

TRANSPORT MANAGEMENT PLAN

Version	Date	Description	Approved	Position
V1		Plan		

Transport Management Plan

CONTENTS

1. INTENT.....	3
2. SCOPE.....	3
3. LEGISLATION	3
4. ROLES AND RESPONSIBILITIES.....	3
4.1 Project Manager	3
4.2 Mine Manager.....	3
4.3 Employee/Contractor/ Visitor Responsibilities.....	4
5. Resource consent conditions	4
6. TRANSPORT management PLAN	10
6.1 Key Hazards/ Considerations	12
6.2 Heavy Vehicle Movements and Operating Hours	12
6.3 Speed & Route	12
6.4 Noise	13
6.5 Vehicle Interactions	13
6.6 Dust.....	13
6.7 Light pollution	14
6.8 Incidents, accidents and road conditions.....	14
7. DEFINITIONS.....	15

DRAFT

Transport Management Plan

1. INTENT

To provide a consistent, Transport Management Plan for the Westland Mineral Sands Co Ltd (WMS) Mananui Project.

2. SCOPE

This plan applies to all WMS workers, contractors & visitors on the Mananui site and public road access to the site.

3. LEGISLATION

- Health and Safety at Work Act 2015
- Health and Safety at Work (General Risk and Workplace Management) Regulations 2016
- Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016
- Health and Safety at Work (Worker Engagement, Participation and Representation) Regulations 2016
- NZ Road Code for Heavy Vehicles

Refer to WMS-SHMS-REG-001_WHSE Legal Register for complete list of relevant legislation, codes of compliance, codes of practice, Standards and guidelines; ensure legislation is current at time of use

4. ROLES AND RESPONSIBILITIES

All incidents including near miss (may also be termed near hit) vehicle incidents and environmental incidents must be reported using WMS's Incident Report form. This must be completed by the employee, contractor or visitors involved in the incident immediately if practical, but no later than the end of that shift or visit.

A register of incidents will be maintained by WMS and a copy of this register will be made available to Council upon request. Transport will be controlled from a central manned control room. All trucks have the company's phone number displayed and any complaint to truck control room, will be forwarded to the mine project manager.

This plan shall be updated by WMS should a trend in road safety incidents be identified that indicates the existing measures are insufficient to adequately address road safety issues being reported. The update will include practicable measures to mitigate the identified issues, to the satisfaction of Council.

4.1 Project Manager

- The Site Project Manager is responsible for the implementation and enforcement of this procedure.
- The Project Manager must authorise any personnel to perform any duties of this procedure and ensure that they are competent to complete their duties.
- Approve any 'permits to work' prior to starting tasks if required (or delegate authority)
- The Site Project Manager is to liaise as soon as practicable with the Opus/waka kotahi road engineers if road maintenance is identified as being required on the highway.

4.2 Mine Manager

- Ensure that all personnel that enter the mining operation areas comply with this plan.
- Ensure that all pre-start inspections and checklists are being completed.
- Ensure all personnel operating any vehicles have been deemed competent, hold a current and appropriate permit or are under the escort of a person who holds a current and appropriate permit.

Transport Management Plan

- Ensure any changes to this plan are communicated to all relevant personnel when they occur
- Undertake random, blanket and 'just cause' Alcohol and/ or drug tests as required.

4.3 Employee/Contractor/ Visitor Responsibilities

- All site workers shall ensure their own fitness for work at the commencement of every shift.
- To only operate a vehicle for which they have been trained, deemed competent and authorised in writing by the Mine Manager to operate that equipment.
- To undertake any site and driver specific inductions prior to operating equipment (except visitors to site, who will be inducted at time of visit)
- Only operate plant and equipment as per the procedure and rules including pre-start inspections on the vehicle being operated.
- To only operate a vehicle with appropriate area permits.
- To only operate vehicles that are safe and deemed fit for purposes through inspections and planned maintenance.
- To ensure all passengers are wearing their seat belts prior to operation of any vehicle.
- Notify their supervisor or visitor escort of any hazards or incidents as soon as practicable via the appropriate reporting method.
- Visitors must not operate any vehicle on site (beyond visitor car park) at any time.

