

SAFE WORK METHOD STATEMENT

BRIDGE CONSTRUCTION

Prepared for

Client:		Project No:	GCC#XXX
Site Address:		Date Prepared:	DD/MM/YYYY

All foreseeable WHS and Environmental Hazards and Risks associated with the works must be assessed and allocated controls in this SWMS the Project Risk assessment is to be consulted in the compilation/review of this SWMS. All persons involved in the works must have been consulted in the development and/or modification or revision of this safe work method statement. This SWMS to be reviewed as required when changes in activity, system, design, variation, plant, legislative or company requirement is apparent or minimum every 3 months.

All high-risk activities are to be reviewed minimum monthly.

Personnel Consulted on Development of SWMS:		Craig Simpson Roy Simpson		Ryan Yeo Jackson Gage		James Simpson Leonard Pugh		Personnel Responsible for Monitoring and Reviewing this Activity:		Roy Simpson Craig Simpson	
Emergency Contact Information		Site Manager: Roy Simpson – 0439 504 979			Head Office: 02 4239 5900			Personnel Responsible for SWMS implementation:		Roy Simpson	
SHEWMS Prepared By	Melissa Simpson	Date Prepared	DD/MM/YYYY	Reviewed By	Craig Simpson / Roy Simpson	Date Reviewed	DD/MM/YYYY	Next Review Date	DD/MM/YYYY		
Description of works	Construction of a bridge										
Legislation, Aust. Standards and Codes of Practice/ Consulted:	Work Health and Safety Act NSW 2011 Work Health and Safety Regulation NSW 2017 Workplace Injury Management and Workers Compensation Act 1998 WHS (Hazardous Manual Tasks) COP Aug 2019 WHS (Managing the Risk of Plant in the Workplace) COP Aug 2019 WHS (Excavation Work) COP Aug 2019 WHS (Construction Work) COP Aug 2019 WHS (First Aid in the Workplace) COP Aug 2019 WHS (Moving Plant on Construction Sites) COP 2004 WHS (Work near Overhead Power Lines) COP 2006				WHS (Managing noise and preventing hearing loss at work) COP Aug 2019 WHS (Managing the risk of falls at workplaces) COP Aug 2019 WHS (How to Manage Work Health and Safety Risks) COP Aug 2019 WHS (Work near Underground Assets - Guide) COP 2007 Australian Standard AS3600 Concrete Structures Australian Standard AS1554 Structural Steel Welding TfNSW QA Specification G22 – OH&S TfNSW QA Specification R53 – Concrete for general works TfNSW QA Specification R271 – Design & Construct Noise Walls All documents listed above are kept at GC Civil Head Office – for a copy, please contact the Administration Manager)						
Risk Assessment reviewed: YES					This is a High-Risk Construction Activity: YES						
Plant and Equipment Required For this Activity:							List of SOAs/VOCs Required to Operate Plant & Equipment				
Trucks, vehicles Excavator / bobcat / front end loader Crane Mark out paint Laser Level Measuring equipment Lifting equipment (slings, chains etc.)			Signs /Cones / bollards Star pegs / sledge hammer Sandbags Barricades Warning tape Rock breakers Long-handled shovels			Plant Operation - National License To Perform High Risk Work (Crane – CV) Plant Operation - Verification of Competency (VOC) (Bobcat – LS, Excavation – LE) Drivers Licence (Truck/Vehicles) Licence to Perform Dogging EWP Operator Licence					

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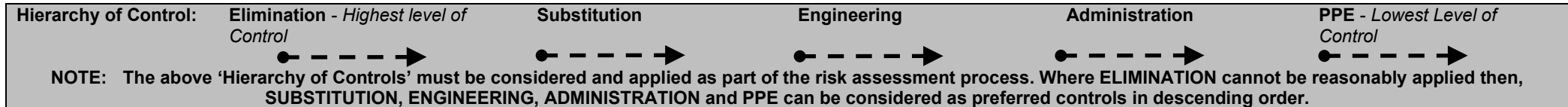
	Hand tools	Working at Heights
Specific Training Required for this Activity:		
Induction in this SWMS	WHS General Construction Induction Card	Fisheries Permit
PPE (as required by task)		
Safety Vest – hi visibility Head Protection - Hard Hat (where required) Safety Boots	Eye Protection - Safety Glasses (AS1337) (where required) Hand Protection - Gloves (where required) Hearing Protection – Earmuffs / buds (where required)	Sun-screen, water container, insect repellent hand wash, soap First Aid Kit
Plant and Equipment Inspections & Maintenance Required:		
Daily inspections of all Plant & Equipment using Checklist. Maintain all plant & equipment in accordance with manufacturers Operators & Maintenance Manual and required all maintenance in GC Civil Maintenance Register Smartsheet	Daily inspection of PPE Visual checks daily of safety barricades	Daily inspection of lifting equipment (chains, slings etc.) Monthly test & tag of all electrical equipment
Materials Used:		MSDS Required:
Fuel for refuelling Modular bridge components	Concrete Steel Bridge Members	Yes – stored in site shed and on electronic SDS register Required on site with materials

