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## 1. Scope of Work

This specification requirement covers all the requirements that will be needed to inform the supplier to carry out what is expected from him/her: The contract will be awarded as a grass cutting, gardening, bush clearing and removal of the vegetation on perway project and the contractor will be responsible for all the work specified.

The scope of the work consists of:

- The felling of trees adjacent to live overhead electric cables and open lines within any area of the specified servitude as indicated in the schedule of quantities.
- The cutting of grass and edges -within any area of the specified servitude.
- The eradication of declared and invasive species within any area of the specified servitude.
- The clearing of bush encroachment within any area of the specified servitude.
- The removal of any vegetative material where required, as a result of all vegetation cutting activities specified in this contract in areas indicated.
- The chemical treatment as required of any trees, declared and invasive species, and any other vegetation specified in this contract within any area of the specified servitude.

**Control for trees and stump treatment:** *control is achieved when.*

- The constituent parts of all trees occurring within the area of treatment cease to exceed 100mm in height.
- The dead or dry remains of any vegetation within the treated area cease to exceed 1m to 1.5m in length.
- All cut vegetative material in the rail reserve within built up areas with housing and industries, or in areas otherwise as required, is to be removed from site and disposed of at a registered municipal dump.
- Alternatively cut vegetative material can be chipped with a chipper on site and the chipped material can be spread in the rail reserve. All chipped

material shall be spread no thicker than 500mm and so as not to clog or obstruct drainage beneath or alongside the track.

- At times of emergency work where tree felling is required, the supplier will be required to clear the track/roadway initially. Further logging and clearing of the area to make sure that culverts and drainage ditches are clear may take place during daylight hours within three days of the initial clearing.

**Control for grass cutting along open areas:** control is achieved when:

- The grass is cut to 100mm in height.
- Where a tractor with field master or a ride-on mower can be used, the Supplier may make use of this equipment at no additional cost other than the rates quoted.
- All vegetation cut within any built-up / residential and or industrial areas must be removed from the area within five working days of cutting.

**Control for declared and weeds and invader species:** control is achieved when:

- All existing or potential growth of the declared weeds and declared plant invaders are permanently impaired or destroyed by the application and effects of chemical herbicides, to the extent that the constituent parts of the declared weeds and declared plant invaders occurring within the area of treatment (worklots) cease to exist as living organisms or entities; and
- Any Declared and Invader plants that are cut, the remaining stumps are not left taller than 100mm in height, and that the remaining stumps cease to exist as living organisms or entities.
- The cut stumps are treated with a registered herbicide to prevent regrowth.
- No new growth, such as seedlings or saplings, of declared weeds or declared plant invaders, of any height occur; and
- There are no dead or dry remains of the vegetation within the treated area (worklot) which may constitute a hazard, danger, or hindrance to Transnet Freight Rail personnel, equipment trucks or operations.

- All cut vegetative material in the rail reserve along areas that are built up with housing and industries needs to be removed from site and disposed of at a registered municipal dump.
- Alternatively cut vegetative material can be chipped with a chipper on site and the chipped material can be spread in the rail reserve. All chipped material shall be spread no thicker than 500mm and so as not to clog or obstruct drainage beneath or alongside the track.
- All woody plants larger than one, (1) metre in height are cut and removed and cut stumps are treated with suitable herbicide.

Control constitutes a process or situation where the destruction of any new growth or re-growth of the declared weeds and declared plant invaders on treated areas occurs on an on-going basis and not only at the time of measurement and payment inspections.

All vegetative matter produced as a result of cutting of trees and shrubs must be removed from all cuttings and the top five meters of embankments.

All vegetative matter resulting from the cutting of Invader plants and from bush clearing shall be either mulched with a chipper or removed from the area where work has taken place, especially in cuttings and at approaches to tunnel portals. The material shall be cut up and spread in the reserve. No stacking of material to take place as to produce a fire hazard.

This specification states the minimum requirements relating to the work and in no way absolves the contractor from responsibility for cleaning services. Any omissions or sub-standard requirements of this specification must be brought to the attention of Transnet Engineering UITENHAGE MANUFACTURING PLANT at tender stage and optional prices for addressing such omissions must be provided.

The Supplier shall supply all the labour, tools, material, equipment, consumables, facilities, testing, and supervision required for the supply of the specified grass cutting, gardening and bush clearing services the duration of the contract.

