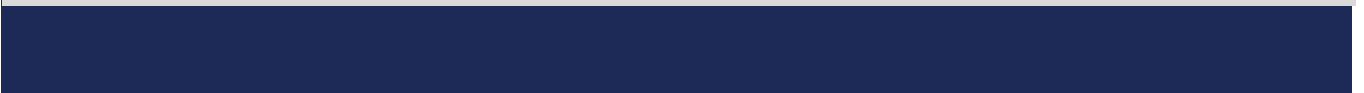


Appendix G

Environmental Risk Assessment



No.	Risk Description	Caused By	Consequence	Likelihood	Risk Rating	Existing Controls	Adequacy of Controls	Additional Controls and/or Actions	Consequence	Likelihood	Residual Risk Rating	Specialist Assessment Required?
1	Release of hazardous substances due to inappropriate storage of wastes	Chemical reaction of incompatible wastes within the Aldex Building whilst stored and handled. Inadequate waste classification, labelling, staff training and awareness.	Catastrophic	Possible	Extreme	Wastes will be segregated according to DG class and in accordance AS standards	Satisfactory	Employment of Industrial Chemist for QA/QC Inspections of incoming waste materials, and for designation and coordination of storage arrangements. All incoming consignments to be correctly classified and labelled upon site arrival. Manifest of all wastes to be maintained on site (identifying waste type, classification and quantities). Staff to be appropriately trained. Maintenance of low stock inventories (i.e. dispatched offsite once 'transportable' quantities are achieved following consolidation /final treatment).	Moderate	Unlikely	Moderate	Yes
2	Interaction with wastes currently stored on site and new waste streams to be brought to site	Incorrect storage and placement of wastes. Inadequate waste classification, labelling, staff training and awareness.	Major	Possible	High	QA and QC waste screening and handling. Trained staff.	Satisfactory	Employment of Industrial Chemist for QA/QC Inspections of incoming waste materials, and for designation and coordination of storage arrangements. Staff to be appropriately trained for new waste inputs, their storage requirements and incompatibilities. Refit in Aldex Building will have specific storage areas with appropriate signage.	Moderate	Unlikely	Moderate	Yes
3	Fire at the facility initiated by new wastes stored on site	Uncontrolled exothermic reaction of wastes.	Catastrophic	Possible	Extreme	Wastes will be segregated according to DG class and in accordance AS standards. QA and QC waste screening and handling. Staff training.	Satisfactory	New refit will have FRL internal and external walls. All wastes to be stored at appropriate separation distances. New fire sprinkler suppression system to be installed. Proposed 24/7 site manning. Staff to be appropriately trained for new waste inputs, their storage requirements and incompatibilities. Additional CCTV surveillance to be fitted. Maintenance of low stock inventories. Use of intrinsically-safe plant and equipment. No smoking permitted within or in the vicinity of the Aldex Building.	Major	Unlikely	High	Yes
4	Release of chemical to stormwater system	Surface water contact with stored wastes. Inadequate bunding. Poor spill response and clean up.	Moderate	Possible	High	New building will have bunding around perimeter and internal bunding to prevent surface water entering the building. Spill kits located throughout the site, including within the Aldex Building. Spill kits used by appropriately trained staff, and clean-up residues disposed of appropriately. Water quality monitoring and testing to continue. Stormwaters captured and contained on site are eiter reused onsite or discharged to Trade Waste.	Satisfactory	Nil Required	Low	Unlikely	Low	Yes

