

Figures



PROJECT ID: S4150010
 CREATED BY: TO
 LAST MODIFIED: TO 27 07 2010
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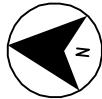
AECOM

Site Location

Lend Lease (Millers Point) Pty Ltd
 Human Health and Ecological Risk
 Assessment
 Barangaroo
 Hickson Road, Millers Point NSW

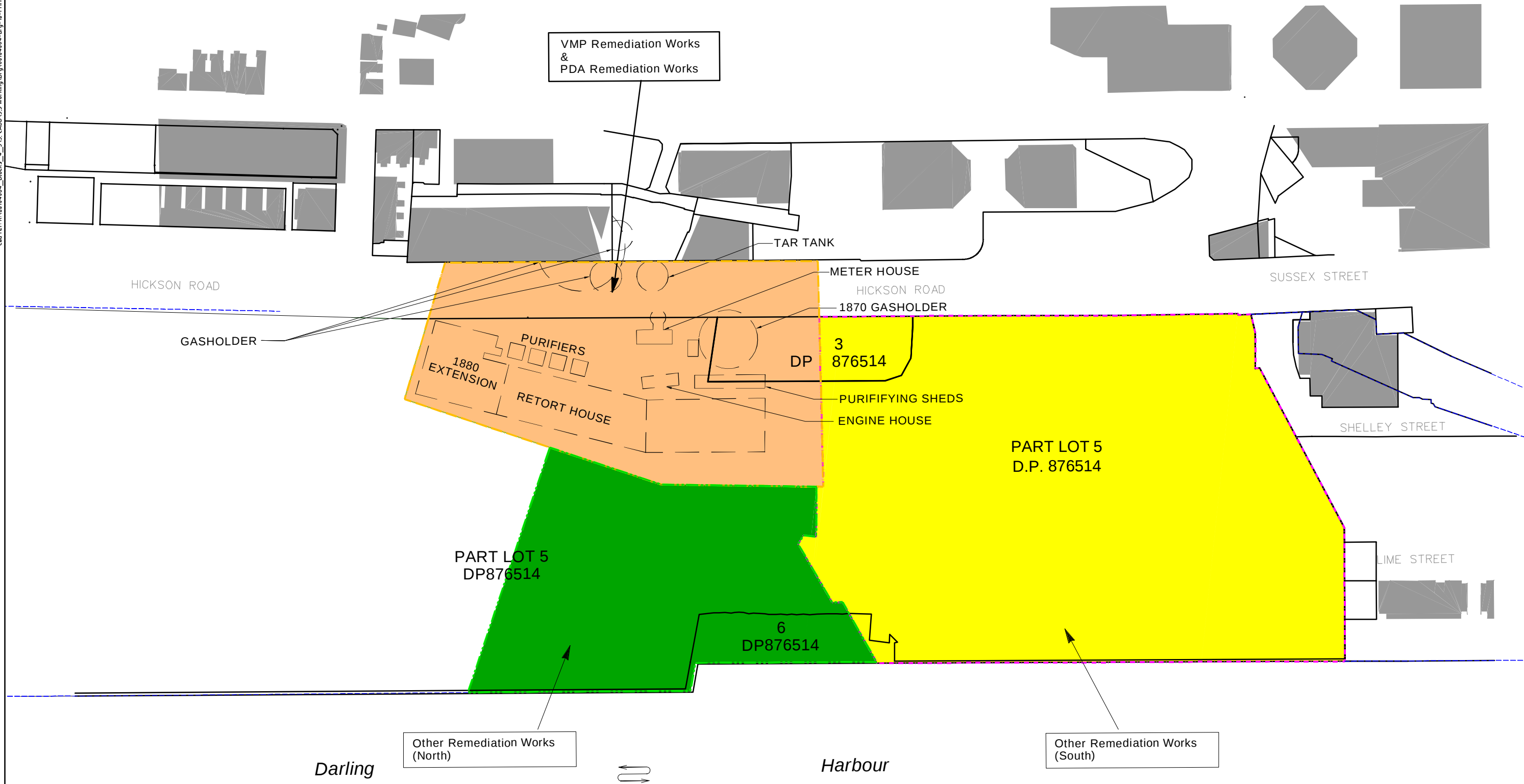
Figure
F1

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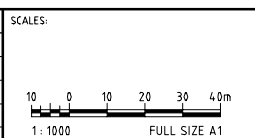


