

## 12.1 Long-Term Site Management

Should a final management approach be adopted involving the on-site management of a proportion of the fill material, an Environmental Management Plan (EMP) will be required for the Site. This EMP would describe the nature and location of contamination remaining on-site, how this is to be managed and who will be responsible for ongoing management of the material. The EMP must be reasonably enforceable. The EMP would include details showing the location of the geotextile marker layer and precautions in the event of penetration of the marker layer. This EMP would be developed in parallel with the Validation Report.

## 13.0 References

Department of Mines (1966). *Newcastle 1:25000 Geological Series Sheet S1 56-2*.

Department of Urban Affairs and Planning (1998). *Managing Land Contamination Planning Guidelines SEPP 55-Remediation of Land*.

National Environment Protection Council (1999). *National Environmental Protection (Assessment of Site Contamination) Measure (NEPM)*.

NSW Environment Protection Authority (1997). *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites, Sydney*.

NSW Department of Environment and Conservation (DEC) 2006. *Guidelines for the NSW Site Auditor Scheme (2<sup>nd</sup> Edition)* April 2006.

NSW DECC (2008) *Waste Classification Guidelines Part1: Classifying Waste* April 2008.

NSW DECC (2008) *Excavated Natural Material Exemption*.

The NSW Occupational Health & Safety Act 2000.

The NSW Occupational Health & Safety Regulation 2001.

Code of Practice for the Management & Control of Asbestos in Workplaces [NOHSC: 2018(2005)].

Code of Practice for the Safe Removal of Asbestos, 2<sup>nd</sup> Edition [NOHSC: 2002(2005)].

Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres" 2<sup>nd</sup> Edition [NOHSC:3003 (2005)].

Protection of the Environment Operations (Waste) Regulation 1996.

Department for Environment, Food and Rural Affairs and The Environment Agency, *Potential Contaminants for the Assessment of Land*, UK, 2002.

HLA-Envirosciences, 1 November 2006; *Preliminary Environmental Site Assessment*, Proposed Newcastle Private Hospital Multi-Level Carpark, Lookout Road, Rankin Park NSW.

Douglas Partners, June 2007; *Geotechnical Investigation*, Proposed Carpark, Newcastle Private Hospital, New Lambton Heights.

ENSR, 27 February 2009; *Phase 1 Environmental Site Assessment*, Proposed Hospital Extensions, Newcastle Private Hospital, New Lambton Heights NSW.

NSW Department of Housing; *Managing Urban Stormwater - Soils and Construction*, 1998.

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## Figures

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May 2009

Remedial Action Plan

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**ENSR** | **AECOM**



- - - - - Lot boundary

**Figure 1 Site Location**  
**Healthscope c/o APP Corporation**  
*Remedial Action Plan*  
 14 Lookout Road, New Lambton Heights, NSW

