Northern Star Resources Limited

Jundee Operations

Scope of Works - TSF1 Stage 5 Embankment Raise to Crest RL2566.0m

31 July 2018
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Jundee Operations

Prepared for
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For and on behalf of Coffey

Fanie van der Linde
Tailings Team Leader

Quality information

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</tbody>
</table>
# Table of contents

1. Introduction .................................................................................................................. 1  
   1.1. Contract Drawings ................................................................................................. 2  
   1.2. Code of Practice ...................................................................................................... 2  
   1.3. Site Inspection ......................................................................................................... 2  
   1.4. Safety ....................................................................................................................... 3  
   1.5. Site Location and Description ................................................................................. 3  
2. Description of Work ..................................................................................................... 4  
   2.1. General .................................................................................................................... 4  
   2.2. Mobilisation and Demobilisation ........................................................................... 4  
   2.3. Survey ..................................................................................................................... 5  
   2.4. Construction Tolerances ....................................................................................... 6  
   2.5. Establishment and Clearing Works ....................................................................... 6  
   2.6. Foundation Preparation ......................................................................................... 6  
   2.7. Construction Materials ......................................................................................... 7  
   2.8. Earthworks ............................................................................................................... 7  
   2.9. Placement ................................................................................................------------- 8  
   2.10. Decant ................................................................................................................... 9  
   2.11. Pipework ............................................................................................................... 9  
   2.12. Fencing .................................................................................................................. 9  
   2.13. Completion ........................................................................................................... 9  
3. Construction Sequence ............................................................................................... 10  
4. Inspection and Testing ............................................................................................... 10  
   4.1. Inspection Requirements ....................................................................................... 10  
   4.2. Testing Plans .......................................................................................................... 10  
5. Permits, Licences and Approvals ............................................................................... 11  
6. Principal Clarification ................................................................................................. 12  
   6.1. Communications .................................................................................................... 12  
   6.2. Accommodation ..................................................................................................... 12  
   6.3. Diesel Fuel ............................................................................................................. 12  
   6.4. Flights and Roster .................................................................................................. 12  
   6.5. Materials ............................................................................................................... 12  
   6.6. Water ...................................................................................................................... 13  
   6.7. Survey .................................................................................................................... 13  
   6.8. Soil testing ............................................................................................................. 13  
7. Construction Information ........................................................................................... 13
8. Estimate of Quantities ........................................................................................................... 14
9. Definition of Terms ............................................................................................................... 15

Tables
Table 1 - Compliance Testing Failure Remedial Action................................................................. 11
Table 2 - Required Testing Frequency ........................................................................................ 11

Appendices
Appendix A - Schedule of Quantities
Appendix B - Drawings
1. **Introduction**

This Scope of Work (SOW) covers the construction of the Stage 5 upstream embankment raising of Tailings Storage Facility 1 (TSF1) located at Jundee Gold Mine.

TSF1 is an above-ground facility, and will be raised by nominally 2.0m from the current Stage 4 crest level of RL2564.0m to a new Stage 5 crest level of RL2566.0m. The works will primarily involve bulk earthworks to raise the perimeter embankments using compacted mine waste, which shall likely be sourced from the W6/7 clay stockpile located approximately 1.5 kilometres south west of TSF1. Related works will include decant accessway and decant structure raising. This SOW shall be read in conjunction with the Drawings.

The SOW shall comprise the provision of all material, construction plant, equipment, labour, supervision, tools, services, warehousing if required, and each and every item of expense necessary for the construction, allowing the Principal to undertake acceptance testing, and preparing of "as built" drawings and documents for work shown in the Drawings, Schedules and Specifications forming part of the Contract for the construction raising of the TSF1 Stage 5 perimeter embankments and related works at Jundee Gold Mine.

All works shall be constructed complete and operational, except as specifically excluded and shall include all necessary auxiliary works, accessories and the incorporation of all miscellaneous material, minor parts and other such items, whether or not the items are specified, where it is clearly the intent of the Contract that they should be supplied or where they are obviously required and necessary to complete and commission the work.

The Contractor is reminded that the Jundee Gold Mine is an operational mine. As such it may be necessary for the mine to discharge tailings slurry into TSF2 (adjacent to TSF1) during construction of the perimeter embankment raise and the Principal reserves the right to continue deposition during the construction period of the contract.

