

MIDDLEMOUNT COAL MINE WESTERN EXTENSION PROJECT (EPBC 2017/8130) EPBC Act Preliminary Assessment Documentation

Attachment H

Middlemount Coal Mine Environmental Authority
EPML00716913 (21 May 2018)
- Water Conditions



Water

C1 Contaminant release

Contaminants that will, or have the potential to cause environmental harm must not be released directly or indirectly to any waters as a result of the authorised mining activities, except as permitted under the conditions of this environmental authority

C2 The release of mine affected water to waters must only occur from the release points specified in Table C1: Mine Affected Water Release Points, Sources and Receiving Waters and depicted in Attachment B, attached to this environmental authority.

Table C1: Mine Affected Water Release Points, Sources and Receiving Waters

Release point (RP)	Easting (GDA94)	Northing (GDA94)	Mine affected water source and location	Monitoring point	Receiving waters description
RP 1	667,725	7,469,370	Raw Water Dam	Spillway/pipe	Roper Creek
RP 2	671,743	7,469,842	Mine Water Dam	Spillway/pipe	Roper Creek
SD 1	668,008	7,469,218	Sediment Dam 1	Spillway/pipe	Roper Creek
SD 2	668,093	7,470,858	Sediment Dam 2	Spillway/pipe	Roper Creek
SD 3	668,457	7,470,213	Sediment Dam 3	Spillway/pipe	Roper Creek
SD 7	671,125	7,474,067	Sediment Dam 7	Spillway/pipe	Roper Creek
NROM	667,858	7,470,294	North ROM Dam	Spillway/pipe	Roper Creek

C3 The release of mine affected water to internal water management infrastructure that is installed and operated in accordance with a water management plan that complies with Conditions C26 to C27 inclusive is permitted.

C4 The release of mine affected water to waters in accordance with Condition C2 must not exceed the release limits stated in Table C2: Mine Affected Water Release Limits when measured at the monitoring points specified in Table C1: Mine Affected Water Release Points, Source and Receiving Waters for each quality characteristic.

Table C2: Mine Affected Water Release Limits

Quality Characteristic	Release Limits	Monitoring Frequency	Comments
Electrical Conductivity (µS/cm)	Release limits specified in Table C4 for variable flow criteria	Daily during release (the first sample must be taken within 2 hours of commencement of release)	

pH (pH units)	6.5 (minimum) 9.0 (maximum)	Daily during release (the first sample must be taken within 2 hours of commencement of release)	
Turbidity (NTU)	No limit	Daily during release** (first sample within 2 hours of commencement of release)	Turbidity is required to assess ecosystems impacts and can provide instantaneous results.
Suspended Solids (mg/L) (80 th percentile ¹ of reference ²)	Flow <2m ³ /s 562 mg/L	Daily during release** (first sample within 2 hours of commencement of release)	Suspended solids are required to measure the performance of sediment and erosion control measures.
	Flow >2m ³ /s 1062 mg/L		
Sulphate (SO ₄ ²⁻) (mg/L)	Release limits specified in Table C4 for variable flow criteria	Daily during release* (first sample within 2 hours of commencement of release)	Drinking water environmental values from NHMRC 2006 guidelines or ANZECC

- C5 The release of mine affected water to waters from the release points must be monitored at the locations specified in Table C1: Mine Affected Water Release Points, Sources and Receiving Waters for each quality characteristic and at the frequency specified in Table C2: Mine Affected Water Release Limits and Table C3: Release Contaminant Trigger Investigation Levels Potential Contaminants.

Table C3: Release Contaminant Trigger Investigation Levels Potential Contaminants

