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available

**Table C-6: Camp Michael Monsoor and Camp Morena INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
8.2.7.1	CNIC	00246NR030	SW NBC Long-Term Ecological Trend Monitoring	Survey for focus management species noted below every two years. Surveys should include an assessment of population size, health, and habitat.	4	OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 3, 4, 5, 6 and 7
	CNIC	00246NR030	SW NBC Long-Term Ecological Trend Monitoring	Conduct climate change vulnerability assessment to assess long-term threats to rare plant populations.	4	SA, OPNAVINST 5090.1C	Once	FY14	1, 5 and 6
8.2.6.3 8.2.8	CNIC	00246NR112	2 BO SW Camp Michael Monsoor (FKA La Posta) - Invasive Plant Species Control	Control and remove invasive species around existing rare plant populations.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
	CNIC	00246NR118	SW NBC NR Inventory Camp M. Monsoor (formerly La Posta)	Perform periodic monitoring of plant populations.	3	SA, EO 13112, CAMIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
8.2.7.2	CNIC	00246NR112	2 BO SW Camp Michael Monsoor (FKA La Posta) - Invasive Plant Species Control	As necessary, control and remove invasive species in Black-chinned Sparrow habitat.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.7.2	CNIC	00246NR118	SW NBC NR Inventory Camp M. Monsoor (formerly La Posta)	Periodically monitor for Black-chinned Sparrows and their habitat.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	At least every 5 years	2013	1, 2, 3, 4, 6 and 7
8.2.7.2	CNIC	In-house	N/A	Ensure fire management activities are conducted outside of the Black-chinned Sparrow breeding season.	4	SA, DoD Inst. 4715.03, DoD Inst. 6055.06, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.7.2	CNIC	00246NR112	2 BO SW Camp Michael Monsoor (FKA La Posta) - Invasive Plant Species Control	As necessary, control and remove invasive species in Gray Vireo habitat.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.7.2	CNIC	00246NR118	SW NBC NR Inventory Camp M. Monsoor (formerly La Posta)	Periodically monitor for Gray Vireos and their habitat.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.7.2	CNIC	In-house	N/A	Ensure fire management activities are conducted outside of the Gray Vireo breeding season.	4	SA, DoD Inst. 4715.03, DoD Inst. 6055.06, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.7.1	CNIC	00246NR112 <sup>2</sup>	2 BO SW Camp Michael Monsoor (FKA La Posta) - Invasive Plant Species Control	Perform invasive species control to reduce threats to Quino checkerspot butterfly habitat.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.7.1	CNIC	002468888 <sup>2</sup>	N/A	Perform periodic monitoring for Quino checkerspot butterfly (recommend at least every 3 years).	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Triennial	2012, 2015	1, 2, 3, 4, 6 and 7

**Table C-6: Camp Michael Monsoor and Camp Morena INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
8.2.7.1	CNIC	00246NR109 <sup>2</sup>	2 BO SW NBC Camp Michael Monsoor (FKA La Posta) - Quino Checkerspot Butterfly Habitat Management	Complete a vulnerability assessment to identify and address threats to Quino checkerspot butterfly populations.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 3, 4, 6 and 7
8.2.7.1	CNIC	NBC Facilities <sup>2</sup>	N/A	Develop a comprehensive road maintenance plan that includes consideration for Quino checkerspot butterfly habitat needs. Review plan annually.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 3, 4, 6 and 7
8.2.7.1	CNIC	In-house <sup>2</sup>	N/A	Perform outreach and education to installation workforce, military members, and improve understanding of population dynamics of Quino checkerspot butterfly.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.7.1	CNIC	00246NR110	1 CP - SW La Posta MWTF - Fire Plan, Updates & Implementation to Benefit Quino Checkerspot Butterfly	Minimize adverse fire management impacts and implement fire management strategies that benefit the species and its habitat.	4	SA, DoD Inst. 4715.03, DoD Inst. 6055.06, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.7.1	CNIC	In-house <sup>2</sup>	N/A	Adhere to provisions in USFWS biological opinion for managing the Quino checkerspot butterfly at Camp Michael Monsoor and Camp Morena.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
8.2.6.11	O&MN Env.	00246NR046	MBTA SW NBC Bird/Bat House Installation	Install bird and bat boxes on Camp Michael Monsoor and Camp Morena.	1	SA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2013	1, 2, 4, 5 and 6
8.2.5.6	O&MN Env.	00246NR110	1 CP - SW La Posta MWTF - Fire Plan, Updates & Implementation to Benefit Quino Checkerspot Butterfly	Review Camp Michael Monsoor and Camp Morena FMP at least annually and update plan according to DoD Instruction 6055.06.	4	SA, DoD Inst. 4715.03, DoD Inst. 6055.06, OPNAVINST 5090.1C	Annually	All	1, 5, 6 and 7
8.2.8	CNIC	00246NR109 & 00246NR020	2 BO SW NBC Camp Michael Monsoor (FKA La Posta) - Quino Checkerspot Butterfly Habitat Management, 2 BO SW NBC NR Interpretive Panels and Brochures	Develop outreach and education materials for distribution within the Camp Michael Monsoor and Camp Morena community.	4	SA, ESA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 2, 4, 5, 6 and 7