LEGEND:

- VMP/PDA REMEDIATION AREA SITE BOUNDARY
- APPROXIMATE EXTENT OF FORMER GASWORKS FEATURES



REVISIONS				
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No.	BY	DATE	DESCRIPTION	APPD
01	SS	28.03.2011		AKL



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DESIGNED	GW	CHECKED	AKL
DRAWN	SS	CHECKED	JA
APPROVED	AKL	DATE	28.03.2011

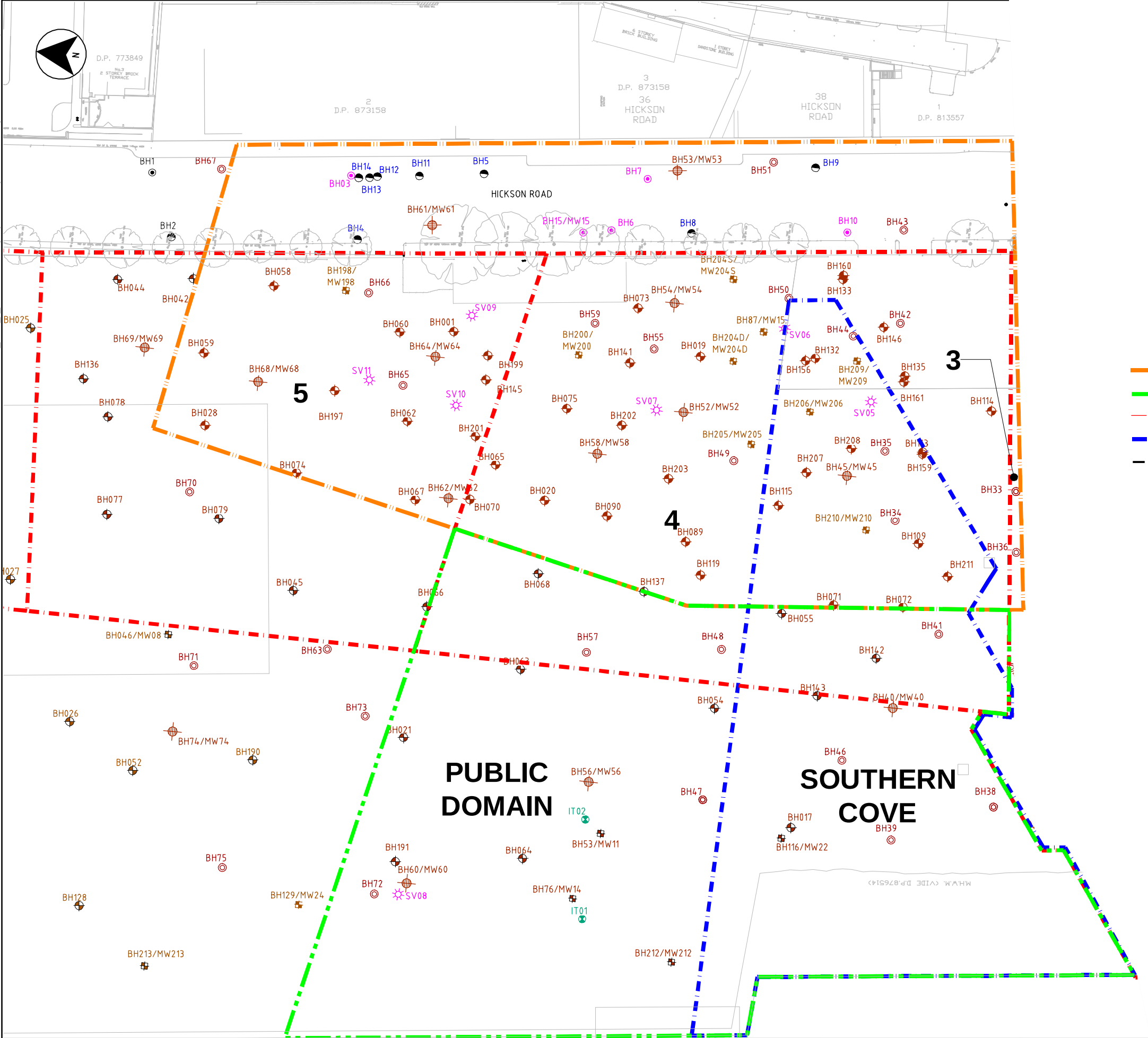
DESIGNER:

