Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6672/2022/1
Works approval holder	Newcam Minerals Pty Ltd
ACN	30 627 911 997
Registered business address	Suite 7, 141 York Street ALBANY WA 6330
DWER file number	DER2021/000727
Duration	07/07/2022 to 07/07/2027
Date of issue	07/07/2022
Premises details	Mt Gould Iron Ore Project Legal description - Mining Tenement M52/236 Landor – Meekatharra Road PEAK HILL WA 6642 As defined by the Premises map in Schedule 1

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed production capacity**
Category 5: Processing or beneficiation of metallic or non-metallic ore	5.03 million tonnes per annual period

This works approval is granted to the works approval holder, subject to the attached conditions, on 7 July 2022, by:

Christine Pustkuchen
Digitally signed by Christine Pustkuchen
Date: 2022.07.07 13:31:13 +08'00'

Christine Pustkuchen
A/MANAGER, RESOURCE INDUSTRIES
REGULATORY SERVICES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
07/07/2022	W6672/2022/1	Works approval granted for the construction, commissioning and time limited operations of a mobile crushing and screening plant.

Interpretation

In this works approval:

(a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;

(b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

(c) where tables are used in a condition, each row in a table constitutes a separate condition;

(d) any reference to an Australian or other standard, guideline, or code of practice in this works approval:

  (i) if dated, refers to that particular version; and

  (ii) if not dated, refers to the latest version and therefore may be subject to change over time;

(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

(f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

The works approval holder must ensure that the following conditions are complied with:

Construction phase

Infrastructure and equipment

1. The works approval holder must:

(a) construct and/or install the infrastructure and/or equipment;

(b) in accordance with the corresponding design and construction requirements; and

(c) at the corresponding infrastructure location

as set out in Table 1.

Table 1: Construction / installation requirements

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Crushing and screening plant with associated equipment	(a) Constructed in accordance with design drawing MX2122301 provided in Figure , Schedule 2; (b) Installation and setup of three stage diesel hydraulic unit consisting of the following machinery (or equivalent): • JM1380 Jaw Crusher (Primary crusher); • CM400 Cone Crusher (Secondary crusher); • SCH208 Modular Screener (Screening plant); • 30t Excavator; and • Front end loader. (c) Installation of dust suppression sprays throughout the plant, at the head of the conveyor and material discharge points.	Labelled as “Crushing and Screening” in the Premises Layout Map as depicted in Figure 1 of Schedule 1.
2	Associated ancillary	(a) Bunded containment areas (surrounding hydrocarbon and chemical storage) to have a minimum capacity of 110% of the largest container stored within it; (b) Refueling and fuel delivery inlets to be constructed on concrete or be High-density polyethylene lined to contain any potential spills or drips; and (c) Hydrocarbon storage areas to be graded to direct any potentially contaminated stormwater runoff to a concrete or HDPE lined collection sump located adjacent to the refueling facility in the hardstand area to the north of the processing area.	Located in accordance with the Premises Layout Map as depicted in Figure 1 of Schedule 1.
3	Stormwater management infrastructure	<u>Contaminated stormwater management:</u> (a) Stormwater diversion drains with a 1:3 side slope and stormwater diversion bunding with a	Located in accordance with the Stormwater Management

