Attachment 3B:
Proposed Activities

R & L Bitumen Services Pty Ltd
a division of Spinifex Crushing and Screening Services Pty Ltd
ACN 135 324 551 128 Albany Highway, Albany WA 6330

Prepared for:
Department of Water and Environmental Regulation
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Attachment 3B: Proposed Activities
Applicant: Spinifex Crushing and Screening Services Pty Ltd
Premises: Rocky Crossing Asphalt Plant (Category 35)

Operational Description
The Rocky Crossing Asphalt Plant is a mobile batch-mix asphalt manufacturing facility operating under Category 35. The plant produces hot-mix asphalt for supply to external construction projects.

Production Capacity and Operating Hours
- Maximum annual production: 5,000 tonnes per annum
- Maximum daily production: 400 tonnes per day (based on demand)
- Operating hours: 7:00 am to 5:00 pm, Monday to Saturday

Process Description The manufacturing process involves the following steps:
- Aggregate and sand are stored in five three-sided steel bins. Materials are delivered damp, covered with tarps, and kept damp using a sprinkler system.
- Materials are transferred by front-end loader into the cold feed unit and then into the insulated rotary dryer drum, where they are heated to approximately 160°C using a diesel burner.
- Heated aggregate is transferred to the insulated pug mill and mixed with low-sulphur bitumen injected from the heated 40,000 L tanker.
- The finished asphalt is deposited into the gob-hopper and loaded into trucks via a covered conveyor. Trucks are tarped before leaving the site.

Key Emission Controls
- Dust: Materials kept damp, tarped storage bins, sprinkler system, watered hardstand (November to April), and covered load-out conveyor.
- Odour: Low-sulphur bitumen, condenser fitted to the bitumen tanker, vapours directed to the baghouse, and temperature controlled below 180°C (with immediate reduction if blue smoke is observed).
- Air emissions: All dryer and mixing vapours are treated through the baghouse filter system (224 filter bags, automatic reverse-pulse cleaning, broken bag detection, temperature alarms) before discharge via the 12 m stack. Filtered dust is recycled back into the pug mill.
- Noise: 4 m high noise mitigation bund (130 m long) along the eastern boundary, boiler housed in an east-facing clad shed, and plant operated within specified sound power levels.
- Stormwater: Contaminated runoff from the plant area is directed to a 20 m^3 sump with spongolite rock cages, treated through a reed bed, and infiltrated into an on-site retention basin. Clean stormwater is diverted away from the process area.

No native vegetation clearing is proposed. No external waste is accepted at the premises. Filtered baghouse dust is recycled into the production process.