The Principal will remove pipe work to allow for construction. Construction shall not commence until pipe work has been removed. The Principal shall agree with the Contractor a construction programme such that pipe work removal and reassembly can be optimised. The Contractor shall not vary from the agreed sequential programme without written consent from the Principal.

The Contractor shall protect all installed infrastructure and equipment, such as pipe work and piezometers, within the construction area. The Principal shall be immediately notified verbally and in writing of any damage to infrastructure and equipment, no matter how minor.
1.1. **Contract Drawings**

The following drawings are included in this document as Appendix B:

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<td>Jundee Gold Operations</td>
<td>754-PERGE217884-01</td>
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<tr>
<td>Tailings Storage Facility 1</td>
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<td>Sections and Details</td>
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1.2. **Code of Practice**

Unless otherwise specified, or shown on the drawings, the Contractor is to provide all materials and carry out all the work in accordance with the latest revisions of the relevant Australian Standard Codes.

All work under this Contract shall be performed strictly in accordance with the following Specifications, Drawings and other documents, which by this reference forms part of this Contract, unless expressly noted otherwise.

- AS1181-1982 Measurement for payment
- AS 1289 Methods of testing soils for engineering purposes
- AS4902-2000 General Conditions of Contract for Design and Construction

The Works shall be carried out to comply with the latest revision of the Drawings, Codes and Standards specified, or where no standards are specified, to Australian Standards, or to the appropriate British or other recognised Standards.

Before making any change in any work under the Contract to comply with any revisions to the relevant codes and standards, the Contractor shall give to the Principal written notice specifying the reason therefor and requesting his direction thereon. The Principal shall decide whether a change is necessary and issue an order accordingly under the provisions of the General Conditions of Contract.

The contractor shall abide by all relevant Acts or Statutes of Parliament, Regulations, By-Laws or Orders relating to the safety of persons and property on or about the site. The works will be performed on a mine site and will be subject to Mines Safety and Inspection Regulations, Part 13.7.

1.3. **Site Inspection**

The Contractor shall inspect the site and must allow for the following factors in their price:

- The nature and requirements of the work to be done.
- All conditions on and adjacent to the site.
- Condition of the tailings beach.
- Access to the site.
- Site facilities.
• The Contractor laydown area.
• Prevailing climatic conditions for the site during the construction period.
• The location and formation of the nominated source of fill materials.
• Access roads, available haul roads, traffic restrictions and the requirement for temporary access ramps.
• The source of water for construction purposes.
• Management of saline water usage (if applicable), hydrocarbon storage (if applicable) and dust suppression to the Principal’s requirements.
• Borrow management, development and restrictions.
• Traffic management issues.
• Material placement requirements.
• Compliance and material testing requirements.
• The works to be undertaken in a sequential manner.

1.4. Safety

The Contractor shall:

• Complete the works in accordance with Northern Star Resources’ policies, procedures and standards. This includes, but is not limited to, the following:
  ■ Participation in a site based formal construction risk assessment.
  ■ All personnel shall mobilise according to the Northern Star Resources Site Entry Procedure (NSR-OHS-022-PRO).
  ■ Northern Star reserves the right to decline access approval to personnel where there is a failure to provide the required information, and/or where the documentation indicates that the mobilisation poses an unacceptable risk to the company.
  ■ All site personnel shall attend the relevant Northern Star Resources Inductions, including but not limited to the Jundee site induction and any required area specific inductions prior to commencing any work on site.
  ■ Provide personnel who are fit for work, free of alcohol and drugs and are suitably skilled and competent for the tasks they are undertaking.
  ■ Hold daily tool box meetings at the start of each shift.
• Carry out the works in a safe manner.
• Conform to all relevant Acts or Statutes of Parliament, Regulations, By-Laws or Orders relating to the safety of persons and property on or about the site.
• Operators must have competency based records for the equipment being used.

1.5. Site Location and Description

Jundee is located approximately at 50 km north east of the township of Wiluna, in the north-eastern Goldfields of Western Australia.

