



**Oyu Tolgoi LLC**

Health, Safety and Environment  
Management System Procedures

(Element 10. Operation Control) Land Disturbance Control and Rehabilitation  
Management Plan



<b>Land Disturbance Control and Rehabilitation Management Plan</b>		
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## 1. INTRODUCTION

### Document Number

This document is the Land Disturbance Control and Rehabilitation Management Plan (LDC&RMP) for the Oyu Tolgoi (OT) company. The document reference number for this Management Plan is OT-10-E14-PLN-0005.

### Purpose

The purpose of this Management Plan is to:

- define the scope of the Management Plan and set out applicable management interfaces;
- define roles and responsibilities;
- define the applicable Legal Requirements and Standards relevant to this Management Plan;
- define Company commitments, operational procedures and guidance relevant to this Management Plan;
- define monitoring and reporting procedures, including Key Performance Indicators;
- define training requirements; and
- set out references for supporting materials and information.

### Company commitment

OT company goal is to have a net gain on the biodiversity of the southern Gobi region. OT aims, (as is consistent with Rio Tinto strategy), to reach this goal by the time of mine closure, however OT will seek opportunities to achieve net gain as early as practicable in the mine operations.

The objective of the LDC&RMP is therefore to establish the process and procedures that will ensure:

- Limiting land disturbance activities to as small land as practicable within the legally set land, and plan and construct any facilities as to avoid or minimize impacts on environment, health and livelihood of local community.
- Land disturbance is planned and phased to allow early recognition of risks to priority biodiversity as well as cultural heritage and appropriate avoidance if necessary
- For biodiversity impact mitigation, the mitigation hierarchy including avoidance, minimization, rehabilitation, offsetting and additional protection measure is applied
- Sufficient, suitable top & subsoil and growth medium is recovered and retained for use in rehabilitation of disturbed lands
- Areas disturbed during exploration, construction, development and mining operations will be progressively rehabilitated rather than deferring large scale rehabilitation to the mine closure phase.
- To prepare and complete all preparatory works to ensure timely and progressive implementation of rehabilitation takes place, to maximise chances of success
- Lands rehabilitated to nomadic herder, livestock and wildlife habitat as a post-operational land use is designed to support a self-sustaining, diverse vegetation community consistent with rehabilitation completion criteria.



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- The impacts (positive and negative) of land disturbance, rehabilitation and restoration on priority species and habitats are recorded to enable the mine operations to demonstrate its net gain for natural habitat and individual priority species.

## Application

This Management Plan is intended as a reference material for:

- the regulations related to the sustainable protection of all lands that are legally used and operated in accordance with the relevant legislation on the basis of OT LLC's agreements and permits, and which operates in accordance with applicable laws and regulations to guide implementation of OT's biodiversity commitments (including the specific requirements in regards to identified Critical Habitat) in accordance with the International Finance Corporation (IFC) Performance Standards and the European Bank for Reconstruction and Development (EBRD) Performance Requirements.

This Management Plan is based on the Rio Tinto E14 Land disturbance control and rehabilitation Standard, issued in June 2014, revised "E14 Land management and rehabilitation standard" and relevant legislation and standards of Mongolia.

Appendix A is a commitment register that tracks ESIA commitments relating to land disturbance control and rehabilitation. As this indicates, most ESIA commitments are reflected in specific procedures. This management plan essentially links the relevant OT procedures. It requires that these be implemented in consort to ensure risks around land disturbance are effectively managed through avoidance, minimisation and rehabilitation.

## Authority and Management

The OT General Manager HSES is the custodian of this Management Plan. The plan will be reviewed every two years to reflect changes in operation. Any requests for changes to this Management Plan must be addressed to this person and shall be subject to appropriate review and approval as specified in the change management procedure.

## 2. SCOPE

### Scope of this Management Plan

This management plan applies to all land owned, leased, or managed by Oyu Tolgoi LLC based on legally binding contract and permissions or for which the business may have liability through all phases of project life cycle from exploration to mine closure. This includes both lands directly and indirectly disturbed by our activities and undisturbed lands held as a buffer or for some other reason such biodiversity offset.

### Coherence with other Management Plans

This Management Plan is part of the overall suite of Operations Management Plans developed for the OT LLC and as described in the Environmental and Social Management Plan (ESMP) Framework (OT-10-PLN-0003).

This Management Plan has overlaps and cross-linkages to a number of other Management Plans, including:



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- Biodiversity Management Plan (OT-10-E16-PLN-1003), particularly in relation to protection of wildlife habitats, rare plant species, and native vegetation communities;
- Pastureland and Livelihood Improvement Management Plan(OT-10-PLN-0013), in relation to pastureland management
- Ecosystem Services Monitoring and Evaluation Plan (OT-10-E14-PLN-0009), outlines a set of indicators which allow OT to assess the impacts of operational activities and the effectiveness of mitigation actions.
- Offsets Management Plan (OT-10-E16-PLN-0003), in relation to activities designed to offset residual impacts on biodiversity and deliver the company’s commitment to net gain or no net loss;
- Mineral Waste Management Plan (OT-10-E13-PLN-0001);
- Integrated Mineral Waste, Acid Rock Drainage and Dump Management Plan (OT-10-E8-PLN-0002);
- Contractor Management Framework (OT-07-PLN-9001);
- Mine Closure Plan (OT-10-E14-PLN-0002);
- Stakeholder Engagement Management Plan (OT-05-PLN-0001) and
- Others

### 3. ROLES AND RESPONSIBILITIES

#### Key Roles and Responsibilities for Management Plan Implementation

Principal roles and responsibilities for the implementation of this plan are outlined below.

