

TABLE OF CONTENTS

CHAPTER 1. PURPOSE AND NEED.....	7
1.1 Introduction.....	7
1.2 Background.....	7
1.3 Purpose and Need	9
1.3.1 Purpose of Taking Action	9
1.3.2 Need for Action	9
1.4 Project Objectives	10
1.5 Project Area Location	11
1.6 Scope of Environmental Assessment.....	11
1.7 Related Laws, Legislation, Management Guidelines and Constraints.....	12
1.8 Issues and Impact Topics	14
1.8.1 Issues and Impact Topics Identified for Further Analysis.....	14
1.8.2 Impact Topics Considered but Dismissed from Further Consideration	14
CHAPTER 2. DESCRIPTION OF ALTERNATIVES	16
2.1 Introduction.....	16
2.2 Description of Alternatives	16
2.2.1 Background on Alternative Development.....	16
2.3 Alternatives Considered in Detail	17
2.3.1 Features Common to Action Alternatives.....	17
2.3.1.1 – Site-Wide Management Actions	23
2.3.1.2 – Long-term Stewardship Actions	34
2.3.2 Alternatives	35
2.3.2.1 Alternative 1 (Preferred Alternative)	35
2.3.2.2 Alternative 2 (Limited Multiple-use)	36
2.3.2.3 Alternative 3 (All Multiple-use)	36
2.3.2.4 Alternative 4 (No Action)	37
2.4 - Alternatives and Actions Considered but Eliminated from Detailed Study	37
2.4.1 Trail Alignment Alternatives Eliminated from Detailed Study.....	37
2.4.2 Restoration Alternatives Eliminated from Detailed Study	39
2.4.3 Other Recreational Use Alternatives Eliminated from Detailed Study	40
2.5 Comparison of Alternatives	40
2.6 Environmentally Preferred Alternative	40
2.7 Mitigation Summary	41
CHAPTER 3. AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES	42
3.1 Introduction.....	42
3.2 General Methodology	42
3.2.1 Duration.....	42
3.2.2 Context	42
3.2.3 Intensity.....	43
3.2.4 Type of Impact	43
3.2.6 Significance	43
3.3 Cumulative Impacts	44
3.4 Impairment Analysis.....	45
3.5 Regulatory Background	46
3.3.1 Soils and Geology	46
3.3.2 Hydrology, Water Quality, Wetlands, and Streams	46
3.3.3 Vegetation, Wildlife, and Special Status Species.....	47

3.3.4 Cultural Resources	49
3.3.5 Public Safety	49
3.3.6 Air Quality.....	49
3.3.7 Visitor Use and Recreation	50
3.3.8 Noise	50
3.3.9 Visual Resources	50
3.4 Geology and Soils	51
3.4.1 Affected Environment	51
3.4.1.1 Geology and Slope Stability	51
3.4.1.2 Soils	52
3.4.1.3 Seismicity.....	52
3.4.2 Environmental Consequences	53
3.4.2.1 Alternative 1.....	53
3.4.2.2 Alternative 2.....	55
3.4.2.3 Alternative 3.....	55
3.4.2.4 Alternative 4 (No Action Alternative)	55
3.4.2.5 Impairment.....	55
3.5 Hydrology and Water Quality	56
3.5.1 Affected Environment	56
3.5.1.1 Site Hydrology	56
3.5.1.2 Groundwater Resources	56
3.5.2 Environmental Consequences	57
3.5.2.1 Alternative 1.....	57
3.5.2.2 Alternative 2.....	58
3.5.2.3 Alternative 3.....	58
3.5.2.4 Alternative 4 (No Action Alternative)	59
3.5.2.5 Impairment.....	59
3.6 Biological Resources	60
3.6.1 Wildlife	60
3.6.1.1 Affected Environment - Wildlife	60
3.6.1.2 Environmental Consequences - Wildlife	61
Alternative 1	61
Alternative 2	63
Alternative 3	63
Alternative 4	64
3.6.2 Vegetation and Native Plant Communities	65
3.6.2.1 Affected Environment – Vegetation and Native Plant Communities	65
3.6.2.2 Environmental Consequences – Vegetation and Native Plant Communities.....	68
Alternative 1	68
Alternative 2	69
Alternative 3	70
Alternative 4	70
3.6.3 Wetlands.....	71
3.6.3.1 Affected Environment - Wetlands	71
3.6.3.2 Environmental Consequences - Wetlands.....	75
Alternative 1	75
Alternative 2	77
Alternative 3	78
Alternative 4	78
3.6.4 Special Status Species	79
3.6.4.1 Affected Environment – Special Status Species	79