TSF1 is a paddock type storage facility, with an approximate storage area of 80ha, located immediately north of the process plant.
2. **Description of Work**

The earthworks entail the construction of:

- The perimeter embankment, which will be raised by 2.0m (refer to drawing 754-PERGE217884-01) by the upstream construction method, with construction undertaken on both the existing crest and over the existing tailings beach, using compacted clayey mine waste material sourced from the W6/7 Clay Stockpile located approximately 1.5km’s south west of TSF1.
- The decant accessway, which will be raised along with the perimeter embankment.
- The installation of four (4) concrete decant liner sections.
- The placement of clean rock around the decant structure.

The Scope of Work shall include, but is not necessarily limited to the sections that follow.

### 2.1. **General**

The Contractor shall:

- Carry out all works indicated or implied in the Drawings or in the Scope of Work.
- Supply all labour, plant and materials (except those indicated as being supplied by the Principal) necessary for completion of the works.
- Maintain all works as required by the Contract documents and for the period stated therein.
- Work with other contractors who may be active in the TSF area and with Northern Star Resource's operational personnel who are responsible for the day to day operation of the TSF.

All construction shall be to the minimum lines and grades shown on the drawings or as required by the Principal as work progresses.

During the progress of the works, the Principal may find it necessary to revise the lines, levels and grades of any part of the works because of the conditions revealed by the works.

The Contractor shall accept reasonable delays due to inspection and checking of any part of the works to determine grades and levels.

### 2.2. **Mobilisation and Demobilisation**

The Contractor is responsible for mobilisation to site and demobilisation from site of all items required to perform the works. The mobilisation price shall include allowances for:

- Preparation of all safety processes, risk analyses and compliance with the Principal's minimum contractor standards;
- All transport to site of construction plant, small tools, consumable products and other temporary materials;
- All crating, packing and loading of materials, plant, etc.;
- All un-crating and unpacking, on-site establishment and commissioning of all materials, plant, etc.;
- All travel costs, wages and salaries of its workforce approved by the Principal;
- All costs associated with site inductions for its personnel; and
TSF1 Stage 5 Embankment Raise - Scope of Works

- Any applicable overheads.

Mobilisation shall not be deemed complete until the Contractor's nominated workforce, approved by the Principal's Representative, has attended a site induction. Site induction is approximately [one (1) day] duration, and is valid for [six (6) months]. A process plant induction of approximately two (2) to three (3) hours should also be conducted.

The Contractor's demobilisation price shall include allowances for:

- All dismantling, crating, packing, and transporting from site of construction plant, small tools, consumable products and other temporary materials;
- All travel costs, wages and salaries of personnel from site;
- Restoration of all work sites and lay-down areas; and
- Any applicable overheads.

During mobilisation and demobilisation, the Contractor shall not assume that the Principal will provide warehousing or cranage for the unloading or loading of equipment. All associated costs for such activities shall be backcharged to the Contractor unless otherwise agreed.

2.3. Survey

The Principal will supply survey services including:

- Supply of survey datums / bench marks.

The Contractor will supply survey services, by means of an independent surveyor as Subcontractor, including:

- Initial (offset) pegging of the embankment toes.
- Initial pickup of the embankment foundations (pre-construction survey).
- Estimation of earthworks placed.
- As built survey of the completed works.

The Contractor shall:

- Be responsible for the protection of all permanent and temporary beacons or bench marks.
- Setting out and construction of the works from the initial pegging provided. That is, re-pegging of embankment batters will be by the Contractor.
- Ensure initial and/or final surveys are undertaken by the sub-contractor prior to the removal or placement of any material, especially where such action will destroy or cover the surface just surveyed. All survey checks or quantity measurements must be supplied to the Principal's Representative. Suitable time must be given to the Principal's Representative to allow such calculations to be checked and approved prior to the works being covered or removed.

The Principal may undertake his own survey of any item, either in conjunction with the Contractor, or separately. The Contractor and Principal's Representative shall agree on the results of measurement surveys that are carried out prior to any works being covered up or within seven (7) days of a survey being undertaken. Should agreement not be reached, the difference shall be documented such that the matter can be later decided without disruption to the Contractor's programme.
The Contractor’s attention is drawn to the possibility of low shear strength materials being encountered on the tailings beach along the decant accessway. No payment shall be made for loss of materials into the tailings.

