Department of Environment and Resource Management

CNS 194 21

Registration Certificate

Environmental Protection Act 1994

Registration Certificate

No: ENRE00805108

This registration certificate is issued by the administering authority and is a replacement document for the original approval issued on: 28-JUN-1996.

The anniversary day for the purposes of the Annual Return remains: 22-JUL.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activity listed below at the following place; subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-

Paul William Jennings
T/A Paul William Jennings
PO Box 600
MAREEBA QLD 4880

Development Approval:- FN0058

Place:-

No fixed place. The activity is a mobile and temporary activity as defined in Schedule 4 of the Environmental Protection Act 1994.

Located at:-

Various locations throughout the State of Queensland.

Registered Activity: -

ERA 57 Regulated waste transport Threshold 2(a) - transporting regulated waste, other than tyres, in 1 to 5 vehicles

Department of Environment and Resource Management
www.derm.qld.gov.au ABN 46 640 294 485

Queensland Government

Chris Buckingham
Delegate
Department of Environment and Resource Management
Environmental Protection Act 1994

12-SEP-2011

ERA 57 — Regulated waste transport

This code of environmental compliance (code) has been made under section Schedule 3 of the Environmental Protection Regulation 2008. *It contains the standard environmental conditions approved by the Minister, under section 549(2) of the* Environmental Protection Act 1994, *for carrying out the aspect of the environmentally relevant activity (ERA) specified in section 2 of this code.*

Code of environmental compliance for certain aspects* of regulated waste transport (ERA 57)

Version 3

* This code only applies to the aspects of the ERA that meet with the criteria in section 2 of this code.

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1. Introduction

The Department of Environment and Resource Management (DERM), formerly the Environmental Protection Agency (EPA), has introduced an improved environmental compliance framework for environmentally relevant activities (ERAs) with a relatively low risk of environmental impact by introducing codes of environmental compliance (codes) that set out standard environmental conditions. Codes are appropriate for those activities that can achieve a good level of environmental protection through established practices and compliance with standard environmental conditions.

The codes also include advisory notes to help operators understand the condition or measures that may be taken to ensure compliance. The advisory notes are a guide only and do not limit the range of measures that may be taken to comply with a condition.

This use of codes simplifies and speeds up environmental approvals for the businesses involved, while retaining appropriate standards of environmental protection and performance.

The Minister responsible for the *Environmental Protection Act 1994* (EP Act), pursuant to section 549 of the EP Act, has approved the standard environmental conditions contained in this code. Approved codes are listed in Schedule 3 of the *Environmental Protection Regulation 2008* (EP Reg).

2. Scope of the code

This code applies to ERA 57 — Regulated waste transport, where the operation of the ERA will comply with all the criteria outlined in the following table:

Criteria
Regulated waste is transported by road vehicles only (not by train, boat, aircraft, pipeline or other means).

Where the operation of a particular ERA will not meet the above criteria, this code does not apply and a development approval is required to undertake the ERA.

The ERA — Regulated waste transport, is defined in Schedule 2 of the EP Reg as:

"ERA 57. Regulated waste transport consists of —

a) transporting on a non-commercial basis 250kg or more of regulated waste in a vehicle; or

b) transporting on a commercial basis any quantity of regulated waste in a vehicle.

3. When the code takes effect

This code applies immediately to all operators of ERA 57 (that meet the criteria in section 2 of this code) who commenced activities on or after 1 July 2006.

Operators who were carrying out ERA 57 under a development approval before 1 July 2006, and continued to carry out the activity had a 12 month transitional period to ensure their operations complied with the code. The code became effective for those operators on 1 July 2007.

4. Enforcement of the code

This code contains standard environmental conditions for carrying out the aspects of ERA 57 that meet the criteria outlined in section 2 of this code. Failure to comply with the conditions is an offence under the EP Act and penalties apply. Enforcement Guidelines published by the DERM are available at www.derm.qld.gov.au.

5. Other requirements

In addition to the conditions in this code, a person carrying out ERA 57 must comply with other requirements of the EP Act and any other relevant Commonwealth, State or local government legislative requirements. Without limiting statutory requirements that may apply, some additional obligations under the EP Act include:

- holding a "registration certificate" issued by DERM under section 73F; and
- taking all reasonable and practicable measures to prevent or minimise environmental harm. This is referred to as the "general environmental duty".

It is the operator's responsibility to obtain any other approvals before carrying out the activity. For example, under section 369 of the EP Act, a person must not, for fee or reward, perform waste management works in a local government area other than under a written contract or written approval from the local government.

6. Amendment of this code

The code may be amended from time to time by gazette notice advising that the Minister has approved new conditions. Proposed changes to the standard environmental conditions, other than changes to correct a clerical error, will be made in consultation with stakeholders. Where there is a significant change to the code, DERM will notify persons affected by the change.