5. RESOURCE CONSENT CONDITIONS

Resource consent conditions relevant to the Transport Management Plan are:

1.0 General	
1.1	The Consent Holder must carry out the mineral sand mining activities in general accordance with the application dated October 2023 and the Site Plan enclosed as Schedule 1.
1.2	The Consent Holder must ensure all key staff and contractors are made aware of, and have access to, the resource consent conditions prior to the commencement of mining. A copy of these documents must also be readily available on-site.
1.3	All actual and reasonable costs incurred by the Consent Authorities in monitoring, enforcement and administration of this resource consent must be met by the Consent Holder.
1.4	<p>Within 2 months of implementation of these consents, the Consent Holder must appoint an Accountable Person to be responsible for compliance of all conditions of these consents. The Accountable Person must be based on-site for a minimum of 4 hours per day, for two days per week. The Accountable Person must:</p> <ul style="list-style-type: none"> a) Review, submit and ensure compliance with all management plans listed in the conditions of these consents; b) Ensure there is another person who can provide cover in the event they are sick or unavailable, and to provide for succession ('Nominated Cover Person'); c) Be the point of contact between the Consent Holder, the Consent Authorities, the

Transport Management Plan

	Community Liaison Group (required by Condition 11.0) and the community generally, and pro-actively engage with these parties as required under these consents; d) Deliver on reporting requirements required by the conditions of these consents.
1.5	The Consent Authorities must be advised of the name and contact details of the Accountable Person and the Nominated Cover Person. In the event that the Accountable Person or Nominated Cover Person change, the Consent Authorities must be notified.
1.6	A sign must be erected at the property boundary adjacent to the access road, which provides the name and contact details of the Accountable Person and Nominated Cover Person required to be appointed under Condition 1.4.

5.0 Annual Work Programme	
5.1	<p>At least 20 working days prior to mining activities commencing and thereafter on or before the anniversary date of the commencement of these consents, the Consent Holder must submit a programme of work (“Annual Work Programme”) for certification by the Consent Authorities detailing:</p> <ul style="list-style-type: none"> ○ The proposed works to be carried out over the next 12 months including: <ul style="list-style-type: none"> ▪ Equipment to be used; ▪ Areas of topsoil and overburden stripping and stockpile locations; ▪ New areas of land disturbance that will be mined; ▪ Access tracks; ▪ Drill/prospecting sites and other tracks to be constructed; and ▪ Any other site works within the consent area. ○ The approximate open volume of the working pit at the start of the year including depth of excavations and the area of the working pit. ○ The progressive rehabilitation works to be carried out over the next 12 months including: <ul style="list-style-type: none"> ▪ Areas of unrestored land (i.e. all land not finally topsoiled and revegetated) at the beginning of the new year; ▪ The area that will be fully rehabilitated during the forthcoming year; ▪ Maximum slope angles, bench heights and widths of recontoured ground, if applicable; and ▪ Rehabilitation method and technique including replacement of topsoil and vegetation cover. ○ Description of measures to prevent adverse effects on natural waterbodies, including drainage works within the consent area, and the collection and treatment of site run-off before discharge to land. ○ Measures that must be adopted to ensure soil conservation and slope stability are controlled;