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location
		minimum top width of 3m and 1:3 side slope to be constructed: • along the western toe of the WRD; • around the processing area; and • on the eastern and western sides of the flood diversion drains where it intersects the processing area. (b) A minimum of five sedimentation basins to be constructed downstream of the operating areas in the locations shown in Figure , Schedule 1, for the collection of contaminated stormwater/sediment runoff via stormwater diversion drains; (c) The storage capacity of each sediment basin installed at the Premises to be as follows: • 2 basins at the open pit – 100m^2 capacity each. • 1 basin at the flood diversion drain – 900 m^2 capacity. • 1 basin at the WRD – 300 m^2 capacity; and • 1 basin at the stockpile area – 300 m^2 capacity. (d) Design capacity of each sediment basin to be sized to contain a 20% (1 in 5 year) AEP rainfall event <u>Uncontaminated stormwater management:</u> (e) Stormwater diversion drains with a 1:3 side slope and stormwater diversion bunding with a minimum top width of 3m and 1:3 side slope to be constructed: • on the southern side of the Premises to direct uncontaminated stormwater runoff to Turkeys nest 1; • along the eastern side of the Haul Road to direct uncontaminated stormwater runoff from processing areas; and • along the western side of the Haul Road to direct uncontaminated stormwater runoff away from the processing areas. (f) A flood diversion drain shall be constructed along the eastern side of the haul road and around the processing area to divert uncontaminated stormwater/sedimentation runoff to Turkey's nest 1 for reuse at the Premises; and (g) The flood diversion drain shall be constructed with compacted oxide or clay material and will be 1m wide x 1m deep and has been designed with a 1% AEP event.	Infrastructure Map as depicted in in Figure 2 of Schedule 1.
4	25 kL primary	A water cart with water cannon must be available at all times at the Premises during the construction phase to	Within the Prescribed Premises boundary

Item	Infrastructure	Design and construction / installation requirements	Infrastructure location
	watercart	suppress dust generated via earthworks, installation of the crushing and screening plant and vehicle movements.	depicted in Figure 1 of Schedule 1.

Compliance reporting

2. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:

(a) undertake an audit of their compliance with the requirements of condition 1; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

3. The Environmental Compliance Report required by condition 2, must include as a minimum the following:

(a) certification by a suitably qualified and experienced engineer that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;

(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and

(c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Baseline native vegetation health assessment

4. Prior to the commencement of environmental commissioning, the works approval holder must engage a person qualified in vegetation identification and sampling and undertake a baseline assessment of native vegetation health as detailed in Table 2.

Table 2: Baseline native vegetation health assessment monitoring

Monitoring point	Monitoring requirements	Timeframe
Native vegetation located within 500m from the crushing and screening area as highlighted in Figure 1.	(a) Conduct three native vegetation monitoring plots (each 20m wide and 20m long) within the monitoring point specified, with at least one to the east and one to the west of the crushing and screening area; (b) Photograph and record the vegetation condition within the three vegetation monitoring plots in accordance with the Keighery, B.J (1994) scale; and (c) Situated outside of the approved clearing footprint issued under clearing permit CPS 9417/1.	Baseline native vegetation health assessment must be completed prior to the commencement of environmental commissioning.

Environmental commissioning phase

Environmental commissioning requirements and emission limits

5. The works approval holder may only commence environmental commissioning of an

item of infrastructure listed in condition 6 once the Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 2 of this works approval.

6. The works approval holder must ensure that any environmental commissioning activities undertaken for an item of infrastructure specified in Table 3 are carried out:

(a) in accordance with the corresponding commissioning requirements; and

(b) for the corresponding authorised commissioning duration.

of Table 3.

Table 3: Environmental commissioning requirements

Infrastructure	Commissioning requirements	Authorised commissioning duration
Crushing and Screening Plant	Environmental commissioning is comprised of: (a) Functional testing of interlocks between each unit of the circuit; and (b) Dust suppression sprays to be tested to ensure functionality and effectiveness.	For a period not exceeding 28 calendar days in aggregate.

Environmental Commissioning Reporting

7. The works approval holder must submit to the CEO an Environmental Commissioning Report within 30 calendar days of the completion date of environmental commissioning for each item of infrastructure specified in Table 3.

8. The works approval holder must ensure the Environmental Commissioning Report required by condition 7 of this works approval includes the following:

(a) a summary of the environmental performance of each item of infrastructure or equipment as constructed or installed, which at minimum includes records detailing the:

(i) environmental commissioning of the crushing and screening plant; and
(ii) testing the dust suppression system.

(b) a review of the works approval holder's performance and compliance against the conditions of this works approval; and

(c) where they have not been met, measures proposed to meet the manufacturer's design specifications and the conditions of this works approval, together with timeframes for implementing the proposed measures.