**Note:** <sup>1</sup>This is not a comprehensive list of applicable regulations, other regulations, policy, or guidance may apply. Please review **Appendix B** for a comprehensive list of laws, policies or guidance for management of natural resources. <sup>2</sup>These projects are not applicable to Camp Morena.

**Key Legal Driver:**

CA MIL = CA Mgmt of Fish and Wildlife on Military Lands (CA MIL)  
 CESA = California Endangered Species Act  
 ESA = Federal Endangered Species Act  
 CA Native = CA Native Spp. Conservation and Enhancement  
 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
 OPNAVINST = Chief of Naval Operational Instruction 5090.1C  
 CNIC = Commander, Naval Installation Command  
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**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available

**Table C-7: Remote Training Site Warner Springs INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
9.2.5.1	CNIC	00246NR190	1 CP SW RTSWS Quino Checkerspot Butterfly Habitat Enhancement	Perform invasive species control to reduce threats to Quino checkerspot butterfly habitat.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.1	CNIC	00246NR107	1 CP SW RTS Warner Springs - Quino Checkerspot Butterfly Surveys	Perform periodic monitoring for Quino checkerspot butterfly (recommend at least every 3 years).	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Triennial	2012, 2015	1, 2, 3, 4, 6 and 7
9.2.5.1	CNIC	00246NR107	1 CP SW RTS Warner Springs - Quino Checkerspot Butterfly Surveys	Complete a vulnerability assessment to identify and address threats to Quino checkerspot butterfly populations.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 3, 4, 6 and 7
9.2.5.1	O&MN Env.	NBC Facilities	N/A	Develop a comprehensive road maintenance plan that includes consideration for Quino checkerspot butterfly habitat needs. Review plan annually.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 3, 4, 6 and 7
9.2.5.1	CNIC	In-house	N/A	Perform outreach and education to installation workforce, military members, and improve understanding of natural resources including sensitive and listed species.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.1	CNIC	00246NR190	1 CP SW RTSWS Quino Checkerspot Butterfly Habitat Enhancement	Minimize adverse fire management impacts and implement fire management strategies that benefit Quino checkerspot butterfly and its habitat.	4	SA, DoD Inst. 4715.03, DoD Inst. 6055.06, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.1	CNIC	00246NR030	SW NBC Long-Term Ecological Trend Monitoring	Survey for focus management noted below every two years. Surveys should include an assessment of population size, health, and habitat.	4	OPNAVINST 5090.1C	Biennial	2012, 2014, 2016	1, 3, 4, 5, 6 and 7
9.2.5.1	CNIC	00246NR030	SW NBC Long-Term Ecological Trend Monitoring	Conduct climate change vulnerability assessment to assess long-term threats to rare plant populations.	4	SA, OPNAVINST 5090.1C	Once	FY14	1, 5 and 6
	CNIC	In-house	N/A	Develop guidelines for parking vehicles under oak trees.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5 and 6
9.2.5.2	CNIC	00246NR114	SW NBC - NR Inventory & Update for Various Installations	Perform periodic monitoring of plant populations every five years.	3	SA, EO 13112, CA MIL, CA Native, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 5 and 6
9.2.3.4	CNIC	00246NR108	1 CP SW RTS WARNER SPRINGS - Fire Management Plan Update & Implementation to Benefit Multiple Listed Species	Implement fire management plan.	4	SA, DoD Inst. 4715.03, DoD Inst. 6055.06, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.2	CNIC	00246NR115	2 BO SW RTS Warner Springs - Invasive Plant Control	As necessary, control and remove invasive species in Tricolored Blackbird habitat.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.2	CNIC	00246NR114	SW NBC - NR Inventory & Update for Various Installations	Determine presence/absence of Tricolored Blackbird within suitable habitat	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7

