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Rain Water
Grey Water
Irrigation
Turf and Soils
Design Check list

Earth & Water to complete shaded section

Client to complete other sections

Builder	
Site Contact Name	
Phone Number	
Email	
Mailing Address	

Client Name	
Phone Numbers	
Email	
Site Address	
Mailing Address	

Irrigation System

Irrigation System	new / retrofit
Irrigate Garden Beds	yes / no
Irrigate Turf	yes / no Is the turf new / existing
Pots Irrigation – separate valve and pipe	yes / no
Verge	turf / natives
Irrigation Controller	new / exist. Location.....
Does the landscape drawing show the main features such as paving, shed, pool ?	
Sleeves	required / existing

Water source and location	scheme / bore / grey water / other
Flow rate and Pressure	
Quality	

Maximum Water Corporation Rebate for Irrigation System \$ 300
 Maximum Water Corporation Rebate for a Bore hole and Pump \$ 300

Earth and Water Offices - 125 Welshpool Road, Welshpool, WA 6106

Tel 08 - 9258 7372

 email – info@earthandwater.com.au

 web site www.earthandwater.com.au

Grey Water System

Grey Water Sources – laundry / shower	
Supply CAD Drawing of home – Showing location of home on the block, bedrooms, showers, laundry, basins etc	
Mark off proposed location of Grey Water Tank	
Number of bedrooms	
Type of Grey Water system required	
Define Grey Water irrigated areas on landscape plan if available	
Holiday Pack / Summer Top up source - recommended	yes / no

Minimum irrigated areas as required by Department of Health

The Department of Health require the drip line irrigation to be set back
300mm off Pathways / Boundaries and 500mm off Buildings

Number of Bedrooms	Laundry Washing Machine Only Minimum required Irrigated garden / turf area	Reuse of All Grey Water Minimum required Irrigated area
2	15 sqm	28 sqm
3	17 sqm	38 sqm
4	21 sqm	47 sqm
5	25 sqm	56 sqm

Minimum underground footprint size for Grey Water Sumps

Type	Basic Design	Footprint
best option Double Sedimentation tank	Two Concrete Tanks One 1,200mm x 1,200mm deep sedimentation tank followed by a 900mm x 900mm deep tank with a pump. Approx cost \$ 6,500	3,600mm x 4,500mm
frequent service option Single tank	One Polyethylene sump with a pump 900mm x 900mm x 500mm deep Approx cost \$ 4,500	1,400mm x 1,400mm
Laundry only cheapest G Flow	500mm long x 250mm wide x 300mm deep plastic grey-water tank and filter is simply mounted outside on the laundry wall Approx cost \$ 1,500	1,200mm above ground

Maximum Water Corporation Rebate for Grey Water \$ 500

Council Fees for approval \$ 202.00
Rain Water System

Rain water tank	above / below ground
Preferred size - litres	
Dimensions and location of the water tank	
Location of the Water Switch / Rain Bank	
Is scheme water back up required	yes / no
Single or Double story home	single / double
What does the rain water supply	toilet, washing machine,.....

Basic design, cost and minimum footprint size for Rain Water Tanks

Type	Basic Design and Cost	
	Additional cost for delivery, outlets, fittings and installation	Installation Footprint
<i>Above Ground Slimline</i> 3,000 litre	760mm wide x 2000mm high x 2300mm long Poly Tank only - \$ 1,800	800mm x 2600mm
<i>Above Ground Slimline</i> 1,500 litre	800mm wide x 1860mm high x 1400mm long Poly Tank only - \$ 700	900mm x 1700mm
<i>Above Ground Round</i> 4,500 litre	2,350mm diameter x 2300mm high Poly Tank only - \$ 1,000	2600mm x 2600mm
<i>Above Ground Round</i> 4,500 litre	1,880mm diameter x 1630mm high Galvanised Tank only - \$ 1,100	2100mm x 2100mm
<i>Below Ground Oblong</i> 2,000 litre	800mm wide x 2200mm high x 2200mm long Poly Tank only - \$ 1,300	4000mm x 4000mm
<i>Below Ground Concrete Round</i> From 2,000 litre	Sizes vary from 2,000mm diameter And 2,000mm deep Heavy duty concrete tank systems cost from \$ 9,000 upwards	From 4000mm x 4000mm

Pump and Rain Bank (Divertor) for the rain water system – Additional cost of \$ 1,300

Maximum Water Corporation Rebate for Rain Water tank System \$ 600

Landscaping – Soils and Turf

Remove and replace the old soils with improved soils and composts	yes / no
Remove the old turf? New turf type	
Mulch required	yes / no

Points / Costs to be considered and discussed with your Builder or Earth & Water

Timing	When should the system be installed
	When will driveways and paved footpaths go down
	Is there access for the tank once the walls are up
	Make the sleeves and pre-lays are installed prior to paving etc
Electricals	Who is quoting for this work
	When should the electrical work be done
	Consider locations of the Irrigation controller, Grey Water Alarm etc
All Plumbing	Who is quoting for this work
	When should the plumbing work be done
	Make sure the second pipe (grey water) is plumbed at the build stage
	Allow for a reflux valve or disconnected gulley to avoid back flow of black water to the grey water
	Ensure adequate underground space is left for the grey water system and pipes. Make sure the plumbers, builders etc have a copy of our grey water plan
Rain Water	Who is installing the down pipes to the rain water tanks
	Have you allowed for an overflow soak well or pit
	Who is making the rain water tank pad or excavating the hole
	What is happening to the storm water run-off from the paving / driveway
	Which plumber is connecting the scheme water to the divertor and back to the house
Approvals	Get all Council Approvals and other approvals prior to ordering any equipment etc and definitely prior to installation and use.

Design and Consultancy

To enable us to scope and cost up your system Earth & Water need to create a design after meeting with you to establish exactly what you want.

In this meeting we will check information such as building setbacks, irrigated areas, discuss your ideas on say what you want to do with your rain water etc. The meeting for residential systems usually takes about an hour. If it is a straight forward system and your plans are accurate and we possibly do not have to visit the site then we can meet in our offices as it saves us time and you money.

As a result of consultation and development of our AUTOCAD design we can THEN cost up your proposal. The costs are itemised and broken up into descriptive sections for you to make an informed decision.

Hourly Rates	Irrigation consult and design	\$ 112.50 + GST
	Water Treatment consult	\$ 150.00 + GST

Generally most residential home design costs as follows:

Drip Irrigation system - \$ 250.00
Above Ground Rain Water system - \$ 250.00
Below Ground Rain Water system - \$ 350.00
Grey Water system and Drip Irrigation System - \$ 350.00