

# FIRE RISK ASSESSMENT



|                  |  |                  |                |
|------------------|--|------------------|----------------|
| <b>Location</b>  | Urban Springside - Former Kruger Mill                  | <b>Page</b>      | 1 of 3         |
| <b>Operation</b> | Treatment and storage of 'New Tip' waste paper sludges | <b>Revision</b>  | First issue    |
| <b>Assessor</b>  | Darrell J Woodrow                                      | <b>Position</b>  | Site Manager   |
|                  |  | <b>Signature</b> |                |
|                  |  | <b>Date</b>      | 26th June 2019 |

|          |   |   |    |    |    |    |                                      |   |   |
|----------|---|---|----|----|----|----|--------------------------------------|---|---|
| Severity | 5 | 5 | 10 | 15 | 20 | 25 | Acceptable<br>Review<br>Unacceptable | <b>Likelihood</b><br>1 Very unlikely<br>2 Unlikely<br>3 Likely<br>4 Very likely<br>5 Almost certain | <b>Severity</b><br>1 No injury<br>2 Minor injury or illness<br>3 7 day injury or illness<br>4 Specified injury or illness<br>5 Fatality, disabling injury etc |
|          | 4 | 4 | 8  | 12 | 16 | 20 |                                      |   |   |
|          | 3 | 3 | 6  | 9  | 12 | 15 |                                      |   |   |
|          | 2 | 2 | 4  | 6  | 8  | 10 |                                      |   |   |
|          | 1 | 1 | 2  | 3  | 4  | 5  |                                      |   |   |
|          |   | 1 | 2  | 3  | 4  | 5  |                                      |   |   |

| Hazard   | Likelihood Rating | Severity Rating | Risk Rating | Control Measures   | Likelihood Rating | Severity Rating | Residual Risk Rating |
|--|-------------------|-----------------|-------------|--|-------------------|-----------------|----------------------|
| Poorly maintained plant.                                   | 1                 | 5               | 5           | All plant to receive 12 monthly thorough inspection and certification (PUWER).<br><br>All plant to be operated by suitably certificated and competent personnel.<br><br>All plant to be inspected daily prior to use. <b>DO NOT</b> use the plant if it is faulty.<br><br>Care to be taken when refueling plant. Do not spill fuels. Any fuel spillages are to be cleaned up immediately using spill kits provided. Used spill kits are to be disposed of at the designated location.<br><br>Plant is to be cleaned on the designated hard standing area as necessary to prevent the build up of oils/dusts on potentially hot surfaces. | 1                 | 5               | 5                    |
| Combustibility of materials used during treatment process. | 0                 | 5               | 0           | Ensure that the materials used during the treatment process are not combustible ( <b>bulk cement</b> - not combustible, not explosive; <b>Paper sludge</b> (circa 50% moisture content) - not combustible, not explosive).<br><br>Prevent the build up of combustible material in the immediate work area.   | 0                 | 5               | 0                    |
| Spontaneous combustion of materials.                       | 0                 | 5               | 0           | Treated materials are to be stockpiled in the designated location adjacent to the works; being isolated from all other works.<br><br>Materials are to remain in stockpile for a minimum duration. Initially, treated materials are to be stored in stockpiles circa 500m <sup>3</sup> immediately adjacent to the treatment operation to facilitate the required testing regime (circa 2 weeks). Post confirmatory testing, the stockpiles are to be relocated to the designated stocking area on the 'Old Tip' in preparation for placement (circa 1 week).   | 0                 | 5               | 0                    |

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| Severity | 5 | 5 | 10 | 15 | 20 | 25 | Acceptable<br>Review<br>Unacceptable | <b>Likelihood</b><br>1 Very unlikely<br>2 Unlikely<br>3 Likely<br>4 Very likely<br>5 Almost certain | <b>Severity</b><br>1 No injury<br>2 Minor injury or illness<br>3 7 day injury or illness<br>4 Specified injury or illness<br>5 Fatality, disabling injury etc |
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|          | 1 | 1 | 2  | 3  | 4  | 5  |                                      |   |   |
|          |   | 1 | 2  | 3  | 4  | 5  |                                      |   |   |