## **2. Site Inspection**

Tenderers must visit the site to familiarize themselves with all the aspects involved relating to the project that must be done.

The Contract Manager or his/her deputy shall at any time during the operational periods carry out routine inspections of the Respondent's performance methods and procedures. The Contract Manager or his/her deputy shall, during the duration of the contract, carry out official inspections of the work for the purpose of evaluating whether control, as defined, has been achieved and measuring progress.

The inspections shall be performed visually, and the Supplier shall be present or forfeit his/her right to dispute the measurements and evaluation of the Contract Manager or his/her deputy. During each of these inspections the worklots treated will each be measured and evaluated. A worklot that does not comply with the specified level of control will be recorded as a "rejected worklot".

## **3. Information Required**

Tenderers shall confirm that the items that they are offering comply at a standard not less than the minimum required requirement asked for in the specifications. Tenderers must comply to these specifications, but alternative offers may, in addition, also be submitted. Such alternative offers must be fully motivated and substantiated.

	<b>Site Inspection</b>	
	<b>Site Inspection schedule</b>	<b>Comply Yes/No</b>
	This is to be conducted weekly by the contractor and a representative from PEMM Business.	
	<b>Site Plan</b>	
	<b>Site layout plan:</b>	<b>Comply Yes/No</b>
	A site plan is included with approximate areas for the Plant or Yard. Tenders are urged to align with the layout plan attached.	
	<b>Reports</b>	
	<b>Daily, Weekly and Monthly reports to be conducted as follows:</b>	<b>Comply Yes/no</b>
	checklists and attendance register must be submitted daily at PEMM business pertaining to services that are rendered by the contractor.	
	Invoices must be accompanied by the attendance register for the month and indicate daily attendance.	
	<b>Regulations and Standards:</b>	
	<b>Required compliance as follows:</b>	<b>Comply Yes/No</b>
	All plant and equipment provided by the contractor should be suitable for the purpose of the contract.	
	The following equipment and material will also be provided by the contractor: <ul style="list-style-type: none"> <li>• Herbicide`</li> </ul>	;
	Certain protected plant species and desirable plants are not to be controlled or removed and this plant will be identified by the Environmental Specialist prior to the start of the program.	

	The Contractor must submit with their tender a statement showing what vehicles plant, and equipment they propose to use and the way the service will operate.	
	The Contractor shall provide Transnet Engineering with the Risk assessment prior to commencement	
	The Contractor shall provide Transnet with the Material safety data sheet for the chemicals to be used.	
	The Contractor shall submit a plan of work to control vegetation as per this specification over a specific period agreed on by both parties.	
	The Contractor shall confine his work on Transnet property to normal working hours.	
	The Contractor shall provide his employees with outer clothing that will permit ready identification as well as a certificate of identity.	
	The Contractor shall nominate representatives of whom at least one shall be available at any hour for call-out in cases of emergency.	
	The Contractor shall comply with the provisions of the following: The Compensation of Occupational Injuries and Diseases Act (Act 130 of 1993) and the Occupational Health and Safety Act (Act 85 of 1993)	
	Registration at Dept. of Agriculture in weed/vegetation control. (Act.36 of 1949).	
	Contractor to ensure that when and as Species of Special Concern and Alien Invasive Species are identified that they controlled/removed them as describe in National Environmental Management: Biodiversity Act (Act 10 of 2004) or NEMBA Act.	
	Also see the attached Contractor SHE File Index Vegetation Control	
	The service provider must have specific knowledge and skill regarding Alien and Invasive species. Contractor must be able to identify, control (remove) and dispose of the removed species according to applicable legislation.	
	No work may be undertaken in which any part of a person's body or piece of equipment comes within three (3) meters of any high voltage electrical equipment without competent TE Supervision.	
	<b>Specific requirements</b>	