No.	Risk Description	Caused By	Consequence	Likelihood	Risk Rating	Existing Controls	Adequacy of Controls	Additional Controls and/or Actions	Consequence	Likelihood	Residual Risk Rating	Specialist Assessment Required?
5	Incorrect treatment of wastes during physio-chemical treatment	Incorrect treatment applied or incorrect classification of wastes	Moderate	Possible	High	QC appropriate for waste treatment process and waste tracking.	Satisfactory	Staff training and awareness. Full time chemist employed on site. Review of SOPs. Online monitoring instrumentation utilised and maintained to monitor treatment process (e.g. pH neutralisation). Routine QC sample assays performed to verify treatment performance.	Moderate	Unlikely	Moderate	Yes
6	Wastes stored inappropriate containers / packaging	Wastes incorrectly packaged at source.	Moderate	Possible	High	QC procedures for waste screening, classification, labelling and packaging condition.	Satisfactory	Inappropriate wastes immediately quarantined if not meeting declared classification, packaging condition and labelling expectations, and returned to source and not accepted	Moderate	Unlikely	Moderate	Yes
7	Air emissions generated from physio-chemical treatment	Chemical reaction causing air emissions during treatment or dust emissions	Moderate	Possible	High	Existing air emission controls in place. Active ventilation offtakes to be configured at potential dust sources and consolidation work areas. Routine compliance monitoring to continue.	Satisfactory	Air Quality Assessment to be undertaken. Retrofit of additional pollution control systems, if required.	Moderate	Unlikely	Moderate	Yes
8	Human health impacts due to additional waste brought to the Facility.	Off site emissions resulting in human health impacts.	Moderate	Possible	High	Operation of active ventilation and pollution control systems. Regular environmental compliance monitoring for current operations in accordance with EPL	Satisfactory	HHRA to be prepared to verify adequacy of proposed controls.	Moderate	Unlikely	Moderate	Yes
9	Impact to local road network from heavy vehicles	Additional traffic	Minor	Possible	Moderate	There will be no increase in waste tonnages therefore no increase in traffic movements. Approved traffic movement times (days of week and times of day) to remain unchanged. No vehicles to be parked on the public road network.	Satisfactory	TIA to be prepared. Nil required	Minor	Unlikely	Low	SEARS Requirement
10	Impact to local road network from light vehicles	Additional traffic	Minor	Possible	Moderate	There is no planned increase in employee numbers. Employment sustainability to be preserved.	Satisfactory	Nil Required	Minor	Unlikely	Low	SEARS Requirement
11	Negative impacts to threatened species	Removal of native vegetation or impacts to sensitive receivers (e.g. waterways)	Minor	Rare	Low	No requirement for removal of any vegetation. Existing stormwater system with detention pond. Discharge of contained stormwaters disposed of to Trade Waste (not to the environment).	Satisfactory	Nil Required	Low	Rare	Low	BDAR Waiver
12	Negative impact to items of indigenous heritage	Sub-surface disturbance	Major	Rare	Moderate	There is very limited disturbance to the subsurface. The site is currently developed (classified as 'highly disturbed') under hard stand.	Satisfactory	Nil Required	Minor	Rare	Low	No
13	Visual impacts to sensitive receivers to building rebuild and refit	Erection of new structures	Minor	Possible	Moderate	Aldex Building will be built largely within previous building envelope. Minor structural additions (awning) will be constructed at or below the existing building elevation. No direct line of sight to sensitive receivers.	Satisfactory	Nil Required	Minor	Unlikely	Low	No
14	Greenhouse gas emissions due to additional waste streams	Use of plant and machinery	Minor	Possible	Moderate	Plant and equipment maintained and operated in a proper and efficient manner.	Satisfactory	Nil Required	Minor	Unlikely	Low	Yes

No.	Risk Description	Caused By	Consequence	Likelihood	Risk Rating	Existing Controls	Adequacy of Controls	Additional Controls and/or Actions	Consequence	Likelihood	Residual Risk Rating	Specialist Assessment Required?
15	Social impacts to local community	Changes in operations resulting in impacts to amenity, access to services, environmental impacts etc.	Moderate	Possible	High	Footprint of existing infrastructure to remain. No additional waste quantities to be received at the site. Pollution control systems to continue to be operated and maintained. Employment base to be maintained.	Satisfactory	Consultation with local community groups and landholders. Complaints handling procedure in place, should any complaints be received.	Minor	Possible	Moderate	Yes
16	Noise impacts to sensitive receivers	Traffic movements on local road network outside of approved times	Low	Possible	Low	Traffic movements to be maintained in accordance with existing approvals. Noise compliance monitoring undertaken. No increase in operations or traffic. Plant and equipment operated and maintained in a proper and efficient manner.	Satisfactory	Nil Required	Minor	Unlikely	Low	SEARS Requirement