

Program for Environment Protection and Rehabilitation

Date:	June 2015
Name of Tenement Holder(s):	Montague Thomas Collins
Name of Operation:	McInerheney's Pit
Extractive Minerals Lease No:	EML 6448
Size (Ha):	6.25

File No: 105633-910
Doc No:



Section 1: Quarry Operations

This section specifies proposed mining operations as per Section 70B(2)(a) of the *Mining Act 1971*.

1. Quarry Operations	
1.1 Resource description	The resource can be described as: Limestone The estimated quantity of resource is: 380,000 tonnes. The quarried resource will be used for the following products: - Road base; - Filling for building sites.
1.2 Estimated annual production and quarry life	The estimated annual production is 10,000 tonnes. The proposed quarry is estimated to have a life of 20 years.
1.3 Proposed Final Batter and Depth	The proposed final depth of quarrying below the surrounding ground level is 5 metres. Quarrying is proposed to a final batter of 1 vertical in 3 horizontal.
1.4 Quarrying a sand dune or surface outcrop.	a) n/a ☒ File No. 10/17 Doc No. 10/17
1.5 Quarry equipment	The following equipment will be used to quarry the site: An industrial front end loader will be used to quarry and fill trucks. If a client requires crushed rock a rock crusher weighing approx 5 tonnes will

be used to crush rock. This will be transported to & from site by a contractor.

1.6 Supporting Infrastructure	The quarry will be serviced by trucks of the following size: <u>hosey rigid tipper: empty 12 tonnes loaded 22 tonnes</u> <u>hosey truck & trailer: empty 20 tonnes loaded 39 tonnes</u> Proposed truck movements per operational day.....<u>40</u>..... Quarry trucks will access the site via the following route: <u>Trucks will enter by Eyre Highway</u> <u>↓ Stock Route road and exit by access</u> <u>road directly onto Eyre Highway.</u> <u>This will avoid the problem of trucks</u> <u>crossing in front of each other &</u> <u>much safer entering Eyre Highway at right angles.</u>
1.7 Water Use	Externally sourced water will not be required for operations ☐ The estimated volume of water required annually for quarry operations is <u>20 KL</u>. Water will be sourced from: <u>Only water needed will be by water</u> <u>tanker to dampen dust on access roads.</u> <u>Will be sourced from standpipe in Ceduna</u>

1.8 Mining and Rehabilitation Description

The Mine Plan and description has been included in section 6.2. Mining will commence in a north-west direction consisting of 5 one hectare stages. Each stage will be mined to a 1:3 batter and rehabilitated before moving onto the next stage.

1.9 Hours of operation

☒ Campaign

Mining will occur on a campaign basis with the following operating hours during campaigns:

Monday – Friday: 8am to 5pm

Saturday: No work

Sunday: No work

Public Holidays: No work

Section 3: Management of Environmental Impacts

This section sets out the environmental outcomes, measurement criteria and strategies as per Section 65(2) of the Mining regulations 2011.

3.1 Heritage

Outcome No disturbance to Aboriginal or European heritage sites, objects or remains unless prior approval under the relevant legislation is obtained.	Measurement Criteria Production records and Mine Logbook will demonstrate that upon discovery within the lease of any possible: - Aboriginal sites; - Objects; - Remains; - European sites of significance; that work ceased until the relevant authorities were notified and work recommenced only once authorisation was received.
Control and Management Strategies All contractors and employees operating within the tenement will understand their obligations in regard to the <i>Aboriginal Heritage Act 1988</i> with regards to the discovery of Aboriginal sites, objects or remains and the <i>Heritage Places Act 1993</i> with regards to the discovery of places or objects of significance.	

3.2 Traffic		
Outcome No traffic accidents involving the public at mine access points that could have been reasonably prevented by the Tenement Holder.	Measurement Criteria All traffic accidents involving the public at mine access points are recorded in mine log book. All incidents will be investigated by a suitably qualified independent third party within one calendar month (or other time as agreed with DSD Mining Regulation) and the results of the investigation show that the incident could not have been reasonably prevented by the Tenement Holder.	
Control and Management Strategies		
• All operators will be made aware of the dangers of mine machinery and mine vehicles entering public roads during the site induction • Road signs will be displayed at mine entry and exit points, warning the public of the dangers of large trucks entering and exiting the tenement • Vehicles and machinery will be parked inside the tenement, not along road verges		

