E COMMUNITY COMMON

ARRIVAL PLANTING
Establish feature indigenous planting to reserve entrance. Feature planting should enhance existing grassland structure. In the longer term, investigate potential to commission sculptures with relevant (environmental/recycling) themes by local artists to nestle installations amongst plantings.

Improve existing vegetation structure with establishment of feature indigenous planting. Protect existing values with weed control. Ensure planting remains low to protect expansive views.

Improve floristic diversity with environmental burns. Restore original woodland structure with revegetation. Refer vegetation management report.

CAR PARK #1 AND TRAIL HEAD RECREATION FACILITIES
Sealed carpark #1 provides parking for approximately 40 vehicles. Create a grassy open space adjacent to carpark #1 to provide passive recreation opportunities and breakout space for visitors and school groups. The picnic area and grassy open space marks the start of the Mt Holden Reserve trail network.

Create a viewing/rest point for visitors to enjoy the expansive views.

F RESERVE ENTRY SCULPTURES

Confirm future fire access requirement and provision of water supply with CTA, subject to site constraints and services and water supply capacity on site.

MT HOLDEN RESERVE TRAIL NETWORK
Provision of an integrated unsealed looped trail network approximately 2m wide which provides walking, cycling and recreational opportunities for visitors. Trail also provides access for CFA, emergency and maintenace vehicles.

CARPARK #2
Sealed car park #2 provides parking for approximately 40 vehicles. A drop off area is provided at the north of the community common. Run off from this carpark is collected and treated at the adjacent water quality pond.

Enhance existing structure with environmental burns to control weed species and improve floristic diversity. Progressively replace non-indigenous species with site indigenous trees and shrubs to restore original woodland structure and maintain fire break on boundary. Refer vegetation management report.

COMMUNITY/GRASSY COMMON AND EVENT SPACE
Form a flat area to the western extent of the capped landfill as shown. An open grassy common would become a valued community space for informal recreation hosting of large scale community events such as outdoor concerts.

High standard farm fencing to be maintained with rural property boundaries, controling stock and detering dog access with clear signage at access points indicating private property

Buffer adjacent titles with establishment of indigenous revegetation and maintain fire break on boundary. Species to be derived from the Plains Grassy Woodland/Stony Knoll Shrubland Mosaic EVCs.

Protect rock holes which provide significant habitat to native fauna and existing vegetation values by restricting public access to this area. Undertake weed control to protect vegetation values. Refer vegetation management report.

Remove underutilised road and rehabilitate with revegetation.

Revegetate conservation area with understorey species derived from the Plains Grassy Woodland EVC. Provide protection for habitat by establishing midstorey/overstorey buffer to perimeter, maintaining fire break on boundary.

Undertake revegetation of this area using shrub and overstorey species derived from the Plains Grassy Woodland EVC.

Establish rest points along trail to provide viewing/reflection opportunities for trail users.

In the short term bund leachate irrigation area and undertake weed control to remove Spiny Rush infestation. Following closure of landfill rehabilitate area with indigenous revegetation.

LEACHATE POND
In the short term clay line the leachate pond. Following closure and rehabilitation of landfill, fill leachate pond and rehabilitate with indigenous revegetation.

Establish large areas of strong and dense indigenous tufted species to erosion gully heads to assist in gully head stablisation. Refer to vegetation management report.

Establish an unsealed shared trail link through this area with rest points. Trail provides visitors with a recreational experience through a natural 'bush' type environment.

Erect low post and wire fence to create a 'no public access' conservation zone. Provide signage alerting to the significant environmental values in this area. Low fencing enables unconstrained habitat movement. Inbvestigate angled fencing to enable kangaroo movement and restrict visitor access.

Due to severe surface erosion, Council to strongly encourage landholder to minimise land disturbance practices such as cultivation and grazing by hard hoofed animals, and to provide recommendations for land rehabilitation techniques to landholder.

WASTE TRANSFER STATION.
This area is to remain a waste transfer/recycling station. The depot could become a community hub offering exchange opportunities as well as recycling education for school groups.

Establish planted swale to north of capped landfill to treat any surface runoff from cap. Swales to carry any excess water from carpark #2 to water quality pond to lower level ponds.

WATER TREATMENT PONDS
Following tip closure and leachate collection period, rehabilitate 3 No. leachate collection ponds into water quality wetlands. Plant with appropriate indigenous wetland species to provide habitat for local fauna.

FINAL CAP PROFILE
Undertake further design development to create a naturalistic valley form for final capped profile. The final profile should respond to the valley form of the surrounding environment.