**Table 1: Roles and Responsibilities**

<b>Role</b>	<b>Accountability</b>
OT General Manager HSES	<ul style="list-style-type: none"> <li>• Overall responsibility for the implementation of this Management Plan, including ensuring that adequate resources are provided to allow implementation.</li> <li>• Develop and communicate on a regular basis to relevant department managers targets related to land use requirements.</li> </ul>
Manager Environment and Biodiversity	<ul style="list-style-type: none"> <li>• Ensures this plan is available to all OT LLC employees and contractors.</li> <li>• Ensures all Operational department Managers implement the relevant control measures indicated in this management plan.</li> <li>• Ensure the OT staffs has an adequate knowledge for implementation and improvement of this management plan and engage with professional experts to obtain specialist advice in relation to the achievement of this plan.</li> <li>• Liaises with other departments to plan and schedule land disturbance and rehabilitation activities.</li> </ul>
All Department Managers	<ul style="list-style-type: none"> <li>• Ensure management control measures in this plan are implemented at operational work places / areas</li> </ul>



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<b>Role</b>	<b>Accountability</b>
	<ul style="list-style-type: none"> <li>• Provide necessary information and quarterly updates on planned land disturbance activities to the Environmental teams to support effective implementation of this management plan</li> </ul>
HSE Compliance team	<ul style="list-style-type: none"> <li>• Ensure changes in National legislation on land, and also updates in the applied National and Project standards are timely informed to the Environment Manager and Environmental teams including the Land and Rehabilitation for incorporation into this Management plan.</li> </ul>
Environmental Land and Rehabilitation team	<ul style="list-style-type: none"> <li>• Develop and update relevant procedures of LDC&amp;RMP</li> <li>• Ensuring the associated procedures are enforced and records retained and updated.</li> <li>• Preparation of annual environmental reports on implementation of this management plan.</li> <li>• Maintain geodatabase on OT LLC land use, and keep accurate and up-to-date on the GIS database</li> </ul>
Community Department	<ul style="list-style-type: none"> <li>• Communicate timely with Environmental Land and Rehabilitation team of land related community complaints and recorded incidents to ensure timely responses to the issues and accurate tracking of KPIs of this management plan.</li> </ul>
Advisor Government Relations	<ul style="list-style-type: none"> <li>• Provide necessary documents (permits, approvals, and certificates related to land on which the business may have liability) and other relevant information to Environmental GIS Officer for regular and accurate updating of the OT total land holdings database.</li> </ul>
Senior Surveyor, Mine Technical Services	<ul style="list-style-type: none"> <li>• Provide monthly updates on land disturbance by Open Pit operations, including TSF.</li> </ul>
OT All Employees and Contractors	<ul style="list-style-type: none"> <li>• Comply with the environmental requirements enforced in this management plan.</li> </ul>

### Key Interfaces

Key interfaces in the implementation of this Management Plan (i.e. roles with responsibility for delivering elements of this Management Plan) include:

- HSES Department;
- Community Department;
- Concentrator and Infrastructure Departments;
- Engineering/Maintenance;
- Open Pit and TSF Department;
- Underground Department;
- Permitting Department and
- Legal team.



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Due to the need to manage expectation with local authorities regarding completion indicators and outcomes, the following stakeholders have been identified as key external interfaces of this management plan:

- Local and state regulators;
- Local communities; and
- Interest groups including Tri-Partite Council and Joint Working Group of Khanbogd soum administration and herders.

#### **4. OPERATION STANDARDS**

OT LLC complies with a variety of legal and other requirements (e.g., OT LLC and Rio Tinto standards, international finance institution standards, etc.). The following provides a brief summary of the standards and legal requirements applicable to land disturbance.

Applicable Standards must be complied with for all Project activities (the “Operation Standards”). Operation Standards comprise:

- applicable Mongolian Legislation;
- applicable Mongolian National Standards;
- Detailed Environmental Impact Assessment (DEIA) requirements;
- other commitments to and requirements of Mongolian Government authorities;
- applicable Lender standards;
- applicable Rio Tinto standards; and
- Other industry legal documents with which OT has committed to comply.

#### **Applicable Mongolian Legislation**

##### ***Mongolian Laws***

- Law on Environmental Protection, 1995 (amendment in 2012);
- Law on Land, 2002 (amendment in 2015);
- Law on Land Fees, 1997 (amendment in 2015);
- Law on Soil Protection and Prevention of Desertification, 2012;
- Law on Subsoil, 1988 (amendment in 1994);
- Law on Cultural Heritage Protection, 2014;
- Law on Fauna, 2012.
- Law on Natural Plants, 1995 (amendment in 2010);
- Law on Fees for Natural Resources Use, 2012;
- Law on Environmental Impact Assessment, 2012;
- Law on Minerals, 2006





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### Applicable Mongolian National Standards

Mongolian National Standards are developed by the Mongolian Agency for Standardization and Metrology. These standards include biodiversity related issues in regards to land reclamation and mine rehabilitation including re-vegetation as provided below:

- MNS 5914:2008. Environment. Land reclamation. Terms and definitions
- MNS 5915:2008. Environment. Classification of land disturbed by mining activities
- MNS 5916:2008. Environment. Requirements for fertile soil removing and its temporary storage during the earth excavation
- MNS 5917:2008. Environment. Reclamation of land disturbed by mining activities. General technical requirements
- MNS 5918:2008. Environment. Re-vegetation of disturbed land. General technical requirements MNS 5850:2019. Soil quality. Soil pollutants permissible value

### DEIAs

Land disturbance control and rehabilitation management requirements set out in Environmental Protection Plans and Environmental Monitoring Plans which accompany DEIAs have been incorporated into this Management Plan. The OT statutory commitments relevant to land disturbance and rehabilitation are provided in the DEIA reports which have been prepared in accordance with the Law on Environmental Impact Assessment and the *Minerals Law of Mongolia*.