Time limited operations phase

Commencement and duration

9. The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 11:

(a) where the item of infrastructure is not authorised to undertake environmental commissioning, the Environmental Compliance Report as required by

condition 2 has been submitted by the works approval holder for that item of infrastructure; and

(b) where the item of infrastructure is authorised to undertake environmental commissioning under condition 4, the Environmental Commissioning Report for that item of infrastructure as required by condition 6 has been submitted by the works approval holder.

10. The works approval holder may only conduct time limited operations for an item of infrastructure specified in condition 11:

(a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 9 for that item of infrastructure; or

(b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*.

whichever is sooner.

Time limited operations requirements and emission limits

11. During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 4 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 4.

Table 4: Infrastructure and equipment requirements during time limited operations

Item	Site infrastructure and equipment	Operational requirements	Infrastructure location
1.	Crushing and screening plant	(a) Dust suppression sprays must be operated throughout the plant, at the head of the conveyor and material discharge points to minimise dust generation; (b) Truckloads of bulk dry products to be transported in covered containers prior to leaving the Premises to minimise dust lift-off; (c) Dust suppression sprays to be operated on the product stockpiles to control levels of dust lift off; (d) Ensure no visible dust generated from the primary activities (crushing and screening of iron ore) crosses the boundary of the premises; (e) Daily visual assessment of fugitive dust emissions and review of meteorological conditions (wind speed and direction) from the site weather station to be conducted by the responsible supervisor/manager on duty; (f) If dust management controls are not preventing dust generated from the primary activities from crossing the boundary, further controls for managing dust are required to be implemented, including but not limited to:	Labelled as “Crushing and Screening” in the Premises Layout Map as depicted in Figure 1 of Schedule 1.

Item	Site infrastructure and equipment	Operational requirements	Infrastructure location
		(i) additional application of water from onsite water carts; (ii) crushing and screening plant to be placed into idle; or (iii) application of dust suppression agents. (g) If the application of the additional dust management controls specified in (f) (i-iii) are not preventing dust generated from the primary activities from crossing the boundary, operation of the crushing and screening plant must be ceased; and (h) Record volumes of ore processed through the crushing and screening plant.	
	Associated ancillary	(i) Ensure bunded areas (surrounding hydrocarbon and chemical storage) have a minimum capacity of 110% of the largest container stored within it; (j) Ensure collection sump and bunded hydrocarbon and chemical storage areas are maintained through regular inspections to prevent overflowing of contaminated stormwater; (k) Collection sump containing contaminated water to be pumped out and contained for appropriate disposal off-site by a licensed waste disposal service; (k) Refueling and fuel delivery shall be maintained on concrete or high-density polyethylene lined areas to contain any potential spills or drips; and (l) Spill kits must be retained on site, for use in the event of a hydrocarbon or chemical spill, used by personal trained in spill response and clean up.	
2	Stockpile material	(a) Stockpiles are to be located away from stormwater flows to minimise the potential losses through sedimentation runoff; (b) Dust suppression sprays must be operated throughout the plant and watercarts to control levels of fugitive dust lift off from product stockpiles; and (c) Stockpiles of material required for the on-going maintenance of roads at the Premises must be covered to minimise erosion and dust lift-off.	Labelled as “Product Stockpile area”, “Stockpile area” and “Ore Stockpile” in the Premises Layout Map as depicted in Figure 1 of Schedule 1.

Item	Site infrastructure and equipment	Operational requirements	Infrastructure location
3.	Stormwater Management System	(a) Potentially contaminated stormwater to be captured and prevented from being released in the environment; (b) Ensure that uncontaminated stormwater is kept separate from contaminated or potentially contaminated stormwater; and (c) Sedimentation basins must be inspected on a weekly basis and following significant rainfall events and pumped out to remove excess sediment to prevent overflowing of contaminated stormwater.	Located in accordance with the Stormwater Management Infrastructure Map as depicted in Figure 1 of Schedule 1.
4.	Watercarts (25kL, 90kL and 10kL)	(a) 25 kL primary water cart with water cannon must be available at all times at the premises during operation phase to manage dust emissions during pit and plant activities; (b) 90 kL road-train style water cart and smaller rigid 10kL water cart to be maintained at all times at the premises during operation phase.	Within the Prescribed Premises boundary depicted in Figure 1 of Schedule 1.

