Maps of the Natural Areas
### Mgmt Area

<table>
<thead>
<tr>
<th>Mgmt Area</th>
<th>Action</th>
</tr>
</thead>
</table>
| MA-1a     | • Maintain dune scrub with open sand  
• Augment sensitive plant populations  
• Reintroduce sensitive plants |
| MA-2      | • Maintain and enhance dune scrub with open sand  
• Augment sensitive plant populations  
• Reintroduce sensitive plants |

### Natural Area Wide Management Actions

- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain: 547 linear feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 0
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

---

**FIGURE 6.22 - 5**

**MANAGEMENT AREAS AND TRAIL PLAN**

**Balboa Natural Area**

Significant Natural Resource Areas Management Plan

San Francisco, California

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Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFSUGIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.'s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1 Foot Resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 28, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.
Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFSU IGS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002; Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone H projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised December 11, 2005.

FIGURE 6.17 - 5
MANAGEMENT AREAS AND TRAIL PLAN
Bayview Park
Significant Natural Resource Areas
Management Plan
San Francisco, California
Figure 6.21-5
Management Areas and Trail Plan
Bernal Hill
Significant Natural Resource Areas
Management Plan
San Francisco

Management Areas
- Management area 1
- Management area 2
- Management area 3

Trails
- primary
- secondary
- proposed

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2003; trails data digitized by San Francisco State University, Institute for GIS (SFSS IGIS), 2005; stream data excerpted from Environmental Systems Research Institute (ESRI), Inc’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1 Foot Resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.


Table of Management Actions

<table>
<thead>
<tr>
<th>Management Area</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA-1a</td>
<td>• Maintain diverse native grassland</td>
</tr>
<tr>
<td></td>
<td>• Augment sensitive plant populations</td>
</tr>
<tr>
<td></td>
<td>• Reintroduce sensitive plants</td>
</tr>
<tr>
<td></td>
<td>• Retrace lowest trail</td>
</tr>
<tr>
<td></td>
<td>• Create designated trails and access points. Install low fencing if necessary</td>
</tr>
<tr>
<td></td>
<td>• Partially modify existing Dog Play Areas to on-leash</td>
</tr>
<tr>
<td>MA-1b</td>
<td>• Maintain diverse native grassland</td>
</tr>
<tr>
<td></td>
<td>• Augment sensitive plant populations</td>
</tr>
<tr>
<td></td>
<td>• Reintroduce sensitive plants</td>
</tr>
<tr>
<td>MA-1c</td>
<td>• Maintain diverse native grassland</td>
</tr>
<tr>
<td></td>
<td>• Augment sensitive plant populations</td>
</tr>
<tr>
<td></td>
<td>• Reintroduce sensitive plants</td>
</tr>
<tr>
<td>MA-2a</td>
<td>• Maintain and enhance grassland</td>
</tr>
<tr>
<td></td>
<td>• Reintroduce sensitive plants</td>
</tr>
<tr>
<td>MA-2b</td>
<td>• Maintain and enhance grassland</td>
</tr>
<tr>
<td></td>
<td>• Reintroduce sensitive plants</td>
</tr>
<tr>
<td>MA-3a</td>
<td>• Maintain and enhance native grassland</td>
</tr>
<tr>
<td></td>
<td>• Allow important nectar/food/seed invasive plants to persist for wildlife</td>
</tr>
<tr>
<td>MA-3b</td>
<td>• Maintain and enhance scrub-grassland-urban forest mosaic</td>
</tr>
</tbody>
</table>

Natural Area Wide Management Actions
- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain (including possible new trails): 8,159 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 100
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate
- No change to existing Dog Play Area unless specified above
Mgmt Area | Action
--- | ---
MA-1a | Maintain grassland-coastal scrub mosaic
MA-1b | Maintain diverse native grassland
 | Augment sensitive plant populations
 | Augment Mission blue butterfly habitat
 | Reintroduce sensitive plants
MA-2a | Maintain and enhance native grassland
 | Augment Mission blue butterfly habitat
MA-3a | Maintain and enhance urban forest-scrub-grassland mosaic
 | Allow important nectar/larval/seed invasive plants to persist for wildlife

