HUNTER VALLEY
OPERATIONS

BUSHFIRE MANAGEMENT

DOCUMENT NUMBER
HVOOC-1797567310-41

STATUS
Approved

VERSION
5.0

EFFECTIVE
19/07/2023

REVIEW
19/07/2025

OWNER
Environment and Community Officer

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1 | PURPOSE

The purpose of this Plan is to identify bushfire threat, assets at risk and provide the preventative measures to be undertaken to protect human life and minimise impacts on property from the threat of bushfire.

Hunter Valley Operations (HVO) requires effective measures in place to prepare for, mitigate, control and recover from incidents which have the potential to affect or disrupt the business and/or its operations. Measures related to bushfire management are detailed in this Plan.

2 | SCOPE

The plan applies to all land within the HVO boundary, including operational and non-operational areas, as well as buffer lands. The location of the HVO boundaries is located in **Appendix A**.

3 | OBJECTIVES

The objectives of the Plan are to:

- mitigate risk of bushfire outbreak;
- manage ignition sources on site;
- mitigate risk to all personnel;
- protect and minimise damage to assets;
- minimise impact to surrounding neighbours;
- reduce the number of human-induced bushfire ignitions that cause damage to life, property and the environment;
- manage fuel to reduce the rate of spread and intensity of bushfires, while minimising environmental / ecological impacts;
- reduce the community's vulnerability to bushfires by improving its preparedness; and
- effectively contain fires with a potential to cause damage to life, property and the environment.

4 | BACKGROUND

This Plan has been prepared for HVO in accordance with:

- Schedule 3, Conditions 59 and 60 of HVO South Project Approval 06_0261;
- Schedule 3, Conditions 60 and 61 of the HVO North Development Consent 450-10-2003; and
- NSW Rural Fire Service Mining Industry Fact Sheet for Emergency Plans.

Bushfire is a significant land management issue in the Greater Hunter Fire Weather Area. HVO has a duty as a landowner under Section 63(2) of the *Rural Fires Act 1997* (RF Act) to prevent occurrence of bushfires and minimise danger of the spread of bushfires on the land that they manage.

4.1 | SITE DESCRIPTION

HVO is an open cut coal mine located north west of Singleton, New South Wales. The total landholding for HVO is approximately 14,000ha, including mine lease areas and surrounding buffer lands.

HVO comprises HVO North and HVO South, divided by the Hunter River.

4.2 | STATUTORY AND OTHER REQUIREMENTS

The NSW Resources Regulator as well as Work Health and Safety (WHS) legislation, outline the requirement for mine sites to develop emergency response plans. This Plan acts as a guideline in accordance with State and Federal legislation for the management bushfire emergencies on site.

This Plan has been developed in accordance with the management requirements for agricultural land outlined in the Glencore Coal Assets Australia (GCAA) 11.15 Land and Property Management Protocol.

4.2.1 | HVO NORTH DEVELOPMENT CONSENT (DA 450-10-2003)

Bushfire Management

60. The Applicant must: (a) ensure that the development is suitably equipped to respond to any fires on-site; and (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire onsite during the development.

61. The Applicant must ensure that the Bushfire Management Plan for the site is to the satisfaction of Council and the Rural Fire Service.

4.2.2 | HVO SOUTH PROJECT APPROVAL (PA 06_0261)

Fire Control

59. During the project, the Proponent must: (a) ensure that it maintains suitable equipment to respond to any fires on site; and (b) assist the rural Fire service and emergency services as much as possible if there is a fire on site.

60. The Proponent must ensure that it maintains a Fire Management Plan for the site, in consultation with Council and the Rural Fire Service.

5 | BUSHFIRE HAZARD

The biggest threats to HVO are bushfire and grass fire, with the risk to site dependent on both the location of the initial ignition point and fuel loads at the time of the fire.

The Hunter Valley Bushfire Management Committee (BFMC) Bushfire Risk Management Plan (2023) identifies that the Greater Hunter Fire Weather Area experiences major fires on a regular basis due to the historical occurrence of hot north westerly winds combined with ignitions caused by dry lightning storms. Fires generally travel in a south-easterly direction under the influence of those winds.

Hazards caused by bushfire may include:

- intense heat and flames
- smoke
- embers
- potential for power and water to be cut off
- reduced visibility
- potential for isolation of access/egress

5.1 | BUSHFIRE SEASON

The bushfire season for the Greater Hunter Fire Weather Area is typically declared from 1 of September to 31 March inclusive. This season is veriable from year to year based upon seaonal conditions.

5.2 | BUSHFIRE RISK

The main risk to the mining industry is from airborne burning embers from nearby bushfires falling onto fuel sources, buildings, stockpiles or infrastructure and setting them alight. There is also risk of bushfires in adjacent bushland, rural properties and neighbouring mine operations spreading onto the site.

The following is a list of risks that may cause the ignition of a bush/grass fire on, or around the mine site:

- lightning
- arson
- rail lines and maintenance of same; e.g. rail grinding
- power lines
- 'hot works' in bushland area
- spontaneous combustion
- illegal burning activities
- vehicle dumping and ignition

Activities deemed 'hot works' and therefore a high potential to cause ignition of bushfires such as welding, oxy cutting and frictional cutting are undertaken in designated 'hot work' areas. Should such works be required to be undertaken outside these designated areas, they shall be in accordance with the GCAA *Hot Work (Surface) Permit* system. No hot works will be permitted outside hot work areas on total fire ban days.

6 | PLANNING

6.1 | FIRE AWARENESS AND TRAINING

This plan will be communicated to, and made available to, HVO employees and contarcting personnel having a responsibility under the plan.

Daily fire danger ratings form part of site-wide morning pre-start meetings. During days of increased fire danger, an additional slide/s will be added to site-wide morning pre-start meetings to warn of the additional risk/s on those days.

The HVO Emergency Response Team (ERT) are trained in emergency, bushfire and wildfire response (Certificate III in Emergency Response and Rescue). The HVO ERT meet with the NSW RFS from time to time to discuss bushfire management strategies.

All operators of equipment are trained in the use of portable fire extinguishers, as per HVO Health and Safety requirements and *Australian Standard (AS) 5062, Fire Protection for Mobile and Transportable Equipment requirements.*

6.2 | EQUIPMENT

Various types of equipment able to respond to a bushfire incident are available across HVO and include, but are not limited to:

- 4-wheel drive firefighting appliances
- water carts (equipped with firefighting monitors and hose reels)
- dozers
- graders
- portable fire extinguishers, fire suppression units, fire depots

6.3 | ECONOMIC ASSETS

The following is a list of economic mine assets that may be threatened by bushfire:

- overland conveyer belts
- power lines and power poles
- substations
- water pipe lines
- Coal Handling Preparation Plants (CHPP's)
- coal train loading facilities
- fuel farms and other hydrocarbon / chemical storage areas
- explosives magazines
- communications towers
- offices and other buildings on operational areas
- mobile plant
- environmental monitoring equipment
- buffer lands including agricultural land, livestock, buildings, water tanks, etc.
- boundary fences
- ANE reload and bulk storage facilites

6.4 | ENVIRONMENTAL ASSETS

6.4.1 | FLORA

The area, and surrounding areas, upon which HVO operates have a history of agricultural activity (cropping and cattle grazing), mining activity and other associated land uses which have aligned with the general grassland vegetation community of the district.

Based on historical aerial photography, much of the woodland occurring across HVO is regrowth. Various vegetation surveys of these areas have occurred, and the woodland is being managed under various management plans and landholder requirements in accordance with State and Commonwealth legislation.

6.4.2 | FAUNA

Several threatened fauna species or their habitat have been recorded on site, including birds, reptiles and amphibians. Refer to the HVO Integrated Biodiversity Management Plan for more details.