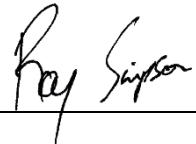
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ACCEPTANCE	POSITION ¹	SIGNATURE	DATE
We hereby accept the controls as detailed in this SWMS and confirm / controls will be implemented and complied with.	GCC Senior Management Representative Name: Roy Simpson		DD/MM/YYYY
Accepted by Client's Representatives	Site Superintendent / Supervisor Name:		
	Safety Representatives Name:		
	Engineer Name:		

Notes: ¹ All relevant signatures must be obtained prior to the commencement of work. Obtain signatures in the order indicated

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2 = Unlikely 1 = Rare			2 = Injured return to work restricted duties (MTI) 1 = Injured immediate return to work (FAI)						
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ITEM No.	POTENTIAL SAFETY AND ENVIRONMENTAL HAZARDS (what can go wrong)	Initial Risk Rating			Control Measures	Residual Risk Rating			PERSON RESPONSIBLE (to ensure management method is applied)
		P X	C =	R		P X	C =	R	
Section 1 – General High-Risk Works (Applicable to all tasks, Plant Interaction, Working near Water, Hazardous Substances, Environmental Controls)									
General (Manual Handling, Back Injury, Slips/trips/falls, Hit by falling objects, Dust/fumes, Access/egress and property damage, Falling into open excavation, sunburn/bites, electrocution, bodily injury to ear/eye/mouth)									
1.	Manual Handling	3	3	9	<ul style="list-style-type: none">• Warm up exercises• Mechanical Aids. i.e. trolley, pallet jack, vacuum operated lifting device, etc.• Team Lifts• Gloves (as required)• Appropriate lifting & bending techniques• Appropriate storage & loading areas• Park as close to work zone as possible	1	2	2	Site Manager / All Workers
2.	Back Injury	4	3	12	<ul style="list-style-type: none">• Warm up exercises.• Ensure stable footing and suitable balance• Avoid unnecessary twisting. Turn your feet, not your hips or shoulders.• Avoid reaching out. Handle heavy objects close to the body. Avoid a long reach out to the load.• Lift with a gradual, smooth motion without jerking.• Minimise the bending of the lower back and keep the knees bent	2	3	6	Site Manager / All Workers

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					<ul style="list-style-type: none">Whenever possible, the grip should be with the whole hand, not just the fingers. Use two hands where possibleImplement job rotation where practical				
3.	Slips, trips & falls (e.g. uneven ground, falls from vehicle)	3	3	9	<ul style="list-style-type: none">Observe ‘No Go Zones’Walk around if possibleInspect ahead for holes / washouts / embankments etc.Nonslip tape below the bottom of doors, front mudguards, stepsPark on Level ground3 points of contact rule (entering/ exiting trucks)Good housekeeping on back of trucks	1	2	2	Site Manager / All Workers
4.	Dust / fumes – lung damage	3	4	12	<ul style="list-style-type: none">All workers to wear appropriate PPE as required by taskWater for dust suppressionCease work if conditions are too windyDust suppression to be used and increased as required. Cover exposed surfaces / stockpiles if feasible.	1	4	4	Site Manager / All Workers
5.	Sunburn, Rash	4	1	4	<ul style="list-style-type: none">All workers to wear appropriate PPE as required by task	1	1	1	Site Manager / All Workers

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6.	Fauna (Bites from Snakes, Spiders, etc.)	2	5	10	<ul style="list-style-type: none">Be aware of potential snake habitat areas (long grass, rocks, etc) & notify team if one is spottedLong trousers, safety boots to be wornDo not enter areas of overgrown vegetation – use machine to clear	1	5	5	Site Manager / All Workers				
7.	Electricity /tools – electrocution	3	5	15	<ul style="list-style-type: none">Train workers in the correct use of the equipment and supervise until they demonstrate they can operate the tool safelyUse tools and fittings to manufacturers recommendationsEnsure guards are in place prior to useCheck generators, motors and/or air compressors are in good working conditionCheck power cables are tested and tagged and are in good condition, repair or replace as requiredUse Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) to prevent electrocution	1	5	5	Site Manager / All Workers				
8.	Bodily Injury to Eye, Ear, Limb	3	2	6	<ul style="list-style-type: none">Wear appropriate PPE	1	2	2	Site Manager / All Workers				