2.4. Construction Tolerances

The embankments shall be constructed to the lines, grades, dimensions and details shown on the Drawings. The tailings beach shall be surveyed prior to the placement of any fill materials. Finished work shall comply with the following tolerances:

The maximum permissible horizontal deviation from the finished lines shall be -0m to +0.5m.

Vertical deviation shall be -0m to +0.2m, provided no abrupt changes in slope or level are present on any finished surface. Payment shall however be to the minimum requirements (ie excluding tolerances).

Measurement for payment of all embankment fill material shall be made for the compacted material, measured in place and only to the lines and grades required. The Principal may inspect or check any setting out or measurements at any time and the Contractor shall allow for delays while any works are checked.

At the completion of the works the Contractor will supply detailed as-built details, including a hard copy plan layout and survey information in electronic format (.dxf) as well a concise summary of item volumes.

2.5. Establishment and Clearing Works

The Contractor shall, as appropriate:

- Submit details of the proposed access road(s), haul road(s) and or ramp(s) to the Principal for approval prior to the commencement of construction.

- Construct only approved access road(s), haul road(s) and or ramp(s), as appropriate, between the designated borrow area or waste rock storage facility and TSF1, as appropriate, to enable the fill materials to be recovered.

- Clear the agreed routes of all haul roads of all vegetation standing and fallen. Push this vegetation into heaps as approved by the Principal's Representative.

- Form up, lay base course as is necessary and do all things necessary to form and maintain haul roads linking the borrow areas and material stockpiles to the site and other haul roads necessary for the works and which are to be approved by the Principal's Representative.

- Keep all haul roads sprayed and wetted to minimise the generation of airborne dust during the course of road construction and usage.

2.6. Foundation Preparation

The Contractor shall, as appropriate:

- Inspect the embankment crest for any cracks, erosion or gullying. Prepare any areas by removing any abrupt grade changes to provide a regular surface for fill placement. Survey or peg the area so it can be relocated if foundation preparation covers the area with loose material, so it can be removed at the contractor’s expense.
- Remove unsuitable materials such as spilled tailings, bull dust and vegetation which can be disposed of within the tailings storage area, provided it is placed outside the embankment footprint area (minimum 5m offset) and does not obstruct future tailings deposition.

- All embankment crests affected by embankment raising shall be cleared of all gravel and wearing course materials and stockpile for reused if possible.

- Remove earthfill forming humps, currently preventing light vehicle access on perimeter embankment crest (one is located at decant accessway) or other areas where loose materials are evident.

- The exposed surface (crest) following gravel stripping will be reviewed and approved by the Principal. The surface shall be watered and then scarified (tyned) and then thoroughly moisture conditioned to within +2% or -2% of its optimum moisture. A 150mm thick first lift shall then be placed and then compacted.

- If temporary access ramps are required for access to the embankment crest work area, permission/agreement is required from the Principal on the location and number of ramps required. Access ramps will straddle the downstream toe drain and the principal will advise if drainage pipework is required. At the completion of the works all material shall be removed from the drain to the satisfaction of the Principal to ensure it is free draining.

- The tailings beach foundation areas shall be jointly reviewed and inspected by the Principal and Contractor to determine if there are any ‘soft or weak’ areas that may require further assessment. Any such areas shall be jointly agreed and notated in writing and the extent pegged. Tailings that have no desiccation cracking could be considered as soft. If the tailings beach cannot support foot traffic it is considered too wet to commence construction and no attempt shall be made to commence construction in that area due to the potential of developing a mud wave.

- For the purposes of this contract, there is no technical definition of soft tailings and this shall be assessed based on the discretion of the experienced earthworks representatives on site.

2.7. Construction Materials

The Contractor shall:

- Inspect the construction borrow pit or waste stockpile with the Principal.

- Agree with the Principal the location and number of any new access ramps at the waste stockpile and at the TSF embankment in order to provide access to the work area.

- Inspect the waste stockpile and agree with the Principal on the location and levels of benches to allow the safe winning of construction materials.

- Whilst winning construction materials remove any deleterious materials from the stockpile that may affect either embankment construction or equipment. This will include but not be restricted to oversize rock, tramp steel, cable bolts, wire, and tyres.

2.8. Earthworks

The Contractor shall:

- Prepare a method statement for the construction of the embankments to be submitted to the Principal for approval before work can commence. The method statement shall include details on the proposed method of construction of the embankments, as well as safety measures to be adopted to ensure the Works are carried out with minimal risk to personnel and equipment.

