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| Title | Demonstrate and apply knowledge of the use of water at an a surface extraction extractive site | | |
| Level | 4 | Credits | 7 |

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| Purpose | People credited with this unit standard are able to demonstrate knowledge of: the consent conditions and the water management system for a surface extraction <u>an extractive</u> site; and the operate operation and maintain maintenance systems relating to water use at a surface extraction <u>an extractive</u> site. |
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| Classification | Extractive Industries > Surface Extraction <u>Extractive Industries Management</u> |
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| Available grade | Achieved |
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Guidance Information
Explanatory notes

- Performance of the outcomes of this unit standard must comply with the following: Resource Management Act 1991; [New Zealand Transport Agency Specifications—Materials \(M Series\), 1981 to 2010 and their amendments.](#)
- Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- Definition
Company procedures mean the documented methods for performing work activities and include health and safety, operational, environmental, and quality management requirements. They may refer to legislation, regulations, guidelines, standard operating procedures, manuals, codes of practice, or policy statements.
- This unit standard is intended for, but is not limited to, workplace assessment.

Outcomes and performance criteria~~evidence requirements~~

Outcome 1

Demonstrate knowledge of ~~the~~ consent conditions and the water management system for a ~~surface extraction~~extractive site.

Performance criteria

Evidence requirements

1.1 Requirements of the consent conditions in relation to the use of water are explained ~~in terms of company procedures.~~

Range may include but is not limited to – water quantities, water quality at discharge, catchment water runoff, storm water, water uptake.

1.2 Site surface control, runoff, and diversion to treatment system management are described in accordance with ~~company procedures and~~ resource consent.

Range may include but is not limited to – water tables, sumps, culverts, channels, pumps, settling ponds.

1.3 The process of treating and discharging wash and surface runoff water is described in accordance with ~~company procedures and~~ resource consent.

Range may include but is not limited to – settling ponds, safety fencing, signage, weirs, ~~water races open channels~~, treatment plant, pumps, flocculent material, filters, particle settlement, sampling, testing, reporting.

1.4 The process of containment, uplifting, and disposal of silt particles and fines is described in accordance with company procedures and resource consent.

Range may include but is not limited to – tip disposal, landscaping, mixing, spreading, cleaning out settling ponds.

~~1.5 The safety systems relating to water use and water management are described in accordance with company procedures.~~

~~Range may include but is not limited to – risk assessments, warning signs, gates and fencing, guarding, alarms, fire fighting, water isolation, power isolation procedures.~~

Outcome 2

~~Operate~~ Demonstrate knowledge of the operation and maintenance ~~in~~ systems relating to water use at an surface extraction ~~extractive~~ site.

Performance criteria**Evidence requirements**

~~2.1 Disposal of silt particles and fines is carried out described in accordance with company procedures.~~

~~2.21~~ Water system maintenance and cleaning is ~~carried out~~ described in accordance with company procedures.

Range may include but is not limited to – water tables, sumps, culverts, channels, pumps, settling ponds, drain holes, pipes, valves, ~~pigs~~, dams, bulk heads.

~~2.32~~ Issues and hazards ~~Hazards and risks are described and encountered are methods for their~~ elimination or control ~~are explained~~ in accordance with company procedures.

Range may include but is not limited to – preparation for extreme weather events, trigger action response plans (TARPs), management plans, principal hazard management plans (PHMPs), (tips, ponds and voids).

~~2.43~~ Water Monitoring and reporting of water use and the water management system are ~~monitored and reported~~ described in accordance with company procedures.

~~2.54~~ Documentation related to water use is ~~completed~~ explained in accordance with company procedures.

2.5 The safety systems relating to water use and water management are described in accordance with company procedures.

Range may include but is not limited to – risk assessments, warning signs, gates and fencing, guarding, alarms, fire fighting, water isolation, power isolation procedures.

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| Replacement information | This unit standard replaced unit standard 8912. |
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| Planned review date | 31 December 2019 <u>2022</u> |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
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| Registration | 1 | 27 January 2005 | 31 December 2017 |
| Rollover and Revision | 2 | 16 July 2010 | 31 December 2017 |
| Review | 3 | 18 June 2015 | N/A <u>31 December 2019</u> |
| <u>Review</u> | <u>4</u> | | <u>N/A</u> |

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| Consent and Moderation Requirements (CMR) reference | 0114 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

~~Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.~~

~~Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.~~

~~Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.~~

~~Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.~~

Comments on this unit standard

~~Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.~~

~~Please contact the NZ Motor Industry Training Organisation (Incorporated) (MITO) info@mito.org.nz if you wish to suggest changes to the content of this unit standard.~~