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Geotechnics • Environment • Groundwater

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**REPORT
ON
STAGE 1 CONTAMINATION ASSESSMENT**

**CONCEPT PLAN APPLICATION
CALDERWOOD URBAN DEVELOPMENT PROJECT**

Prepared for
DELFIN LEND LEASE LTD

**PROJECT 48742.04
MARCH 2010**



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Executive Summary

A stage 1 contamination assessment has been undertaken for the Calderwood Urban Development Project, a 720 ha site near Albion Park, NSW. The assessment was taken out in accordance with SEPP 55 remediation of land which allows for a staged approach to contamination assessments. The investigation comprised a detailed site history investigation incorporating review of aerial photography, title deeds, interviews with site owners as well as correspondence with various departments and agencies. The investigation was undertaken to address the Director General Requirements listed under the heading Stage 1 Project Application: Contamination Assessment.

During the assessment potential areas of environmental concern (PAEC) were noted as part of the site history investigation, these PAEC were logged, for later more thorough investigation. Based on site walkovers or interviews with the site owners, each of the PAEC were classified as areas of environmental concern (AEC) or non AEC. AEC will require further investigation incorporating a Stage 2 contamination assessment. Non AEC areas require no further investigation.

During the course of the investigation 91 PAEC were identified. Of these 59 were identified as AEC areas that will require some further investigation for contamination potential. Due to the multiple ownership of the site and the existence of numerous homesteads across the 720 ha property, the majority of the AEC are related to buildings or farm related structures, that will require Hazardous Building material surveys due to the age and time of construction.

Overall contamination is not considered to be a significant constraint to development, though further investigations in AEC areas will be required to delineate the extent of any contamination found.

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**REPORT ON STAGE 1 CONTAMINATION ASSESSMENT
CONCEPT PLAN APPLICATION
CALDERWOOD URBAN DEVELOPMENT PROJECT**

1. INTRODUCTION

1.1 General

This report presents the results of a Stage 1 Contamination Assessment undertaken on a 720 ha parcel of land at Calderwood (henceforth “the site”, refer Drawing 1). The work was commissioned by Cardno Forbes Rigby Pty Ltd (Cardno) on behalf of Delfin Lend Lease Limited (DLL) the potential developer of the site.

The investigation comprised a review of available site information, including a review of previous investigation reports, a groundwater bore search, a review of historical title deeds, council records and historical aerial photographs, a search of regulatory notices, interviews with site owners and workers, site inspections and identification of areas of environmental concern. This assessment has been broadly undertaken in accordance with the State Environmental Planning Policy No. 55 on the remediation of land (SEPP55). SEPP55 allows for staged assessments of contamination at a site, this assessment is a Stage 1 assessment of the site.

This report has been prepared to address the Director General’s Requirements as specified in the DG’s letter dated 10 June 2009 for contamination assessment under the heading Stage 1 Project Application.

1.2 Background

This investigation has been prepared to accompany a Concept Plan Application under Part 3A of the Environmental Planning & Assessment Act, 1979 (EP&A Act) in relation to the Calderwood Urban Development Project. A Concept Plan Application under Part 3A of the Environmental Planning & Assessment Act 1979 and a State significant site listing proposal under Schedule 3 of the State Environmental Planning Policy Major Development 2005 have been submitted to the Department of Planning.

The Calderwood Urban Development Project proposes a mix of residential, employment, retail, education, conservation and open space uses. The development proposes 4,800 dwellings and approximately 50 hectares of retail, education, community and mixed use/employment land. The overall development will accommodate about 12,400 people and will deliver \$3 billion in development expenditure and create 7,600 full time equivalent jobs by 2026.

The Calderwood Urban Development Project site is located within the Calderwood Valley in the Illawarra Region. It is approximately 700 hectares in area with approximately 600 hectares of land in the Shellharbour LGA and the balance located within the Wollongong LGA.

The Calderwood Valley has long been recognised as a location for future urban development, firstly in the Illawarra Urban and Metropolitan Development Programmes and more recently in the Illawarra Regional Strategy (IRS).

The IRS nominates Calderwood as an alternate release area if demand for additional housing supply arises because of growth beyond projections of the Strategy, or if regional lot supply is lower than expected.

In 2008, the former Growth Centres Commission (GCC) reviewed the proposed West Dapto Release Area (WDRA) draft planning documents. The GCC concluded that forecast housing land supply in the IRS cannot be delivered as expected due to implementation difficulties with the WDRA, and the significantly lower than anticipated supply of housing land to market in the Illawarra Region is now been recognised as a reality.

The GCC Review of the WDRA also recognised that there is merit in the early release of Calderwood in terms of creating a higher dwelling production rate and meeting State government policy to release as much land to the market as quickly as possible. Given the demonstrated shortfall in land supply in the Illawarra Region and the WDRA implementation difficulties highlighted in the GCC Report, the release of Calderwood for urban development now conforms to its strategic role under the IRS as a source of supply triggered by on-going delays in regional lot supply. The Calderwood Urban Development Project can deliver about 12% of the IRS' new dwelling target.

Changes in outlook arising from global, national and regional factors influencing investment and delivery certainty, housing supply and affordability and employment and economic development also add to the case for immediate commencement of the Calderwood Project.

In April 2008 the Minister for Planning issued terms of reference for the preparation of a Justification Report to address the implications of initiating the rezoning of Calderwood for urban development including associated staging, timing and infrastructure considerations.

In February 2009 the Minister for Planning considered a Preliminary Assessment Report for the Calderwood Urban Development Project that provided justification for the planning, assessment and delivery of the project to occur under Part 3A of the EP&A Act, having regard to the demonstrated contribution that the project will have to achieving State and regional planning objectives.

Subsequently, on the 16 April 2009, pursuant to Clause 6 of SEPP Major Development, the Minister for Planning formed the opinion that the Calderwood Urban Development Project constitutes a Major Project to be assessed and determined under Part 3A of the EP&A Act, and also authorised the submission of a Concept Plan for the site. In doing so, the Minister also formed the opinion that a State significant site (SSS) study be undertaken to determine whether to list the site as a State Significant site in Schedule 3 of SEPP Major Development.

The Part 3A process under the EP&A Act allows for the Calderwood Urban Development Project to be planned, assessed and delivered in an holistic manner, with a uniform set of planning provisions and determination by a single consent authority. Given the scale of the proposal, the Concept Plan and SSS listing provide the opportunity to identify and resolve key issues such as land use and urban form, development staging, infrastructure delivery and environmental management in an integrated and timely manner.

This report has been prepared to fulfil the Environmental Assessment Requirements issued by the Director General for the inclusion of the Calderwood site as a State Significant Site under SEPP Major Development, and for a Concept Plan approval for the development. Specifically, this investigation has been prepared to satisfy the requirements of the Director General's Requirements for Contamination assessment listed in DG's letter dated 10 June 2009 under the heading 'Stage 1 Application'.

In accordance with the Director General's Requirements this report has been prepared following consultation with the following agencies:

- Shellharbour City Council;
- Wollongong City Council;
- Department of Environment, Climate Change and Water.

2. SITE IDENTIFICATION AND SURROUNDING LAND USES

The Calderwood Valley is bounded to the north by Marshall Mount Creek (which forms the boundary between the Shellharbour and Wollongong LGAs), to the east by the Macquarie Rivulet, to the south by Johnson's Spur and to the west by the Illawarra Escarpment. Beyond Johnson's Spur to the south is the adjoining Macquarie Rivulet Valley within the suburb of North Macquarie. The Calderwood Urban Development Project land extends south from the Calderwood Valley to the Illawarra Highway.

The site is bound by the Illawarra Highway to the south and Marshall Mount Road in the north. North Macquarie Road bisects the site in a northeast – southwest direction. The site itself comprises an irregular shaped area of 718.4 ha with maximum north-south and east-west dimensions of 3.70 km and 3.22 km respectively. Each of the properties within the site has been given a corresponding "identification letter" for reference purposes, refer Drawing 2.

Macquarie Rivulet and Marshall Mount Creek run west to east across the southern and northern portions of the site respectively. Overhead high voltage electricity lines also cross the site in the northern part of the site.

Topography across the site is varied, with essentially flat flood plains bordering the creeks, ranging to extremely steep ground on the flanks of Johnstons Spur and other areas of the site are gently undulating. Topographic relief is from 165 m at the top of Johnstons Spur to less than 10 m in the Marshall Mount Creek drainage.

The site currently comprises 21 distinct land packages in the local government areas of Wollongong and Shellharbour. The land is principally used as farm land, incorporating dairy farming, horse agistment and horse breeding. The site has been largely cleared, though pockets of remnant vegetation remain, especially on the elevated portions of the site. The surrounding land consists of residential dwellings, small scale commercial and agricultural areas.

3. PROPOSED DEVELOPMENT

The Calderwood Urban Development Project proposes a mix of residential, employment, retail, education, conservation and open space uses. The development proposes 4,800 dwellings and Approximately 50 hectares of retail, education, community and mixed use/employment land. The overall development will accommodate about 12,400 people and will deliver \$3 billion in development expenditure and create 7,600 full time equivalent jobs by 2026.

4. REGIONAL GEOLOGY

The Kiama 1:50 000 Geological Series Sheets indicate that the study area is underlain by a gently dipping (about 5° to the north – northwest), highly varied section of the stratigraphic sequence of the Permo – Triassic Sydney Basin. This sequence is locally to extensively overlain by alluvium, and locally by talus (slopewash and rockfall debris) of recent (Quaternary) age.

The distribution of the principal units of the bedrock stratigraphic is shown in Drawing 3. Typical lithologies of these units are summarised below in oldest to youngest order:

- **Berry Siltstone** – comprising mid grey to dark grey siltstone and fine-grained sandstone. This formation is found at the foot of hill slopes in the subject area, adjoining the Budgong Sandstone up-slope and the alluvial deposits down-slope.
- **Budgong Sandstone** – comprising red brown to grey volcanic sandstone. This formation underlies foot to upper valley slopes in most of the study area.
- **Bumbo Latite Member** – a grey to blue grey aphanitic to porphyritic latite. This member within the Budgong Sandstone appears on the lower midslope of Johnstons Spur.
- **Cambewarra Latite Member** – similar to the Bumbo Latite Member, this unit is present at higher elevations, specifically at the highest point of Johnston's Spur.

5. SCOPE OF WORKS

In order to evaluate the potential for land contamination and the environmental constraints in the release area, a Stage 1 (Preliminary) Contamination Assessment was conducted. This primarily included a general appraisal of the potential for site contamination that may have resulted from past and present land uses of the area.

Based on the information relating to the proposed development, the preliminary assessment included the following scope of works:

- A search of surrounding registered groundwater bore information;
- A review of previous site ownership records, including land title records archived at the Land Titles Office. These records were compiled by Service First Registrations Pty Ltd;
- A review of historical aerial photography for the area through the Land Information Section of the Department of Lands;

- A search through the NSW DECCW Land Information records to confirm whether there are statutory notices current on any parts of the release area under the *Contaminated Land Management Act* (1997);
- A review of Parts 2 and 5 of the Section 149 certificates for each property for issues pertaining to possible contamination;
- Interviews with site owners to obtain anecdotal information regarding farm practices and the potential nature and extent of site filling (if any);
- Formulation of a list of Potential Areas of Environmental Concern (PAEC) based on the findings of the reviews;
- Inspection of the site or an interview with the site owner with particular focus on the identified PAECs by an Environmental Engineer for discernible signs of contamination or contaminating activities;
- Determination of actual Areas of Environmental Concern (AEC) based on the findings of the site inspection;
- Preparation of an interpretive report identifying AECs and providing recommendations regarding the need for further field-based environmental investigations.

6. SITE HISTORY INVESTIGATION

A site history investigation was undertaken for the site. Based on the investigation findings, issues pertinent to contamination were logged and the areas associated with these issues were identified as Potential Areas of Environmental Concern (PAEC). PAEC Identification & Inspection Logs described the site observations made at each of these areas and their potential for contamination. Based on the evaluation results, each area was further classified as an Area of Environmental Concern (AEC), where required.

The following sections detail the methodology of investigations undertaken, with results of the investigations discussed in Section 9. PAEC Identification & Inspection Logs are provided in Appendix B. The logs contain detailed information and observations relating to each identified area and provide the rationale for determining a site's AEC status. This report must be read in conjunction with the PAEC logs.

6.1 Department of Environment, Climate Change and Water Groundwater Search

A registered groundwater bore search was conducted by the Office of Water on 23 November 2009. Five registered bores were located within the Calderwood Precinct boundaries. There are no records regarding the construction or intended usage of these bores. The licence numbers were (GW108663, GW38648, GW51493, GW33073, and GW22780).

As many as forty bores were found to lie within a 2 km radius of the site. The majority of these bores are located upstream of the subject site, in the Calderwood Valley. A number of bores are also located in the Albion Park township and in the rural lands to the south of the site. Only two bores are registered on the downstream flowpath of the site.

All of these bores are assumed to be in use for wither agricultural (stockwatering, irrigation etc) or human consumption. As such, consideration must be given to impacts on downstream users of the water resource. No specific PAEC were logged as part of this investigation.

6.2 Historical Title Search

A search of land title ownership information held by Land Titles Office in Sydney was compiled by Service First Registrations Ltd for the 20 lots making up the subject site and covered records dating back to circa 1895. Detailed copies of titles and survey plans were analysed. A summary of the search is provided in Appendix C.

In general the lots were found to be held by individuals whose listed occupation was farmer, grazier or dairy farmer. In a number of instances, companies were found to own the lots, however in general these were considered to be family trusts or small family companies involved specifically with rural land uses.

No PAECs were identified based on the inferred land use of the site.

6.3 Historical Aerial Photography

Historical aerial photographs from five periods of photography, archived by the Land Information Section of the Department of Land, were inspected. The photographs indicated that the site has undergone few changes since the earliest available aerial photograph dated January 1949. Aerial photographs examined included:

- June 1949 (Run 3);
- August 1963 (Run 1k and Run 2k);
- 29 December 1974 (Run 4);
- 12 May 1984 (Run 1 and Run 2); and
- 29 January 1994 (Run 2).

In addition to these, two further photos were examined:

- 2001 Aerial Photography flown on behalf of Shellharbour Council;
- October 2009 Aerial Photography flown on behalf of DLL.

All photographs were scanned at high resolution and geocoded for use in a GIS database. The photographs were examined for signs of environmental concern, such as structures which may have been demolished, signs of stripped soil or areas of fill. All unexplained surface features were logged as PAEC. The observations made from the aerial photographs examined have been included in Appendix A (Drawings 4 – 8). The PAEC logged as a result of this investigation are attached in the PAEC investigation sheets attached as Appendix B.

6.4 WorkCover Authority NSW

A search was conducted through the WorkCover Authority of New South Wales of the Stored Chemical Information Database. This database contains licences for the storage of chemicals on site. Licences are typically issued for petroleum storage tanks, chemical stores etc. WorkCover replied by letter dated 15 December 2009, that no records were held pertaining to the lots involved in the development. Based on this information, no PAECs were logged for this part of the investigation.

6.5 Geotechnical Test Pitting

As part of the geotechnical assessment at the site, 89 test pits were excavated to depths of up to 3 m. The logs from these investigations were reviewed as part of the contamination assessment and all instances of filling were logged. As a result, one location on Property E was logged as a PAEC based on the presence of coalwash filling to a depth of 0.3 m.

6.6 Regulatory Notices Search

A search was conducted through the NSW EPA web site for any Regulatory Notices that may be current on the site under the *Contaminated Land Management Act* (1997) on 23 November 2009. No Notices or Orders to investigate or remediate have been issued for any part of the site under the *Contaminated Land Management Act* (1997).

6.7 Parts 2 and 5 of the Section 149 Certificate

A review of the Parts 2 and 5 of the Section 149 certificates from Wollongong and Shellharbour Councils were reviewed for each parcel of land within the release area, excluding Lot 10 DP 1020864. No potential contamination issues were identified in the certificates and as such, no PAEC were logged.

6.8 Council Records

A request for a review of the property records pertaining to contamination for the lots in the subject site was made to Wollongong and Shellharbour Councils under a freedom of information request. Wollongong Council returned no information from this search. Shellharbour Council returned a number of documents regarding the proposed use of Property N as a Turf Farm on the property. This information was logged as a PAEC.

7. SITE INSPECTION

Site inspections were conducted on 15, 21 and 28 January 2010 as well as on 16 and 17 February 2010. The inspections were undertaken with the intention of visiting logged areas of PAEC or interviewing the owners of the property regarding the PAEC. The majority of land holdings were visited, photos were taken and site inspection logs recorded. Details are provided in the PAEC Identification Logs in Appendix B.

Comments from the interviewees have been incorporated into pertinent PAEC logs and copies of the Interview Sheets are attached in Appendix D.

8. POTENTIAL FOR CONTAMINATION

8.1 Potential Areas of Environmental Concern (PAEC)

Ninety-one areas were identified in the course of site history investigations as Potential Areas of Environmental Concern (PAEC). Each PAEC was logged on a PAEC Identification & Inspection Log. These logs are included for reference in Appendix B. A drawing indicating PAEC locations is provided as Drawing 9 in Appendix A. The logs contain detailed information regarding the investigations and analysis undertaken for the assessment. Table 1 below lists the identified PAEC, along with the evaluation results, as shown in the “outcome” column (entitled “AEC”). As shown in Table 1, not all nominated PAEC became AEC. The basis of the evaluation are provided in the PAEC log in Appendix B.