- Raise the perimeter embankment of the tailings storage using clayey mine waste material sourced from designated borrow stockpile. The embankment shall be 8m in width with an inner batter slope at 1 to 2.0 (v to h) and outer batter slope at 1 to 2.75 (v to h).
• All materials shall be stockpiled, transported and placed in such a manner as to minimise segregation.

• Adjust the moisture content of the borrow material, approved for use in the perimeter embankment construction. Moisture condition the material to within the range of -2%, +2% of the optimum moisture content as determined from laboratory test 5.1.1 of AS1289. The borrow material shall be cured to ensure the moisture is thoroughly mixed and evenly spread through all materials proposed for embankment construction. Refer to Table 1 which outlines the assessment of test results and the protocols for accepting a single failed result.

• Initial moisture conditioning and curing is not permitted on the work area (embankments). Minor moisture adjustments are permitted as the work proceeds on the embankment.

• The largest rock size in the embankment shall be 300mm. No oversize rock is to be placed into the embankments.

• Place all fill material to form the perimeter embankment in homogeneous horizontal layers not exceeding 400mm loose lift thickness. Each layer shall be compacted using a vibrating pad-foot roller of minimum mass 12 tonne (static), used in the vibratory mode. Placement should be continuous. If a break in fill placement allows the exposed surface to dry, it should be lightly tynded, watered and compacted prior to fill placement recommencing.

• Each layer shall be compacted to achieve a density ratio greater than 95% of standard maximum dry density, as determined from laboratory test AS 1289.5.1.1. The actual number of passes of the vibratory roller to achieve a density greater than 95% standard compaction (AS 1289.5.1.1) shall be determined on site using roller trials, under no circumstances will the number of passes be less than six (6).

• Material considered suitable for embankment construction shall comprise clayey mine waste material having a fines content (material finer than 75 microns) in excess of 15%.

• In the event that ‘wet’ or untrafficable tailings are encountered on the tailings beach embankment footprint area, obtain the Principal’s approval to place, spread and traffic compact the initial earthfill layer. Subsequent layers shall be compacted to achieve a density greater than 95% standard compaction (AS 1289.5.1.1).

• Maintain appropriately sized windrows during construction on both sides of the embankments, to comply with safety and operational considerations.

• Raise the existing vehicular access ramps as required and agreed with the Principal.

• The crests of the completed external embankments shall be graded to the inside of the TSF with a 2% cross fall. Construction shall proceed with an overall cross fall at all times.

• Construct safety windrows (minimum 400mm height) along the edges of the perimeter embankment and decant access causeway.

• Place a nominal 100mm thick gravel layer on the completed crests.

• Allow for keeping water from the works area during construction by shaping the embankment surface with a cross fall.

• Construct and maintain access haul roads as required and agreed with the Principal. Allow for regular watering to minimise dust generation.

• A water truck(s) must be allocated permanently to the earthworks and be on site during the duration of the Contract for moisture curing and dust suppression purposes.

2.9. Placement

• Before placing fill (into the next lift) the surface of the previously compacted layer shall be scarified to a depth of at least 100mm. If the surface has dried out and/or cracked, it shall be
ripped to at least 100mm below the depth of drying or cracking, then watered and mixed. Fill shall not be placed on a surface on which free water has ponded.

- Mine waste shall be placed in horizontal layers, which are longitudinally and transversely continuous. The layers shall be of uniform loose thickness not greater than 400mm, and shall be rolled in a direction parallel to the longitudinal axis of the embankment.

- If adverse weather conditions are imminent and the Contractor intends to suspend operations, the surface shall be graded to a self shedding profile and sealed with a pad foot roller (pad foot divots to be smoothed with grader). This work shall be deemed to be included in the rate for placement of the mine waste. No allowance for payment will be made for removal of material as a result of failure to follow this practice.

2.10. Decant

Two (2) slotted concrete decant pipes (1.22m in height) are to be installed on each of the two decant structures located on TSF1. Earthworks by means of traffic compacted mine waste will be required to construct the causeway to a crest level of RL2566.0m. Suitable filter rock fill as directed by the Principal will be sourced for placement around the decant structure. A minimum of 5m radius of clean fines free rockfill is required around the decant structure.

