

THE SOILTESTERS

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

13 DEC 2013

MEDQ

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EFFLUENT DISPOSAL SITE EVALUATION REPORT

Job Number – 2K130952

Client – Intrax Consulting Engineers Pty Ltd

Site Address – 81 – 127 O'Dempsey Road, South Ripley

Local Authority: Lockyer Valley Regional Council

Proposal: A new 3 bedroom dwelling is to be constructed on this lot, with the waste water treatment to be by an All Waste Septic Tank with Baffle (min. 3500L). Waste water disposal is to be by conventional beds.

Site Description and Site Factors – This site is a vacant lot. The block has fair drainage and gentle to moderate slopes.

Soil Assessment:

0000 – 1200 LIGHT CLAY (CAT 5), Massive Structure, Br, Or-Br, Moist

Permeability (from on-site K Sat test data) = **0.06m - 0.12m/day** ...Soil category
5 ("Light Clay")

Design Loading Rate: = 8mm/Day (AS1547-2012)

Land Application Method:

Effluent disposal will be by conventional beds with grass cover

Land Application Area / Bed Dimensions to be installed:

Total length/width of beds = 2 Beds - 15m Long X 3m Wide

Type of Effluent Disposal Facility:

All Waste Septic Tank with Baffle (Min. 3000L)

Calculations:

4.5 Persons (3 Bedrooms) @ 150L/Day/Person = 900L/Day (q) (Adopted DLR = 8mm/Day)

Length of Beds = $q / DLR / (W) \text{ Width}$
= 29m Long X 3m Wide
= 2 Beds – 15m Long x 3m Wide

Scope of work: The SoilTesters have been commissioned to design an appropriate effluent disposal system for this property and for the nominated use. Installation and ongoing maintenance of the system is the responsibility of the others.

NOTE: Standard water reduction fixtures to be installed

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Minimum Separation Distances from Effluent (Table 1.0)

VERTICAL SEPARATION		
	PRIMARY EFFLUENT	SECONDARY EFFLUENT
ABOVE WATER TABLE OR BEDROCK	1.2m	0.6m
HORIZONTAL SEPARATION		
	PRIMARY EFFLUENT	SECONDARY EFFLUENT
WATER COURSE, DAM, BORE OR WELL	50m	30m
PROPERTY BOUNDARY LOWER THAN DISPOSAL AREA	4m	4m
PROPERTY BOUNDARY HIGHER THAN DISPOSAL AREA	2m	2m
DWELLING, CHILDRENS PLAY AREA	4m	4m
SWIMMING POOL	6m	6m
INGROUND POTABLE WATER TANK	15m	8m

Pipe Lines

1. HYDRAULIC DESIGN OF PIPELINES AND PUMPSET TO BE BY THE SUPPLIER/MANUFACTURER
2. PIPELINE SIZES:
 - MANIFOLDS NOT LESS THAN 40mm
 - LATERALS NOT LESS THAN 25mm WITH MIN. 5mm HOLES AT 1m MIN. CENTRES
3. PIPEWORK SHALL BE RATED TO WITHSTAND MIN. 150% OF THE SHUT-OFF HEAD OF THE IRRIGATION PUMP.

Site Preparation

SEE CROSS SECTION (REFER DRAWING 2 OF 2)

Installation

1. IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE THAT ALL COMPONENTS (ESPECIALLY FITTINGS IMPORTED SOILS, GRADIENTS AND MOUNDS) COMPLY WITH THESE GUIDELINES UPON COMMISSIONING THE SYSTEM.
2. THE SUPPLIER/INSTALLER SHALL ENSURE ALL IRRIGATION PIPEWORK AND FITTINGS COMPLY WITH AS 1477 OR AS 2698.
3. THE DISTRIBUTION LINES SHALL HAVE A MINIMUM DEPTH OF COVER OF 100mm.
4. THERE SHALL BE NO CROSS-CONNECTION BETWEEN ANY PIPEWORK AND POTABLE WATER SUPPLY.
5. WHERE LATERALS ARE USED THEY ARE TO BE PLACED ALONG THE CONTOUR (USE OF LEVEL RECOMMENDED TO ENSURE THIS IS OBTAINED).
6. ALL BURIED PIPEWORK IS TO BE IDENTIFIED WITH UNDERGROUND MARKING TAPE PLACED ABOVE THE PIPEWORK.
7. SCOUR VALVES IN SURFACE BOXES AND SCOUR POINT SUBSURFACE TRENCHES SHALL BE PROVIDED TO ALLOW PERIODIC CLEANING OF THE SYSTEM. POSITIONS TO BE MARKED.

