

MCK GROUP – HS-RA-001 WATER TRUCK RISK ASSESSMENT

Worker-Accessible App Extract – Master Document: HS-RA-001 Risk Assessment Register V1.1

Related Documents: HS-PR-001 Risk Assessment Procedure; HS-PR-002 Daily Plant Inspection Procedure; HS-PR-003 Personal Risk Assessment (Take 5) Procedure; HS-PR-005 Incident Investigation & Reporting Procedure; OP-PR-003 Workshop Procedure; OP-PR-017 Unsafe Plant Isolation Procedure; Driving Heavy Vehicles Procedure; Fatigue Management Procedure; Manual Handling Procedure; Working Alone Procedure; Spill Management & Containment Procedure; Operating Mobile Plant SWMS; Relevant heavy vehicle and transport SWMS; Plant Maintenance Register; Training & Competency Register; Relevant EMP and SSMP; MCK Group IMS Registers Master.



Risk ID	Risk Event / Activity	Hazard	Causes	Potential Impacts	Current Controls	Initial Risk	Residual Risk
WT-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defect overlooked or not reported	Vehicle failure, collision, water system failure, serious injury	Daily Plant Inspection; defect reporting; maintenance system; operator checks before use	15	4
WT-002	Operator competency and licensing	Unlicensed or inexperienced operation	Incorrect licence class, inadequate competency or unfamiliarity with vehicle	Collision, rollover, serious injury or fatality	Appropriate driver licence; competency verification; induction; supervision; training records	15	4
WT-003	Road and site travel	Collision or loss of control	Speed, traffic, rough roads, poor weather or site conditions	Fatality, serious injury, vehicle damage	Licensed driver; seatbelt; speed management; route planning; safe following distance; daily inspection	15	4
WT-004	Reversing and manoeuvring	Striking people, plant or structures	Blind spots, restricted work areas, poor communication	Crushing, collision, property damage	Mirrors/cameras; reversing alarm; exclusion zones; spotter where required; low speed	15	4
WT-005	Working near other mobile plant	Plant-to-vehicle collision	Multiple machines, blind spots, poor separation	Serious injury, fatality, plant damage	Work sequencing; exclusion zones; radio communication; designated travel paths	15	4
WT-006	Operating on slopes or unstable ground	Rollover or loss of control	Excessive slope, soft shoulders, saturated or uneven ground	Fatality, serious injury, vehicle damage	Ground assessment; controlled speed; approved travel paths; spray in line with the slope where practicable; avoid unsafe side slopes and edges.	15	4
WT-007	Water tank load	Vehicle instability or overloading	Tank overfilled, vehicle load limits exceeded	Rollover, braking impairment, component overload	Observe tank and vehicle capacity; load limits; controlled filling; operator checks	15	4
WT-008	Liquid surge during travel	Reduced vehicle stability	Partially filled tank, sudden braking, turning or speed changes	Loss of control, rollover	Controlled speed; smooth braking and turning; operator awareness of liquid surge	15	4
WT-009	Filling water tank	Hose movement, slips or falls	Pressurised hose, wet surfaces, poor hose placement	Strains, falls, struck-by injury	Secure hose; controlled filling; tidy work area; suitable footwear; avoid overfilling	9	4
WT-010	Drawing water from approved source	Bank instability / environmental disturbance	Poor access, vehicle too close to edge, unapproved extraction point	Rollover, erosion, environmental harm	Use approved water sources/access points; assess ground and bank stability; EMP controls	15	4
WT-011	Working near waterways or creek crossings	Vehicle rollover / water hazard	Unstable banks, deep water, soft approaches, changing flow	Drowning, injury, vehicle loss, environmental harm	Use approved crossings; assess depth/flow and bank stability; weather monitoring; avoid flooded crossings	15	2
WT-012	Watering haul roads and work areas	Collision with traffic or plant	Slow-moving vehicle, poor visibility, active haul routes	Serious injury, collision, property damage	Warning lights where fitted; radio communication; route coordination; controlled speed; separation	15	4
WT-013	Water spray near workers or public	Reduced visibility / slip hazard	Overspray, wet surfaces, uncontrolled spray direction	Slips, reduced visibility, public or worker exposure	Control spray direction and volume; maintain separation; signage where required	9	4
WT-014	Dust suppression	Inadequate dust control	Insufficient water application, wind, dry conditions	Reduced visibility, respiratory irritation, environmental nuisance	Planned watering; adjust frequency to conditions; coordinate with site operations	12	4
WT-015	Overwatering roads	Slippery or unstable surface	Excessive water application, poor drainage	Vehicle skidding, bogging, erosion, road damage	Controlled application rates; monitor road condition; adjust spray volume and frequency	12	4
WT-016	Water runoff and erosion	Environmental impact	Excessive application, spraying near drains or sensitive areas	Erosion, sediment movement, waterway impact	EMP controls; controlled application; avoid sensitive areas; supervisor oversight	12	4
WT-017	Spray bar and nozzles	Unexpected pressurised discharge	Blocked nozzle, damaged hose, retained pressure	Eye/skin injury, injection injury	Inspect system; keep clear of discharge; isolate and depressurise before maintenance	12	4
WT-018	Hose handling	Manual handling strain	Heavy or awkward hose, dragging, repetitive handling	Sprains, strains, hand injury	Manual Handling Procedure; correct technique; mechanical assistance where available; gloves	9	4
WT-019	Pump and drive components	Entanglement / moving parts	Missing guard, access while operating	Serious injury, entanglement	Guards maintained; isolation before access; competent maintenance personnel	15	2
WT-020	Hydraulic or pressurised system	High-pressure fluid leak	Damaged hose/fitting, poor maintenance	Fluid injection injury, uncontrolled movement, spill	Daily inspection; preventative maintenance; isolation/depressurisation before repair	10	4
WT-021	Tank structural integrity	Tank or mounting failure	Corrosion, cracking, damaged mounts, poor maintenance	Loss of load, vehicle instability, major damage	Pre-start inspection; scheduled maintenance; inspect tank and mounts; defect reporting	10	2
WT-022	Tank entry	Confined space / hazardous atmosphere	Person enters tank for cleaning or repair	Fatality, engulfment or exposure	No tank entry unless separately assessed and authorised under applicable confined-space controls	15	1
WT-023	Tyres and wheels	Tyre blowout or wheel loss	Low pressure, damage, worn tread, loose wheel components	Loss of control, collision, road hazard	Daily inspection; tyre maintenance; wheel security checks; defect reporting	15	4

