



IRRIGATION SYSTEMS



Business Name & Address: _____ **Property Name/PIC:** _____

Audit Team: _____ **Audit Date:** ____/____/____

Description (structure type): _____ **GPS Ref./Location:** _____ **Asset ID # (if applicable)** _____

RISK CALCULATOR	LIKELIHOOD – The likelihood of the exposure causing injury to a person given the frequency of exposure				
CONSEQUENCES How severely could it hurt someone	ALMOST CERTAIN <i>Is expected to occur in most circumstances</i>	LIKELY <i>Will probably occur in most circumstances</i>	POSSIBLE <i>Might occur at sometime</i>	UNLIKELY <i>Could occur at sometime</i>	RARE <i>May occur in exceptional circumstances</i>
CATASTROPHIC <i>Death or permanent disability</i>	EXTREME	EXTREME	EXTREME	EXTREME	HIGH
MAJOR <i>Serious bodily injury</i>	EXTREME	EXTREME	EXTREME	HIGH	HIGH
MODERATE <i>Casualty Treatment</i>	EXTREME	HIGH	HIGH	MODERATE	MODERATE
MINOR <i>First aid only, no lost time</i>	HIGH	HIGH	MODERATE	LOW	LOW
INSIGNIFICANT <i>No injuries</i>	HIGH	MODERATE	LOW	LOW	LOW

RISK CLASS	ACTION REQUIRED
OK or Not Applicable	No Foreseeable Risk - OK for now; Review if any equipment/people/materials/work methods or procedures change. Or this particular inspection item is Not Applicable to this workplace
EXTREME	Extreme Risk - Act Now Do something about these risks immediately. Stop the task until the hazard is controlled and the risk managed.
HIGH	High Risk - Act As Soon As Possible. Do something to manage these risks as soon as possible. Consultant with Management
MODERATE	Moderate Risk - Develop a PLAN to manage these risks / note any suggestions on how the risk might be managed.
LOW	OK for now Review if any equipment/people/materials/work methods or procedures change.



IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
IRRIGATION PUMP STATIONS					
1. Are all moving parts (belts, pulleys, chains, shafts, etc) protected and guards kept in place?					
2. Are operator manuals and handbooks readily available for the pumps, motors and associated equipment machine?					
3. Are operators adequately trained in procedures to service and maintain pump stations?					
4. Are all fittings clean and in working order?					
5. Are suitable earmuffs or plugs available to plant operators if noise levels generated are assessed as harmful?					

IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
6. Is the condition of steps, catwalks and handrails on plant adequate to allow safe access and egress?					
7. Is there a fall restraint system in place for the decent/ascent into pump wells / shafts?					
8. Are daily checks made for oil, coolant, belt tension, vac pump, fuel and hoses?					
9. Are operators trained and authorised to make minor adjustments?					
10. Is approved personal protective equipment available for operators undertaking repairs and maintenance?					
11. Are lock-out / tag-out procedures in place and approved by management?					
12. Is there a Policy and procedure for confined space entry, and has a Confined Space Permit been issued?					
13. Is there safety & rescue equipment available and are suitable numbers of persons trained in tis use?					
14. Is the exhaust system functional to protect the operator from noise and exhaust gas exposure?					
15. Are all hydraulic hoses sound and undamaged with no fluid leaks from hoses or couplings?					
16. Is there a first aid kit available to operators in the work environment?					
17. Are there adequate numbers of workers trained in first-aid available to meet the requirements of a Confined Space Permit?					
FUEL STORAGE AND DELIVERY					
18. Are operator safety instructions readily accessible to all operators?					
19. Has eye, hearing and other necessary PPE been provided too operators of such machines?					
20. Has adequate training and instruction been provided for the correct use and maintenance of PPE provided?					
21. Are all fittings clean and in working order?					
22. Is the machine adequately labelled with safety decals / signage?					

IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
23. Are fuel storage tanks adequately banded to prevent fuel leakage into waterways and irrigation channels?					
24. Are all leaks and spillages reported to Management?					
25. Have workers received training and instruction in the safe use and maintenance of mobile fuel trailers?					
26. Are routine services and maintenance undertaken on all high risk plant including the servicing of fuel delivery trucks?					
27. Are service and maintenance records kept?					
28. Is a fire extinguisher available in the operating environment?					
IRRIGATION CHANNEL TRASH RACKS					
29. Are workplace procedure and safety instructions readily accessible for all operators? (Operators hand book?)					
30. Are all fittings clean and in working order?					
31. Are earmuffs or other forms of hearing protection provided to operators and relevant others when using noise generating plant and machinery?					
32. Are hydraulic hoses in good condition with no leaks? Are all hydraulic rams in working conditions, including ram clevis pins and anchor plates?					
33. Are safety decals/stickers in place?					
34. Is all trash regularly cleared away to allow manual operations to be performed?					
35. If working under raised equipment or implements, are adequate supports/chocks used?					
36. Is a lock-out / tag-out system authorised by management and are all workers aware of the requirements?					
37. Are all nip or running in points protected by guards to prevent entanglement in machinery?					
38. Are first-aid kits accessible to machinery operators?					
39. Are hand rakes and other cleaning equipment available on site and in good working order?					

IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
OPERATIONAL POLICY- GENERAL					
40. Is there a policy of skills assessment of new and existing workers to ascertain their competency to operate machinery and vehicles in a safe and competent manner?					
41. Are operators, under training, adequately supervised until such times as they are deemed competent to operate relevant plant and machinery?					
42. Are operators instructed to check for pedestrian traffic and children who may be present in the work area?					
43. Is there a policy in place, "That prohibits persons from riding in or on machines or other types of vehicles unless the activity is deemed to be a "specific work activity"?"					
44. Is there a buddy system in place when maintenance is being carried out on high risk plant such as trash rakes and pump wells?					
45. When maintenance is being performed, is there a tag-out system to prevent the inadvertent operation of the equipment by another person?					
46. Is there a written service policy, incorporating a lock-out procedure when maintenance is carried out on plant and machinery?					
47. Are regular reviews of safe operation procedures conducted with consultation sought from operators and other workers?					
48. Are ignition keys removed, or lock-out devices fitted when the machine is not in use?					
49. Is there a zero alcohol policy in place for persons operating vehicles and machinery in the workplace?					
50. Are persons, who may be taking prescription medications required to inform their supervisor if they are required to operate machinery or vehicles?					
ADDITIONAL HAZARDS					
51.					
52.					

IDENTIFIED HAZARDS	OK or NA	EXTREME (Act Now)	HIGH (Act ASAP)	MODERATE (Plan)	LOW (Review)
53.					
54.					
55.					
56.					
57.					
58.					
59.					

RISK ASSESSMENT AND MANAGEMENT RECORD									
HIERARCHY OF CONTROLS PLANNED OR IMPLEMENTED									
Item #	Date	Identified Hazard	Assessed Risk Level	Control 1 Eliminate	Control 2 Substitute	Control 3 Isolate or Guard	Control 4 Redesign or Engineering	Control 5 Administration	Control 6 PPE

IMPLEMENTATION AND CONTROL SHEET

Item #	RISK MANAGEMENT ACTION REQUIRED	Responsible Person	Cost \$	Target Date	Date Actioned	Revised Risk Level after Action