2.11. Pipework

The Contractor shall be aware that:

- The Principal will disconnect and remove pipework in advance of construction and will replace pipework when that job lot has been completed.

- The Contractor shall avoid damaging the tailings distribution pipework and all pipework. Any pipework damaged by the Contractor shall be replaced at no cost to the Principal.

2.12. Fencing

The full length of the perimeter of the TSF1 is surrounded by fencing. Prior to the commencement of any work the Contractor shall inspect the fencing in the company of the Principal and identify any damaged areas, a photographic record of these areas shall be made.

It will be the Contractor’s responsibility to repair, at their cost, any fencing damaged as part of their activities. If fencing, gates or strainer posts are required to be removed, the Contractor shall identify what sections require removal and shall obtain written approval, from the Principal, prior to any fencing infrastructure being removed.

2.13. Completion

The Contractor shall:

- Clean up all rubbish, remove all plant and supply materials, trim all banks neatly, spread all excavated material not specified to be removed from the site and leave the site in a clean and tidy condition.

- Carry out an as constructed survey of the completed works.

- Repair and make good any damaged infrastructure such as fencing, monitoring bores.
3. Construction Sequence

The Contractor shall prepare a detailed schedule for the construction of the lift. The schedule and sequence of works shall be provided to the Principal for approval prior to commencing works and is to be baselined once approved. The baseline schedule is to be provide to the Principal in both native and pdf format. The Contractor shall endeavour to complete the embankment raising in the sequence agreed.

The schedule shall be updated on a weekly basis and submitted to the Principal. The weekly update is to highlight any slippage and provide commentary on how the slippage will be rectified. Any change to the sequence or logic must be requested to the Principal in writing for approval. The request is to include the proposed impact on critical path, resourcing and any deviation to design.

4. Inspection and Testing

4.1. Inspection Requirements

The Principal will be entitled, at all times to inspect, examine and test the materials and workmanship provided under the Contract. Such inspection, examination or testing, if made, shall not release the Contractor from any obligation under the Contract. The Principal will engage a NATA registered soils laboratory to provide a full time and suitably qualified soils technician to undertake quality assurance testing of placed material to ensure design parameters are being achieved, for the duration of the works.

The Contractor shall cooperate with and provide full opportunity to the soil technician, or any other such delegate of the Principal, to routinely inspect, examine and test the materials and monitor the progress of the works relative to the construction program.

All pertinent information to enable the Principal to determine the adequacy of the advance planning for material procurement, machine and manpower resources to meet the construction program shall be made freely available to the Principal.

These requirements shall be incorporated in any orders the Contractor may place with Subcontractors.

4.2. Testing Plans

A testing programme will be developed by the Principal, in consultation and agreement with the soil technician and Contractor, and shall include details of procedures, standards and acceptance levels and conform to the requirements of the specifications forming part of the Contract documentation.

Compliance tests shall be carried out by the soil technician to satisfy the Principal’s Representative that the criteria on moisture content, compaction and material classification are met.

Compliance testing of compaction and moisture content shall be at the rate of not less than 1 test per layer per material type per 2,500m² (or 1 test per 750m³ ‘evenly’ spread through the fill, as determined by the Principal’s Representative). As the works proceed, the construction material properties and compaction test pass rate shall be periodically reviewed by the Principal’s Representative and the test frequency potentially relaxed, at the Principal’s Representative’s discretion, to a minimum of 1 test per 1,000m³.
Particle size distribution and Atterberg Limit tests shall be at the rate of not less than 1 test per 5,000m³.

The Contractor shall, at their own expense, rework or replace materials which do not meet the requirements of the Specification.