AECOM

AECOM Australia Pty Ltd A.B.N. 20 093 846 925

HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT		
FIGURE F2 SITE LAYOUT AND SURROUNDING AREA		
STATUS:	DRAWING NO:	REV:
FINAL	60104064-DRG-10-PHHERA-F2	01

Cad ref: K:\A1010464_Blocks_4_SIS_CADD\53 Working\Dr\60104064-drg-10-PHHERA-F3.dwg
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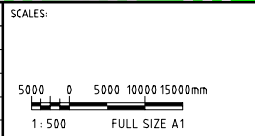
LEGEND

- COFFEY BOREHOLE LOCATION
- COFFEY GROUNDWATER WELL LOCATION
- ERM BOREHOLE LOCATION
- ERM GROUNDWATER MONITORING WELL LOCATION
- AECOM BOREHOLE LOCATION
- AECOM SUPPLEMENTARY VMP DGI BOREHOLE LOCATION
- AECOM SUPPLEMENTARY VMP DGI GROUNDWATER MONITORING WELL LOCATION
- AECOM GROUNDWATER MONITORING WELL LOCATION
- AECOM SOIL VAPOUR LOCATION
- AECOM INTERTIDAL WELL LOCATION
- AECOM STILLING WELL LOCATION

4 PROPOSED DEVELOPMENT BLOCK AREA

- VMP/PDA REMEDIATION WORKS AREA BOUNDARY
- OTHER REMEDIATION WORKS (NORTH) BOUNDARY
- PROPOSED DEVELOPMENT AREA BOUNDARIES
- PROPOSED SOUTHERN COVE BOUNDARY
- APPROXIMATE EXTENT OF FORMER GASWORKS FEATURES

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REVISIONS				
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APPROVED	AKL	DATE	28.03.2011