### Other Commitments to and Requirements of Mongolian Government Authorities

Paragraphs 6.4, 6.9, 6.10 and 6.11 of the Investment Agreement apply:

- 6.4. The Investor shall meet all costs for each year of implementing an environmental protection plan ("EPP") and environmental monitoring and analysis programme, in connection with implementation of the OT Project and shall provide to the State central administrative authority in charge of environment a report, prepared by a certified, independent, professional firm, on addressing the Investor's implementation of the measures specified in the EPP every 3 (three) years.
- 6.9. The Investor shall submit annually a report detailing its comprehensive environmental monitoring and analysis programme associated with Core Operations to the State central administrative authority in charge of environment.
- 6.10. If any material adverse impact on air, water, soil, animals, plants and/or subsoil is found by the environmental monitoring and analysis programme, the Investor shall take necessary measures to eliminate such material adverse impact at the Investor's expense.
- 6.11. The Investor shall pay compensation for unanticipated and irreversible ecological damage directly caused by the operations of the OT Project based on the ecological and economic value for the permanently damaged natural resources, to the extent prescribed by the Law on Environmental Protection and other relevant laws and regulations.

### Applicable International Standards and Guidelines

The international standards which Oyu Tolgoi will implement are those set by the IFC and EBRD. Specifically, OT LLC is committed to meeting the requirements of IFC PS 6 and EBRD PR 6, which require no net loss of natural habitat and net gain for priority biodiversity. The standards and application guidance notes

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are the standards applicable at the time of the loan agreement came into effect. The key relevant guidelines are IFC EHS Guidelines for Mining, 2007.

### ***IFC EHS Guidelines for Mining***

The IFC EHS Guidelines for mining have the following guidance with regard to land disturbance, topsoil management and rehabilitation<sup>1</sup>:

*Temporary and permanent terrestrial habitat alteration should be minimized to the extent feasible and be consistent with the requirement to protect and preserve critical habitat. Recommended management strategies include:*

- *Siting access routes and facilities in locations that avoid impacts to critical terrestrial habitat, and planning exploration and construction activities to avoid sensitive times of the year;*
- *Minimizing disturbance to vegetation and soils;*
- *Implementation of mitigation measures appropriate for the type of habitat and potential impacts including, for example, post-operation restoration (which may include baseline inventories, evaluations, and eventual rescue of species), offset of losses, or compensation of direct users;*
- *Planning and avoiding sensitive areas and implementing buffer zones;*
- *Implementing soil conservation measures (e.g. segregation, proper placement and stockpiling of clean soils and overburden material for existing site remediation) - key factors such as placement, location, design, duration, coverage, reuse, and single handling should be considered;*
- *Where topsoil is pre-stripped, it should be stored for future site rehabilitation activities. Topsoil management should include maintenance of soil integrity in readiness for future use. Storage areas should be temporarily protected or vegetated to prevent erosion;*
- *Conserving the quality and composition of growth medium for use (e.g. for capping) during site reclamation and closure activities;*
- *Ensuring that the growth medium is sufficient to support native plant species appropriate for the local climate and consistent with proposed future land uses. Overall thickness of the growth medium should be consistent with surrounding undisturbed areas and future land use.*
- *Development of a Mine Closure Plan with a commitment to progressive rehabilitation of the mine area including activities such as demolishing buildings and physical infrastructure; closing open pits; stabilizing and preventing public access to underground workings and shafts; reclamation of slopes; and ensuring that water draining from the mine site and waste deposits are not a risk to human health and the environment.*

### **Applicable Rio Tinto Standards**

The primary Rio Tinto Standards that applies to land disturbance and rehabilitation is *E14 - Land management and rehabilitation standard, 2017*, and the *Closure Plan, 2013*.

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<sup>1</sup> IFC 2007 EHS Guidelines for Mining - Page 10

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## 5. MANAGEMENT CONTROLS

The key operational management controls described in *Table 2* below point towards the relevant procedures that contain ESIA commitments. In addition, any ESIA commitments that (1) have not moved into procedures; (2) relate specifically to land disturbance control or rehabilitation; and (3) are not contained within other management plans are included in *Table 2*.

This management plan is also supported by a number of documents, which provide more detail on specific operational day to day activities undertaken by OT personnel and contractors, these are:

- Land Disturbance Permit Procedure (OT-10-E14-PRC-0003);
- Priority Plant Protection Procedure (OT-10-E14-PRC-0007);
- Top & subsoil Handling Procedure (OT-10-E14-PRC-0001);
- Long-term top & subsoil stockpile quality monitoring procedure (OT-08-TMP-0001)
- Rehabilitation Procedure (OT-10-E14-PRC-0010)
- SWP for Soil sampling for pollutant analysis (OT0243-00-SWPO-0002)
- SWP for Monitor soil bacteriology and hygiene (OT0243-00-SWPO-0003)
- SWP for Characterise soil properties in the field (OT0243-00-SWPO-0004)
- SWP for Soil sampling for analysis of chemical and physical properties (OT0243-00-SWPO-0005)
- Incident Management Procedure (OT-14-PRC-0001)

**Table 2: Key Management Controls**

ID	Topic/ Aspect	Applicability/ Impacts	Control Description	Responsible Parties	Means of Verification
LR01	Land Use	<ul style="list-style-type: none"> <li>• Economic displacement (loss of pasture/disrupted access to pasture and water)</li> </ul>	<ul style="list-style-type: none"> <li>• Rehabilitate lands to beneficial post-mining land use to meet established rehabilitation success criteria.</li> <li>• Lands rehabilitated to nomadic herder, livestock and wildlife habitat as a post-operational land use must be designed to support a self-sustaining, diverse vegetation community consistent with rehabilitation success criteria.</li> </ul>	<ul style="list-style-type: none"> <li>• Environment &amp; Biodiversity team, HSES Department;</li> <li>• Community Department</li> </ul>	<ul style="list-style-type: none"> <li>• Rehabilitation records</li> </ul>
LR02	Land Use	<ul style="list-style-type: none"> <li>• Uncontrolled and unnecessary Land disturbance</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation of the Land Disturbance Permit Procedure that sets rules for land disturbance and establishes the environmental requirements for the internal approvals process.</li> </ul>	<ul style="list-style-type: none"> <li>• Environment &amp; Biodiversity team, HSES Department;</li> <li>• Operational and Infrastructure departments</li> <li>• Contractors</li> </ul>	<ul style="list-style-type: none"> <li>• Land Disturbance permit registers and incident records</li> </ul>
LR03	Top & subsoil	<ul style="list-style-type: none"> <li>• Loss of top &amp; subsoil</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation of the Top &amp; subsoil Handling Procedure that includes, but is not limited to,</li> </ul>	<ul style="list-style-type: none"> <li>• Operational and Infrastructure departments</li> </ul>	<ul style="list-style-type: none"> <li>• Top &amp; subsoil log sheets</li> </ul>