	The scope will cover the following:	Comply Yes/No																																				
	To provide grass cutting and gardening services at Uitenhage Plant.																																					
	The contractor shall provide fully equipped personnel for grass cutting and gardening services in the Uitenhage Plant.																																					
	Personal Protective Equipment to be used and worn and must comply with safety requirement as per Transnet standards, including any other PPE according to risk and safety assessment. PPE worn should be branded with the company name. No employee should wear the Transnet branded uniform.																																					
	<div><div><div><div><div><div>1. UITENHAGE MANUFACTURING PLANT: 12 PERSONNEL</div><div>(9 grasscutters and 3 gardeners including 1 working supervisor and tractor operator).</div><table><tr><td>UITENHAGE</td><td>Grass Cutters</td><td>Gardner</td><td>Total</td></tr><tr><td>UTH Manufacturing</td><td>9</td><td>3</td><td>12</td></tr><tr><td></td><td>9</td><td>3</td><td>12</td></tr></table></div></div></div><div><div><div>2. CAMBRIDGE LOCOMOTIVE, CAMBRIDGE WAGON, AND FOE: 5 PERSONNEL</div><div>(3 Grass cutters and 2 gardeners including working supervisor).</div><table><tr><td>CAMBRIDGE</td><td>Grass Cutters</td><td>Gardner</td><td>Total</td></tr><tr><td>Locomotives and Wagons / FOE</td><td>3</td><td>2</td><td>5</td></tr><tr><td></td><td>3</td><td>2</td><td>5</td></tr></table></div></div><div><div><div>3. SWARTKOPS LOCOMOTIVE and NEW BRIGHTON WAGONS: 5 PERSONNEL</div><div>(3 grass cutters, 2 gardeners including 1 working supervisor).</div><table><tr><td>SWARTKOPS / NB</td><td>Grass Cutters</td><td>Gardner</td><td>Total</td></tr><tr><td>Locomotives &amp; Wagons</td><td>3</td><td>2</td><td>5</td></tr><tr><td></td><td>3</td><td>2</td><td>5</td></tr></table></div></div></div></div>	UITENHAGE	Grass Cutters	Gardner	Total	UTH Manufacturing	9	3	12		9	3	12	CAMBRIDGE	Grass Cutters	Gardner	Total	Locomotives and Wagons / FOE	3	2	5		3	2	5	SWARTKOPS / NB	Grass Cutters	Gardner	Total	Locomotives & Wagons	3	2	5		3	2	5	
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	The Bidder’s method and program shall provide rapid and effective control in all areas. Techniques, programming, and chemical employed shall therefore be directed at his aim. The Bidder shall conduct immediate action to control growth in all instances where rapid and effective control is not achieved during any period of the contract.																																					
	Burning and hoeing (Scuffling) of plant material will not be allowed as a method of control. Control of vegetation must be means of chemicals.																																					



	<ul style="list-style-type: none"> <li>• Sweeping of all concrete surfaces in different Business Units</li> <li>• Picking up all type of litter</li> <li>• Safe disposal of all litter and waste material</li> <li>• Contractor to registered with waste facility site.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Lawn mowing of all lawns every week to height of 20- 25 mm to avoid inconsistent and uneven mowing of lawns.</li> <li>• All lawn mowing waste to be disposed immediately by supplier.</li> <li>• Fertilizer will be uniformly applied using a mechanical or calibrated hand spreader and may not be applied by hand. Transnet Engineering shall in each case first approve the brand and type of fertilizer.</li> <li>• After fertilization, all areas are to be thoroughly watered to avoid any possibility of burning and to encourage penetration to the roots.</li> <li>• Herbicide to be applied on pavement, parking and other walking area will be the supplier's responsibility and expense.</li> <li>• The above should also applied to weeds growing against building and workshops.</li> <li>• Care must be taken to avoid damage to plants and plant roots during the cultivation process. Should any plants die due to overzealous cultivation, the contractor will be liable to replace the said plants at his cost. Cultivate to ensure a loose surface with no compaction up to a depth of 50mm.</li> <li>• The contractor is to remove extraneous material brought to the surface.</li> <li>• The contractor shall ensure that flowering annuals are replaced before seasonal die back with other flowering annuals suited to the conditions and seasons.</li> <li>• Contractor must monitor, control, and remove invasive species as part of the contract when it is identified for the Uitenhage Plant. A fixed quote for trees to be quoted.</li> </ul>	
8.1.9	<p><b>Maintenance Of Trees and Veld Areas</b></p> <ul style="list-style-type: none"> <li>➤ Formative Pruning: <ul style="list-style-type: none"> <li>• Minimal formative pruning is to be conducted under the direction of the employer's representative as per price schedule.</li> </ul> </li> <li>➤ General Garden Services Required: <ul style="list-style-type: none"> <li>• Cutting of grass at the entrance</li> <li>• Garden maintenance around the office block.</li> <li>• Garden maintenance around the workshops.</li> <li>• Cut trees when required. Clean the area after cutting trees.</li> </ul> </li> </ul>	

