

**SAMI BITUMEN TECHNOLOGIES PTY LTD**  
**Pollution Incident Response Management Plan (PIRMP)**  
**SBT Camellia NSW - Production Facility**  
**Date: 04/01/2020 REVISION 8**



**SAMPLE DOCUMENT**

**FOR**

**REFERENCE ONLY**

## PIRMP SITE ASSESSMENT SHEET

LIST OF POLLUTING SUBSTANCE STORAGES/USES AT SITE INITIAL ASSESSMENT (all Chemicals listed in this sheet are to be subjected to a risk assessment)		
<b>Site Name:</b> SAMI Bitumen Technologies Pty Ltd	<b>Responsible Person:</b> Sebastien Chatard SAMI GM	<b>Revision Date:</b> <span style="color: red;">04/01/20 (V8)</span>
<b>Address:</b> 12 Grand Avenue Camellia NSW	<b>PIRMP Prepared by:</b> Ian Leask SAMI SCA Coordinator NSW/VIC	<b>Drill Date:</b> <span style="color: red;">Scheduled for Jul 2020</span>

Name / description	Covered under Haz Chemicals/SDS?	Max. Amount stored	Location of storage	Site reference	Need for early warning <sup>1</sup>	Current controls	See Risk Ass & PIRMP Response Action (see Below)
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CHEMICALS / FUELS /LUBRICANTS (raw materials and products which can cause pollution)							
Diesel	Class 3	66,000 Litres	SBT Plant Above Ground Storage tanks 3 x 20,000 Litres Tanks 7/8/9	Ref No 1	No	<ul style="list-style-type: none"> <li>Bunding</li> <li>ERP</li> <li>Training</li> <li>Spill Kits</li> <li>WI (Work Instructions)</li> <li>Inductions</li> <li>Fire Fighting Equipment</li> <li>Security</li> </ul>	Incident # 1 / 2
Kerosene	Class 3	66,000 Litres	SBT Plant Above Ground Storage tanks No's 4, 5, 6	Ref No. 7	No	<ul style="list-style-type: none"> <li>Bunding</li> <li>ERP</li> <li>Training</li> <li>WI (Work Instructions)</li> </ul>	Incident # 1 / 2

<sup>1</sup> Early warnings relate to informing neighbours who may be affected by the emission of this substance. If this substance is of a type and quantity which may reach neighbour's then early warning assessment of actions is required to be undertaken.

						<ul style="list-style-type: none"> <li>• Spill Kits</li> <li>• Inductions</li> <li>• Fire Fighting Equipment</li> </ul>	
<b>MATERIALS (eg stockpiles, silos, bulk solids etc) – Vehicles used to load and move raw materials</b>							
LPG Gas Storage Tank	Class 2	6000 Litres	Gas Storage Area	Ref No. 8	No	<ul style="list-style-type: none"> <li>• ERP</li> <li>• Training</li> <li>• WI (Work Instructions)</li> <li>• Inductions</li> <li>• Fire Fighting Equipment</li> </ul>	Incident # 7
<b>AQUEOUS (eg dams, wastewater tanks, other water storage area)</b>							
Settling Pond	N/A	Variable	Settling Pond	Ref No 11	N/A	<ul style="list-style-type: none"> <li>• Continue to irrigate to maintain levels of dams.</li> <li>• Ensure pumps are maintained through scheduled maintenance</li> <li>• Sample as required</li> </ul>	Incident # 10
<b>SUBSTANCES IN PROCESSES (substances which could be emitted from operational process i.e. treatment plants, vehicles etc)</b>							
Name / description	Covered under Haz Chemicals/SDS?	Amount stored	Location of storage	Map reference	Need for early warning <sup>2</sup>	Current controls	See Risk Ass & PIRMP Response Action (see Below)
Mobile Plant (onsite) SBT/SRS	Class 3	Up to 15 MP on site	Dedicated on site Ref No. 14	N/A	N/A	<ul style="list-style-type: none"> <li>• Spill Kits</li> <li>• Pre start checks</li> <li>• PMP</li> <li>• Training</li> </ul>	Incident # 11 / 1 / 2

<sup>2</sup> Early warnings relate to informing neighbours who may be affected by the emission of this substance. If this substance is of a type and quantity which may reach neighbours then early warning assessment of actions is required to be undertaken.