Establish planted swales to south of capped landfill to treat any surface runoff from cap swales, terminating at sediment treatment ponds.

Consolidate existing vegetation values with weed control followed by revegetation with species derived from the Escarpment Shrubland EVC. Refer vegetation management report.

Investigate construction of rock stabilisation to gully to form trail abutments. Install appropriate stormwater pipes to base of trail abutment to allow water to pass under trail. Provide signage alerting visitors to unstable geological risks at this point. Undertake further geological, hydrological, structural and landscape investigations and design prior to construction of crossings and silt barrier locations.

EROSION GULLY INVESTIGATION
In the medium term, undertake further investigation of the erosion gullies in this area. Assessment to include detailed mapping of vegetation cover, soils and erosion types and recommendations for stabilisation. Investigation to be undertaken by a hydrogeologist in association with a botanist. Refer to vegetation management report.

Investigate installation of sediment capture fences at approximately 50m intervals to trap and accumulate sediment in gullies.

Following weed control, revegetate area with species derived from the Grassy Shrubland EVC. Refer vegetation management report.

Investigate construction of rock stabilisation to gully to form trail abutments. Install appropriate stormwater pipes to base of trail abutment to allow water to pass under trail. Provide signage alerting visitors to unstable geological risks at this point. Undertake further geological, hydrological, structural and landscape investigations and design prior to construction of crossings and silt barrier locations.

Erect post and wire fence to perimeter of high risk erosion gully area. Provide signage alerting to hazardous unstable geological nature of gullies. Signage could potentially describe the naturally occurring erosion processes. Fence to be 1.2m high to allow habitat movement. Investigate angled fencing to enable kangaroo movement and restrict visitor access.

Revegetate area in patches with tree and shrub species derived from the Scoria Cone Woodland EVC.

MT HOLDEN CLIMB (NORTH EAST)
Construct 1.5m unsealed walking trail with steps up north-east of Mt. Holden with rest benches for visitors to enjoy expansive views. Trail to be cut into slope to reduce visual impact on Mt. Holden. Two routes are provided for a varied visitor experience. Routes to be designed and sited to minimise disturbance to geology and environmental values.

Restore degraded vegetation condition of Mt. Holden east with weed control followed by appropriate revegetation with understorey/midstorey/overstorey species derived from the Scoria Cone Woodland EVC. Refer vegetation management report.

Provide local entry connections where shown. Establish indigenous feature planting to denote entry point. Provide signage outlining walking track distances and reserve rules and regulations i.e. no motorbike access. Monitor litter and consider future provision of bins at entry points, subject to council policy and approval.

Provide buffer to rear boundary fences with indigenous planting with nominal 10m setback buffer. Establish dense indigenous understorey to out compete weed species.

MT HOLDEN EAST REST POINT
Create a low key and visually sensitive viewing area to top of Mt. Holden east. Area to include low seating benches, feature indigenous planting and interpretative signage describing the environmental, historical and cultural context of Mt Holden.

Integrate provision of local parking opportunities for park visitors at this major park entry point, subject to council investigations.

EXISTING REMNANT VEGETATION
Prioritise weed control works to areas containing remnant vegetation. Protection of this vegetation is critical given the overall degraded nature of vegetation on Mt Holden. Ensure escarpments are protected during environmental burns.

Integrate entry point planting with development reserve landscaping. Provide signage outlining walking track distances and reserve rules and regulations i.e. no motorbike access.

MT HOLDEN LOOP TRAIL
Create a 2.5m loop trail to the base of Mt. Holden (2.2km). Loop trail provides a unique recreational opportunity for local residents. Protect significant escarpment with short section of elevated boardwalk only if and where necessary to transition through some sensitive sites. Maintain trafficable width on loop trail and vehicle entry points of 3.6m. Trail curvature and grades subject to Detailed Design and site constraints and liaison with CFA.

PLANTED PROTECTION BUND
Investigate earthen bund to base of Mt. Holden to provide protection from loose rock on upper escarpments and valley slope in accordance with Geotechnical Report recommendations. Establish midstorey and overstorey planting to upper side of bund to screen bund from top of Mt Holden and assist with intercept of tumbled rock. Alignment of bund to avoid remnant vegetation where possible. Subject to further Geotechnical investigation.

MT HOLDEN WEST REST POINT
Create a visually sensitive viewing area to top of Mt. Holden west. Area to include low seating benches, feature indigenous planting and interpretative signage describing the environmental, historical and cultural context of Mt Holden.