Table 1 - Compliance Testing Failure Remedial Action

<table>
<thead>
<tr>
<th>Category</th>
<th>Hiil Density Ratio Result</th>
<th>Moisture Result</th>
<th>Remedial Action</th>
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<tr>
<td>A</td>
<td>Fail by less than 1%</td>
<td>Pass</td>
<td>Re-roll (No. of passes to be specified by the Principal’s Representative, max. 3)</td>
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<td>B</td>
<td>Fail by 1% or more</td>
<td>Pass, but not more than 1.0% wet of OMC</td>
<td>Rip, re-water, re-roll and re-test</td>
</tr>
<tr>
<td>C</td>
<td>Fail by 1% or more</td>
<td>Pass, but 1.0% or more wet of OMC</td>
<td>Rip, re-roll and re-test</td>
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<tr>
<td>D</td>
<td>Pass</td>
<td>Fail, but no more than 2.0% dry of OMC</td>
<td>Rip, water, re-roll and re-test</td>
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<tr>
<td>E</td>
<td>Fail</td>
<td>Fail</td>
<td>Remove fill, replace and re-test</td>
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Note: Requirements relate to a single result within a ‘lot’, not the average of the results for a ‘lot’

Table 2 - Required Testing Frequency

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<thead>
<tr>
<th>Test Description</th>
<th>Test Locations a.</th>
<th>Minimum Testing Frequency Clayey Mine Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture Content</td>
<td>E</td>
<td>1 per layer per 2500m²</td>
</tr>
<tr>
<td>Atterberg Limits</td>
<td>E</td>
<td>Min 1 per 5000m³</td>
</tr>
<tr>
<td>Particle Size Distribution</td>
<td>E</td>
<td>Min 1 per 5000m³</td>
</tr>
<tr>
<td>Density Moisture Relation (Standard or Modified compaction)</td>
<td>E</td>
<td>1 per 3 FDs</td>
</tr>
<tr>
<td>Field Dry Density (FD)</td>
<td>E</td>
<td>1 per layer per 2500m²</td>
</tr>
</tbody>
</table>

Note: a. Location of tests on Embankment

5. Permits, Licences and Approvals

Further to the General Conditions of Contract, the Principal will obtain Regulator acknowledgement to undertake the proposed works. The proposed works are within the original design criteria. Construction works should not commence until the Principal has received written acknowledgement from relevant government agencies.

The Contractor will be responsible for providing all necessary health and safety information and records for supplies and equipment brought to site such as data sheets, emergency procedures, safety plans and operational plans as well as providing competency based records and police clearances for all site personnel. This includes recent drug screening test results.
6. **Principal Clarification**

Any services or materials not specifically identified as being provided by the Principal shall be provided by the Contractor.

6.1. **Communications**

The Contractor shall allow for the provision of programmable two way digital VHF radios in all machinery, light vehicles and on ground personnel (hand held radios), telephone and email facilities. Mobile coverage is available at Jundee (GSM, Next G). Two way radios are to be programmed with Jundee channels.

6.2. **Accommodation**

Accommodation and messing for the Contractor will be provided by the Principal. Due to limited room availability at the Jundee Accommodation Village, Contractor personnel may be accommodated in a motelling type arrangement where personal items must be vacated from the room prior to leaving site on R&R. Confirmation will be provided prior to mobilisation.

The Contractor shall inspect the condition of the allocated accommodation and messing facilities, and be mindful that some of the accommodation is not ensuited or supplied with televisions. The Contractor shall supply a manning level programme (i.e., a histogram detailing peak manning levels) to the Principal at the time of their tender submission. This manning schedule is to be aligned to the project schedule and updated on a weekly basis and submitted to the Principal.

6.3. **Diesel Fuel**

Diesel fuel for the Contractor will be provided by the Principal at no cost for reasonable usage. The Contractor shall advise what the expected fuel usage figures will be during the construction programme, on a week-by-week basis, and keep usage records for periodic inspection by the Principal.

6.4. **Flights and Roster**

Direct charter flights between Perth to Jundee, and indirect commercial flights between Perth and Wiluna (approximately 50km from Jundee) are available on a limited basis. The Contractor will be advised by the Principal on availability during tendering and prior to Contract award, and make pricing allowances for use of commercial flights as appropriate.

The preferred work roster for Contractor personnel is 2 weeks on, 1 week off, flying to/from site on Wednesday mornings (Skippers Aviation flights 2001 and 2121). Flights and availability may be subject to change at any time.

6.5. **Materials**

The Principal will supply the following from designated sources. Items from the Principal’s store will be supplied during normal store hours.

- Clayey mine waste material for construction of the perimeter embankments and decant access causeway. Depending on material availability and suitability, the Contractor may be required to
supplement the supplied materials, in part or in whole, with materials borrowed from areas as directed by the Principal’s Representative.

