

16 September 2008

#### Certificate

The GROUNDWATER LEVELS – PROPOSED SUBDIVISION DEVELOPMENT HEARNS LAKE, SANDY BEACH, CH1132-1AD Report, dated 26 July 2004, has been reviewed and it contains all available current information that is relevant to the environmental assessment of that aspect of the Concept Plan Approval Application to which the Report relates.

The information contained in this Report is neither false nor misleading.

I certify that I have reviewed the contents of the GROUNDWATER LEVELS CH1132-1AD, 26 July 2004, and that it is true in all material particulars and does not by presentation or omission of information, materially mislead.

For and on behalf of Coffey Geotechnics Pty Ltd

Leben Balland

**Andrew Ballard** 

CH1132-1AD ELC 26 July 2004

LOCALPLAN PTY LTD

16 Mountview Avenue

GWYNEEVILLE NSW 2500

Attention: Mr David Winterbottom

Dear Sir,

RE: GROUNDWATER LEVELS

PROPOSED SUBDIVISION DEVELOPMENT AT HEARNS LAKE, SANDY BEACH

As requested by Mr David Winterbottom of Localplan Pty Ltd, Coffey Geosciences Pty Ltd (Coffey) has completed an assessment of groundwater levels for the above development.

The assessment comprised installation of three dedicated data loggers in three water monitoring wells, and subsequent collection of recorded data over a six month period.

The data loggers were installed by a Coffey Scientist on the 19 December 2003. Water level data was recorded every hour, each day, from 19 December 2003 to 27 May 2004. The data loggers were removed from the wells on the 27 May 2004 and the recorded data was downloaded. Following download of data, the loggers were re-started and reinstalled in to the wells. The downloaded data has been calibrated and plots of water level variations over the time period have been constructed. These plots are attached.

Observation of the data indicates that the groundwater is predominately within 1m of the ground surface. During February and March 2004 all three wells recorded water levels about 0.1m above ground surface. Since then the water levels have slowly reduced to between 0.3 and 0.6m below ground surface.

We draw your attention to the attached sheet entitled "Important Information about Your Coffey Report" which should be read in conjunction with this letter.

If you have any questions regarding this matter, please do not hesitate to contact David Barker or the undersigned.

For and on behalf of

**COFFEY GEOSCIENCES PTY LTD** 

**GREG HACKNEY** 

Manager, Northern NSW

601 Coramba Road Coffs Harbour NSW 2450 Australia PO Box 704 Coffs Harbour NSW 2450 Australia Telephone +61 2 6651 3213 Facsimile +61 2 6651 5194

Email coffs@coffey.com.au

### ATTACHMENTS:

Important Information about your Coffey Report Water level graphs

**Distribution:** Original held by Coffey Geosciences Pty Ltd

1 Copy LOCALPLAN PTY LTD

## Information

Important information about your **Coffey** Report

As a client of Coffey you should know that site subsurface conditions cause more construction problems than any other factor. These notes have been prepared by Coffey to help you interpret and understand the limitations of your report.

### Your report is based on project specific criteria

Your report has been developed on the basis of your unique project specific requirements as understood by Coffey and applies only to the site investigated. Project criteria typically include the general nature of the project; its size and configuration; the location of any structures on the site; other site improvements; the presence of underground utilities; and the additional risk imposed by scope-of-service limitations imposed by the client. Your report should not be used if there are any changes to the project without first asking Coffey to assess how factors that changed subsequent to the date of the report affect the report's recommendations. Coffey cannot accept responsibility for problems that may occur due to changed factors if they are not consulted.

### Subsurface conditions can change

Subsurface conditions are created by natural processes and the activity of man. For example, water levels can vary with time, fill may be placed on a site and pollutants may migrate with time. Because a report is based on conditions which existed at the time of the subsurface exploration, decisions should not be based on a report whose adequacy may have been affected by time. Consult Coffey to be advised how time may have impacted on the project.

### Interpretation of factual data

Site assessment identifies actual subsurface conditions only at those points where samples are taken and when they are taken. Data derived from literature and external data source review, sampling and subsequent laboratory testing are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact on the proposed development and recommended actions. Actual conditions may differ from those inferred to exist, because no professional, no matter how qualified, can reveal what is hidden by

earth, rock and time. The actual interface between materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions. For this reason, owners should retain the services of Coffey through the development stage, to identify variances, conduct additional tests if required, and recommend solutions to problems encountered on site.

### Your report will only give preliminary recommendations

Your report is based on the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until implementation has commenced and therefore your report recommendations can only be regarded as preliminary. Only Coffey, who prepared the report, is fully familiar with the background information needed to assess whether or not the report's recommendations are valid and whether or not changes should be considered as the project develops. If another party undertakes the implementation of the recommendations of this report there is a risk that the report will be misinterpreted and Coffey cannot be held responsible for such misinterpretation.

### Your report is prepared for specific purposes and persons

To avoid misuse of the information contained in your report it is recommended that you confer with Coffey before passing your report on to another party who may not be familiar with the background and the purpose of the report. Your report should not be applied to any project other than that originally specified at the time the report was issued.





### Interpretation by other design professionals

Costly problems can occur when other design professionals develop their plans based on misinterpretations of a report. To help avoid misinterpretations, retain Coffey to work with other project design professionals who are affected by the report. Have Coffey explain the report implications to design professionals affected by them and then review plans and specifications produced to see how they have incorporated the report findings.

### Data should not be separated from the report\*

The report as a whole presents the findings of the site assessment and the report should not be copied in part or altered in any way.

Logs, figures, drawings etc. are customarily included in our reports and are developed by scientists, engineers or geologists based on their interpretation of field logs (assembled by field personnel) and laboratory evaluation of field samples. These logs etc. should not under any circumstances be redrawn for inclusion in other documents or separated from the report in any way.