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					<ul style="list-style-type: none"> Before use, ensure all tools have manufacturer's guards installed and correctly operating. These guards shall not be removed or modified All cutting blades shall be inspected prior to use to ensure they are sharp and free of damage 				
9.	Working at heights/fall from heights off the bridge deck	3	4	12	<ul style="list-style-type: none"> Erect fall protection / temporary handrail to unprotected edges Highlight edges with bunting Provide access ladders /scaffold for safe ingress /egress from bridge deck Toolbox height safety with all workers, including trip hazards near deck edges 	1	4	4	Site Manager / All Workers
10.	Unfit for work - under the influence of drugs or alcohol, etc.	3	5	15	<ul style="list-style-type: none"> All personnel shall attend work in a fit and sober condition, free from the effects of drugs, alcohol and non-prescription medication. Personnel to be aware that they may be subject to random or targeted testing for the presence of alcohol and drugs at any time. 	1	1	1	Site Manager / All Workers
11.	Failure to comply with the content and intent of this SWMS results in injury to persons or damage to equipment.	3	4	12	<ul style="list-style-type: none"> Ensure work reflects the SWMS controls Work is to cease in the failure of compliance 	1	2	2	Site Manager / All Workers

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					<ul style="list-style-type: none">Personnel not complying with are to be retrained in this SWMSDepending on severity, the foreman may choose to exclude the persons in breach of further work				
Plant & Vehicle Interaction									
12.	Vehicle movements	3	5	15	<ul style="list-style-type: none">Ensure reversing alarms are workingAll Vehicles / plant to be inductedMake sure transport vehicle is on stable groundDesignate a competent person to direct transport vehicles and always maintain positive communication with driverMake sure trucks can exit steep or muddy sites when emptyFollow VMP to provide clear access for vehicles to enter, exit and move on siteEstablish exclusion zones to delineate workers on foot from vehiclesNever stand on the downhill side or directly behind a moving or unloading truck	1	5	5	Site Manager / All Workers

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Section 1 – General High-Risk Works (Applicable to all tasks, Plant Interaction, Working near Water, Hazardous Substances, Environmental Controls)

					<ul style="list-style-type: none"> Keep clear of the load gate when releasing the pin Check for overhead wires, structures and branches especially when tipping Spotter to be in place when tipping 				
13.	Incompetent Operators	2	3	6	<ul style="list-style-type: none"> All operators shall be appropriately licensed and ticketed and shall display competency in the operation of the crane / plant, Pre-starts to be completed prior to operating 	1	3	3	Site Manager / All Workers
14.	Personnel struck by machine / within swing zone	3	5	15	<ul style="list-style-type: none"> All workers to wear appropriate PPE as required by task Exclusion zone to be established and communicated around excavation as determined by the radius of swing zone of the excavator to delineate workers on foot from moving plant remain outside this "Swing Zone" while the machine is operating unless required and trained to do so Ensure operator is adequately trained and holds correct plant operation ticket Always maintain positive communications between operator 	1	5	5	Plant Operator / Spotter / Site Manager / All Workers

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					and spotters/ workers on foot (visual and verbal or UHF) <ul style="list-style-type: none">Spotter to be in place when machine is operatingSafety isolation switches shall not be overridden, modified or removedClearly signal intention to move into ‘Swing Zone’ of crane/machine and receive acknowledgement of this from machine/crane operator before entering this zoneWhile working in ‘Swing Zone’, crane/ machine to cease operation with hook resting on ground or suspended in a stationary position.						
15.	Plant / vehicle Overturn (i.e. soft ground / ground collapse)	2	5	10	<ul style="list-style-type: none">Ensure vehicle / truck is parked on flat, level groundEnsure locking pins of loading ramps are housed in appropriate hole on the deck of the truck or plant trailerSWL to be clearly displayed on loading ramps.Ensure the machine weight including any buckets or attachments fitted is	1	5	5	Plant Operator / All Workers		

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WHS Systems
WHS Policies
Work Method Statement
WHS Consulting

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					less than the SWL of the loading ramps • Establish exclusion zones around plant operation.				
Working near Water									
16.	Machine entering water area being a creek, and becoming submerged	3	4	12	• When operating on a waterfront, be particularly aware of site conditions, water depths, weather conditions, personnel around you, and always maintain a pre-determined escape route	1	4	4	Site Manager
17.	Fast flowing or moving water	3	4	12	• Coordinate activities to coincide with creek conditions and do not work during adverse weather conditions	1	2	2	All Site Personnel
18.	Water becoming contaminated	3	5	15	• Coordinate concrete pours on dry weather days and normal creek conditions, preferably low flows • Refer to Concrete works section of this SWMS	1	3	3	Site Manager
19.	Cold / Wet / Hypothermia	4	4	16	• Wear adequate layers of clothing as per weather conditions/seasons • Dry out clothing that may become wet	1	2	2	All Site Personnel
Hazardous substances and chemicals									