WT-024	Brake system	Brake failure or poor braking performance	Wear, poor adjustment, maintenance failure	Collision, rollover, serious injury or fatality	Daily inspection; scheduled maintenance; defect reporting; unsafe plant isolation	15	4
WT-025	Refuelling	Fuel spill or fire	Overfilling, hose failure, ignition source	Environmental contamination, burns, fire	Spill kits; controlled refuelling; no ignition sources; trained personnel	12	4
WT-026	Engine and exhaust area	Vehicle fire	Oil/fuel leak, dry vegetation, hot components	Fire, injury, environmental or property damage	Daily inspection; leak control; debris removal; extinguisher where fitted	15	4
WT-027	Working near overhead powerlines	Electrical contact	Vehicle, hoses or filling equipment entering unsafe clearance	Electrocution, fatality	Identify powerlines; safe approach distances; route planning; spotter where required	15	4
WT-028	Roadside or public-interface watering	Vehicle struck by traffic	Working slowly or stopping near live traffic	Fatality, serious injury	Traffic controls where required; warning lights/signage; safe positioning; approved work area	15	4
WT-029	Roadside breakdown or defect	Exposure to live traffic	Breakdown on road shoulder, poor visibility	Worker struck by vehicle, secondary collision	Move to safe location where possible; hazard lights; warning devices; stay clear of traffic; notify management	15	4
WT-030	Maintenance and repairs	Unexpected movement or stored pressure	Inadequate isolation, pressurised system, unsecured vehicle	Crushing, fluid injection, serious injury	Unsafe Plant Isolation Procedure; competent maintenance personnel; depressurise systems; secure vehicle	15	4
WT-031	Remote or isolated operation	Delayed emergency response	Communication blackspots, remote forestry or park work	Serious injury escalation, delayed rescue	Working Alone Procedure; check-ins; radios/phones; emergency contacts; location details; first aid resources	10	4
WT-032	Fatigue during prolonged driving/operation	Reduced concentration and reaction time	Long shifts, repetitive travel, heat	Collision, rollover, poor judgement	Fatigue Management Procedure; scheduled breaks; fit-for-work expectations; supervisor monitoring	15	4
WT-033	Registration and roadworthiness compliance	Use of non-compliant vehicle	Expired registration, unresolved defects, missed inspections	Regulatory action, road incident, loss of accreditation	Vehicle Register; maintenance records; defect management; compliance reviews; roadworthiness inspections	10	2
WT-034	Noise exposure	Excessive occupational noise	Engine, pump operation and spraying activities.	Hearing loss, reduced communication, reduced awareness and increased incident risk.	Maintain equipment; limit exposure; hearing protection; effective communication.	12	4
WT-035	Psychosocial hazards	Psychosocial hazards associated with the task	Delivery schedules, fatigue, remote work and poor communication.	Stress, reduced concentration, psychological injury and increased incident risk.	Worker consultation; work planning; Fatigue Management Procedure; regular breaks; effective communication.	12	6
Controlled Document Notice: This document is a worker-accessible extract from the MCK Group HS-RA-001 Risk Assessment Register. The controlled master register contains the complete risk assessment, action tracking and review information. Refer to the current controlled version for full details.							