

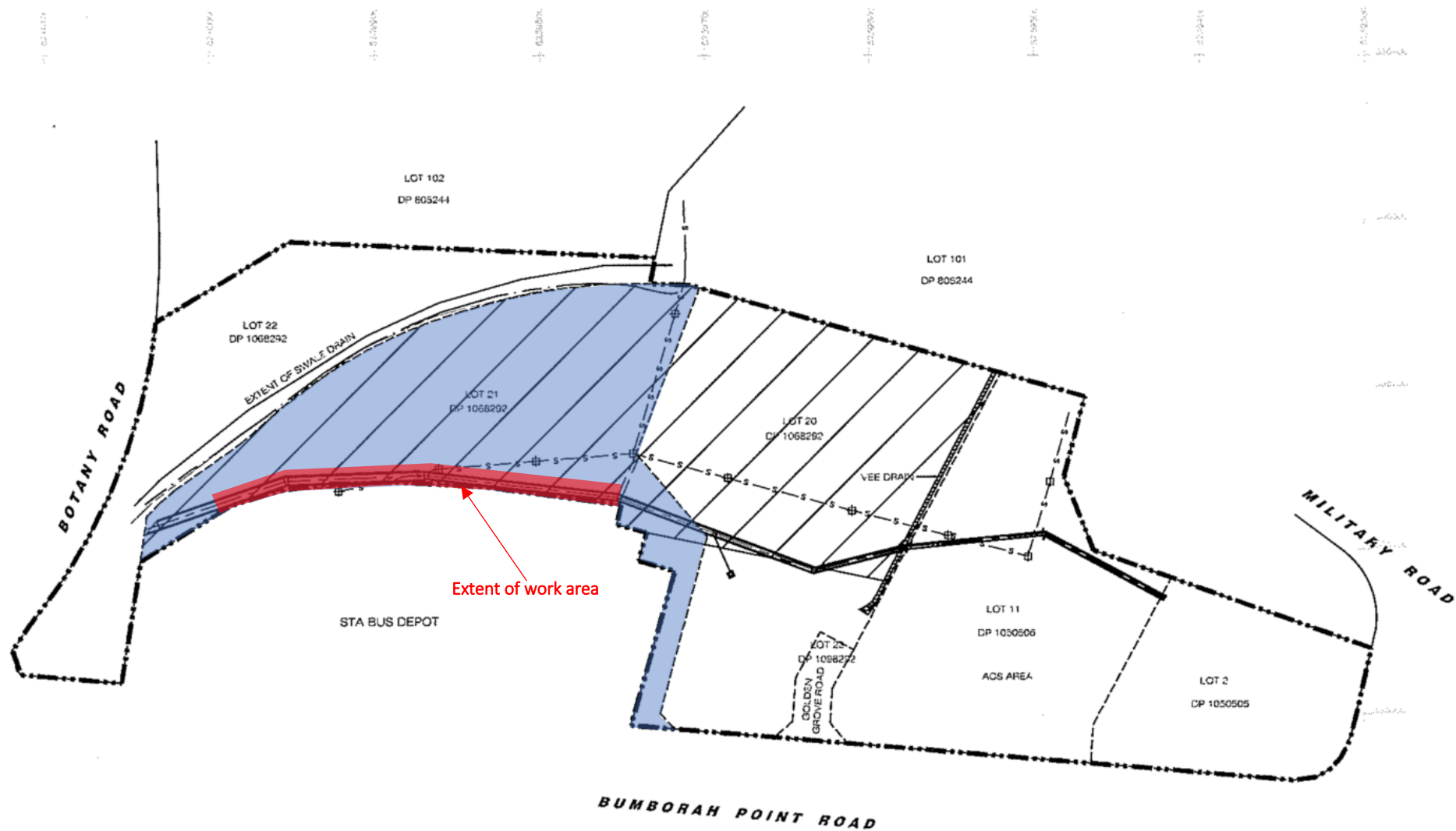
Site Contamination

The Works involve the excavation of existing landscape soils and sub-grade material for disposal off-site. The Site is located on previously remediated land that include containment cells and has an approx. capping layer of 450mm over geo-liner. Below the geo-liner is contaminated material. Refer to Site Plan attached.

