

Attachment 2 – Comparison of Options

	<b>Option 1 (Staff Recommendation)</b> <b>Hazardous Tree Removal Before Habitat Management Plan</b> <i>Timing:</i> <b>Tree Removal: Immediate Habitat Management Plan and restoration 3 to 5 years</b> <i>Permit Type:</i> Emergency Permit, Follow-on CDP and DP	<b>Option 2</b> <b>Targeted Care for Dying Trees with Significant Value</b> <i>Timing:</i> <b>Tree Removal: Immediate Habitat Management Plan and restoration 3 to 5 years</b> <i>Permit Type:</i> Emergency Permit, Follow-on CDP and DP or Monarchs	<b>Option 3</b> <b>Phased Tree Removal Plan</b> <i>Timing:</i> begin tree removal immediately in target area, timing on remainder of grove uncertain <b>Habitat Management Plan and restoration 3 to 5 years</b> <i>Permit Type:</i> Emergency Permit, CDP and DP	<b>Option 4</b> <b>Removal of Trees Rated “0” Only</b> <i>Timing:</i> <b>Tree Removal: Immediate Habitat Management Plan and restoration 3 to 5 years</b> <i>Permit Type:</i> Emergency Permit, Follow-on CDP and DP	<b>Option 5</b> <b>Tree Removal After Habitat Management Plan Approved</b> <i>Timing:</i> begin 4 to 5 Years <i>Permit Type:</i> CDP and DP	<b>Option 6</b> <b>Phased Tree Removal Plan</b> <i>Timing:</i> Tree removal in specific areas along public trails, timing on remainder of grove uncertain <b>Habitat Management Plan and restoration 3 to 5 years</b> <i>Permit Type:</i> Emergency Permit, CDP and DP
1	All trees rated 0 and 1 would be removed over the next 1-2 years, beginning immediately. Removal areas would be prioritized by safety, habitat, and recreation factors.	All trees rated 0 and 1, would be removed over the next 1-2 years, beginning immediately, except for 26 trees rated 1, which would remain under arborist care through the upcoming winter season. Removal areas would be prioritized by safety, habitat, and recreation factors.	All trees rated 0 and 1 would be removed from a single area, south of Ellwood North. Future actions and methods for 0 and 1 tree removal activity would be approved separately.	All trees rated 0 would be removed over the next 1-2 years, beginning immediately. Removal areas would be prioritized by safety, habitat, and recreation factors.	No trees rated 0 and 1 would be removed until a Habitat Management Plan is approved.	All trees rated 0 and 1 would be removed along specific trails. Future actions and methods for 0 and 1 tree removal activity would be approved separately.
2	Trees rated 0 and 1 would be removed.	All trees rated 0 and 1 would be removed. Removal of 26 trees with a 1 rating that provide short-term, but significant butterfly habitat would be delayed.	Trees rated 0 and 1 would be removed from the area south of Ellwood North.	Only trees rated 0 would be removed.	No trees would be removed at this time.	Trees rated 0 and 1 would be removed from specific trails.
3	Partial public access would be restored within 3-4 months, with full public access restored within 2 years.	Partial public access would be restored within 3-4 months, with full public access restored within 2 years.	Public access to some areas may be closed for up to 5 years. Earliest access restored to some areas in 3-4 months.	Partial public access would be restored within 3-4 months. Full public access would be delayed indefinitely due to danger posed by remaining 1-rated trees.	Public access to some areas may be closed for up to 10 years. Earliest access restored to some areas in 3 years.	Public access to some areas may be closed for up to 5 years. Earliest access restored to some areas in 3-4 months.
4	Stumps begin to sprout; replacement habitat begins to form. Some regrowth of young trees in localized areas following removal of dead/dying trees.	Stumps begin to sprout; replacement habitat begins to form. Some regrowth of young trees in localized areas following removal of dead/dying trees.	Some growth of young trees in localized areas following removal of dead/dying trees.	Some growth of young trees in localized areas following removal of dead/dying trees. Presence of dying (1-rated) trees inhibits new growth in other areas.	Growth and regeneration expected to be limited, due to fallen debris and shading. Delay in start of stump sprouting, lesser quality of replacement habitat.	Some growth of young trees in localized areas following removal of dead/dying trees.
5	No fencing necessary.	No fencing necessary.	Cost to fence around select groves, and heightened risk due to noncompliance of visitors.	Significant cost to fence around groves.	Significant cost to fence around groves.	Cost to fence around select groves, and heightened risk due to noncompliance of visitors.
6	Healthy trees protected from falling dead trees.	Healthy trees protected from falling dead trees.	Healthy trees may be damaged/killed by falling dead trees in some areas	Healthy trees damaged/killed by falling dying trees	Healthy trees damaged/killed by falling dead trees	Healthy trees may be damaged/killed by falling dead trees in some areas
7	Reduction in fire risk due to the reduction of fuels which includes removing downed limbs, tree debris and understory.	Reduction in fire risk due to the reduction of fuels which includes removing downed limbs, tree debris and understory.	Build-up of dry fuels in some areas, risk of fire spreading from those areas.	Build-up of dry fuels, increased fire risk.	Build-up of dry fuels, increased fire risk.	Build-up of dry fuels in some areas, risk of fire spreading from those areas.
8	Reduction in pests, maximizing the potential for remaining trees to resist pest damage.	Reduction in pests, maximizing the potential for remaining trees to resist pest damage.	Existing pests remain, further stressing health of trees.	Existing pests remain, further stressing health of trees.	Existing pests remain, further stressing health of trees.	Existing pests remain, further stressing health of trees.
9	Ability to patrol grove for homeless encampments.	Ability to patrol grove for homeless encampments.	Ability to patrol portions of grove for homeless encampments.	Crews cannot patrol looking for homeless encampments. Would need special groups of three or more so there are lookouts for falling trees and limbs.	Crews cannot patrol looking for homeless encampments. Would need special groups of three or more so there are lookouts for falling trees and limbs.	Ability to patrol portions of grove for homeless encampments.