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20.	Poisonous and flammable gases, Skin irritation, burns	5	5	25	<ul style="list-style-type: none">Wear correct PPE to prevent skin and eye contact, inhalation of fumes or ingestion of substanceTrain workers in correct use of any hazardous substances and chemicalsEnsure correct storage in a designated storage areaFollow the manufacturer's recommendations on label and Safety Data Sheet (SDS)Make sure first aid kits are availableDo not smoke or use any ignition sources near dry grass, combustible gases, or liquidsWash hands after use and before eating, smoking, or using toilet	1	5	5	Site Manager / All Workers		
Environmental Control											
21.	Damage to environment	4	5	20	<ul style="list-style-type: none">Follow environmental control measures and proceduresEnsure refuelling of plant and equipment does not take place within 50m of any watercourse and only after equipment has cooled downEnsure spill kit is present on site prior to refuelling	1	5	5	Site Manager / All Personnel		

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					<ul style="list-style-type: none">Ensure correct disposal of all contaminated materialConcrete washouts to be sized appropriately and cleaned up prior to forecast inclement weather				
22.	Accidental spill and leak (fuel / hydraulic)	3	4	12	<ul style="list-style-type: none">Report all incidents to supervisorSpill kit must be made available and ready for useSpill Procedure:<ul style="list-style-type: none">Communicate to supervisorConsider the riskCease the flowContainClean upConclude incident report	2	2	4	Site Manager

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Section 2 – Mobilisation / Site Establishment / Traffic Control											
Site induction / Pre-start, Site Establishment (Loading/unloading vehicles, planning & preparation, Use of Portable Power Tools); Set up, establishment, maintenance and disestablishment of Traffic Control											
23.	Unsuitable TCP, pedestrians & vehicle movement through works area	5	4	20	<ul style="list-style-type: none">Implementation of suitable TCP, ROLs, adherence to TfNSW & Council Standards and Specifications, appropriate PPE and licenced and qualified traffic controllers where applicable	2	4	8	Traffic Controller – UHSC		
24.	Personnel unfamiliar with WHS requirements or site-specific hazards	3	2	6	<ul style="list-style-type: none">Complete InductionAll workers to attend Pre- start dailyAll SWMS to be approved, understood and signed	1	2	2	Site Manager / All Workers		
25.	Interaction with Live Traffic	4	5	20	<ul style="list-style-type: none">This is not expected to be a high risk on this project as the road will be closedAll workers to wear appropriate PPE as required by taskNo worker to be nearer than 1.2m to traffic travelling faster than 60km/hr	2	5	10	Site Manager / All Workers		
26.	Vehicle Movement	3	5	15	<ul style="list-style-type: none">Refer to Vehicle Movement Item under General SectionSite inductionSite VMP to be complied with	1	5	5	Site Manager / All Workers		

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		P X	C =	R		P X	C =	R			
Section 3 – Clearing & Grubbing											
27.	Airborne Projectiles	4	3	12	<ul style="list-style-type: none">Ensure guards are fitted to slashers, mowers and brush cuttersUse nylon cord on brush cutters rather than steel bladeswear appropriate PPE as required	1	2	2	Site Manager / All Workers		
28.	Trips & falls	4	3	12	<ul style="list-style-type: none">Inspect area to be slashed prior to slashing, for trip hazards, stumps, rocks undulations, etc	1	3	3	Site Manager / All Workers		
29.	Strike by object	3	5	15	<ul style="list-style-type: none">Delineate an exclusion zoneUse spotterExperienced & competent personnel to undertake tree fellingUndertake a ‘Toolbox Talk’ Plan before felling each major branch or treeAll workers to wear appropriate PPE as required by task	2	3	6	Site Manager / All Workers		
30.	Injury to limb	2	4	8	<ul style="list-style-type: none">Ensure guards are fitted to chainsaws, brush cutters, etcAppropriate training of personnel in use of chainsawAll workers to wear appropriate PPE as required by task	1	3	3	Site Manager / All Workers		

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Section 4 – Survey Set Out

Plot survey and set out survey for the new bridge to be constructed. Undertake Works as Executed survey upon practical completion of the works