Quality characteristic	Trigger levels (µg/L)	Comment on trigger level	Monitoring frequency
Aluminium	55	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Arsenic	13	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Cadmium	0.2	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Chromium	1	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Copper	2	For aquatic ecosystem protection, based on LOR for ICPMS	Commencement of release and thereafter weekly during release
Iron	300	For aquatic ecosystem protection, based on low reliability guideline.	Commencement of release and thereafter weekly during release
Lead	4	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Mercury	0.2	For aquatic ecosystem protection, based on LOR for CV FIMS	Commencement of release and thereafter weekly during release
Nickel	11	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Zinc	8	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly

			during release
Boron	370	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Cobalt	90	For aquatic ecosystem protection, based on low reliability guideline	Commencement of release and thereafter weekly during release
Manganese	1,900	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Molybdenum	34	For aquatic ecosystem protection, based on low reliability guideline	Commencement of release and thereafter weekly during release
Selenium	10	For aquatic ecosystem protection, based on LOR for ICPMS	Commencement of release and thereafter weekly during release
Silver	1	For aquatic ecosystem protection, based on LOR for ICPMS	Commencement of release and thereafter weekly during release
Uranium	1	For aquatic ecosystem protection, based on LOR for ICPMS	Commencement of release and thereafter weekly during release
Vanadium	10	For aquatic ecosystem protection, based on LOR for ICPMS	Commencement of release and thereafter weekly during release
Ammonia	900	For aquatic ecosystem protection, based on SMD guideline	Commencement of release and thereafter weekly during release
Nitrate	1,100	For aquatic ecosystem protection, based on ambient Qld WQ Guidelines (2006) for TN	Commencement of release and thereafter weekly during release
Petroleum hydrocarbons (C6-C9)	20		Commencement of release and thereafter weekly during release
Petroleum hydrocarbons (C10-C36)	100		Commencement of release and thereafter weekly during release
Fluoride (total)	2,000	Protection of livestock and short term irrigation guideline	Commencement of release and thereafter weekly during release
Sodium	To be provided to the administering authority via an amendment to the environmental authority by 31 August 2020		Commencement of release and thereafter weekly during release

Note:

1. All metals and metalloids must be measured as total (unfiltered) and dissolved (filtered). Trigger levels for metals/metalloids apply if dissolved results exceed trigger.
2. The quality characteristics required to be monitored as per Table C3 can be reviewed once the results of two years monitoring data is available, or if sufficient data is available to adequately demonstrate negligible environmental risk, and it may be determined that a reduced monitoring frequency is appropriate or that certain quality characteristics can be removed from Table C3, by amendment.
3. SMD – slightly moderately disturbed level of protection, guideline refers ANZECC & ARMCANZ (2000).
4. LOR – typical reporting for method stated. ICPMS/CV FIMS – analytical methods required to achieve LOR.

- C6 If quality characteristics of the release exceed any of the trigger levels specified in Table C3: Release Contaminant Trigger Investigation Levels Potential Contaminants during a release event, the environmental authority holder must compare the downstream results in the receiving waters to the trigger values specified in Table C3: Release Contaminant Trigger Investigation Levels Potential Contaminants and:
1. where the trigger values are not exceeded then no action is to be taken; or
 2. where the downstream results exceed the trigger values specified in Table C3: Release Contaminant Trigger Investigation Levels Potential Contaminants for any quality characteristic, compare the results of the downstream site to the data from background monitoring sites and;
 - a) if the result is less than the background monitoring site data, then no action is to be taken; or
 - b) if the result is greater than the background monitoring site data, complete an investigation into the potential for environmental harm and provide a written report to the administering authority within 90 days of receiving the result, outlining:
 - (i) details of the investigations carried out; and
 - (ii) actions taken to prevent environmental harm.
- Note: Where an exceedance of a trigger level has occurred and is being investigated, in accordance with C6 2(b) of this condition, no further reporting is required for subsequent trigger events for that quality characteristic.
- C7 If an exceedance in accordance with Condition C6 2(b) is identified, the holder of the environmental authority must notify the administering authority in writing within 24 hours of receiving the result.
- C8 Mine affected release events
The holder must ensure an automatic stream flow gauging station/s is installed, operated and maintained to determine and record stream flows at the locations and flow recording frequency specified in Table C4: Mine Affected Water Release During Flow Events.
- C9 The release of mine affected water to waters in accordance with Condition C2 must only take place during periods of natural flow events in accordance with the receiving water flow criteria for discharge specified in Table C4: Mine Affected Water Release During Flow Events for the release point(s) specified in Table C1: Mine Affected Water Release Points, Sources and Receiving Waters.
- C10 The release of mine affected water to waters in accordance with Condition C2 must not exceed the Electrical Conductivity and Sulphate release limits or the Maximum Release Rate (for all combined release point flows) for each receiving water flow criteria for discharge specified in Table C4: Mine Affected Water Release During Flow Events when measured at the monitoring points specified in Table C1: Mine Affected Water Release Points, Sources and Receiving Waters.
- C11 The daily quantity of mine affected water released from each release point must be measured, recorded and provided to the administering authority on request.
- C12 Releases to waters must be undertaken so as not to cause erosion of the bed and banks of the receiving waters, or cause a material build-up of sediment in such waters.