The risk of significant impacts will be mitigated by following the below measures, which have been adopted from *SMP for the Bunnerong Power Station Site, prepared by URS Australia for Sydney Ports Corporation*.

Aspect → Impact	Control Measure	Residual Risk Rating	Responsibility	Check
		R		
Contaminated soil → Ground and/or Water contamination / Adverse health impacts	Project-specific Induction Module to include the presence of contaminated material below geo-liner. All staff and contractors to be adequately inducted prior to commencing works. Refer to <i>Site Management Plan for the Bunnerong Rd Power Station Site</i> prepared by URS; dated 17 March 2010. Part of the site remains uncapped and certain stages of the project will be undertaken in those areas.	H6	Site Manager Machinery Operators Spotters	Protection of the Environment Operations Act 1997
	Toolbox Talks to highlight the presence of capped contaminated material on the Site.		Site Manager	Code of Practice - Blue Book (soils & Construction Volume 1)
	All machinery operators undertaking sub-surface works must have a dedicated Spotter.		Site Manager Machinery Operators Spotters	NSW Code of Practice - How to Manage and Control Asbestos in the Workplace
	Implement Unexpected Finds Protocol (attached)		Site Manager	Unexpected Finds Protocol
	Where excavation is required; 1. In capped material; a. <u>above marker layer</u> - care should be taken to monitor the depth of earthworks as not not penetrate the geofabric marker layer - excavated capping material should be returned to the excavation and original soil surface restored, providing a smooth free-draining surface - Excess capping material will be either re-used on site (in the first instance) or disposed off-site at a controlled EPA licensed facility/landfill		Site Manager Machinery Operators Spotters	SMP for the Bunnerong Power Station Site, Lots 11, 20, 21, 22 and 23 Bumborah Point Road, Port Botany

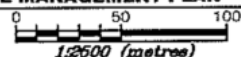
	• 'clean' material requiring stockpiling on-site should be done so as to not potentially come into contact with 'contaminated' soils • Stockpiles to be bunded, sediment protection and dust management measures to be put in place immediately after stockpiles are created. b. <u>below marker layer</u> • care should be taken to ensure underlying potentially impacted material does not come into contact with 'clean' capping material • should underground structures be encountered (such as former cooling canal, stormwater culvert, sewer main) works are to cease and NSW Ports to be informed immediately. • Where possible, and in the first instance, all excavated potentially impacted soil will be reused onsite by returning the contaminated soil to the excavation, compacting and the marker layer replaced, prior to replacing the clean capping layer above • Any excess material excavated from below the marker layer that cannot be reused, will be disposed off-site at a controlled EPA licensed facility (all required testing to be undertaken) • Excavated material requiring stockpiling on site will be done so as to not potentially come into contact with 'clean' soils. • Stockpiles to be bunded, sediment protection and dust management measures to be put in place immediately after stockpiles are created. 2. In <u>uncapped areas</u>; • It is noted that the uncapped areas of the Site have been validated as suitable for industrial land use. • Should unexpected conditions be encountered in these areas, cease work immediately, initiate <i>Unexpected Finds Protocol</i> and notify ACFS and NSW Ports			
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LEGEND

- LOT BOUNDARIES
- PROPERTY BOUNDARY
- STORMWATER CULVERT
- CARPING AREA
- SEWER

CLIENT: SYDNEY PORTS CORPORATION				TITLE: LAYOUT OF SITE FOLLOWING REMEDATION			
PROJECT: FORMER BUNNERONG POWER STATION SITE MANAGEMENT PLAN							
		DESIGNED: DM	APPROVED:	PROJECT: 43346010			
		DRAWN: AJW	DATE:	CAD FILE: 002.DWG			
		DATE: 21/10/09	STATUS: FINAL	REVISION: B			
						FIGURE 7	



Unexpected Finds Protocol