- Select mine waste material for use as decant filter rock.
- Mine waste material for capping of the perimeter embankments.
- Gravel or crushed aggregate for sheeting of the embankment crests.
- Slotted concrete pipes, internal riser pipes and spacers for use in the construction of the decant tower.

6.6. Water

Construction water will be made available from nominated standpipes to be supplied by the Principal. The standpipes are for common uses and may be used by others. The Contractor shall ensure their equipment (water trucks) is suitable for safe access to the available standpipes.

6.7. Survey

Principal will provide coordinates and levels of the survey bench marks within the vicinity of the works. The Contractor will set out the works from these survey marks and provide as constructed survey at completion of the works.

6.8. Soil testing

The Principal will engage a NATA registered soils laboratory to provide a full time and suitably qualified soil technician to undertake quality assurance testing of placed material to ensure design parameters are being achieved, for the duration of the works.

The Principal shall supply the necessary facilities for the soil technician to perform the testing in accordance with AS1289 standards, noting that the facilities are not required to be NATA accredited. The facilities shall comprise an adequately covered and ventilated workspace, with access to power and water. All testing equipment and laboratory apparatus shall be supplied by the soil technician.

7. Construction Information

The Contractor shall provide a construction programme and indicate the following milestone dates.

- Contract award
- Notice to proceed
- Initial mobilisation to site
- Full mobilisation on site
- Milestone dates
- Practical completion date
- Final completion date

The Contractor shall as part of their tender submission clearly outline the following:

- Type, year, make and number of equipment to be mobilised to site
• Manning levels
• The timing for equipment and personnel arrival on site
• Competency based records for personnel
• Sub-contractor or sub hire equipment and organisations
• Insurance certificates and certificates of currency
• Name of nominated supervisor and first aid personnel
• Relevant chemical data sheets
• Equipment licensing or certification
• Planned work roster
• Draft safety management plans
• Draft traffic management plans
• Soil testing and associated traffic management risk assessment and plans

The Contractor shall, after Contract award and prior to mobilisation, submit the following for approval by the Principal:

• A Project Execution Plan which shall include but is not limited to: a site-specific and finalised health, safety and environment (HSE) management plan and traffic management plan (TMP). Particular attention is to be paid to fatigue management within the existing site polices and standards. If any deviation is expected a written request must be made by the Contractor for assessment and approval by the Principal.
• An execution methodology supported by the approved project schedule outlining how the construction activities will be undertaken and the works completed.

8. Estimate of Quantities

A preliminary estimate of quantities has been provided to allow material requirements to be gauged for Construction. The figures have not been calculated by a Quantity Surveyor and are provided for convenience only. The Schedule of Quantities is included in this document as Appendix A.
9. **Definition of Terms**

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contract</td>
<td>The agreement between the Principal and the Contractor.</td>
</tr>
<tr>
<td>Contractor</td>
<td>Person bound to execute the work under the Contract.</td>
</tr>
<tr>
<td>Principal's Representative</td>
<td>Person appointed by the Principal in writing to represent the Principal.</td>
</tr>
<tr>
<td>Person</td>
<td>Includes a firm or body corporate or unincorporated or an individual.</td>
</tr>
<tr>
<td>Principal</td>
<td>Northern Star Resources Ltd.</td>
</tr>
<tr>
<td>Principal Supplied Materials</td>
<td>Materials supplied by the Principal.</td>
</tr>
<tr>
<td>Scope of Works</td>
<td>This document.</td>
</tr>
<tr>
<td>Site</td>
<td>The lands and other places to be made available and any other lands and places made available to the Contractor by the Principal for the purpose of the Contract.</td>
</tr>
<tr>
<td>Subcontractor</td>
<td>Secondary person appointed by the Contractor to fulfil part/all of the Contract.</td>
</tr>
<tr>
<td>Superintendent</td>
<td>Person appointed by the Principal as the Superintendent or other person from time to time appointed in writing by the Principal to be the Superintendent and notified as such in writing to the Contractor by the Principal.</td>
</tr>
<tr>
<td>Works</td>
<td>The whole of the work to be executed in accordance with the Contract, including variations provided for by the Contract, which by the Contract is to be handed over to the Principal.</td>
</tr>
</tbody>
</table>
Appendix A - Schedule of Quantities
Appendix B - Drawings