8.1.10	<p><b>Alien Invasive Plant Eradication</b></p> <ul style="list-style-type: none"> <li>➤ Composting Site: <ul style="list-style-type: none"> <li>• A suitable site may be utilized for the establishment of a composting area.</li> <li>• All garden refuse, pruning and grass cutting are to be correctly stacked, dampened regularly and turned to provide a compost source. Transnet Engineering Uitenhage must approve the location of the site as well as the position of it.</li> <li>• All compost used for this contract shall be treated to ensure that seed and other unwanted material is sterilized.</li> </ul> </li> <li>➤ Weed Control: <ul style="list-style-type: none"> <li>• The contractor is to monitor constantly and to treat accordingly as and when required.</li> <li>• Natural approved organic pesticides are to be used. Should these fail only then, with the written approval of the employer, should inorganic chemical pesticides be used.</li> <li>• The application of pesticides is to be conducted fully in accordance with the manufactures specifications and must be carried out by a competent qualified person. The wearing of the appropriate clothing is essential.</li> <li>• The contractor shall implement recommendations for alien invasive assessment report to be issued by TE SHE Department (Environmental Specialist).</li> <li>• The contractor shall provide progress to eradication of the alien invasive species to the Asset Manager and SHE Department on agreed time frames.</li> <li>• The contractor shall identify all alien invasive plant species and constantly update the TE Alien invasive species inventory as and when a new species is identified or when it is eradicated.</li> <li>• The contractor shall apply the method of eradication as per recommendation of the report.</li> <li>• Any chemicals used for eradication must be as per report or if the contractor can provide an alternative chemical available in the market, the chemical must be approved by the risk office prior to purchase or use.</li> <li>• The contractor shall store and use the chemicals in a safely manner.</li> <li>• The contractor shall prioritise removal of Declared Category 1 Invasive Alien Plant Species as listed by the Conservation of Agricultural Resources Act 43 of 1983. i. e. <i>chromolina Odorata</i>, <i>Solanum mauritianum</i>, <i>Bugweed</i>). And eventually all alien invasive plant species prohibited for growing, planting or propagation shall be eradicated over time.</li> <li>• Manual uprooting of weeds should be promoted where possible and safe to do so.</li> </ul> </li> </ul> <p>NB: The contractor must possess verifiable knowledge, skill and information of invasive alien species and eradication methodologies.</p>	
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8.1.11	<p><b>Leaf, Litter and Garden Refuse Removal</b></p> <p>➤ General:</p> <ul style="list-style-type: none"> <li>• The contractor shall be responsible for the removal of the day-to-day refuse accumulated during the maintenance process. All refuse generated is to be removed from garden areas at the end of each day (Monday - Friday).</li> <li>• The contractor is not to leave stockpiles of leaves, grass clippings and other refuse overnight. All organic refuse is to be taken to an allocated composting site, if available or removed to a dumping ground of the contractor's choice.</li> <li>• All roads, pathways and parking areas are to be kept swept and clean of litter, leaves, grass, and weeds.</li> </ul> <p>➤ General Litter and Rubbish:</p> <ul style="list-style-type: none"> <li>• The contractor is responsible for the day-to-day collection of garden related litter on the site and the placement thereof in waste bins.</li> <li>• All litter and rubbish (including papers, cans, cigarette butts etc), which accumulate on site from whatever source, shall be removed to the bins or skips provided. The contractor shall not be responsible for the removal of rubble from another Contractor or Sub-contractor. This rubbish and litter will be placed on the outside of buildings and will be collected and removed to the waste bins provided for this purpose.</li> <li>• The contractor is not permitted to dump the garden refuse into the bins or skips provided for litter.</li> <li>• The contractor shall notify the employer when the litterbins or skips are overflowing before the scheduled collection date, so that arrangements can be made to have these removed from site immediately.</li> <li>• The contractor will be responsible to ensure that all areas are kept clean and that the litter is removed daily Monday to Friday.</li> </ul> <p>All sidewalks and road shoulders next to all roads should be cleaned three times a week, between 07h30 &amp; 15h30.</p>	
8.1.12	<p><b>Removal of vegetation on the railway lines.</b></p> <p>➤ Scope of work:</p> <ul style="list-style-type: none"> <li>• The Contractor shall be responsible for the removal, control, and ongoing maintenance of all vegetation within the designated railway line corridors as specified Transnet Engineering Uitenhage. This includes, but is not limited to, the removal of weeds, grasses, shrubs, invasive species, and any other plant material that may obstruct railway operations or pose a safety hazard.</li> </ul>	