6.4.3 | CULTURAL HERITAGE SITES

A number of Aboriginal and European cultural heritage sites exist across both HVO North and HVO South. Refer to:

- HVO South Aboriginal Cultural Heritage Management Plan
- HVO North Heritage Management Plan
- HVO Historic Heritage Management Plan

7 | BUSHFIRE MANAGEMENT MEASURES

7.1 | HAZARD MANAGEMENT

Management of lands must be undertaken in accordance with the appropriate licence conditions and legislation.

Under the *Rural Fires Act 1997*, the Rural Fire Service (RFS) is authorised to direct landholders, including HVO to undertake hazard reduction activities on their property.

7.1.1 | OPERATIONAL AREAS

7.1.1.1 | ACCESS TO SITE

The public access points to the mine site, as outlined in **Appendix A**, are via:

- HVO North – off Lemington Road (1011 Lemington Road, Lemington)
- Howick / West Pit – Pikes Gully Road from New England Highway
- HVO South – Arherfield Road, from Comleroi Road

7.1.1.2 | SITE SECURITY

Public access to HVO is via public roads (refer to Section 7.1.1.1) for approved and authorised personnel only. Site emergency response personnel will meet emergency services at these points in the instance where emergency services are called to respond to a bushfire emergency on operational areas.

Access to HVO biodiversity and rural buffer properties is from the nearest access gate to a main road and will be facilitated by a gate sentry.

7.1.1.3 | MANAGEMENT AND MITIGATION MEASURES

Large operational equipment are installed with fire suppression systems. Building infrastructure is protected with ring mains and pillar hydrants.

Fire detection systems are located installed as per *AS 1670.1-2004 Fire Detection, Warning, Control and Intercom Systems – System Design, Installation and Commissioning* and locations are identified via a risk based approach. Fire Services Block Plans are attached as **Appendix D**.

Personnel working across HVO are trained in basic emergency response procedures when they undertake the HVO site familiarisation induction.

Bushfire mitigation measures are undertaken within operational areas, outlined in **Table 1**. Actions for mitigation measures are documented within HVO's compliance management software program CMO.

Table 1 – *Operational Area Bushfire Mitigation Measures*

TASK	PURPOSE	FREQUENCY	RESPONSIBILITY
Inspect and maintain operational area fire trails and breaks	Improve access for fire control / response and management tasks	Annually, prior to fire season (August)	Maintenance Superintendent – Infrastructure and Projects
Inspect, install and maintain signage for main intersections and gates of firebreak trails	Aid emergency navigation	Annually, prior to fire season (August)	Maintenance Superintendent – Infrastructure and Projects
Inspect and maintain areas surrounding administration buildings, workshops, crib huts and external roads	Reduce fuel loads and mitigate bushfire risk potential	Quarterly	Maintenance Superintendent – Infrastructure and Projects
Inspect and maintain areas around power poles, switch yards, transformers, air break switches, and substations	Reduce fuel loads and mitigate bushfire risk potential	Quarterly	Supervisor Electrical Services / Maintenance
Inspect and maintain areas around powerlines	Reduce fuel loads and mitigate bushfire risk potential	Annually	Supervisor Electrical Services / Maintenance
Inspect and maintain areas around CHPP and load points	Reduce fuel loads and mitigate bushfire risk potential	Regular, as required	CHPP General Works Supervisor
Inspect and maintain HC1 conveyor	Reduce fuel loads and mitigate bushfire risk potential	Annually	CHPP General Works Supervisor
Inspect and maintain workshops	Reduce fuel loads and mitigate bushfire risk potential	Every four months	Maintenance Services Planner
Inspect and maintain water hydrant and pump function	Aid in fire response and control	Contractual – covered by Fire Service Providers	Maintenance Superintendent – Infrastructure and Projects

TASK	PURPOSE	FREQUENCY	RESPONSIBILITY
Report any instances of bushfire outbreak to supervisor / manager, or raise emergency alarm	Rapid response	As required	All personnel and contractors
Review Bushfire Management Plan including currency of information including maps, access routes	Rapid response by site emergency response team	Annually, within three months of submission of Annual Review	Environment and Community Department HVO Emergency Response Team
Bushfire reporting in the Annual Review	Approval requirement	Annually	Environment and Community Department
Annual liaison with Rural Fire Service	Review fuel loads and bushfire mitigation works. Advise RFS of operational changes	Annually, outside the bushfire season	Environment and Community Department HVO Emergency Response Team

7.1.2 | NON-OPERATIONAL AREAS

7.1.2.1 | MANAGEMENT AND MITIGATION MEASURES

A summary of bushfire mitigation measures undertaken on non-operational areas are outlined in **Table 2**.

Table 2 – *Non-Operational Area Bushfire Mitigation Measures*

TASK	PURPOSE	FREQUENCY	RESPONSIBILITY
Report any instances of bushfire outbreak to supervisor / manager, or raise emergency alarm	Rapid response	As required	All personnel and contractors
Inspect and maintain non-operational fire trails and fire breaks	Improve access for fire control / response and management tasks	Annually, prior to fire season (by August)	Environment and Community Department
Inspect, install and maintain signage for gates or firebreak trails	Aid emergency navigation	Annually, prior to fire season (by August)	Environment and Community Department

TASK	PURPOSE	FREQUENCY	RESPONSIBILITY
Review fuel loads and complete necessary reduction including areas adjacent to neighbouring properties	Assess need for hazard reduction activities	Annually, prior to fire season (by August)	Environment and Community Department

7.1.3 | BIODIVERSITY AREAS

Vegetation communities across HVO are subject to differing levels of biodiversity management and corresponding bushfire management measures.

The biodiversity offsets for both HVO (Wandewoi biodiversity area) and Mount Thorley Warkworth mine (Northern and Southern biodiversity areas) have their own specific management plans and are not discussed further in this Plan.

The riparian areas along the Hunter River, Wollombi Brook. Bayswater Creek, Farrells Creek and Parnells Creek are managed to avoid fire within these areas.

This Plan relates to the remaining areas of remnant vegetation occurring across HVO-managed lands that are not mentioned above.

7.1.4 | FIRE BREAKS AND FIRE TRAILS

Defined fire breaks and fire trails are included in the HVO Access, Infrastructure, Monitoring Location and Hazard Maps. Refer to Appendices A – C.

7.1.5 | HAZARD REDUCTION BURNING (PRESCRIBED BURNING)

All hazard reduction burns will be planned in accordance with the Bushfire Environmental Assessment Code and the guidelines contained in the Threatened Species Hazard Reduction Lists for the Bushfire Environmental Assessment Code. Hazard reduction burns will only be implemented following the development of a burn plan and prior consultation with the RFS.

Current recommendations under the Code are:

- in woodland vegetation, fire should not occur within seven years of a previous fire and consideration should be given to burning within 40 years of any previous fire; and
- in grassland vegetation derived from the woodland vegetation, the recommended fire intervals are the same as woodland vegetation.

7.1.5.1 | CULTURAL BURNING

Hazard reduction burning in the form of cultural burning undertaken by aboriginal organisation/s are a prescribed HVO land management strategy aimed at protecting aboriginal cultural heritage sites, specifically site CM CD1. Cultural burns at CM-CD1 will only be implemented following the development of a burn plan and prior consultation with the RFS.

Cultural burns will be conducted outside of the fire season by trained and qualified aboriginal organisations, in conjunction with HVO ERT, using traditional aboriginal as well as modern techniques.

7.1.6 | ACTIONS TO BE UNDERTAKEN ON DAYS OF INCREASED FIRE DANGER

Daily fire danger ratings form part of site-wide morning pre-start meetings. During days of increased fire danger, an additional slide/s will be added to site-wide morning pre-start meetings to warn of the additional risk/s on those days.

Hot work should be limited to essential work during a Total Fire Ban. The 'Hazardous Hot Work' section of the *GCAA Hot Work Permit* must be used when a total fire ban is in place.