3.3 Public Safety (Construction and Operation of the Mine)

Outcome No public injuries and or deaths resulting from unauthorised entry to the site that could have been reasonably prevented.	Measurement Criteria All incidents involving public injury resulting from unauthorised access to the mine site are recorded in mine log book and investigated by a suitably qualified third party within one calendar month (or other time as agreed with DSD Mining Regulation) and the results of the investigation show that the incident could not have been reasonably prevented by the Tenement Holder
Control and Management Strategies (Construction and Operation Phase) Access to the Tenement will be controlled through fencing and gates will be locked when not operational	

3.3a Public Safety (Post Mine Completion)		
Outcome No public injuries or deaths as a result of the final landform post mine completion.	Measurement Criteria Following final rehabilitation work all slopes are battered to at least a 1:3 ratio (18.4 Degrees).	
Control and Management Strategies (Post Mine Completion) • All slopes will be battered to a slope ratio of at least 1:3 • Mining operations will be progressively rehabilitated as per Mine Plan		

3.4 Weeds and Pests		
Outcome	Measurement Criteria	
No introduction of new species of weeds, or pests (including feral animals), nor increase in abundance of existing weed or pest species in the Lease.	Records of annual inspections (in spring and autumn) by the Tenement Holder will demonstrate no introduction of new weeds or pests and no increased abundance of existing weeds and/or pests.	
Control and Management Strategies	Annual weed spraying will be conducted by a suitably experienced person.	

3.5 Soil		
Outcome The existing (pre-mining) soil quality and quantity is maintained.	Measurement Criteria Annual inspection records of soil stockpiles will show all stockpiles to have: - Established vegetative cover; - No signs of erosion (formation of rills, gullies or other evidence of soil loss).	
Control and Management Strategies • Soil stockpiles vegetated to retain soil quality • Soil progressively respread over mined are in stages defined in the Mine Plan • No machinery will be refuelled on site		

3.6 Waste		
Outcome All commercial or industrial waste is disposed of in accordance with relevant legislation.	Measurement Criteria Waste disposal receipts demonstrate that all commercial or industrial waste (including contaminated soil) within the tenement was disposed of offsite in accordance with <i>Environment Protection Act 1993</i> requirements.	
Control and Management Strategies Any general rubbish brought onto the tenement by workers or contractors will be removed on a daily basis or will be stored in rubbish bins and disposed of offsite at an EPA licensed waste facility		

3.7 Noise		
Outcome No public nuisance impacts from noise emanating from the Tenement.	Measurement Criteria Records from mine logbook will demonstrate that any noise complaints received were resolved with the complainant within 48 hours (or other time as agreed with DSD Mining Regulation). If complaints are not resolved the Tenement Holder will conduct noise monitoring at the sensitive receptor to demonstrate noise emissions comply with <i>Environment Protection (Noise) Policy 2007</i> .	
Control and Management Strategies Mining operations will only be carried out between the hours of 8am and 5pm Monday to Friday		

3.8 Air Quality

3.8 Air Quality	
Outcome No nuisance impacts to local residents from dust generated by mining operations.	Measurement Criteria Records from mine logbook will demonstrate that any dust complaints received were resolved with the complainant within 7 days (or other time as agreed with DSD Mining Regulation). If complaints are not resolved the Operator will conduct dust deposition monitoring in accordance with AS/NZ 3580.10.1:2003 on the perimeter of the lease between complainant and mining operations to demonstrate dust emissions comply with the following; Total (insoluble) deposition of 4g/m ² /month, with a maximum increase of 2 g/m ² /month (insoluble solids) at all sensitive locations.
Control and Management Strategies • Rehabilitation will occur progressively in accordance with the Mining Plan • Haul roads will be watered when required to control dust	

3.9 Groundwater		
Outcome No adverse impact to ground water caused by mining operations to existing users and water dependent ecosystems.	Measurement Criteria Mine depth measurement taken at the completion of each stage will demonstrate that mining has occurred to the depth stated in section 1.3 and no mining is undertaken within 2 metres of the estimated highest seasonal groundwater level.	
Control and Management Strategies Machinery will not be refuelled on site.		