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ID	Topic/ Aspect	Applicability/ Impacts	Control Description	Responsible Parties	Means of Verification
		<ul style="list-style-type: none"> <li>Impact of dust on top &amp; subsoil stockpile quality</li> </ul>	<ul style="list-style-type: none"> <li>details with respect to planning, stripping, storage and use of top &amp; subsoil.</li> <li>To ensure the overall site needs and balance in rehabilitation growth media, suitable subsoils and other geological materials including benign (NAF) waste rock, will be salvaged and stockpiled.</li> <li>Implementation of the Long-term Top &amp; Subsoil Stockpile Monitoring Procedure that defines scope and requirements for effective top &amp; subsoil stockpile quality monitoring.</li> </ul>	<ul style="list-style-type: none"> <li>Environment &amp; Biodiversity team, HSES Department;</li> </ul>	<ul style="list-style-type: none"> <li>Top &amp; subsoil handling performance inspection reports</li> <li>Land disturbance permits with such requirements specified</li> <li>Top &amp; subsoil stockpile monitoring records</li> </ul>
LR04	Soil	<ul style="list-style-type: none"> <li>Impacts on soil quality in the MLA and infrastructure areas</li> </ul>	<ul style="list-style-type: none"> <li>Mitigation, where possible preventions of potential impacts on soil quality in the MLA and infrastructure areas are ensured with implementation of the air emissions and soil contamination control measures.</li> <li>Routine soil monitoring (chemical and physical characteristics, contamination, etc.) is implemented in accordance with the respective SWPs including:               <ul style="list-style-type: none"> <li>Soil sampling for pollutant analysis (OT0243-00-SWPO-0002)</li> <li>Monitor soil bacteriology and hygiene (OT0243-00-SWPO-0003)</li> <li>Characterise soil properties in the field (OT0243-00-SWPO-0004)</li> <li>Soil sampling for analysis of chemical and physical properties (OT0243-00-SWPO-0005);</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Environment &amp; Biodiversity team, HSES Department;</li> </ul>	<ul style="list-style-type: none"> <li>Laboratory results</li> <li>Annual environmental reports</li> </ul>
			<ul style="list-style-type: none"> <li>Land quality assessments (state inspection of land condition and quality) in the MLA and its infrastructure areas are organized every five year in compliance with the Mongolian Law on Land</li> </ul>	<ul style="list-style-type: none"> <li>Government Relations Department</li> </ul>	<ul style="list-style-type: none"> <li>Land Quality Assessment report</li> </ul>



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ID	Topic/ Aspect	Applicability/ Impacts	Control Description	Responsible Parties	Means of Verification
LR05	Rehabilitation	<ul style="list-style-type: none"> <li>Land disturbance</li> </ul>	<ul style="list-style-type: none"> <li>Oyu Tolgoi will implement annual Environmental Management Plans supported by Rehabilitation procedures with the aim to achieve final land uses compatible with pre-mining uses and to reinstate equivalent vegetation types and cover, water bodies, wildlife habitat, and livestock pasture, based upon completion criteria in line with OT's biodiversity commitment to deliver No Net Loss of natural habitats and net gain for critical habitat.</li> </ul>	<ul style="list-style-type: none"> <li>Environment &amp; Biodiversity team, HSES Department;</li> </ul>	<ul style="list-style-type: none"> <li>Rehabilitation records</li> </ul>
LR06	Rehabilitation	<ul style="list-style-type: none"> <li>Changes to topography and landscape through cut and fill, levelling, borrow and pit excavation, creation of waste dumps</li> </ul>	<ul style="list-style-type: none"> <li>Implementation of the OT Rehabilitation Procedure in line with the Rio Tinto Land Management and Rehabilitation standard (E14)</li> <li>The company will rehabilitate equal areas to the area of disturbance.</li> </ul>	<ul style="list-style-type: none"> <li>Environment &amp; Biodiversity team, HSES Department;</li> <li>Operations and Infrastructure Departments</li> <li>Contractors</li> </ul>	<ul style="list-style-type: none"> <li>LDP-completion (rehabilitation) inspection reports / Rehabilitation Acts</li> <li>Rehabilitation monitoring records</li> <li>Annual report for Environmental Management Plan Performance</li> </ul>
LR07	Rehabilitation	<ul style="list-style-type: none"> <li>Vegetation cover loss</li> </ul>	<ul style="list-style-type: none"> <li>Implementation of the OT Procedure in line with the Rio Tinto Land Disturbance Control and Rehabilitation standard (E14) and OT Priority Plant Protection Procedure;</li> <li>The company will rehabilitate equal areas to the area of disturbance.</li> <li>The company will restore priority species equal or better to those in the original disturbed habitat</li> </ul>	<ul style="list-style-type: none"> <li>Environment &amp; Biodiversity team, HSES Department;</li> <li>Operational and Infrastructure departments</li> <li>Contractors</li> </ul>	<ul style="list-style-type: none"> <li>Pre-disturbance vegetation study records</li> <li>Rehabilitation records</li> <li>Post-rehabilitation Monitoring record and report</li> </ul>
LR08	Rehabilitation	<ul style="list-style-type: none"> <li>Loss of natural vegetation and specific plant communities</li> </ul>	<ul style="list-style-type: none"> <li>Implement the Rehabilitation procedure and apply Completion Criteria.</li> <li>The area will rehabilitate equal to the pre-disturbance condition.</li> </ul>	<ul style="list-style-type: none"> <li>Environment &amp; Biodiversity team, HSES Department;</li> </ul>	<ul style="list-style-type: none"> <li>Post-rehabilitation monitoring records and reports</li> <li></li> </ul>
LR09	Topography	<ul style="list-style-type: none"> <li>Visual impact of structures inside the Mine Licence Area.</li> </ul>	<ul style="list-style-type: none"> <li>OT will minimise visual impacts for low lying structures using the following measures where practicable:</li> </ul>	<ul style="list-style-type: none"> <li>Environment &amp; Biodiversity team, HSES Department;</li> </ul>	<ul style="list-style-type: none"> <li>Rehabilitation records</li> </ul>