Native Vegetation Health Assessment during Time Limited Operations

12. Following the commencement of time limited operations, the works approval holder must engage a person qualified in vegetation identification and sampling and undertake an assessment of native vegetation health as detailed in Table 5:

Table 5: Native Vegetation Health Assessment monitoring

Monitoring point	Monitoring requirements	Frequency
Native vegetation located within 500m from the crushing and screening area as highlighted in Figure 1	• Conduct three native vegetation monitoring plots (each 20m wide and 20m long) within the monitoring point specified, with at least one plot taken to the east and one plot taken to the west of the crushing and screening area; • Photograph and record the vegetation condition within the three vegetation monitoring plots in accordance with the Keighery, B.J (1994) scale; and • Situated outside of the approved clearing footprint issued under clearing permit CPS 9417/1.	Native vegetation health assessment must be conducted quarterly from the commencement of the Time Limited Operations Phase.

Compliance reporting

13. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations or 90 calendar days before the expiration date of the works approval, whichever is the sooner.

14. The works approval holder must ensure the report required by condition 13 includes the following:

(a) a summary of the time limited operations, including timeframes and amount of iron ore processed;

(b) a summary of the environmental performance of all infrastructure as constructed or installed (as applicable), which includes records detailing the:

(i) crushing and screening plant;

(ii) dust suppression system; and

(iii) stormwater management system.

(c) a comparison of the environmental monitoring data obtained during the baseline native vegetation health assessment as required by condition 4 against the results obtained during the native vegetation health assessment as required by condition 12, and includes an assessment of any deterioration in the presence and/or quality of vegetation;

(d) a review of performance and compliance against the conditions of the works approval and the Environmental Commissioning Report; and

(e) where the manufacturer's design specifications and the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

Records and reporting (general)

15. The works approval holder must record the following information in relation to complaints received by the works approval holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

(a) the name and contact details of the complainant, (if provided);

(b) the time and date of the complaint;

(c) the complete details of the complaint and any other concerns or other issues raised; and

(d) the complete details and dates of any action taken by the works approval holder to investigate or respond to any complaint.

(e) be available to be produced to an inspector or the CEO as required.

16. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

(a) the works conducted in accordance with condition 1;

(b) any maintenance of infrastructure that is performed in the course of complying with this works approval;

(c) Monitoring undertaken in accordance with condition 4 and 12;

(d) complaints received under condition 15.

17. The books specified under condition 16 must:

(a) be legible;

(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

(c) be retained by the works approval holder for the duration of the works approval; and

(d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 6 have the meanings defined.

Table 6: Definitions

Term	Definition
AEP	means Annual Exceedance Probability
Annual Period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
Books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
Condition	A condition to which this works approval is subject under section 62 of the EP Act.
Department	means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V Division 3 of the EP Act.
Discharge	has the same meaning given to that term under the EP Act.
Emission	has the same meaning given to that term under the EP Act.
Environmental Commissioning	means the sequence of activities to be undertaken to test equipment integrity and operation, or to determine the environmental performance, of equipment and infrastructure to establish or test a steady state operation and confirm design specifications.
Environmental Commissioning Report	means a report on any commissioning activities that have taken place and a demonstration that they have concluded, with focus on emissions and discharges, waste containment, and other environmental factors.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	*Environmental Protection Act 1986* (WA).
EP Regulations	*Environmental Protection Regulations 1987* (WA).
HDPE	means High Density Polyethylene