3.10 Surface Water		
Outcome	Measurement Criteria	
No water contaminated as a result of mining operations leaves the Tenement area.	Photographic records taken at the beginning of each mining stage, as defined in Mine Plan, will show that runoff from areas disturbed by mining cannot physically leave the tenement area.	
Control and Management Strategies		
- A sump will be created to capture and hold storm water within the working pit - Bund wall/s will be constructed to divert stormwater runoff into the working pit.		

3.11 Visual Amenity		
Outcome All rehabilitation blends in with the surrounding landscape with no impact to external visual amenity.	Measurement Criteria Mine records demonstrate that each rehabilitation stage has been completed in accordance with the approved Mine Plan.	
Control and Management Strategies Mining operations will be progressively rehabilitated as per the Mine Plan.		

5.12 Post Mining Land Use		
Outcome All disturbed land is progressively rehabilitated to achieve the agreed post mining land use.	Measurement Criteria Mine records demonstrate that all disturbed land has topsoil reinstated and is revegetated progressively to achieve the post mining land use of grazing in accordance with the Mining Plan included as Attachment 1.	
Control and Management Strategies Mining operations will be progressively rehabilitated as per the Mine Plan.		

3.11 Protection of Third party Property		
Outcome No unauthorised damage (including that caused by fire) to adjacent public or private property and infrastructure.	Measurement Criteria Any complaints of unauthorised damage will be recorded in the mine logbook at time of complaint and investigated within 7 days (or other time as agreed with DSD Mining Regulation) to show that the mine operator did not cause the damage through mining operations.	
Control and Management Strategies A buffer of 50 metres will be observed from Optus cable shown on Mine Plan. This buffer area will be clearly marked by posts before mining commences.		

3.13 Native Vegetation		
Outcome	Measurement Criteria	
No loss of abundance or diversity of native vegetation on or off the tenement through; • clearance, • dust/contaminant deposition, • fire, • other damage, Unless prior approval under the relevant legislation is obtained.	Annual site survey/photographic evidence will show no clearance of native vegetation identified in Section 1.9 and shown in Mine Plan.	
Control and Management Strategies A buffer zone of a minimum 5m from the canopy drip line of native vegetation will be maintained and flagged during operations, where no excavation, stockpiling or other earthworks will be undertaken within this buffer zone.		

Section 4: Records

Records related to measurement criteria will be kept in a Mine Log Book. All records will be kept for the duration of the lease.

Section 5 Operator Capability

I the Tenement Holder have the following appropriate experience, processes and procedures in place to be able to operate the tenement to meet the environmental outcomes:

The intention is to have a local contractor, with several years experience to mine & transport the soil & crushed rock to destination. I intend to keep in contact with this contractor to ensure that all safety & environmental procedures are adhered to and records kept of hours of operation & rubble carted.

Monty Collins.