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ID	Topic/ Aspect	Applicability/ Impacts	Control Description	Responsible Parties	Means of Verification
			<ul style="list-style-type: none"> <li>○ Use of landscaping for smaller structures and open pit mine</li> <li>○ Screening of structures by the WRD</li> <li>○ Use of 10% of residential area in Mine Licence Area for landscaping.</li> <li>● OT will survey and use natural topography to screen operations where appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>● Open Pit Department</li> </ul>	
LR10	Priority Plants	<ul style="list-style-type: none"> <li>● Loss of priority plants and habitats</li> </ul>	<ul style="list-style-type: none"> <li>● Quarterly review of planned land disturbance activities will take place with the involvement of relevant departments, to allow appropriate biodiversity risk review and scheduling of land disturbance permitting, pre-disturbance surveys, top &amp; subsoil management and rehabilitation</li> <li>● Implement Priority Plant Protection procedure for rare plant survey.</li> <li>● Selection of mine sites with considerations of avoidance of priority plants in accordance with the Priority Plant Protection procedure and LDP procedure.</li> </ul>	<ul style="list-style-type: none"> <li>● Environment &amp; Biodiversity team, HSES Department;</li> <li>● OT Engineering &amp; Projects Department</li> <li>● Operational and Infrastructure departments</li> </ul>	<ul style="list-style-type: none"> <li>● Register of planned construction and infrastructure developments</li> <li>● area pre-disturbance surveys included in LDPs</li> <li>● Rare plant transplantation record and report</li> </ul>

## 6. IMPLEMENTATION SCHEDULE

### Review and Revision of this Management Plan

This Management Plan will be reviewed every two years and any necessary revisions made to reflect the changing circumstances or operational needs of OT. Review and revision of this Management Plan will be the responsibility of the OT General Manager HSES who is custodian of this Plan.

If material changes to operating procedures are required (as identified through the Management of Change procedure contained within the OT HSE Management System), this Management Plan may be updated on an “as required” basis.

Any revisions to this Management Plan will be uploaded to the OT Portal to ensure that all OT staff have access to the latest version of this Management Plan



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## 7. MONITORING

### Overview of Monitoring Requirements

The Monitoring measures that are to be implemented during the operations phase to assess compliance with Operation Standards, including rehabilitation completion criteria, are described in this section.

In the event that monitoring identifies non-conformance with Operation Standards including completion criteria, these will be investigated, and appropriate corrective actions identified to enable adaptive management (see Element 14 Non-conformance incident and action management of the OT HSE MS).

### Key Performance Indicators

Key performance indicators (KPIs) that will track implementation of this plan's key management controls are outlined in Table 3.

**Table 3. Key Performance Indicators**

ID	KPI	Target/threshold	Monitoring measure	Relevant management controls
LR-KPI 01	Area rehabilitated compared with the area in annual <del>technical</del> rehabilitation plan	Target - 100% implementation	Implementation of Annual rehabilitation plan Completion criteria in Rehabilitation procedure	LR01, LR02, LR03, LR05, LR06, LR07, LR08, LR09
LR-KPI 02	Volume of stored top& subsoil (both short and long term) compared with the volume estimated in approved LDPs	Target – 100% implementation of estimated top & subsoil removal implementation	Records in Top & subsoil log sheet Top & subsoil handling procedure; Top&subsoil handling performance inspection	LR03
LR-KPI 03	Number of recorded non-compliances against the Land Disturbance Permit Procedure	Target – zero non-compliance per year	Number of land disturbance activities started prior to issuance of permits Incident management procedure	LR02, LR10
LR-KPI 04	Condition of rehabilitated land	Condition in line with the relevant completion criteria	Annual rehabilitation plan Progress toward completion criteria in the Rrehabilitation procedure	LR08, LR01, LR05
LR-KPI 05	Non-compliance with soil quality standards	Target: zero non-compliance per year	Soil chemical and physical, bacteriological, and hydrocarbon content monitoring to be implemented as per Annual Environmental Monitoring Plan:	LR04

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ID	KPI	Target/threshold	Monitoring measure	Relevant management controls
			<ul style="list-style-type: none"> <li>• SWP for Soil sampling for pollutant analysis (OT0243-00-SWPO-0002)</li> <li>• SWP for Monitor soil bacteriology and hygiene (OT0243-00-SWPO-0003)</li> <li>• SWP for Soil sampling for analysis of chemical and physical properties (OT0243-00-SWPO-0005)</li> </ul>	

### Key Monitoring Activities

Key monitoring activities will focus on implementation of the Land Disturbance Permit Procedure, Top & Subsoil Handling Procedure, Priority Plant Protection Procedure and Rehabilitation Procedures. . The key monitoring measure for progress of rehabilitation toward Completion Criteria will feed into the mine operation Net Positive Impact forecast.

Key monitoring measures are set out below.