Table 1 – Identified Potential Areas of Environmental Concern

PAEC	Details	Prop ID	Identified From	Inspect'n Method	AEC
1	Building - Presently used as the Dairy and associated buildings	A	Walkover and Interview	Aerials	Yes
2	Building - Large, many outbuildings. Marshall Mount House	A	Interview	Aerials	Yes
3	Building - Small shed	A	Interview	Aerials	No
4	Building - Small shed	A	Interview	Aerials	No
5	Eroded Gully - Filled in prior to 1963	A	Interview	Aerials	Yes
6	Large Building many Out Buildings.	B	Interview	Aerials	Yes
7	Eroded Gully, Filled in prior to 1963	B	Interview	Aerials	Yes
8	Eroded Gully, Filled in prior to 1974	B	Interview	Aerials	Yes
9	New Earth Dam wall	B	Interview	Aerials	No
10	Building - Disused shed	C	Interview	Aerials	Yes
11	Bridge over creek - possibly constructed as part of the electricity easement.	C	Interview	Aerials	No
12	New earth dam wall	C	Interview	Aerials	No
13	Building - 3 bldgs continuously added to the current residence	C	Interview	Aerials	Yes
14	Building - Dairy building	C	Interview	Aerials	Yes
15	Stockpile	C	Interview	Aerials	No
16	Possible farm dump site	C	Interview	Aerials	Yes
17	Demolished Building - Large farm shed demolished prior to 1984	C	Interview	Aerials	Yes
18	Building - one large, with a number of small outbuildings	D	Interview	Aerials	Yes
19	Dump site/ Storage Area	C	Interview	Aerials	No
20	Building - Residential building	B	Interview	Aerials	Yes
21	Building - Disused shed	C	Aerials	Aerials	Yes
22	Building - Demolished prior to 1984	B	Interview	Aerials	No
23	Building - Current Residence	B	Interview	Aerials	Yes
24	Farm Dump - Scrap material in trees	A	Walkover and Interview	Aerials	No
25	Building - Current Residence	R	View from boundary	Aerials	Yes
26	Building - Numerous outbuildings, possibly stables	E	Walkover and Interview	Aerials	Yes
27	New Earth Dam wall	E	Walkover and Interview	Aerials	No
28	Building - Possible construction start of 1974	E	Walkover and Interview	Aerials	Yes
29	Demolished Building - Built 1983, demo prior to 1993	E	Walkover and Interview	Aerials	Yes
30	Building - Current Shed	G	Walkover and Interview	Aerials	Yes
31	Building - Current Shed	E	Walkover and Interview	Aerials	Yes
32	Building - Current Residence	F		Aerials	Yes
33	Building - Current Residence	S	View from boundary	Aerials	Yes
34	Building - Current Shed	F		Aerials	Yes
35	New Earth Dam wall	F		Aerials	Yes
36	Building - Current Residence	G	Walkover	Aerials	Yes
37	Possible Building. Unclear on Aerial photo - Not visible by 1963.	T	Walkover	Aerials	No
38	Stockpiled material	H	Interview	Aerials	No
39	Building - Dairy building	I	Interview	Aerials	Yes
40	Building - Current Residence, many out buildings	I	Interview	Aerials	Yes
41	Demolished Building - Built 1949 demo pre 2001	I	Interview	Aerials	No
42	3 Buildings - Built 1949 Northern most demolished pre 2001	H	Walkover and Interview	Aerials	Yes
43	New Earth Dam wall	H	Walkover and Interview	Aerials	No
44	Building - Current Residence	H	Walkover	Aerials	Yes
45	Building - Current Residence	I	Interview	Aerials	Yes
46	Farm Dump - Scrap material in trees	H	Interview	Aerials	No

PAEC	Details	Prop ID	Identified From	Inspect'n Method	AEC
47	Farm Dam Wall - Significantly expanded since 1949	G	Interview	Aerials	No
48	Building - Partially demolished in 1993 (fire?)	H	Interview	Aerials	Yes
49	Building - Current Residence	M	Walkover	Aerials	Yes
50	Gully/creek lined filled prior to 1963	Q	Interview	Aerials	No
51	Gully/creek lined filled prior to 1963	Q	Interview	Aerials	No
52	Gully/creek lined filled prior to 1963	Q	Interview	Aerials	No
53	Building - Current shed/stables	N	Walkover and Interview	Aerials	Yes
54	Building - Current Residence	N	Walkover and Interview	Aerials	Yes
55	Gully - Filled prior to 1974	N	Walkover and Interview	Aerials	Yes
56	Building - Current Residence	N	Walkover and Interview	Aerials	Yes
57	Building - Built 1993-2001	L	Walkover	Aerials	Yes
58	Gully filled prior to 1993	L	Walkover and Interview	Aerials	No
59	Building - Many outbuildings, old residence	J	Interview	Aerials	Yes
60	Building - Current Residence	K	Walkover	Aerials	Yes
61	Building - Current Residence	J	Walkover	Aerials	Yes
62	Stockpiled material placed after 2001	K	Walkover and Interview	Aerials	Yes
63	Dump or stockpiles, as well as truck parking area	K	Walkover and Interview	Aerials	No
64	Building - Small shed	O	Interview	Aerials	Yes
65	Building - Current Residence	O	Interview	Aerials	Yes
66	Building - Large shed/ maintenance area	O	Interview	Aerials	Yes
67	Building - Current Residence	Q	Walkover and Interview	Aerials	Yes
68	Farm Dump Site	L	Walkover and Interview	Aerials	Yes
69	Farm Dump Site	E	Walkover and Interview	Aerials	Yes
70	Horse Swimming area - backfilled with excavated soil from trenches excavated for the Albion Park sewer system	E	Walkover and Interview	Aerials	Yes
71	Farm Dump Site	G	Interview	Aerials	Yes
72	Farm Dump Site in gully	C	Aerials	Aerials	Yes
73	Farm Dump Site	B	Interview	Aerials	Yes
74	Information supplied by Council pertaining to a proposed Turf Farm	N	Walkover and Interview	Council Records	No
75	Test pit 43 encountered coal wash filling 0.3 m deep.	E	Walkover and Interview	Geotech	No
76	Minor market gardening undertaken in paddocks, peas and corn, primarily for household use, failed after one season	H	Interview	Interviews	No
77	Old Farm Dump site	H	Interview	Interviews	Yes
78	Buried Asbestos-trailer load of asbestos buried in front paddock.	H	Interview	Interviews	Yes
79	Joinery operates out of shed near old dairy.	H	Interview	Interviews	No
80	Shed adjacent to house used for servicing of ground maintenance vehicles, 4000 L AST on site unbunded	K	Walkover	Walkover	Yes
81	Two ASTs in storage near shed area	J	Walkover	Walkover	Yes
82	Imported Fill	L	Walkover and Interview	Interviews	Yes
83	Fuel storage	L	Interview	Interviews	No
84	Dump Site	N	Interview	Interviews	Yes
85	Filled swimming pool	C	Interview	Interviews	No
86	Diesel AST	C	Interview	Interviews	No
87	Various scrap and farm rubbish	Q	Interview	Interviews	Yes
88	Buried Animals	H	Interview	Interviews	No
89	Buried Animals	C	Interview	Interviews	No
90	Buried Animals	Q	Interview	Interviews	No
91	Buried Animals	N	Interview	Interviews	No

8.2 Areas of Concern (AEC)

The site history and inspection indicated that the site had mainly been used for agricultural and rural residential purposes. Following investigation of each PAEC and on the basis of these findings, the identified areas of environmental concern (AEC) are summarised in Table 2, together with an assessment of the potential contaminants associated with each AEC. The location of each of the AEC is shown on Drawing 10 in Appendix A.

Table 2 – Summary of Identified Areas of Environmental Concern

AEC	PAEC	Details	Property	Level of Assessment
1	1	Building – Presently used as the dairy and associated buildings	A	HBM + Limited
2	2	Building - Large, many outbuildings. Marshall Mount House	A	Limited
3	5	Eroded Gully – Filled in prior to 1963	A	Limited
4	6	Large Building many outbuildings	B	HBM + Limited
5	7	Eroded Gully – Filled in prior to 1963	B	Limited
6	8	Eroded Gully - Filled in prior to 1974	B	Limited
7	10	Building – Disused shed	C	HBM + Limited
8	13	Building – 3 buildings continuously added to the current residence	C	HBM + Limited
9	14	Building – Dairy building	C	HBM + Limited
10	16	Possible farm dump site	C	Limited
11	17	Demolished Building – Large farm shed demolished prior to 1984	C	HBM + Limited
12	18	Building – One large, with a number of small outbuildings	D	HBM + Limited
13	20	Building – Residential building	B	HBM + Limited
14	21	Building – Disused shed	C	HBM + Limited
15	23	Building – Current residence	B	HBM + Limited
16	25	Building – Current residence	R	HBM + Limited
17	26	Building – Numerous outbuildings, possibly stables	E	HBM + Limited
18	28	Building – Possible construction start of 1974	E	HBM + Limited
19	29	Demolished Building – Built 1983, demo prior to 1993	E	HBM + Limited
20	30	Building – Current shed	G	HBM + Limited
21	31	Building – Current shed	E	HBM + Limited
22	32	Building – Current residence	F	HBM + Limited
23	33	Building - Current Residence	S	HBM + Limited
24	34	Building – Current shed	F	HBM + Limited
25	35	New earth dam wall	F	HBM + Limited
26	36	Building – Current residence	G	HBM + Limited
27	39	Building – Dairy building	I	HBM + Limited
28	40	Building – Current Residence, many outbuildings	I	HBM + Limited

29	42	3 Buildings – Built 1949 northern most demolished pre 2001	H	HBM + Limited
30	44	Building – Current residence	H	HBM + Limited
31	45	Building – Current residence	I	HBM + Limited
32	48	Building - Partially demolished in 1993 (fire?)	H	HBM + Limited
33	49	Building – Current residence	M	HBM + Limited
34	53	Building – Current shed/stables	N	HBM + Limited
35	54	Building – Current residence	N	HBM + Limited
36	55	Gully – Filled prior to 1974	N	Limited
37	56	Building – Current residence	N	HBM + Limited
38	57	Building – Built 1993 – 2001	L	HBM + Limited
39	59	Building – Many outbuildings, old residence	J	HBM + Limited
40	60	Building – Current residence	K	HBM + Limited
41	61	Building – Current residence	J	HBM + Limited
42	62	Stockpiled material placed after 2001	K	Limited
43	64	Building – Small shed	O	HBM + Limited
44	65	Building – Current residence	O	HBM + Limited
45	66	Building – Large shed/maintenance area	O	HBM + Limited
46	67	Building – Current residence	Q	HBM + Limited
47	68	Farm dump site	L	Detailed
48	69	Farm dump site	E	Detailed
49	70	Horse swimming area – Backfilled with soil from Albion Park	E	Limited
50	71	Farm dump site	G	Detailed
51	72	Farm dump site in gully	C	Detailed
52	73	Farm dump site	B	Detailed
53	77	Old farm dump site	H	Detailed
54	78	Buried asbestos – Trailer load of asbestos buried in front paddock	H	Detailed
55	80	Shed adjacent to house used for servicing of ground maintenance vehicles, 4000 L AST on site unbunded	K	Detailed
56	81	Two ASTs in storage near shed area	J	Detailed
57	82	Imported fill	L	Detailed
58	84	Dump site	N	Detailed
59	87	Various scrap and farm rubbish	Q	Limited

Notes	HBM	Hazardous Building Material Survey. A hazardous building materials survey includes an inspection of each structure and collection of samples for confirmatory testing for hazardous building materials, such as asbestos containing material and lead paint.
	Limited	Based on the limited potential for contamination, an assessment of the site based on limited/targeted intrusive sampling. Sample locations would be placed judgements around the site to assess potential contamination. Sample density would be less than the required amount in NSW DECC <i>Contaminated Sites Sampling Design Guidelines</i> 1995. Based on the results, a detailed assessment may be required following the completion of the preliminary assessment.
	Detailed	A detailed level of assessment includes intrusive sampling as specified in the NSW DECC <i>Contaminated Sites Sampling Design Guidelines</i> 1995 and laboratory analysis of samples for the recommended suite of analytes.

9. CONCLUSIONS AND RECOMMENDATIONS

Based on the site history review and inspection/field mapping, the overall potential for contamination at the subject site is considered to be low.

Fifty-nine AECs were identified across the site. As the land has been proposed for residential development, it is recommended that field-based investigations be carried out in each of the identified AEC to confirm the suitability for residential land use. Appropriate scopes of work and sample quality plans should be prepared for each AEC.

Due to the site's ownership by multiple individuals for farming purposes, there are a large number of buildings on the property. It is recommended that, well before the commencement of demolition works, a Hazardous Building Materials assessment must be undertaken on all buildings, regardless of the size of the structure. This will allow the creation of a register of hazardous materials, with information on the type and condition of the hazardous materials. The register will determine the requirements and the method to be adopted for the subsequent demolition works, such that undue contamination of the site can be avoided. The creation of this register is designed to reduce the potential for unknowingly contaminating the site during building demolition.

Due to the size of the site, it is anticipated that during the course of earthworks or construction that isolated occurrences of contamination may be encountered. In order to deal with such occurrences, an Unexpected Finds Protocol will need to be developed prior to commencement of earthworks. This document will detailed the course of action to be taken should instances of contamination been found.

Considering the low potential for contamination identified at the site, rezoning for the proposed uses is deemed appropriate. Further investigations of the site and AECs will be undertaken and managed in accordance with SEPP55.

Project Application: Stage 1 - It is understood that properties N and Q comprise the boundary for Stage 1 of the development project. As for the rest of the site, it is considered that contamination does not present a constraint to development in these properties. Seven areas of environmental concern have been identified which will require some level of further investigation and production of a Stage 2 (detailed) contamination assessment in accordance with SEPP55.

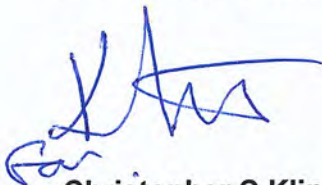
10. LIMITATIONS OF THIS REPORT

DP's assessment is necessarily based upon the result of a site history search and site inspections that were set out in the original proposal. Neither DP, nor any other reputable consultant, can provide unqualified warranties nor does DP assume any liability for site conditions not observed or accessible during the time of the investigations (ie: areas under or within buildings, thickly wooded areas, overgrown areas). Despite all reasonable care and diligence, site characteristics may change at any time in response to variations in natural conditions, chemical reactions and other events, eg: groundwater movement and or spillages of contaminating substances. These changes may occur subsequent to DP's investigations and assessment.

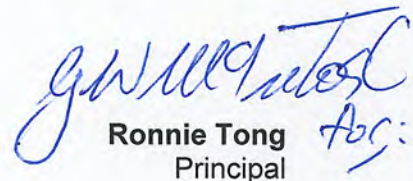
This report and associated documentation have been prepared solely for the use of Delfin Lend Lease Ltd. Any reliance assumed by third parties on this report shall be at such parties' own risk. Any ensuing liability resulting from use of the report by third parties cannot be transferred to DP.