Section 6: Maps and Plans

6.1 Location Plan - Site is located 5.5km East of Ceduna as shown below.

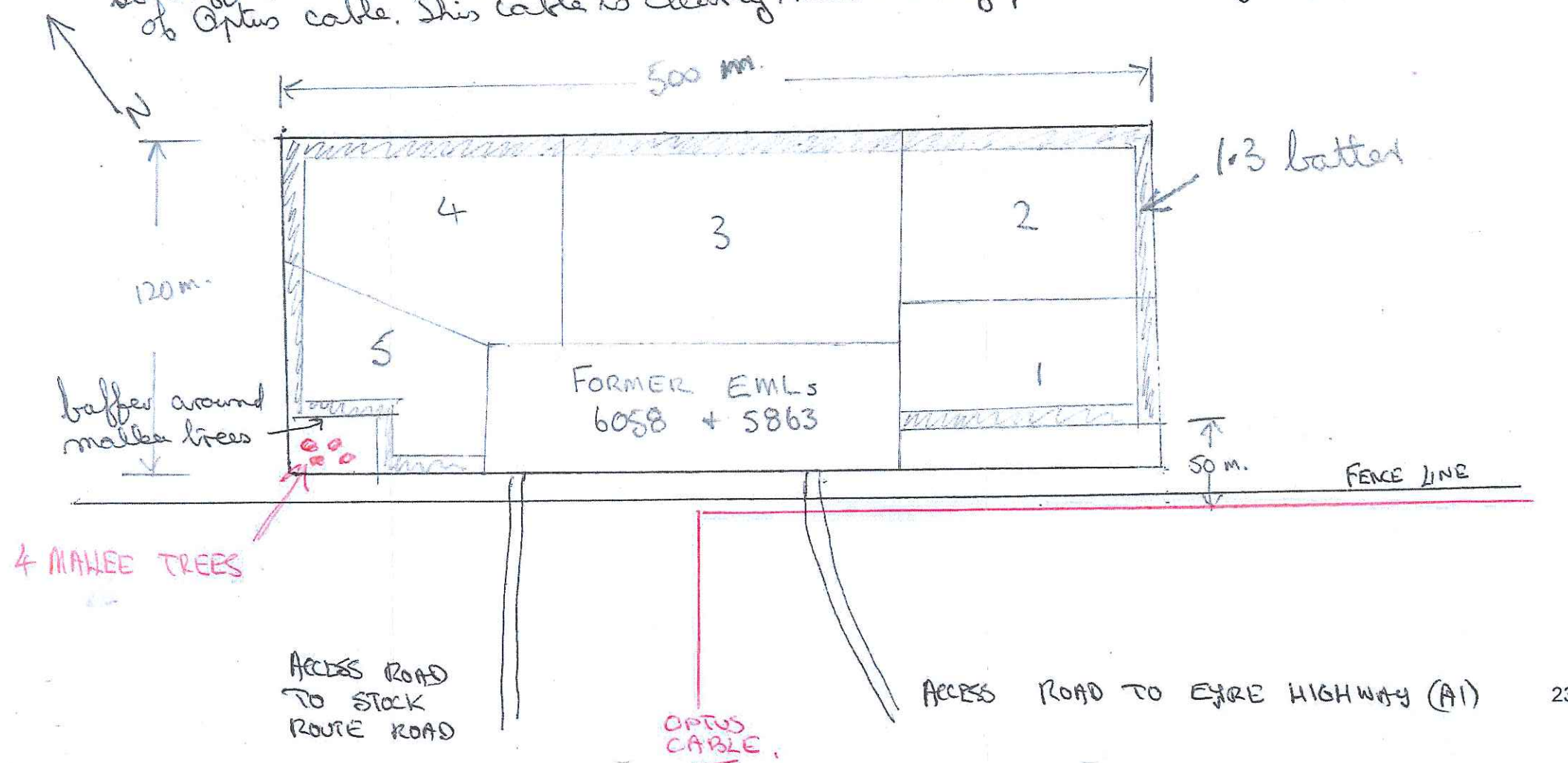