**Table C-7: Remote Training Site Warner Springs INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
9.2.5.2	CNIC	00246NR108	1 CP SW RTS WARNER SPRINGS - Fire Management Plan Update & Implementation to Benefit Multiple Listed Species	Ensure fire management activities are conducted outside of the avian breeding season.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.2	CNIC	In-house	N/A	Coordinate trails and hunting management through landowners (VID, USDA-FS, and BLM).	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.2	CNIC	00246EPRNBC	N/A	Investigate and consider methods to control Brown-headed Cowbirds and decrease nest parasitism.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.2	CNIC	00246NR044	1 S SW RTSWS Southwestern Willow Flycatcher Monitoring	Survey population of Willow Flycatcher at least every 3 years using USFWS protocol. If nesting confirmed, include nest and territory monitoring, if feasible.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Triennial	2014, 2017	1, 2, 3, 4, 6 and 7
9.2.5.2	CNIC	00246NR108	1 CP SW RTS WARNER SPRINGS - Fire Management Plan Update & Implementation to Benefit Multiple Listed Species	Rank habitat that has a high value at risk under the fire management plan.	4	SA, DoD Inst. 4715.03, DoD Inst. 6055.06, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.1	PACFLT	00246WSF02	2 BO SW NBC RTSWS Stephen's Kangaroo Rat Monitoring	Monitor population of Stephen's kangaroo rat at least every 3 years using USFWS protocol.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Triennial	2013, 2016	1, 2, 3, 4, 6 and 7
9.2.5.1	CNIC	In-house & NBC Facilities	N/A	Develop and distribute materials to educate the RTSWS personnel on the Stephen's kangaroo rat. Establish nighttime speed limit of 15 miles-per-hour in Stephen's kangaroo rat occupied areas and install signs informing drivers of species presence.	4	SA, CESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.1	PACFLT	00246NR041	2 BO SW RTSWS Arroyo Toad Monitoring	Perform a vulnerability assessment to assess threats to existing arroyo toad populations and habitat.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2012	1, 3, 4, 6 and 7
9.2.5.1	PACFLT	00246WSF03	2 BO SW NBC RTSWS Invasive Species (Bullfrog) Removal	Continue bullfrog removal and control program.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 6 and 7
9.2.5.1	CNIC	In-house & NBC Facilities	N/A	Develop and distribute materials to educate the RTSWS personnel on the arroyo toad to ensure minimization and avoidance measures are followed. Establish nighttime speed limit of 15 miles-per-hour in arroyo toad occupied areas and install signs informing drivers of species presence.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 3, 4, 6 and 7
9.2.5.1	PACFLT	00246WSF01	2 BO SW RTSWS Arroyo Toad Monitoring	Conduct arroyo toad monitoring at least every 3 years. If toads are discovered in areas outside of current arroyo toad Management Area, these locations will be added to the ATMA and managed accordingly.	4	SA, ESA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Triennial	2013, 2016	1, 3, 4, 6 and 7
9.2.4.1	CNIC	00246NR046	MBTA SW NBC Bird/Bat House Installation	Install bird and bat boxes on RTSWS.	1	SA, CA MIL, DoD Inst. 4715.03, OPNAVINST 5090.1C	Once	2013	1, 2, 4, 5 and 6
	CNIC	00246NR123	MBTA SW NBC RTSWS Migratory Bird MAPS Monitoring	RTSWS Migratory Bird MAPS monitoring station	4	MBTA, EO 13186	Annually	2013	