31.	Injury from Thick Bush / Scrub	3	2	6	<ul style="list-style-type: none"> Maintain visual contact between survey party members Refer to Fauna (Bites from Snakes, Spiders, etc.) under General section Refer to Slips, trips & falls item under General Section 	2	1	2	Survey Party Leader / Site Manager
32.	Tip / Fall / Sprain from Rough Terrain	5	3	15	<ul style="list-style-type: none"> Maintain visual contact between survey party members Refer to Slips, trips & falls item under General Section 	2	1	2	Survey Party Leader / Site Manager
33.	Trip over Survey pegs / stakes	5	1	5	<ul style="list-style-type: none"> Use painted survey pegs & stakes Use bright coloured flagging tape tied to stakes 	1	2	2	Survey Party Leader / Site Manager
34.	Over strain	4	3	12	<ul style="list-style-type: none"> Personnel trained in technique of hammering in pegs & stakes Stand-up & stretch regularly Job rotation Warm-up exercises 	1	2	2	Survey Party Leader / Site Manager

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Section 5 – Excavation Works

35.	Excavation works – falls, collapse	3	5	15	<ul style="list-style-type: none"> Unless adequate shoring is in place, do not enter any excavation deeper than 1.2m or any excavation of shallower depth if excavation is assessed to be potentially unstable or groundwater is present Be particularly careful of excavation instability following rainfall or where vibrations occur / may occur If excavations are on sloping ground, remember that the "effective" depth of the excavation is greater on the uphill side. If possible, excavate in the "upslope-downslope" direction Deep excavations shall be shored & battered in accordance with SafeWork requirements Install fall protection where required in relation to the pre-determined depth of water and work site conditions and size of machinery being used. Do not stand close to the edge of an excavation. Do not stand between excavated spoil and edge of excavation. 	1	5	5	Site Manager / All Workers
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Section 5 – Excavation Works									
					<ul style="list-style-type: none">Don't allow excavated spoil to be placed close to the edge of excavation. The distance from the edge to toe of stockpile should not be less than half the intended full depth of excavation and preferably greater.For excavations on sloping ground, place excavated spoil on the downhill side if clear space is available.In the event that a fall occurs, emergency services should be contacted when spinal injury is suspected				
36.	Risk of Hitting Existing Underground Service / Electrocution	3	5	15	<ul style="list-style-type: none">Check for underground services – Dial Before You Dig (DBYD) 1100 and note the service location, type, depth and any restrictions that apply;Liaise / Obtain any appropriate approvals from the Service providers / asset holderLocate services in vicinity of works by pot holing, service locator, etc.No mechanical digging within 500mm of a known service (or as stated by the asset owner)	1	5	5	Site Manager / Plant Operator / All Workers

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Section 5 – Excavation Works									
					<ul style="list-style-type: none">Hand excavate/ NDD if exact location of services is unknown.Spotters to be alert and notify operator of any unexpected finds or servicesUse spotter while using excavator to look for utility protection markersNo tooth buckets to be used around known servicesExcavation permit for ground disturbanceRefer to page 31-33 of SafeWork Work near Underground Assets guide here (Scan QR code) 				
37.	Unexpected Asbestos Finds	2	4	8	<ul style="list-style-type: none">Asbestos finds are not anticipated on this site. However, if we encounter unexpected asbestos finds, stop work. We will notify the Site Supervisor who will escalate as per their Procedure.	1	4	4	Site Manager / All Workers

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Section 5 – Excavation Works													
						We will receive instruction back from the client as to how to proceed. <ul style="list-style-type: none">The works area will be delineated, and appropriate signage erected to create an exclusion zone.							

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Section 6 – Removal of Existing Bridge											
38.	Unexpected structure collapse	4	5	20	<ul style="list-style-type: none">Plan for a logical dismantling process, communicate plan to all personnel involved with the bridge removalMonitor during removal process and adjust the plan if necessary	2	5	10	Site Manager		
39.	Lifting Equipment Failure	2	5	10	<ul style="list-style-type: none">All lifting points and devices (nylon slings, chains, shackles, hooks, etc). shall be clearly marked with SWLEnsure test & tag is in date and check for wear and tear, ensuring all are in good condition, not exceeding statutory wear regulations prior to every useDo not stand beneath any lifted load	1	5	5	Plant Operator / All Workers		
40.	Slipping of Lifting Chain/Sling	4	4	16	<ul style="list-style-type: none">Choke chain/sling back through one hook/eyeEnsure choke is as tight as possible, by hitting the chain/sling with a round steel bar as the load is slowly liftedPlace a bar through the post, above the lifting point, where there are holes provided in the post web or flange	2	4	8	Site Manager / All Workers		
41.	Struck by lifted object or swinging arm/hook of crane/plant	4	5	20	<ul style="list-style-type: none">Refer to Personnel struck by machine / within swing zone item under General Section	2	5	10	Site Manager / All Workers		