7.2 | EMERGENCY RESPONSE

7.2.1 | FIRE DETECTION AND EMERGENCY RESPONSE

If a bushfire or grass fire is identified within the operational area, the HVO Emergency Management Principla Control Plan must be initiated:

1. Ensure the immediate safety of everyone.
2. Advise:
   - By radio – Press RED button on radio, then press PTT Key (Push to Talk) to speak; OR
   - By telephone – 2222 or (02) 65700222 for Dispatch
3. Say - EMERGENCY, EMERGENCY, EMERGENCY
4. Then state clearly:
   - Your name
   - Nature of the emergency
   - Location of emergency
   - What assistance is required
5. Dispatch will:
   - Notify the Emergency Response Team (ERT) on duty
   - Notify Mining OCE or area supervisor
   - Await further instructions from the ERT and OCE or area supervisor
   - Alert Emergency Services if the ERT, OCE or area supervisor determine that external support is required
6. If required, evacuate the area and assemble at your emergency muster point

The RFS will have a lead role in emergency response for HVO. However, due to the potential for the presence of explosive material, Fire and Rescue NSW may also be involved if a HAZMAT is declared. A HAZMAT event will be coordinated by Fire and Rescue NSW.

In the event a bush or grass fire is identified in tenanted buffer property. Tenants are too firstly contact public emergency services via '000' as a priority and then contact (02) 6570 0222 for HVO Dispatch.

In the event of a bushfire occurring across HVO, the operational priorities are for:

1. The safety of personnel
2. The effective protection of human life and community assets

3. The conservation of biodiversity and cultural heritage
4. The cost effectiveness of strategies.

7.2.2 | FIRE SUPPRESSION

In the event of a small fire, HVO personnel may attempt to suppress the fire with portable fire extinguishers and earth moving machinery if trained, competent and confident.

The ERT leader, or an authorised person is to:

- conduct initial size up and assessment of the fire, if safe to do so
- notify NSW Rural Fire Service
- assess the intensity of the fire, the type and amount of fuel, weather conditions and topography, if safe to do so
- attempt to extinguish fire and mobilise site resources as required, if safe to do so
- if fire is beyond control, move all personnel and equipment to safety, and await arrival of external emergency service crews
- monitor the progress of the fire from a safe distance and give the NSW Rural Fire Service situation reports
- if required, evacuate personnel to the relevant designated emergency muster points
- hand over to the NSW RFS where required.

7.2.3 | COMMUNICATION

In the event of an emergency, the Incident Management Team (IMT) may be initiated and establish a central control base in the Main Administration Building.

Once the emergency response has been initiated, duty cards will be distributed to members of the IMT. The duty cards outline roles and responsibilities of key personnel in the event of an emergency, whilst aligning with the Australasian Inter-Agency Incident Management Systems (AIIMS) methodology to aid in the transition of incident handover to external government agencies such as the NSW Rural Fire Service, should it be required (refer to HVO Emergency Management Manual).

All information requested by external parties, including the media and regulatory authorities is to be forwarded onto the Glencore Media and Communications Manager. The Media and Communications Manager will liaise with HVO General Manager over information that can be released to the public and other stakeholders. Key contacts are outlined in **Appendix G**.

8 | REPORTING

Any incidents or complaints relating to bushfire across HVO will be reported in CMO as well as the Annual Environmental Monitoring Review.

9 | REVIEW AND IMPROVEMENT

This plan is to be reviewed within three (3) months of the:

- Submission of a level 3 incident report
- Submission of an annual review

- Submission of an independent audit report requesting a review
- Approval of a modification to the HVO north development consent

This plan will be sent to Singleton Council and the Rural Fire Service for comment.

10 | DEFINITIONS

NAME / TITLE	DESCRIPTION
APZ (Asset Protection Zone)	A designated area surrounding as asset which is managed to permananetly reduce bushfire risk
Asset	Anything valued by the operation or community and includes houses, buildings, infrastructure, equipment, crops, livestock, cultural sites, heritage sites, general environment, businesses, and surrounding forests
Bushfire	A general term used to describe fire in vegetation, including grass fire
Bushfire Hazard	The potential severity of a bushfire, which is determined by fuel load, fuel arrangement and topography, under a given climatic condition
Bushfire Risk	The chance of a bushfire igniting, spreading and causing damage to the community or the assets they value
Cultural Burn	Considered a traditional Aboriginal land management practice that applies fire to maintain and enhance the health of the land and its ecosystems
ERT	Emergency Response Team
Fire Fighting Authorities	NSW Rural Fire Service, NSW Fire and Rescue, National Parks and Wildlife Service, Forests NSW
OCE (Open Cut Examiner)	Manager of day to day mining operations
Prescribed Burn	A controlled burn undertaken to meet a defined fuel management purpose with a prescription outlining intended frequency, fire behaviour and fuel reduction targets
Total Fire Ban	A complete ban on lighting, maintaining, or using any fire in the open air. Declared by the NSW RFS Commissioner

11 | DOCUMENT INFORMATION

11.1 | RELATED DOCUMENTS

Related documents, listed in Table below, are documents directly related to or referenced from within this document.

NUMBER	TITLE
GCAA-625378177-10041	Hot Work (Surface) Permit
GCAA-1925882959-577	GCAA Land and Property Management Protocol
HVOOC-1797567310-2446	HVO Emergency Management Manual
HVOOC-1797567310-2478	HVO Emergency Management Principla Control Plan
HVOOC-1797567310-3718	HVO Integrated Biodiversity Management Plan
HVOOC-1797567310-3087	HVO South Aboriginal Cultural Heritage Management Plan
HVOOC-1797567310-3088	HVO North Heritage Management Plan
HVOOC-1797567310-5256	HVO Historic Heritage Management Plan
HVOOC-1797567310-2446	HVO Emergency Management Manual

11.2 | REFERENCE INFORMATION

Reference information, listed in Table below, is information that is directly referred to for the development of this document.

REFERENCE
s63 of the *Rural Fires Act 1997*
HVO North DA 450-10-2003 (Mod 8)
Australian Standard (AS) 1670.1-2004 *Fire Detection, Warning, Control and Intercom Systems – System Design, Installation and Commissioning*

REFERENCE
Australian Standard (AS) 5062, *Fire Protection for Mobile and Transportable Equipment requirements*
NSW RFS Fact Sheet for Emergency Plans, 2020
Bushfire Risk Management Plan – Hunter Valley, Hunter Valley Bushfire Management Committee, 2023
Bushfire Environmental Assessment Code, NSW RFS, 2021
Planning for Busfire Protection, A guide for councils, planners, fire authorities and developers, NSW Rural Fire Service, 2019