#### Geoenvironmental concerns are not at issue

Your report is not likely to relate any findings, conclusions, or recommendations about the potential for hazardous materials existing at the site unless specifically required to do so by the client. Specialist equipment, techniques, and personnel are used to perform a geoenvironmental assessment. Contamination can create major health, safety and environmental risks. If you have no information about the potential for your site to be contaminated or create an environmental hazard, you are advised to contact. Coffey for information relating to geoenvironmental issues.

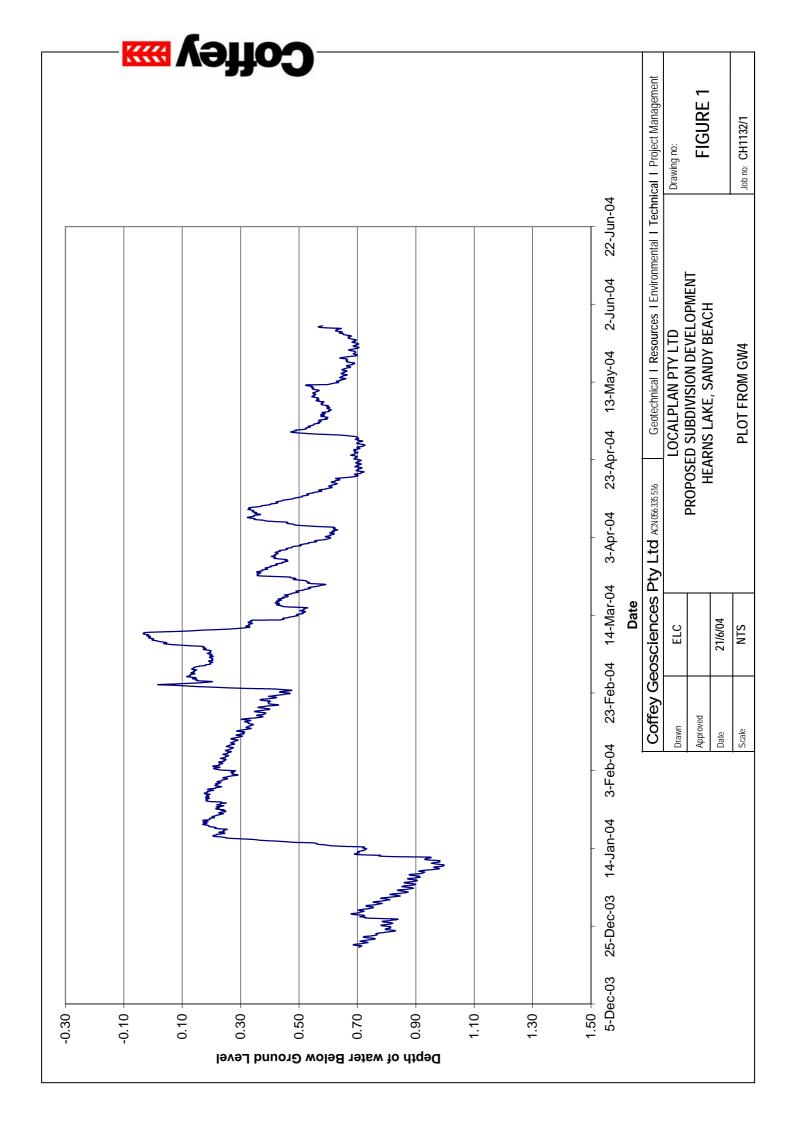
### Rely on Coffey for additional assistance

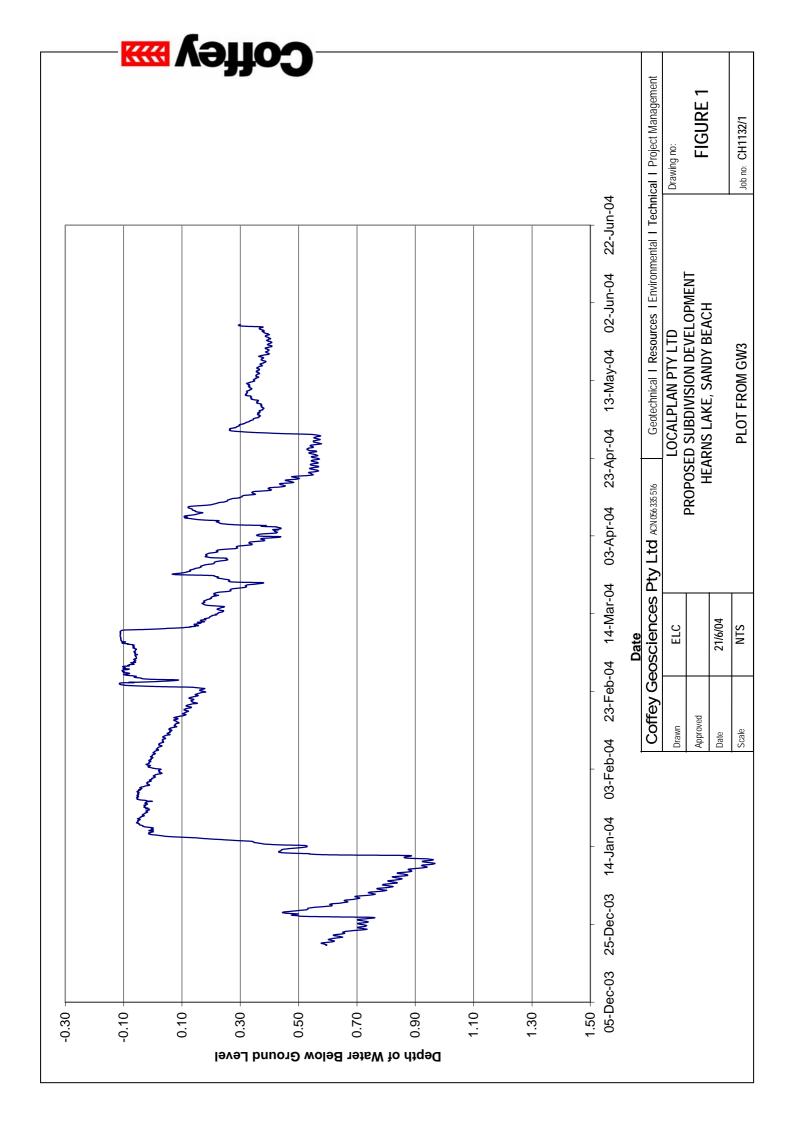
Coffey is familiar with a variety of techniques and approaches that can be used to help reduce risks for all parties to a project, from design to construction. It is common that not all approaches will be necessarily dealt with in your site assessment report due to concepts proposed at that time. As the project progresses through design toward construction, speak with Coffey to develop alternative approaches to problems that may be of genuine benefit both in time and cost.

