MCK GROUP – HS-RA-001 SCRAPER 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; Fatigue Management Procedure; Working Alone Procedure; Spill Management & Containment Procedure; Operating Mobile Plant SWMS; Excavation & Earthworks SWMS; Loading & Unloading Plant & Equipment SWMS; Relevant task-specific 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
SC-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defect overlooked or not reported	Plant failure, collision, rollover, injury	Daily Plant Inspection; defect reporting; maintenance system; operator checks before use	15	4
SC-002	Operator competency	Untrained or unauthorised operation	Inadequate competency verification or unfamiliarity with scraper controls	Serious injury, rollover, collision, plant damage	Competency verification; training records; supervision; manufacturer instructions; site induction	15	4
SC-003	Mounting and dismounting	Slip or fall from plant	Mud, damaged steps, poor three-point contact	Sprains, fractures, lost time injury	Three points of contact; clean access points; suitable footwear; no jumping from plant	9	4
SC-004	Starting and moving scraper	Collision with people or plant	Blind spots, long machine length, poor communication	Crushing, collision, serious injury or fatality	Exclusion zones; competent operator; horn; mirrors/cameras where fitted; radios; pre-start communication	15	4
SC-005	Reversing	Striking person, vehicle or object	Restricted rear visibility, alarms not heard, congestion	Serious injury, fatality, property damage	Reversing alarm; mirrors/cameras; exclusion zones; spotter where required; low-speed reversing	15	4
SC-006	Operating on slopes	Scraper rollover	Excessive gradient, side travel, uneven load, soft ground	Fatality, serious injury, major plant damage	ROPS; seatbelt; competent operator; slope assessment; manufacturer limits; controlled speed	15	4
SC-007	Operating near embankments or drop-offs	Edge collapse / rollover	Soft shoulders, hidden voids, excessive proximity to edge	Fatality, serious injury, plant loss	Safe setback; ground assessment; controlled travel path; berms where required; spotter	15	4
SC-008	Operating on soft or unstable ground	Bogging or loss of stability	Saturated ground, weak fill, buried voids	Rollover, plant damage, recovery risk	Ground assessment; weather monitoring; approved travel paths; competent operator	15	4
SC-009	Cutting / loading soil	Unexpected machine movement or impact	Hard material, hidden rock, stumps, uneven cut	Operator injury, plant damage, loss of control	Controlled cutting speed; site inspection; competent operator; work-area planning	12	4
SC-010	Bowl and apron operation	Crush or pinch points	Person enters operating area, unexpected hydraulic movement	Crushing, serious injury or fatality	Exclusion zone; controls isolated before inspection; no access near moving components	15	4
SC-011	Ejecting / unloading material	Material discharge striking people or plant	Poor positioning, people in discharge zone, uncontrolled ejection	Serious injury, plant damage	Designated dump area; exclusion zone; controlled ejection; communication with nearby plant	15	4
SC-012	Working near other mobile plant	Plant-to-plant collision	Multiple machines, blind spots, poor separation	Serious injury, fatality, plant damage	Work sequencing; exclusion zones; radio communication; designated travel paths; supervisor coordination	15	4
SC-013	Working near workers on foot	Person struck or crushed	Pedestrian enters operating area or blind spot	Fatality or serious injury	No-go zones; high-vis PPE; radio/visual communication; operator stops if person enters exclusion zone	15	4
SC-014	Haul route travel	Collision / loss of control	Poor road condition, excessive speed, congestion	Serious injury, fatality, plant damage	Designated haul routes; speed controls; radio communication; road maintenance; separation distances	15	4
SC-015	Turning and articulated steering	Crush / collision in articulation area	Tight turns, poor clearance, people near articulation joint	Crushing, collision, equipment damage	Exclusion from articulation zone; low-speed manoeuvring; adequate clearance; spotter where required	15	4
SC-016	Operating near underground services	Damage to buried services	Cutting, excavation or compaction over service zone	Electrocution, explosion, flooding, service outage	Before You Dig; service plans; locating/marking; controlled work; supervisor oversight	15	4
SC-017	Operating near overhead powerlines	Electrical contact or arcing	Machine or raised components entering unsafe clearance	Electrocution, fire, fatality	Identify powerlines; exclusion distances; signage; route planning; spotter where required	15	4
