ACTIVITY	ASPECT	RISK	IMPACT	SYSTEM CONTROLS		Approved General Manager

Likelihood (L) 1 = Rare, 2 = Unlikely, 3 = Possible, 4 = Likely, 5 = Almost Certain				
	LOW [1-3] Acceptable - Manage by routine procedures	MODERATE [4-6] Insignificant – With identified controls fully	HIGH [8-12] Undesirable - Additional controls required to reduce risk	VERY HIGH [15- 25] Unacceptable - Do not start activity

Item No.	Activity / Job Step	Environmental Aspect	Risks (Undesirable Outcome)	Impact	Primary Risk Assessment			System Controls	Hierarchy of control applied							Residual Risk Assessment			Control Implementation	
					Likelihood	Consequence	Risk Score		Prevention	Minimization	Substitution	Reduce	Reuse	Recycle	Correct Disposal	Likelihood	Consequence	Risk Score	By Whom	What
1	Office Environment	Electricity	Excessive energy consumption	Waste generation	3	2	6	Efficient lighting system		x	x	x			x	1	2	2	All personnel	N/A buildings fitted with sensor lights
					3	2	6	Energy efficient equipment		x	x	x			x	2	2	4	All personnel	Energy Efficient globes
		Water	Excess consumption of Water	Natural resource use	3	2	6	Implement a 'water wise' office and monitor consumption		x	x	x			x	2	2	4	All personnel	
		Paper	Excess use of paper	Natural resource use	4	1	4	Reduce unnecessary printing. Double side print, black & white default setting	x	x	x	x	x	x	x	3	2	6	All personnel	Printers default to black/white printing
								Implement use of recycled paper (order through stationary supplier)		x	x	x	x	x	x					Stationary supplier provides recycled paper
								Internal electronic communication only			x	x		x						Internal communications via email/ Use of GoFormz instead of paper inspection checklists
								Recycling, introduce IT solution	x	x	x	x								Doubled sided printing default on all printers
		Vehicle Fleet	Energy use / Vehicle selection	Greenhouse gas & natural resource consumption	3	1	3	Alternative energy use, regular vehicle servicing/ maintenance; driving efficiency training	x	x	x	x				3	2	6	All personnel	
		Waste (Plastic wrapping, print toner, etc.)	Generation of waste	Reduced airspace in landfill, polutting water catchment	3	1	3	Waste Segregration Recycling / procurement		x	x	x	x	x	x	3	2	6	Office Admin	All sites have printer cartridge recycling
2.1	Chemical Blending	Discharge to Waterways	Hazardous Substance/Chemical Spill	Contamination of soil, surace water and ground water	3	3	9	Storage of Hazardous Chemicals Spill Kits MSDS Undercover bunded storage Surface Water Monitoring	x	x		x				1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin
2.2	Chemical Blending	Release to Land	Hazardous Substance/Chemical Spill	Contamination of soil	3	3	9	Storage of Hazardous Chemicals Spill Kits MSDS OEGAU-S-FO)xxx MSDS Register Bunding to Stored Chemicals Shed 1 (110%)	x	x		x				1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin
2.3	Chemical Blending	Discharge to Waterways	Chemical Spill due to Asset Failure	Contamination of soil, surace water and ground water	3	3	9	Storage of Hazardous Chemicals Spill Kits MSDS Bunding Undercover storage in shed	x	x		x				1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin
2.4	Chemical Blending	Waste Management	Fire/Explosion	Damage to premises, injury to personnel	3	3	9	Emergency Response Plan Emergency Response Evacuations Fire Extinguisher/Hose Reels Man-down alarm in Chemical Blending location	x	x		x				1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin
2.5	Chemical Blending	Hazardous Substances on site	Spill to ground afffecting flora & fauna	Ground contaimination, breach of EPA licence for project, Fines, Damage to corporate brand	3	3	9	All substances identifed during risk assessment process, Stored within bunded (120% capacity) and ventilated enclosure	x	x		x				1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin

3	Waste generated from OEG Supply Base	Waste Management	Contamination to Local Flora/Fauna	Inappropriate disposal of solid or liquid waste resulting in contamination	2	3	6	Disposal of waste in appropriate bins Wastes to be stored securely. Controlled wastes disposed of using waste contractor Vetting of waste carriers. All waste streams are securely stored in labelled cages/containers? All waste carriers licence are valid and on file?	x				x	x	x	1	3	3	All personnel	
4	Waste oil/hydrocarbon generated from equipment servicing & operations	Waste Management	Contamination to Local Flora/Fauna	Inappropriate disposal of solid or liquid waste resulting in contamination	2	3	6	All waste streams are securely stored in labelled IBC's/Drums/Bins/Containers? All waste carriers licencde are valid and on file? Label & store all liquid waste in containers in a compliant bunded area prior to offsite removal Managers/Supervisors in control of operational sites trained in Dangerous Goods	x							1	3	3	All personnel	
5	Storage and hanlding of hazardous chemicals/materials	Hazardous Materials	Fire/Explosion	Fire/Explosion	2	5	10	First Aid Kits Fire Extinguishers Fire Hoses Hazardous chemical risk assessments MSDS for all chemicals PPE - Chemical gloves/breathing masks Emergency Response Plan Fire Training Dangerous Goods Training	x							1	4	4	All personnel	Regular checking of First Aid Kits Annual Service of Fire Equipment MSDS for all chemicals brought to site PPE for all employees Emergency Drills (annual) Training as per Training Matrix
6	Air emisions generated during painting activity	Emissions to Air	Generation of Air Emission	Air emmision as a result of painting activities	2	1	2	Where possible use of Water Based paints will be used when painting CCU's	x	x						1	1	1	All personnel	
7	Use of compressors/pumps	Emissions to Air	Excessive noise	Exceed regulatory noise limits	2	1	2	Hearing protection regular maintenance of compressors/pumps	x							1	1	1	All personnel	
8	Use of hazardous chemicals/cleaning solvents used generating waste water from cleaning tanks/containers/Cargo Container Equipmenmt	Discharge to Waterways	Chemical/Hazardous Substance Spill	Contamination of soil, surace water and ground water	2	3	6	Optimise dosage of chemicals so they they use only quantities required Spills Kits MSDS Chemical storage Bunding to Chemicals/IBCs All waste water collected into IBC's collected by Contracted Waste Disposal Company (Tox/Cleanaway)								1	2	2	All personnel	PPE for all employees Maintenance as per Inspection & Audit Schedule
9	Storage and handling of fuel/hazardous substances	Storage and Management of Materials	Fire/Explosion	damage to premises, injury to personnel	2	5	10	Optimise dosage of chemicals so they they use only quantities required Spills Kits MSDS Chemical storage Bunding to Chemicals/IBCs All waste water collected into IBC's collected in IBCs and removed from site by Contracted Waste Disposal Company (Tox/Cleanaway)		x			x			1	5	5	All personnel	
10	Storage of DG & Haz substances	Storage and Management of Materials	Fire, hazardous substance spill	damage to premises, injury to personnel	3	3	9	DG & Haz substances to be stored in approved, ventilated and self bunded fire rated enclosures Sigange to be installed around enclosures, No smoking within 5m, enclosures to be loacted away form all potential sources of ignition	x		x	x				1	3	3	All personnel	
11	Asset Maintenance	General waste generation	Cardboard Plastic wrappings Gloves	Potential impact of land and water	1	4	4	Waste is collected and segregated onsite local araangements for waste removal specialists for re cycling, waste to be segregated within identified recepticles		x		x		x	x	1	3	3	All personnel	OEGAU-E-PROCD-002 Waste Management Procedure

12.1	Tank Washing	Hazardous Substances on site	Unknown hazardous substances on site	Unkown impact for flaura and fauna	2	3	6	SDS produced for substances brought to site prior to arrival. All substances clearly labelled, All substances risk asssessed hazardous chemical risk assessments and stored within bunded (110% capacity) and ventilated enclosure	x	x		x				1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin
12.2	Tank Washing	Storage and Management of Materials	Loss of fluids and oils to the envirnoment	Contamination of natural water course / contamination of ground	3	3	9	Designate an area for maintenance of all plant & equipment. Hydrocarbon spill kit to be maintained and located in same area. Emergency response plan developed and communicated to all personnel. Personnel to be trained in the use and deployment of spill kits. Refuelling location to be located so to ensure there is no discharge on to a natural water course	x	x		x			x	2	3	6	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin
12.3	Tank Washing	Hazardous Substances on site	Spill to ground afffecting flora & fauna	Ground contaimination, breach of EPA licence for project, Fines, Damage to corporate brand	3	3	9	All substances identifed during risk assessment process, All chemicals assessed using chemwatch Current SDS kept on project records for each substance on iste Stored within bunded (10% capacity) and ventilated enclosure	x	x		x				1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin
12.4	Tank Washing	Waste Generation	Turbid water release	Uncontrolled flow of turbid water to surrounding areas / waterways	3	3	9	Impact identified during risk assessment process and recorded. Dedicated wash out bays for all plant. Management plans Regular inspections of area, Specialist contractor to pump out, Obtain neccessary approvals / permits from local regulority authorities	x	x			x	x	x	1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin
13	Storage of fuel in above ground tank	Discharge to Waterways	Chemical Spill due to Asset Failure	Contamination of soil, surace water and ground water	3	3	9	Storage of Hazardous Chemicals Spill Kits MSDS Bunded ISO tanks Undercover storage in shed	x	x		x				1	3	3	Darwin Personnel	OEGAU-E-MAN-006 Site Environment Management Manual Refer to OEGAU-S-PROCD-014 Chemical Management Procedure OEGAU-E-PROCD-001 Spill Management Procedure OEGAU-S-PROCD-022 Emergency Prepardeness & Response Procedure_Darwin