Version 2 did not amended any standard environmental conditions. Minor amendments were made to reflect the new description of the ERA as it appears in Schedule 2 of the EP Reg.

Version 3 contains a number of minor amendments that update references to Department names, contact details for obtaining publications and more recent versions of standards referred to in the advisory notes, It does not amend any standard environmental conditions.

Version 3 of the code has also been amended to reflect the change in the Department name that took place on 26 March 2009. A reference to the EPA in the standard conditions is to be taken to be a reference to DERM.

7. Further information or enquiries

Further information is available at www.derm.qld.gov.au or by contacting a regional office. General enquiries or suggestions for future amendments to the code should be directed to the Ecoaccess Customer Service Unit on telephone 1300 130 372 or by email at: eco.access@derm.qld.gov.au.

8. Standard environmental conditions and advisory notes

The following tables list groups of standard environmental conditions that apply to different aspects of regulated waste transport. Table 8.1 contains a general set of conditions that apply to all activities covered by this code. Advisory notes appear beside the conditions to provide guidance on compliance.

Depending on the type of vehicle used, and the nature of waste transported, additional standard environmental conditions as specified in Tables 8.2 to 8.8 (see below) may also apply. For example, if an activity involves the transport of asbestos in a rigid vehicle, Tables 8.1, 8.2 and 8.6 will apply.

Table 8.2 — Asbestos conditions.
Table 8.3 — Lead conditions.
Table 8.4 — Clinical and related waste conditions.
Table 8.5 — Polychlorinated biphenyl (PCB) conditions.
Table 8.6 — Rigid vehicle conditions.
Table 8.7 — Road tank vehicle conditions.
Table 8.8 — Operating 36 or more vehicles.

Table 8.1 General conditions

Conditions applying to all regulated waste transport activities operating under this code.

Standard Environmental Conditions	Advisory Notes
Condition 1 – Vehicle details For new operators — details of all vehicles used to transport regulated waste must be provided to the EPA before commencing the activity.	This information may be provided to DERM by completing and submitting the *Details of regulated waste vehicles* form. This is available from the DERM website or by contacting the Ecoaccess Customer Service Unit on 1300 130 372.
Condition 2 – Change of details notification For existing operators — if any vehicle registration details change, or any vehicles are added to or removed from the fleet of vehicles used to transport regulated waste, details of these changes must be provided to the EPA: a) as soon as practicable after the changes occur; or b) if transporting tyres — prior to each anniversary day (see section 9); or c) if transporting other regulated wastes — when paying the annual fee to the EPA for the registration certificate.	For operators transporting tyres, the *Details of regulated waste vehicles* form mentioned in the advisory note for condition 1 may be used for providing details of changes. For operators transporting other regulated wastes, an annual notice (including the *Details of regulated waste vehicles* form) may be sent to the operator when the registration certificate is due for renewal.
Condition 3 – Incompatible wastes Incompatible wastes must not be: a) placed in the same container; or b) transported in such a way that mixing may occur.	In general, wastes are incompatible if they are likely to increase the risk to human health and/or the environment when mixed or brought into contact with each other e.g. acids and alkalis and mixing some solid wastes with liquid wastes. If a waste is classified as a dangerous good, the *Australian Code for the Transport of Dangerous Goods by Road and Rail*, 7th edition, (ADG Code), or more recent versions should also be observed.
Condition 4 – Design and compatibility Regulated waste must only be transported in suitably designed vehicles, tanks, containers or secondary containers that are appropriate for containing the waste being transported.	Design should take into account at least the following matters: • the relevant design requirements prescribed in Schedule 8 of the *Environmental Protection (Waste Management) Regulation 2000* (see Appendix 1 of this code); • the corrosive nature of the waste being transported (e.g. acid waste must be transported in acid resistant containers); • the physical state of the waste (e.g. liquids should only be transported in drums, tanks or tankers); • the requirements outlined in the ADG Code; and • any relevant Australian Standards.