SC-018	Braking on haul routes	Brake fade or failure	Long descents, heavy loads, poor maintenance	Loss of control, collision, rollover	Appropriate gear selection; speed control; maintenance system; pre-start brake checks	15	4
SC-019	Tyres and wheels	Tyre failure or wheel loss	Damage, low pressure, excessive wear, loose components	Loss of control, rollover, road hazard	Daily visual inspection; tyre maintenance; wheel security checks; defect reporting	15	4
SC-020	Hydraulic system	High-pressure hydraulic leak or hose failure	Damaged hoses, fittings, poor maintenance	Fluid injection injury, uncontrolled movement, environmental spill	Daily inspection; preventative maintenance; isolation/depressurisation before repair; defect reporting	10	4
SC-021	Engine and exhaust area	Fire from hot surfaces or accumulated debris	Dry vegetation, oil leaks, debris around engine/exhaust	Plant fire, bushfire, injury, environmental damage	Daily inspection; clean engine bay; fire extinguisher where fitted; leak control	15	4
SC-022	Refuelling	Fuel spill or fire	Overfilling, hose failure, ignition source	Environmental contamination, burns, fire	Spill kits; controlled refuelling; trained personnel; no ignition sources; inspections	12	4
SC-023	Dust-generating earthworks	Dust exposure and reduced visibility	Dry soil, haul traffic, wind	Respiratory irritation, collision, environmental nuisance	Dust suppression where practicable; enclosed cab; PPE where required; speed control	12	4
SC-024	Noise and whole-body vibration	Operator exposure	Extended operation, rough haul routes, poor seat condition	Hearing damage, fatigue, musculoskeletal discomfort	Enclosed cab where fitted; hearing protection where required; maintained seat and suspension; scheduled breaks; noise monitoring where required.	9	4
SC-025	Loading or unloading scraper for transport	Plant rollover from ramps or trailer	Poor alignment, slippery ramps, unsuitable loading area	Fatality, serious injury, plant damage	Competent operator; level loading area; rated ramps; exclusion zone; spotter where required	15	4

SC-026	Transport restraint	Scraper movement during transport	Insufficient or damaged chains/restraints	Road crash, plant damage, public injury	Rated restraints; approved tie-down points; pre-departure checks; restraint inspections	**15**	**4**
SC-027	Maintenance and repairs	Unexpected movement or stored energy	Inadequate isolation, raised bowl/apron, hydraulic pressure	Crushing, serious injury, fluid injection	Unsafe Plant Isolation Procedure; competent maintenance personnel; lower/secure components; isolate/depressurise systems	**15**	**4**
SC-028	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; site location details; first aid resources	**10**	**4**
SC-029	Fatigue during prolonged operation	Reduced concentration and reaction time	Long shifts, repetitive haul cycles, heat, vibration	Collision, rollover, poor judgement	Fatigue Management Procedure; scheduled breaks; fit-for-work expectations; supervisor monitoring	**15**	**4**
SC-030	Environmental disturbance	Erosion, excessive ground disturbance or work outside approved limits	Poor haul routes, wet ground, uncontrolled cut/fill	Environmental harm, client/regulatory action, rework	EMP/SSMP controls; approved work boundaries; drainage/erosion controls; supervisor oversight	**12**	**4**
SC-031	Recovery of bogged or disabled scraper	Stored energy / recovery equipment failure	Incorrect recovery points, unsuitable equipment, people in line of pull	Fatality, serious injury, plant damage	Planned recovery; rated recovery points/equipment; exclusion zone; competent personnel; clear communication	**15**	**4**
SC-032	Psychosocial hazards	Psychosocial hazards associated with the task	High workloads, production pressure, fatigue, repetitive operation, remote work and poor communication.	Stress, reduced concentration, poor decision making, psychological injury and increased incident risk.	Worker consultation; work planning and supervision; Fatigue Management Procedure; regular breaks; effective communication; reporting pathways.	**12**	**6**
SC-033	Manual handling	Hazardous manual tasks	Handling chains, tools, hoses and heavy components; awkward postures during inspections and maintenance	Musculoskeletal injuries, strains and sprains	Mechanical aids; minimise manual lifting; suitable work positioning; team handling where appropriate; Manual Handling Procedure	**9**	**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.