Term	Definition
Keighery, B.J. (1994)	means the scale used to measure the condition of the vegetation within the monitoring point specified under Table 4 and Table 5 of this works approval extracted from B.J. (1994) *Bushland Plant Survey: A Guide to Plant Community Survey for the Community*. Wildflower Society of WA (Inc). Nedlands, Western Australia.
Premises	the premises to which this works approval applies, as specified at the front of this works approval and as shown on the Premises Layout Map (Figure 1) in Schedule 1 to this works approval.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Processing Area	Means the area at the Premises that contains the ROM pad, process plant and stockpiles area.
Suitably Qualified Persons	Means a person who: (a) Holds a Bachelor of Engineering recognised by the Institute of Engineers, Australia; and (b) Has a minimum of five years' experience working a supervisory area of structural or mechanical engineering.
Time Limited Operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
Vegetation Condition	Vegetation condition is a rating given to a defined area of vegetation to categorise and rank disturbance related to human activities. The rating refers to the degree of change in the vegetation structure, density and species present in relation to undisturbed vegetation of the same type. The degree of disturbance impacts upon the vegetation's ability to regenerate. Disturbance at a site can be a cumulative effect from a number of interacting disturbance types.
WRD	Means Waste Rock Dump
Works Approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
Works Approval Holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

Schedule 1: Maps

Premises layout map

The boundary of the prescribed premises is depicted by the red line labelled ‘development area’ as shown in the map below.