11.3 | CHANGE INFORMATION

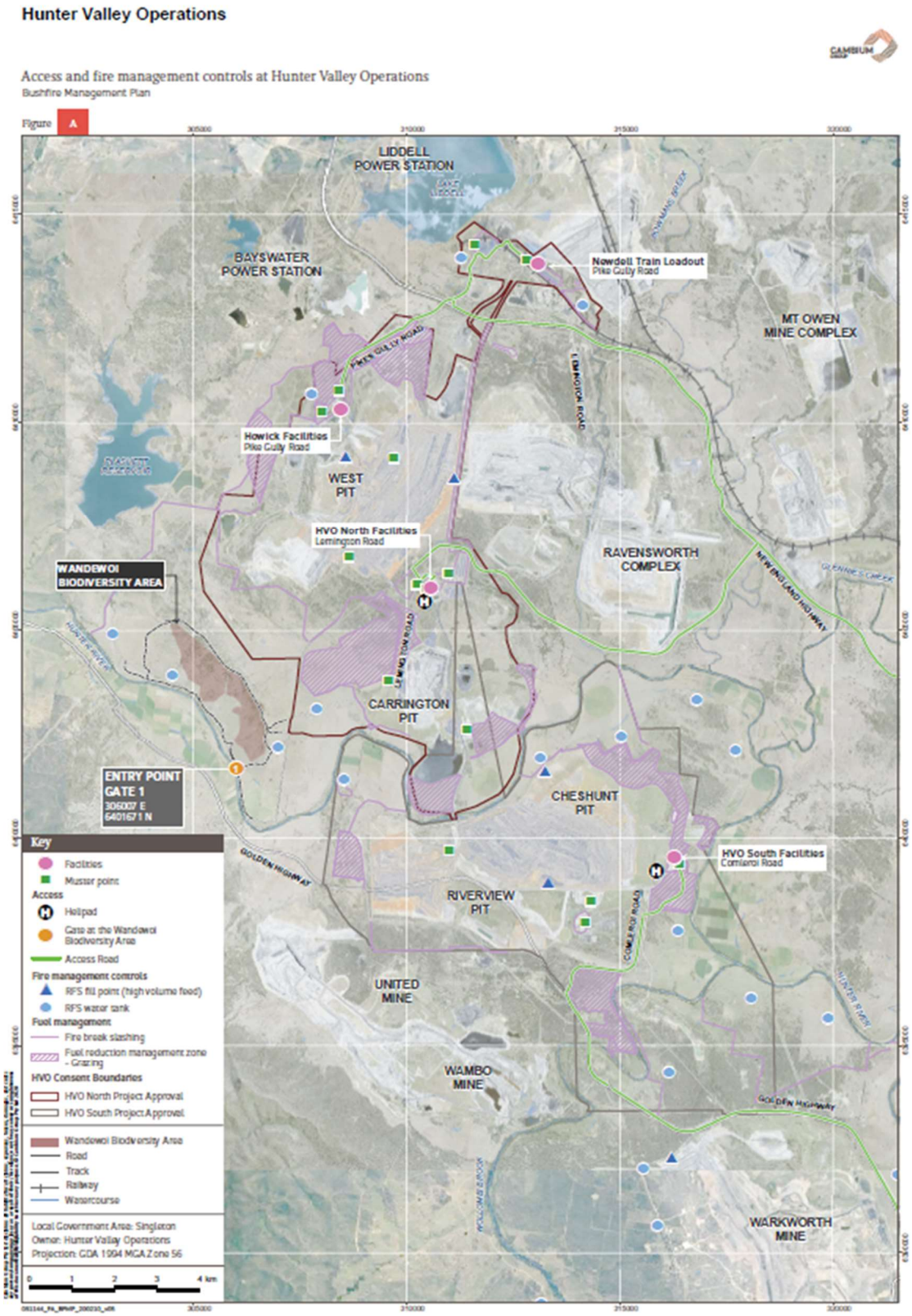
Full details of the document history are recorded in the document control register, by version. A summary of the current change is provided in table below. Example detail shown below.

VERSION	DATE	REVIEW TEAM	CHANGE DETAILS
4.0	1/04/20	Paul Scrace (HVO) and Peter Bowman (HVO)	Update HVO template, remove references to MTW, and update currency of information, in line with the NSW RFS Fact Sheet for Bushfire Management Plans.
5.0	26/10/22	Brett Stewart (HVO) and Peter Bowman (HVO)	Remove ESO secondary contact number. Update tenant contact details. Update Bushfire Environmental Assessment Code for New South Wales version date and recommended time interval for fire events in woodland vegetation.
6.0	9/12/25	Nic McLaughlin (HVO) Anna Burnheim (Singleton Council) Tim Cassar (NSW RFS) Andrew Porters (HVO ERT)	Replace reference to ESO with ERT throughout document Update Section 7.1.3 Biodiversity Areas Update Section 11.1 Related Documents Change heading 11.4 from Consultation to External Consultation Update Appendix G

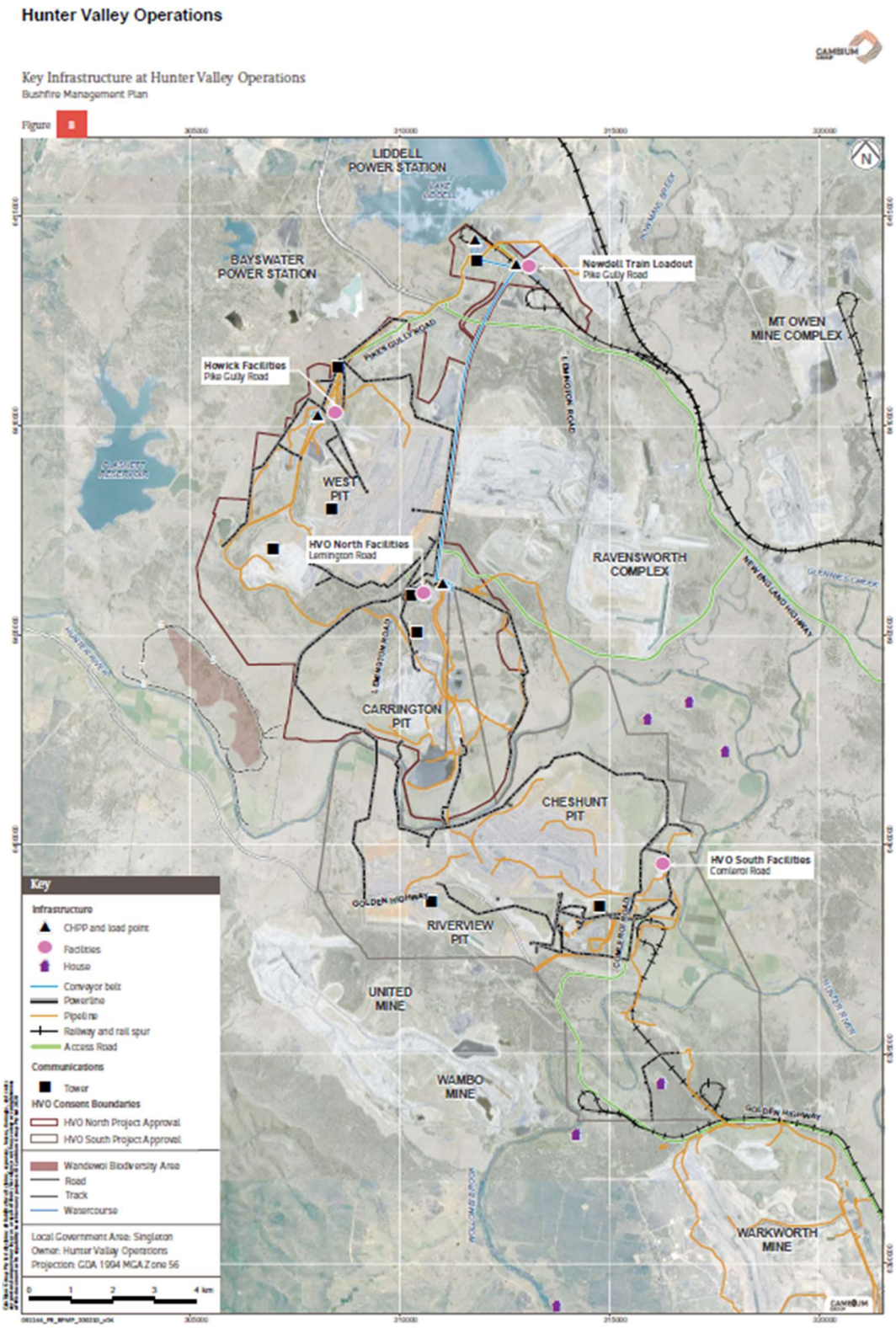
11.4 | EXTERNAL CONSULTATION

VERSION	DATE	STAKEHOLDER	CONSULTATION DETAILS
4.0	2020	NSW Rural Fire Service – Hunter Valley Singleton Council	RFS approval email dated 10/1/2020 SC review and approval email dated 15/1/2020
5.0	26/10/22	NSW Rural Fire Service – Hunter Valley Singleton Council	RFS approval email dated 31/10/2022 SC endorsement email dated 9/2/2023
6.0	9/12/2025	NSW Rural Fire Service – Hunter Valley	No feedback provided. Approval email dated 9/12/2025
	2/09/2025	Singleton Council	No feedback provided. Approval email dated 2/09/2025. Added to Singleton Council LEMC Sharepoint for easy access for their agencies