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Section 7 – Installation of Inquik bridge units / Pre-stressed Concrete Bridge Beams

42.	Unplanned lifting resulting in crane /plant overturn	4	5	20	<ul style="list-style-type: none"> Undertake a Lift Study & create plan before lifting All operators shall be appropriately licensed and ticketed and shall display their competency Assess and estimate the load of any item to be lifted, prior to lifting All lifting equipment (i.e. Cranes, excavators, skid steer loaders) to be clearly marked with SWL and contain a manual / lift study plan outlining detailed lifting tables Check working platform prior to work commencing 	1	5	5	Crane operator / Site Manager
43.	Personnel unaware of lift methodology	3	4	12	<ul style="list-style-type: none"> All site personnel are inducted into the lift study plan, methodology & SWMS. 	2	4	8	Site Manager
44.	Incorrect crane /plant setup	4	5	20	<ul style="list-style-type: none"> Crane operator to setup crane as per the Operation Manual / lift study plan 	1	5	5	Crane operator / Site Manager
45.	Components swing/sway during craneage and hit other objects	4	3	12	<ul style="list-style-type: none"> Attach tag line to all objects before lifting Establish & communicate exclusion zones All workers to wear appropriate PPE Do not place limbs between objects, when guiding into position use metal 	2	3	6	Site Manager

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Section 7 – Installation of Inquik bridge units / Pre-stressed Concrete Bridge Beams											
					tools or equivalent to avoid pinch points						
46.	Lifting Equipment Failure	2	5	10	<ul style="list-style-type: none">All lifting points and devices (nylon slings, chains, shackles, hooks, etc). shall be clearly marked with SWLEnsure test & tag is in date and check for wear and tear, ensuring all are in good condition, not exceeding statutory wear regulations prior to every useDo not stand beneath any lifted load	1	5	5	Plant Operator / All Workers		
47.	Slipping of Lifting Chain/Sling	4	4	16	<ul style="list-style-type: none">Choke chain/sling back through one hook/eyeEnsure choke is as tight as possible, by hitting the chain/sling with a round steel bar as the load is slowly liftedPlace a bar through the post, above the lifting point, where there are holes provided in the post web or flange	2	4	8	Site Manager / All Workers		
48.	Struck by lifted object or swinging arm/hook of crane/plant	4	5	20	<ul style="list-style-type: none">Refer to Personnel struck by machine / within swing zone item under General Section	2	5	10	Site Manager / All Workers		

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Section 8 – Installation of Formwork											
49.	Formwork not installed in accordance with design	4	4	16	<ul style="list-style-type: none">Formwork to comply with AS3610 Concrete Formwork SpecificationsApproved design drawings to be onsite during formwork construction.Formwork shall consist of LVL timbers, plywood, steel shutters	1	4	4	Site Manager / All Workers		
50.	Lifting of Formwork / Shutters	4	4	16	<ul style="list-style-type: none">Exclusion zone to be in place where neededOnly ticketed personnel to undertake lifting operationsTag-line attached to lifted objectInspect lifting sling / chainLifting points to be used as per manufacturers guidelinesRefer to Personnel struck by machine / within swing zone item under General Section	2	2	4	Site Manager / All Workers		
51.	Pinch & Crush Points	3	4	12	<ul style="list-style-type: none">Position materials using a 2-person (or more) lift or mechanical where requiredFingers to keep away from pinch / crush points by using flat of hand to push.Jimmy bar to be used where possibleAll workers to wear appropriate PPE as required by task	2	1	2	Site Manager / All Workers		

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			P	X	R				P	X	R								
Section 8 – Installation of Formwork																			
52.	Failure of Forms		4	3	12	<ul style="list-style-type: none">All formwork for structural concrete needs certification prior to installs and post install from engineer			2	1	2	Site Manager / All Workers							
53.	Protruding Nails		4	3	12	<ul style="list-style-type: none">De-nail as you goMaintain good housekeeping			2	2	4	Site Manager / All Workers							
54.	Blowing out of loose material before closing up shutters using Petrol Blower		3	4	12	<ul style="list-style-type: none">All Personnel must keep clear of the area in which the debris is being blown out.Wear appropriate PPE (hearing protection if in the vicinity)Establish & communicate exclusion zone			2	1	2	Site Manager / All Workers							
55.	Spraying of Formol – Uncontrolled chemical release		4	2	8	<ul style="list-style-type: none">Airline connections to be secured with safety pins.Spraying should not be done with workers downwindNozzle to be kept as close to the ground as possibleWear appropriate PPEFormol - SDS to be close to hand / on site along with first aid kit. First Aid to be applied as specified in SDS			2	1	2	Site Manager / All Workers							