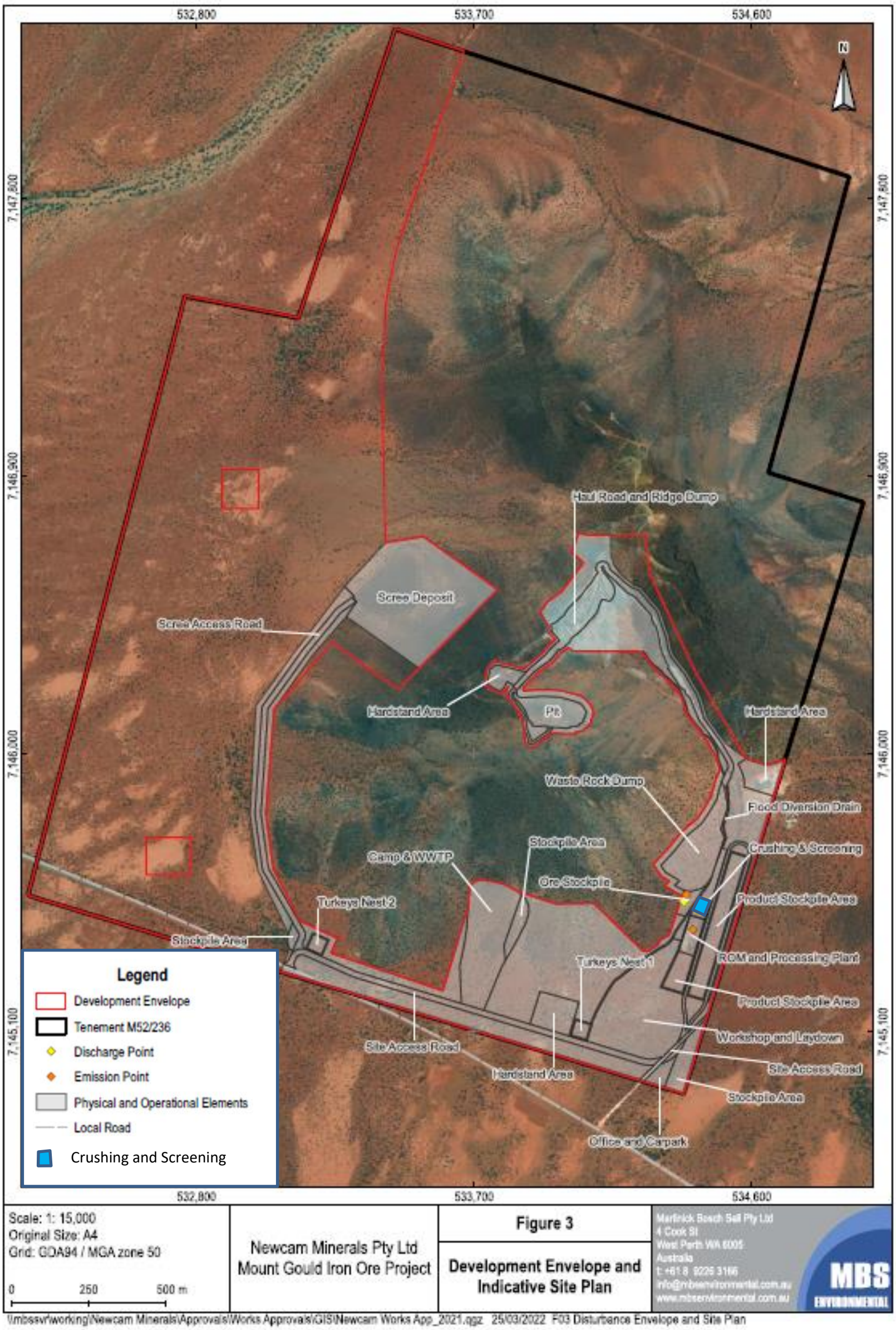

Figure 1: Prescribed Premises map showing proposed layout and locations of infrastructure.

Stormwater Management Infrastructure map

The stormwater management infrastructure proposed to be constructed at the Premises is shown in the map below.