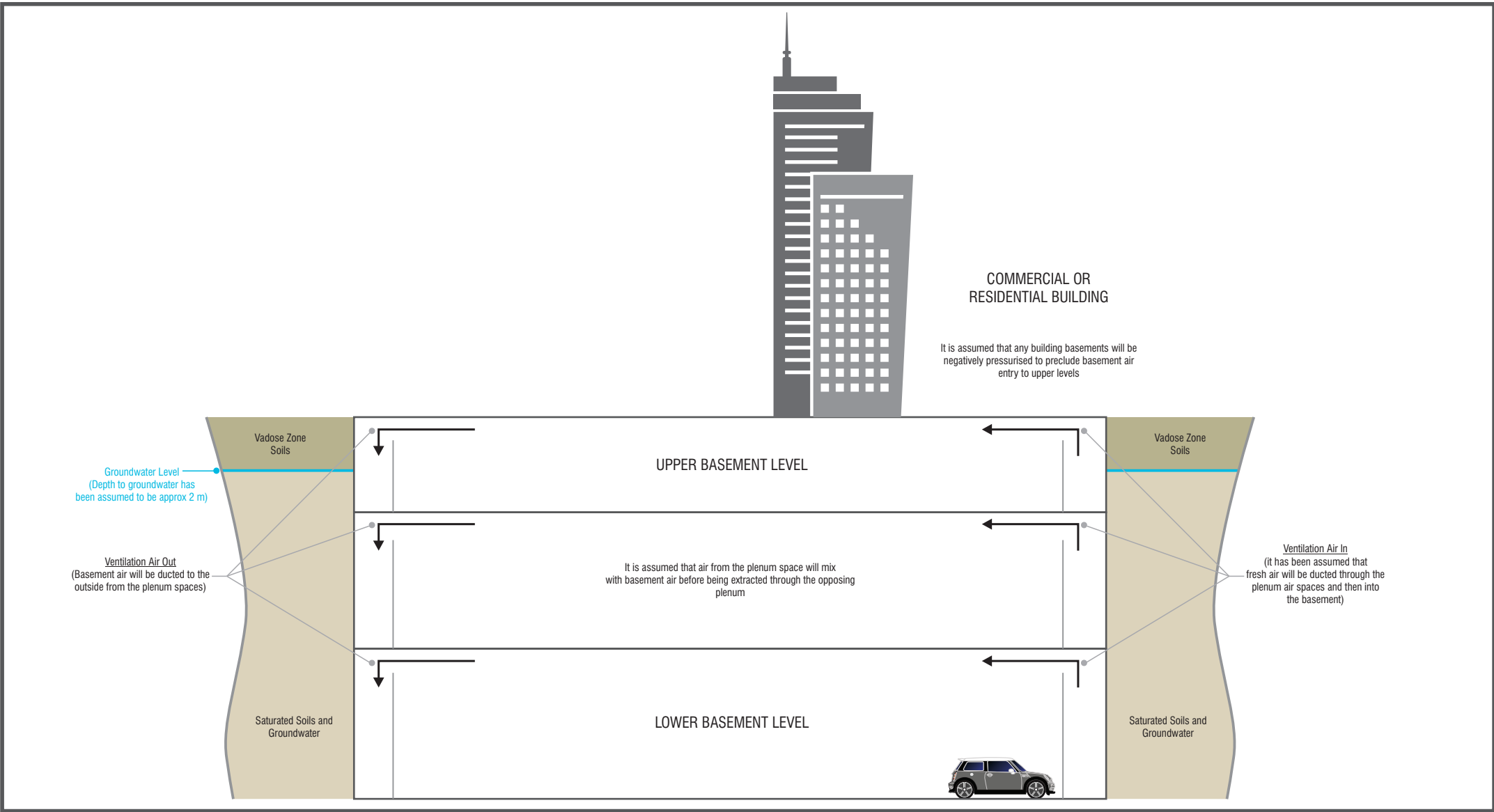
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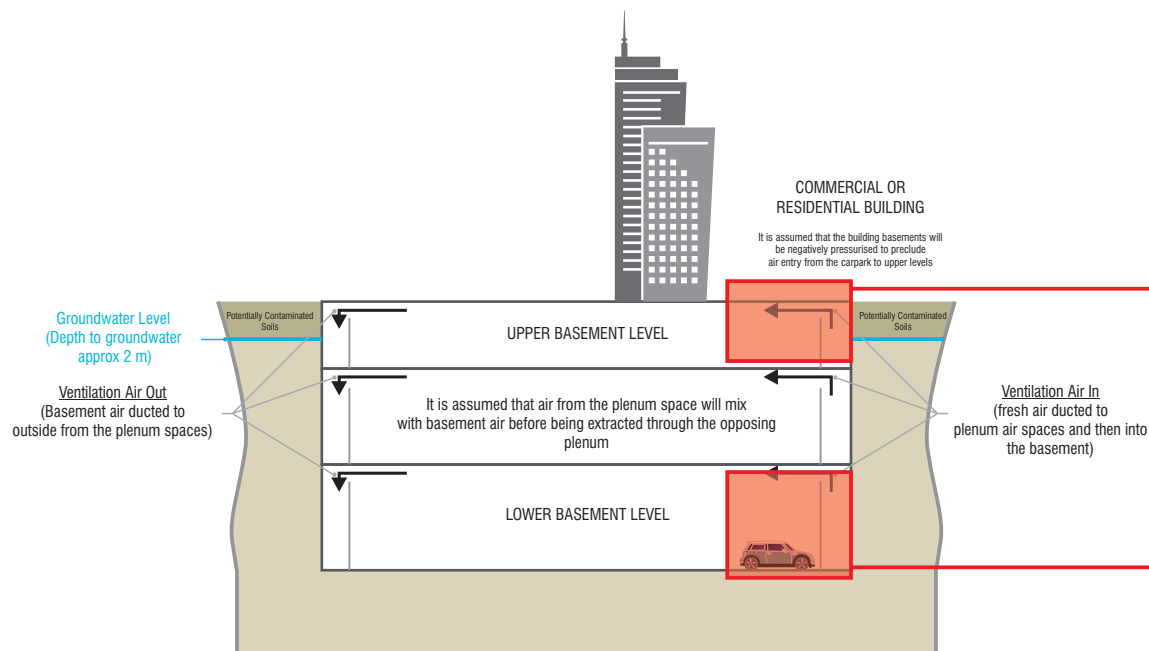
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HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT		
FIGURE F3 SITE PLAN AND SAMPLING LOCATIONS		
STATUS:	DRAWING NO:	REV:
FINAL	60104064-DRG-10-PHHERA-F3	01