DOUGLAS PARTNERS PTY LTD

Reviewed by



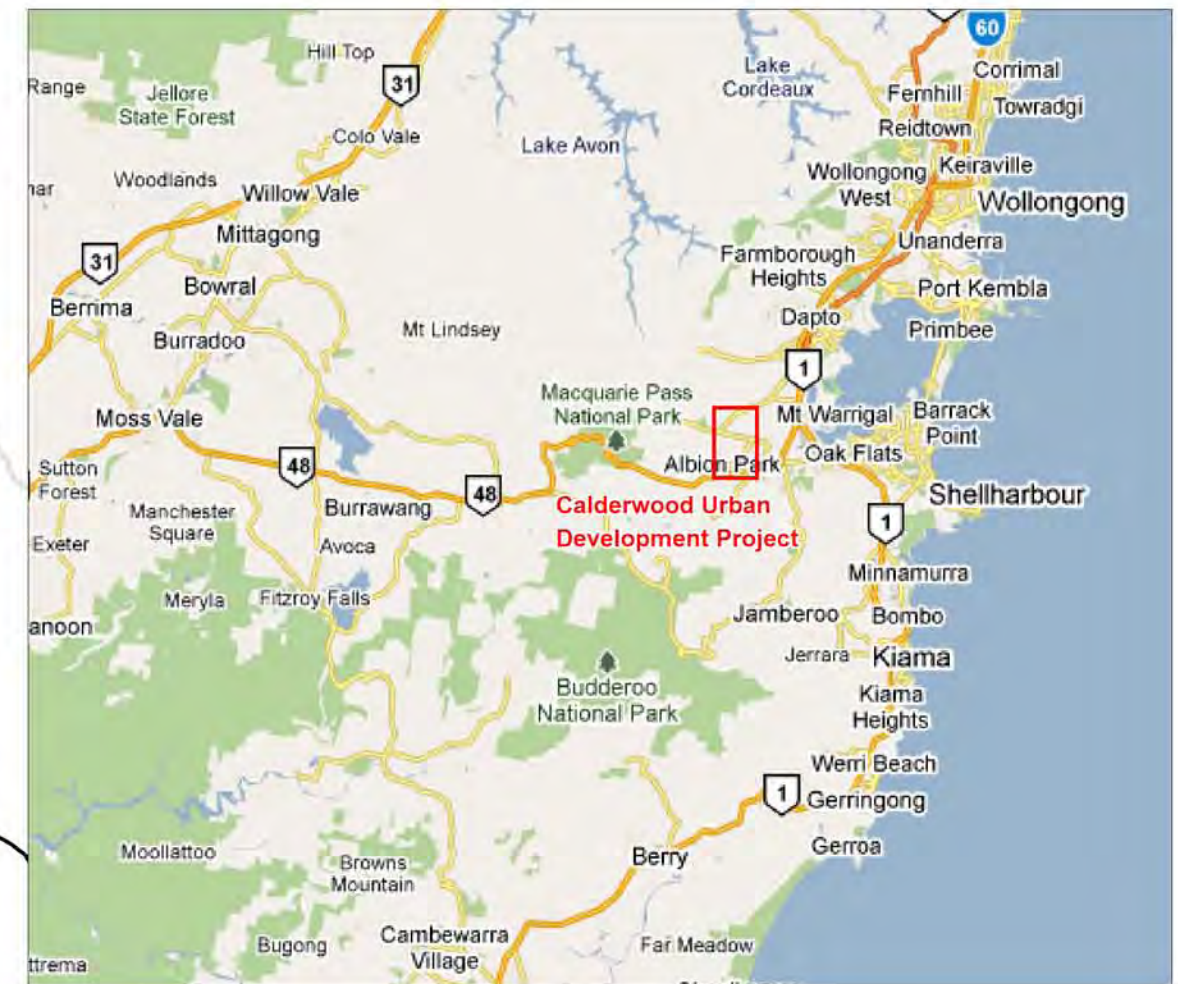
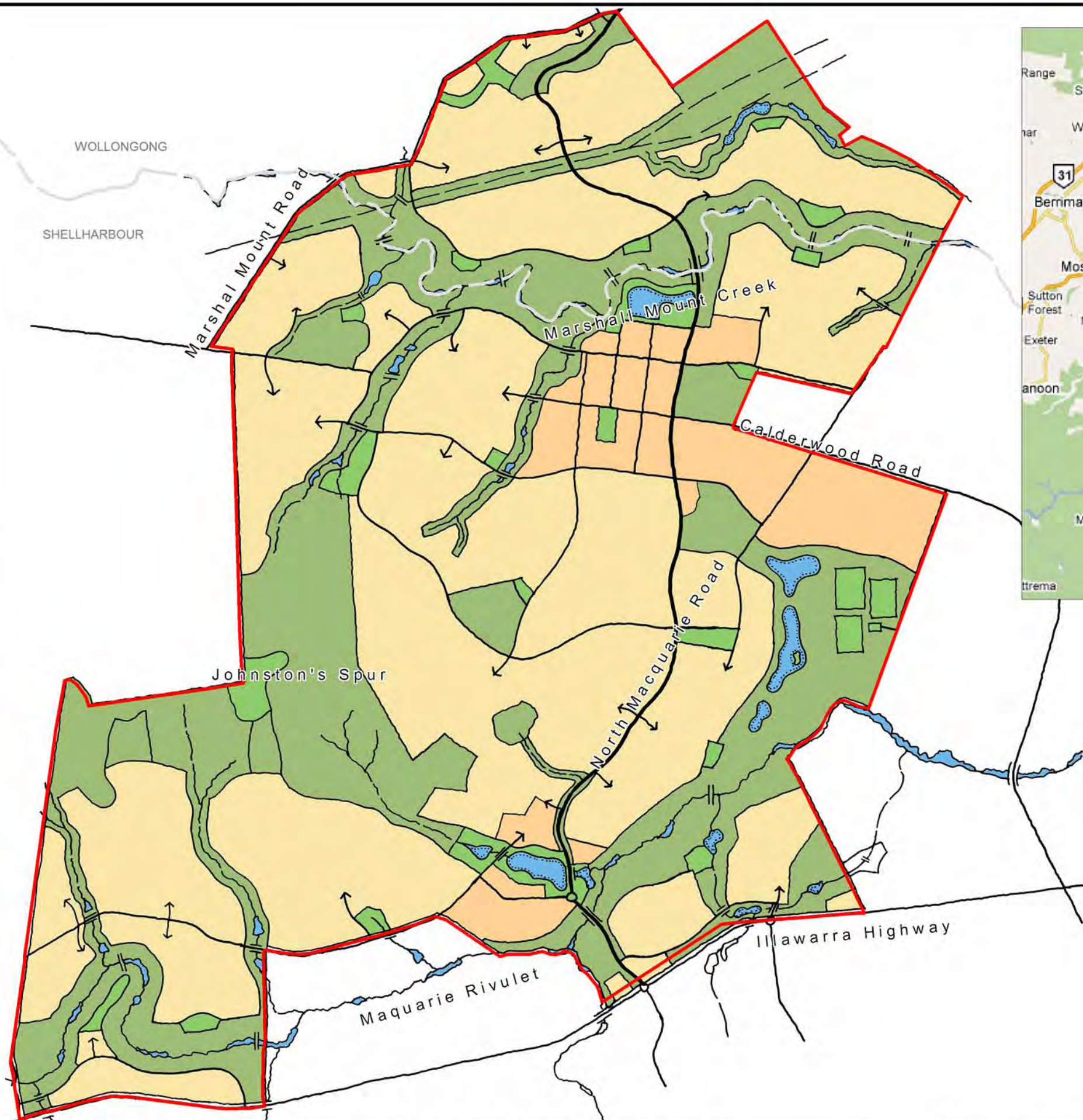
Christopher C Kline
Environmental Engineer



Ronnie Tong
Principal

APPENDIX A

Drawings



Douglas Partners
Geotechnics • Environment • Groundwater

CLIENT: DELFIN LEND LEASE LTD

DRAWN BY: CCK

APPROVED BY: CCK

SCALE: 1:15000 @A3

OFFICE: W'GONG

DATE: 24 FEB10

TITLE: CONCEPT PLAN AND LOCALITY PLAN

CONCEPT PLAN APPLICATION: CONTAMINATION STUDY

CALDERWOOD URBAN DEVELOPMENT PROJECT

PROJECT: 48742.04

DRAWING:1

REVISION: 0



Legend

- LGA Boundary
- 10 m Contour
- Site Boundary
- A Property Name



Douglas Partners
Geotechnics • Environment • Groundwater

CLIENT: DELFIN LEND LEASE LTD

DRAWN BY: CCK

APPROVED BY: CCK

SCALE: 1:15000 @A3

OFFICE: W'GONG

DATE: 24 FEB10

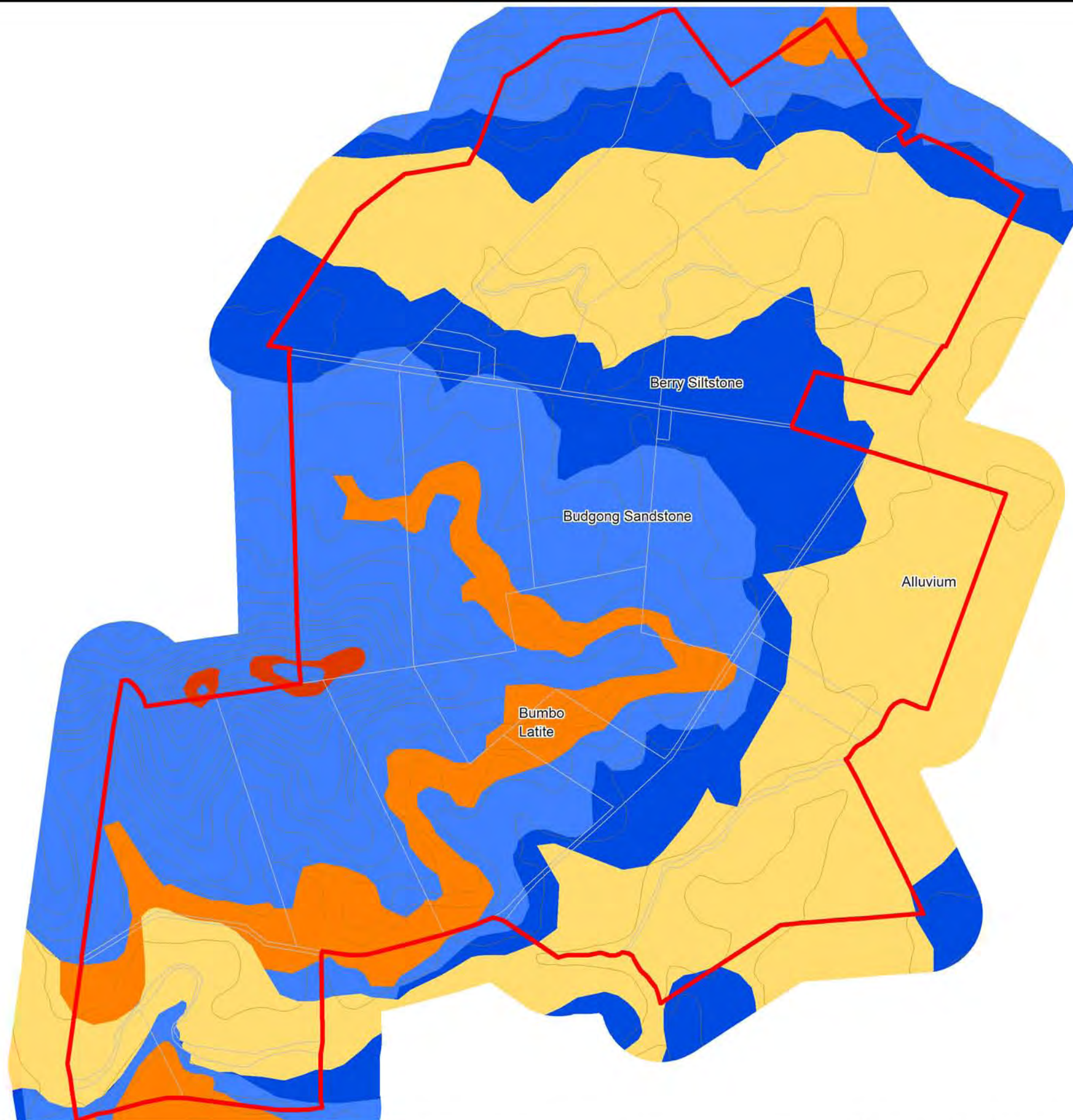
TITLE: SITE FEATURES AND PROPERTY NAMES

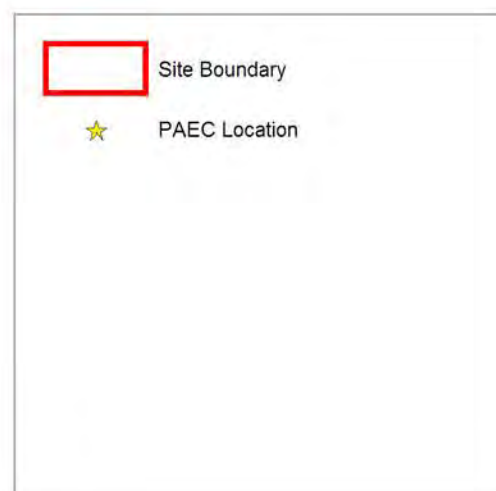
CONCEPT PLAN APPLICATION: CONTAMINATION STUDY
CALDERWOOD URBAN DEVELOPMENT PROJECT

PROJECT: 48742.04

DRAWING: 2

REVISION: 0





Douglas Partners
Geotechnics • Environment • Groundwater

CLIENT: DELFIN LEND LEASE LTD

DRAWN BY: CCK SCALE: 1:15000 @A3 OFFICE: W'GONG

APPROVED BY: CCK

DATE: 24 FEB10

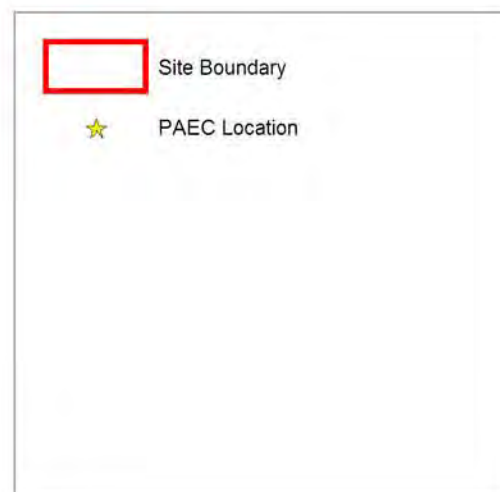
TITLE: HISTORIC AERIAL PHOTOGRAPHY 1949

CONCEPT PLAN APPLICATION: CONTAMINATION STUDY
CALDERWOOD URBAN DEVELOPMENT PROJECT

PROJECT: 48742.04

DRAWING: 4

REVISION: 0



Douglas Partners
Geotechnics • Environment • Groundwater

CLIENT: DELFIN LEND LEASE LTD

DRAWN BY: CCK | SCALE: 1:15000 @A3 | OFFICE: W'GONG

APPROVED BY: CCK

DATE: 24 FEB10

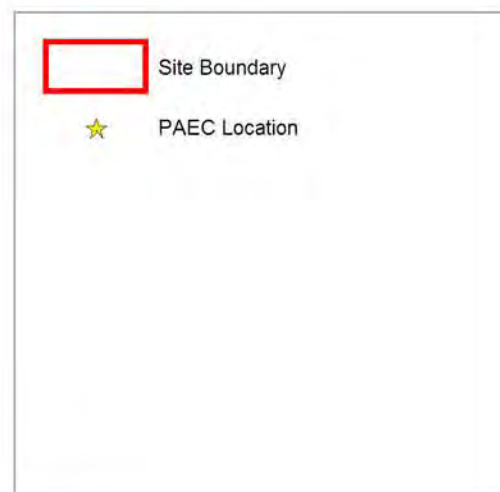
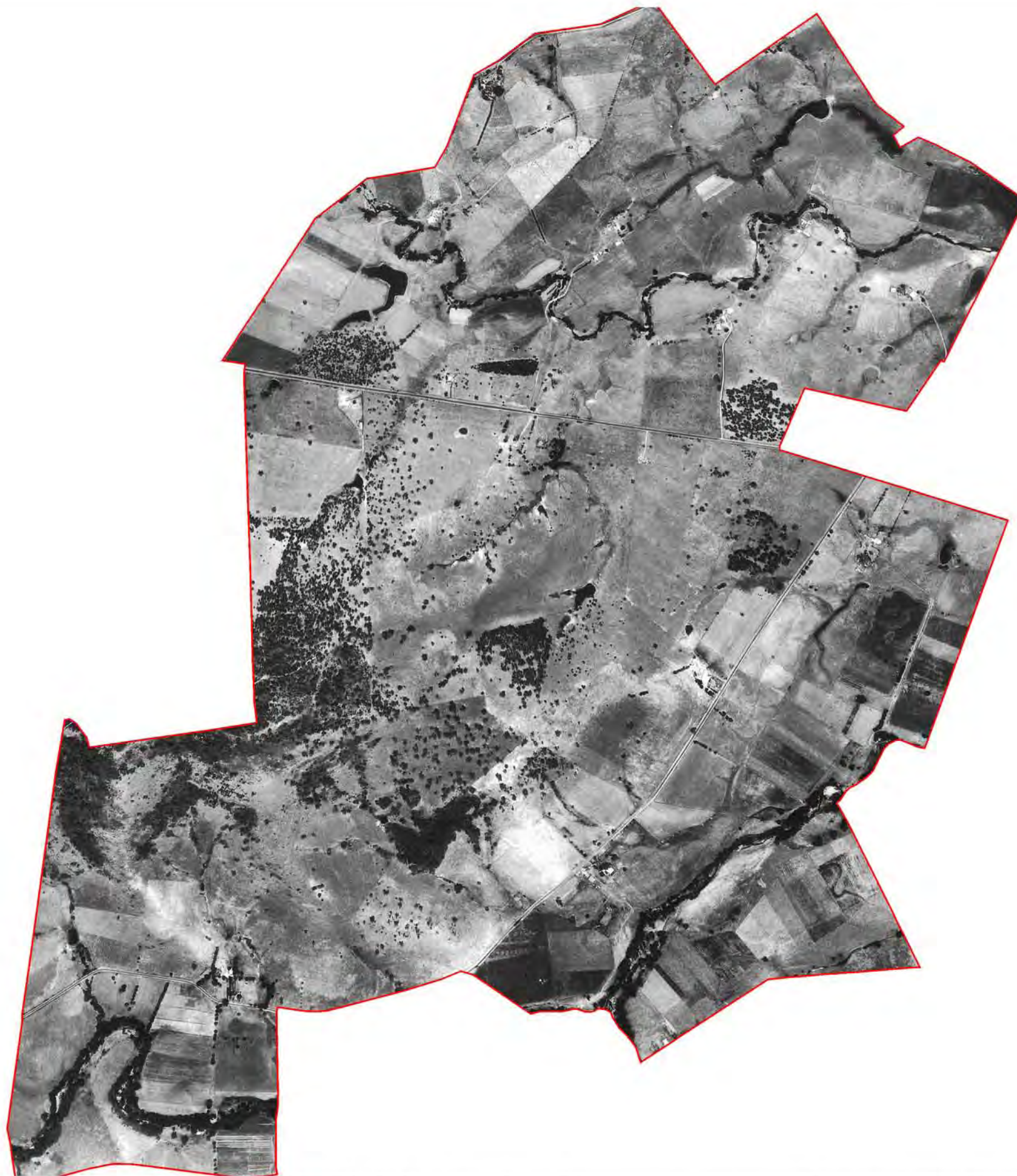
TITLE: HISTORIC AERIAL PHOTOGRAPHY 1963