6.2 Mine Plan

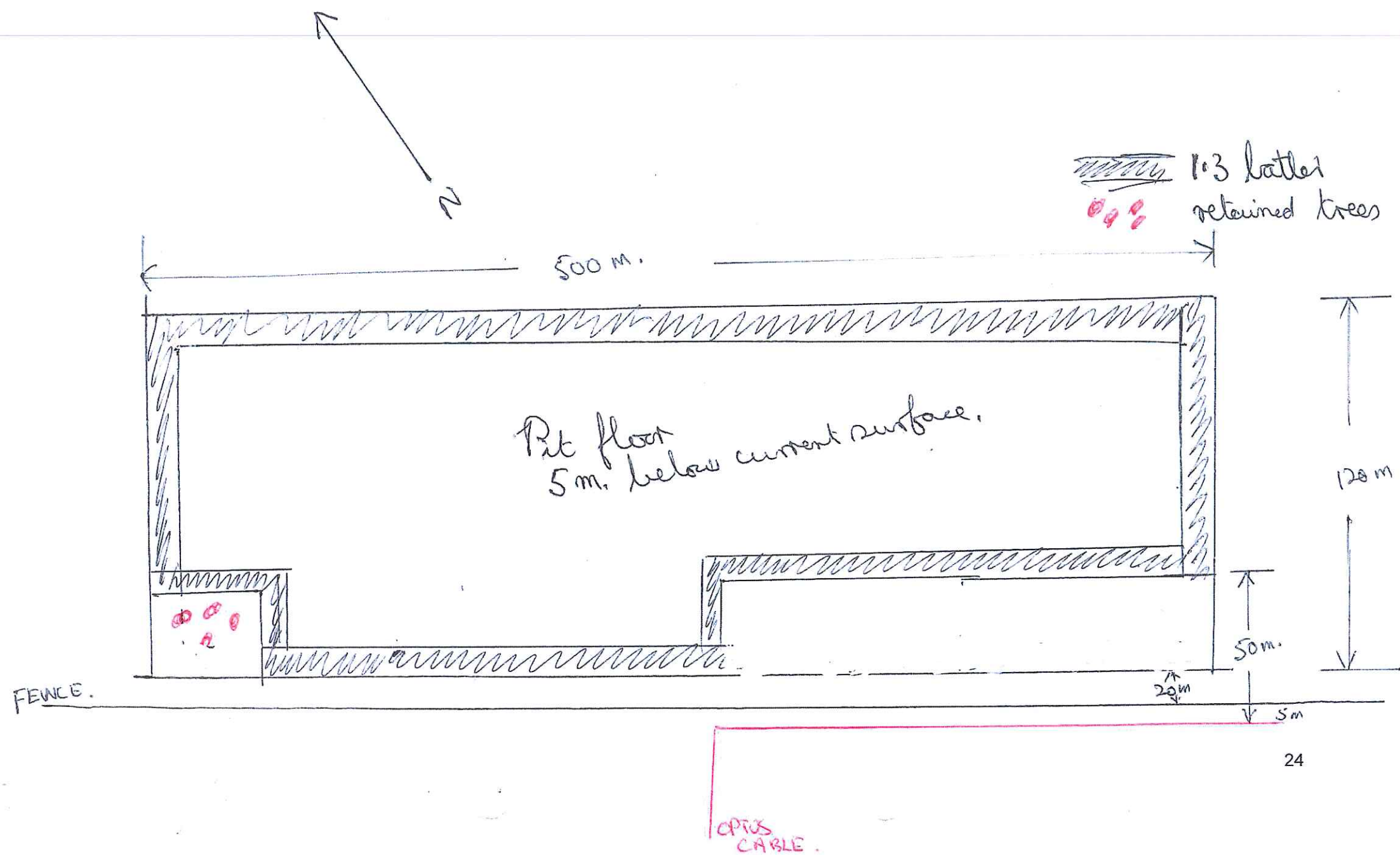
The plan is to mine the EML in 1 hectare stages.

OPTUS CABLE
SHOWN IN RED LINE.