Establish overstorey/midstorey/understorey revegetation to improve habitat values. Species to be derived from the Grassy Woodland EVC. Maintain 10m fire break.

Investigate construction of rock stabilisation to gully to form trail abutments. Install appropriate stormwater pipes to base of trail abutment to allow water to pass under trail. Provide signage alerting visitors to unstable geological risks at this point. Undertake further geological, hydrological, structural and landscape investigations and design prior to construction of crossings and silt barrier locations.

BOURKES HILL REST POINT
Create a low key and visually sensitive viewing area to Bourkes Hill. Rest point to include low seating, feature indigenous planting and interpretative signage. Buffer adjacent title with indigenous midstorey and overstorey planting.

Continue ongoing weed management to control colonisations of groundcover weed species on Mt Holden west. Enhance existing grassland structure with revegetation with species derived from the Scoria Cone Woodland EVC. Note species should be low moisture tolerant. Refer vegetation management report. Continue ongoing rabbit control as part of ongoing site management.

MT HOLDEN CLIMB (WEST)
Construct trail/steps up western side of Mt. Holden with rest benches for visitors to enjoy expansive views. Trail to be cut into slope to reduce visual impact on Mt. Holden. Two routes are provided to ensure varied experience. Routes to be designed and sited to minimise disturbance to geology and environmental values.

Provide entry connection from Mount Drive and Views Terrace to Mt. Holden Reserve. Establish maintenance vehicle entry at Views Terrace. Establish feature indigenous planting to denote entry point. Provide signage outlining walking track distances and reserve rules and regulations i.e. no motorbike access.

PROJECT DESIGN PRINCIPLES

- To protect significant visual, geological and natural values at Mt Holden Reserve.
- To protect the unmodified character of Mt Holden reserve, by limiting the introduction of built infrastructure.
- To improve existing vegetation condition to create a healthy and sustainable ecology, improving habitat for significant indigenous vegetation and fauna.
- To rehabilitate the landfill site so it becomes a safe, cherished and useable space for future communities.
- To create a reserve for both the local and broader community that provides varied recreational experiences coupled with opportunities for environmental education and appreciation.
- To create a functional reserve that serves the current communities recreational needs and gradually develops to serve future communities following rehabilitation of the landfill.
- To provide cycling and pedestrian links to Mt Holden from existing networks.

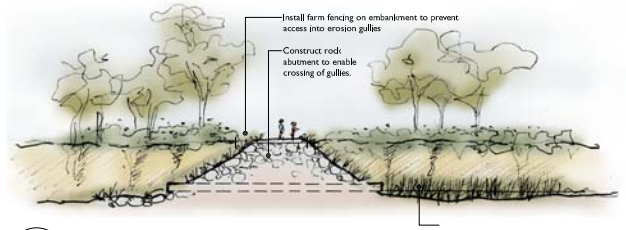
OVERALL MANAGEMENT RECOMMENDATIONS

Vegetation Management

- Developer to undertake weed control to Mt Holden East, followed by comprehensive revegetation of understorey/midstorey and overstorey vegetation
- Undertake weed control to high quality and moderate quality vegetation areas to protect and improve existing values
- Undertake ongoing weed control to strengthen existing revegetation areas

Fauna Management

- Undertake additional fauna survey to confirm species utilising the reserve and develop appropriate management recommendations for habitat protection.
- Undertake an investigation of the Eastern Grey Kangaroo population to determine sustainable management practices.



D ROCK STABILISATION AT GULLY CROSSING POINTS

PROJECT WORKS STAGING DIAGRAMS

NOTE: TIME FRAMES ARE INDICATIVE ONLY AND SUBJECT TO CHANGE DEPENDING ON FUNDING AND SYNERGIES OF WORKS.

0-3 YEARS

- Undertake works at Mt Holden to provide recreational reserve for rapidly growing community, including loop trail the base of Mt Holden
- Begin establishment of entry planting at landfill
- Undertake planting to erosion gully heads
- Establish revegetation to methane bench
- Protect existing vegetation values on rock escarpments and at rock holes

3-6 YEARS

- Undertake works to create steps up Mt Holden, minor rest points and viewing areas to top of Mt Holden
- Undertake weed control and establish revegetation of fenced conservation zone
- Undertake development of existing recycling depot and establish planting

6-10 YEARS

- Undertake weed control and establish revegetation to surrounds of landfill and waste transfer station
- Establish sediment pond east of treatment ponds
- Establish buffer planting along Landfill and Mt Holden titles