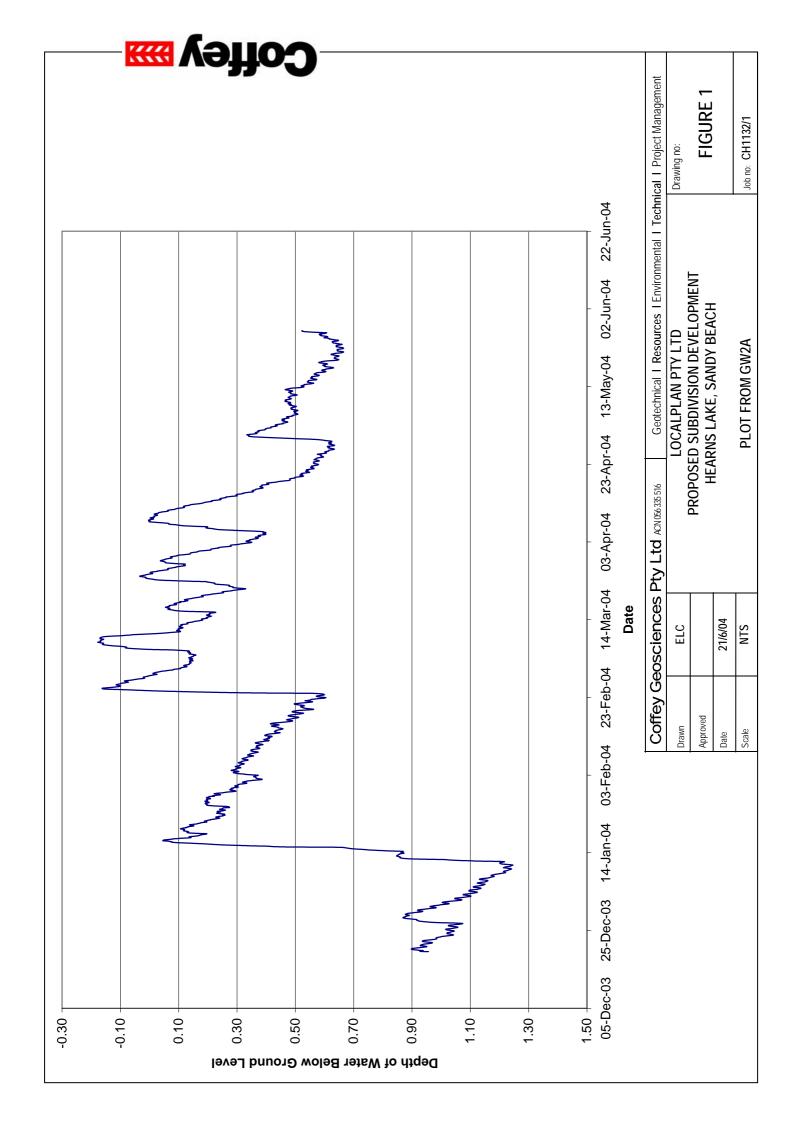
### Responsibility

Reporting relies on interpretation of factual information based on judgement and opinion and has a level of uncertainty attached to it, which is far less exact than the design disciplines. This has often resulted in claims being lodged against consultants, which are unfounded. To help prevent this problem, a number of clauses have been developed for use in reports and other contracts. documents. Responsibility clauses do not transfer appropriate liabilities from Coffey to other parties but are included to identify where Coffey's responsibilities begin and end. Their use is intended to help all parties involved to recognise their individual responsibilities. Read all documents from Coffey closely and do not hesitate to ask any questions you may have.

\* For further information on this aspect reference should be made to "Guidelines for the Provision of Geotechnical Information in Construction Contracts" published by the Institution of Engineers Australia, National Headquarters, Canberra, 1987.









16 September 2008

#### Certificate

The GROUNDWATER LEVELS – PROPOSED SUBDIVISION DEVELOPMENT HEARNS LAKE, SANDY BEACH, CH1132-1AE Report, dated 26 August 2004, has been reviewed and it contains all available current information that is relevant to the environmental assessment of that aspect of the Concept Plan Approval Application to which the Report relates.

The information contained in this Report is neither false nor misleading.

I certify that I have reviewed the contents of the GROUNDWATER LEVELS CH1132-1AE, 26 August 2004, and that it is true in all material particulars and does not by presentation or omission of information, materially mislead.