CONCEPT PLAN APPLICATION: CONTAMINATION STUDY
CALDERWOOD URBAN DEVELOPMENT PROJECT

PROJECT: 48742.04

DRAWING: 5

REVISION: 0



Douglas Partners
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CLIENT: DELFIN LEND LEASE LTD

DRAWN BY: CCK SCALE: 1:15000 @A3 OFFICE: W'GONG

APPROVED BY: CCK

DATE: 24 FEB10

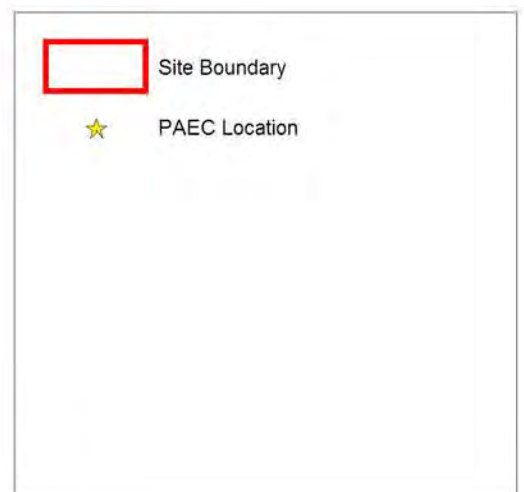
TITLE: HISTORIC AERIAL PHOTOGRAPHY 1974

CONCEPT PLAN APPLICATION: CONTAMINATION STUDY
CALDERWOOD URBAN DEVELOPMENT PROJECT

PROJECT: 48742.04

DRAWING: 6

REVISION: 0

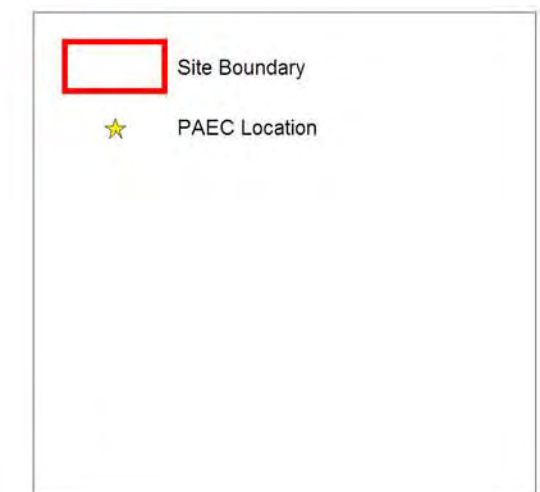


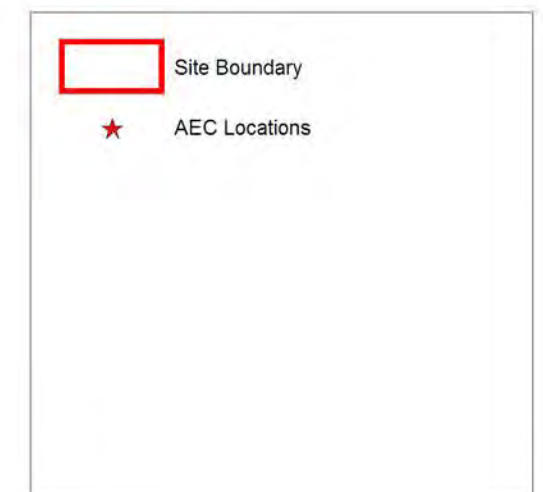
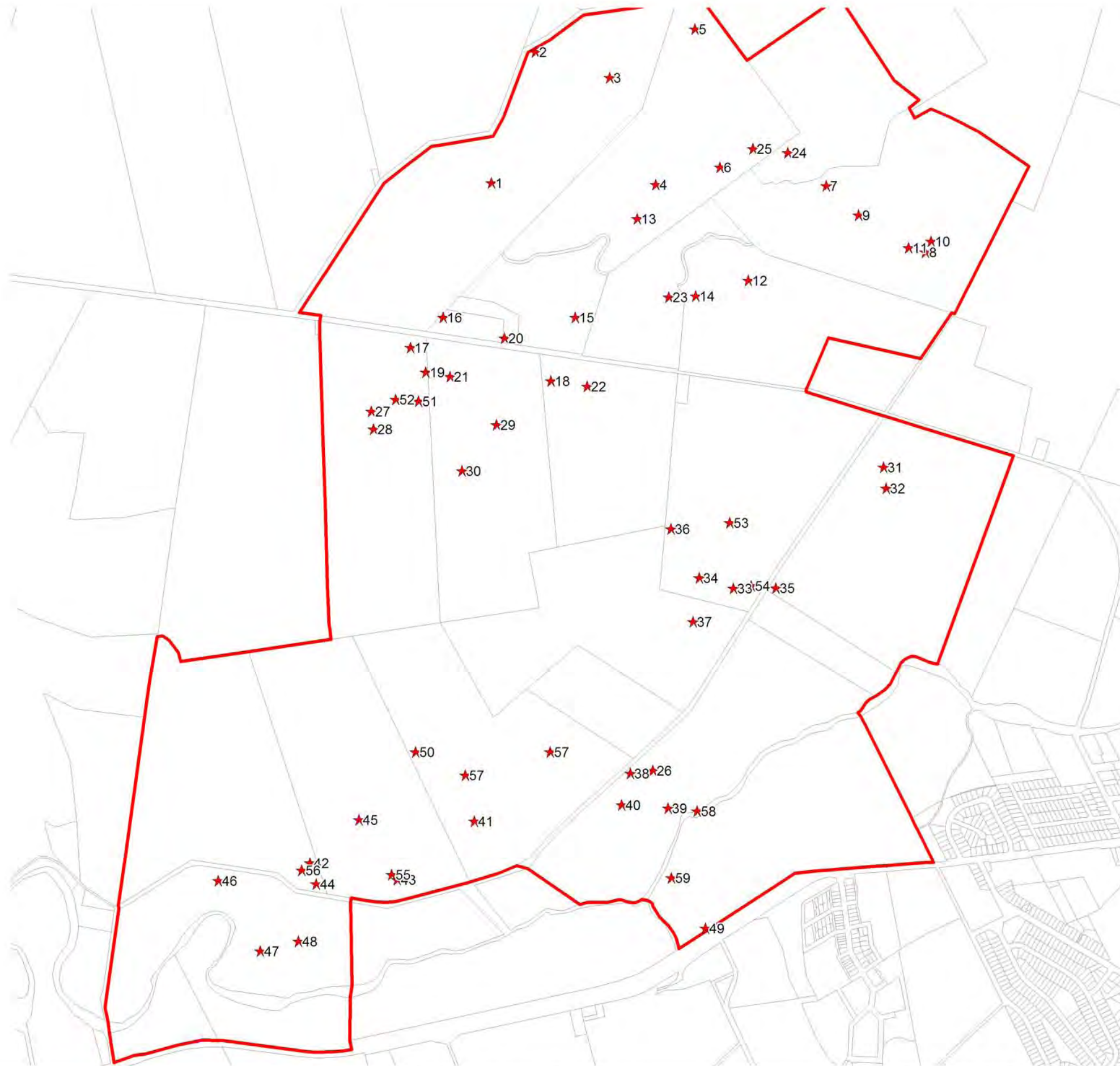


Site Boundary

★

PAEC Location





APPENDIX B

PAEC Identification and Inspection Logs

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	A	GPS Coordinates	
Grid Ref:		Easting:	292779
PAEC #:	1	Northing:	6174506

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Presently used as the Dairy and associated buildings

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Dairy shed incorporating large ashphate waste fill platform as well as a number of dump sites, including, buried drums, buried asbestos and general waste.

Reasoning:

Long history of use including, filling and waste dumping

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	A	GPS Coordinates	
Grid Ref:		Easting:	292933
PAEC #:	2	Northing:	6174965

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Large, many outbuildings. Marshal Mount House

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

Original Homestead. Still occupied, Likely to contain hazardous building materials

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	A	GPS Coordinates	
Grid Ref:		Easting:	292907
PAEC #:	3	Northing:	6174552

Identified from:

Aerials

Year: 1963

Other (list below):

Title Deed info. ☐**Details:**

Building - Small shed

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:**Reasoning:****Classified as an AEC ?**

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	A	GPS Coordinates	
Grid Ref:		Easting:	292774
PAEC #:	4	Northing:	6174559

Identified from:

Aerials

Year: 1974

Other (list below):

Title Deed info. ☐



Details:

Building - Small shed

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

Reasoning:

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	A	GPS Coordinates	
Grid Ref:		Easting:	293194
PAEC #:	5	Northing:	6174875

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐

☐

Details:

Erroded Gully - Filled in prior to 1963

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

DMc had no knowledge of filling in this area, Brick pit from MM house is close to this area

Reasoning:

Confirmation testpitting to eliminate the possibility of fill placement

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	B	GPS Coordinates	
Grid Ref:		Easting:	293354
PAEC #:	6	Northing:	6174500

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Large Building many Out Buildings.

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

Former Dairy buildings

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	B	GPS Coordinates	
Grid Ref:		Easting:	293492
PAEC #:	7	Northing:	6175045

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Erroded Gully, Filled in prior to 1963

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

KS had no knowledge of filling in this area

Reasoning:

Confirmation testpitting to eliminate the possibility of fill placement

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	B	GPS Coordinates	
Grid Ref:		Easting:	293580
PAEC #:	8	Northing:	6174561

Identified from:

Aerials

Year: 1974

Other (list below):

Title Deed info. ☐



Details:

Erroded Gully, Filled in prior to 1974

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

KS had no knowledge of filling in this area

Reasoning:

Confirmation testpitting to eliminate the possibility of fill placement

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	B	GPS Coordinates	
Grid Ref:		Easting:	293518
PAEC #:	9	Northing:	6174768

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

New Earth Dam wall

Follow up:

Interview required to ensure no external fill material used in the construction

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

Spoke to Neville Robb who built the dam, who said that all the material was natural, no fill was imported to site.

Reasoning:

No imported fill

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	293953
PAEC #:	10	Northing:	6174496

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Disused shed

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

Timber and steel sheds and small disused residence

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	293854
PAEC #:	11	Northing:	6174737

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐**Details:**

Bridge across creek - Possibly constructed as part of the electricity easement.

Follow up:

Interview required to ensure no external fill material used in the construction

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

Culvert built to allow cattle transport between paddocks. All natural material

Reasoning:

No fill material

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	294028
PAEC #:	12	Northing:	6174826

Identified from:

Aerials

Year: 1974

Other (list below):

Title Deed info. ☐



Details:

New earth dam wall

Follow up:

Interview required to ensure no external fill material used in the construction

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

Natural material from site used as Fill

Reasoning:

No fill material

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	294299
PAEC #:	13	Northing:	6174263

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐**Details:**

Building - 3 buildings continuously added to now the current residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

Original Homestead. Still occupied, Likely to contain hazardous building materials

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	294065
PAEC #:	14	Northing:	6174393

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Dairy building

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

New Dairy complex built by the finchs

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	294208
PAEC #:	15	Northing:	6174272

Identified from:

Aerials

Year: 2009

Other (list below):

Title Deed info. ☐

☐

Details:

Stockpile

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

Stockpiled roadbase material to be used for boggy areas around troughs

Reasoning:

No potential for contamination

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	294320
PAEC #:	16	Northing:	6174301

Identified from:

Aerials

Year: 2001

Other (list below):

Title Deed info. ☐



Details:

Possible farm dump site

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

GF had no knowledge of stockpiled material

Reasoning:

Visual inspection and possible testing required.

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	294241
PAEC #:	17	Northing:	6174278

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Demolished Building - Large farm shed demolished prior to 1984

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

Previous dairy and possible residence

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	D	GPS Coordinates	
Grid Ref:		Easting:	293679
PAEC #:	18	Northing:	6174165

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐**Details:**

Building - one large, with a number of small outbuildings

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

Stables

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	293925
PAEC #:	19	Northing:	6174418

Identified from:

Aerials

Year: 2001

Other (list below):

Title Deed info. ☐



Details:

Dump site/ Storage Area

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Interview		

Observations:

Storage of Brewers Grain for feedlot

Reasoning:

No potential for contamination

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	B	GPS Coordinates	
Grid Ref:		Easting:	293290
PAEC #:	20	Northing:	6174381

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Residential building

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

Disused residence

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	293494
PAEC #:	21	Northing:	6174109

Identified from:

Aerials

Year: 1974

Other (list below):

Title Deed info. ☐**Details:**

Building - Disused shed

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Aerials		

Observations:

Small farm shed

Reasoning:

Hazardous building material inspection required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	B	GPS Coordinates	
Grid Ref:		Easting:	293318
PAEC #:	22	Northing:	6174414

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Demolished prior to 1984

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

KS had no knowledge of building demolition

Reasoning:

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	B	GPS Coordinates	
Grid Ref:		Easting:	293072
PAEC #:	23	Northing:	6174035

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

Current residence, no hazardous building materials noted during brief inspection

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	A	GPS Coordinates	
Grid Ref:		Easting:	292733
PAEC #:	24	Northing:	6174426

Identified from:

Aerials

Year: 2001

Other (list below):

Title Deed info. ☐



Details:

Farm Dump - Scrap material in trees

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

To be investigated as part of PAEC1

Reasoning:

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	R	GPS Coordinates	
Grid Ref:		Easting:	292610
PAEC #:	25	Northing:	6174035

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	View from boundary		

Observations:

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	E	GPS Coordinates	
Grid Ref:		Easting:	292359
PAEC #:	26	Northing:	6173706

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐**Details:**

Building - Numerous outbuildings, possibly stables

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	28-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

During breif inspection hazardous building materials noted in buildings

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	E	GPS Coordinates	
Grid Ref:		Easting:	292455
PAEC #:	27	Northing:	6173639

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

New Earth Dam wall

Follow up:

Interview required to ensure no external fill material used in the construction

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	28-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Natural material from site used as Fill

Reasoning:

No imported fill

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	E	GPS Coordinates	
Grid Ref:		Easting:	292497
PAEC #:	28	Northing:	6173929

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Possible construction start of 1974

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	28-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Current Residence

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	E	GPS Coordinates	
Grid Ref:		Easting:	292366
PAEC #:	29	Northing:	6173643

Identified from:

Aerials

Year: 1993

Other (list below):

Title Deed info. ☐



Details:

Demolished Building - Built 1983, demo prior to 1993

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	28-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Demolished buildings were stables. Construction type unknown

Reasoning:

Limited testing for hazardous building materials in soil will be required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	G	GPS Coordinates	
Grid Ref:		Easting:	292988
PAEC #:	30	Northing:	6173812

Identified from:

Aerials

Year: 1963

Other (list below):

Title Deed info. ☐



Details:

Building - Current Shed

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Steel and timber shed used for steel storage, some fill used in construction. Was the site of a previous timber shed that was demolished

Reasoning:

Fill materials and industrial usage

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	E	GPS Coordinates	
Grid Ref:		Easting:	292549
PAEC #:	31	Northing:	6173843

Identified from:

Aerials

Year: 1974

Other (list below):

Title Deed info. ☐



Details:

Building - Current Shed

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	28-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

No Harardous building materials noted during brief inspection

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	F	GPS Coordinates	
Grid Ref:		Easting:	292798
PAEC #:	32	Northing:	6173658

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:		Photographed:	
Date Inspected:			
Inspection Method:			

Observations:

Original Homestead. Still occupied, Likely to contain hazardous building materials

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	S	GPS Coordinates	
Grid Ref:		Easting:	292825
PAEC #:	33	Northing:	6173962

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	View from boundary		

Observations:

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	F	GPS Coordinates	
Grid Ref:		Easting:	292677
PAEC #:	34	Northing:	6173498

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Current Shed

Follow up:

Walk over required

Inspection Details:

Inspected by:		Photographed:	
Date Inspected:			
Inspection Method:			

Observations:

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	F	GPS Coordinates	
Grid Ref:		Easting:	292634
PAEC #:	35	Northing:	6173828

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

New Earth Dam wall

Follow up:

Interview required to ensure no external fill material used in the construction

Inspection Details:

Inspected by:		Photographed:	
Date Inspected:			
Inspection Method:			

Observations:

Interview required to confirm no imported fill materials used in construction

Reasoning:

Yes

Classified as an AEC ?