Standard Environmental Conditions	Advisory Notes
Condition 5 – Maintenance and cleaning All vehicles, tanks, containers and secondary containers used to transport regulated waste: a) must be maintained in a good condition at all times to prevent any spillage or leakage of regulated waste or other contaminants; and b) kept free of regulated waste residues at all times when not in use.	Regular inspections, cleaning and maintenance programs should be documented and implemented. For example, tankers and tanks used for transporting liquid wastes should have appropriate integrity tests conducted at regular intervals. The operator will also need to comply with any workplace health and safety requirements in relation to this matter. Contact the Department of Justice and Attorney-General (Division of Workplace Health and Safety Queensland) for advice on telephone 1300 369 915.
Condition 6 – Partitioning of load A solid impervious partition must be provided to separate the load compartment/area of the regulated waste transport vehicle from the driver's compartment.	The partition will need to be of suitable design and, construction to prevent the load characteristics from affecting its performance and prevent wastes from entering the driver's compartment.
Condition 7 – Disposal Regulated waste must not be removed or released from any vehicle other than at a facility that can lawfully receive the regulated waste.	Check with the operator of the receiving facility or DERM to ensure that the receiving facility can lawfully accept the regulated waste.
Condition 8 – Prevention of spillage Regulated waste must not leak or spill from the vehicle.	Adequate containment devices (e.g. spill trays or sumps) that are inspected and cleaned regularly should be fitted to prevent spills from leaving the vehicle.
Condition 9 – Clean up of spills Notwithstanding condition 8, any leakage or spillage of regulated wastes must be contained immediately, recovered and disposed of to a facility that can lawfully accept the waste.	Any leakages or spillages should be contained, recovered and disposed of appropriately, not washed into the stormwater system, waters or onto the ground.
Condition 10 – Spill kit An appropriate spill kit, personal protective equipment and relevant instructions for the management of the regulated wastes transported must be maintained and kept in each vehicle.	A designated storage area within or on the vehicle and easily accessible in an emergency should be provided for this purpose.
Condition 11 – Notification of spills (interstate) If operating interstate, any spillage, leak, escape or other loss of regulated waste from the vehicle must be reported as soon as practicable to the relevant regulatory agency of the State or Territory in which the vehicle is travelling when the incident occurs.	Details for the relevant agencies should be kept in the vehicle, or be readily available through communication with the operator's head office, or operations base.

Standard Environmental Conditions	Advisory Notes
Condition 12 – Notification of spills (Queensland) When operating in Queensland, any release of contaminants not in accordance with the conditions of this code must be reported by telephone to the EPA's Pollution Hotline or district office located in the area where the release occurred. Any such release must be reported as soon as practicable, but no later than 24 hours (depending on the level of risk to the environment), after becoming aware of the release.	The DERM may need to respond quickly to some spills that have the potential to cause environmental harm. Priority should be given to notifying the DERM of these spills immediately after they occur. The Pollution Hotline number is 1300 130 372.
Condition 13 – Information about spills A written notice detailing the following information must be provided to the EPA within 14 days of any advice provided in accordance with condition 12: a) the name of the operator, including the operator's registration certificate number; b) the name and telephone number of a designated contact person; c) substance and quantity released; d) vehicle and vehicle registration details; e) person/s involved (driver and any others); f) the location and time of the release; g) the suspected cause of the release; h) a description of the effects of the release; i) the results of any sampling performed in relation to the release; j) actions taken to mitigate the risk or extent of environmental harm caused by the release; k) the success of any actions taken to mitigate the risk or extent of environmental harm; and l) proposed actions to prevent a recurrence of the release.	This written advice should be provided to the DERM district office located in the area where the release occurred.
Condition 14 – Insurance All vehicles used to transport regulated wastes (that are not classified as dangerous goods, or as a placard load of dangerous goods), must be covered by a policy of insurance or other form of indemnity, for a sum that is not less than $100,000, in respect of: a) personal injury, death, property damage and other damage (except consequential economic loss) arising out of fire, explosion, leakage or spillage of dangerous goods in, on or from the vehicle or a container on the vehicle; and b) costs incurred by or on behalf of a Commonwealth, State or Territory government authority in a clean-up resulting from any event of the kind referred to in subparagraph a) of this condition.	If the regulated waste is classified as a placard load of dangerous goods, consult with the Dangerous Goods Unit in the Department of Transport and Main Roads and the ADG Code regarding any additional levels of insurance that may be required.