**Table 4. Key Monitoring Measures**

ID	Topic/Aspects	Methods	Periodicity	Location
LR-M01	Land disturbance	Analyse LDP requests and geodatabase	Annually	All disturbed areas
LR-M02	Priority Plant Conservation	Report on implementation of the Priority Plant Protection procedure: - Mitigation measures should be taken to reduce the impact of priority plants on each area LDP requested area: - Monitor the survival rate and growing progress of translocated priority plants and report it in the annual report - Investigate and implement additional plant growth techniques when translocation process of priority plant species failure	Annually	All disturbed areas
LR-M03	Top & subsoil	Report on implementation of the top&subsoil procedure: - top & subsoil stripping / stockpiling against approved LDP conditions and; - top & subsoil stockpile quality monitoring as set out in the annual EMP	Annually	Top & subsoil stockpiles





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ID	Topic/Aspects	Methods	Periodicity	Location
LR-M03	Rehabilitation	Track area rehabilitated against area disturbed. Report within the annual rehabilitation plan. <ul style="list-style-type: none"><li>• Soil quality monitoring prior disturbance and after rehabilitation.</li><li>• Habitat rehabilitation including area, species, seedling survival rates and measures of revegetation success (% cover, species richness, % perennials versus annuals)</li></ul>	Annually	Covers all OT rehabilitation

## 8. TRAINING

### Overview

All necessary training is provided as part of induction training (to provide general awareness) and job-specific training as necessary.

### Induction Training

All employees of OT and Contractors working at OT will be provided with general induction, site specific induction and a broad range of health, safety and environmental awareness training, including a specific awareness module on this management plan and related procedures.

### Job-Specific Training

All employees and contractors working at OT shall be subject to toolbox training as required. This will include details on the importance of the procedures associated with this management plan. OT LLC will seek to provide learning opportunities to field supervisors to build capacity within OTLLC to address ongoing rehabilitation, tree planting and translocation in accordance with the needs of the company.

## 9. AUDITING AND REPORTING

### Internal Auditing

Work area inspections will be carried out by operational area superintendents / supervisors covering a broad range of health, safety and environmental aspects. Routine inspections will additionally be carried out by the HSES Department using an Inspection Checklist (*OT-16-FRM-0007-D-HSE Work Area Inspection Form*) Use the latest version of this work area inspection form at [http://otportal/HSEManagementSystem/SitePages/mon\\_check.aspx](http://otportal/HSEManagementSystem/SitePages/mon_check.aspx).

Any incidents identified during these inspections will be reported to the incident management system (Element 14).



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Conformance with this management plan will be monitored via annual internal audit program in accordance with Element 16 Performance Assessment and auditing. This will be undertaken to assess broad compliance with requirements of HSE management system (including ESIA and management plans).

All incidents and non-conformances identified during these inspections are reported as per the requirements of the OT HSE Management System as described in the Environmental ESMP Framework Document.

### **External Auditing**

Conformance with this plan will be subject to periodic assessment as part of the Rio Tinto HSE Business Conformance Audit programme and by Mine operation Lenders.

### **Record keeping**

Records of audits, inspections and incidents will be managed in accordance with Element 8 Documentation and Document Control and Element 15 Data and Records Management.

Rio Tinto Business Solution shall be used to record Internal and External Audit findings and related actions and Incidents and related investigation and actions.



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**10. DOCUMENT CONTROL**

File Name	OT-10-E14-PLN-0005-E-Land disturbance control and Rehabilitation management plan_v1.1		
Description	This Management Plan is intended as a reference material for regulations related to the sustainable protection of all land that is legally used by OT LLC on the basis of a contract and permit, and which operates in accordance with applicable laws and regulations.		
Original Author(s)	Tsetsegsuren Luvsan and Altantsetseg Balt		
Creation Date	2015.09.12		
Change Number	Record	##	

Risk Ranking	Assessment Date	Risk Assessor	Review Schedule	Next Review Date
Moderate	2020.03.22	Altantsetseg Balt, Specialist Rehabilitation	Bi-annually	2022.04.01

Version	Revision Date	Author(s)	Approved By	Revision Notes
1.0	2016.04.01	Tsetsegsuren Luvsan, Altantsetseg Balt, Emma Hume	Dennis Hosack	First version.
1.1	2020.03.07	Altantsetseg Balt	Erdenebayar Naran	Revision made as per updated version of RT E14 Land management and rehabilitation standard and OT's procedures.



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**11. DOCUMENT APPROVAL**

Approved Date	Approver Name	Approver Signature	Company Seal Stamp
	<b>Procedure Owner:</b> Murray Swyripa, General Manager HSES		
	<b><u>Procedure Approver:</u></b> Armando Torres Chief Executive Officer, Oyu Tolgoi LLC		



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**12. APPENDIX A: LAND DISTURBANCE CONTROL AND REHABILITATION COMMITMENTS REGISTER**

This spreadsheet tracks the history of changes to all land disturbance and rehabilitation related management actions from the Construction Phase Flora and Fauna Management Plan.

Construction Phase ID	Topic/ Aspect	Applicability/ Activity	Control Description	New ID Ref	Documents	Comment/Justification for removal or revision of management action
FF04	Land disturbance	Land disturbance procedure	Oyu Tolgoi operates Land Disturbance Permit procedure which is an internal approval for any type of land disturbing activities covering all native vegetation clearing inside and outside the lease areas.	LDPP	Land Disturbance Permit Procedure	
FF04-a	Land disturbance	Land disturbance procedure	Prior to disturbance, proposed disturbance areas will be demarcated and inspected by Oyu Tolgoi Environmental Officers for aspects which may require environmental protection (threatened flora and fauna, priority fauna habitat, significant ecological communities etc.). A land disturbance permit can be refused if it will negatively impact priority biodiversity features as outlined in the project Biodiversity Management Plan.	LDPP	Land Disturbance Permit Procedure	Section 4.1.2. Bullet 1, and LDP Compliance Inspection Form address boundary demarcation prior to work being conducted. Several different points in the LDP mention habitat identification and avoidance, and this would feed directly into demarcation of areas of work: Areas where avoidance of habitat are mentioned include: Section 1.1: Bullet 4; Section 3: Environmental Department; Section 4.1 Introductory paragraph; Section 4.1.2 Topsoil Removal; Section 4.1.7 Biodiversity Conservation and Habitat Protection: Bullet 1 and 2.
FF04-b	Land disturbance	Land disturbance procedure	Where necessary, rare or endangered species of flora identified in the work area may be transplanted in order to avoid adverse environmental impacts.	LDPP	Land Disturbance Permit Procedure	Section 4.1.2. Bullet 4, on transplanting see also : Rehabilitation Procedures (OT-10-E14-PRC-0002)