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	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Option 4</b>	<b>Option 5</b>	<b>Option 6</b>
<b>10</b>	Hazard addressed, restoration completed over time. Apply for grants to augment funding, enabling areas to be quickly restored.	Hazard addressed, restoration completed over time. Apply for grants to augment funding, enabling areas to be quickly restored.	Hazard largely not addressed, restoration deferred except in removal area. Immediate restoration cost reduced due to small area of tree removal.	Hazard largely not addressed, restoration deferred. Seek grant funding to assist in Habitat Management Plan implementation when complete.	Hazard largely not addressed, restoration deferred. Seek grant funding to assist in Habitat Management Plan implementation when complete.	Hazard largely not addressed, restoration deferred except in removal area. Immediate restoration cost reduced due to small area of tree removal.
<b>11</b>	Cost effective, but removal costs concentrated over a 1 to 2-year period.	Cost effective, but removal costs concentrated over a 1 to 2-year period. Additional costs for second contractor mobilization to remove 26 remaining dying trees.	Costs for initial removal area spread over multiple years, but per-tree costs likely higher due to scale.	Initial removal costs concentrated over a 1 to 2-year period. Additional costs for subsequent contractor mobilization(s) likely to remove additional dead trees.	Removals and restoration likely to be coordinated and more complex; likely more expensive and long-term.	Costs for initial removal area spread over multiple years, but per-tree costs likely higher due to scale.
<b>12</b>	Imminent threats to grove abated, butterfly habitat persists. Restoration initiated to develop replacement habitat.	Imminent threats to grove abated, butterfly habitat persists. Restoration initiated to develop replacement habitat.	Threats to grove removed and restoration initiated in some areas.	Imminent threats to grove persist, increased risk of grove loss due to fire or pests. No immediate restoration. Butterfly conditions likely to deteriorate.	Imminent threats to grove persist, increased risk of grove loss due to fire or pests. No immediate restoration. Butterfly conditions likely to deteriorate.	Threats to grove removed and restoration initiated in some areas.
<b>13</b>	Expedited emergency processes with no CEQA review required (Immediate-1 month).	Expedited emergency processes with no CEQA review required (Immediate-1 month).	Full permitting processes and CEQA (minimum of 1 year)	Expedited emergency processes with no CEQA review required (Immediate-1 month).	Full permitting processes and CEQA (minimum of 1 year after the Habitat Management Plan is prepared)	Full permitting processes and CEQA (minimum of 1 year)