Standard Environmental Conditions	Advisory Notes
Condition 15 – Records All records required by this code must be kept for 5 years and be made available to an authorised officer of the EPA when requested.	Records should verify the provision of training programs and schedules of routine inspections.
Condition 16 – Waste records A record of all regulated waste (excluding trackable waste) must be kept detailing the following information for every load of waste transported: a) date of pickup of waste; b) description of waste; c) quantity of waste; d) origin of the waste; and e) destination of the waste.	Trackable wastes, as listed in Schedule 1 of the *Environmental Protection (Waste Management) Regulation 2000*, are covered by recording requirements in that Regulation instead of this condition. The regulation is available for viewing at www.legislation.qld.gov.au. Recording requirements for trackable wastes (under the waste tracking system established under the above Regulation) are similar to this condition.
Condition 17 – Documentation At all times, a copy of: a) the registration certificate issued by the EPA for regulated waste transport activities; and b) the appropriate emergency guides in relation to the waste transported must be carried in the cabin of each vehicle used to transport regulated waste and when requested, be presented to an authorised officer of the EPA or relevant regulatory agency of the State or Territory in which the vehicle is travelling.	Standards Australia publish numerous guides, including: • *HB 76-2004 Dangerous Goods – Initial emergency response guide; and* • emergency procedure guides (AS1678 series); which are available from SAI Global Business Publishing [1]. The ADG Code may require additional documents to be carried if the regulated waste is also classified as a dangerous good.
Condition 18 – Training All vehicle drivers must: a) have access to a copy of this code in the vehicle, or through direct communication with the vehicle depot or operations base; and b) be trained in the requirements of this code, including the use of all equipment and procedures necessary to comply with the conditions of this code, and document all training undertaken.	A copy of this code of environmental compliance should be available for reference at a vehicle depot, operations base or place where the vehicle is garaged. If permanent communication is not available to someone with this code, a copy of this code should be kept in the cabin of the vehicle.
Condition 19 – Complaint response The following details must be recorded: a) time, date, name and contact details of the complainant; b) reasons for the complaint; c) any investigations undertaken; d) conclusions formed; and e) any actions taken.	This information should be made available to DERM on request. If the complainant does not provide their name and contact details, record this as an anonymous complaint.

[1] SAI Global can be contacted on 131 242 or via their website www.saiglobal.com/shop.

Table 8.2 Asbestos conditions

Additional conditions applying to the transport of asbestos waste under this code.

Standard Environmental Conditions	Advisory Notes
Condition 20 – Asbestos containment All asbestos transported must be: a) double bagged and sealed in heavy-duty polythene bags (minimum 200 μm thickness); or b) contained in sealed drums or bins that are lined with heavy-duty plastic (minimum 200 μm thickness); or c) where the volume or size of asbestos waste (e.g. large asbestos cement sheets) is greater than the volume or size of a bag, drum or bin: i) for friable asbestos waste, sealed in double lined heavy-duty plastic sheeting (minimum 200 μm thickness) prior to being placed into a waste skip, vehicle tray or similar container; or ii) for non-friable asbestos waste, kept damp and contained in a waste skip, vehicle tray or similar container that has been double lined with heavy duty plastic sheeting (minimum 200 μm thickness) and then completely sealed with the plastic sheeting and adhesive tape.	Refer to the *Workplace Health and Safety Act 1995 (Qld)* and *Workplace Health and Safety Regulation 2008 (Qld)* for any additional requirements that may apply. These are available from the Office of the Queensland Parliamentary Counsel website www.legislation.qld.gov.au. In addition, the requirements of the National Occupational Health and Safety Commission's (NOHSC's) *Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)]* or the *Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)] or* any subsequent versions, may also apply. These are available on the Safe Work Australia website www.safeworkaustralia.gov.au. Additional requirements may apply under the ADG Code.
Condition 21 – Asbestos handling All asbestos transported must be: a) labelled with a warning statement to indicate the presence of asbestos and that dust creation and inhalation needs to be avoided; b) securely loaded and stowed on the vehicle during transit in such a way that does not cause the packaging to rupture; c) off loaded carefully to prevent the packaging from rupturing; and d) repackaged immediately if rupturing of the packaging does occur.	The NOHSC's *Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)] provides the following example of a warning statement which might be used:* "Caution – Asbestos Do not damage or open bag Do not inhale dust Cancer and lung disease hazard" If repackaging is required due to rupturing, workplace health and safety requirements will apply. Contact the Department of Justice and Attorney-General (Division of Workplace Health and Safety Queensland) for advice on 1300 369 915.

Table 8.3 Lead conditions

Additional conditions applying to the transport of particulate lead waste under this code.

Standard Environmental Conditions	Advisory Notes
Condition 22 – Lead All particulate lead waste must be: a) double bagged and sealed in heavy duty polythene bags (minimum 200 μm thickness), and placed in containers on the vehicle; b) labelled to indicate the presence of lead and with appropriate lead risk and safety phrases (see definitions "risk phrase" and "safety phrase" in section 9 of this code); c) securely loaded and stowed on the vehicle during transit in such a way that does not cause the packaging to rupture; d) off loaded carefully to prevent the packaging from rupturing; and e) repackaged immediately if rupturing of the packaging does occur.	Particulate lead waste is waste that is capable of becoming airborne or unable to be easily recovered if a spill occurs during transport. Examples of particulate lead wastes include waste from foundry filters and lead based paint residues. Please refer to the *Workplace Health and Safety Regulation 2008 (Qld)* (or any subsequent versions) for any additional requirements that may apply. If the lead is a dangerous good, additional requirements may apply under the ADG Code.

Table 8.4 Clinical and related waste conditions

Additional conditions applying to the transport of clinical and related waste under this code.