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Construction Phase ID	Topic/ Aspect	Applicability/ Activity	Control Description	New ID Ref	Documents	Comment/Justification for removal or revision of management action
FF04-c	Land disturbance	Land disturbance procedure	Where impacts to an item or items of environmental or cultural significance are unavoidable, all practicable steps will be taken to minimise the degree of impact.	LDPP	Land Disturbance Permit Procedure	Section 4.1.2. Bullet 4, on transplanting; Section 4.2.2 on discovery and rescue of cultural heritage, as well as chance finds procedure; LDP compliance form, reference to chance finds procedure compliance;
FF04-d	Land disturbance	Land disturbance procedure	Areas containing an item or items of environmental or cultural significance (including biodiversity) which is determined cannot be disturbed will be physically barricaded and sign posted.	LDPP	Land Disturbance Permit Procedure	Section 5: Area of Significance Definition; Section 4.1.7; Section 4.2.2 Cultural Heritage Protection first paragraph;
FF04-e	Land disturbance	Land disturbance procedure	Where practicable, clearance of vegetation identified as containing potential breeding resources for fauna is to be conducted outside of breeding periods.	LDPP	Land Disturbance Permit Procedure	Several different points of mention in LDP about habitat identification and avoidance, and Section 4.1.2. Topsoil Removal, Bullet 7 notes avoidance of work during bird breeding seasons. Areas where avoidance of habitat are mentioned include:: Section 3: Environmental Department; Section 4 Intro Paragraph; Section 4.1.2 Topsoil Removal; Section 4.1.7 Biodiversity Conservation and Habitat Protection: Bullet 1 and 2
FF04-f	Land disturbance	Land disturbance procedure	Where construction activities are unable to be scheduled outside of breeding periods, for example – Haboura Bustard lekking season, specific activity plans will be developed that include: § Field monitoring of proposed disturbance area immediately prior to and during activities to identify habitat or activity that will be avoided; § Specific measures to minimise construction activities in identified sensitive areas (such as the Galbyn Gobi Important Bird Area); § Measures to schedule works such that	LDPP	Land Disturbance Permit Procedure	Specific requirements incorporated into Section 4.1.7 of LDP



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			impacts on sensitive areas can be avoided where ever possible; and § Specific induction of contractors and employees on measures to minimise disturbance of breeding species through restriction of certain activities or avoidance of machinery use in identified areas.			
FF06-a	Land take, earthworks and construction	Restoration	Oyu Tolgoi will assess the feasibility and practicality of collecting seeds from local species and they will be propagated in a Khanbogd nursery where practical.	RP	Land Disturbance Permit Procedure, Rehabilitation Procedure	
FF06-b	Land take, earthworks and construction	Restoration	Oyu Tolgoi will return the maximum amount of disturbed land to pre-mining conditions suitable for nomadic herdsman and their grazing animals.	LD01	Mine Closure Plan	The Mine Closure Plan include commitments to, as a minimum, rehabilitation of an equal area of land as that disturbed by the project. These plans also include land rehabilitation completion criteria that reflect traditional land use requirements.
FF06-c	Land take, earthworks and construction	Restoration	Oyu Tolgoi will leave the open pit areas (e.g. borrow pits), waste dumps and TSF in a condition that adequately protects long term safety of animals and the public.	MCP	Mine Closure Plan	
FF06-d	Land take, earthworks and construction	Restoration	Oyu Tolgoi will use, where possible, locally occurring vegetation species in the reclamation process.	RP	Rehabilitation Procedure	



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Construction Phase ID	Topic/ Aspect	Applicability/ Activity	Control Description	New ID Ref	Documents	Comment/Justification for removal or revision of management action
FF07	Rehabilitation	General	Oyu Tolgoi will implement annual Rehabilitation Management Plans with the aim to achieve final land uses compatible with pre-mining uses including endemic vegetation cover, water bodies, wildlife habitat, and livestock pasture.	LD05	LDCRP	
FF07-a	Rehabilitation	General	Oyu Tolgoi will rehabilitate and restore areas and features impacted in line with the standard Rio Tinto rehabilitation and restoration practice.	LD07	LDCRP	
FF07-c	Rehabilitation	General	Suitable plant species for use in rehabilitation, seed species mix, application rates etc. will be determined by rehabilitation trials conducted by the Oyu Tolgoi Environment Team. Vegetation of natural analogue sites will be used to guide the ratio of annual to perennial plants used in rehabilitation seeding mixes.	RP	Rehabilitation Procedure	In the LDP, this is addressed in Section: 4.4 Earthwork Completion or Reclamation, paragraph 2; In the Rehabilitation Procedure, this is addressed in Section 4.1.2 Roads and Tracks for Rehabilitation, Bullet 4; Section 4.2.2 Borrow Pits for Rehabilitation, Bullet 10.
FF07-d	Rehabilitation	General	Where appropriate, rehabilitation and restoration of disturbed vegetation will specifically include Priority Biodiversity Features such as Mongolian Chesney, Riverine Elm Trees and Tall Saxaul.	RP	Rehabilitation Procedure	The Rehabilitation Procedure includes the need to include species of conservation and or cultural significance in land rehabilitation which is a broader and more inclusive description than naming the specific species.
FF07-e	Rehabilitation	General	Where appropriate, use culturally useful/significant plant species as part of rehabilitation of disturbed areas.	RP	Rehabilitation Procedure	
FF07-f	Rehabilitation	General	As part of its rehabilitation programmes, Oyu Tolgoi will progressively recreate stable landforms compatible with the surrounding environment following the completion of Oyu Tolgoi mine project infrastructure components.	RP	Rehabilitation Procedure	