3.6.4.2 Environmental Consequences - Special Status Species	87
Alternative 1	87
Alternative 2	101
Alternative 3	102
Alternative 4	102
3.6.5 Impairment – Biologic Resources.....	105
3.7 Cultural Resources	105
3.7.1 Affected Environment	105
3.7.1.1 Historic Context.....	105
3.7.1.2 Archaeological Sites	107
3.7.2 Environmental Consequences	107
3.7.2.1 Alternative 1.....	107
Cumulative Impacts	108
3.7.2.2 Alternative 2.....	108
3.7.2.3 Alternative 3.....	108
3.7.2.4 Alternative 4 (No Action Alternative)	108
3.7.2.5 Impairment.....	109
3.8. Public Safety	109
3.8.1 <i>Affected Environment</i>	109
3.8.2 Environmental Consequences	109
3.8.2.1 Alternative 1.....	109
3.8.2.2 Alternative 2.....	111
3.8.2.3 Alternative 3.....	111
3.8.2.4 Alternative 4 (No Action Alternative)	111
3.9 Air Quality	111
3.9.1 Affected Environment	111
3.9.2 Environmental Consequences	112
3.9.2.1 Alternative 1.....	112
3.9.2.2 Alternative 2.....	113
3.9.2.3 Alternative 3.....	113
3.9.2.4 Alternative 4 (No Action Alternative)	113
3.9.2.5 Impairment.....	113
3.10 Visitor Use and Recreation	114
3.10.1 Affected Environment	114
3.10.2 Environmental Consequences	114
3.10.2.1 Alternative 1.....	114
3.10.2.2 Alternative 2.....	115
3.10.2.3 Alternative 3.....	116
3.10.2.4 Alternative 4 (No Action Alternative)	116
3.11 Noise	117
3.11.1 Affected Environment	117
3.11.2 Environmental Consequences	117
3.11.2.1 Alternative 1.....	117
3.11.2.2 Alternative 2.....	119
3.11.2.3 Alternative 3.....	119
3.11.2.4 Alternative 4 (No Action Alternative)	119
3.12 Visual Resources.....	119
3.12.1 Affected Environment	119
3.12.2 Environmental Consequences	120
3.12.2.1 Alternative 1.....	120
3.12.2.2 Alternative 2.....	122

3.12.2.3 Alternative 3.....	122
3.12.2.4 Alternative 4 (No Action Alternative)	122
Chapter 4. CONSULTATION AND COORDINATION.....	123
4.1 Scoping	123
4.1.1 Public Involvement	123
4.1.1.1 Internal Scoping and Project Review	124
4.2 Regulatory Compliance	124
4.3 List of Preparers and Contributors.....	126
4.4 List of Recipients and Review of EA.....	130
4.5 References.....	131
Appendix A. Mori Point Site Resources Studies and Maps.....	135
Appendix B. Invasive Species Removal Techniques.....	141
Appendix C. Trail Construction Methods.....	143
Appendix D. Proposed Pond Locations	144
Appendix E. Best Management Practices and Mitigation Summary	146
Appendix F. U.S. Fish and Wildlife Service Letter with Species List for the Project.....	161
Appendix G. Special Status Species with Potential to Occur at Mori Point.....	173
Appendix H. Project Map for Public Scoping	179

LIST OF TABLES

Table 1. Comparison of Project Alternatives.....	40
Table 2: Summary of Vegetation Alliances at Mori Point.....	67
Table 3: Summary of Vegetation Associations at Mori Point	67
Table 4. Invasive species noted at Mori Point.	68
Table 5. Potentially Jurisdictional USACE Wetlands and Waters at Mori Point.	72
Table 6. Cowardin Classification Wetlands Mapped at Mori Point.	75
Table 8. Impacts to Cowardin Wetlands.....	76
Table 9. Temporary Impacts to Potential USACE Jurisdictional Wetlands	76
Table 10. Potential Net Gain of Wetland Habitat from Proposed Pond Creation.....	76
Table 7. Acres of Vegetation Alliances within the Proposed Action Area, and Estimated Acres of Impacts from the Proposed Project Actions.	104
Table 11. Typical Noise Levels	118