Natural Area Wide Management Actions

- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain: 1,855 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 20
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

Management Areas

<table>
<thead>
<tr>
<th>Management Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>brown</td>
</tr>
<tr>
<td>management area 1</td>
</tr>
<tr>
<td>primary</td>
</tr>
<tr>
<td>management area 2</td>
</tr>
<tr>
<td>management area 3</td>
</tr>
</tbody>
</table>

Trails

- brown: primary
- green: secondary

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFSUGIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.'s StreetMap 2005 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1 Foot Resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 28, 2005 by Debra Dayer, San Francisco State University, Institute for Geographic Information Science; revised August 25, 2005.
Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFSU GIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1 Foot Resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 28, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.

FIGURE 6.10 - 5
MANAGEMENT AREAS AND TRAIL PLAN
Buena Vista Park
Significant Natural Resource Areas Management Plan
San Francisco, California
**FIGURE 6.11 - 5**  
**MANAGEMENT AREAS AND TRAIL PLAN**

**Corona Heights**  
Significant Natural Resource Areas Management Plan  
San Francisco, California

**Management Areas**
- management area 1  
- management area 2  
- management area 3

**Trails**
- primary  
- secondary

**Natural Area Wide Management Actions**
- Reduce and contain herbaceous and woody weeds  
- No invasive tree removal unless specified above  
- Prevent recruitment of invasive trees unless specified above  
- Total trails to remain: 4,856 linear-feet  
- Provide access on designated trails only  
- Social trails subject to closure  
- Total invasive trees to remove: 15; Total invasive trees to remain: 185  
- Implement erosion control as required (GR-12)  
- Implement wildlife enhancements as appropriate  
- No change to existing Dog Play Area

**Mgmt Area**
- MA-1a  
- MA-1b

**Action**
- Remove 1 invasive tree  
- Maintain diverse native grassland  
- Augment sensitive plant populations

**Mgmt Area**
- MA-2a  
- MA-2b

**Action**
- Maintain and enhance coastal scrub-grassland mosaic  
- Maintain and enhance coastal scrub-grassland mosaic, with oak at margin for wildlife  
- Augment use of steep western slopes by dogs and people. Install fences if necessary

**Mgmt Area**
- MA-3a  
- MA-3b  
- MA-3c  
- MA-3d

**Action**
- Maintain and enhance coastal scrub-grassland mosaic  
- Maintain and enhance urban forest  
- Augment sensitive plant populations  
- Reintroduce sensitive species  
- Maintain and enhance urban forest-grassland mosaic  
- Maintain and enhance urban forest-grassland mosaic  
- Augment sensitive plant populations  
- Reintroduce sensitive species  
- Maintain and enhance urban forest-grassland mosaic  
- Augment sensitive plant populations  
- Reintroduce sensitive species  
- Maintain and enhance urban forest-grassland mosaic  
- Augment sensitive plant populations  
- Reintroduce sensitive species  
- Maintain and enhance urban forest-grassland mosaic  
- Augment sensitive plant populations  
- Reintroduce sensitive species

**Source:** Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFU IGI), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD92

Map created May 29, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.
### Management Areas and Trails

<table>
<thead>
<tr>
<th>Management Area</th>
<th>Action</th>
</tr>
</thead>
</table>
| MA-1a           | • Remove 5 invasive trees  
                  • Maintain grassland |
| MA-2a           | • Remove approximately 5 invasive trees  
                  • Maintain and enhance grassland-scrub-oak woodland mosaic |
| MA-2b           | • Remove 4 invasive trees  
                  • Maintain and enhance native scrub  
                  • Introduce sensitive plants  
                  • Maintain existing fence for safety |
| MA-3a           | • Maintain and enhance urban forest  
                  • Maintain existing fence for safety |

**Natural Area Wide Management Actions**
- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain: 771 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 14; Total invasive trees to remain: 86
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