For and on behalf of Coffey Geotechnics Pty Ltd

when Balland

**Andrew Ballard** 

CH1132-1AE ELC 26 August 2004

BLUEGRASS NOMINEES 33 Windsor Crescent BROWNSVILLE NSW 2530

Attention:

Mr John Oliver

Dear Sir,

RE: GROUNDWATER LEVELS. PROPOSED SUBDIVISION DEVELOPMENT AT HEARNS LAKE, SANDY BEACH

As requested by Mr John Oliver of Bluegrass Nominees, Coffey Geosciences Pty Ltd (Coffey) has carried out a second download of piezometric level data for the above site.

The information comprises recorded data over a period of three months. Water level data has been recorded every hour, each day from 18 June 2004 to 13 August 2004. The data loggers were removed from the wells on the 13 August 2004 and the recorded data downloaded. Following the download, the loggers were re-started and reinstalled in the wells. The downloaded data has been calibrated and plots of water level variations over the time period have been constructed. Presented on the attached sheets are plots of groundwater level data for three sites GW2, GW3 and GW4.

Observation of the data indicates that the groundwater is predominately within 1m of the ground surface. The highest water level was 0.36m below ground level on the 27 July 2004 in GW3, and the lowest water level was 1.04m below ground level on the 9 July 2004 in GW2. Water levels rose rapidly in all three wells on the 13 and 27 July 2004, and then dropped slowly after these rises.

We draw your attention to the attached sheet entitled "Important Information about Your Coffey Report" which should be read in conjunction with this letter.

If you have any questions regarding this matter, please do not hesitate to contact David Barker or the undersigned.