- C13 The environmental authority holder must notify the administering authority via WaTERS within 24 hours after commencing to release mine affected water to the receiving environment. Notification must include the submission of written advice to the administering authority of the following information:
- Release commencement date and time
 - Details regarding the compliance of the release with the conditions of Department interest: Water of this environmental authority (that is, contaminant limits, natural flow, discharge volume)
 - Release point/s
 - Release rate
 - Release salinity
 - Receiving water/s including the natural flow rate

Table C4: Mine Affected Water Release During Flow Events

Receiving waters /stream	Release point (RP)	Gauging station	Gauging station Easting, (GDA94)	Gauging station Northing, (GDA94)	Receiving water flow recording frequency	Receiving water flow criteria for discharge	Maximum release rate (for all combined RP flows)	Electrical conductivity and sulphate release limits
Roper Creek	RP1 RP2 SD1 SD2 SD3 SD7 NROM	Ref 1	667,484	7,471,112	Continuous (minimum daily)	<u>Low Flow</u> For a period of 28 days after natural flow events that exceed 2m ³ /s	0.4 m ³ /s	Electrical conductivity (µS/cm) 700. Sulphate (SO ₄ ²⁻): 250 mg/L
						<u>Medium flow</u> > 2 m ³ /s	1.12 m ³ /s	Electrical conductivity (µS/cm) 1500. Sulphate (SO ₄ ²⁻): 250 mg/L
						<u>High flow</u> > 10 m ³ /s	5.6 m ³ /s	Electrical conductivity (µS/cm) 1500. Sulphate (SO ₄ ²⁻): 250 mg/L
						>10 m ³ /s	>1.6 m ³ /s	Electrical conductivity (µS/cm) 3500. Sulphate (SO ₄ ²⁻): 300 mg/L
						<u>Very High Flow</u> >25 m ³ /s	2.1 m ³ /s	Electrical conductivity (µS/cm) <6000. Sulphate (SO ₄ ²⁻): 500 mg/L

- C14 The environmental authority holder must notify the administering authority via WaTERS within 24 hours after cessation of a release event) of the cessation of a release notified under condition C13 and within 28 days provide the following information in writing:
- Release cessation date and time
 - Natural flow rate in receiving water
 - Volume of water released from each release point
 - Details regarding the compliance of the release with the conditions of Department interest; water of this environmental authority (i.e. contaminant limits, natural flow, discharge volume)
- C15 Notification of release event exceedance
If the release limits defined in Table C2: Mine Affected Water Release Limits are exceeded, the holder of the environmental authority must notify the administering authority via WaTERS within twenty-four (24) hours of receiving the results.
- C16 The environmental authority holder must, within 28 days of a release that is not compliant with the conditions of this environmental authority, provide a report to the administering authority via WaTERS detailing:
- The reason for the release
 - The location of the release
 - The total volume of the release and which (if any) part of this volume was non-compliant
 - The total duration of the release and which (if any) part of this period was non-compliant
 - All in situ and any water quality monitoring results (including all laboratory analyses)
 - Identification of any environmental harm as a result of the non-compliance
 - Any other matters pertinent to the water release event.
- C17 Receiving environment monitoring and contaminant trigger levels
The quality of the receiving waters must be monitored at the locations specified in Table C6: Receiving Water Upstream Background Sites and Downstream Monitoring Points for each quality characteristic and at the monitoring frequency stated in Table C5: Receiving Waters Contaminant Trigger Levels.
- C18 If quality characteristics of the receiving water at the downstream monitoring points exceed any of the trigger levels specified in Table C5: Receiving Waters Contaminant Trigger Levels during a release event, the environmental authority holder must compare the downstream results to the upstream results in the receiving waters and:
- where the downstream result is the same or a lower value than the upstream value for the quality characteristic, then no action is to be taken; or
 - where the downstream results exceed the upstream results, complete an investigation into the potential for environmental harm and provide a written report to the administering authority at CRWaters@ehp.qld.gov.au within 3 months, outlining:
 - details of the investigations carried out; and
 - actions taken to prevent environmental harm.