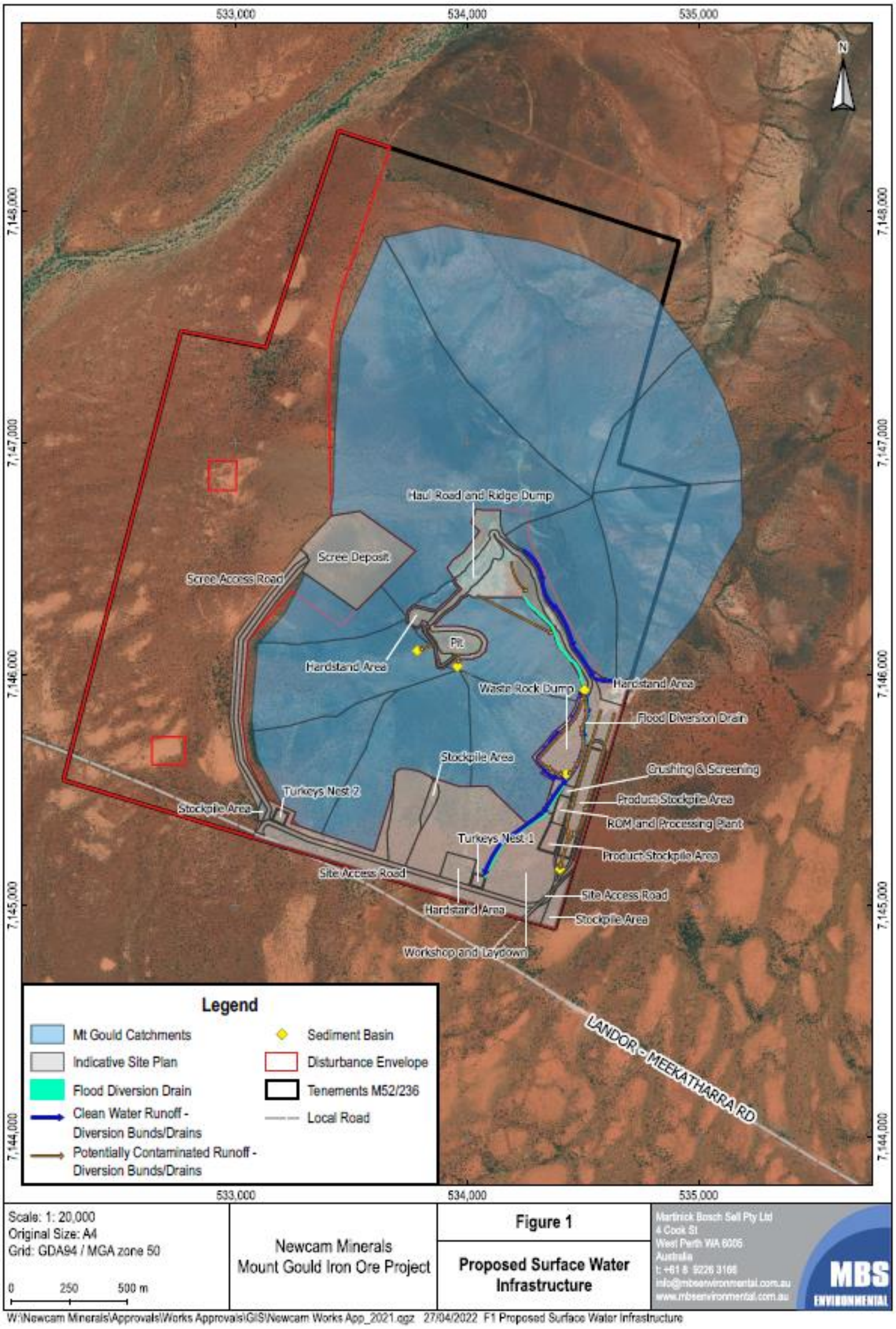

Figure 2: Stormwater management infrastructure at the Prescribed Premises

Schedule 2: Design drawings

Crushing and Screening Plant

A process flow diagram of the mobile crushing and screening operation is shown in the map below.

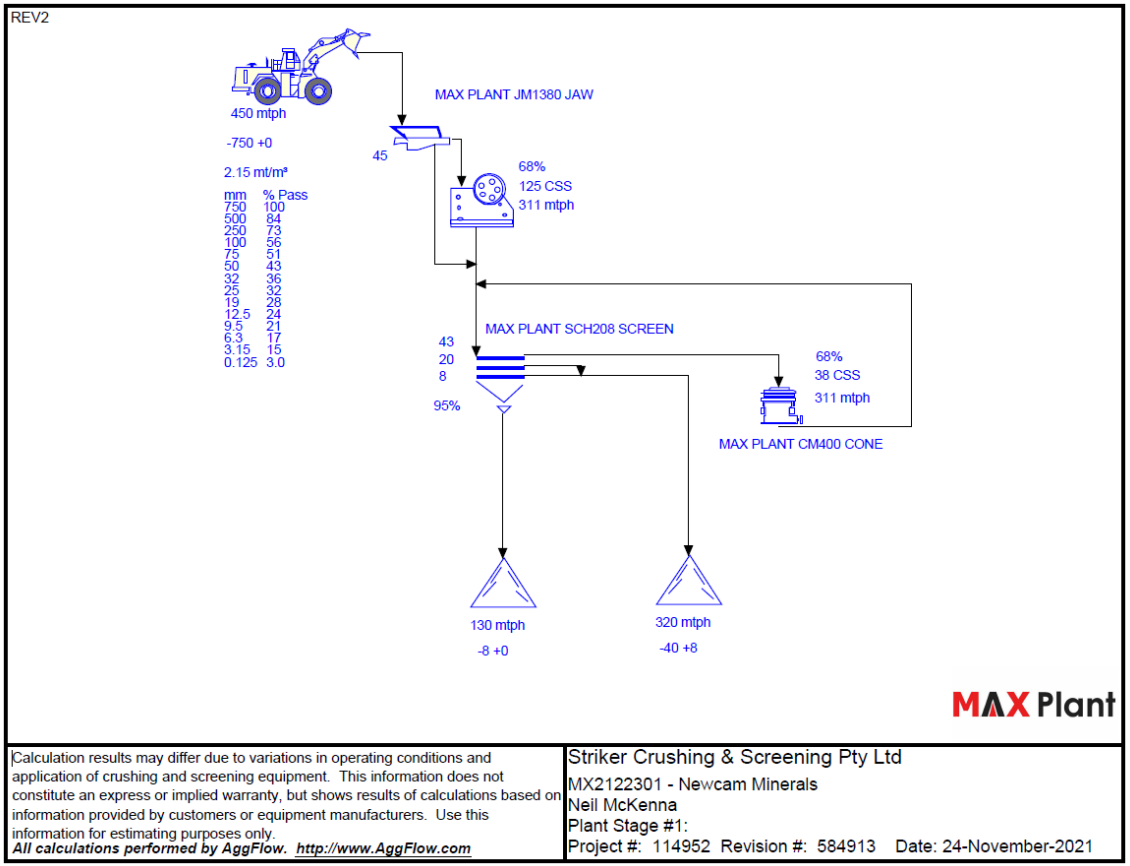

Figure 3: Crushing and Screening Plant Flow Diagram – Design Drawing MX2122301