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	G	GPS Coordinates	
Grid Ref:		Easting:	293115
PAEC #:	36	Northing:	6173794

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover		

Observations:

Brick Home and attached garage, no fibro materials noted in breif inspection.

Reasoning:

Low risk for contamination but due to continued use for 25 years validation testing is required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	T	GPS Coordinates	
Grid Ref:		Easting:	293452
PAEC #:	37	Northing:	6173812

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Possible Building. Unclear on Aerial photo - Not visible by 1963.

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover		

Observations:

Reasoning:

Low potential for contamination

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	293918
PAEC #:	38	Northing:	6173530

Identified from:

Aerials

Year: 2009

Other (list below):

Title Deed info. ☐



Details:

Stockpiled material

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

The stockpile is trees etc pushed together.

Reasoning:

No anthropogenic Material

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	I	GPS Coordinates	
Grid Ref:		Easting:	294152
PAEC #:	39	Northing:	6173510

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Dairy building

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

No Harardous building materials noted during brief inspection

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	I	GPS Coordinates	
Grid Ref:		Easting:	294162
PAEC #:	40	Northing:	6173436

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐

☐

Details:

Building - Current Residence, many out buildings

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

No Harardous building materials noted during brief inspection

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	I	GPS Coordinates	
Grid Ref:		Easting:	294131
PAEC #:	41	Northing:	6173393

Identified from:

Aerials

Year: 2001

Other (list below):

Title Deed info. ☐



Details:

Demolished Building - Built 1949 demo pre 2001

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

The demolished shed was actually blown over in a wind storm, it was a timber and steel shed.

Reasoning:

No hazardous building materials in shed

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	293627
PAEC #:	42	Northing:	6173085

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

3 Buildings - Built 1949 Northern most demolished pre 2001

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

The buildings were the original residence and dairy. The dairy burnt down in 1995, and the associated timber/steel sheds were demolished.

Reasoning:

Continued use over a century and building demolitions

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	293697
PAEC #:	43	Northing:	6173366

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

New Earth Dam wall

Follow up:

Interview required to ensure no external fill material used in the construction

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Information from the interview indicates that all dams were built with local materials and did not use imported filling.

Reasoning:

No imported fill

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	293507
PAEC #:	44	Northing:	6173123

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐**Details:**

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover		

Observations:

Brick Home and attached garage, no fibro materials noted in breif inspection.

Reasoning:

Low risk for contamination but due to continued use for 25 years validation testing is required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	I	GPS Coordinates	
Grid Ref:		Easting:	293775
PAEC #:	45	Northing:	6173087

Identified from:

Aerials

Year: 2001

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

No Harardous building materials noted during brief inspection

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	293795
PAEC #:	46	Northing:	6173367

Identified from:

Aerials

Year: 2009

Other (list below):

Title Deed info. ☐



Details:

Farm Dump - Scrap material in trees

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

The scrap is actually fallen trees and other vegetation pushed together.

Reasoning:

No anthropogenic Material

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	G	GPS Coordinates	
Grid Ref:		Easting:	293286
PAEC #:	47	Northing:	6173344

Identified from:

Aerials

Year: 1974

Other (list below):

Title Deed info. ☐



Details:

Farm Dam Wall - Significantly expanded since 1949

Follow up:

Interview required to ensure no external fill material used in the construction

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

Earth Dam wall

Reasoning:

Based on the interview all dams were sourced from natural materials with no imported fill.

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	293408
PAEC #:	48	Northing:	6173294

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Partially demolished in 1993 (fire?)

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	Yes
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

Old stables, the roof has blown off and not been repaired.

Reasoning:

Hazardous building materials inspection will be required.

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	M	GPS Coordinates	
Grid Ref:		Easting:	293485
PAEC #:	49	Northing:	6172968

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover		

Observations:

Brick home and attached garage and farm shed, no fibro materials noted in breif inspection. Fill used in shed construction.

Reasoning:

Low risk for contamination but due to coniued use for 25 years validation testing is required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	Q	GPS Coordinates	
Grid Ref:		Easting:	294080
PAEC #:	50	Northing:	6172393

Identified from:

Aerials

Year: 1963

Other (list below):

Title Deed info. ☐**Details:**

Gully/creek lined filled prior to 1963

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

John Keys has no knowledge, believes any filling would be very minor, more likely just continued cultivation

Reasoning:

Low potential for contamination

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	Q	GPS Coordinates	
Grid Ref:		Easting:	293762
PAEC #:	51	Northing:	6172345

Identified from:

Aerials

Year: 1963

Other (list below):

Title Deed info. ☐**Details:**

Gully/creek lined filled prior to 1963

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

John Keys has no knowledge, believes any filling would be very minor, more likely just continued cultivation

Reasoning:

Low potential for contamination

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	Q	GPS Coordinates	
Grid Ref:		Easting:	293616
PAEC #:	52	Northing:	6172258

Identified from:

Aerials

Year: 1963

Other (list below):

Title Deed info. ☐



Details:

Gully/creek lined filled prior to 1963

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

John Keys has no knowledge, believes any filling would be very minor, more likely just continued cultivation

Reasoning:

Low potential for contamination

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	N	GPS Coordinates	
Grid Ref:		Easting:	293266
PAEC #:	53	Northing:	6172437

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Current shed/stables

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Currently used as storage shed/stables. Was previously the old dairy building, No hazardous building materials noted during breif inspection. One AST noted on hardstand

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds including the AST area

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	N	GPS Coordinates	
Grid Ref:		Easting:	293344
PAEC #:	54	Northing:	6172448

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Original Homestead. Still occupied, Likely to contain hazardous building materials

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	N	GPS Coordinates	
Grid Ref:		Easting:	293398
PAEC #:	55	Northing:	6172315

Identified from:

Aerials

Year: 1963

Other (list below):

Title Deed info. ☐



Details:

Gully - Filled prior to 1974

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

No records of filling

Reasoning:

Low risk of contamination but validation testing should be carried out.

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	N	GPS Coordinates	
Grid Ref:		Easting:	293236
PAEC #:	56	Northing:	6172327

Identified from:

Aerials

Year: 1993

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Current residence.

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	L	GPS Coordinates	
Grid Ref:		Easting:	292720
PAEC #:	57	Northing:	6172270

Identified from:

Aerials

Year: 2001

Other (list below):

Title Deed info. ☐



Details:

Building - Built 1993-2001

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover		

Observations:

Brick Home and attached garage, no hazardous building materials noted in brief inspection.

Reasoning:

Low risk for contamination but due to continued use for 25 years validation testing is required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	L	GPS Coordinates	
Grid Ref:		Easting:	292837
PAEC #:	58	Northing:	6172402

Identified from:

Aerials

Year: 2009

Other (list below):

Title Deed info. ☐



Details:

Gully filled prior to 1993

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	Yes
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Owner had no knowledge of fill, and there was no fill evident during walkover

Reasoning:

Considered to be an anomaly on the aerial photograph

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	J	GPS Coordinates	
Grid Ref:		Easting:	292121
PAEC #:	59	Northing:	6172114

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Many outbuildings, old residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

No Harardous building materials noted during brief inspection

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	K	GPS Coordinates	
Grid Ref:		Easting:	292449
PAEC #:	60	Northing:	6172065

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover		

Observations:

Brick home and attached garage, no fibro materials noted in breif inspection.

Reasoning:

Low risk for contamination but due to continued use for 25 years validation testing is required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	J	GPS Coordinates	
Grid Ref:		Easting:	292166
PAEC #:	61	Northing:	6172049

Identified from:

Aerials

Year: 1993

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover		

Observations:

Brick home and attached garage, no fibro materials noted in breif inspection.

Reasoning:

Low risk of contamination but validation testing should be carried out.

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	K	GPS Coordinates	
Grid Ref:		Easting:	292316
PAEC #:	62	Northing:	6172275

Identified from:

Aerials

Year: 2009

Other (list below):

Title Deed info. ☐



Details:

Stockpiled material placed after 2001

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	Yes
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Stockpile is vegetation, left overs from landscaping operations, some building rubble noted.

Reasoning:

Low risk of contamination but validation testing should be carried out.

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	K	GPS Coordinates	
Grid Ref:		Easting:	292409
PAEC #:	63	Northing:	6172140

Identified from:

Aerials

Year: 2009

Other (list below):

Title Deed info. ☐



Details:

Dump or stockpiles, as well as truck parking area

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	Yes
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Stockpile were mulshes used for landscaping operations.

Reasoning:

Not considered to be a contamination risk

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	O	GPS Coordinates	
Grid Ref:		Easting:	291823
PAEC #:	64	Northing:	6172061

Identified from:

Aerials

Year: 1993

Other (list below):

Title Deed info. ☐



Details:

Building - Small shed

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Small farm shed

Reasoning:

Hazardous building material inspection required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	O	GPS Coordinates	
Grid Ref:		Easting:	291970
PAEC #:	65	Northing:	6171815

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Current residence.

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	O	GPS Coordinates	
Grid Ref:		Easting:	292103
PAEC #:	66	Northing:	6171849

Identified from:

Aerials

Year: 1984

Other (list below):

Title Deed info. ☐



Details:

Building - Large shed/ maintenance area

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Large storage and machinery shed

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	Q	GPS Coordinates	
Grid Ref:		Easting:	293529
PAEC #:	67	Northing:	6171895

Identified from:

Aerials

Year: 1949

Other (list below):

Title Deed info. ☐



Details:

Building - Current Residence

Follow up:

Walk over required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Walkover and Interview		

Observations:

Current residence.

Reasoning:

Hazardous building materials inspection will be required as well as contamination testing from the building footprint and immediate surrounds

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	L	GPS Coordinates	
Grid Ref:		Easting:	292514
PAEC #:	68	Northing:	6172512

Identified from:

Aerials

Year: 2009

Other (list below):

Title Deed info. ☐

☐

Details:

Farm Dump Site

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	Yes
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Dump of farming equipment and non peutrescible household rubbish on the ground surface. Not used for chemical dump

Reasoning:

Low risk of contamination but validation testing should be carried out.

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	E	GPS Coordinates	
Grid Ref:		Easting:	292524
PAEC #:	69	Northing:	6173741

Identified from:

Aerials

Year: 2009

Other (list below):

Title Deed info. ☐



Details:

Farm Dump Site

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	28-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Farm dump site was removed by PB to tip. No materials remain

Reasoning:

Invasive testing of the former tip site is required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	E	GPS Coordinates	
Grid Ref:		Easting:	292444
PAEC #:	70	Northing:	6173748

Identified from:

Aerials

Year: 1993

Other (list below):

Title Deed info. ☐



Details:

Horse Swimming area - Backfilled with soil from the Albion Park Sewer In

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	28-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Area has been filled to a depth of 2 m with reportedly natural materials brought to site by Sydney Water, during the sewer connection at Albion Park

Reasoning:

Low risk of contamination but validation testing should be carried out.

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	G	GPS Coordinates	
Grid Ref:		Easting:	293401
PAEC #:	71	Northing:	6174106

Identified from:

Aerials

Year: 1974

Other (list below):

Title Deed info. ☐



Details:

Farm Dump Site

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

Scrap material associated with rebuild of shed no peutrescibles

Reasoning:

Uncontrolled dumping site

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	293818
PAEC #:	72	Northing:	6174612

Identified from:

Aerials

Year: 1993

Other (list below):

Title Deed info. ☐**Details:**

Farm Dump Site in gully

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	16-Feb-10		
Inspection Method:	Aerials		

Observations:

Farm dumpsite not used for 15 years, prior to that used for the dumping of all waste

Reasoning:

Uncontrolled dumping site

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	B	GPS Coordinates	
Grid Ref:		Easting:	293696
PAEC #:	73	Northing:	6174626

Identified from:

Aerials

Year: 1993

Other (list below):

Title Deed info. ☐



Details:

Farm Dump Site

Follow up:

Walk over and interview required

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

Site used as a rubbish tip

Reasoning:

Uncontrolled dumping site with building material waste

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	N	GPS Coordinates	
Grid Ref:		Easting:	293720
PAEC #:	74	Northing:	6172720

Identified from:

Council Records
 Title Deed info. ☐

Year:

Other (list below):



Details:

Information supplied by Council pertaining to a proposed Turf Farm

Follow up:

Discuss with landowner whether turf Farm eventuated, if so what was the arrangement for herbicides, pesticides and chemical storage

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Interview with SB indicated that the turf farm, operated for only 1 year, and was not successful.

Reasoning:

Short term operation. No storage of materials on site

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	E	GPS Coordinates	
Grid Ref:		Easting:	292357
PAEC #:	75	Northing:	6173774

Identified from:

Geotechnical

Year:

Other (list below):

Title Deed info. ☐**Details:**

Test pit 43 encountered coal wash filling 0.3 m deep.

Follow up:

Interview and walkover of site

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	28-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Minor coal wash fill used as roadbase gravels.

Reasoning:

Limited amount of material

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	76	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐

☐

Details:

Minor market gardening undertaken in paddocks, peas and corn, primarily for household use, failed after one season

Follow up:

Only minor remains of the gardening activity can be seen (furrows), no pesticides or herbicides used

Inspection Details:

Inspected by:	15-Jan-10	Photographed:	
Date Inspected:	Interview		
Inspection Method:	No		

Observations:

Very limited gardening use, not potential for pesticide build up

Reasoning:

No

Classified as an AEC ?

CCK

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	77	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Old Farm Dump site

Follow up:

Inspection Details:

Inspected by:	CCK	Photographed:	Yes
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

Scrap metal, car parts, fencing materials, buried when present owners first took the property.

Reasoning:

Validation testing required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	78	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Buried Asbestos. Trailer load of asbestos buried in front paddock.

Follow up:

No sign of asbestos materials at surface

Inspection Details:

Inspected by:	15-Jan-10	Photographed:	
Date Inspected:	Interview		
Inspection Method:	No		

Observations:

Investigation, remediation and validation required

Reasoning:

Yes

Classified as an AEC ?

CCK

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	79	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐**Details:**

Joinery operates out of shed near old dairy.

Follow up:**Inspection Details:**

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

Large shed. Very limited potential for contamination. Very limited use of chemicals

Reasoning:

Will be assessed as part of PAEC42

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	K	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	80	Northing:	

Identified from:

Walkover

Year:

Other (list below):

Title Deed info. ☐



Details:

Shed adjacent to house used for servicing of ground maintenance vehicles, 4000 L AST on site unbunded

Follow up:

Refueling and maintenance undertaken on non hardstand areas

Inspection Details:

Inspected by:	15-Jan-10	Photographed:	
Date Inspected:	Walkover		
Inspection Method:	Yes		

Observations:

Possible hydrocarbon contamination, further testing required

Reasoning:

Yes

Classified as an AEC ?

CCK

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	J	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	81	Northing:	

Identified from:

Walkover

Year:

Other (list below):

Title Deed info. ☐**Details:**

Two ASTs in storage near shed area

Follow up:**Inspection Details:**

Inspected by:	CCK	Photographed:	Yes
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover		

Observations:

Further questioning to establish if these tanks were ever in use and where

Reasoning:

Low risk of contamination but validation testing should be carried out.

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	L	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	82	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Imported Fill

Follow up:

Inspection Details:

Inspected by:	CCK	Photographed:	Yes
Date Inspected:	15-Jan-10		
Inspection Method:	Walkover and Interview		

Observations:

Imported fill to build motorcross track and jump, containing building rubble, No AC sheeting noted in brief inspection

Reasoning:

Imported fill of unknown quality, validation testing required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	L	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	83	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐**Details:**

Fuel storage

Follow up:**Inspection Details:**

Inspected by:	CCK	Photographed:	No
Date Inspected:	15-Jan-10		
Inspection Method:	Interview		

Observations:

44 Gallon Drum used for tractor refuel, only ever half full no spills

Reasoning:

Kept on hardstand, minor quantities

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	N	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	84	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐**Details:**

Dump Site

Follow up:**Inspection Details:**

Inspected by:	CCK	Photographed:	No
Date Inspected:	21-Jan-10		
Inspection Method:	Interview		

Observations:

SB said that prior to 1980 that the creek line had been used as a dump site for general farm waste. Since that time all waste had gone to tip.

Reasoning:

Further inspection and testing required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	85	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Filled swimming pool

Follow up:

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

A swimming pool and the rear of the house was filled with clean fill from the Flinders Estate

Reasoning:

Visual inspection is required during investigations of PAEC13

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	86	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐**Details:**

Diesel AST

Follow up:**Inspection Details:**

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Diesel AST moved from old dairy to new dairy, currently on hardstand, no leaks or spills.

Reasoning:

Old dairy location should be assessed as part of PAEC17

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	Q	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	87	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Various scrap and farm rubbish

Follow up:

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Waste and scrap metal dumped by previous owners along the creek line

Reasoning:

Further visual inspection required

Classified as an AEC ?

Yes

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	H	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	88	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Buried Animals

Follow up:

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Reasoning:

Not considered to be a contamination risk

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	C	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	89	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Buried Animals

Follow up:

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Reasoning:

Not considered to be a contamination risk

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	Q	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	90	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Buried Animals

Follow up:

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Reasoning:

Not considered to be a contamination risk

Classified as an AEC ?