Table C5: Receiving Waters Contaminant Trigger Levels

Quality characteristic	Trigger level	Monitoring frequency
pH	6.5 – 8.5	Daily during the release
Electrical Conductivity (µS/cm)	700	
Suspended Solids (mg/L) (80th percentile* of reference**)	562	
	Flow <2m ³ /s 1062	

	Flow >2m ³ /s	
Sulphate (SO ₄ ²⁻) (mg/L)	250	
Sodium (mg/L)	180	

Note:

* 80th percentiles are calculated using ANZECC (2000) methodology (section 7.4.4.1)

** Reference sites are defined in Table C6.

Table C6: Receiving Water Upstream Background Sites and Downstream Monitoring Points

Monitoring points	Receiving waters location description	Easting (GDA94)	Northing (GDA94)
Upstream background monitoring points			
Ref 1	Roper Creek at western ML70379 boundary (Upstream of Thirteen Mile Gully diversion)	667,484	7,471,112
Downstream monitoring points			
IMPAC1	Roper Creek at Middlemount Road	671,505	7,469,167
IMPAC2	Roper Creek Tributary at Middlemount Road	673,094	7,471,230

Note:

a) The upstream monitoring point should be within 6 km of the release point.

b) The downstream point should not be greater than 6 km from the release point.

c) The data from background monitoring points should not be used where they are affected by releases from other mines.

C19 Receiving environment monitoring program (REMP)

The environmental authority holder must develop and implement a revised Receiving Environment Monitoring Program (REMP) to monitor, identify and describe any adverse impacts to surface water environmental values, quality and flows due to the authorised mining activity. This must include monitoring the effects of the mine on the receiving environment periodically (under natural flow conditions) and while mine affected water is being discharged from the site.

For the purposes of the REMP, the receiving environment is the waters of Roper Creek and connected waterways within ten (10) km downstream of the release. The REMP should encompass any sensitive receiving waters or environmental values downstream of the authorised mining activity that will potentially be directly affected by an authorised release of mine affected water.

C20 A REMP Design Document that addresses the requirements of the REMP must be prepared and made available to the administering authority upon request.

C21 A report outlining the findings of the REMP, including all monitoring results and interpretations must be prepared annually and made available on request to the administering authority. This must include an assessment of background reference water quality, the condition of downstream water quality compared against water quality objectives, and the suitability of current discharge limits to protect downstream environmental values.

C22 Water reuse

Mine affected water may be piped or trucked or transferred by some other means that does not contravene the conditions of this environmental authority and deposited into artificial water storage structures, such as farm dams or tanks, or used directly at properties owned by the environmental authority holder or a third party (with the consent of the third party).

- C23 Water general
All determinations of water quality and biological monitoring must be performed by an appropriately qualified person.
- C24 The release of any contaminants as permitted by this environmental authority, directly or indirectly to waters, other than internal water management infrastructure that is installed and operated in accordance with a water management plan that complies with Conditions C26 to C27 inclusive:
a) must not produce any visible discolouration of receiving waters; and
b) must not produce any slick or other visible or odorous evidence of oil, grease or petrochemicals nor contain visible floating oil, grease, scum, litter or other objectionable matter.
- C25 Annual water monitoring reporting
The following information must be recorded in relation to all water monitoring required under the conditions of this environmental authority and submitted to the administering authority in the specified format with each annual return:
a) the date on which the sample was taken;
b) the time at which the sample was taken;
c) the monitoring point at which the sample was taken;
d) the measured or estimated daily quantity of the mine affected waters released from all release points;
e) the release flow rate at the time of sampling for each release point;
f) the results of all monitoring and details of any exceedance with the conditions of this environmental authority; and
g) water quality monitoring data must be provided to the administering authority in the specified electronic format upon request.
- C26 Water Management Plan
A Water Management Plan must be developed by an appropriately qualified person and implemented for all stages of the mining activities.
The Water Management Plan must be reviewed, updated and submitted to the administering authority at an interval no greater than 3 years from the previous submission of a Water Management Plan.
- C27 A copy of the Water Management Plan must be provided to the administering authority on request.
- C28 Saline drainage
The holder of this environmental authority must ensure proper and effective measures are taken to avoid or otherwise minimise the generation and/or release of saline drainage.
- C29 Acid rock drainage
The holder of this environmental authority must ensure proper and effective measures are taken to avoid or otherwise minimise the generation and/or release of acid rock drainage.