**IMPACT ON NEIGHBOURS ASSESSMENT – EARLY WARNINGS**

Site Name: SBT Camellia			Responsible Person: Shan Ruprai	Date: 04/01/2020
Incident type/description	External Release (air, waterway etc)	Neighbors impacted/extent of impact	Communication methods Early warnings	Actions and other control measures (eg posting on website, community group meetings)
<b>Emergency Drills Conducted</b>				
Date	Practice Drill Completed	Type of Drill	Rating 1-5 on Effectiveness	Comment
05.09.2016	Yes – with alarm activation	Bitumen Spill – Loading Tanker	2	SBT Plant and Laboratory staff responded

## RISK ASSESSMENT MATRIX

TABLE 1: Measures of Consequence		
Value	Description	Impact
1	Major	Off –site release regional or national impact long term damage with specialist clean up required
2	Moderate	On-site release immediately contained with outside assistance
3	Minor	On-site release immediately contained

TABLE 2: Measures of Likelihood		
Value	Description	Impact
1	Highly Likely	The event could occur weekly in normal circumstances.
2	Likely	The event could occur once per month
3	Unlikely	The event could occur once every one to five years.

TABLE 3: Risk Ranking Table			
Consequence \ Likelihood	Major (1)	Moderate (2)	Minor (3)
Highly Likely (1)	H (1)	H (2)	M (3)
Likely (2)	H (2)	M (4)	L (6)
Unlikely (3)	M (3)	L (6)	L (9)

### RISK ASSESSMENT on POTENTIAL IMPACTS

Review Date 16<sup>th</sup> September 2014 - Reviewed By I Leask SCA Coordinator NSW / VIC

Name of product / chemical	Description of Hazard / Incident leading to hazard	Risk	Impact on neighbours <sup>3</sup>	Description of Consequence and Likelihood from an environmental release perspective only	Responsible person	Action date
<b>Diesel</b> <b>Cutback Bitumen</b> <b>Kerosene</b> <b>Oils</b> <b>Lubricants</b>	<b>Incident #1</b> Major failure of above ground storage tanks.	<b>LOW</b>	<b>NO</b>	Consequence: (Minor): Failure resulting in loss of all or substantial volume of tanks would be captured entirely by existing primary bund system with no release to soil or water. Contents of the tank would be contained within the site bunded area. Any excess would be directed to the on-site retention area and/or settling pit where it could be collected/pumped out for recycling/disposal.  Likelihood: (Unlikely): Due to tank protection (physical Barriers) & location within bund, damage to tanks is unlikely to occur from external equipment. In addition tanks are maintained in good structural integrity with low risk of failure through corrosion.	As per PIRMP action plan	When required
	<b>Incident #2</b> Fire involving storage tanks	<b>MED</b>	<b>YES</b>	Consequence: (Serious): Fire consuming one or more of the liquid chemical storage tanks. Potential atmospheric contamination with noxious or toxic fumes likely.  Likelihood: (Unlikely): All tanks and distribution pipe work is electrically isolated and earthed from static build-up. Pumps are earthed and there are no other potential ignition sources within the tank areas. Flexible hoses, heating, and pumping equipment are earthed and are maintained. Fire fighting equipment is readily available and suitable.	As per PIRMP action plan	When required

<sup>3</sup> If the incident may impact on neighbours then it will need to trigger the early warnings assessment and actions

## PIRMP RESPONSE ACTIONS

### ACTIONS FOR MINOR PRODUCT SPILLS

<p><b>Applicable to</b></p> <p><b>Incident # 13</b> <b>Incident # 14</b> <b>Incident # 15</b></p>	<p>Actions applicable for control of minor product spill outside designated storage areas</p> <p>Actions Required:</p> <ul style="list-style-type: none"> <li>• Contact (SCA Coordinator NSW) or (Group SCA Manager) and provide details of incident including:             <ul style="list-style-type: none"> <li>○ Situation (eg. Land, air, water contamination/discharge)</li> <li>○ Product</li> <li>○ Quantity</li> <li>○ Extent</li> <li>○ Possible clean-up cost consequences (possibility of contaminant leaving site)</li> </ul> </li> <li>• SCA Coordinator NSW or Group SCA Manager to contact all relevant people/department (refer to Immediate Reporting Contact Sheet) if required</li> <li>• Ensure spilt material is prevented from spreading further by applying:             <ul style="list-style-type: none"> <li>○ Applying suppressing material to contain/absorb spill</li> <li>○ Placing bunds and/or material to contain spill</li> <li>○ Blocking drains and vents to prevent escape of product</li> <li>○ Collecting spilt product</li> </ul> </li> <li>• Ensure site bund integrity is sound throughout the entire period of incident (i.e. periodic inspections)</li> <li>• Area to be restricted to allow cleanup to proceed without disturbance</li> <li>• Ensure spill kit is restocked on completion</li> <li>• Implement actions to prevent re-occurrence</li> </ul>
<p><b>Alarm raising</b></p>	<p>Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.</p>
<p><b>Emergency Controller</b></p>	<ul style="list-style-type: none"> <li>• SCA Coordinator NSW (reporting to Group SCA Manager)</li> <li>• Call service provider (Group SCA Manager)</li> <li>• Spill Kit manager (Site Supervisors)</li> <li>• Periodic inspections and update reporting of site and bund (Group SCA Manager) As per Annual HSE Monitoring Plan</li> </ul>
<p><b>Scale of incident</b></p>	<p>Incident would be restricted to Plant and chemical storage area with minimal external impact, however, potential for bund overflow or failure may result in soil and surface water contamination. The risk of contaminated liquid materials or water leaving the site is low</p>
<p><b>Evacuate</b></p>	<p>No</p>