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## **Appendix A**

### **Site Survey Plans**

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May 2009

Remedial Action Plan

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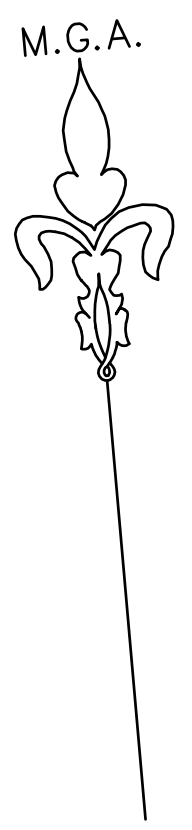
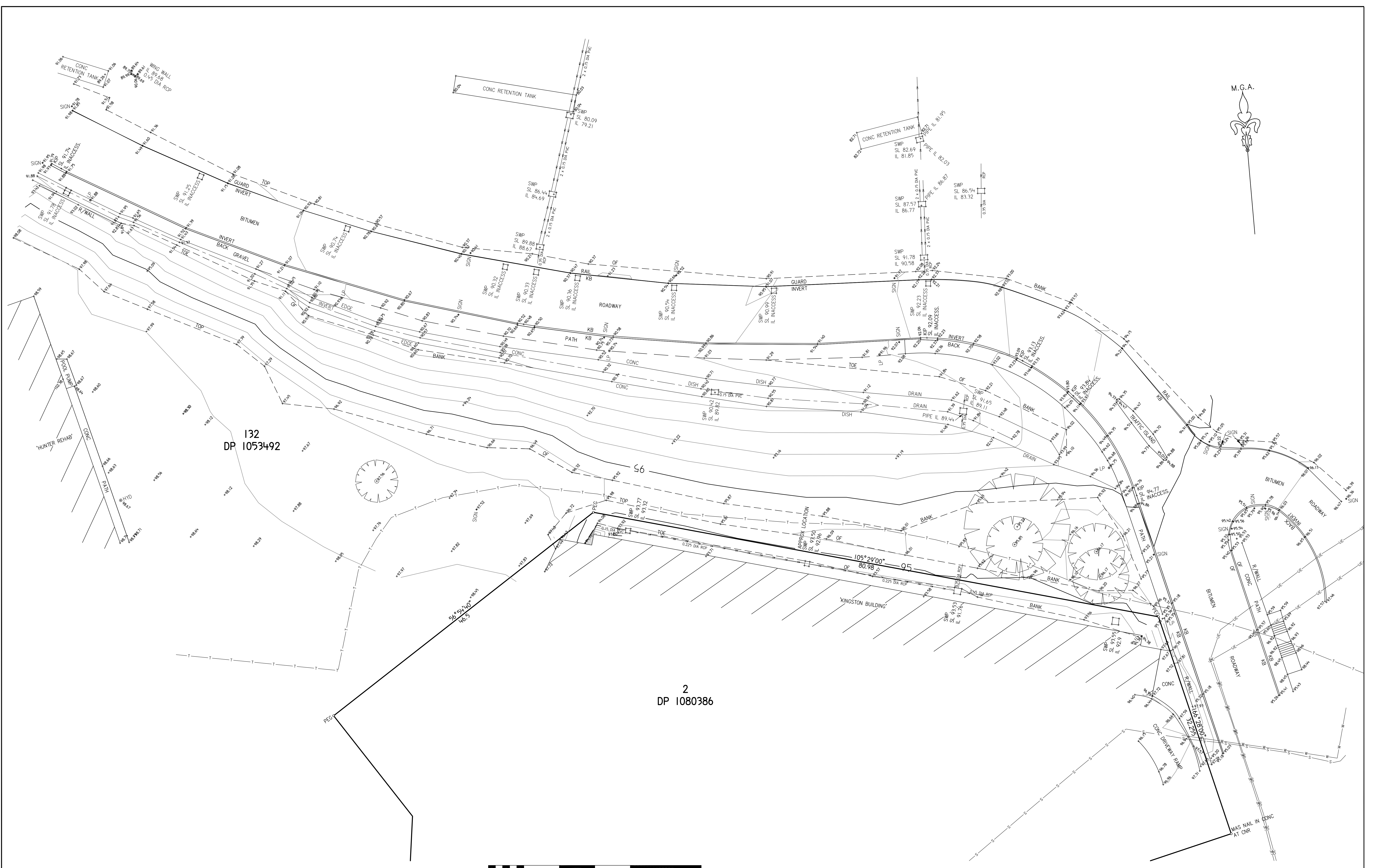


LOT	DP	OWNER
131	1053492	The Hunter Area Health Service
132	1053492	Hunter New England Area Health Service
2	1080386	NIB Health Funds Limited
1	SP 74793	Denise Nesbitt Pty Limited
2	SP 74793	Denise Nesbitt Pty Limited
3	SP 74793	HCI Property Pty Limited
4	SP 74793	Dr Barry Reed Pty Limited
5	SP 74793	Dragthorpe Pty Limited
6	SP 74793	Louise Helen Porter
7	SP 74793	Newcastle Oral Surgery Centre Pty Limited
8	SP 74793	GK Lowe Pty Limited
9	SP 74793	Robert Leonard Eisenberg & Debbie Joy Reid
10	SP 74793	Elizabeth Jane Logan
11	SP 74793	Vicky Marie Doyle
12	SP 74793	Gauri Deshpande
13	SP 74793	Robert Leonard Eisenberg & Debbie Joy Reid
14	SP 74793	Robert Leonard Eisenberg & Debbie Joy Reid
15	SP 74793	Jennifer Margaret Anderson
16	SP 74793	Stephen Patrick O'Callaghan & Judith Heather O'Callaghan
17	SP 74793	Alanbrooke Holdings Pty Limited & ANJ Super Pty Ltd
18	SP 74793	Miljkovic-Petkovic Investments Pty Limited
19	SP 74793	Cardigan Bay Pty Limited
20	SP 74793	Cardigan Bay Pty Limited
21	SP 74793	Tawco Pty Limited
22	SP 74793	Kathryn Anne Ferencz
23	SP 74793	Newcastle Oral Surgery Centre Pty Limited
24	SP 74793	Paul Christopher Myers & Susan Elizabeth Myers
1	SP 60845	SPW Raymond Pty Limited
2	SP 60845	Anlis Pty Limited
3	SP 60845	Andrew Keith Hedges & Elizabeth Stuart Hedges
4	SP 60845	Foths Pty Limited
5	SP 60845	NIB Health Funds Limited
6	SP 60845	Paul Jerome Walker & Krysia Teresa Walker
7	SP 60845	NIB Health Funds Limited
8	SP 60845	V L Reid & J W Leitch Pty Limited
9	SP 60845	Paul Raymond Trevillian & Zdenka Ivanica Trevillian
10	SP 60845	NIB Health Funds Limited

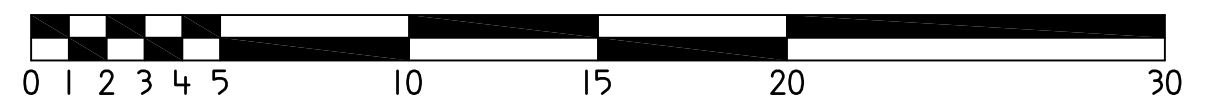


NOTE:  
-Boundaries have been extracted from LPI DCDB and have not been surveyed.  
-An investigation into the possible existence of any easements, right of ways or restrictions affecting the subject land has not been undertaken.