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Section 9 – Steel fixing												
Steel Fixing, Carry in Steel from Set-Down Area												
56.	Protruding Bars & Starter Bars	4	3	12	<ul style="list-style-type: none">Where possible, do not work directly above/adjacent to exposed rebar where persons could be impaled.Correctly sized rebar-caps to be fitted to exposed reo bar ends. Check regularly for deterioration/ damage and ensure they are still in place and correctly fitted	1	2	2	Site Manager / All Workers			
57.	Sharp - edges and ends on steel / reinforcement	3	1	3	<ul style="list-style-type: none">All workers to wear appropriate PPE (gloves) as required by task when handling steel workWhere possible and it will not affect any finished coating or surface, paint the ends and edges of steel work with bright coloured paint.Use caps to cover sharp ends	2	1	2	Site Manager / All Workers			
58.	Manual Handling of bar (heavy lifts, long bars)	4	2	8	<ul style="list-style-type: none">Refer to Manual handling item in General SectionUse 2 people to carry & manoeuvre long barsEnsure the work area is free from slip, trip hazards	2	2	4	Site Manager / All Workers			
59.	Repetitive Strain Injury (RSI) during steel fixing	4	2	8	<ul style="list-style-type: none">Warm up exercisesJob rotation	1	2	2	Site Manager / All Workers			

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Section 9 – Steel fixing									
					• Stand-up & stretch regularly				
Hot Works including grinding, cutting, welding incl. Oxy Acetylene. Hot Work Permit must be completed for all hot work, prior to works commencing									
60.	Fire	4	4	16	<ul style="list-style-type: none">Ensure a current hot works permit is in placeRemove flammable materials from work area. Wet down any timber surfaces. Keep Water based fire extinguisher nearby	1	4	4	Site Manager
61.	Welding of Reinforcement	4	4	16	<ul style="list-style-type: none">Wear appropriate PPENo welding shall be carried out close to moving plant & equipmentWelding screens to be erected if requiredEstablish and communicate an exclusion zone	1	2	2	Site Manager / All workers
62.	Cutting reo with grinder	4	4	16	<ul style="list-style-type: none">Wear appropriate PPECut in an exclusion zone – away from other WorkersGrinders of 125mm dia or less to be used.Grinder must have safety guard.Grinder must have Deadman switchMust observe the approved operation hours. All noisy activities to be	2	2	4	Site Manager / All workers

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Section 9 – Steel fixing

					assessed by onsite environmental team. <ul style="list-style-type: none"> Work areas to be cleared of combustible materials prior to works taking place. Tagged and in date fire extinguisher is to be available during these works Sparks are to be aimed away from work and combustible areas Secure material against movement whilst being cut. 				
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Probability: 5 = Almost certain 4 = Probable 3 = Moderate		Safety Consequence: 5 = Multiple/Singular Fatality 4 = Non-fatal but permanent injury 3 = Injured, no return to work (LTI)		Environmental Consequences: 5 = Major incident, widespread/significant damage 4 = Significant pollution, potential/actual damage 3 = Localised incident/effects on environment 2 = Limited/short term impacts 1 = Negligible effect					
2 = Unlikely 1 = Rare		2 = Injured return to work restricted duties (MTI) 1 = Injured immediate return to work (FAI)							
1- 6 Acceptable 7 - 12 Acceptable with strict Control Measures or Short Duration 13 - 25 UNACCEPTABLE									
ITEM No.	POTENTIAL SAFETY AND ENVIRONMENTAL HAZARDS (what can go wrong)	Initial Risk Rating			Control Measures	Residual Risk Rating			PERSON RESPONSIBLE (to ensure management method is applied)
		P X	C =	R		P X	C =	R	
Section 10 – Pouring & Finishing of Concrete									
63.	Manual Handling - Vibration & Finishing of Concrete	3	3	9	<ul style="list-style-type: none">Competent personnel to use plant and toolsAll workers to wear appropriate PPETeam-liftsJob rotationRegular rest periods	1	1	1	Site Manager
64.	Concrete Pumping	3	3	9	<ul style="list-style-type: none">Inspect before setting upEnsure correct set-up and stabilisers are on firm ground, pump is only operated by competent operatorEstablish exclusion zones	2	1	2	Site Manager
65.	Concrete Deliveries	3	3	9	<ul style="list-style-type: none">Only controller / spotter to direct truckConcrete to be released in a controlled mannerWorkers to stay clear from crush points when truck is reversingVehicles to have reverse quacker & beaconDrivers to remain in the cab if they are not wearing the correct PPE.Positive communication - Do not approach plant unless stoppedRefer to Vehicle Movement item under General Section	2	1	2	Site Manager