Standard Environmental Conditions	Advisory Notes
Condition 23 – Vehicle compartment All clinical and related wastes must be transported in a fully enclosed load compartment of a vehicle that: a) is bunded or otherwise designed to contain any spills and leaks; b) lockable; and c) has internal surfaces which are rigid and seamless to facilitate cleaning and disinfection.	Refer to Appendix 1 of this code for specific design rules as required by the *Environmental Protection (Waste Management) Regulation 2000*. For interstate transport, refer to Australian Standard *3816:1998 — Management of Clinical and Related Waste* (or subsequent versions) for any additional requirements that may apply. For radioactive wastes, contact the Queensland Health Radiation Health Unit on (07) 3328 9987 for any licensing requirements that may apply under the *Radiation Safety Act 1999*. For wastes also classified as dangerous goods, refer to the ADG Code.
Condition 24 – Security Vehicles and load compartments must be locked when unattended.	This is required to prevent unauthorised access.

Standard Environmental Conditions	Advisory Notes
Condition 25 – Secondary containment All clinical and related wastes must be provided with rigid secondary containment during transport.	Secondary containment may be achieved if the waste is fully contained in: • appropriate bags that comply with the design rules in Appendix 1 of this code (primary containment); and • a rigid-walled waste container that complies with the design rules in Appendix 1 of this code (secondary containment). Additional requirements may apply if the waste is also classified as a dangerous good (refer to the Dangerous Goods Unit in the Department of Transport and Main Roads or other relevant authority in the State or Territory in which the vehicle is travelling).
Condition 26 – Cleaning and disinfection Secondary containers used for the transportation of clinical and related wastes must be effectively cleaned and disinfected before reuse.	The local council should be consulted prior to the disposal of any effluent to sewer. The operator will also need to comply with any workplace health and safety requirements in relation to this matter. Contact the Department of Justice and Attorney-General (Division of Workplace Health & Safety Queensland) for advice on 1300 369 915.
Condition 27 – Compaction systems Clinical and related wastes must not be transported in vehicles fitted with compaction systems.	Compaction may cause rupturing of containers and leakage of clinical and related wastes. These wastes need to be transported in totally enclosed, intact, and leak proof containers for treatment and disposal in accordance with the *Environmental Protection (Waste Management) Regulation 2000*.
Condition 28 – Odour nuisance Noxious or offensive odours must not be released from any vehicle transporting clinical or related wastes.	Refrigeration may be necessary to comply with this condition. When determining if the waste should be refrigerated during transport, consideration should be given to any Queensland Health and workplace health & safety requirements and other factors such as: • specific type of clinical and related waste being transported; • time held in transit; • temperature; • distance travelled; and • state of the waste when received.

Table 8.5 Polychlorinated biphenyl (PCB) conditions

Additional conditions applying to the transport of PCB waste under this code.

Standard Environmental Conditions	Advisory Notes
Condition 29 – PCB management The transport of wastes containing PCBs that are also classified as scheduled wastes under the Australian and New Zealand Environment and Conservation Council (ANZECC) *Polychlorinated Biphenyls Management Plan – July 1999* must comply with the requirements of that Plan.	The *Polychlorinated Biphenyls Management Plan – July 1999* includes the requirement for: • PCBs to be transported in accordance with the ADG Code; and • the development of emergency containment and clean up procedures for the accidental release of PCBs into the environment. A copy of the ANZECC *Polychlorinated Biphenyls Management Plan* is available from the Commonwealth Department of the Environment, Water, Heritage and the Arts website www.environment.gov.au.
Condition 30 – PCB trained personnel Personnel suitably trained in methods of handling and containing spilled PCBs must accompany any vehicle transporting waste containing PCBs.	As required by condition 18, details of training provided should be documented to demonstrate compliance with this condition.

Table 8.6 Rigid vehicle conditions

Additional conditions applying to the transport of regulated waste in rigid vehicles and trailers under this code.

Standard Environmental Conditions	Advisory Notes
Condition 31 – Vehicle tray When transporting regulated waste in rigid vehicles and trailers, the tray of the vehicles must be: a) constructed of an impervious material; b) maintained in a sound condition; and c) designed to contain any spills on the tray.	Trays should be inspected regularly and any corrosion or other defect should be attended to so that the integrity of the tray is maintained. Any containment system or sump should be designed to facilitate the collection and removal of spilt waste (e.g. by pumping liquids or shovelling solids).
Condition 32 – Covers When transporting regulated waste in rigid vehicles and trailers, any waste not fully contained within weatherproof packages must be covered during transport to contain the load and protect it from wind and rain.	The covers should be designed to prevent particulate matter becoming airborne and to prevent ingress of rain into the waste, which may result in dangerous reactions, or the runoff of contaminants.