For and on behalf of

COFFEY GEOSCIENCES PTY LTD

**GREG HACKNEY** 

Manager, Northern NSW

ATTACHMENTS: Important Information About Your Coffey Report

Water level graphs

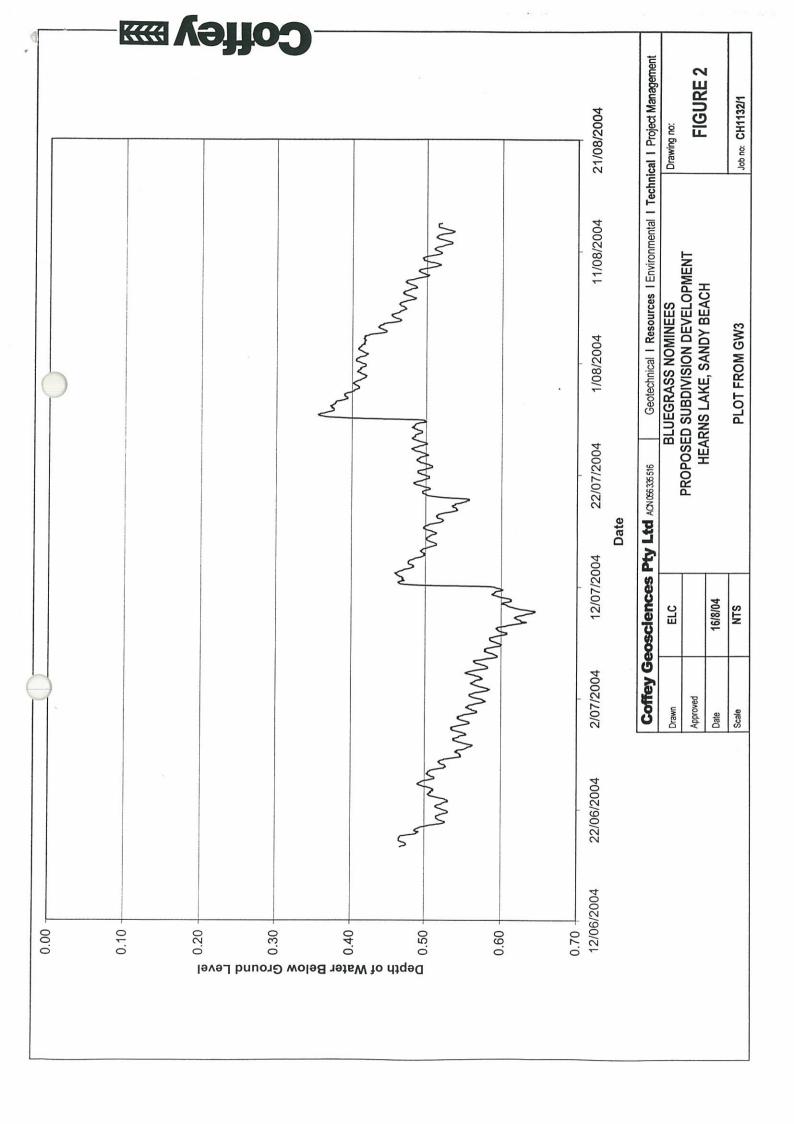
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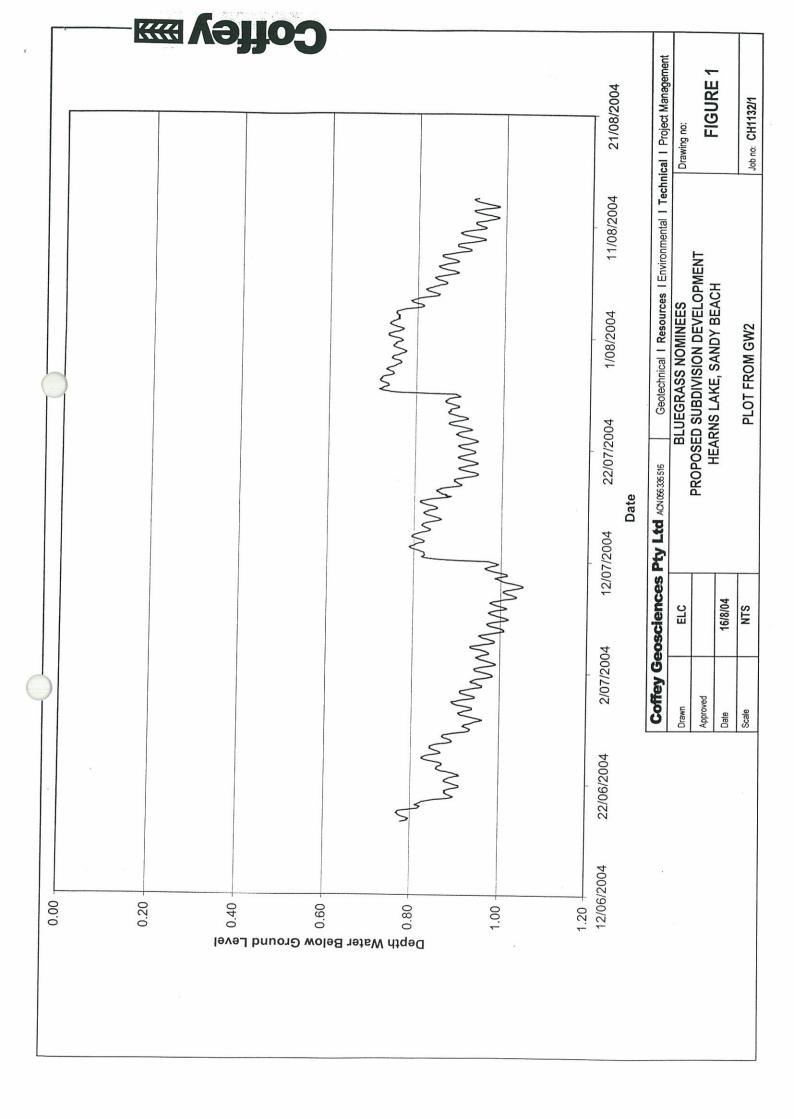
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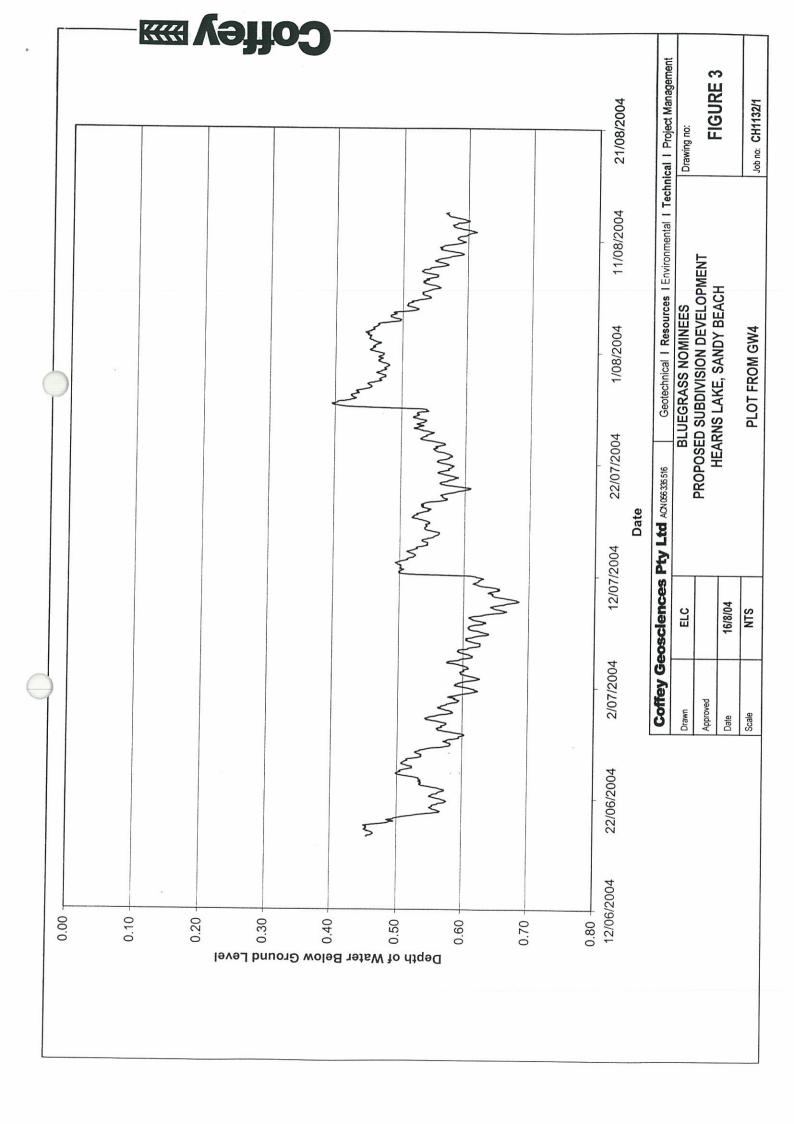
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**BLUEGRASS NOMINEES** 

Coffey was







# Information

Important information about your Coffey Report

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### Your report is based on project specific criteria

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### Subsurface conditions can change

Subsurface conditions are created by natural processes and the activity of man. For example, water levels can vary with time, fill may be placed on a site and pollutants may migrate with time. Because a report is based on conditions which existed at the time of the subsurface exploration, decisions should not be based on a report whose adequacy may have been affected by time. Consult Coffey to be advised how time may have impacted on the project.