**FIGURE 6.24 - 4**

**MANAGEMENT AREAS AND TRAIL PLAN**

Dorothy Erskine

Significant Natural Resource Areas Management Plan
San Francisco, California

Map created May 28, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2006.
Natural Area Wide Management Actions
- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain: 333 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 0
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2006; trails data digitized by San Francisco State University Institute for GISc (SFSU IGS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI) Inc.'s StreetMap, 2001 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1883, map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Desper, San Francisco State University, Institute for Geographic Information Science; August 23, 2005.
### Natural Area Wide Management Actions

- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain (including possible new trails): 1,185 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 300
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

---

**FIGURE 6.25 - 5**

**MANAGEMENT AREAS AND TRAIL PLAN**

**Edgehill Mountain**
Significant Natural Resource Areas Management Plan
San Francisco, California
Management Areas

- MA-3a

Natural Area Wide Management Actions
- Maintain and enhance urban forest
- Preserve views to the east by maintaining shrub-grassland communities
- Allow important nectar/larval/seed invasive plants to persist for wildlife

- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain: 187 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 100
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

FIGURE 6.26 - 4
MANAGEMENT AREAS
AND TRAIL PLAN

Fairmount Park
Significant Natural Resource Areas
Management Plan
San Francisco, California

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFU IGIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1 foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 25, 2005.
Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Area Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFSUGIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.'s Street-Map 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.

FIGURE 6.5 - 19
MANAGEMENT AREAS AND TRAIL PLAN
Golden Gate Heights
Significant Natural Resource Areas
Management Plan
San Francisco, California
Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFSU GIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.'s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1 Foot Resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 28, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.
Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005, trails data digitized by San Francisco State University Institute for GISc (SFSU/IGIS), 2005; street data excerpted from Environmental Systems Research Institute (ESRI), Inc.’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photogra phy San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1 foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Diewer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.

FIGURE 6.5 - 18
MANAGEMENT AREAS
AND TRAIL PLAN

Rock Outcrop
Significant Natural Resource Areas
Management Plan
San Francisco, California

<table>
<thead>
<tr>
<th>Mgmt Area</th>
<th>Action</th>
</tr>
</thead>
</table>
| MA-1a     | • Maintain dune scrub-rock outcrop plant communities with scattered open sand  
|           | • Augment sensitive plant populations  
|           | • Reinroduce sensitive plants |
| MA-2a     | • Maintain and enhance dune scrub-rock outcrop plant communities  
|           | • Augment sensitive plant populations |

Natural Area Wide Management Actions
• Reduce and contain herbaceous and woody weeds  
• No invasive tree removal unless specified above  
• Prevent recruitment of invasive trees unless specified above  
• Provide access on designated trails only  
• Social trails subject to closure  
• Total invasive trees to remove: 0; Total invasive trees to remain: 0  
• Implement erosion control as required (GR-12)  
• Implement wildlife enhancements as appropriate
**Natural Area Management Areas**

- MA-1a
  - Maintain salt marsh wetland
  - Augment sensitive plant populations
  - Discourage public access in wetland except on designated trails. Install fences if necessary
- MA-2a
  - Maintain and enhance a grassland-scrub wetland buffer
- MA-2b
  - Maintain and enhance a grassland-scrub mosaic with trees for shade and habitat
  - Beautify entrances by landscaping with showy habitat plants

**Natural Area Wide Management Actions**

- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain: 1,885 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 0
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

---

**Source:** Management areas and trails data collected by San Francisco Department of Recreation and Parks Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GIS (SFUSGIS), 2003; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.'s StreetMap 2000 data copyright ESRI 1998-2001; aerial photograph San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science, revised August 21, 2005.