**Table C-7: Remote Training Site Warner Springs INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
9.2.3.4	CNIC	00246NR108	1 CP SW RTS WARNER SPRINGS - Fire Management Plan Update & Implementation to Benefit Multiple Listed Species	Review RTSWS FMP at least annually and update plan according to DoD Instruction 6055.06.	4	SA, CA Habitat Enhancement Act, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 5, 6 and 7
9.2.5	CNIC	00246NR116	1 S - RTS Warner Springs - Listed and Sensitive Plant Surveys	Surveys for federally listed and other special status species	4	ESA, SA, NEPA	Triennial	2014	
9.2.6	PACFLT	00246NR511	2 BO SW RTSWS - Invasive Species Control on lands used for training	Invasive plant species control	4	ESA, EO 13112	Annual	2012 2014	

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 ESA = Federal Endangered Species Act  
 CA Native = CA Native Spp. Conservation and Enhancement  
 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
 OPNAVINST = Chief of Naval Operational Instruction 5090.1C  
 CNIC = Commander, Naval Installation Command  
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**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available



**Table C-8: Naval Base Coronado Housing Areas INRMP Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
10.2.5.1	CNIC	00246NR020	2 BO SW NBC NR Interpretive Panels and Brochures	Develop and distribute outreach and education materials on migratory birds to housing residents and PPV staff.	4	SA, MBTA, DoD Inst. 4715.03, OPNAVINST 5090.1C, Navy MBTA Guidance	Once	2013	1, 5 and 6
10.2.1		In house		Continue to work with the Lessee to ensure compliance with all applicable Federal and state laws.					

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**Key Legal Driver:**

CA MIL = CA Mgmt of Fish and Wildlife on Military Lands (CA MIL)  
 CESA = California Endangered Species Act  
 ESA = Federal Endangered Species Act  
 CA Native = CA Native Spp. Conservation and Enhancement  
 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
 OPNAVINST = Chief of Naval Operational Instruction 5090.1C  
 CNIC = Commander, Naval Installation Command  
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**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available

**Table C-9: Sustainability Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code or Responsible Party	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
NBC	CNIC	In-house, Asset Management	N/A	Work with NAVFAC Real Estate to compile and maintain natural resources requirements for all past real estate actions.					
11.1.1		NBC ENV Water Team	N/A	Implement LID practices for protecting water quality.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.1.1		In-house, NBC Planning Team	N/A	Work with NBC Planning Department to develop sustainability indicators and BMPs, to be incorporated into the planning process. Monitor effectiveness of BMPs and revise as necessary.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.1.1		NAVFAC training	N/A	Conduct training in sustainable design criteria in the Navy for engineers, construction and design specialists, water quality specialists, and biologists. This could be web-based training.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.1.2		00246EPRMM, NBC Cultural Team, NBC ENV Hazardous Waste Team	N/A	Conduct appropriate environmental surveys on any proposed new land use within an undeveloped area to identify sensitive natural and cultural resources, environmental resources, and IRPs (hazardous waste cleanups).		SA, NHPA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.1.3		00246EPRCC, In-house, NBC Planning Team	N/A	Coordinate with regional efforts to work towards adapting and mitigating the adverse consequences of climate change, including stresses on infrastructure, aquatic vegetation, erosion, and shifts in distributions of terrestrial endemic species and plant communities.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.1.3		In-house, NBC Planning, NBC ENV Hazardous Waste & Water Teams	N/A	Address the anticipated increase in extreme events by emphasizing preventative technologies including complying with guidelines on project siting, improving water conservation, improving stormwater management through use of LID technologies, and improving coordination between natural resources staff and development project proponents to ensure more energy efficient design features.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.1.3		00246EPRCC	N/A	Ensure that NBC personnel have access to climate change education and outreach in order to help minimize forecasts for global warming through modification of individual behavior and lifestyle consumption patterns that contribute to global warming.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.2.1	O&MN Env.	In-house	N/A	Develop a process and schedule for coordinating with agencies to allow for agency comment on NR-related management plans.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7
11.2.2	O&MN Env.	00246EPRECO, NAVFAC GIS Team	N/A	Develop new, and enhance existing, databases, and acquire applicable databases from outside sources for application in GIS.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7
11.4.1.1		00246EPRCM, In-house	N/A	Develop or use proven BMPs for controlling soil erosion from construction and landscaping sites.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.4.1.1		In-house, NBC ENV Water and Hazardous Waste Teams	N/A	Consult with USFWS on all new construction projects that could potentially affect federally listed or proposed species. Hold meetings early in the planning stages of a project to discuss with USFWS, NMFS, CDFW, EPA, RWQCB and CCC to discuss potential environmental issues that need to be addressed.	4	SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7
11.4.1.2		In-house, NBC Planning Team	N/A	Work with NBC Planning to ensure incorporation of erosion control BMPs in the preliminary engineering, design, and construction of facilities involving ground disturbance,		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7

