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1) WHAT THIS WORKSHOP IS ABOUT - WORKSHOP OVERVIEW

This workshop has been developed to provide technical and design staff involved in the design or checking of designs for storm water drainage systems and control structures, with practical “hands on” skills in the design of stormwater drainage systems, assisted by the use of computer software packages.

2) WORKSHOP OBJECTIVES

- a) To provide participants with a guide to designing stormwater systems from the information contained within “Australian Rainfall and Runoff” Volumes 1 and 2 utilising the drains software package.
- b) To improve the level of understanding of the basic design criterion for stormwater reticulation systems and drainage control structures with the aid of computer software packages.
- c) To enable participants to gain a basic understanding of the drains software package and how it improves efficiency of onsite stormwater drainage design.

3) WORKSHOP OUTCOMES

Upon completion of this seminar, participants will possess an basic understanding of the processes of designing onsite stormwater drainage systems assisted by the use of the drains software package.

The areas covered shall include the following:

- a) Design criteria and methodology for stormwater drainage systems.
- b) What to look for when checking designs carried out by others.

INSIDE THE SITE - PRACTICAL APPLICATION OF THE DRAINS SOFTWARE PACKAGE ON SMALLER PROJECTS

- c) A knowledge of the current resource documents and relevant sections used in day to day design tasks.
- d) Applying and using the drains program with specific reference to smaller projects (less than or equal to 5000 sq.m)
- e) Utilising the DRAINS software program for onsite detention modelling and calculations.

Introductory Example An Example of the DRAINS software program in Operation

- f) (Small commercial project at 46 Hill Street, Cabramatta - Authority - Fairfield City Council)

4) SHORT REFRESHER ON USING THE DRAINS SOFTWARE PACKAGE

- a) Why do I need it Overview of the computer software as it applies to small project design.
- b) What can it do How can drains assist me in small project design.
- c) What do I need Computer System Requirements.
- d) How do I use it Using the *DRAINS Interface* - the Windows Tools and Menus.
- e) Getting it to work Inputting the Information - Drawing Tools, Dialog Boxes .
- f) Getting out of trouble Using the help system and where to get assistance.
- g) Getting it out Finalising the design & getting information out.

5) SELECTED EXAMPLES TO BE WORKED THROUGH

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| a) Barden Ridge Residential Aged Care Facility | 60 Bed Aged Care facility |
| | Authority - Sutherland Council |
| b) Saltash Street, Yagoona | 19 Unit Multi Unit Public Housing Development |
| | Authority - Bankstown Council. |
| c) Colechin Street, Yagoona | 14 Unit Multi Unit Public Housing Development |
| | Authority - Bankstown Council. |
| d) Marist College, Catholic School, Pagewood | Catholic School Development |
| | Authority - Randwick Council. |
| e) St Rafqua's, Austral | Catholic School Development |
| | Authority - Liverpool Council. |

COURSE PROGRAM

8.30 am	Registration & Meet and Greet Session
8.45am	Workshop Introduction
9.00 am	SHORT Refresher on USING the DRAINS software package
10.00 am	Practical Application of the DRAINS software package - Barden Ridge RACF
11.00 am	Practical Application of the DRAINS software package - Saltash Street, Yagoona
12.00 pm	Lunch
1.00 pm	Practical Application of the DRAINS software package - Colechin Street, Yagoona
2.00 pm	Practical Application of the DRAINS software package - Marist College, Pagewood
3.00 pm	Practical Application of the DRAINS software package - St Rafqua's, Austral
4.30 pm	Forum and Q&A Session "How does software improve the efficiency & profitability of the design process"
5.00pm	Close

ABOUT THE PRESENTER

Mr. Stuart Brown joined the Australian Gas Light company in 1990 as an apprentice plumber, drainer and gasfitter, and graduated from Bankstown TAFE in 1995.

After successfully undertaking further studies in the Associate Diploma of Engineering (Plumbing Services), Diploma of Plumbing, Bachelor of Engineering (Civil) Hons, he has practised as a civil engineer on many diversified projects throughout Australia and continues to serve his satisfied clients today.

One of his many interests is the use of computer technology in streamlining and enhancing the design process and it is inquiries and assistance provided to other civil engineers that has resulted in the presentation of this workshop.

Stuart is a member of the Institute of Engineers, Australia and several other associated professional organisations.