LIST OF FIGURES

Figure 1. Mori Point Project Regional Location Map.....	8
Figure 2. Mori Point General Restoration and Trail Plan	18
Figure 3. Alternative 1: Preferred Alternative.	19
Figure 4. Alternative 2: Limited Multiple-Use	20
Figure 5. Alternative 3: All Multiple-Use.....	21
Figure 6. Alternative 4 (No Action Alternative).	22
Figure 7. Potential Impact Areas of Proposed Actions.....	26
Figure 8. Trail and Area Names (for Planning Purposes).....	27
Figure 9. Special Restoration Area A.	30
Figure 10. Special Restoration Area B.	31
Figure 11. Special Restoration Area C.	33
Figure 12. Trail Alternatives Considered but Rejected.....	38
Figure 13. Vegetation Alliances within the Project Area.	66
Figure 14. Potential USACE Jurisdictional Wetlands at Mori Point.	73
Figure 15. Cowardin Classification Wetlands at Mori Point.	74
Figure 16. Special Status Species Occurrences Known within the Project Area.....	84

CHAPTER 1. PURPOSE AND NEED

1.1 Introduction

The National Park Service (NPS), in coordination with the Golden Gate National Parks Conservancy (GGNPC), is considering a management strategy for Mori Point, which is located in Pacifica, San Mateo County, on land owned and managed by the Golden Gate National Recreation Area (GGNRA) (Figure 1). Mori Point is rich in natural resources, adjacent to open space, and ideally situated to provide key links to NPS lands at Sweeney and Milagra Ridges and other recreational opportunities along the San Mateo Coast.

Because the NPS recently acquired the land, Mori Point is not specifically included in any NPS or GGNRA general planning documents. A plan is needed to ensure that all uses at Mori Point are compatible and enhance both natural and visitor resources at the site. The GGNRA is proposing to improve visitor access at the 110-acre Mori Point property by implementing restoration actions including a trail system that minimizes impacts to NPS resources and enhances recreational experiences.

This environmental assessment (EA) evaluates a No Action Alternative and three Action Alternatives and analyzes the impacts of each on the environment. The Action Alternatives analyzed are: Alternative 1, Preferred Alternative; Alternative 2, Limited Multiple-use; and Alternative 3, All Multiple-use. This document also includes discussions of alternatives that have been dismissed and the rationale for their elimination. The EA has been prepared in accordance with the National Environmental Policy Act (NEPA) of 1969 and Council on Environmental Quality (40 CFR 1508.9), and the NPS Director's Order (DO) 12, Conservation Planning, Environmental Impact Analysis, and Decision Making, and the National Historic Preservation Act, as amended (NHPA).

1.2 Background

Mori Point was originally part of the San Pedro Spanish Land Grant and has been the site of many enterprises over the past 120 years. The Mori family, for whom the land is now named, settled in Pacifica in the 1890's and developed a farm on Mori Point. The Mori family business included the Mori Point Tavern, which operated on the site from the 1920's to 1966 when it burned to the ground in a fire. Part of Mori Point was also used as a rock quarry and the remains of sand dredging operations are still visible.

For the past 30 years, the property at Mori Point has been threatened with development. The local community, local government, and other organizations fought to protect the area and in 2002, the Trust for Public Land outbid developers at a public auction and purchased the property. Despite being privately owned, Mori Point has historically been used by the community as an urban park for hiking, bicycling, horseback riding, and dog walking. Historic land uses such as quarrying operations, in combination with other uses related to motorbike and off-road vehicles, have resulted in an altered and eroded landscape with a large network of non-designated trails. Soon after, the NPS used funds from the California Coastal Conservancy and the federal Land and Water Conservation Fund to add the 110-acre property to the GGNRA.

FIGURE 1. MORI POINT PROJECT REGIONAL LOCATION MAP