10-20 YEARS

- Create unsealed perimeter trail (including rock stabilisation at gully crossings) and viewing/rest areas
- Extend sealed roadway to new Carpark #1
- Create Carpark #1, adjacent picnic area and small community common

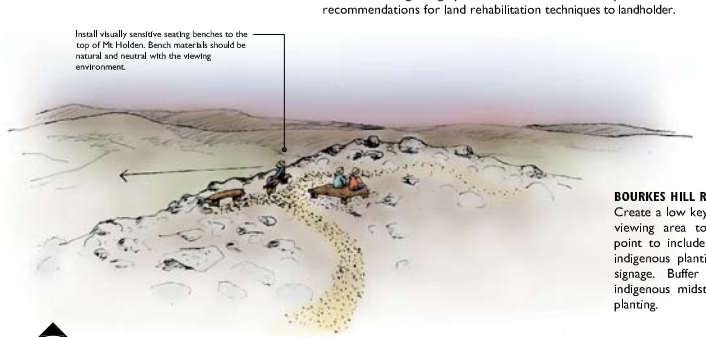
20+ YEARS

- Extend sealed roadway to community common and performance space
- Create Carpark #2 and sediment treatment pond
- Establish planting drainage swales to sides of landfill cap
- Create large community common and adjacent picnic area
- Rehabilitate upper leachate pond

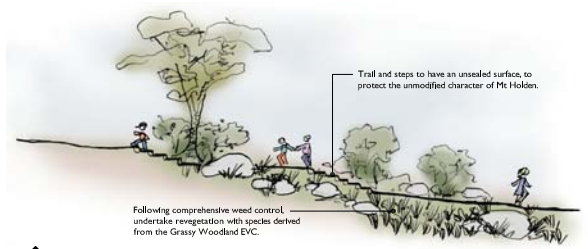
DRAWING KEY

NOTE: NUMBERS REFER TO PROJECT COSTING TEMPLATE

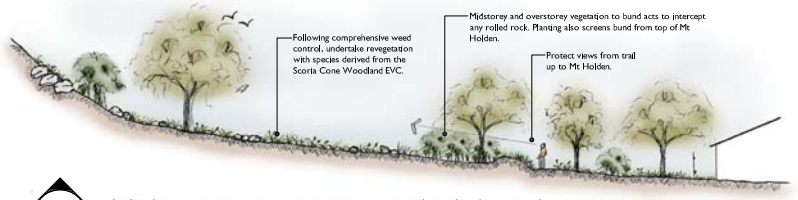
- PROPOSED INDIGENOUS OVERSTOREY TREES (1)
- PROPOSED INDIGENOUS GRASSLAND PLANTING (2)
- PROPOSED FEATURE INDIGENOUS PLANTING (3)
- PROPOSED INDIGENOUS REVEGETATION (4)
- PROPOSED SLASHED GRASS AREAS (5)
- PROPOSED INDIGENOUS PLANTING TO GULLY HEADS (6)
- PROPOSED WETLAND AREAS
- EXISTING VEGETATION TO BE PROTECTED
- EXISTING EROSION GULLIES
- SEALED ROADS
- UNSEALED SHARED TRAILS
- EXISTING ROCK ESCARPMENTS
- PROPOSED ROCK STABILISATION
- MAJOR VIEWING / REST POINTS
- MINOR VIEWING / REST POINTS
- PROPOSED PICNIC AREAS
- SIGNIFICANT VIEW LINES
- MAJOR PEDESTRIAN ENTRY POINTS
- MINOR LOCAL PEDESTRIAN ACCESS
- EXISTING LANDFILL FENCE
- PROPOSED POST AND WIRE FENCE (1.2m HIGH)
- SWALE
- HIGH SAFETY RISK ZONE
- COUNCIL OWNED LAND
- LAND TO BE TRANSFERED TO COUNCIL
- CADASTRE
- 10m CONTOURS



C TYPICAL SECTION C - INFORMAL VIEWING AREAS TO TOP OF MT HOLDEN



B TYPICAL SECTION B - INFORMAL PATHWAY AND STEPS UP MT HOLDEN



A SECTION A - PATHWAY AND EARTH BUND TO BASE OF MT HOLDEN

THOMPSON BERRILL LANDSCAPE DESIGN P/L
PO BOX 2157 PRAHRAN VIC 3181 T: 9530 2333 E: info@tbld.com.au

HUME CITY COUNCIL

Mt HOLDEN RESERVES MASTERPLAN

FINAL
JULY 2008
MHMP-02
SHEET 1 OF 1
SCALE 1:4000@A0