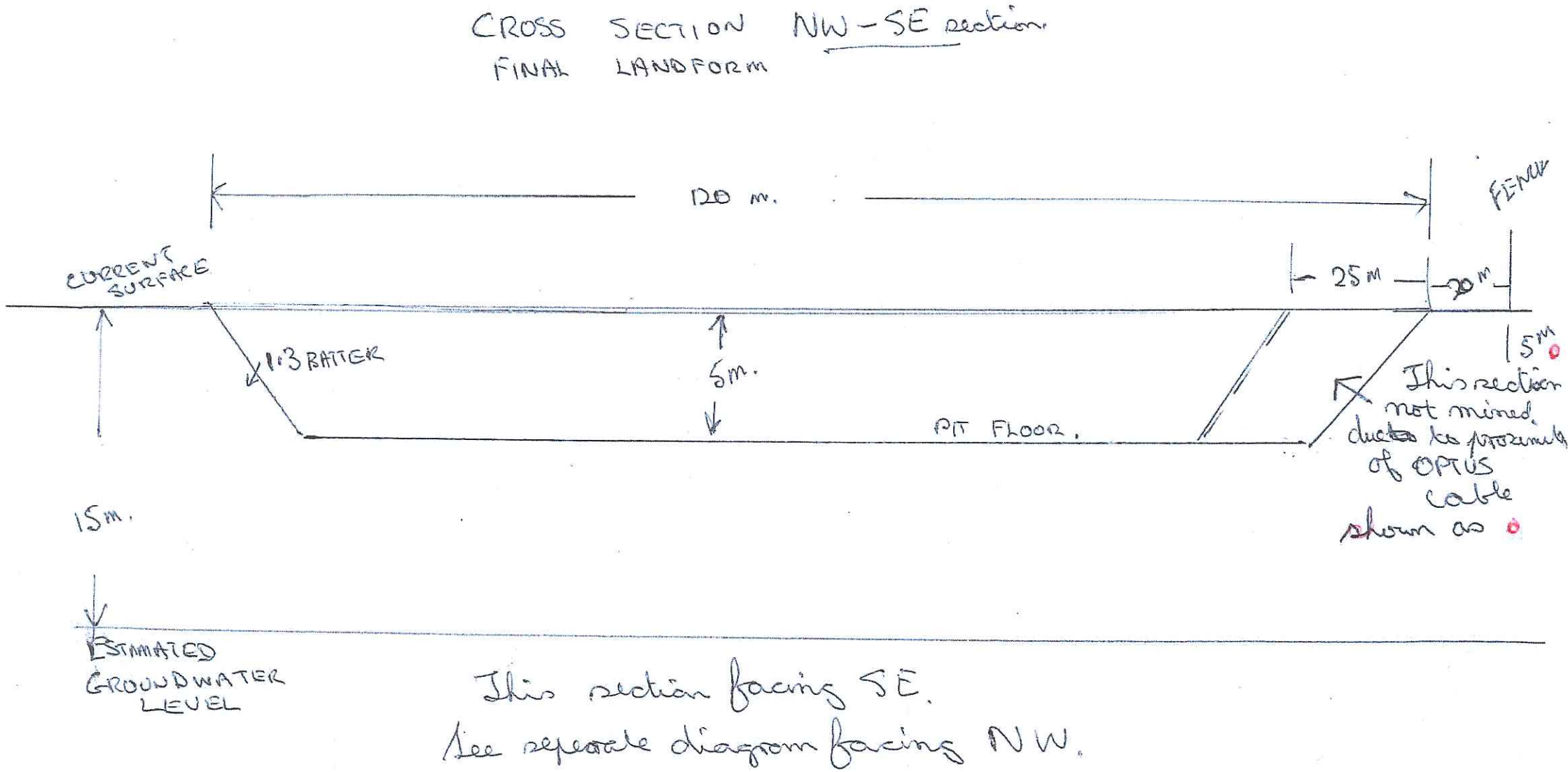
The overburden from stage 1 will be stockpiled on stage 2 & returned to the floor of stage 1 at the completion of stage 1. This procedure will be repeated at each stage, overburden from stage 2 stockpiled on stage 3 & returned to stage 2 before stage 3 is mined, and so on. The overburden from stage 5 will be stockpiled in the old EMLs 6058 & 5863 while stage 5 is being mined. A buffer of overburden will be placed around the mallee trees on stage 5 & emphasised to contractors not to infringe beyond this buffer. No mining is intended in the old EMLs. No mining will be done within 50 m. of Optus cable. This cable is clearly marked by posts showing depth & distance from posts.