Transport Management Plan

	<ul style="list-style-type: none"> ○ A description and analysis of any unexpected adverse effects that have arisen as a result of activities within the last 12 months, and the steps taken to address the adverse effect.
5.2	<p>The following plans, reports and results of monitoring must also be submitted as part of the Annual Work Programme:</p> <ul style="list-style-type: none"> ○ A detailed plan or aerial photograph showing: <ul style="list-style-type: none"> ▪ The open working area at the start of the year; ▪ Proposed mine path for the forthcoming year including haul and access roads; ▪ Rehabilitated ground behind the open pit area; ▪ Location of existing and intended topsoil or overburden dumps and their dimensions; ▪ Location of natural waterbodies; ▪ Location of present and intended drainage works and settling ponds; and ▪ Any other site works within the consent area. ○ An Erosion and Sediment Control Plan in accordance with condition 23.0. ○ Results of water quality, flow and water level monitoring from the previous 12 months in the form of an annual monitoring report required by condition 26.7. ○ Any proposed updates to Management Plans submitted in accordance with the respective conditions of consent. ○ Results of dust monitoring from the previous 12 months required by Condition 28.3 for the previous 12 months.
5.3	<p>The Consent Holder must provide the Consent Authorities with any further information, which the Consent Authorities may reasonably request after considering any Annual Work Programme. This information must be provided in a timely manner as required by the Consent Authorities.</p>

6.0 Management Plans	
6.1	<p>The Consent Holder shall operate the site in accordance with the following management plans:</p> <ul style="list-style-type: none"> ● Noise Management Plan ● Fauna Management Plan ● Dust Management Plan

Transport Management Plan

	<ul style="list-style-type: none"> • Transport Management Plan • Water Management, Monitoring and Mitigation Plan • Erosion & Sediment Control Plan <p>(collectively Management Plans)</p>
6.2	<p>All Management Plans must include (where relevant):</p> <ol style="list-style-type: none"> a) The purpose of the plan; b) Reference to the relevant conditions; c) How each of the relevant conditions have been given effect to; d) Identification of procedures for implementing the relevant plan; e) Audit check lists; f) Monitoring programmes and/or protocols; g) Feedback mechanisms for adaptive management, including circumstances in which a material change to the management plan would be required; h) An organisational chart showing staff and contractor positions and responsibilities for plan implementation; i) Relevant training and induction procedures and schedules; j) Reporting procedures and format for providing the results of any monitoring or surveying required by the Management Plans.
6.3	<p>Site activities must not commence until the management plans required in condition 6.1 have been certified by the Consent Authorities</p>
6.4	<p>If the Consent Holder has not received a response from the Consent Authorities within one month of the date of submission of the management plans under Condition 6.1, the management plans must be deemed certified. If the response from the Consent Authorities is that they are not able to certify the management plans, the Consent Holder must consider any reasons and recommendations provided by the Consent Authorities, amend the management plans accordingly, and resubmit the management plans to the Consent Authorities</p>
6.5	<p>The Consent Holder may amend the management plans at any time to take into account:</p> <ol style="list-style-type: none"> a) Any positive measure/s to ensure the stated objectives of the management plans are achieved; b) Any required actions identified as a result of monitoring under these consents; and c) Any changes required to further reduce the potential for adverse effects as a result of actions identified in the Annual Work Programme. <p>Where management plans require the input of an appropriately qualified person, any amendments to those management plans must also be undertaken by an appropriately qualified person.</p> <p><i>Advice Note: Some management plans have ongoing annual review requirements which are required in order to avoid, remedy or mitigate effects. These specific review requirements are stipulated in the relevant conditions of this consent.</i></p>
6.6	<p>Any amended Plans must be provided to the Consent Authorities within 20 working days of their review, for certification in accordance with Condition 6.1.</p>
6.7	<p>The Plans must not be amended in a way that contravenes the matters set out in the conditions for the respective Plans.</p>

Transport Management Plan

6.8	If the Consent Holder has not received a response from the Consent Authorities within one month of the date of submission of any reviewed management plan, the management plan must be deemed certified. If the response from the Consent Authorities is that they are not able to certify the management plan, the Consent Holder must consider any reasons and recommendations provided by the Consent Authorities, amend the management plan accordingly, and resubmit the management plan to the Consent Authorities.
6.9	A copy of the latest version of the Plans must be kept on site at all times and all key personnel must be made aware of the contents of each Plan and their responsibilities under each Plan.
6.10	Subject to any other conditions of these consents, all activities must be undertaken in accordance with the latest version of the Plans.