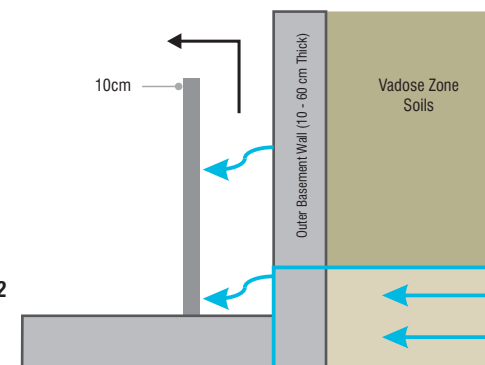
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PROJECT ID: S4150023 CREATED BY: TO LAST MODIFIED: TO 12 05 2011 AECOM www.aecom.com		Conceptual Site Model - Plenum Ventilation Configuration	
NOT TO SCALE		Lend Lease (Millers Point) Pty Ltd Human Health and Ecological Risk Assessment Barangaroo Hickson Road, Millers Point NSW	Figure F4



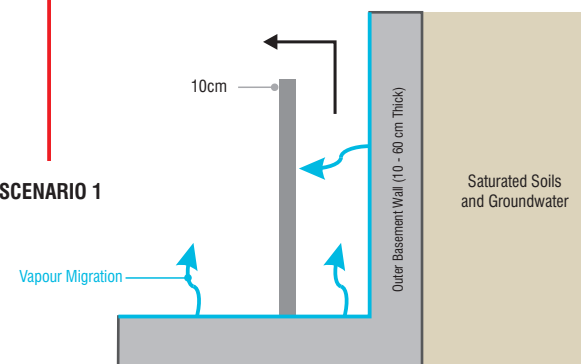
SCENARIO 2



Assumes groundwater seepage is present on the inner surface of 50% of two of the four walls. Modelling of groundwater seepage has been undertaken using the Water9 Model Equations (USEPA, 1994).

Assumes contaminated soils are present adjacent the upper 2m of the walls. Advection has been assumed to be the dominant process for vapour intrusion. Modelling of soil derived vapours has been undertaken using the Johnson and Ettinger Model (1991).

SCENARIO 1



Below Groundwater Level

A thin film of groundwater is assumed to be present on the inner surface of two of the four wall and 50% of the floor of the lower basement. Modelling of groundwater seepage was undertaken using Water9 Model Equations (USEPA, 1994).