---

**FIGURE 6.18 - 5**

**MANAGEMENT AREAS AND TRAIL PLAN**

India Basin Shoreline Park

Significant Natural Resource Areas Management Plan
San Francisco, California

---

**Legend**

- management area 1
- management area 2
- primary
- secondary
Management Areas

- **MA-2a**
  - Remove approximately 100 invasive trees
  - Maintain and enhance scrub habitat
  - Augment sensitive plant populations
  - Reintroduce sensitive plants
  - Develop a new hiking trail

- **MA-2b**
  - Maintain and enhance scrub habitat
  - Augment sensitive plant populations
  - Reintroduce sensitive plants

- **MA-2c**
  - Remove approximately 40 invasive trees
  - Maintain and enhance creek habitat
  - Augment sensitive plant populations
  - Reintroduce sensitive plants

- **MA-3a**
  - Maintain and enhance urban forest

**Natural Area Wide Management Actions**

- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain (including possible new trails): 1,555 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 140; Total invasive trees to remain: 5,860
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Area Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GIS (SFU IGIS), 2005; stream data excerpted from Environmental Systems Research Institute (ESRI). Inc’s Street-Map 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002; Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983, map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Duvoie, San Francisco State University, Institute for Geographic Information Science; revised November 15, 2005.

**FIGURE 6.23 - 5**

**MANAGEMENT AREAS AND TRAIL PLAN**

**Interior Greenbelt**

Significant Natural Resource Areas Management Plan
San Francisco, California
FIGURE 6.13 - 4
MANAGEMENT AREAS
AND TRAIL PLAN

Kite Hill
Significant Natural Resource Areas
Management Plan
San Francisco, California

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GIS (SFUSI/IGIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc’s Street-Map 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002; Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983, map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.
MA-1a
- Remove approximately 50 invasive trees
- Develop and maintain mixed scrub-forest riparian habitat for quail
- Reintroduce sensitive plants
- Augment food plants for quail
- Limit foot traffic in the creek
- Modify existing Dog Play Area to restrict access to 0.6 acre of creek; convert 7.7 acres of the 60 acre area to on-leash

MA-1b
- Maintain wet meadow
- Reintroduce sensitive plants

MA-1c
- Remove approximately 5 invasive trees
- Maintain riparian wetland
- Augment sensitive plant populations
- Reintroduce sensitive plants

MA-1d
- Remove approximately 20 invasive trees
- Maintain rich native grassland
- Reintroduce sensitive plants

MA-1e
- Remove approximately 60 invasive trees
- Maintain rich native grassland
- Augment sensitive plant populations
- Augment Mission blue butterfly habitat
- Reintroduce sensitive plants
- Monitor potential impacts to endangered Mission blue butterfly habitat and install outside fencing if necessary.

MA-2a
- Remove approximately 40 invasive trees
- Maintain and enhance rich grassland-scrub mosaic
- Augment sensitive plant populations
- Reintroduce sensitive plants

MA-2b
- Remove approximately 600 invasive trees
- Maintain and enhance a diverse grassland & mixed forest ecotone, with scattered oaks
- Augment sensitive plant populations
- Augment wetland habitat
- Reintroduce sensitive plants

MA-2c
- Maintain and enhance riparian-wet meadow-scrub mosaic
- Reintroduce sensitive plants

MA-2d
- Maintain and enhance diverse scrub-grassland-rock outcrop mosaic
- Reintroduce sensitive plants

MA-3a
- Maintain and enhance urban forest
- Augment wetland habitat

MA-3b
- Maintain and enhance grassland for raptor foraging
- Allow important nectar/valve seed invasive plants to persist for wildlife
- No change to existing OPAs

MA-3c
- Maintain and enhance urban forest with a native tree and scrub ecotone
- Augment wetland habitat

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFSU-IGIS), 2005; street data excerpted from Environmental Systems Research Institute (ESRI), Inc.’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1 Foot Resolution - 2001; City of San Francisco Department of Public Works, San Francisco; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 10.0 software by ESRI.

Map created May 29, 2005 by Delma Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2006.

FIGURE 6.19-13
MANAGEMENT AREAS AND TRAIL PLAN
McLaren Park
Significant Natural Resource Areas Management Plan
San Francisco, California
Management Areas

MA-1a
- Maintain diverse native grassland
- Establish and manage plant populations
- Reduce weeds
- Limit access including dogs to trails

MA-1b
- Maintain rich native scrub
- Increase and manage plant populations
- Reduce weeds
- Limit access including dogs to trails

MA-1c
- Remove approximately 1,000 small and medium sized invasive trees
- Maintain Pacific red grass prairie
- Establish and manage plant populations
- Reduce weeds
- Limit access including dogs to trails