No

PAEC Identification & Inspection Log

Client: Delfin Lend Lease Limited
Project: Masterplanning Geotechnical Study
Location: Calderwood

Project Number: 48742.00
Date: 20 Nov. 09
Logged: CCK

Location:

Property:	N	GPS Coordinates	
Grid Ref:		Easting:	
PAEC #:	91	Northing:	

Identified from:

Interviews

Year:

Other (list below):

Title Deed info. ☐



Details:

Buried Animals

Follow up:

Inspection Details:

Inspected by:	CCK	Photographed:	No
Date Inspected:	17-Feb-10		
Inspection Method:	Interview		

Observations:

Reasoning:

Not considered to be a contamination risk

Classified as an AEC ?

No

APPENDIX C

Title Deed Summary Sheets

ACN: 108 037 029
Ph: 02 9233 1314
Fax: 9233 2878

Service First Registration Pty Ltd

Suite 102, Level 1, 64 Castlereagh Street
Sydney 2000
PO Box 1539 Sydney 2000
DX 189 Sydney

Summary of Owners Report

Department of Lands
Sydney

Deeds Branch

Address: - Calderwood Road, Albion Park Rail

As regards: -

Lot 1 D.P. 998349, Lot 1 D.P. 194903, Lot 1 D.P. 608238,
Lots 1, 8, 5 & 4 D.P. 259137

1} Lot 1 D.P 998349

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
11.04.1882 (1882 to 1937)	Herbert Bartlett (Farmer)	Book 243 No. 400
15.12.1937 (1937 to 1955)	Herbert William Gear (Farmer) & Oliver George Gear (Farmer)	Book 1801 No. 411
02.08.1955 (1955 to 1962)	Herbert William Gear (Farmer)	Book 2347 NO. 717
19.07.1962 (1962 to 1965)	Mollie Gear (Widow)	Book 2618 No. 890
1965 (1965 to 1968)	John Henry Webb (Farmer) & Dorothy Mavis Webb (Married Woman)	Book 2773 No. 813
26.01.1968 (1968 to 1973)	John Brian Morrison & Gloria Diana Bleasdale	Book 3129 No. 110
27.03.1986 (1986 to 2009)	Gloria Diana Bleasdale	Book 3661 No. 906 now 1/998349
09.04.2009 (2009 to date)	# Mark Desmond Bleasdale # Paul Adam Bleasdale & # Denise Alison Bleasdale	1/998349

Denotes current registered proprietors

2} Lot 1 D.P. 608238

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
11.04.1876 (1876 to 1924)	William Thomas (Farmer)	Book 159 No. 494
12.12.1924 (1924 to 1929)	Alfred Thomas (Farmer)	Book 1370 No. 785
03.12.1929 (1929 to 1931)	Thomas John Love (Farmer)	Book 1585 No. 316
23.10.1931 (1931 to 1936)	Cecil Owen Honey (Farmer)	Book 1632 No. 996
04.05.1936	John Thomas (Surveyor)	Book 1748 No. 779

Service First Registration Pty Ltd

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Ph: 02 9233 1314
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DX 189 Sydney

(1936 to 1936)		
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2} Lot 1 D.P. 608238 - Continued

04.05.1936 (1936 to 1982)	Cecil Henry Thomas (Farmer)	Book 1750 No. 202 Now Vol 14219 Fol 50
09.10.1980 (1980 to 1995)	Gilbert Dal Busco (Builder) & Marinella Dal Busco (Married Woman)	Vol 14219 Fol 50 now 1/608238
22.05.1995 (1995 to date)	# Carel Bernard Leussink & # Muriel Barbara Leussink	1/608238

Denotes current registered proprietors

3} Lot 1 D.P. 194903

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
02.05.1916 (1916 to 1922)	Ebenezer Hamilton (Farmer now retired)	Book 1081 No. 703
16.04.1922 (1922 to 1923)	Ernest Edward Keys (Farmer)	Book 1258 No. 323
18.07.1923 (1923 to 1956)	Robert John Dudgeon (Farmer)	Book 1311 No. 202
10.03.1956 (1956 to 1960)	Arthur Maxwell Dudgeon (Farmer) Raymond Hugh Dudgeon (Farmer) Thomas James Dudgeon (Farmer) & Ronald John Dudgeon (Farmer)	Book 2375 No. 919
01.07.1960 (1960 to 1978)	Raymond Hugh Dudgeon (Farmer) & Arthur Maxwell Dudgeon (Farmer)	Book 2535 No. 908
19.05.1978 (1978 to 1994)	Raymond Hugh Dudgeon (Farmer) Graeme Jeffrey Dudgeon (Dairy Farmer) & Joy Jennifer Dudgeon (Married Woman)	Book 3321 No. 264 now 1/194903
02.02.1994 (1994 to date)	# Colin John Swan & # Jacqueline Mary Swan	1/194903

Denotes current registered proprietors

4} Lot 1 D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
09.10.1915 (1915 to 1919)	Alexander Fraser (Freeholder)	Vol 2613 No. 144
17.11.1919 (1919 to 1921)	Thomas Bruce Brown (Farmer)	Vol 2613 No. 144
23.05.1921 (1921 to 1945)	Archibald Graham (Farmer) Norman Robert John Graham (Farmer) Harold Nelson Graham (Farmer)	Vol 2613 No. 144
12.11.1945 (1945 to 1946)	Harold Nelson Graham (Farmer) Pearl Elizabeth Graham (Married Woman) (Transmission Application not investigated)	Vol 2613 Fol 144

Service First Registration Pty Ltd

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PO Box 1539 Sydney 2000
DX 189 Sydney

Lot 1 D.P. 259137 - Continued

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
16.09.1946 (1946 to 1960)	Arthur Maxwell Dudgeon (Farmer) Raymond Hugh Dudgeon (Farmer) Thomas James Dudgeon (Farmer) & Ronald John Dudgeon (Farmer)	Vol 2613 No. 144 now Vol 5659 Fol 157
01.07.1960 (1960 to 1964)	Thomas James Dudgeon (Farmer) & Ronald John Dudgeon (Farmer)	Vol 5659 Fol 157 now Vol 8050 Fol's 40 & 41
14.05.1964 (1964 to 1972)	Warren Alexander Hindmarsh (Dairy Farmer) & Fanny Isabel Hindmarsh (Married Woman)	Vol 8050 Fol's 40 & 41 now Vol 9764 Fol 66
08.11.1972 (1972 to 1981)	Improved Pastures Pty Limited	Vol 9764 Fol 66 Now Vol 14209 Fol 29
19.06.1981 (1981 to 1990)	Alfred Edward Ledner & Margaret Beryl Ledner	Vol 14209 Fol 29 now 1/259137
13.12.1990 (1990 to date)	# Jose Estalote & # Nicole Louise Estalote	1/259137

Denotes current registered proprietors

4} Lot 8 D.P. 259137

As regards the parts highlighted yellow and green on the attached copy of D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
19.07.1913 (green) 26.04.1917 (yellow) (1913 to 1947)	Alfred Edwin Sawtell (Farmer)	Vol 2383 Fol 211 & Vol 2752 Fol 228
28.11.1947 (1947 to 1948)	Jane Sawtell (Spinster) & Frederick Godfrey Pearson (Farmer) (Transmission Application not investigated)	Vol 2383 Fol 211 & Vol 2752 Fol 228
04.05.1948 (1948 to 1953)	Jane Sawtell (Spinster) Alfred James Aitken (Farmer) Leslie Archibald Aitken (Farmer) & Eric Douglas Aitken (Farmer)	Vol 2383 Fol 211 & Vol 2752 Fol 228
11.02.1953 (1953 to 1972)	Leslie Archibald Aitken (Farmer)	Vol 2383 Fol 211 & Vol 2752 Fol 228
08.11.1972 (1972 to 1981)	Improved Pastures Pty Limited	Vol 2383 Fol 211 & Vol 2752 Fol 228 now Vol 14209 Fol 36

For search continued as to these parts, See Page No. 4

As regards the part highlighted orange on the attached copy of D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
16.09.1946 (1946 to 1960)	Arthur Maxwell Dudgeon (Farmer) Raymond Hugh Dudgeon (Farmer) Thomas James Dudgeon (Farmer) & Ronald John Dudgeon (Farmer)	Vol 2613 No. 144 now Vol 5659 Fol 157
01.07.1960	Thomas James Dudgeon (Farmer) &	Vol 5659 Fol 157 now Vol 8050

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(1960 to 1964)	Ronald John Dudgeon (Farmer)	Fol's 40 & 41
14.05.1964 (1964 to 1972)	Warren Alexander Hindmarsh (Dairy Farmer) & Fanny Isabel Hindmarsh (Married Woman)	Vol 8050 Fol's 40 & 41 now Vol 9764 Fol 66
<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
08.11.1972 (1972 to 1981)	Improved Pastures Pty Limited	Vol 9764 Fol 66 Now Vol 14209 Fol 36

For search continued as to these parts, See below

Search continued as to the whole of Lot 8 D.P. 259137.

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
19.03.1981 (1981 to 1984)	Gerhard Josef Fischl (Business Proprietor) Suzanne Margaret Fischl (Married Woman) Gerald Anthony Briggs (Company Director) Janette May Briggs (Married Woman)	Vol 14209 Fol 36
09.02.1984 (1984 to date)	# Gerhard Josef Fischl (Business Proprietor) # Suzanne Margaret Fischl (Married Woman) # Janette May Briggs (Married Woman)	Vol 14209 Fol 36 now 8/259137

Denotes current registered proprietors

5} Lot 5 D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
11.04.1876 (1876 to 1925)	Thomas Armstrong (Farmer) & His deceased estate	Book 158 No .852
01.08.1925 (1925 to 1934)	Angus Alexander Armstrong (Farmer)	Book 1399 No. 901
15.04.1934 (1934 to 1939)	Thomas Henry O'Brien (Farmer)	Book 1844 No 891
06.11.1939 (1939 to 1940)	Angus Alexander Armstrong (Farmer)	Book 1859 No. 796
03.01.1940 (1940 to 1971)	John Thomas McInerney (Farmer) & Ellen McInerney (Married Woman)	Book 1862 No. 66
26.10.1971 (1971 to 1973)	Daniel Bede McInerney (Farmer) & Austin Patrick McInerney (Farmer)	Book 3035 No. 582
03.05.1973 (1973 to 1981)	Improved Pastures Pty Limited	Book 3095 Fol 224 now Vol 14209 Fol 33
07.07.1981 (1981 to date)	# McCracken Investments Pty Limited	Vol 14209 Fol 33 now 5/259137

Denotes current registered proprietor

6} Lot 4 D.P. 259137

As regards the part highlighted yellow and blue on the attached copy of D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
11.04.1876 (1876 to 1925)	Thomas Armstrong (Farmer) & His deceased estate	Book 158 No .852
01.08.1925 (1925 to 1934)	Angus Alexander Armstrong (Farmer)	Book 1399 No. 901
15.04.1934	Thomas Henry O'Brien (Farmer)	Book 1844 No 891

Service First Registration Pty Ltd

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(1934 to 1939)		
06.11.1939 (1939 to 1940)	Angus Alexander Armstrong (Farmer)	Book 1859 No. 796

As regards the part highlighted yellow and blue on the attached copy of D.P. 259137 - continued

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
03.01.1940 (1940 to 1971)	John Thomas McInerney (Farmer) & Ellen McInerney (Married Woman)	Book 1862 No. 66
26.10.1971 (1971 to 1973)	Daniel Bede McInerney (Farmer) & Austin Patrick McInerney (Farmer)	Book 3035 No. 582
03.05.1973 (1973 to 1981)	Improved Pastures Pty Limited	Book 3095 Fol 224 now Vol 14209 Fol 32

For search continued as to this part, see below

As regards the part highlighted orange on the attached copy of D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
24.07.1915 (1915 to 1955)	Elizabeth Hartley (Married Woman)	Book 1236 No. 636
22.12.1955 (1955 to 1956)	Wyndham Harold Jack Hartley (Farmer) Carlisle Bartlett Hartley (Farmer)	Book 2357 No. 943
22.12.1956 (1956 to 1971)	Daniel Bede McInerney (Farmer) & Austin Patrick McInerney (Farmer)	Book 2426 No 520
03.05.1973 (1973 to 1981)	Improved Pastures Pty Limited	Book 3095 No. 224 Now Vol 14209 Fol 32

For search continued as to this part, see below

Search continued as to the whole of Lot 4 D.P. 259137.

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
19.06.1981 (1918 to 1989)	Harold Burt Lukies & Anna Lukies	Vol 14209 Fol 32 Now 4/259137
10.01.1989 (1989 to date)	# Liana Boscoscuro	4/259137

Yours Sincerely
Mark Groll
27 October 2009
(Ph: 0412 199 304)

ACN: 108 037 029
Ph: 02 9233 1314
Fax: 9233 2878

Service First Registration Pty Ltd

Suite 102, Level 1, 64 Castlereagh Street
Sydney 2000
PO Box 1539 Sydney 2000
DX 189 Sydney

Summary of Owners Report

Department of Lands
Sydney

Deeds Branch

Address: - Calderwood Road, Albion Park Rail

As regards: -

Lot 2 D.P. 2534, Lot 22 D.P. 809156, Lot 2 D.P. 158988,
Lot 10 D.P. 619547, Lot 2 D.P. 608238, Lot 112 D.P. 851153
Also Lot 1 D.P. 1044038

1} Lot 2 D.P. 2534

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
31.05.1916 (1916 to 1921)	Frederick Donald McDonald (Farmer) & Marion Pearson (Married Woman)	Vol 2670 Fol's 160 & 161
15.04.1921 (1921 to 1974)	Frederick Donald McDonald (Farmer)	Vol 2670 Fol's 160 & 161 Now Vol 3181 Fol 170
28.10.1974 (1974 to 1974)	George Frederick McDonald (Farmer) & Jean Elizabeth Allen (Married Woman) (Section 93 Application not investigated)	Vol 3181 Fol 170
28.06.1974 (1974 to date)	# G.F. McDonald Pty Limited	Vol 3181 Fol 170 Now 2/2534

Denotes current registered proprietor

2} Lot 22 D.P. 809156 & Lot 10 D.P. 619547

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
25.03.1913 (1913 to 1920)	Godfrey Pearson (Farmer) & Melmoth Pearson (Farmer)	Vol 2350 Fol's 2356 & 237
19.10.1920 (1920 to 1925)	Melmoth Pearson (Farmer)	Vol 2350 Fol's 2356 & 237 now Vol 3122 Fol 69
24.07.1925 (1925 to 1936)	Matilda Pearson (Widow) & Herbert Leslie Pearson (Labourer) (Transmission Application not investigated)	Vol 3122 Fol 69
27.02.1936 (1936 to 1939)	Matilda Pearson (Widow)	Vol 3122 Fol 69
23.05.1939 (1939 to 1948)	Walter Wilfred Pearson (Farmer)	Vol 3122 Fol 69 Now Vol 5062 Fol 2
14.04.1948 (1948 to 1979)	Albert Ralph Armstrong (Farmer)	Vol 5062 Fol 2

Service First Registration Pty Ltd

ACN: 108 037 029
Ph: 02 9233 1314
Fax: 9233 2878

Suite 102, Level 1, 64 Castlereagh Street
Sydney 2000
PO Box 1539 Sydney 2000
DX 189 Sydney

2} Lot 22 D.P. 809156 & Lot 10 D.P. 619547 – continued

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
03.09.1979 (1979 to 1979)	John Joseph Graham (Farmer) & John Raymond Carmody (Retired Farmer) (Transmission Application not investigated)	Vol 5062 Fol 2
23.10.1979 (1979 to 1982)	Baldwin Farms Pty Ltd	Vol 5062 Fol 2 Now Vol 14602 Fol's 135 & 136

Lot 22 D.P. 809156 - continued

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
21.06.1982 (1982 to 1998)	Christopher James Smith & Kathleen Mary Smith	Vol 14602 Fol 136 Now 22/809156
05.08.1998 (1998 to date)	# Kathleen Mary Smith	22/809156

Denotes current registered proprietor

Lot 10 D.P. 619547 – continued

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
12.03.1982 (1982 to 1996)	Victor John Sercombe & Valerie Sercombe	Vol 14602 Fol 135 Now 10/619547
13.08.1996 (1996 to 2002)	Barry James Whipps & Julie Ann Whipps	10/619547
12.06.2002 (2002 to date)	# Rafael Corbacho & Eulalia Corbacho	10/619547

Denotes current registered proprietors

3} Lot 2 D.P. 158988

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
29.04.1913 (1913 to 1923)	George Heininger (Farmer)	Book 996 No. 972
05.02.1923 (1923 to 1923)	Thomas Miller (Farmer)	Book 1291 No. 354
22.12.1923 (1923 to 1944)	Mary Elizabeth Munro Lucas (Married Woman, now Widow)	Book 1330 No. 364
14.07.1944 (1944 to 1946)	Walter Wilfred Pearson (Farmer)	Book 1947 No. 512
05.12.1946 (1946 to 1962)	Herbert William Gear (Farmer)	Book 2004 No. 900
19.07.1962 (1962 to 1973)	Mollie Gear (Widow)	Book 2618 No. 890
31.08.1973 (1973 to 1980)	Max Alexander (Farmer), Betty Olive Alexander (Married Woman), Ian Robert Alexander (Farmer) & Josephine Winifred Alexander (Married Woman)	Book 3114 Fol 6