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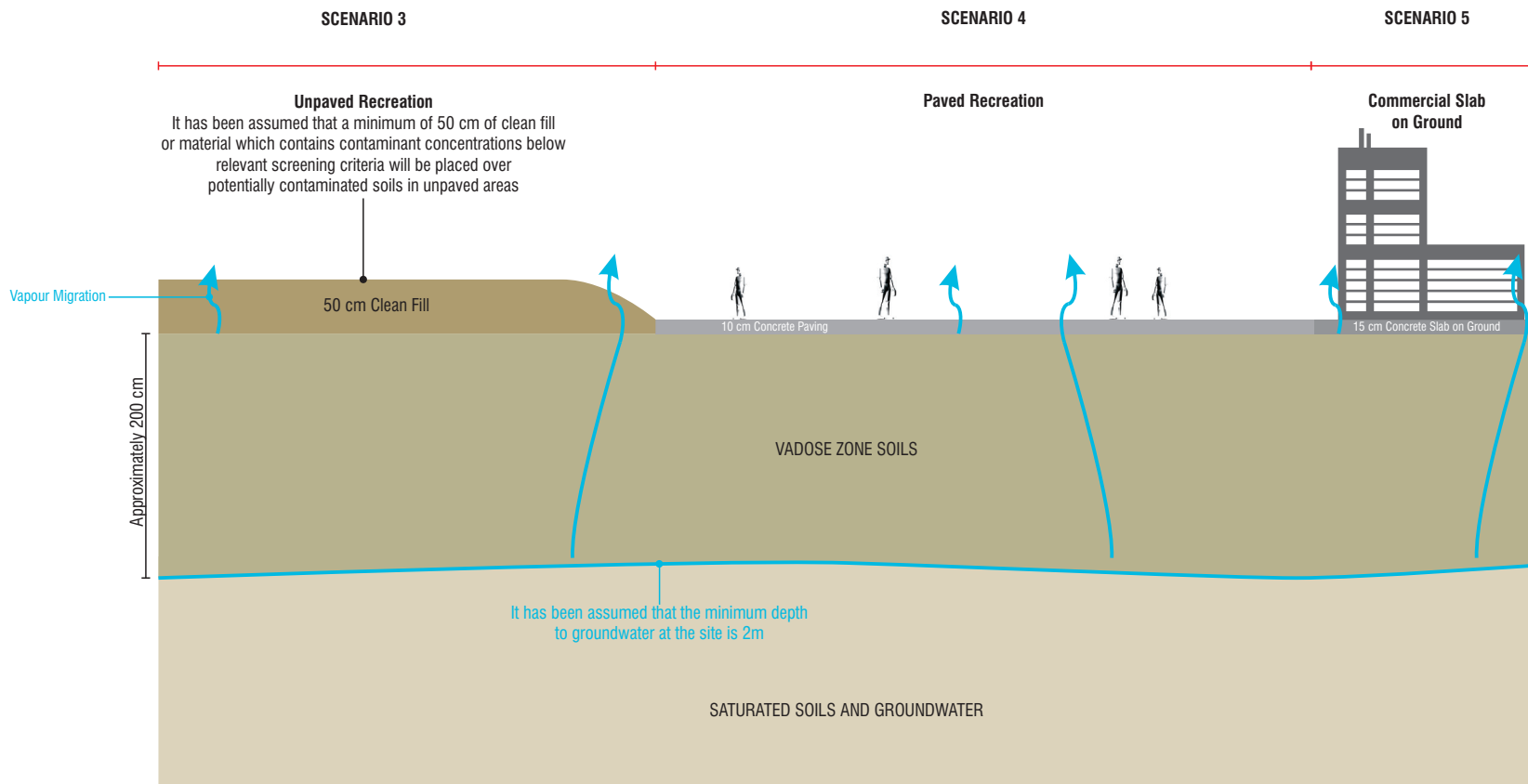


NOT TO SCALE

Conceptual Site Model - Scenario 1 (Lower Basement A), 2 (Upper Basement)

Lend Lease (Millers Point) Pty Ltd
Human Health and Ecological Risk Assessment
Barangaroo
Hickson Road, Millers Point NSW