MA-2a
- Maintain and enhance grassland-scrub mosaic

MA-2b
- Maintain and enhance grassland

MA-2c
- Remove approximately 200 invasive trees
- Maintain and enhance structurally diverse cypress and oak trees, native berry-producing scrub, and Pacific red grass prairie
- Establish and manage plant populations
- Reduce weeds
- Limit access including dogs to trails

MA-3a
- Maintain and enhance a elderberry-scrub Pacific red grass mosaic
- Establish and manage plant populations
- Reduce weeds
- Limit access including dogs to trails

MA-3b
- Maintain and enhance a elderberry-scrub Pacific red grass mosaic
- Establish and manage plant populations
- Reduce weeds
- Limit access including dogs to trails

Natural Area Wide Management Actions
- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain: 12,589 linear feet
- Provide access on designated trails only
- Desired invasive trees to remain: 1,600; Total invasive trees to remain: 9,400
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park. Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GIScience (SFSU/IGIS), 2005; streets data extracted from Environmental Systems Research Institute (ESRI), Inc.'s StreetMap 2000 data copyright ESRI 1996,2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Dwyer, San Francisco State University Institute for Geographic Information Science (SFSU/IGIS); revised August 22, 2005.

FIGURE 6.2 - 5
MANAGEMENT AREAS AND TRAIL PLAN

Mt. Davidson

Significant Natural Resource Areas Management Plan
San Francisco, California
<table>
<thead>
<tr>
<th>Mgmt Area</th>
<th>Action</th>
</tr>
</thead>
</table>
| MA-1a     | • Maintain diverse native grassland  
• Reintroduce sensitive plants  
• Close hazardous trail |
| MA-2a     | • Remove 2 previously cut invasive trees  
• Maintain and enhance grassland-scrub mosaic  
• Close hazardous trail |
| MA-3a     | • Maintain forest grassland  
• Allow important nectar/larval/seed invasive plants to persist for wildlife  
• Explore options for expanding public access |

**Natural Area Wide Management Actions**
- Reduce and contain herbaceous and woody weeds  
- No invasive tree removal unless specified above  
- Prevent recruitment of invasive trees unless specified above  
- Total trails to remain (including possible new trails): 1,018 linear-feet  
- Provide access on designated trails only  
- Social trails subject to closure  
- Total invasive trees to remove: 2; Total invasive trees to remain: 38  
- Implement erosion control as required (GR-12)  
- Implement wildlife enhancements as appropriate

**FIGURE 6.20 - 4**
**MANAGEMENT AREAS AND TRAIL PLAN**

**Palou Phelps**
Significant Natural Resource Areas Management Plan
San Francisco, California

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GIScience (SFU-Igis), 2005; street data excerpted from Environmental Systems Research Institute (ESRI), Inc’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photographs San Francisco Department of Public Works, 2002; Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983, map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.
FIGURE 6.7-5
MANAGEMENT AREAS AND TRAIL PLAN

Pine Lake

Significant Natural Resource Areas
Management Plan
San Francisco, California

Management Areas

 Trails

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trail data digitized by San Francisco State University Institute for GISc (SFU IGIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.’s StreetMap 2000 data copyright ESRI 1998-2001; aerial photography San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 29, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.

Table:

<table>
<thead>
<tr>
<th>Mgmt Area</th>
<th>Action</th>
</tr>
</thead>
</table>
| MA-1a     | • Maintain tule marsh  
           | • If found, relocate western pond turtle to Lake Merced  
           | • Consider reintroducing Pacific chorus frog  
           | • Reduce and contain invasive aquatic plant species, such as Ludwigia  
           | • Restrict dog access to tule marsh and water’s edge |
| MA-2a     | • Maintain and enhance riparian and coastal scrub  
           | • Maintain and enhance oak woodland-coastal scrub mosaic  
           | • Maintain views  
           | • If found, relocate western pond turtle to Lake Merced  
           | • Introduce sensitive plants  
           | • Limit access including dogs to designated trails, platforms and overlooks, install temporary fencing, if necessary |
| MA-2b     | • Maintain and enhance riparian habitat  
           | • Protect red-tailed hawk nest  
           | • Maintain and enhance urban forest  
           | • Improve or re-route concrete trail at west end  
           | • Maintain and enhance a riparian corridor |