<b>Communications</b>	<p>Internal:</p> <ul style="list-style-type: none"> <li>• Plant Manager</li> <li>• Group SCA Manager</li> </ul> <p>External mandatory:</p> <ul style="list-style-type: none"> <li>• Immediate Reporting Contact Sheet to be used</li> <li>• Group SCA Manager or Delegate to report</li> </ul> <p>External non-mandatory: N/A</p>
<b>Rescuer / respondent + safety checks</b>	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
<b>Rescue + First Aid</b>	As per Site Emergency Plan or Fire Department as part of Immediate Reporting
<b>Clean up and Waste disposal</b>	As required, refer Waste Disposal Procedure (MSP22W-Waste management)
<b>Reporting and re-preparedness</b>	See site ERP

### ACTIONS FOR FIRE IN LPG GAS STORAGE TANK

<b>Incident # 7</b>	<p>Accidental discharge from settling pond</p> <p>Actions Required:</p> <ul style="list-style-type: none"> <li>• Contact (SCA Coordinator NSW) or (SCA Manager CAG) and provide details of incident including: <ul style="list-style-type: none"> <li>○ Situation which led to the discharge</li> </ul> </li> <li>• SCA Coordinator NSW or SCA Manager CAG to contact all relevant people/department (refer to Immediate Reporting Contact Sheet) if required</li> <li>• Contact emergency services – Fire and Rescue</li> <li>• Evacuate Office and HR Hut to Workshop</li> <li>• Ensure area is isolated from Tankers / Vehicles</li> <li>• Maintain continuous water flow to tank surface to keep tank cool until tank has vented</li> <li>• Area to be restricted to Incident Response Personnel</li> <li>•</li> </ul>
<b>Alarm raising</b>	Any personnel involved or witnessing incident to report to immediate supervisor and PIRMP actions to be implemented.
<b>Emergency Controller</b>	<ul style="list-style-type: none"> <li>• WHSEQTR Coordinator NSW (reporting to Group SCA Manager)</li> <li>• Call service provider</li> </ul>

	<ul style="list-style-type: none"> <li>Spill Kit manager (Site Supervisors)</li> </ul>
<b>Scale of incident</b>	Moderate. Risk of explosion and fire
<b>Evacuate</b>	Yes
<b>Communications</b>	Internal: <ul style="list-style-type: none"> <li>Plant Manager</li> <li>Group SCA Manager</li> </ul> External mandatory: <ul style="list-style-type: none"> <li>Immediate Reporting Contact Sheet to be used</li> <li>Group SCA Manager or Delegate to report if required</li> </ul> External non-mandatory: N/A
<b>Rescuer / respondent + safety checks</b>	As per Site Emergency Plan
<b>Rescue + First Aid</b>	As per Site Emergency Plan
<b>Clean up and Waste disposal</b>	Should not be required
<b>Reporting and re-preparedness</b>	<ul style="list-style-type: none"> <li>Refer ERP</li> </ul>

### SBT CAMELLIA - Dangerous Goods Manifest 2014

Container ID	Proper Shipping Name	Storage Area	Container Type	Max Quantity Stored KG/L	UN Number	DG Class	Packaging Group	Hazchem Code
Tank 1B	Elevated Temperature Liquid N.O.S.	Sub Area 3	Bulk Tank	90,000 L	3257	9	III	2W
Tank 2B	Elevated Temperature Liquid N.O.S.	Sub Area 3	Bulk Tank	90,000 L	3257	9	III	2W
Tank 3B	Elevated Temperature Liquid N.O.S.	Sub Area 3	Bulk Tank	90,000 L	3257	9	III	2W