### Interpretation of factual data

Site assessment identifies actual subsurface conditions only at those points where samples are taken and when they are taken. Data derived from literature and external data source review, sampling and subsequent laboratory testing are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact on the proposed development and recommended actions. Actual conditions may differ from those inferred to exist, because no professional, no matter how qualified, can reveal what is hidden by

earth, rock and time. The actual interface between materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions. For this reason, owners should retain the services of Coffey through the development stage, to identify variances, conduct additional tests if required, and recommend solutions to problems encountered on site.

### Your report will only give preliminary recommendations

Your report is based on the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until implementation has commenced and therefore your report recommendations can only be regarded as preliminary. Only Coffey, who prepared the report, is fully familiar with the background information needed to assess whether or not the report's recommendations are valid and whether or not changes should be considered as the project develops. If another party undertakes the implementation of the recommendations of this report there is a risk that the report will be misinterpreted and Coffey cannot be held responsible for such misinterpretation.

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To avoid misuse of the information contained in your report it is recommended that you confer with Coffey before passing your report on to another party who may not be familiar with the background and the purpose of the report. Your report should not be applied to any project other than that originally specified at the time the report was issued.





16 September 2008

#### Certificate

The GROUNDWATER LEVELS – PROPOSED SUBDIVISION DEVELOPMENT HEARNS LAKE, SANDY BEACH, CH1132-1AF Report, dated 9 December 2004, has been reviewed and it contains all available current information that is relevant to the environmental assessment of that aspect of the Concept Plan Approval Application to which the Report relates.

The information contained in this Report is neither false nor misleading.

I certify that I have reviewed the contents of the GROUNDWATER LEVELS CH1132-1AF, 9 December 2004, and that it is true in all material particulars and does not by presentation or omission of information, materially mislead.

For and on behalf of Coffey Geotechnics Pty Ltd

when Balland

**Andrew Ballard** 

CH1132-1AF ELC 9 December 2004

BLUEGRASS NOMINEES
33 Windsor Crescent
BROWNSVILLE NSW 2530

Attention:

Mr John Oliver

Dear Sir,

RE: GROUNDWATER LEVELS. PROPOSED SUBDIVISION DEVELOPMENT AT HEARNS LAKE, SANDY BEACH

As requested by Mr John Oliver of Bluegrass Nominees, Coffey Geosciences Pty Ltd (Coffey) has carried out a third download of piezometric level data for the above site.

The information comprises recorded data over a period of three months. Water level data has been recorded every hour, each day from 13 August 2004 to 28 October 2004 for GW3, and every ten minutes from 13 August 2004 to 9 October 2004 for GW2. The data loggers were removed from the wells on the 18 November 2004 and the recorded data downloaded. During the site visit it was discovered that one of the loggers (GW4) had been submerged, which has damaged the logger sensor which is unable to be repaired. The remaining loggers had flat batteries and were taken back to office. A replacement logger was obtained for GW4 and new batteries placed in the remaining loggers and all loggers were reinstalled on the 23 November 2004.

The downloaded data has been calibrated and plots of water level variations over the time period have been constructed. Presented on the attached sheets are plots of groundwater level data for two sites GW2 and GW3.

Observation of the data indicates that the groundwater is predominately within 1m of the ground surface. The highest water level was 0.02m below ground level on the 19 October 2004 in GW3, and the lowest water level was 1.1m below ground level on the 1 September 2004 in GW2. The water level rose and dropped very rapidly on the 19 October 2004, and could be associated with a large storm event in the region. Both wells recorded rapid water level rises on the 1 September 2004, 9 September 2004 and 1 October 2004, water levels dropped slowly after each of these rises.

We draw your attention to the attached sheet entitled "Important Information about Your Coffey Report" which should be read in conjunction with this letter.

If you have any questions regarding this matter, please do not hesitate to contact the undersigned.

For and on behalf of

COFFEY GEOSCIENCES PTY LTD

DA

DAVID BARKER
SENIOR GEOTECHNICAL ENGINEER

601 Coramba Road Coffs
Harbour
NSW 2450 Australia
PO Box 704 Coffs Harbour
NSW 2450 Australia
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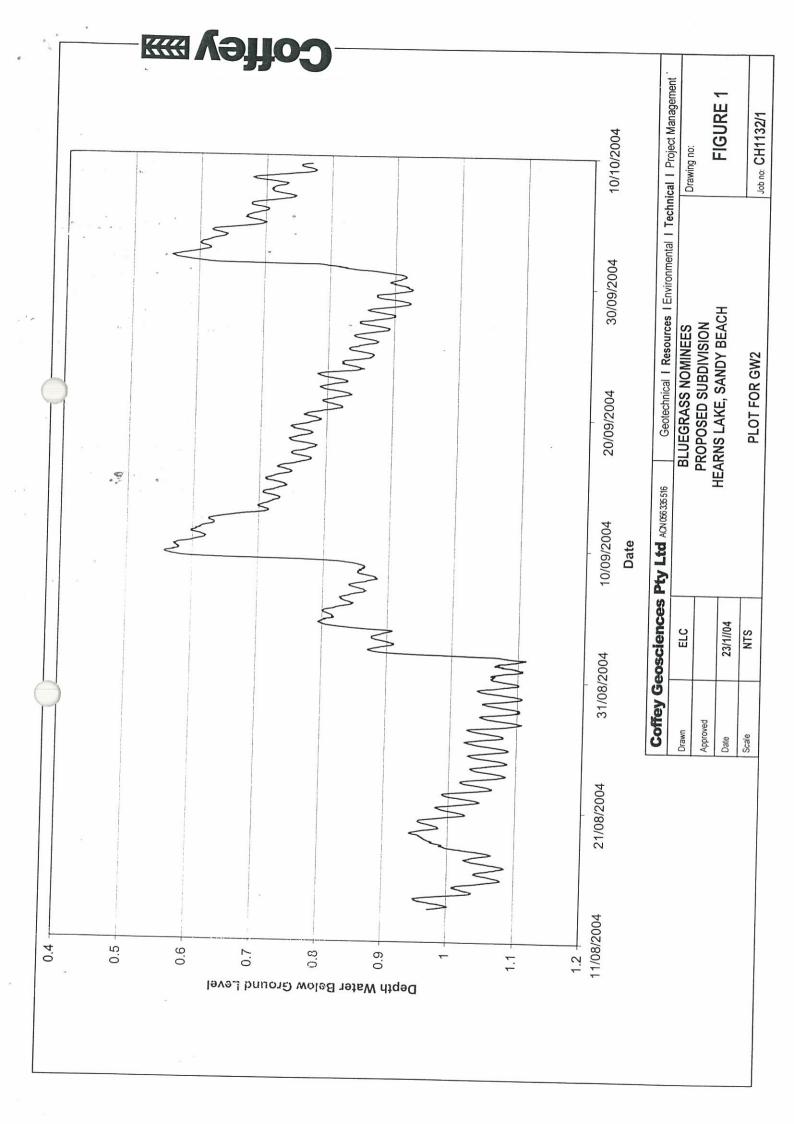