	<p>➤ Methods of Vegetation Control:</p> <ul style="list-style-type: none"> <li>• Acceptable methods for vegetation control include mechanical removal (e.g., brush cutting, mowing), manual removal, and the selective use of approved herbicides. The Contractor must obtain prior written approval from the Employer for the use of any chemical treatments and provide Material Safety Data Sheets (MSDS) and application plans.</li> </ul> <p>➤ Schedule and Frequency:</p> <ul style="list-style-type: none"> <li>• Vegetation control shall be conducted on a regular schedule which is <b>FOUR</b> times a year/ quarterly, and additionally as required to maintain clear and safe railway access. Emergency vegetation clearance shall be conducted within 24 hours of notice from the Employer.</li> </ul> <p>➤ Waste Disposal:</p> <ul style="list-style-type: none"> <li>• All vegetation waste must be removed from the site and disposed of in accordance with local environmental regulations. No waste may be left on or near the railway line.</li> </ul>	
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8.1.13

**BUSH CLEARING** should be allowed for Cambridge Locomotive and Uitenhage Main Centre as per the sections below (Area indicated are close approximations)

Please note that should the entire area not be needed for any of the sections, the costs will be reduced to exclude the days plant and equipment are not required, disposal of waste which would now be reduced in volume. Therefore costing on the Bill of quantities should be done in m2 for this section.