Ver.	Date	Comment
A	10/09/2008	Initial Layout



DO NOT SCALE DIMENSIONS IN METRES



REVISIONS

A	ORIGINAL ISSUE - 29/7/2008
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**NOTES:**  
 10. SWP DENOTES STORMWATER PIT.  
 11. KIP DENOTES KERB INLET PIT.  
 12. LP DENOTES LIGHT POLE.

**NOTES:**  
 1. FEATURES SHOWN TO SCALE ACCURACY.  
 2. CONTOUR INTERVAL 1 m.  
 3. SERVICES LOCATED ONLY WHERE VISIBLE.  
 4. — SW — DENOTES STORMWATER PIPE.  
 5. — S — DENOTES SEWER MAIN.  
 6. — W — DENOTES WATER MAIN.  
 7. — UE — DENOTES UNDERGROUND ELECTRICITY.  
 8. — T — DENOTES TELSTRA CABLE-MULTIPLE CABLES MAY BE PRESENT - REFER TO UTILITY AUTHORITY.  
 9. ○ DENOTES TREE - TREE SPREADS ARE DIAGRAMMATIC ONLY. SHOULD THIS BE CRITICAL TO DESIGN, THEN THE DRIP LINE SHOULD BE ESTABLISHED BY ADDITIONAL SURVEY.

LGA OF NEWCASTLE PARISH OF NEWCASTLE  
 COUNTY OF NORTHHUMBERLAND  
 PLAN SHOWING DETAIL, SPOT LEVELS AND CONTOURS  
 OVER PT LOT 2 DP 1080386 & PT LOT 132 DP 1053492  
 NEW LAMBTON HEIGHTS

FOR: HEALTHSCOPE NEWCASTLE  
 BROWNFIELD CAPEX  
 c/- APP CORPORATION PTY LTD  
 PO BOX 1285  
 NEWCASTLE NSW 2300  
 ATTN: MR PETER ALLEN  
 RE: NEWCASTLE PRIVATE HOSPITAL  
 EXTENSION

CAUTIONS AND NOTES ARE AN INTEGRAL PART OF THIS PLAN.  
**CAUTIONS:**  
 1. PLAN NOTES SHOULD NOT BE ALTERED OR DELETED.  
 2. HARD COPY SHOULD ONLY BE PRODUCED OR REPRODUCED AT THE SCALES STATED IN THE TITLE BLOCK.  
 3. SUBJECT TO CAUTION 6, THIS PLAN IS SUITABLE FOR PLANNING AND DESIGN AT THE SCALES STATED.  
 4. THE LOCATION AND DEPTH OF ALL UNDERGROUND SERVICES, WHETHER SHOWN ON THE PLAN OR NOT, SHOULD BE PRECISELY DETERMINED BEFORE CONSTRUCTION WORK COMMENCES AND APPROPRIATE MEASURES TAKEN TO PROTECT THESE SERVICES FROM DAMAGE.  
 5. ANY DIGITAL COPY OF THIS PLAN IS SUBJECT TO 'CONDITIONS OF SUPPLY OF DIGITAL DATA'. SEE 'README1.DOC' FILE SUPPLIED WITH THE DIGITAL DATA FOR THESE CONDITIONS.  
 6. THE TITLE BOUNDARIES HAVE NOT BEEN FULLY INVESTIGATED AND ARE SHOWN ON THE PLAN AS THEY ARE IN THE TITLE DIAGRAM. IF THE DIMENSIONS ARE CRITICAL FOR DESIGN OR SETTING OUT OF NEW STRUCTURES OR IN FINANCIAL DECISIONS THEN WE RECOMMEND A REDEFINITION SURVEY BE CARRIED OUT AND A PLAN OF REDEFINITION BE PREPARED.

EXCAVATOR/CONTRACTOR/BUILDER  
**MUST CONTACT DIAL BEFORE YOU DIG**  
 BEFORE COMMENCING WORK ON SITE.  
 DIAL 1100 BEFORE YOU DIG

PREPARED UNDER A QUALITY SYSTEM CERTIFIED AS COMPLYING WITH ISO 9001 BY AN ACCREDITED CERTIFICATION BODY

**C R HUTCHISON & CO** PTY LTD  
 CONSULTING SURVEYORS  
 19 Grainger St (PO Box 87) LAMBTON NSW 2299 - DX 7881 NEWCASTLE NSW  
 TELEPHONE: (02) 49 5230 11 FAX: (02) 49 527656 EMAIL: surveyors@hutchisonandco.com.au  
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DATUM FOR LEVELS: AHD ORIGIN OF LEVELS: SS 139998 - RL 95.695

SCALE: 1:200 SURVEY COMPLETED: 15/7/2008

SHEET 1 OF 1 SHEETS  
 CAD DRAWING 16064\_2A\_1.DWG  
 DRAWING No.: 16064/2 B1