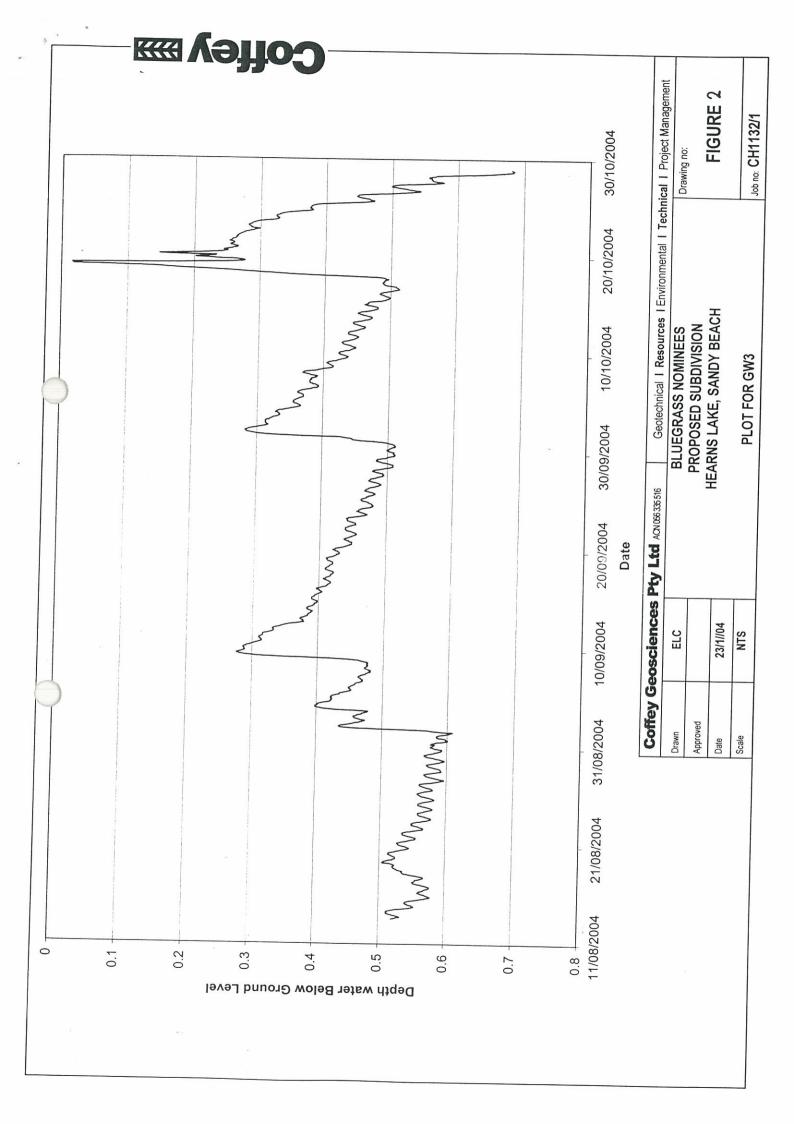
ATTACHMENTS: Important Information About Your Coffey Report

Water level graphs

Distribution: Original held by Coffey Geosciences Pty Ltd

1 Copy BLUEGRASS NOMINEES







16 September 2008

#### Certificate

The GROUNDWATER LEVELS – PROPOSED SUBDIVISION DEVELOPMENT HEARNS LAKE, SANDY BEACH, CH1132-1AG Report, dated 3 March 2005, has been reviewed and it contains all available current information that is relevant to the environmental assessment of that aspect of the Concept Plan Approval Application to which the Report relates.

The information contained in this Report is neither false nor misleading.

I certify that I have reviewed the contents of the GROUNDWATER LEVELS CH1132-1AG, 3 March 2005, and that it is true in all material particulars and does not by presentation or omission of information, materially mislead.

For and on behalf of Coffey Geotechnics Pty Ltd

when Balland

**Andrew Ballard** 

CH1132-1AG ELC 3 March 2005 BLUEGRASS NOMINEES 33 Windsor Crescent BROWNSVILLE NSW 2530

Attention: Mr John Oliver

Dear Sir.

RE: GROUNDWATER LEVELS. PROPOSED SUBDIVISION DEVELOPMENT AT HEARNS LAKE, SANDY BEACH

As requested by Mr John Oliver of Bluegrass Nominees, Coffey Geosciences Pty Ltd (Coffey) has carried out a fourth and final download of piezometric level data for the above site.