Maintenance

1. REGULAR ROUTINE MAINTAINANCE CHECKS OF THE DISPOSAL AREA SHALL BE CARRIED OUT BY THE OWNER OR HIS/HER REPRESENTATIVE.
2. FITTINGS SHALL BE MAINTAINED IN CORRECT WORKING ORDER TO ENSURE PROPER PERFORMANCE.

Planting

1. GRASS COVER

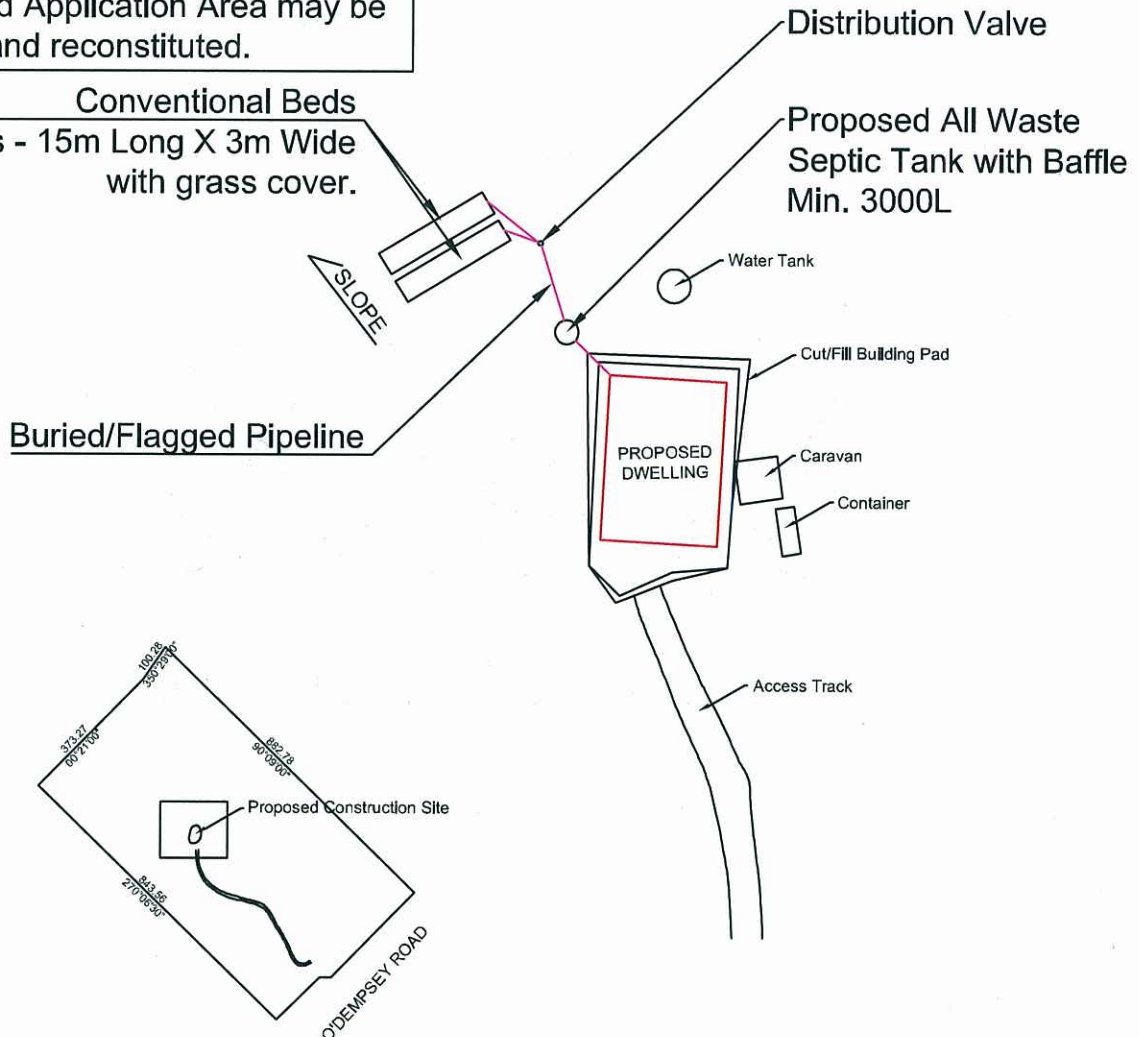


Steven Hackworth
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RESERVE AREA: Reserve Land Application Area may be located elsewhere on the property, provided the required setback distances are achieved. Alternatively, if required, the Land Application Area may be dug up and reconstituted.