10.0 Complaints and Non-Compliance	
10.1	Upon receipt of any complaint, the Consent Holder must promptly investigate the complaint, take action to remedy or mitigate the cause of the complaint and inform the Consent Authorities within 48 hours of the report, of the details of the complaint and the action taken.
10.2	The Consent Holder must maintain a complaints register for all aspects of operations in relation to these consents. The register must be available to the Consent Authorities at all times and must: <ul style="list-style-type: none"> a) detail the date, time and type of complaint; b) cause of the complaint; and c) the action taken in response to the complaint.
10.3	Complaints which may infer non-compliance with the conditions of these consents, must be referred to the Consent Authorities within 48 hours of the report.
10.4	In the event of any breach of compliance of the conditions of these consents, within 5 working days of becoming aware of any breach the Consent Holder must provide written notification to the relevant Consent Authorities which explains the cause of the breach, and if the cause was within the control of the Consent Holder, steps which were taken to remedy the breach and steps which must be taken to prevent any further occurrence of the breach. <i>Advice Note: This consent condition does not replace the compliance and enforcement responsibilities of the Consent Authorities.</i>

14.0 Site Access
At least 10 working days prior to the trucking of Heavy Mineral Concentrate from the site, the vehicle crossing for access to the site from State Highway 6 shall be formed in accordance with the vehicle crossing layout plans submitted by the consent holder and

Transport Management Plan

labelled as “Project Mananui Access Arrangement” dated October 2023 and attached as Schedule 2.

Prior to vehicle crossing formation works occurring, the consent holder shall submit to the Westland District Council a copy of the Waka Kotahi NZ Transport Agency’s approval to undertake works on the State Highway (as detailed in advice notes a - c).

Advice Notes:

a) It is a requirement of the Government Roading Powers Act 1989 that any person wanting to carry out works on a state highway first gain the approval of Waka Kotahi NZ Transport Agency for the works and that a Corridor Access Request (CAR) is applied for and subsequently a Work Access Permit issued before any works commence. A CAR will be required for the vehicle crossing from the subject site to State Highway 6.

b) Detailed design approval will be provided through the CAR process.

c) A CAR is made online via www.beforeudig.co.nz and/or www.submitica.co.nz. The CAR needs to be submitted at least 15 working days before the planned start of works. A copy should also be sent to the Waka Kotahi NZ Transport Agency environmental planning team at environmentalplanning@nzta.govt.nz.

The Corridor Access Request will need to include:

- i. The detailed design for the vehicle crossing. In developing the detailed design, the consent holder will need to consult with the Waka Kotahi appointed state highway maintenance contractor for the West Coast (Fulton Hogan) and a Waka Kotahi Safety Engineer (Jodie Enright).*
- ii. A Construction Traffic Management Plan that has attained approval from the Waka Kotahi appointed state highway maintenance contractor for the West Coast (Fulton Hogan)*
- iii. A design safety audit which has been prepared, processed and approved in accordance with Waka Kotahi guidelines for Road Safety Audit Procedures for Projects (<https://www.nzta.govt.nz/assets/resources/road-safety-audit-procedures/docs/road-safetyaudit-procedures-tfm9.pdf>)*

15.0 Transport

Truck movements associated with removal of heavy mineral concentrate to and from the site are limited to 70 per day and 6 per hour (both averaged over a one week period).

Advice Note: For the purposes of the Transport conditions, a movement is defined as being a movement either to or from the site. A truck and trailer unit entering and leaving the site is therefore 2 movements.

The consent holder must carry out trucking operations to and from the site in accordance with the Transport Management Plan prepared by Westland Mineral Sands Co Ltd.

Transport Management Plan

Advice Note: All Management Plans are required to adhere to the requirements of Condition 6.0.

6. TRANSPORT MANAGEMENT PLAN

A Transport Management Plan is in place for activities involving vehicles travelling to/ from the site for the purpose of Heavy Mineral Concentrate (HMC) transport, site activities (including mining, maintenance, & administration), delivery of goods & equipment, employees, contractors and planned visitors accessing the site. It does not include any unplanned or unsolicited callers who are not familiar with this plan.