Service First Registration Pty Ltd

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Fax: 9233 2878

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DX 189 Sydney

3} Lot 2 D.P. 158988 - continued

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
01.10.1980 (1980 to 2002)	Peter Russell Finch (Farmer), Garry Raymond Finch (Farmer) & Bill Brookfield Finch (Farmer)	Book 3433 No. 566
09.04.2002 (2002 to date)	# Peter Russell Finch (Farmer), # Garry Raymond Finch (Farmer) Also # Finch & Sons Limited (As Trustee for) Peter & Sandra Finch Family Trust & Garry & Heather Finch Family Trust	Book 4343 No. 625 Now 2/158988

Denotes current registered proprietors

4} Lot 1 D.P. 1044038

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
31.03.1883 (1883 to 1937)	Herbert Bartlett (Farmer) & His deceased estate	Book 268 No. 248
15.12.1937 (1937 to 1955)	Herbert William Gear (Farmer) & Oliver George Gear (Farmer)	Book 1801 No. 411
02.08.1955 (1955 to 1962)	Herbert William Gear (Farmer)	Book 2347 No. 717
19.07.1962 (1962 to 1973)	Mollie Gear (Widow)	Book 2618 No. 890
31.08.1973 (1973 to 1980)	Max Alexander (Farmer), Betty Olive Alexander (Married Woman), Ian Robert Alexander (Farmer) & Josephine Winifred Alexander (Married Woman)	Book 3114 Fol 6
01.10.1980 (1980 to 2002)	Peter Russell Finch (Farmer), Garry Raymond Finch (Farmer) & Bill Brookfield Finch (Farmer)	Book 3433 No. 566
09.04.2002 (2002 to date)	# Peter Russell Finch (Farmer), # Garry Raymond Finch (Farmer) Also # Finch & Sons Limited (As Trustee for) Peter & Sandra Finch Family Trust & Garry & Heather Finch Family Trust	Book 4343 No. 625 Now 2/158988

Denotes current registered proprietors

5} Lot 2 D.P. 608238

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
11.04.1876 (1876 to 1924)	William Thomas (Farmer)	Book 159 No. 494
12.12.1924 (1924 to 1929)	Alfred Thomas (Farmer)	Book 1370 No. 785

Service First Registration Pty Ltd

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Fax: 9233 2878

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DX 189 Sydney

5} Lot 2 D.P. 608238 - Continued

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
03.12.1929 (1929 to 1931)	Thomas John Love (Farmer)	Book 1585 No. 316
23.10.1931 (1931 to 1936)	Cecil Owen Honey (Farmer)	Book 1632 No. 996
04.05.1936 (1936 to 1936)	John Thomas (Surveyor)	Book 1748 No. 779
04.05.1936 (1936 to 1982)	Cecil Henry Thomas (Farmer)	Book 1750 No. 202 Now Vol 14219 Fol 51
28.10.1982 (1982 to 1988)	Incarната Pty Limited	Vol 14219 Fol 51
23.02.1988 (1988 to 1996)	Jan Dorene Farrell	Vol 14219 Fol 51 now 2/608238
02.05.1996 (1996 to date)	# Novero Pty Limited	2/608238

Denotes current registered proprietor

6} Lot 112 D.P. 851153

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
11.04.1876 (1876 to 1926)	John Hael (or Heal) (Farmer)	Book 158 No. 853
02.07.1926 (1926 to 1940)	Daniel Hael (Farmer)	Book 1434 No. 117
02.04.1940 (1940 to 1972)	Cecil Henry Thomas (Farmer)	Book 1868 No. 682
20.12.1972 (1972 to 1978)	Ian Douglas Thomas (Farmer)	Book 3084 No. 801
10.08.1978 (1978 to 1985)	Brian James Gray (Curator) & Joseph Alexandra Gray (Retired)	Book 3333 No. 730
30.07.1985 (1985 to 2000)	Christopher James Smith (Farmer)	Book 3645 No. 531 now 112/851153
21.03.2000 (2000 to date)	# Kathleen Mary Smith (Transmission Application not investigated)	112/851153

Yours Sincerely
Mark Groll
16 October 2009
(Ph: 0412 199 304)

ACN: 108 037 029
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Fax: 9233 2878

Service First Registration Pty Ltd

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PO Box 1539 Sydney 2000
DX 189 Sydney

Summary of Owners Report

Department of Lands
Sydney

Deeds Branch

Address: - Calderwood Road, Albion Park Rail

As regards: -
Lots 2, 3 & 6 D.P.259137, Lot 42 D.P. 878122
Also Lot 1 D.P. 996926

1} Lot 1 D.P 996926

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
09.08.1883 (1883 to 1929)	James Condon (Farmer)	Book 371 No. 166
11.09.1929 (1929 to 1935)	William Henry Swan (Farmer)	Book 1576 No. 141
12.06.1935 (1935 to 1949)	Alice Ada Swan (Widow)	Book 1720 No. 883
03.06.1949 (1949 to 1982)	Alexander Wallace Swan (Farmer)	Book 2087 No. 690
23.03.1982 (1982 to 1994)	Colleen Olive Coates (Married Woman)	Book 3504 No. 132
13.12.1994 (1994 to date)	John Thomas Keys & Ermatina Ingrid Keys	Book 4080 No. 940 now 1/996926

Denotes current registered proprietors

2} Lot 42 D.P. 878122

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
08.11.1917 (1917 to 1947)	Thomas Bernard Stapleton (Farmer) & John Andrew Stapleton (Farmer)	Book 1123 No. 229
16.06.1947 (1947 to 1952)	Thomas Bernard Stapleton (Farmer)	Book 2033 No. 844
14.01.1952 (1952 to 1954)	John Thomas Bennett (Mine Shiftman)	Book 2209 No. 151
30.07.1954 (1954 to 1972)	Cecil Roy Swan (Dairy Farmer)	Book 2354 No. 759
14.07.1972 (1972 to 2003)	Colleen Olive Coates (Married Woman)	Book 3062 No. 935 now 42/878122
10.11.203 (2003 to date)	# Mark John Swan & # Jane Theresa Swan	42/878122

Denotes current registered proprietors

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3} Lot 6 D.P. 259137

As regards the part highlighted yellow on the attached copy of D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
11.04.1876 (1876 to 1925)	Thomas Armstrong (Farmer) & His deceased estate	Book 158 No .852
01.08.1925 (1925 to 1934)	Angus Alexander Armstrong (Farmer)	Book 1399 No. 901
15.04.1934 (1934 to 1939)	Thomas Henry O'Brien (Farmer)	Book 1844 No 891
06.11.1939 (1939 to 1940)	Angus Alexander Armstrong (Farmer)	Book 1859 No. 796
03.01.1940 (1940 to 1971)	John Thomas McInerney (Farmer) & Ellen McInerney (Married Woman)	Book 1862 No. 66
26.10.1971 (1971 to 1973)	Daniel Bede McInerney (Farmer) & Austin Patrick McInerney (Farmer)	Book 3035 No. 582
03.05.1973 (1973 to 1981)	Improved Pastures Pty Limited	Book 3095 Fol 224 now Vol 14209 Fol 34

For search continued as to this part, See Below

As regards the part highlighted orange on the attached copy of D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
01.09.1913 (1913 to 1949)	Hector George Fraser (Farmer)	Book 1006 No. 926
01.12.1949 (1949 to 1965)	Nicholas Cameron Craig (Farmer)	Book 2111 No. 297
06.04.1965 (1065 to 1972)	Horace James Blissett (Farmer) & Harriett Elizabeth Blissett (Married Woman)	Book 2748 No. 400
09.11.1972 (1972 to 1981)	Improved Pastures Pty Limited	Book 3078 No. 405 now Vol 14209 Fol 34

For search continued as to this part, See Below

Search continued as to the whole of Lot 6 D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
01.12.1981 (1981 to 2001)	Frederick Wylie Borjeson & Joy Borjeson	Vol 14209 Fol 34 now 6/259137
14.03.2001 (2001 to 2001)	Joy Borjeson	6/259137
31.05.2001 (2001 to date)	# Joy Borjeson & # Stephen Keith Borjeson	6/259137

Denotes current registered proprietors

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4} Lot 3 D.P. 259137

As regards the part highlighted orange on the attached copy of D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
01.09.1913 (1913 to 1949)	Hector George Fraser (Farmer)	Book 1006 No. 926
01.12.1949 (1949 to 1965)	Nicholas Cameron Craig (Farmer)	Book 2111 No. 297
06.04.1965 (1965 to 1972)	Horace James Blissett (Farmer) & Harriett Elizabeth Blissett (Married Woman)	Book 2748 No. 400
09.11.1972 (1972 to 1981)	Improved Pastures Pty Limited	Book 3078 No. 405 now Vol 14209 Fol 31

For search continued as to this part, See Below

As regards the part highlighted yellow on the attached copy of D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
11.04.1876 (1876 to 1925)	Thomas Armstrong (Farmer) & His deceased estate	Book 158 No .852
01.08.1925 (1925 to 1934)	Angus Alexander Armstrong (Farmer)	Book 1399 No. 901
15.04.1934 (1934 to 1939)	Thomas Henry O'Brien (Farmer)	Book 1844 No 891
06.11.1939 (1939 to 1940)	Angus Alexander Armstrong (Farmer)	Book 1859 No. 796
03.01.1940 (1940 to 1971)	John Thomas McInerney (Farmer) & Ellen McInerney (Married Woman)	Book 1862 No. 66
26.10.1971 (1971 to 1973)	Daniel Bede McInerney (Farmer) & Austin Patrick McInerney (Farmer)	Book 3035 No. 582
03.05.1973 (1973 to 1981)	Improved Pastures Pty Limited	Book 3095 Fol 224 now Vol 14209 Fol 31

For search continued as to these parts, See below

Search continued as to the whole of Lot 3 D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
29.05.1981 (1981 to 1984)	A. Strazdine Pty Limited	Vol 14209 Fol 31
22.02.1984 (1984 to 1993)	Donald Marshall Lindsay	Vol 14209 Fol 31 now 3/259137
10.02.1993 (1993 to 1993)	Drew Michael Lindsay, Mark Donald Lindsay & Scott Lindsay & Jenny Jones	3/259137
14.07.1993 (1993 to 1999)	Scott Lindsay	3/259137
13.12.1999 (1999 to date)	# Gavin Wayne Lowcock & # Andrea Carol Lowcock	3/259137

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Denotes current registered proprietors

4} Lot 2 D.P. 259137

As regards the part highlighted yellow on the attached cadastre map

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
09.10.1915 (1915 to 1919)	Alexander Fraser (Freeholder)	Vol 2613 No. 144
17.11.1919 (1919 to 1921)	Thomas Bruce Brown (Farmer)	Vol 2613 No. 144
23.05.1921 (1921 to 1945)	Archibald Graham (Farmer) Norman Robert John Graham (Farmer) Harold Nelson Graham (Farmer)	Vol 2613 No. 144
12.11.1945 (1945 to 1946)	Harold Nelson Graham (Farmer) Pearl Elizabeth Graham (Married Woman) (Transmission Application not investigated)	Vol 2613 Fol 144
16.09.1946 (1946 to 1960)	Arthur Maxwell Dudgeon (Farmer) Raymond Hugh Dudgeon (Farmer) Thomas James Dudgeon (Farmer) & Ronald John Dudgeon (Farmer)	Vol 2613 No. 144 now Vol 5659 Fol 157
01.07.1960 (1960 to 1964)	Thomas James Dudgeon (Farmer) & Ronald John Dudgeon (Farmer)	Vol 5659 Fol 157 now Vol 8050 Fol's 40 & 41
14.05.1964 (1964 to 1972)	Warren Alexander Hindmarsh (Dairy Farmer) & Fanny Isabel Hindmarsh (Married Woman)	Vol 8050 Fol's 40 & 41 now Vol 9764 Fol 66
08.11.1972 (1972 to 1981)	Improved Pastures Pty Limited	Vol 9764 Fol 66 Now Vol 14209 Fol 30

For search continued as to this part, See Below

As regards the part highlighted orange on the attached cadastre map

The recitals in Conveyance Book 2357 No. 943 dated 22.12.1955 recited that the vendors therein have stood in possession of this land for 50 years. In view of this it would seem that they have occupies this land since approximately 1905.

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
?1905 (1905 to 1955)	Wyndham Jack Harold Hartley (Grazier) & Carlisle Bartlett Hartley (Grazier)	Possessory title as referred to in Book 2357 No. 943
22.12.1955 (1955 to 1956)	Daniel Bede McInerney (Dairy Farmer) & Austin Patrick McInerney (Dairy Farmer)	Book 2357 No. 943
03.05.1973 (1973 to 1981)	Improved Pastures Pty Limited	Book 3095 No. 224 Now Vol 14209 Fol 30

Search continued as to the whole of Lot 2 D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
?1905 (1905 to 1955)	Wyndham Jack Harold Hartley (Grazier) & Carlisle Bartlett Hartley (Grazier)	Possessory title as referred to in Book 2357 No. 943
02.10.1981 (1981 to 1983)	John Diderikus Van Essen & Willie Van Essen	Vol 14209 Fol 30
07.12.1983 (1983 to 1987)	Donald Marshall Lindsay & Delma Joan Lindsay	Vol 14209 Fol 30
02.07.1987 (1987 to 1993)	Donald Marshall Lindsay	Vol 14209 Fol 30 now 2/259137

Email: grolly1@bigpond.net.au

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Search continued as to the whole of Lot 2 D.P. 259137

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
10.02.1993 (1993 to 1997)	Mark Donald Lindsay Scott Lindsay & Jenny Jones (Transmission Application not investigated)	2/259137
08.07.1997 (1997 to 2001)	Don Lindsay Properties Pty Limited	2/259137
14.02.2001 (2001 to date)	# Roberto De Jesus Guevara & #America Del Carmen Guevara	2/259137

Denotes current registered proprietors

Yours Sincerely
Mark Groll
25 February 2010
(Ph: 0412 199 304)

APPENDIX D

Standard Interview Sheets

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property Q

Project Number: 48742
Date: 17 Feb 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

2416 Illawarra Highway

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since 1994 – Previously used as dairy

Question 3 – Any present or former intensive agriculture?

None

Question 4 – Any present or former market gardens, orchards or nurseries?

None

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Dairy

Question 6 – Any known use of filling materials on site?

Shaly rock used for the roads from another property owned by J Keys

Question 7 – Any known history of Illegal dumping?

None

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

1 x 800 L tank. There have been no spills. Tank is on hardstand

Question 9 – Was there a central chemical storage? What chemicals were kept?

Very few chemicals which included, dairy detergents in 200 L plastic containers
which were stored in a shed. Some herbicides, such as roundup.

Question 10 – Any known instances of spills or accidents?

None

Question 11 – What is the history of pesticide/herbicide application?

Poured on trench in the yards

Question 12 – Were cattle dips used on site?

None

Question 13 – Cattle spraying areas? If no, where were animals treated?

Yards – pour on drench

Question 14 – Any buildings that may have been demolished? Construction type?

Old shed near dairy of slab timber construction with an iron roof

Question 15 – Any use of any part of the site by other individuals or companies?

No

Question 16 – How and where was waste disposed on the site? Historically?

Skip bins and CCL bins were used. General scraps and farm rubbish along creek.
Old silage and some broken concrete in silage pit

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Old system comprised gal pipes. New system comprises poly pipes

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

No

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

None known

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property O

Project Number: 48742
Date: 16 Feb 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since 1987. No prior involvement

Question 3 – Any present or former intensive agriculture?

None

Question 4 – Any present or former market gardens, orchards or nurseries?

5 acres used for potatoes prior to 1987. The remainder agisted for dairy cows.

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

1987 – 1997 site use for cattle grazing. 1997 to present, site used for breeding
race horses

Question 6 – Any known use of filling materials on site?

Coalwash used for road on southern side of property prior to 1987

Question 7 – Any known history of Illegal dumping?

None. Only on road reserve near creek

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

Diesel in 3000 L tank currently in service. Petrol tank rusted out and not in use.
Both tanks are on hardstand

Question 9 – Was there a central chemical storage? What chemicals were kept?

None required

Question 10 – Any known instances of spills or accidents?

No known fires or spills

Question 11 – What is the history of pesticide/herbicide application?

Some round-up used on the property

Question 12 – Were cattle dips used on site?

None

Question 13 – Cattle spraying areas? If no, where were animals treated?

Spraying only occurred for last 7 years. Prior to that, none was undertaken

Question 14 – Any buildings that may have been demolished? Construction type?

No

Question 15 – Any use of any part of the site by other individuals or companies?

No

Question 16 – How and where was waste disposed on the site? Historically?

Skip bins were used. Vegetable matter in pile near water pump

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Poly pipes are present on site. No concrete pipes

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

None known

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

No

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property C

Project Number: 48742
Date: 16 Feb 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

440 North Macquarie Road

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since 1980 – Previously used as dairy owned by Alexanders and prior to that by
Huntley Gear

Question 3 – Any present or former intensive agriculture?