Natural Area Wide Management Actions
• Reduce and contain herbaceous and woody weeds  
• No invasive tree removal unless specified above  
• Prevent recruitment of invasive trees unless specified above  
• Total trails to remain (including possible new trails): 2,562 linear-feet  
• Provide access on designated trails only  
• Social trails subject to closure  
• Total invasive trees to remove: 0; Total invasive trees to remain: 1,000  
• Implement erosion control as required (GR-12)  
• Implement wildlife enhancements as appropriate  
• No change to existing Dog Play Area
### FIGURE 6.4-5

**MANAGEMENT AREAS AND TRAIL PLAN**

**Sharp Park**

**Significant Natural Resource Areas Management Plan**

San Francisco, California

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**Management Areas**

- **management area 1**
  - primary
- **management area 2**
  - secondary
- **management area 3**
  - proposed

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**Map created May 28, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 24, 2005.**

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GIS (SFUSI GIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.’s StreetMap 2000 data copyright ESRI 1998-2003; aerial photography from HFW for NAP, 1995, 2-foot panchromatic, all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.
Management Areas

- MA-1a
- MA-2a
- MA-2b
- MA-3a
- MA-3b
- MA-3c

Natural Area Wide Management Actions
- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Total trails to remain: 1,261 linear-feet
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 50
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

FIGURE 6.14 - 5
MANAGEMENT AREAS AND TRAIL PLAN

Tank Hill
Significant Natural Resource Areas
Management Plan
San Francisco, California
Management Areas

FIGURE 6.16 - 4
MANAGEMENT AREAS
AND TRAIL PLAN

15th Avenue Steps

Significant Natural Resource Areas
Management Plan
San Francisco, California

Source: Management areas and trails data collected by San Francisco Department of Recreation and Park Natural Areas Program (NAP), 2005; trails data digitized by San Francisco State University Institute for GISc (SFSU IGIS), 2005; streets data excerpted from Environmental Systems Research Institute (ESRI), Inc.'s Street-Map 2000 data copyright ESRI 1998-2005; aerial photog-raphy San Francisco Department of Public Works, 2002, Orthophoto - San Francisco - 1-foot resolution - 2001; all data are in California State Plane Zone III projection, NAD 1983; map produced using ArcGIS 9.0 software by ESRI.

Map created May 28, 2005 by Debra Dwyer, San Francisco State University, Institute for Geographic Information Science; revised August 23, 2005.

<table>
<thead>
<tr>
<th>Mgmt Area</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA-2a</td>
<td>Maintain and enhance oak woodland and coastal scrub</td>
</tr>
</tbody>
</table>

Natural Area Wide Management Actions
- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive trees to remove: 0; Total invasive trees to remain: 0
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate
MANAGEMENT AREAS

Everson/Digby

Significant Natural Resource Areas
Management Plan
San Francisco, California

FIGURE 6.27-4

Mgmt Area | Action
---------|------------------
MA-1a | Maintain diverse native grassland
       | Reintroduce sensitive plants
MA-2a | Maintain and enhance grassland
MA-3a | Maintain and enhance multi-storied forest-scrub ecotone with oaks, and buckeye

Natural Area Wide Management Actions

- Reduce and contain herbaceous and woody weeds
- No invasive tree removal unless specified above
- Prevent recruitment of invasive trees unless specified above
- Provide access on designated trails only
- Social trails subject to closure
- Total invasive tree removal: 0; Total invasive trees to remain: 0
- Implement erosion control as required (GR-12)
- Implement wildlife enhancements as appropriate

Source: Orthophoto - SFDT, 2007; Street Data - SFDPW, 2009; Significant Natural Area Data created by RPD Planning from information provided by RPD Natural Area Program, 2010; All Data are NAD 1983 StatePlane California III FIPS 0403 Feet

Created by Sean Stasio, SFRPD Planning Division for SFRPD Significant Natural Areas Program, November 2010