**Table C-9: Sustainability Projects and Implementation Table – July 2013**

INRMP Section	Funding Source	EPR Project Code or Responsible Party	Project Title	Project Description	ERL Priority	Legal Driver	Implementation		Natural Resources Metrics Builder
							Frequency	Fiscal Year	
11.4.1.3		NBC Planning, In-house, NBC ENV Water Team	N/A	Develop a five-to-ten year long-term maintenance plan to prevent delays in performance of routine maintenance (such as culvert replacement or pipeline repair) due to environmental issues under ESA and CWA. A long-term plan will also support a more programmatic approach to consultation with resource agencies.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.4.1.4		NBC Emergency Response and Planning Teams, In-house	N/A	Develop and seek funding for an infrastructure replacement schedule that establishes and maintains an equipment management program to ensure that necessary items are procured and properly maintained, an inventory readiness list of all emergency response equipment including their location, and a preventative maintenance schedule to ensure equipment readiness is maintained		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.4.1.5		NBC Facilities Team, In-house	N/A	Develop and implement protocols for conducting maintenance activities on roads. Provide training on protocols to applicable personnel. Reduce mowing frequency and intensity where possible based on ecological considerations (e.g., annual nesting season).		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.5		NBC Planning Team, In-house	N/A	Implement Erosion Control Plan BMPs.		SA, CWA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.5		NBC Planning Team	N/A	Investigate the use of LID for future development projects to minimize adverse impacts of surface runoff from impervious areas.		SA, CWA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.5		NAVFAC training	N/A	Develop an improved training program for appropriate government employees. These workshops should provide training on the need, design, and implementation of BMPs, and on LID.		SA, CWA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 4, 5, 6 and 7
11.6		00246EPRWF	N/A	Develop and implement an avian protection plan using information from the DoD PIF, and USFWS.		SA, MBTA, ST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7
11.10		00246EPROH, NAVFAC GIS Team	N/A	Update GIS layers of natural resources to support preparedness planning, integrate baseline ecological surveys into preparedness planning, and integrate invasive exotic species response planning with oil spill contingency plans.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7
11.11		ONAVFAC Real Estate, In-house	N/A	Work with NAVFAC Real Estate to implement policies to include specific environmental compliance actions in all outgrants issued aboard NBC.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7
11.11		In-house, NAVFAC Real Estate and NBC Planning Team	N/A	Examine all current NBC leases for compatibility with current management direction of this INRMP. All actions should be coordinated through NAVFAC SW and the Public Works Department.		SA, DoD Inst. 4715.03, OPNAVINST 5090.1C	Annually	All	1, 2, 3, 4, 5, 6 and 7

**Note:** <sup>1</sup> This is not a comprehensive list of applicable regulations, other regulations, policy, or guidance may apply. Please review **Appendix B** for a comprehensive list of laws, policies or guidance for management of natural resources.

**Key Legal Driver:**

CA MIL = CA Mgmt of Fish and Wildlife on Military Lands (CA MIL)  
 CESA = California Endangered Species Act  
 ESA = Federal Endangered Species Act  
 CA Native = CA Native Spp. Conservation and Enhancement  
 CWA = Federal Clean Water Act  
 MBTA = Federal Migratory Bird Treaty Act  
 SA = Sikes Act as amended  
 OPNAVINST = Chief of Naval Operational Instruction 5090.1C  
 CNIC = Commander, Naval Installation Command  
 PACFLT = Commander, U.S. Pacific Fleet

**Key Metrics Builder:**

1. INRMP Implementation
2. Partnerships/Cooperation and Effectiveness
3. Team Adequacy
4. Status of Federally Listed Species and Critical Habitat (CH)
5. Ecosystem Integrity
6. Fish and Wildlife Management and Public Use
7. INRMP Impact on the Installation Mission.

N/A = Information not available

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