Standard Environmental Conditions	Advisory Notes
Condition 33 – Securing of load When transporting regulated waste in rigid vehicles and trailers, all regulated waste containers must be: a) mounted securely to the vehicle; and b) contained within the tray of the vehicle.	All loads should be restrained in accordance with the requirements of the National Transport Commission and Road & Traffic Authority NSW; *Load Restraint Guide, 2nd Edition* (or subsequent versions). The guide is available from the National Transport Commission website at www.ntc.gov.au Additional requirements may apply under the ADG Code if the waste is classified as a dangerous good.
Condition 34 – Containment When transporting regulated waste in rigid vehicles and trailers, the vehicle must be fitted with: a) adequate cargo securing devices; and b) in the case of vehicles transporting packaged regulated waste (see definitions in section 9 of this code), rigid sides or gates that contain the load while in transit.	These must be appropriate for the type of containers or cargo being transported and suitable to withstand the rigours of transport and heavy braking.
Condition 35 – Height of load When transporting packaged regulated waste in rigid vehicles and trailers, the top of any container must not protrude above the sides or gates of the vehicle by more than 30% of the height of the container.	This is intended to prevent toppling of the load if the primary restraint fails.

Table 8.7 Road tank vehicle conditions

Additional conditions applying to the transport of liquescent and dry particulate regulated waste in road tank vehicles under this code.

Standard Environmental Conditions	Advisory Notes
Condition 36 – Vehicle stability Road tank vehicles must be constructed to minimise instability and risk of rollover.	As a guide, refer to Australian Standard 2809.1—2008 *Road Tank Vehicles for Dangerous Goods – General requirements for all road tank vehicles* (or subsequent versions). This provides information about design features requiring particular attention, e.g. centre of gravity, tyre track, suspension, effect of prime mover, steering geometry and axle alignment, tyres and brakes.

Standard Environmental Conditions	Advisory Notes
Condition 37 – Roll-over protection Road tank vehicles must be provided with roll-over protection to protect all tanks, components and fittings on the upper and side surfaces of the tank in the event of the vehicle rolling over or becoming inverted.	As a guide, refer to the Australian Standard 2809 series. For example, this includes requirements for certain tanks to be fitted with roll-over protection with the following characteristics: • a guard in the form of inverted U-coamings, (the thickness of which depends on the type of tank and construction material, e.g. large-compartment made of low carbon steel, must not be less than 5mm in thickness); • any guard, dome or coaming shall project at least 25mm above the top of the fitting, which it protects.
Condition 38 – Transfer equipment Waste transfer equipment, including discharge point and pipe-work on road tank vehicles, must be: a) fitted to the vehicle so as to not extend beyond the outer body line of the vehicle; or b) designed to provide sufficient inherent resistance to damage; or c) provided with protection to prevent damage.	Transfer couplings should be located in a position on the tank(s) that will minimise the risk of the couplings being damaged or severed by an impact. For further information, refer to the Australian Standard 2809 series.
Condition 39 – Sampling points Road tank vehicles used for the transport of liquid regulated waste must have sampling points on the top of each compartment that are readily accessible for the purposes of a roadside inspection.	Where appropriate, additional sampling valves may need to be provided at the bottom of the compartments.
Condition 40 – Transfer hoses Regulated waste material must not leak or spill from waste transfer hoses to the ground while the road tank vehicle is in transit.	Waste transfer hoses should be cleared before disconnection and maintained in good condition so as to prevent spillage or leakage of regulated waste. The following are examples of how hoses can be transported to minimise the risk of spills: • carry them in spill proof compartments on the vehicle; • fit them with leak proof caps with captive chains; or • connect them end-to-end. In addition, the ADG Code may include the requirement for hose assemblies to be: • inspected at least monthly; and • hydrostatically tested at least yearly.