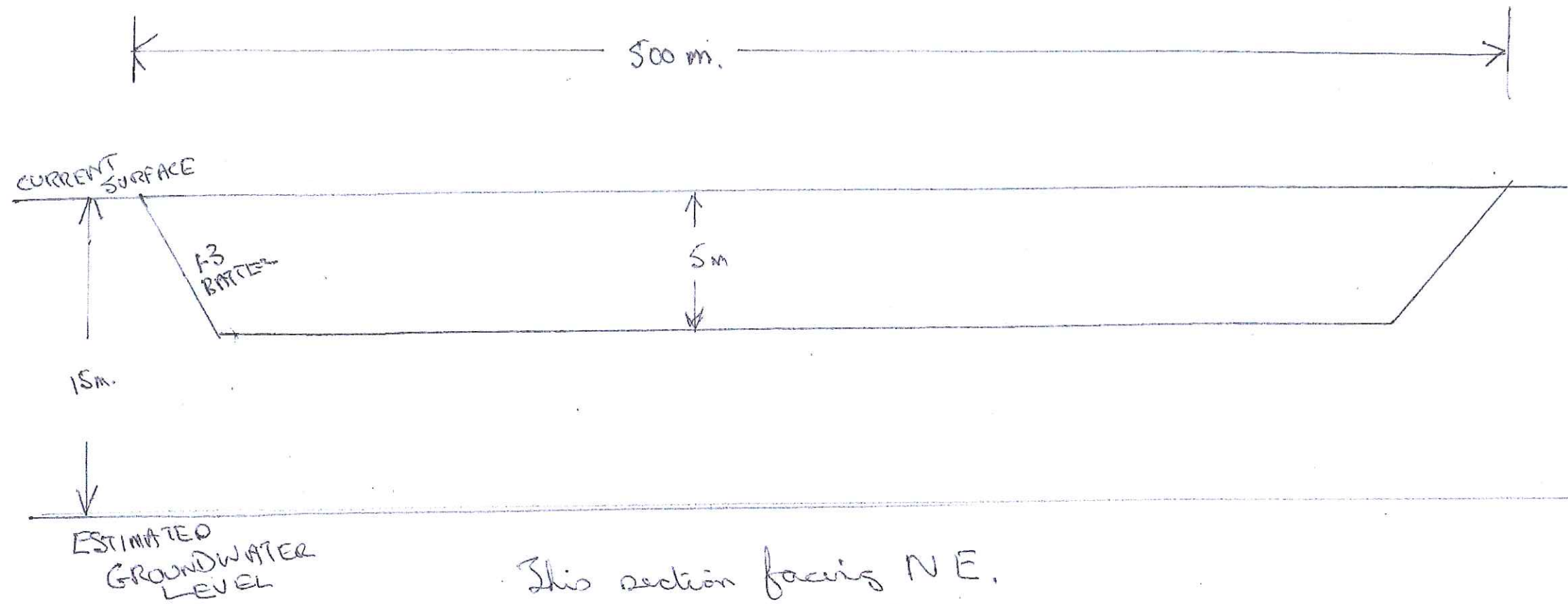
6.3 Proposed Final Landform



6.4 Cross Sections



CROSS SECTION NE-SW section.
FINAL LANDFORM

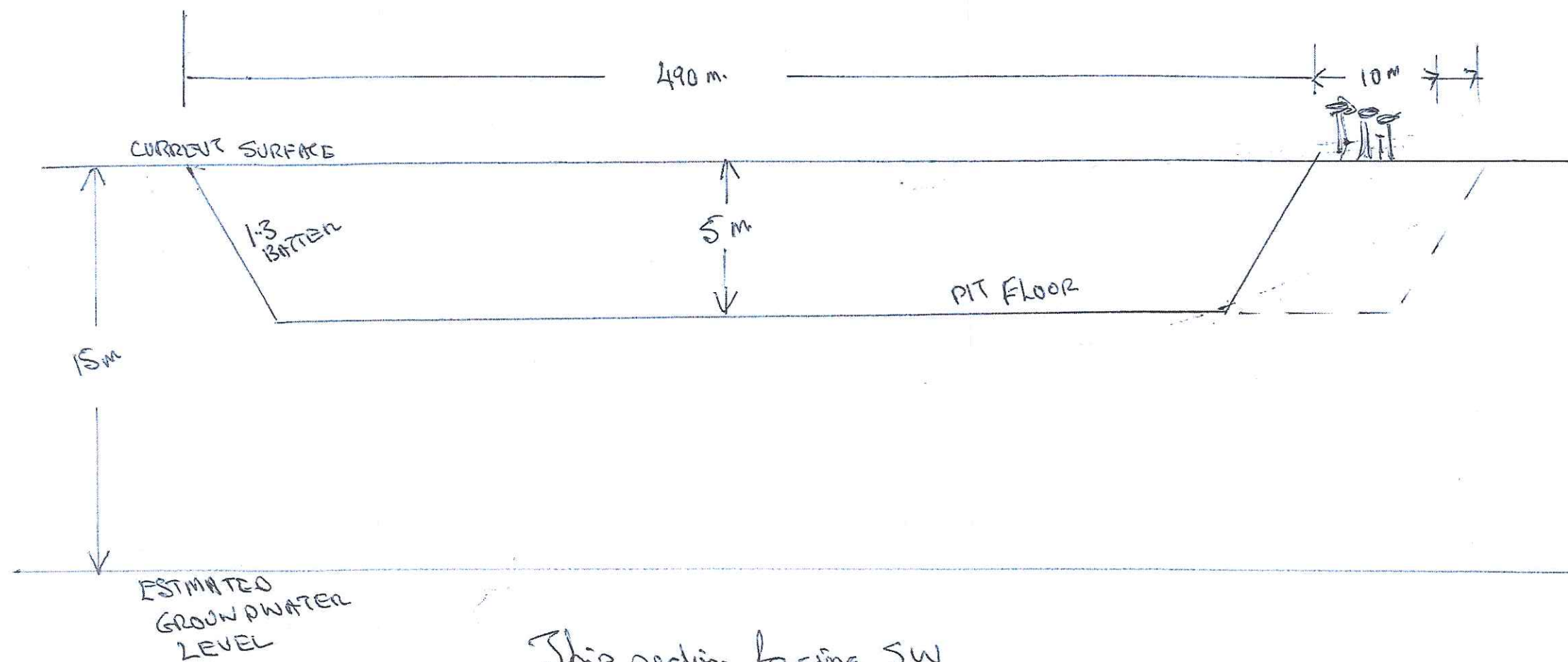


This section facing NE.
see separate diagram for facing SW.