The information comprises recorded data over a period of two months. Water level data has been recorded every hour, each day from 24 November 2004 to 25 January 2005 for GW2 and GW3, and every ten minutes from 24 November 2004 to 25 January 2005 for GW4. The data loggers were removed from the wells on the 25 January 2005 and the recorded data downloaded. During the site visit it was discovered that two of the loggers (GW2 and GW4) had been submerged, which stopped the loggers recording on the 19 January 2005.

Presented on the attached sheets are plots of groundwater level data over 12 months for three sites GW2, GW3 and GW4. Presented below each data set is a plot of rainfall versus time for Coffs Harbour.

Observation of the data indicates that the groundwater is predominately within 1m of the ground surface. The highest water level was 0.16m above ground level on the 9 March 2004 in GW2, and the lowest water level was 1.23m below ground level on the 10 January 2004 in GW2. The boreholes show similar trends in water rise and fall over the 12 months, with GW2 showing the greatest variations in water level.

We draw your attention to the attached sheet entitled "Important Information about Your Coffey Report" which should be read in conjunction with this letter. If you have any questions regarding this matter, please do not hesitate to contact the undersigned.

For and on behalf of

**COFFEY GEOSCIENCES PTY LTD** 

DAVID BARKER

ATTACHMENTS: Important Information About Your Coffey Report

Water level graphs

**DISTRIBUTION:** Original held by Coffey Geosciences Pty Ltd

1 Copy Bluegrass Nominees

601 Coramba Road Coffs Harbour NSW 2450 Australia PO Box 704 Coffs Harbour NSW 2450 Australia Telephone +61 2 6651 3213 Facsimile +61 2 6651 5194

Email coffs@coffey.com.au

Coffee

## Information

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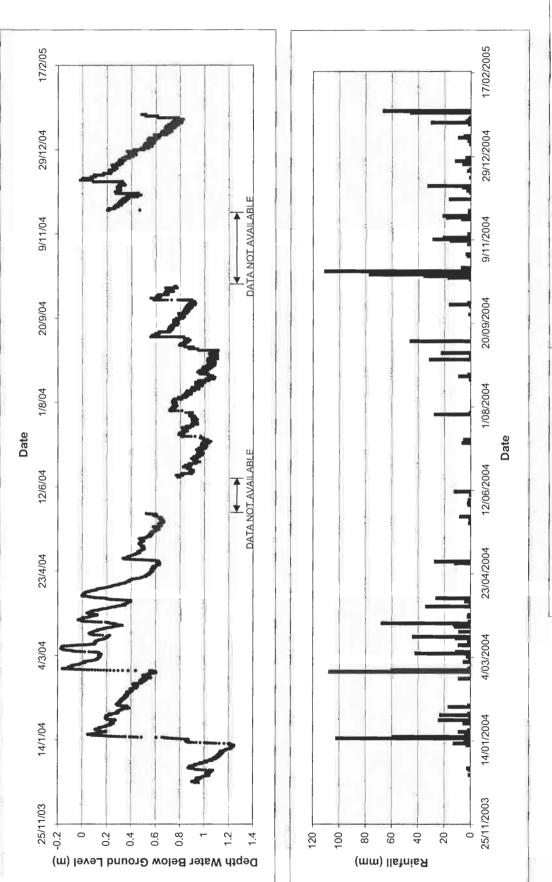
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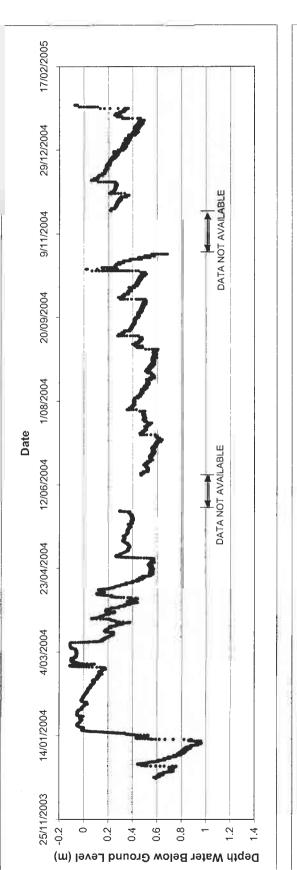
\* For further information on this aspect reference should be made to "Guidelines for the Provision of Geotechnical Information in Construction Contracts" published by the Institution of Engineers Australia, National Headquarters, Canberra, 1987. Coffey IXX

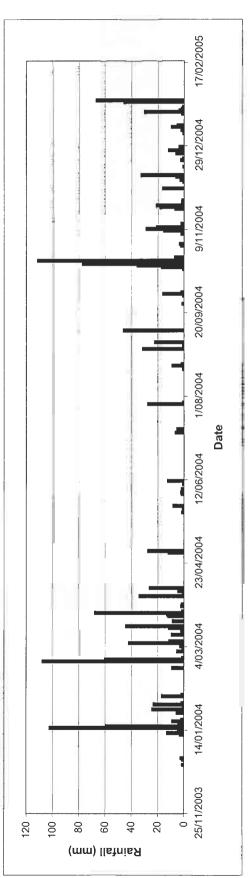


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			HEARNS LAKE		GW2
Applished	4/02/2005		SANDY BEACH		
Date	NTS		PLOT FOR GW2		Job no: CH1132/1

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## Coffey ESS





Coffey Ge	ey Geosciences Pty Ltd ACNOSSESSES	Pty Ltd	ACN 056 335 516	Geotechnical I Resources   Environmental   Technical   Project Managemen	Environmental	Technical	Project Managem
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				HEARNS LAKE			GW3
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Date Scale	NTS	,		PLOT FOR GW2			Job no: CH1132/1

Coffey ESS

Date