C30 Stormwater and water sediment controls

An Erosion and Sediment Control Plan must be developed by an appropriately qualified person and implemented for all stages of the mining activities on the site to minimise erosion and the release of sediment to receiving waters and contamination of stormwater.

The Erosion and Sediment Control Plan must be reviewed, updated and submitted to the administering authority at an interval no greater than 3 years from the previous submission of an Erosion and Sediment Control Plan.

C31 Stormwater, other than mine affected water, is permitted to be released to waters from:

- a) erosion and sediment control structures that are installed and operated in accordance with the Erosion and Sediment Control Plan required by Condition C30; and
- b) water management infrastructure that is installed and operated, in accordance with a Water Management Plan that complies with Conditions C26 to C27 inclusive, for the purpose of ensuring water does not become mine affected water.

C32 The holder of this environmental authority must provide to the administering authority, via an environmental authority amendment application, a sodium value in Table C3: Release Contaminant Trigger Investigation Levels Potential Contaminants, by 31 August 2020.

C33 Groundwater

Groundwater affected by the mining activities must be monitored at the locations and frequencies specified in Table C7: Groundwater Monitoring Locations and Frequency for the parameters identified in Table C8: Groundwater Investigation Trigger Levels.

C34 The groundwater investigation trigger levels limit type 'Median" referred to in Table C8: Groundwater Investigation Trigger Levels must be determined on the most recent three (3) consecutive routine monitoring samples.

Table C7: Groundwater Monitoring Locations and Frequency

Monitoring points	Easting (GDA 94)	Northing (GDA 94)	Monitoring frequency
Monitoring Point MW2	667,603	7,471,239	Quarterly
Monitoring Point MW3 ^a	670,647	7,469,955	
Monitoring Point MW4	667, 683	7,468,659	
Monitoring Point MW5	668,786	7,469,364	
Monitoring Point MW6	669,452	7,468,670	
Monitoring Point MW9A	670,246	7,469,610	
Monitoring Point MW10A	669,783	7,475,981	
Monitoring Point MW11A	672,355	7,472,275	
Monitoring Point MW12A	671,640	7,469,853	
Monitoring Point MW13A	669,032	7,468,890	

Note:

a) MW3 will continue to be monitored until pit progression prevents monitoring. MW9A installed as a replacement well for MW3.

- C35 Subject to requirements of Condition C33, if the groundwater investigation trigger levels defined in Table C8: Groundwater Investigation Trigger Levels are exceeded then the environmental authority holder must complete an investigation into the potential for environmental harm and notify the administering authority within twenty-eight (28) days of receiving the analysis results.
- C36 Groundwater levels affected by the mining activities must be monitored at the locations and frequencies defined in Table C9: Groundwater Levels.
- C37 In the event that groundwater fluctuations exceed the groundwater level trigger values defined in Table C10: Groundwater Level Trigger Values at the groundwater monitoring locations nominated in Table C9: Groundwater Levels, an investigation must be undertaken within fourteen (14) days of detection to determine if the fluctuations are a result of:
- (a) mining activities;
 - (b) pumping from licensed bores; or
 - (c) seasonal variation.
- C38 If the results of the investigation undertaken in accordance with Condition C37 identify that the groundwater fluctuations are a result of mining activities, the holder of the environmental authority must notify the administering authority and provide a copy of a report detailing the findings and outcomes of the investigation within seven (7) days of completing the investigation.