Standard Environmental Conditions	Advisory Notes
Condition 41 – Road clearance All tank filling and discharge points on road tank vehicles must have adequate ground clearance and be rigidly connected to the tank.	As a guide, refer to Australian Standard 2809.1:2008 — *Road Tank Vehicles for Dangerous Goods – General requirements* for all road tank vehicles (or subsequent versions), which includes the following requirements: • Tank filling and discharge connections should not extend lower than 40mm below the plane through the centre-line of the axles. • Tank components and protection devices should not be less than 250mm within 1 metre of any axle, or 350mm from any other location when the vehicle is unladen.
Condition 42 – Vacuum system All road tank vehicle vacuum pump systems must be fitted with operational: a) pressure and/or vacuum relief valves; and b) pump shut-off valves.	Testing of the system should be carried out regularly and the results recorded, including details of any repairs and/or maintenance conducted.
Condition 43 – Volume measurement Where regulated waste is transported in road tank vehicles, the tank capacity must not be exceeded and a mechanism for volume measurement that is readily visible and calibrated to show maximum volume of waste in the tank must be fitted to each tank.	Sight glasses are an example of a mechanism for volume measurement. Depending on the type of regulated waste, sufficient ullage space should be provided (e.g. 10% or more of the tank capacity) to allow for thermal expansion of the waste during transport.
Condition 44 – Manholes Where regulated waste is transported in road tank vehicles, manholes of sufficient size to allow internal inspection, cleaning and maintenance of the tanks must be fitted.	As a guide, refer to the Australian Standard 2809 series, which specifies a minimum diameter of 400mm for certain types of cargo. The operator will also need to comply with any workplace health and safety requirements in relation to this matter. Contact the Department of Justice and Attorney-General (Division of Workplace Health and Safety Queensland) for advice on 1300 369 915 or via their website www.deir.qld.gov.au/workplace/.
Condition 45 – Outlets All filling and discharge points of road tank vehicles must be fitted with suitable leak proof caps and captive chains when regulated wastes are in transit.	Road conditions, vibration and heavy braking are some considerations that should be taken into account when determining what is suitable.

Standard Environmental Conditions	Advisory Notes
Condition 46 – Rear impact protection Each road tank vehicle must be provided with an effective bumper and/or barrier system to protect the tank and fittings from rear impact.	As a guide, see Australian Standard 2809.1:2008 — *Road Tank Vehicles for Dangerous Goods – General requirements* for all road tank vehicles (or subsequent versions). This has a requirement for rear impact protection to be fitted so that: • the inner surface is not less than 150mm from the tank or any component or fitting; • the width is not less than the width of the tank; and • it is attached to the sub-frame or the chassis of the vehicle or trailer.

Table 8.8 Operating 36 or more vehicles.

Additional conditions applying to an activity that involves the operation of 36 or more regulated waste transport vehicles (i.e. ERA 57(2)(c)) under this code.

Standard Environmental Conditions	Advisory Notes
Condition 47 – Operational management system When an activity involves the operation of 36 or more regulated waste transport vehicles, an Operational Management System (OMS) must be developed for implementation by the person carrying out the activity. The OMS must be implemented on commencement of the activity and provide for: a) identification of actual and potential releases of all contaminants, their environmental impacts and the actions to be taken to prevent the likelihood of environmental harm; b) establishment and maintenance of procedures to identify the potential for accidents; c) activation of appropriate responses to emergency situations; d) training of staff to achieve awareness of the potential for environmental harm and competence in the application of preventative measures and emergency response procedures; and e) a review of, and continual improvement to, the overall environmental performance of the business operations.	The OMS documents do not need to be submitted to DERM, but should be kept at the head office address and any transport or operations depots. Staff should be suitably trained in and aware of the requirements and provisions of the OMS. When requested, a copy of the current version of the OMS should be provided to an authorised DERM officer for review when conducting a compliance inspection. Following an incident, DERM may ask the company to demonstrate how they complied with relevant provisions of the OMS. The company may be able to use the document to demonstrate compliance with their general environmental duty.

9. Definitions

Note: If a word or phrase is not defined it must be given the meaning it has under the EP Act or its subordinate legislation, as amended from time to time. If a word or phrase is not defined in this code or the EP Act or its subordinate legislation, it has its ordinary meaning.

Activity means the environmentally relevant activity, or aspect of the ERA to which this code relates.

ADG Code means the *Australian Code for the Transport of Dangerous Goods by Road and Rail*, 7th edition, or more recent versions as they become available. The ADG Code is available for purchase from Canprint — Telephone: (02) 6293 8383 or from the National Transport Commission website at www.ntc.gov.au

Anniversary day, for a registration certificate is defined in Schedule 4 of the EP Act.

Asbestos-containing material means any material, object, product or debris that contains asbestos.

Asbestos waste means all removed asbestos-containing materials and disposable items used during the asbestos removal work, such as plastic sheeting used for an enclosure or to cover surfaces in the asbestos work area, disposable coveralls, disposable respirators and rags used for cleaning etc.

Clinical waste means waste that has the potential to cause disease including, for example, the following:

a) animal waste;
b) discarded sharps;
c) human tissue waste; and
d) laboratory waste.

Code of environmental compliance means a code of environmental compliance approved or made under a regulation of the EP Act.

Environmentally relevant activity (ERA) means an activity prescribed by regulation as an ERA.

EPA means the Environmental Protection Agency or its successor.

Friable asbestos means asbestos-containing material which, when dry, is or may become crumbled, pulverised or reduced to powder by hand pressure.

Note: This may include asbestos containing materials that have been subjected to conditions, such as weathering, physical damage, water damage etc., that leave them in a state where they meet the above definition.

Incompatible wastes means wastes that are likely to interact and increase the risk to human health and/or the environment when mixed or brought into contact.