It is expected that a transport contractor will handle most of the freight to site with personnel who are familiar with the requirements of this plan.

The plan sets out the procedures for all traffic management except for on-site Mining and Processing activities which will be covered in the PHMP- Roads and Other Vehicle Operating Areas.

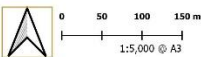
DRAFT

Transport Management Plan






Mananui Site Plan
Site Access Point
Produced for: WMSL
by Luke McNeish (TPRL) on 03/05/2022

This map/plan has been produced by WMS Ltd for the purpose of providing information as part of the agreed upon scope and services with the client. This graphic is solely for the client's use. Any use or reliance on any information within by a third party without prior approval by the client is at their own risk. At the time of production, all information is assumed accurate. WMS Ltd holds no accountability for any liability or action arising from any inoperative or inaccurate information within this map/plan.



Projection: WGS84 / NZTM2010
Background Imagery: ESRI Satellite
Data Sources: LINZ, Client and/or TPRL Data

Legend:

-  Plant Area
-  Access Route
-  12m Bund

Transport Management Plan

The plan objectives are to:

- o Ensure the safe and efficient operation of the road transport network around the Mananui area;
- o Avoid, remedy or mitigate potential transport related effects on residents and visitors to the Mananui area; and

These objectives are achieved through management of the Key Hazards and Considerations (below).

6.1 Key Hazards/ Considerations

- Speed
- Noise
- Vehicle Interactions (with other vehicles, cyclists, and pedestrians)
- Dust
- Light Pollution
- Incident and accident reporting, investigations and improvements

6.2 Heavy Vehicle Movements and Operating Hours

There will be a maximum of 70 heavy vehicle movements per day¹ to/from the Mananui site and no more than 6 movements per hour. As outlined by condition 15.1

Heavy vehicles will operate 24 hours a day 7 days per week.

6.3 Speed & Route

The roads covered by this plan, except the mine access road are State Highway and speed limits dictated by roadway signs. WMS will impose extra restrictions for certain vehicles along specific sections of these roads as part of this plan.

Note this plan's speed limit maximums are applicable in both directions except where otherwise specified.

Heavy Vehicles

- State Highway 6 – **90km/h max**

All vehicles

- Mine Site entrance to processing plant area – **25km/h**

Speed limit signs will be installed on the mine site access road.

Route

Heavy vehicles carting HMC will use the State Highway through Hokitika to the Port of Greymouth.

¹ e.g. 35 Arrivals plus 35 departures.

Transport Management Plan

6.4 Noise

Vehicle noise should be kept to a minimum at all times when travelling to/ from the Mananui site.

Travel on any of these roads in any vehicle should follow the following rules:-

- No excessive engine noise, revving or music through open windows; and
- For all heavy vehicles, no engine brakes except in an emergency.

The use of the horn or other audible warning should only be in emergencies.

Reversing alarms are not permitted on any vehicle due to the close proximity of residential properties. Reversing if required should be by means of a spotter. A truck turning loop is provided at the site.

To meet the noise obligations laid out, the road truck and trailers will:

- Be 4-axle trucks towing 4 or 5-axle trailers, fitted with bulk bathtub bodies
- Have airbag suspension (to minimise noise when running empty)
- Have automatic transmissions (to avoid unnecessary revving)
- Not have Jacobs brakes (exhaust brake) fitted.

6.5 Vehicle Interactions

All vehicles associated with the WMS operation shall be fitted with suitable two way radios or be provided with a suitable site frequency handheld radio for temporary use. No Heavy vehicle will be permitted to operate on HMC product haulage or at the mine site unless it is fitted with a working two way radio.

All vehicles should operate with dipped headlights on at all times.

New Zealand Road Codes apply at all times. Drivers should be aware this is an area of extensive tourist activity, and it should be expected to encounter local residents and tourist in cars, campervans, with caravans, cyclists and walkers/ runners along the State highway.