Table C8: Groundwater Investigation Trigger Levels

Parameter	Unit	Trigger Levels	Limit Type
pH	pH Units	6.5 – 8.5	Minimum/Maximum
Electrical Conductivity	µS/cm	35,000	Maximum
Total Dissolved Solids	mg/L	23,548	Maximum
Calcium	mg/L	1,000	Median
Magnesium	mg/L	2,000	Median
Sodium	mg/L	6,700	Median
Potassium	mg/L	43	Median
Chloride	mg/L	12,700	Median
SO ₄	mg/L	2,000	Median
CO ₃	mg/L	7.65	Median
HCO ₃	mg/L	798	Median
Iron	mg/L	13.984	Maximum
Mercury	mg/L	0.002	Maximum
Selenium	mg/L	0.034	Maximum
Total Petroleum Hydrocarbons (C10-14)	µg/L	50	Maximum
Total Petroleum Hydrocarbons (C15-28)	µg/L	184.8	Maximum
Total Petroleum Hydrocarbons (C29-36)	µg/L	89.2	Maximum

Table C9: Groundwater Levels

Monitoring points	Easting (GDA94)	Northing (GDA94)	Surface RL(m)	Frequency
MW2	667,603	7,471,239	162.54	Quarterly
MW3 ^a	670,647	7,469,955	155.44	Quarterly
MW4	667,683	7,468,659	183.11	Quarterly
MW5	668,786	7,469,364	157.68	Quarterly
MW6	669,452	7,468,670	158.26	Quarterly
MW5M ^b	667,790	7,475,131	174.52	Quarterly
MW5P ^b	667,796	7,475,130	174.66	Quarterly
MW7M ^b	669,668	7,472,167	161.15	Quarterly
MW7P ^b	669,777	7,472,247	163.87	Quarterly
MW8FR ^b	669,941	7,472,277	164.33	Quarterly
MW9A	670,246	7,469,610	156.32	Quarterly
MW9M	670,243	7,469,619	156.36	Quarterly
MW9P	670,251	7,469,592	156.26	Quarterly
MW10A	669,783	7,475,981	175.75	Quarterly
MW11A	672,355	7,472,275	156.21	Quarterly
MW12A	671,640	7,469,853	158.28	Quarterly
MW13A	669,032	7,468,890	162.79	Quarterly

Notes:

a. MW3 will continue to be monitored until pit progression prevents monitoring. MW9A installed as a replacement well for MW3;

b. To be monitored until pit progression prevents monitoring.

Table C10: Groundwater Level Trigger Values

Monitoring points	Trigger Level Threshold
MW2	>2 metres per year
MW3a	total groundwater level of <115.39 metres
MW4	>2 metres per year
MW5	total groundwater level of <140.4 metres
MW6	>2 metres per year
MW9A	total groundwater level of <118.17 metres
MW10A	>2 metres per year
MW11A	>2 metres per year
MW12A	>2 metres per year
MW13A	>2 metres per year

Notes:

a. MW3 will continue to be monitored until pit progression prevents monitoring. MW9A installed as a replacement well for MW3;

- C39 The groundwater monitoring data must be reviewed on an annual basis. The review must include the assessment of groundwater levels and quality data, and the suitability of the monitoring network. The assessment must be submitted to the administering authority within twenty-eight (28) days of receiving the report.

- C40 Groundwater monitoring
The following information must be recorded in relation to all water sampling:
(a) the date on which the sample was taken;
(b) the time at which the sample was taken;
(c) the monitoring point at which the sample was taken;
(d) the results of all monitoring;
(e) groundwater levels; and
(f) sampling methodology.
- C41 The method of water sampling required by this environmental authority must comply with that set out in the latest edition of the administering authority's Water Quality Sampling Manual.
- C42 Sewage Treatment
The daily operation of the sewage treatment plant and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
- C43 Treated effluent from the sewage treatment plant must only be discharged from the authorised discharge points, as specified in Table C11: Effluent Discharge Locations.

Table C11: Effluent Discharge Locations

Authorised discharge points	Location
STP Discharge Point 1	Tailings Storage Facility

- C44 Treated effluent must not be released to land, or used for irrigation or dust suppression.
- C45 Treated effluent must not be released from the site to any waters or the bed and banks of any waters.
- C46 Water or stormwater contaminated by sewage treatment activities must not be released to any waters or the bed and banks of any waters.
- C47 Biosolids
Biosolids produced by the activity for re-use must be:
(a) sampled, analysed, graded and classified according to the procedures specified in the administering authorities systems and standard; and
(b) re-used under a relevant approval issued by the administering authority.