PTO.

CROSS SECTION NW-SE section.
FINAL LANDFORM

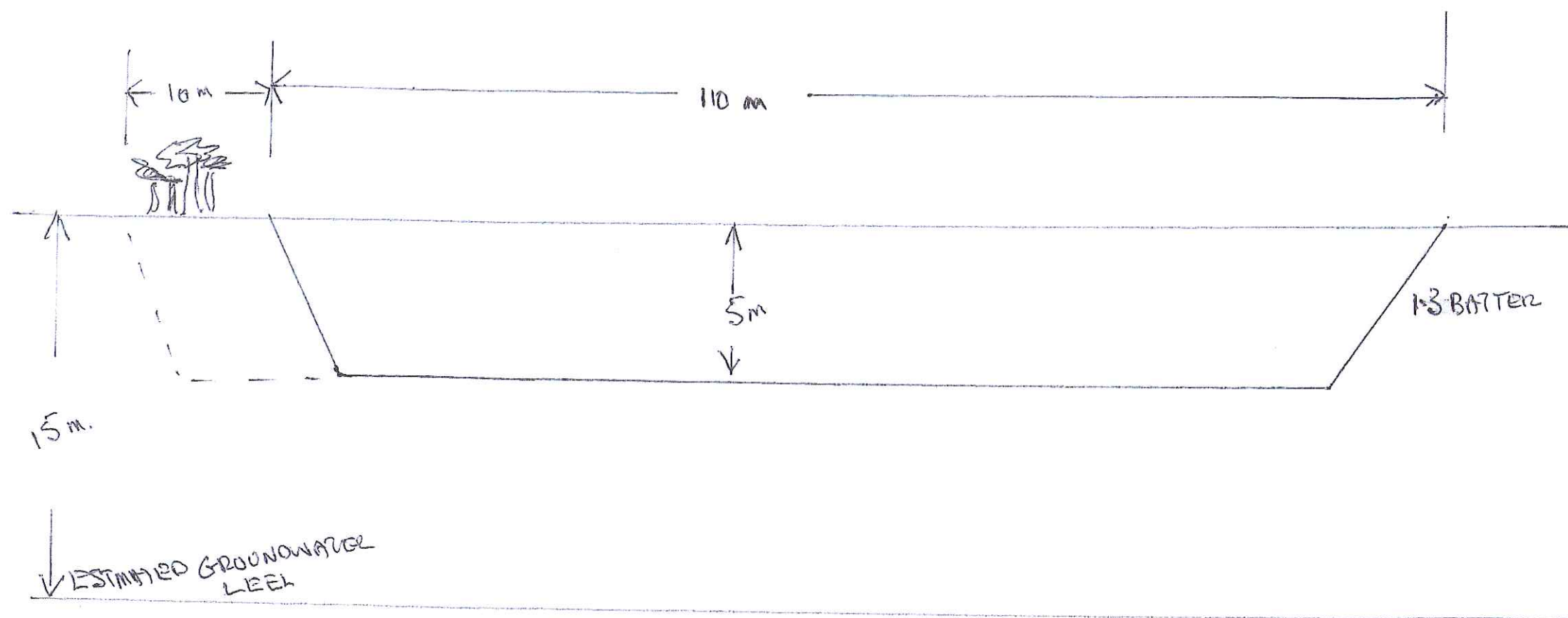
SW.



This section facing SW
showing 4 trees left in West corner.

PTO

CROSS SECTION NW-SE section,
FINAL LANDFORM



This section facing NW showing 4 trees left in west corner.

PTO.

Section 7: Tenement Holder Declaration

This declaration must be signed by all tenement holders.

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We

I

have taken reasonable steps to review the information to ensure its accuracy and all statements made and information given in this application is true and correct.

Signature:

Monty J. Collins

Print name:

Montague Thomas Collins

Date:

19-6-15

Position:

Tenement Holder