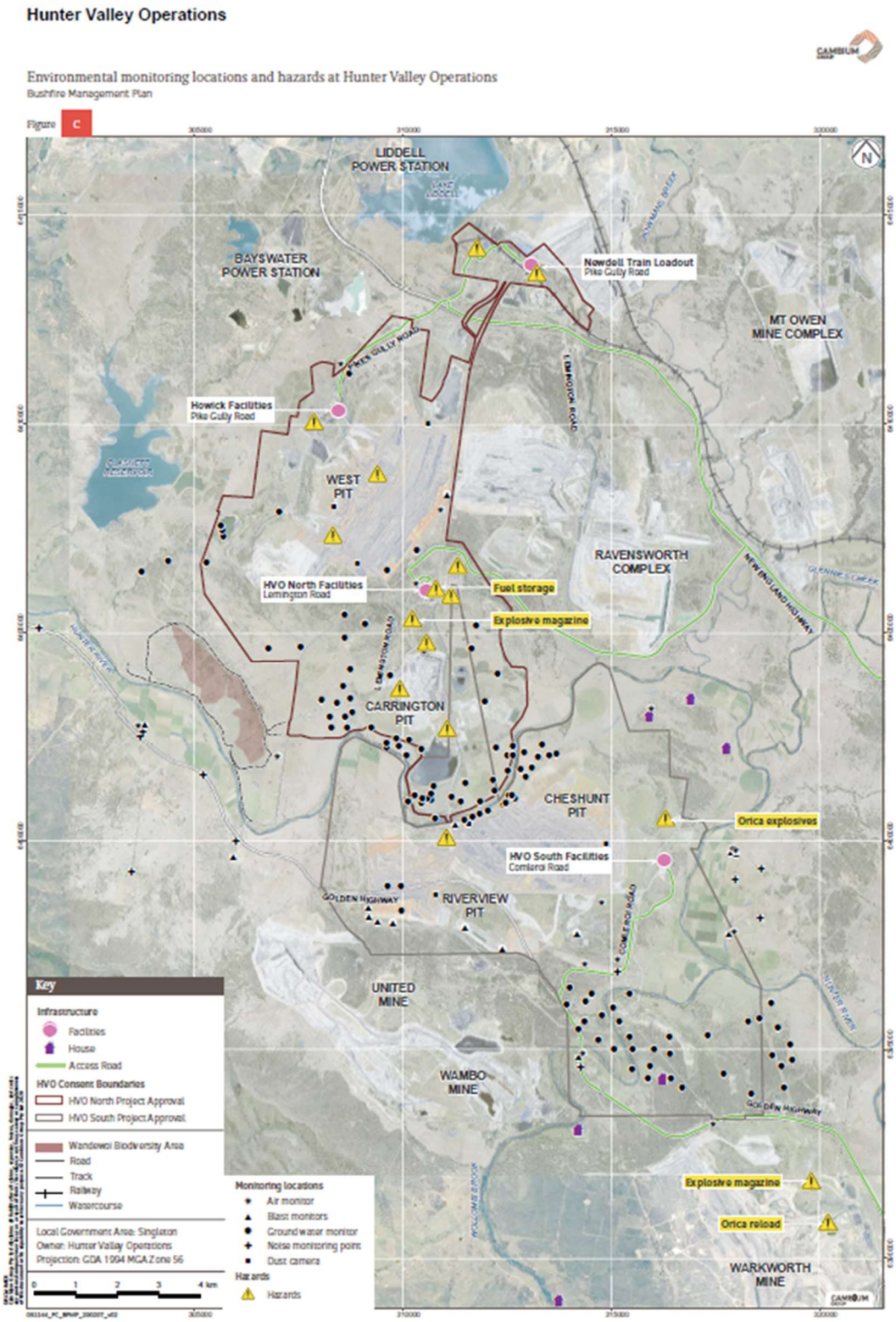
APPENDIX A: MINE ACCESS POINTS



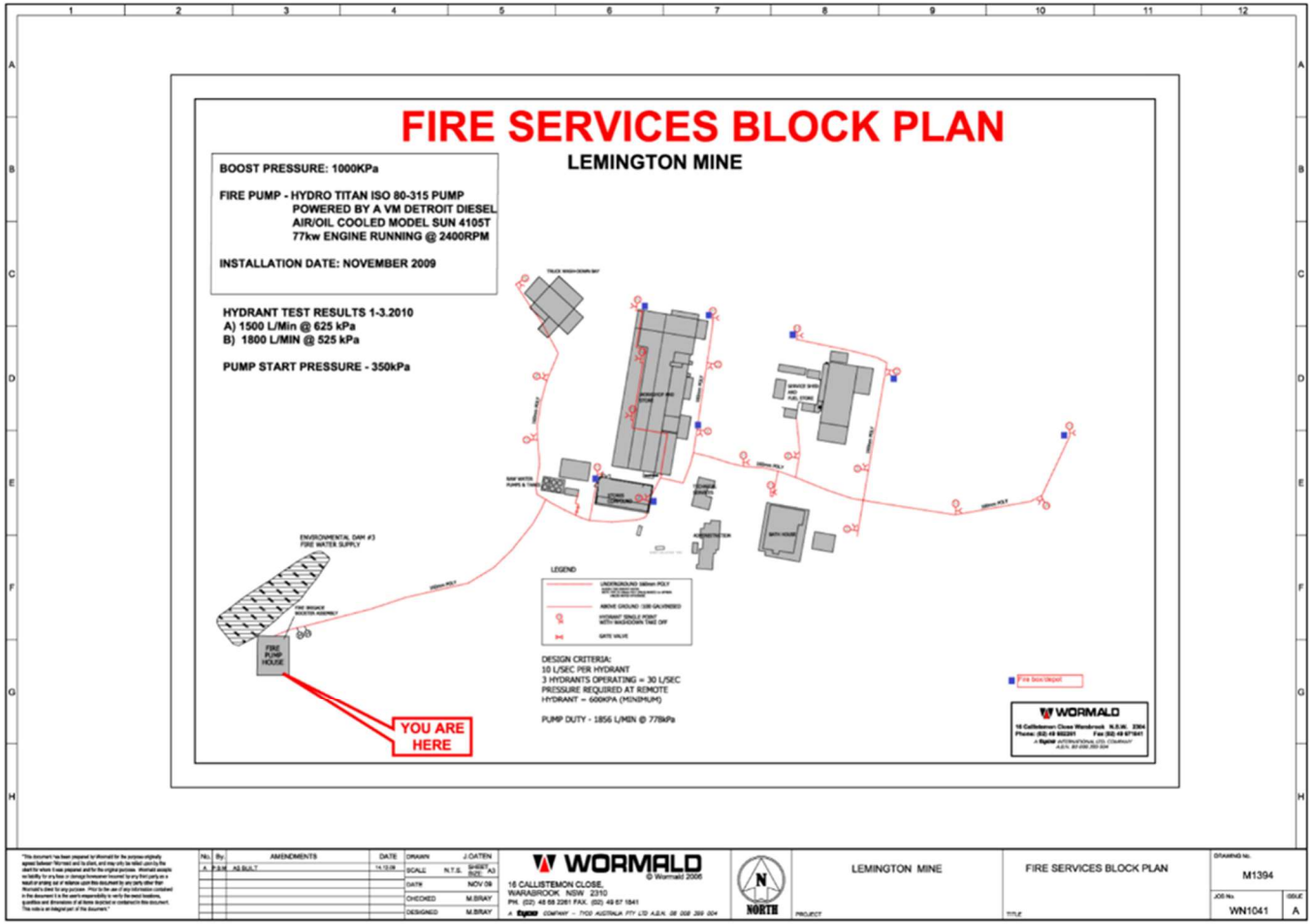
APPENDIX B: KEY INFRASTRUCTURE

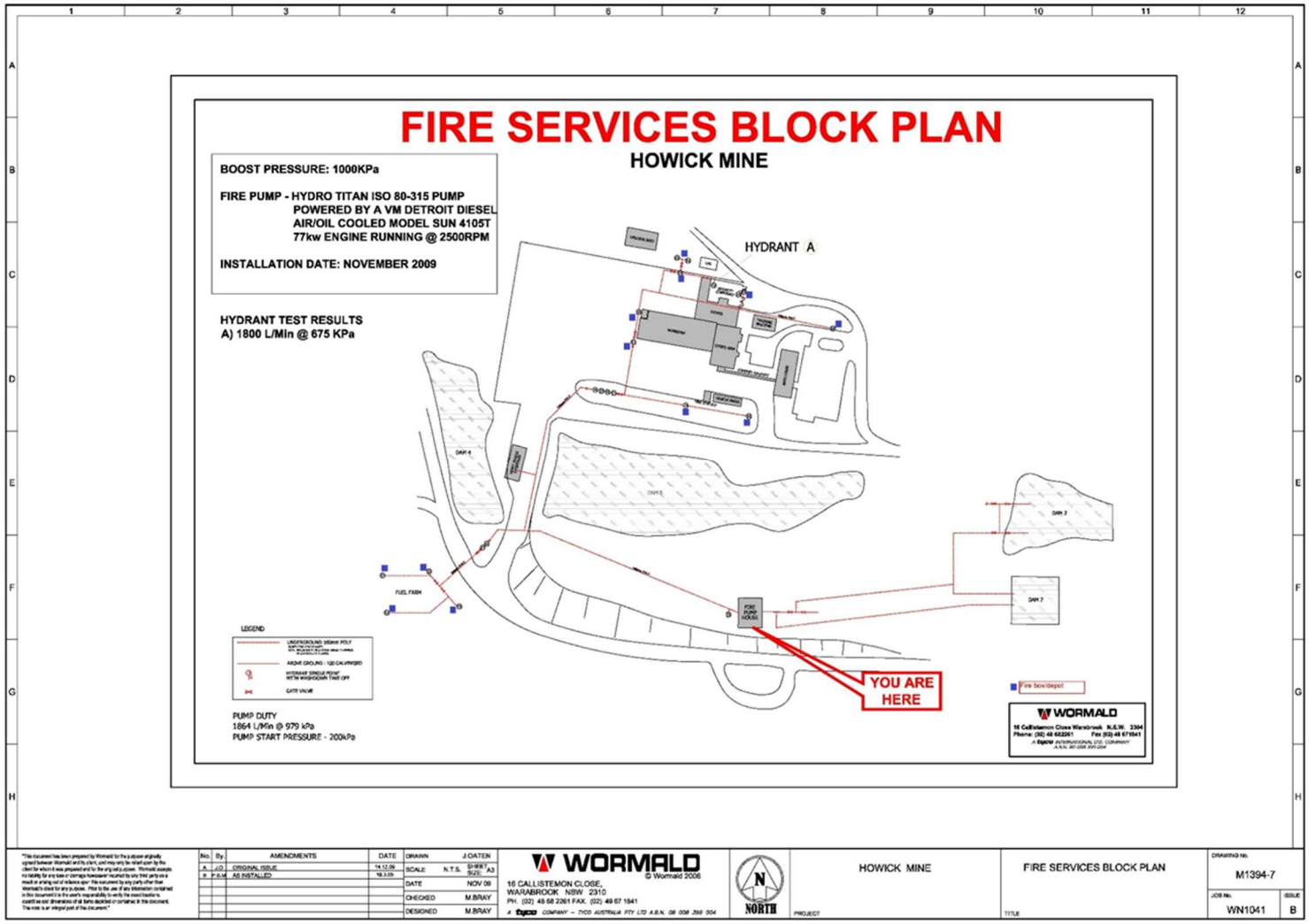


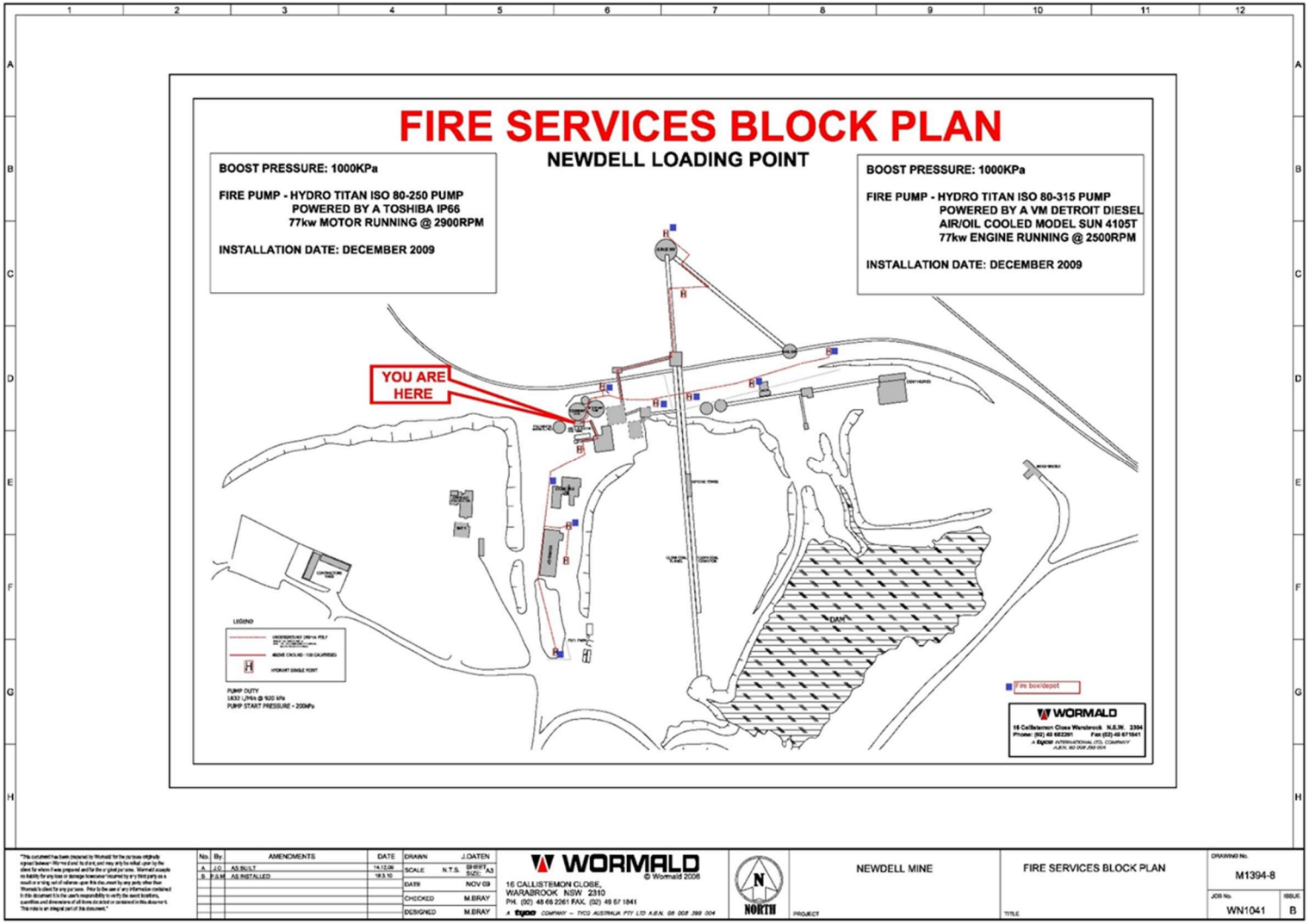
APPENDIX C: ENVIRONMENTAL MONITORING LOCATIONS AND HAZARDS