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FF07-g	Rehabilitation	General	Areas disturbed during exploration, construction, development and mining operations will be progressively rehabilitated rather than deferring large scale rehabilitation to the mine closure phase.	LD03	LDCRP	
FF07-h	Rehabilitation	General	Rehabilitation will also be managed through the Mine Closure Management Plan that will be developed as part of the suite of operational management plans. See Chapter D21: Mine Closure and Rehabilitation Framework and also Chapter D4: Topsoil Construction Management Plan.	MCP	Mine Closure Plan	
FF07-i	Rehabilitation	Rehabilitation	Areas disturbed during exploration, construction, development and mining operations, including the Temporary Airstrip, will be progressively rehabilitated rather than deferring large scale rehabilitation to the mine closure phase.	LD03	LDCRP	
FF08	Reinstatement	Roads and tracks	Old and disused roads and tracks that were constructed by Oyu Tolgoi will be progressively rehabilitated. Rehabilitated tracks and roads will be appropriately sign-posted to prevent future use by vehicles and will be monitored to assess rehab success.	RP	Rehabilitation Procedure	
FF10	Land take, earthworks and construction	Rare species	Prior to disturbance, proposed land disturbance areas will be demarcated and inspected by suitably qualified Oyu Tolgoi Environmental Officers for aspects which may require environmental protection (threatened flora and fauna, priority fauna habitat, conservation significant ecological	LDDP	Land Disturbance Permit Procedure	Land Disturbance Permit Procedure Section 3: Environmental Department Responsibilities; Section 4.1 states "Environmental requirements to be considered in processing LDP requests include topsoil protection, rare or endangered flora species protection, wildlife and its habitat protection, and water resource



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Construction Phase ID	Topic/ Aspect	Applicability/ Activity	Control Description	New ID Ref	Documents	Comment/Justification for removal or revision of management action
			<p>communities etc.). Based on results of environmental survey, the Environmental Department may develop specific measures to protect flora and fauna with a proposed land disturbance envelope. These measures must be implemented and maintained by the earthwork operators/contractors at all times throughout the proposed earthwork. Biodiversity features retained within a land disturbance envelope will be mapped and monitored to ensure adverse impacts are avoided/minimised. In circumstances where trees must be removed and not translocated, the species and tree age/diameters will be logged. Recording of all other incidents involving fauna.</p>			<p>and quality protection" Section 4.1.2 Topsoil Removal Section 4.1.7: "The Environmental Department shall take necessary actions on biodiversity conservation, as well as on habitat protection following the conclusions from the pre-disturbance inspections in proposed work areas. The Environmental Department may develop recommendations for Contractors on biodiversity and habitat protection,. The recommendations must be implemented by the earthwork operators at all times throughout the proposed earthwork" Section 4.1.7 Biodiversity Conservation and Habitat Protection has been updated to reference fauna incident reports.</p>
FF11	Land take, earthworks and construction.	Rare plants - relocation	<p>Where pre-clearance surveys identify the presence of priority plant species, the Oyu Tolgoi Environmental Department will investigate the potential for relocating individuals of priority plant species.</p> <p>Any use of herbicides will comply with the requirements for pesticide use and management of paragraphs 12-15 of the 2006 version of IFC Performance Standard 3: Pollution Control and Abatement.</p>	LDPP	Land Disturbance Permit Procedure	
FF11-a	Land take, earthworks and construction.	Rare plants - relocation	<p>Prior to disturbance, proposed land disturbance areas will be demarcated and inspected by suitably qualified Oyu Tolgoi Environmental Officers for aspects which may require environmental protection</p>	LDPP	Land Disturbance Permit Procedure	

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Construction Phase ID	Topic/ Aspect	Applicability/ Activity	Control Description	New ID Ref	Documents	Comment/Justification for removal or revision of management action
			including rare and very rare plants or other priority flora.			
FF11-b	Land take, earthworks and construction.	Rare plants - relocation	Prior to any relocation effort, a relocation plan will be drawn up and locations identified for the relocation of flora.	LDPP	Land Disturbance Permit Procedure	
FF11-c	Land take, earthworks and construction.	Rare plants - relocation	Rare and very rare plants within the Mine Licence Area that could be affected by construction (but which are not within any land disturbance envelope) will be demarcated to ensure no unintentional disturbance occurs.	LDPP	Land Disturbance Permit Procedure	
FF11-d	Land take, earthworks and construction.	Rare plants - relocation	Weed Control Management, as outlined in the interim rehabilitation management plan, will be implemented.	RP	Rehabilitation Procedure	Note that GBC confirmed in email of 17 April 2013, that: (i) we agree that removal of mention of these mitigation actions from high-level documents (in the most part to plans and policies) is commensurate with their relatively low importance; and (ii) we do not believe that even complete loss of these mitigation actions, should it take place, would result in high or critical risks to priority biodiversity features.
FF11-e	Land take, earthworks and construction.	Rare plants - relocation	Herbicides will not be used unless the appropriate approvals have been obtained from the applicable Mongolian authorities. Wherever possible the use of herbicides will be minimised.	RP	Rehabilitation Procedure	
FF11-f	Land take, earthworks and construction.	Rare plants - relocation	There will be no new quarries constructed by Oyu Tolgoi in the "pristine" or "limited use" zones of the SGSPA (South Gobi Strictly Protected Area).	LDPP	Land Disturbance Permit Procedure	



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