REFER PAGE 2 FOR MINIMUM SEPARATIONS FROM RESIDENCE AND PROPERTY BOUNDARIES

Conventional Beds
2 Beds - 15m Long X 3m Wide
with grass cover.



Responsibilities of Installer

1. Installer shall only use council approved plans.
2. Plans are diagrammatic...it is the installers responsibility to ensure efficient/even distribution of effluent... with no leakage from application area.



The SoilTesters

EFFLUENT DISPOSAL PLAN

81 - 127 O'Dempsey Road, South Ripley

Hackworth and Associates Pty Ltd

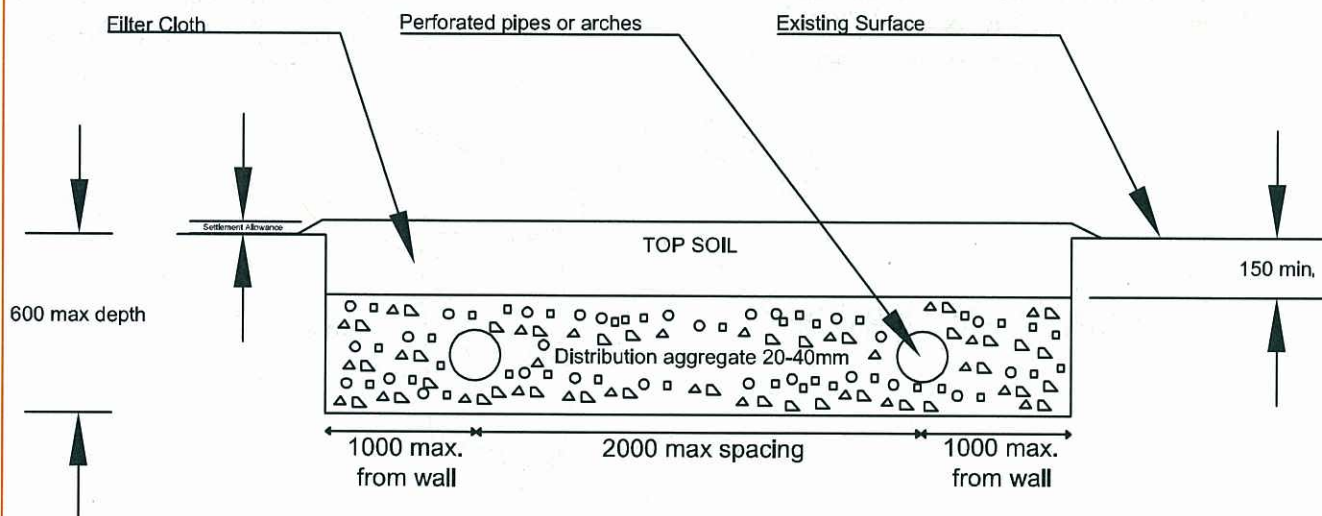
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DATE
8/8/13

SCALE

DWG NO.
1 of 2

JOB NO.
2K130952



Level Site - Slope Less Than 5 %

NOTE: CONTINUED EFFICIENT PERFORMANCE OF THIS EFFLUENT DISPOSAL SYSTEM MAY REQUIRE ROUTINE MAINTENANCE. AFTER INSTALLATION IT IS THE OWNER'S RESPONSIBILITY TO ENSURE THAT MAINTENANCE CHECKS ARE CARRIED OUT ON A REGULAR BASIS.

**The
SoilTesters**

CROSS SECTION CONVENTIONAL BED

SITE ADDRESS:

81 - 127 O'Dempsey Road, South Ripley

Hackworth and Associates
Pty Ltd.

JOB NO:
2K130952

SCALE:
N/a

DRW NO:
2 of 2

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