| Hazard  | Likelihood Rating | Severity Rating | Risk Rating | Control Measures   | Likelihood Rating | Severity Rating | Residual Risk Rating |
|---|-------------------|-----------------|-------------|--|-------------------|-----------------|----------------------|
| Spontaneous combustion of materials (CONTINUED) |                   |                 |             | Treated stockpiles are to be stored circa 5m apart to ensure that they remain separate and reduce the any potential risk of any fire spreading.<br><br>All stockpiles are to be uniquely identified to enable monitoring and recording of test information inc' storage durations / locations / placement etc.   |                   |                 |                      |
| Fuel storage.                                   | 1                 | 5               | 5           | All fuels are to be stored in locked bunded fuel tanks with keys held by the Site Manager.<br><br>All fuels are to be stored on hard standings away from works areas and environmental receptors.<br><br>Care to be taken when refueling plant. Do not spill fuels. Any fuel spillages are to be cleaned up immediately using spill kits provided. Used spill kits are to be disposed of at the designated location. | 1                 | 5               | 5                    |
| Smoking   | 3                 | 5               | 15          | No smoking is allowed on operational site at any time.<br><br>Smoking is only allowed in the designated smoking area.<br><br>All smoking materials are to be fully extinguished prior to disposal in the designated container.   | 1                 | 5               | 5                    |
| Hot works                                       | 5                 | 5               | 25          | All hot works are to be controlled using a 'Hot Works Permit' system.  | 1                 | 5               | 5                    |
| Arson   | 1                 | 5               | 5           | Site to be fully fenced and secure at all times. CCTV monitoring to be maintained during all works. Fencing repairs are to be enacted immediately.   | 1                 | 5               | 5                    |

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|                 |   |   |    |    |    |    |                                      |                   |                   |                 |
|-----------------|---|---|----|----|----|----|--------------------------------------|-------------------|-------------------|-----------------|
| <b>Severity</b> | 5 | 5 | 10 | 15 | 20 | 25 | Acceptable<br>Review<br>Unacceptable | <b>Likelihood</b> | <b>Likelihood</b> | <b>Severity</b> |
|                 | 4 | 4 | 8  | 12 | 16 | 20 |                                      |                   |                   |                 |
|                 | 3 | 3 | 6  | 9  | 12 | 15 |                                      |                   |                   |                 |
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|                 | 1 | 1 | 2  | 3  | 4  | 5  |                                      |                   |                   |                 |
|                 |   | 1 | 2  | 3  | 4  | 5  |                                      |                   |                   |                 |

|   |                |   |                                |
|---|----------------|---|--------------------------------|
| 1 | Very unlikely  | 1 | No injury                      |
| 2 | Unlikely       | 2 | Minor injury or illness        |
| 3 | Likely         | 3 | 7 day injury or illness        |
| 4 | Very likely    | 4 | Specified injury or illness    |
| 5 | Almost certain | 5 | Fatality, disabling injury etc |

| Hazard                                | Likelihood Rating | Severity Rating | Risk Rating | Control Measures   | Likelihood Rating | Severity Rating | Residual Risk Rating |
|---------------------------------------|-------------------|-----------------|-------------|--|-------------------|-----------------|----------------------|
| Arson (CONTINUED)                     |                   |                 |             | All plant to be relocated on hard standing away from work areas/combustible materials.<br><br>In the event that unauthorised persons are encountered on site, all works are to cease and the persons escorted off site.  |                   |                 |                      |
| Build up of combustible materials     | 2                 | 5               | 10          | Do not allow the build up of combustible materials on site.<br><br>All combustible materials are to be placed in the relevant containers; being disposed of off site at a suitable facility at the earliest opportunity.   | 1                 | 5               | 5                    |
| Insufficient fire fighting facilities | 2                 | 5               | 10          | Sufficient Fire Plan to be prepared and implemented for the site.<br><br>All site personnel to be made aware of the fire procedure at site induction.<br><br>Sufficient firefighting equipment to be held on site at all times (tractor and bowser - circa 7,500 litres capacity).<br><br>Sufficient on site water source available at all times (lodge).<br><br>Sufficient access arrangements to be in place for Emergency services. | 1                 | 5               | 5                    |