There is a cycle way and walkway located at the northern end of application area which is part of the west coast wilderness trail and it should be noted that cyclists may cross from one side of the road to the trail or vehicles will be coming and going from the car park. Cyclists may also be present on the State highway, particularly the segment between the northern end of the application area and Golf Links Road (at the Mahinapua Creek Rail Bridge) with drivers needing to slow and overtake as appropriate.

6.6 Dust

Dust can be generated from vehicle movements on unsealed mine access road and through HMC product being transported from site to port.

The mine site access road will be sealed for the first 36 metres from the State highway into the site with a 9m sealed width.

All unsealed roads within the mine activities will have dust suppression water applied when conditions require such as dry periods or wind.

All truck and trailers transporting HMS product from site must undertake the following before leaving the plant area:-

- Covers to the truck and trailer load to be applied and secured.
- Tail doors/ hatches to be closed and pinned/ locked.

Transport Management Plan

- Excess spillage from loading to be removed from trucks/ trailers, mud guards and drawbars.

Drivers should check wheels to ensure no build-up of material between dual wheels or inside rims.

Should a vehicle operator notice dust is being generated by their vehicle movement, reduce speed and report this to the site supervisor/ mine manager.

6.7 Light pollution

During normal planned activities, limited heavy vehicles will operate during the hours of darkness and as such, this will limit any un-necessary light pollution caused by headlight glare into houses and other buildings.

Light vehicles will operate during darkness and in these cases should be aware to limit Main beam usage to a minimum.

When entering and exiting the site, apply the above speed limit maximums, be aware of other traffic and ensure Main beam is only used when this does not shine directly into property and do not use non OEM fitted lights in these areas.

Vehicles should not use any type of roof mounted flashing lights while on site.

6.8 Incidents, accidents and road conditions

All accidents, incidents or near miss occurrences will be reported to the site supervisor as soon as practicable using the forms and processes as detailed in the induction process.

All reported accidents, incidents or near miss occurrences will be investigated. The investigation team will be made up of a minimum of:-

- Person involved
- Any witnesses to the event
- The WMS Project Manager
- Mine Manager or their delegate
- Events involving HMC transport trucks will include a representative from the transport contractor.

Findings from the investigation will be circulated to all interested parties, including where applicable WCRC, WorkSafe NZ, NZTA, NZP&M.

All investigation reports will be kept for a minimum of seven years or until the mine ceases to operate.

Any trends in events will be further investigated. A trend is when three or more events of a similar nature occur.

Accidents and incidents of a type prescribed in Mining Regulations requires notifications and reporting to WSNZ.

Road Conditions

It is the responsibility of each of the permanent HMC truck operators to monitor the conditions of the road, as these drivers will be using this route on a daily basis.

Transport Management Plan

Any areas of road deterioration, damage, missing signs or delineators etc. Are to be treated as incidents and reported to the supervisor (immediate if there is danger, or no later than the end of shift for all other items observed).

The Supervisor/ Project Manager, will review, take photographs where applicable and liaise with Westland DC Rooding Engineers and Waka Kotahi regarding the issues.

7. DEFINITIONS

Project Manager	An employee of Westland Mineral Sands Co Ltd who is responsible for the whole of business operations	
Mine Manager	An employee or contractor that has been deemed competent and has been authorised by the Project Manager to manage the plan. The Project Manager has the authority to fulfil the duties as the Alluvial Mine Manager in that person's absence.	
Noise Limits	<p>Noise (all activities except forestry, and agricultural activities)</p> <p>0700 - 2100 hrs Mon – Fri 0700 - 1800 hrs Saturday</p> <p><i>55dBA L10 at any point within the notional boundary of a residential activity</i></p> <p>all other times including public holidays <i>45dBA L10 at any point within the notional boundary of a residential activity</i></p>	
Light pollution	<p>Glare</p> <p>- max. lux spill to residential property</p>	10 lux