**Cambridge Locomotive:**

Section 1 : 14, 400m<sup>2</sup>

Section 2 : 7, 600m<sup>2</sup>

Section 3 : 9, 800m<sup>2</sup>

Section 4 : 22, 000m<sup>2</sup>

Section 5 : 20, 000m<sup>2</sup>

**Uitenhage Main Centre:**

Section 1 : 183,300 m<sup>2</sup>

Section 2 : 84,400 m<sup>2</sup>

Section 3 : 169,219 m<sup>2</sup>

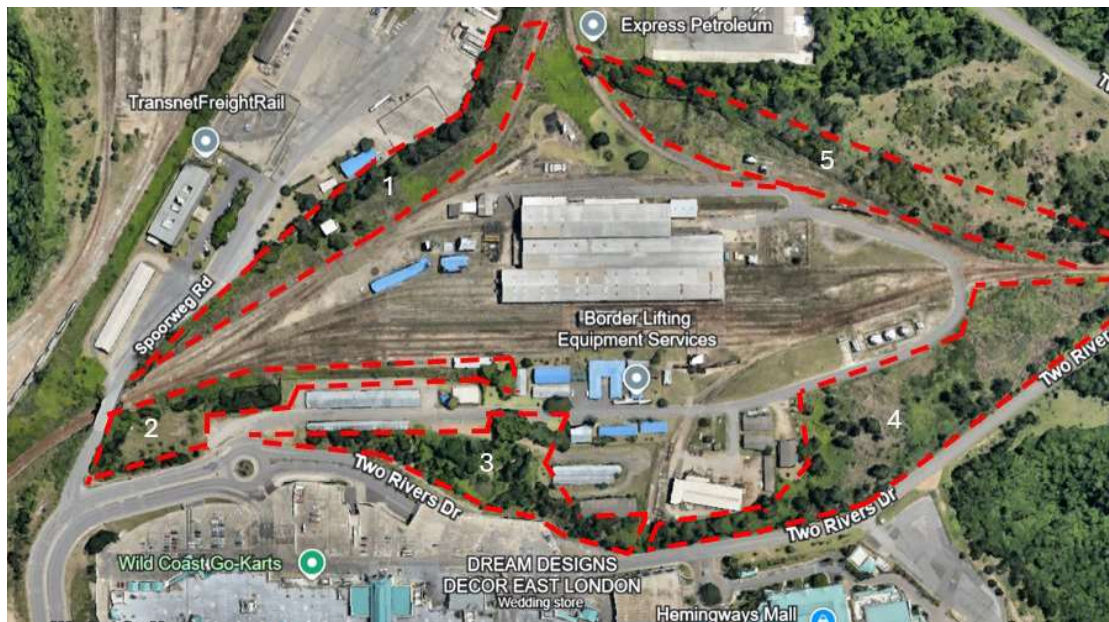


Figure 1: Cambridge Locomotive





Figure 2: Uitenhage Main Centre

### 1.Scope of Services

This specification outlines the requirements for applying long-term herbicide following bush clearing activities to suppress vegetation regrowth in servitudes, fence lines, access roads, rail reserves, or other non-crop, industrial zones.

**If a decrease in frequency at which bush clearing is required does not occur, the appointed service provider will have to credit the amount paid for such services as it would not have been done as per specifications.**

### 2. Site Preparation

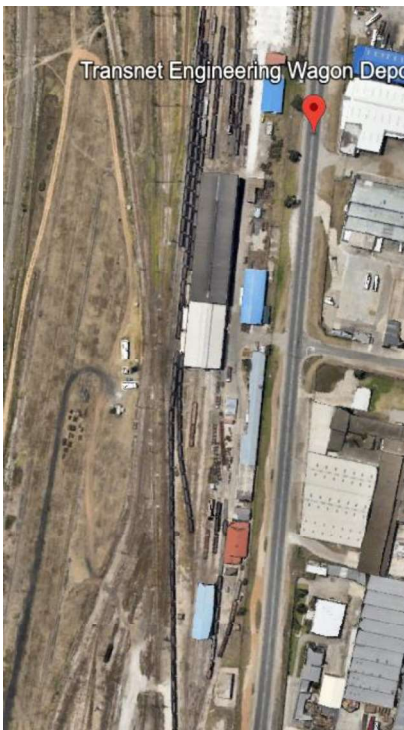
- All brush, weeds, and woody vegetation must be removed by mechanical or manual means.
- Stumps to be treated immediately after cutting where applicable.
- Clear pathways for uniform herbicide applications.

### 3. Herbicide Requirements

- **Product:** Tebuthiuron 200G (or approved equivalent)
- **Application Rate:** 1.5–2.0 kg/ha for light vegetation; up to 4.5 kg/ha for dense woody regrowth control
- **Form:** Granular, applied using spreader or by hand
- **Residual Effect:** Minimum 24 months suppression under standard South African climatic conditions
- **Reapplication Interval:** No sooner than 24 months unless new growth appears

	<p><b>4. Application Conditions</b></p> <ul style="list-style-type: none"> <li>• Apply just before seasonal rainfall or irrigate post-application (minimum 12 mm) to activate the product.</li> <li>• Avoid application near: <ul style="list-style-type: none"> <li>i. Watercourses or boreholes (&lt;30 m buffer required)</li> <li>ii. Croplands or protected flora</li> <li>iii. Areas prone to erosion or where soil runoff may occur</li> </ul> </li> </ul> <p><b>5. Health, Safety &amp; Environment</b></p> <ul style="list-style-type: none"> <li>• Operator must wear PPE: gloves, eye protection, respirator.</li> <li>• No handling by untrained personnel.</li> <li>• Comply with: <ul style="list-style-type: none"> <li>i. <b>Fertilizers, Farm Feeds, Seeds and Remedies Act (Act 36 of 1947)</b></li> <li>ii. <b>National Environmental Management Act (NEMA)</b></li> <li>iii. <b>SANS 10206: The handling, storage and disposal of pesticides</b></li> </ul> </li> <li>• Waste or empty containers to be disposed of at a registered hazardous facility.</li> </ul> <p><b>6. Documentation And Approval</b></p> <ul style="list-style-type: none"> <li>• Submit MSDS for herbicide used</li> <li>• Log dosage, location, date, and weather conditions for each application</li> <li>• <b>No substitution without prior approval from the Risk Manager and Facilities Manager</b></li> </ul>	
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## Map of Swartkops and New Brighton





Map of Locomotive FOE Wagons