Figure
F5



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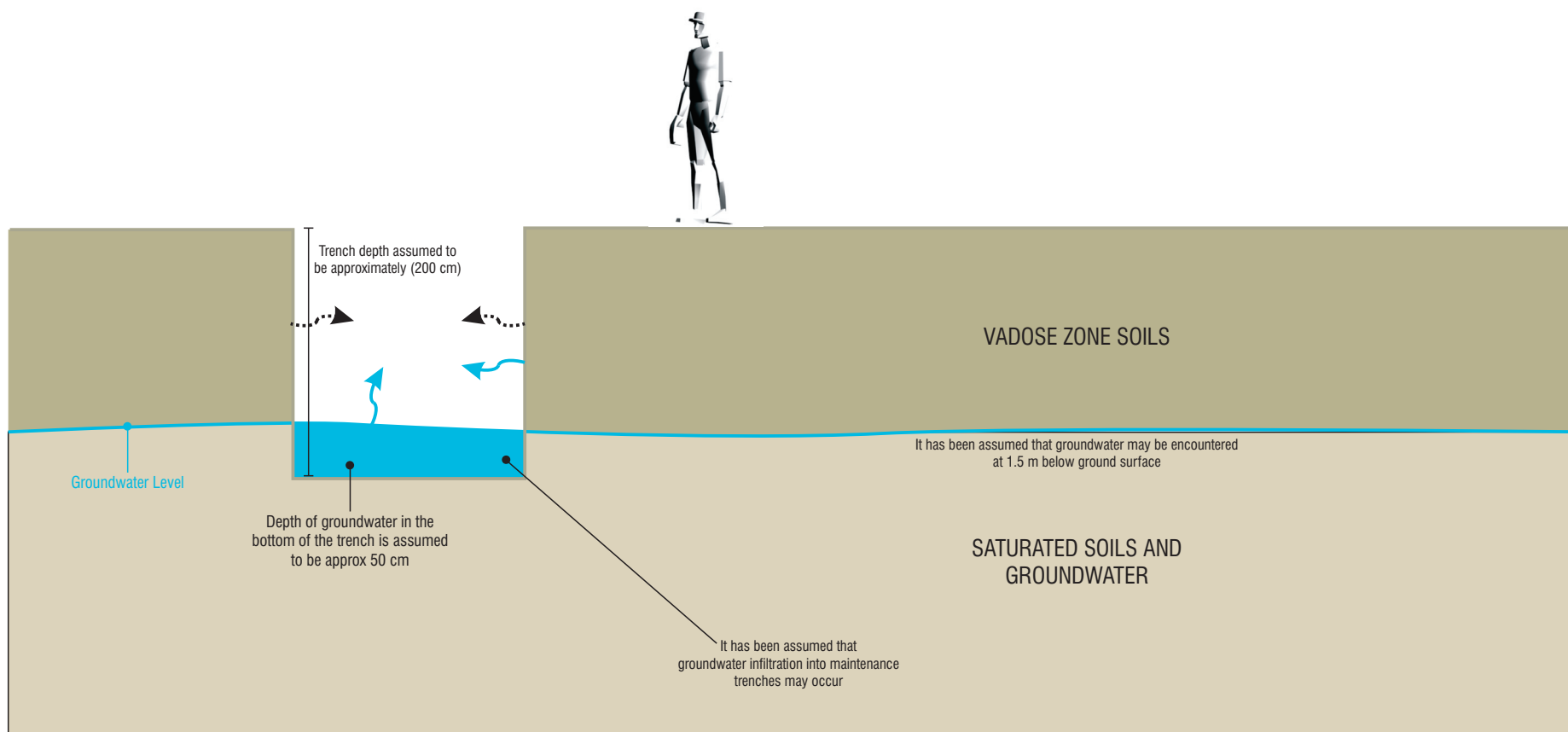
NOT TO SCALE

Conceptual Site Model - Scenario 3, (Unpaved Recreation) 4, (Paved Recreation) and 5 (Commercial Slab on Ground)

Lend Lease (Millers Point) Pty Ltd
 Human Health and Ecological Risk Assessment
 Barangaroo
 Hickson Road, Millers Point NSW

**Figure
F6**

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..... Dust generation during excavation
~~~~~ Vapour migration

NOT TO SCALE

### Conceptual Site Model - Scenario 6 (Intrusive Maintenance)

**Lend Lease (Millers Point) Pty Ltd**  
*Human Health and Ecological Risk Assessment*  
Barangaroo  
Hickson Road, Millers Point NSW

**Figure  
F7**