Liquescent waste means waste tending toward a liquid state; waste that is not spadeable.

Operator means the person carrying out the ERA.

Packaged regulated waste means regulated waste in a container with:

a) a capacity of not more than 450 litres; and
b) a nett mass of not more than 400 kilograms.

Registration certificate means a registration certificate given under section 73F of the EP Act to the operator of an ERA.

Regulated waste means waste that—

1. a) is commercial or industrial waste, whether or not it has been immobilised or treated; and
   b) is of a type, or contains a constituent of a type, mentioned in schedule 7.
2. Waste prescribed under subsection (1) includes—
   a) for an element—any chemical compound containing the element; and
   b) anything that contains residues of the waste.

Regulatory agency means the agency of a State or Territory that has responsibility for regulating the transport of regulated wastes in that State or Territory.

Related waste means waste that constitutes, or is contaminated with, chemicals, cytotoxic drugs, human body parts, pharmaceutical products or radioactive substances.

Release of a contaminant into the environment, includes:

a) to deposit, discharge, emit or disturb the contaminant;
b) to cause or allow the contaminant to be deposited, discharged, emitted or disturbed;
c) to allow the contaminant to escape; and
d) to fail to prevent the contaminant from escaping.

Rigid vehicle means a vehicle the load carrying area of which is fixed to the vehicle's chassis or frame (as defined in the ADG Code).

Risk phrase means a phrase stated in the National Occupational Health and Safety Commission's (NOHSC's) document entitled *National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]*, or more recent versions, that gives information about the substance's hazards.

Road tank vehicle means a truck, trailer or semi-trailer or unit in a road train, incorporating a tank, or having a tank or tanks mounted thereon, either permanently or temporarily (as defined in AS 2809.1–2008 — *Road Tank Vehicles for Dangerous Goods*).

Safety phrase means a phrase stated in National Occupational Health and Safety Commission's document entitled *National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]*, or more recent versions, that gives information about:

a) the safe use of the substance; or
b) the personal protective equipment for the substance.

Standard environmental conditions for a code of environmental compliance, means the standard environmental conditions approved for the ERA, or aspect of the ERA, under section 549 of the EP Act.

Ullage means a vapour space which is left above the liquid surface after filling, to permit a degree of thermal expansion of the liquid without loss of cargo (as defined in AS 2809.1–2008 — *Road Tank Vehicles for Dangerous Goods*)

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

Appendix 1 — Design rules

General rules applicable to rigid-walled waste containers and waste transport vehicles

It must be designed in a way that ensures:

a) it performs the intended function when used in accordance with the manufacturer's instructions; and
b) waste does not spill from it during usual usage or servicing; and
c) it is not adversely affected by environmental conditions, including, for example, heat, humidity or sunlight; and
d) it is not adversely affected by the cleaning procedures specified by the manufacturer.

The inner surfaces must be smooth, free of recesses and be able to be readily cleaned.

The inner surfaces must be designed to allow easy removal of waste.

If it has internal seams, the seams must be fully welded.

The following matters must be taken into account in designing it:

a) the type of waste to be collected, removed or conveyed;
b) the likelihood of abrasion by solid waste;
c) the likelihood of chemical attack;
d) the need to exclude rain or other liquid that may be likely to leach a contaminant from the waste.

It must be constructed of a material that will not undergo a change that impairs its life or performance when it comes into contact with waste.

If it is constructed from plastic, the plastic must be UV resistant for the container's life.

If it is a waste container or waste transport compartment within a waste transport vehicle, it must be constructed:

a) of a durable material that is capable of withstanding normal operating conditions; and
b) in a way that ensures it minimises the entry of insects and vermin.

If it is a container designed for use to transport waste, it must be designed in a way that provides a permanent way of securing the lid so that waste is not released during transportation.

Specific design principles for waste transport vehicles

If the vehicle is to be used for transporting waste in containers, the vehicle design must include a permanent method of securing the containers in an upright position.

If the vehicle incorporates a tanker body, the vehicle must be designed in a way that ensures:

a) each discharge point on the body is protected from possible damage; and
b) each discharge point is capable of being locked in the off position; and
c) it is fitted with signs detailing the direction and movement needed to shut the discharge and loading valves; and
d) effective covers are provided for all manholes; and
e) the manhole covers are capable of being secured at all times when the manholes are not being used; and
f) a storage area is provided for the vehicle's hoses.

Specific design principles for plastic bags used for clinical and related waste

It must have sufficient strength to safely contain the waste it is designed to hold.

It must be designed to allow for secure final closure when the bag is filled to a maximum of two-thirds of its capacity, or 6kg, whichever is the lesser.

It must not be designed with closure devices that have sharp protuberances, including, for example, staples.