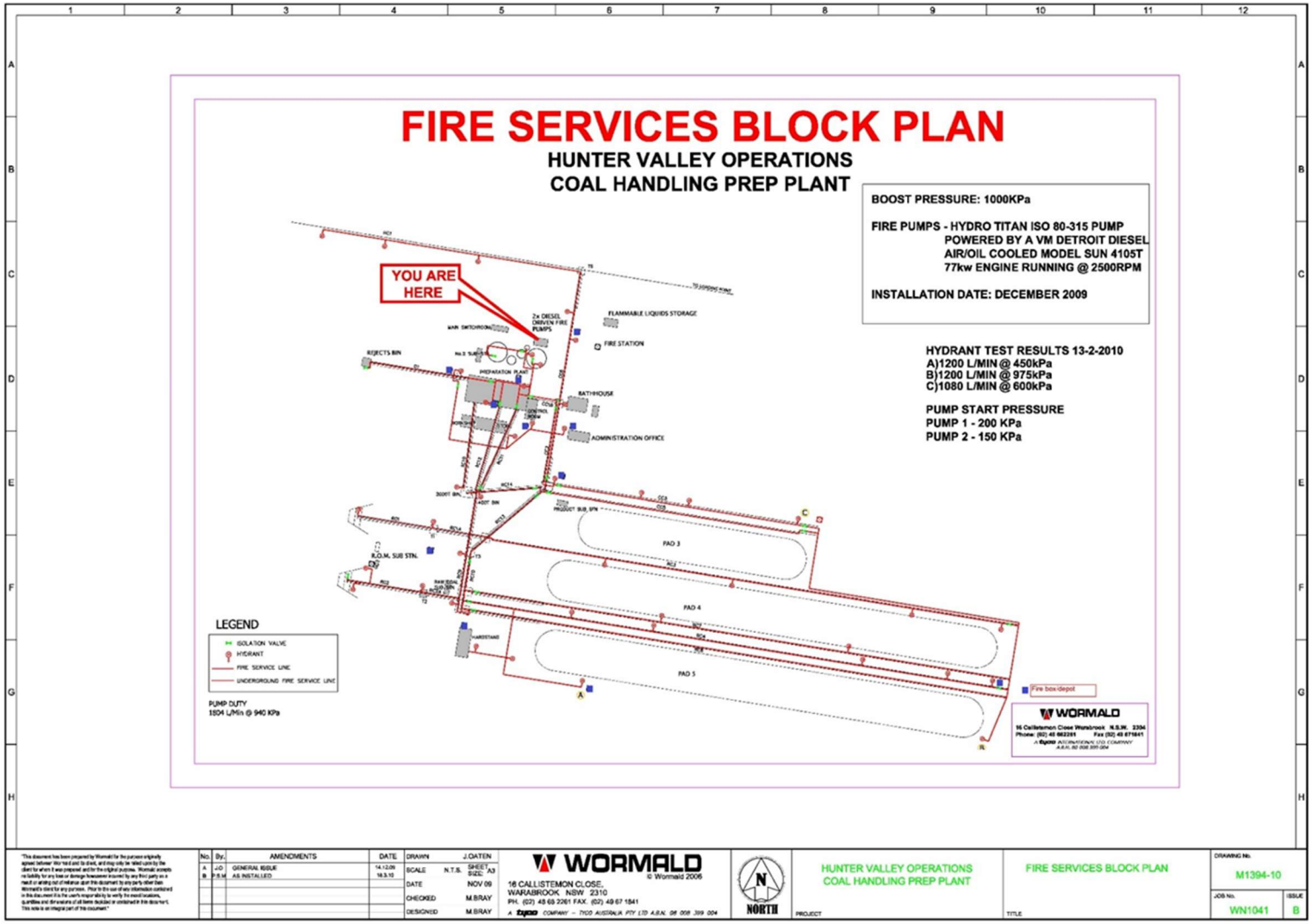


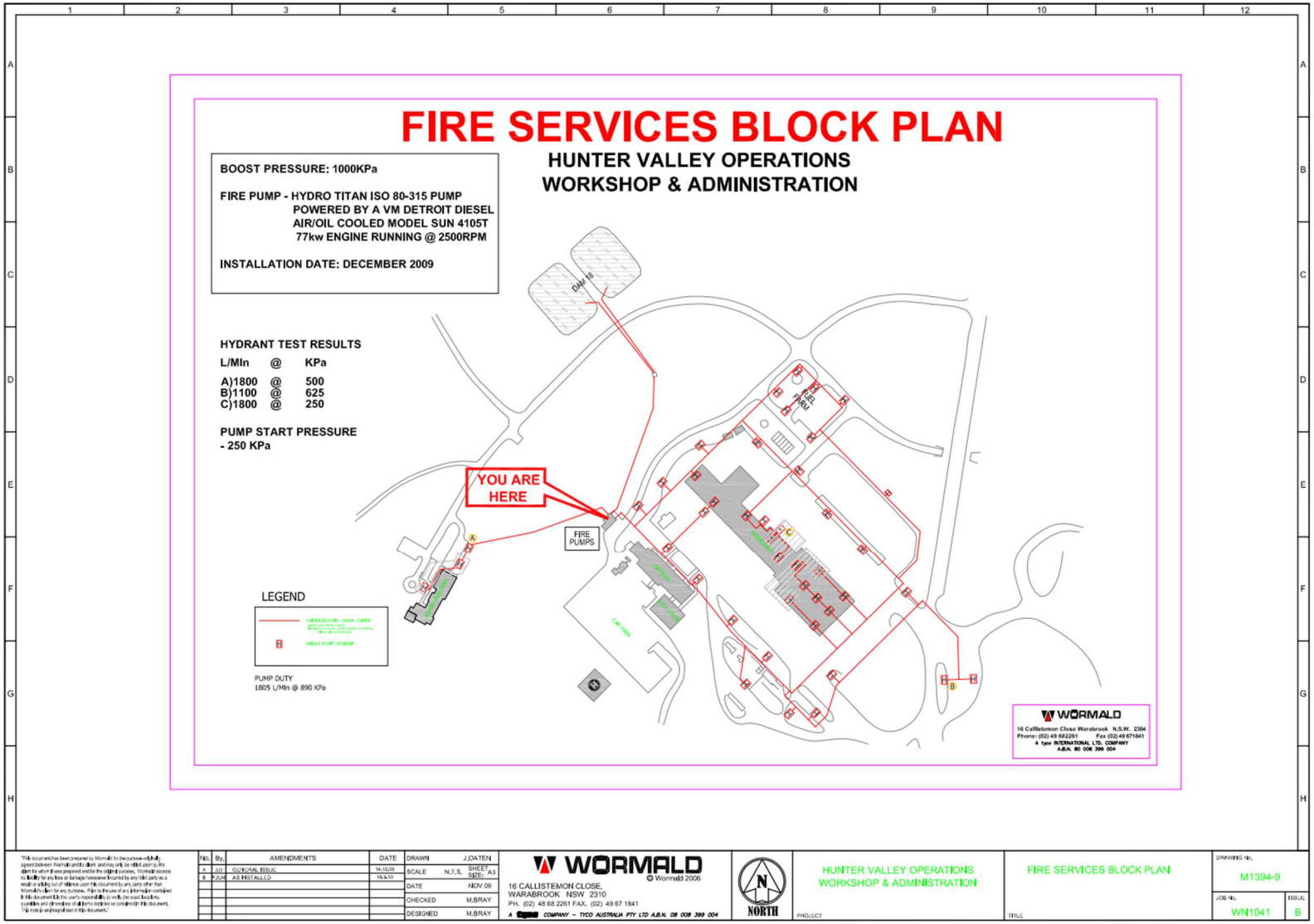
APPENDIX D: FIRE SERVICES BLOCK PLANS




FIRE SERVICES BLOCK PLAN
HOWICK MINE
BOOST PRESSURE: 1000KPa
FIRE PUMP - HYDRO TITAN ISO 80-315 PUMP
POWERED BY A VM DETROIT DIESEL
AIR/OIL COOLED MODEL SUN 4105T
77kw ENGINE RUNNING @ 2500RPM
INSTALLATION DATE: NOVEMBER 2009
HYDRANT TEST RESULTS
A) 1800 L/Min @ 675 KPa
HYDRANT A
YOU ARE HERE
LEGEND
PUMP DUTY
1864 L/Min @ 979 kPa
PUMP START PRESSURE - 200kPa
WORMALD
16 CALLISTEMON CLOSE,
WARABROOK NSW 2310
HOWICK MINE
FIRE SERVICES BLOCK PLAN
M1394-7
WN1041
B