SAFE WORK METHOD STATEMENT

BRIDGE CONSTRUCTION

Prepared for

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Section 10 – Pouring & Finishing of Concrete									
66.	Contact of concrete with skin and eyes / Concrete Splashes & Burns to Eyes and Body	4	3	12	<ul style="list-style-type: none">All workers to wear appropriate PPEWash all concrete from skin immediately with waterSDS shall be available onsite.Follow first aid procedures as directed	2	2	4	Site Manager
67.	Clean Up and concrete wash out	4	3	12	<ul style="list-style-type: none">Concrete trucks / equipment / Pump is to wash out in pre-designated wash out areaAll workers to wear appropriate PPE as required by task	2	2	4	Site Manager

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Section 10 – Demobilisation / Disestablishment									
Disestablishment Works									
68.	Risk of Slips, trips & falls (e.g. uneven ground, falls from vehicle)	3	4	12	<ul style="list-style-type: none">Refer to Slips, Trips & Falls from General Section	1	4	4	Site Manager
Vehicles exiting site									
69.	Damage to personal / plant and environment	3	5	15	<ul style="list-style-type: none">Follow VMPPositive comms	1	5	5	Site Manager / All Personnel
70.	Vehicle/Truck Movements	4	5	20	<ul style="list-style-type: none">Reversing alarmsFollow VMPAppropriate drivers licencesUse of a guide to assist driver	1	5	5	Site Manager

SAFE WORK METHOD STATEMENT

BRIDGE CONSTRUCTION

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Client:		Project No:	GCC#XXX
Site Address:		Date Prepared:	DD/MM/YYYY

Risk Assessment Reckoner	Probability (P) – How Likely is it to happen					Risk Rating (R)
	++ Very Likely Could happen at any time 5	+ Likely Could happen at some time 4	Possible Could happen 3	- Unlikely Could happen, but rarely 2	- Very unlikely Could happen, but probably never will / practically impossible 1	
<ul style="list-style-type: none"> Kill or cause permanent disability Cause major damage to property Have significant impact on the environment 5	25	20	15	10	5	13-25 UNACCEPTABLE
<ul style="list-style-type: none"> Long term illness or serious injury Significant damage to property Breach the site boundary and pollute environment 4	20	16	12	8	4	
<ul style="list-style-type: none"> Medical attention and several days off work Minor damage to property Be contained within site boundary, minor pollution 3	15	12	9	5	3	7-12 Acceptable with strict control measures or short duration
<ul style="list-style-type: none"> Has been injured but not to extent of medical attention Return to work with restricted duties Pollution to environment insignificant 2	10	8	6	4	2	1-6 ACCEPTABLE
<ul style="list-style-type: none"> First Aid needed – not likely to cause lost time Negligible damage to property Pollution to environment insignificant 1	5	4	3	2	1	

Prepared for

WHS Systems
WHS Policies
Work Method Statement
WHS Consulting

Client:		Project No:	GCC#XXX
Site Address:		Date Prepared:	DD/MM/YYYY

These SWMS are separated into 11 sections, please sign on to the sections applicable to the work you are completing. These are:

Section 11 – Demobilisation / Disestablishment

[illegible]

SAFE WORK METHOD STATEMENT

BRIDGE CONSTRUCTION

Prepared for

Client:		Project No:	GCC#XXX
Site Address:		Date Prepared:	DD/MM/YYYY

We, the undersigned, confirm that we were consulted in the development of this Safe Work Method Statement nominated above and have been explained its contents. We also confirm that we are qualified to carry out the works identified above, the copies of required qualifications have been provided to GC Civil to undertake this activity and are current. We also clearly understand that the controls in this SWMS must be applied as documented; otherwise work is to cease immediately.

These SWMS are separated into 11 sections, please sign on to the sections applicable to the work you are completing. These are:

Section 1 – General High-Risk Works
Section 2 – Mobilisation / Site Establishment
Section 3 – Clearing & Grubbing
Section 4 – Survey Set Out
Section 5 – Excavation Works
Section 6 – Removal of Existing Bridge

Section 7 – Installation of Inquik bridge units / Pre-stressed Concrete Bridge Beams
Section 8 – Installation of Formwork
Section 9 – Steel fixing
Section 10 – Pouring & Finishing of Concrete
Section 11 – Demobilisation / Disestablishment

NAME	QUALIFICATION REQUIRED	SWMS SECTION (Please tick the appropriate section)											SIGNATURE	DATE	TIME	EMPLOYER
		1	2	3	4	5	6	7	8	9	10	11				

Any revision or modification to this SMWS is to be completed in the SWMS Review & Change Sheet, and signed off by those mentioned in the table above