None

Question 4 – Any present or former market gardens, orchards or nurseries?

None

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Cattle

Question 6 – Any known use of filling materials on site?

• Rock from on-site moved for base of feed lot
• Slag/coalwash used for roads 5 years ago
• Dams made from natural materials
• Concrete waste from cone trucks (not building rubble in lane ways)
• Filled pool in with soil from Flinders Estate

Question 7 – Any known history of Illegal dumping?

No

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

AST Diesel tank on hardstand. Tank was previously on dirt near the old dairy

Question 9 – Was there a central chemical storage? What chemicals were kept?

None used. Minor round-up and spraying many years ago

Question 10 – Any known instances of spills or accidents?

None

Question 11 – What is the history of pesticide/herbicide application?

None

Question 12 – Were cattle dips used on site?

None

Question 13 – Cattle spraying areas? If no, where were animals treated?

Drenching of new yards behind shed

Question 14 – Any buildings that may have been demolished? Construction type?

Old house behind old dairy which was derelict in 1980. There is some evidence of
footings and building materials

Question 15 – Any use of any part of the site by other individuals or companies?

No

Question 16 – How and where was waste disposed on the site? Historically?

Tip in gully not used for 15 years

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Old and new system comprise poly pipes

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

No

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

No

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property B and D

Project Number: 48742
Date: 21 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

Lot 112 DP 851153

Lot 22 DP 809156

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Lot 112 DP 851153 – Since 1982. No prior knowledge
--

Lot 22 DP 809156 – Since 1982. No prior knowledge

Question 3 – Any present or former intensive agriculture?

None at present. Former uses unknown on both lots

Question 4 – Any present or former market gardens, orchards or nurseries?

None at present. Former uses unknown on both lots

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

No known agriculture. Formerly a dairy with horse breeding and agistment

Question 6 – Any known use of filling materials on site?

Coalwash used around water	and gateway on Lot 22 DP 809156

Question 7 – Any known history of Illegal dumping?

No

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

AST Diesel at winter paddock
44 g petrol tank at stables

Question 9 – Was there a central chemical storage? What chemicals were kept?

No chemical storage

Question 10 – Any known instances of spills or accidents?

No

Question 11 – What is the history of pesticide/herbicide application?

Some round-up used

Question 12 – Were cattle dips used on site?

Unknown

Question 13 – Cattle spraying areas? If no, where were animals treated?

Unknown

Question 14 – Any buildings that may have been demolished? Construction type?

No

Question 15 – Any use of any part of the site by other individuals or companies?

Yes – 100 acres north of creek. Wollongong Council leased to Andrew Daniels, a veterinarian

Question 16 – How and where was waste disposed on the site? Historically?

North of creek by Wollongong Council. Historically unknown

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Dams, black agriculture poly pipes. No known diesel pumps

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

No

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

Neville Robb, dam builder – 4256 2070

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property N

Project Number: 48742
Date: 21 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

248 and 268 North Macquarie Road

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since 1980. No prior knowledge

Question 3 – Any present or former intensive agriculture?

No

Question 4 – Any present or former market gardens, orchards or nurseries?

No

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Grazing, horse spelling and breeding. First 5 years property was run as a dairy

Question 6 – Any known use of filling materials on site?

Dam was constructed using natural materials. Roadways gravelled (not slag)

Question 7 – Any known history of Illegal dumping?

No

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

AST diesel 5000 L tank unbunded. Petrol in drums

Question 9 – Was there a central chemical storage? What chemicals were kept?

No

Question 10 – Any known instances of spills or accidents?

Garage burnt down and rebuilt. All materials removed by insurance company's
builders

Question 11 – What is the history of pesticide/herbicide application?

Some round-up and bromonil used on concrete by boom spray for fireweed

Question 12 – Were cattle dips used on site?

No

Question 13 – Cattle spraying areas? If no, where were animals treated?

Pour on drench in the yards

Question 14 – Any buildings that may have been demolished? Construction type?

No

Question 15 – Any use of any part of the site by other individuals or companies?

Yes – Mr Grant Billet, Illawarra Turf for 1 year. No shed or storage. Not profitable
therefore discontinued use

Question 16 – How and where was waste disposed on the site? Historically?

Prior to 1980, dump site in creek. Since that time, everything has gone to the tip or
by dumpster

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Too expensive to irrigate. Poly pipe to trough. Irrigation pipe, no AC

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

No

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

No

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property E

Project Number: 48742
Date: 28 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

379 Calderwood Road

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since 1985. From 1973 – 1985 the site was owned by a partnership between
Paul Bleasdale's mother and uncle for horse breeding

Question 3 – Any present or former intensive agriculture?

No

Question 4 – Any present or former market gardens, orchards or nurseries?

No

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

20 head of cattle agisted

Question 6 – Any known use of filling materials on site?

• Horse swimming pool
• 20 trucks from Albion Park sewer connection
• Farm dams constructed from natural materials
• 1 load of shale
• Coalwash used up to shed and under shed

Question 7 – Any known history of Illegal dumping?

No

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

1 empty AST not used since 1985

Question 9 – Was there a central chemical storage? What chemicals were kept?

None

Question 10 – Any known instances of spills or accidents?

No spills or accidents

Question 11 – What is the history of pesticide/herbicide application?

None

Question 12 – Were cattle dips used on site?

None

Question 13 – Cattle spraying areas? If no, where were animals treated?

Cattle treated off-site since 1985

Question 14 – Any buildings that may have been demolished? Construction type?

Stables of unknown construction type

Question 15 – Any use of any part of the site by other individuals or companies?

No

Question 16 – How and where was waste disposed on the site? Historically?

Household waste cleaned up by Paul Bleasdale

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

No pipes other than poly pipe

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

No

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

No

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property M

Project Number: 48742
Date: 15 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

299 North Macquarie Road

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since late 1988

Question 3 – Any present or former intensive agriculture?

No

Question 4 – Any present or former market gardens, orchards or nurseries?

No

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Cattle grazing

Question 6 – Any known use of filling materials on site?

Slag used for shed floor

Question 7 – Any known history of Illegal dumping?

2 car bodies in gully

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

Only diesel in 200 L drum

Question 9 – Was there a central chemical storage? What chemicals were kept?

No

Question 10 – Any known instances of spills or accidents?

No

Question 11 – What is the history of pesticide/herbicide application?

None known

Question 12 – Were cattle dips used on site?

None known

Question 13 – Cattle spraying areas? If no, where were animals treated?

Pour on drench at yards on North Macquarie Road

Question 14 – Any buildings that may have been demolished? Construction type?

None known

Question 15 – Any use of any part of the site by other individuals or companies?

Lexosh Pty Ltd – company owned by AIB that runs the stock

Question 16 – How and where was waste disposed on the site? Historically?

Unknown. Presently collection by Council

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Dams – no pipes or pumps

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

No

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

No

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property A

Project Number: 48742
Date: 21 Jan 2010
Interviewed by: CCK
Position:

Question 1 – Which property did you work on/own?

Lot 2 DP 2534, 503

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Approximately 40 years

Question 3 – Any present or former intensive agriculture?

No

Question 4 – Any present or former market gardens, orchards or nurseries?

No

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Dairy farming

Question 6 – Any known use of filling materials on site?

Yes – near dairy and sheds
Asphalt and roadbase over couple months 15 – 20 years ago to fill for semi-trailer
EPA inspected and approved

Question 7 – Any known history of Illegal dumping?

No

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

Diesel in storage tanks at dairy

Question 9 – Was there a central chemical storage? What chemicals were kept?

No real storage. Some blackberry and lantana spray kept on site

Question 10 – Any known instances of spills or accidents?

No

Question 11 – What is the history of pesticide/herbicide application?

Not used for approximately 30 years

Question 12 – Were cattle dips used on site?

No

Question 13 – Cattle spraying areas? If no, where were animals treated?

Sprays have never been used. Cattle vaccinated in crush area. Pour on drench in the yard

Question 14 – Any buildings that may have been demolished? Construction type?

Hay shed of corrugated iron, steel and wood frame construction blew down 20 years ago

Question 15 – Any use of any part of the site by other individuals or companies?

No

Question 16 – How and where was waste disposed on the site? Historically?

Buried in paddock behind shed. For the last 20 yeas waste has gone to the tip

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Water pumped from creek to dairy and cattle troughs

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

No

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

No

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property L

Project Number: 48742
Date: 15 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

221 North Macquarie Road, Tongarra

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since 1999

Question 3 – Any present or former intensive agriculture?

No

Question 4 – Any present or former market gardens, orchards or nurseries?

No

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

None known

Question 6 – Any known use of filling materials on site?

None known

Question 7 – Any known history of Illegal dumping?

A few loads of soil which was used for motocross jumps. Unsure if legal

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

None known. 44 g drum of diesel for tractor

Question 9 – Was there a central chemical storage? What chemicals were kept?

No

Question 10 – Any known instances of spills or accidents?

None known

Question 11 – What is the history of pesticide/herbicide application?

Have sprayed small amount on blackberry and lantana every year, as instructed by
noxious weeds authorities

Question 12 – Were cattle dips used on site?

Previously used a pour-on anti-worming drug for some cattle

Question 13 – Cattle spraying areas? If no, where were animals treated?

Pour-on used in cattle race at front of property

Question 14 – Any buildings that may have been demolished? Construction type?

None known

Question 15 – Any use of any part of the site by other individuals or companies?

Yes, horse agistment. Friend has approximately 24 sheep and 2 alpacas in one
paddock
Brother-in-law stayed in caravan on property for 18 months and has storage
container on property

Question 16 – How and where was waste disposed on the site? Historically?

Waste is collected in a rubbish tip about 200 m from back fence of house yard

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Dam and pump (petrol fire pump) which pumps dam water to storage tank near
shed and this water is used to fill troughs for horses, etc. Water comes to tanks via
an underground ag pipe from dam

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

None known

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

Scott Lindsay – no contact details

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property K

Project Number: 48742
Date: 15 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

159 North Macquarie Road, Albion Park

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

9 years

Question 3 – Any present or former intensive agriculture?

No

Question 4 – Any present or former market gardens, orchards or nurseries?

No

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

None known

Question 6 – Any known use of filling materials on site?

None known

Question 7 – Any known history of Illegal dumping?

None known

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

AST 4000 L

Question 9 – Was there a central chemical storage? What chemicals were kept?

No

Question 10 – Any known instances of spills or accidents?

None known

Question 11 – What is the history of pesticide/herbicide application?

None

Question 12 – Were cattle dips used on site?

None

Question 13 – Cattle spraying areas? If no, where were animals treated?

None

Question 14 – Any buildings that may have been demolished? Construction type?

None known

Question 15 – Any use of any part of the site by other individuals or companies?

None

Question 16 – How and where was waste disposed on the site? Historically?

None known

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Water tanks and dams

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

None known

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

None known

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property G

Project Number: 48742
Date: 15 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

Novero Pty Ltd, 317 Calderwood Road, Calderwood

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since 1996

Question 3 – Any present or former intensive agriculture?

Formerly a dairy farm. Not sure when dairying ceased

Question 4 – Any present or former market gardens, orchards or nurseries?

No

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Dairy farming and grazing

Question 6 – Any known use of filling materials on site?

None known, except for slag floor in shed

Question 7 – Any known history of Illegal dumping?

1 dump site

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

Diesel in 200 L container

Question 9 – Was there a central chemical storage? What chemicals were kept?

None known

Question 10 – Any known instances of spills or accidents?

None known

Question 11 – What is the history of pesticide/herbicide application?

None known

Question 12 – Were cattle dips used on site?

None known

Question 13 – Cattle spraying areas? If no, where were animals treated?

None known. Cattle sprayed at Boscosuro

Question 14 – Any buildings that may have been demolished? Construction type?

Old barn of mainly timber construction

Question 15 – Any use of any part of the site by other individuals or companies?

Central Fabrication – storage of steel
Lexosh Pty Ltd – cattle

Question 16 – How and where was waste disposed on the site? Historically?

None known. Presently by collection by Council

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Dams

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

None known

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

None known

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property H

Project Number: 48742
Date: 15 Jan 2010
Interviewed by: CCK
Position: Company Director/
 Property Manager

Question 1 – Which property did you work on/own?

McCracken Investments, 337 North Macquarie Road, Albion Park

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since 1981

Question 3 – Any present or former intensive agriculture?

None known

Question 4 – Any present or former market gardens, orchards or nurseries?

None known

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Crops of corn and peas, largely for personal use.
Cattle grazing

Question 6 – Any known use of filling materials on site?

Old farm dump site of barbed wire, fence posts, rusty drums, rusty water tank, truck and car parts. Waste also buried between dams

Question 7 – Any known history of Illegal dumping?

Asbestos near front house and large work shed

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

None known

Question 9 – Was there a central chemical storage? What chemicals were kept?

No central storage since 1981
Joinery – paints and solvents.
Large work shed and burnt down old dairy building

Question 10 – Any known instances of spills or accidents?

None known

Question 11 – What is the history of pesticide/herbicide application?

Since 1981 – Bromoxynil to combat fireweed
Gylphsate and brush off for blackberry control

Question 12 – Were cattle dips used on site?

None known prior to 1981. None since 1981

Question 13 – Cattle spraying areas? If no, where were animals treated?

No after 1981 – stockyards
Prior to 1981 cattle holding areas were on the 2 concrete areas now occupied by
large work shed and burnt out shed area just west of that shed

Question 14 – Any buildings that may have been demolished? Construction type?

Old dairy of timber and iron sheets construction burnt down in approximately 1995.
Old dairy of timber and iron sheets construction, feed pad and storage shed
demolished

Question 15 – Any use of any part of the site by other individuals or companies?

Peas grown by unknown outside farmer for 1 year only. Joinery operated out of shed
near road

Question 16 – How and where was waste disposed on the site? Historically?

Former farm dump site prior to 1981. All materials were buried in 1981

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

5 dams. Water pumped to where it was needed via pipes to water tanks and troughs

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

None known

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

Brian Walsh – former worker on many of the properties prior to 1975

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property J

Project Number: 48742
Date: 15 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

129 North Macquarie Road, Albion Park

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since end of 1990

Question 3 – Any present or former intensive agriculture?

Grazing

Question 4 – Any present or former market gardens, orchards or nurseries?

None known

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Cattle grazing

Question 6 – Any known use of filling materials on site?

Yes. Clean soil added to eroded land south-east side of dam on the south-west of the property as marked on Delfin map of the property

Question 7 – Any known history of Illegal dumping?

None known

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

None known

Question 9 – Was there a central chemical storage? What chemicals were kept?

None known

Question 10 – Any known instances of spills or accidents?

None known

Question 11 – What is the history of pesticide/herbicide application?

None known

Question 12 – Were cattle dips used on site?

None known

Question 13 – Cattle spraying areas? If no, where were animals treated?

The cattle were treated in the cattle yard by the vet

Question 14 – Any buildings that may have been demolished? Construction type?

None known

Question 15 – Any use of any part of the site by other individuals or companies?

None known

Question 16 – How and where was waste disposed on the site? Historically?

Skip bins by waste removal companies eg: Cleanaway, J J Richards and now SITA

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Dams

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

None known

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

Dr Ledner – previous owner

Standard Interview Sheet

Client: Delfin Lend Lease Limited
Project: Contamination Assessment
Location: Calderwood
Interviewee: Owner of Property I

Project Number: 48742
Date: 15 Jan 2010
Interviewed by: CCK
Position: Owner

Question 1 – Which property did you work on/own?

Parkview

Question 2 – What period were you working at the subject site? What period do you have knowledge of farm operations?

Since approximately 1993. Dugdens

Question 3 – Any present or former intensive agriculture?

None known

Question 4 – Any present or former market gardens, orchards or nurseries?

None known

Question 5 – What type of agriculture has been undertaken on site? Herds? Crops?

Grazing and dairying until 2002. Leased for grazing to various people

Question 6 – Any known use of filling materials on site?

None known

Question 7 – Any known history of Illegal dumping?

None known. Some dumping on roadway which was intermittently cleaned by Council

Question 8 – Was there any storage of fuels on the site? USTs? ASTs?

Fuel in locked up shed in small tank for tractor. No known spills

Question 9 – Was there a central chemical storage? What chemicals were kept?

None known. Round-up

Question 10 – Any known instances of spills or accidents?

None known

Question 11 – What is the history of pesticide/herbicide application?

Round-up used around buildings around the yard

Question 12 – Were cattle dips used on site?

None known

Question 13 – Cattle spraying areas? If no, where were animals treated?

Cattle sprayed in yards

Question 14 – Any buildings that may have been demolished? Construction type?

One shed of timber and steel construction blown over around 1994

Question 15 – Any use of any part of the site by other individuals or companies?

Leased to Finch since 2004

Question 16 – How and where was waste disposed on the site? Historically?

None known

Question 17 – What water management practices are undertaken on site? (Dams, pipelines, diesel pumps?)

Electric pump from Macquarie Rivulet

Question 18 – In your opinion is there any other activities that may contribute to further potential for contamination?

None known

Question 19 – Do you know any other individuals who may have knowledge of the site? Contact details?

None known