FIRE SERVICES BLOCK PLAN
NEWDELL LOADING POINT
BOOST PRESSURE: 1000KPa
FIRE PUMP - HYDRO TITAN ISO 80-250 PUMP
POWERED BY A TOSHIBA IP66
77kw MOTOR RUNNING @ 2900RPM
INSTALLATION DATE: DECEMBER 2009
BOOST PRESSURE: 1000KPa
FIRE PUMP - HYDRO TITAN ISO 80-315 PUMP
POWERED BY A VM DETROIT DIESEL
AIR/OIL COOLED MODEL SUN 4105T
77kw ENGINE RUNNING @ 2500RPM
INSTALLATION DATE: DECEMBER 2009
YOU ARE HERE
DAM
LEGEND
PUMP DUTY
1832 L/Min @ 920 kPa
PUMP START PRESSURE - 200kPa
Fire box/depot
WORMALD
16 Callistemon Close Warabrook N.S.W. 2304
Phone: (02) 49 582261 Fax: (02) 49 571841
A tyco INTERNATIONAL (T.C.) COMPANY
A.B.N. 80 008 399 004
AMENDMENTS
DATE
DRAWN
SCALE
DATE
CHECKED
DESIGNED
WORMALD
© Wormald 2006
16 CALLISTEMON CLOSE,
WARABROOK NSW 2310
PH. (02) 49 66 2261 FAX. (02) 49 57 1841
A tyco COMPANY – TYCO AUSTRALIA PTY LTD A.B.N. 68 008 399 004
NORTH
NEWDELL MINE
PROJECT
FIRE SERVICES BLOCK PLAN
TITLE
DRAWING No.
M1394-8
JOB No.
WN1041
ISSUE
B


FIRE SERVICES BLOCK PLAN
HUNTER VALLEY OPERATIONS
COAL HANDLING PREP PLANT
BOOST PRESSURE: 1000KPa
FIRE PUMPS - HYDRO TITAN ISO 80-315 PUMP
POWERED BY A VM DETROIT DIESEL
AIR/OIL COOLED MODEL SUN 4105T
77kw ENGINE RUNNING @ 2500RPM
INSTALLATION DATE: DECEMBER 2009
HYDRANT TEST RESULTS 13-2-2010
A)1200 L/MIN @ 450kPa
B)1200 L/MIN @ 975kPa
C)1080 L/MIN @ 600kPa
PUMP START PRESSURE
PUMP 1 - 200 KPa
PUMP 2 - 150 KPa
YOU ARE HERE
2x DIESEL DRIVEN FIRE PUMPS
FLAMMABLE LIQUIDS STORAGE
FIRE STATION
REJECTS BIN
PREPARATION PLANT
BATHHOUSE
ADMINISTRATION OFFICE
PAD 3
PAD 4
PAD 5
R.O.M. SUB STN.
LEGEND
ISOLATION VALVE
HYDRANT
FIRE SERVICE LINE
UNDERGROUND FIRE SERVICE LINE
PUMP DUTY
1504 L/Min @ 940 KPa
Fire box/depot
WORMALD
16 CALLISTEMON CLOSE,
WARABROOK NSW 2310
PH. (02) 49 69 2261 FAX. (02) 49 67 1841
NORTH
HUNTER VALLEY OPERATIONS
COAL HANDLING PREP PLANT
FIRE SERVICES BLOCK PLAN
M1394-10
WN1041
B


FIRE SERVICES BLOCK PLAN
HUNTER VALLEY OPERATIONS
WORKSHOP & ADMINISTRATION
BOOST PRESSURE: 1000KPa
FIRE PUMP - HYDRO TITAN ISO 80-315 PUMP
POWERED BY A VM DETROIT DIESEL
AIR/OIL COOLED MODEL SUN 4105T
77kw ENGINE RUNNING @ 2500RPM
INSTALLATION DATE: DECEMBER 2009
HYDRANT TEST RESULTS
L/Min @ KPa
A)1800 @ 500
B)1100 @ 625
C)1800 @ 250
PUMP START PRESSURE
- 250 KPa
YOU ARE HERE
FIRE PUMPS
LEGEND
PUMP DUTY
1805 L/Min @ 890 KPa
WORMALD
16 Callistemon Close Warabrook N.S.W. 2304
Phone: (02) 49 682261 Fax (02) 49 671841
A tyco INTERNATIONAL LTD. COMPANY
A.B.N. 80 008 399 004
WORMALD
© Wormald 2006
16 CALLISTEMON CLOSE,
WARABROOK NSW 2310
PH. (02) 48 68 2261 FAX. (02) 49 67 1841
A COMPANY – TYCO AUSTRALIA PTY LTD A.B.N. 08 008 399 004
NORTH
HUNTER VALLEY OPERATIONS
WORKSHOP & ADMINISTRATION
FIRE SERVICES BLOCK PLAN
M1394-9
WN1041
B

APPENDIX E: CONSULTATION SINGLETON COUNCIL

RE: HVO - Bushfire Management Plan

AB

Anna Burnheim <aburnheim@singleton.nsw.gov.au> Tue 2/09/2025 9:38 AM

To McLaughlin, Nic (Hunter Valley Operations - AU)

Cc Kellie Doherty

If there are problems with how this message is displayed, click here to view it in a web browser.

This message is from an external sender

This message came from outside your organization.

Hi Nic

Apologies for the delay.

Thank you for sending through. Council has reviewed and has no feedback to provide.

We will add this to the LEMC sharepoint for easy access for our agencies.

Thanks again for engaging with us and the BFMC.

Ta - Anna

SINGLETON COUNCIL

ANNA BURNHEIM

Manager Infrastructure Services

T 02 6578 7300 M 0422 444 858

E aburnheim@singleton.nsw.gov.au

W singleton.nsw.gov.au

Singleton Council acknowledges the Wanaruah, Wonnarua people and their custodianship of the land in the Singleton Local Government Area. We also acknowledge all other Aboriginal and Torres Strait Islanders who live within the Singleton Local Government Area and pay our respect to Elders past, present and future.

APPENDIX F: RFS

RE: HVO - Draft Bushfire Management Plan

Reply | Reply All | Forward | •••

TC

Timothy Cassar <Timothy.Cassar@rfs.nsw.gov.au>
To McLaughlin, Nic (Hunter Valley Operations - AU)

Tue 9/12/2025 5:13 PM

If there are problems with how this message is displayed, click here to view it in a web browser.

This message is from an external sender
This message came from outside your organization.

Hi Nic,

Apologies for the delay in getting back to you. There has been several competing priorities, staff leave and a recent increase in operational tempo, which has drawn our focus from this, however Michael and I have reviewed the plan and see no obvious issues that raise a concern from our perspective.

Thank you for the opportunity to provide input, apologies again for the delay in providing this feedback to you. Please don't hesitate to reach out to discuss further or if you have any specific bushfire management concerns or bushfire hazard reduction questions.

Kind Regards Tim

APPENDIX G: KEY CONTACTS (INTERNAL USE ONLY)