

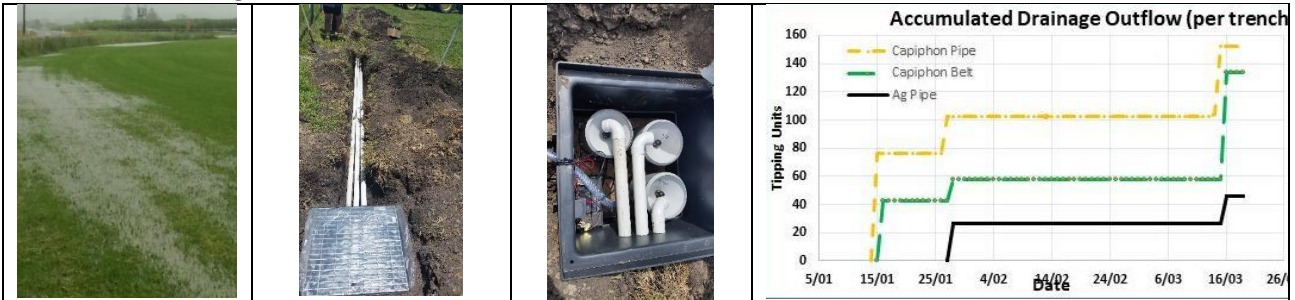
# The Installed Cost of Capiphon Drainage is Less

By “cost less”, we mean we anticipate you will enjoy savings from one or more of the following:

- ✓ By not requiring a geotextile cloth to prevent soil particles from entering into the system.
- ✓ By backfilling with washed coarse sand which is easier to transport and handle than gravel.
- ✓ By using a narrower trench.
- ✓ By using a shallower trench.

## ✓ Racecourse Drainage.


In a scientifically designed trial, Capiphon Drainage was compared to the standard specified by Racing NSW - 50mm ag pipe without sock, embedded in small gravel and the trench backfilled with sand. While it was difficult to compare the cost of installation of the two systems in trial conditions, the independent contractor was asked to estimate the cost for larger, more usual installations.



Even more significant than the increased efficacy of Capiphon, the independent contractor ([Sports Turf Services](#)) installing the system reported that Capiphon installation costs were much lower, to the extent that **the installed cost of Capiphon drainage was some 40% less than the standard drainage.**


## ✓ Playground Softfall

A contractor interviewed for this trial was asked to quote for the job using his usual methods (he didn't want to try our new system). The new contractor provided this actual cost.

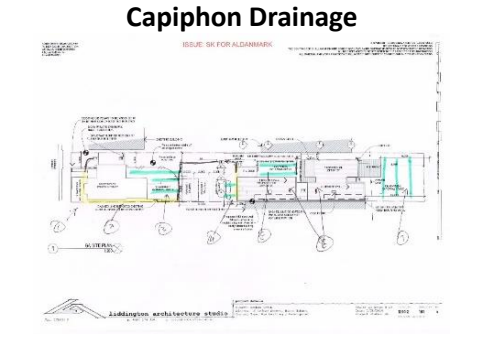
	Capiphon™ Drainage		Conventional Drainage		Comments
	Item	Cost	Item	Cost	
					
	<b>Labour</b>	\$2,400	<b>Labour</b>	\$3,200	
	<b>PVC Pipes</b>	\$198	<b>Ag Pipe</b>	\$900	50 mm DWV
	<b>Sand</b>	\$40	<b>Aggregate</b>	\$1,800	
	<b>Excavation</b>	\$680	<b>Excavation</b>	\$2,400	Capiphon™ requires smaller machine. Less spoil to remove.
	<b>Capiphon™</b>	\$270	<b>Geofabric</b>	\$1,206	
			<b>Top soil</b>		
		<b>\$3,588</b>		<b>\$9,506</b>	<b>Saving: \$5,918</b>

## ✓ Cost Comparison on Reactive Soil

A contractor (a plumber) was given the plans and the engineer's report, and asked to draw up a drainage plan with a quote.

Conventional Drainage	Item	Cost
	20mm blue metal aggregate	\$1,156.00
	100mm socked aggy pipe	\$467.00
	Geo fabric cloth	\$489.00
	Excavation costs 2.5 days	\$2,290.00
	Labour 3 days @ \$ 88	\$2,112.00
	<b>Total =</b>	<b>\$6,514.00</b>

A Capiphon installer was given the same plan and report and also asked for a plan and quote.

 <p><b>Capiphon Drainage</b></p> <p>ISSUE: SK FOR ALDANBARK</p> <p>Liddington architecture studio</p>	Capiphon Drainage Quote	Quantity	per unit	Cost
	Capiphon - 10m rolls	8	110.0	\$880
	Coarse sand	1.2	55.0	\$66
	50mm DWV pipe	42	3.2	\$133
	Delivery	2	20.0	\$40
	Excavation	8	150.0	\$1,200
	Labour	14	88.0	\$1,232
	Fittings	6	5.0	\$30
	<b>Total =</b>			<b>\$3,581</b>

✓ **Spreadsheet analysing where the cost savings in a 40m Intercept Drain.**

Comparison of Ag Line to Capiphon Drintube Based on Simple Intercept Drain										
Length of drain (metres)	40.00									
Site difficulty (select one)	Average		(note: does not assume site difficulty varies for type of machine. To be included later)							
Conventional				Cost	Unit	per job	\$ per metre			
Labour cost				100.00	per hour					
Trench Dimension (mm)										
Width	300 mm									
Depth	600 mm									
Volume	7.2									
Hire 1.7t Excavator										
Dig time of trench including set up	16 hours									
Excavator cost hire per hour	150.00									
Site difficulty	1									
excavation cost (hire + operator)			4,000	100.00						
Volume of spoil										
Labour	25 per m3									
Equipment/trucking	20.00 per m3									
Site difficulty	1									
excavation cost (hire + operator)			8,100	202.50						
Spoil tip fees \$100 m3 x 0.09m3	100.00		720	18.00						
100mm x 20m Socked Slotted PVC				180.00	20	360	9.00			
Time to install Draincoil	2									
Installation cost labour			200	5.00						
Geofabric 2m x 50m roll 140gsm				265.00	100	265	6.63			
Time install geofabric	2		80	2.00						
Installation cost labour			200	5.00						
Backfill with stone/gravel										
cost of stone per metre)	75.00		540	13.50						
Backfill time	2									
Backfill cost operator + operator			500	12.50						
JOB TOTAL						14,965		4,844		
TOTAL per metre						374.13		121.10	32%	

✓ **Analysis from Taiwan Railway Engineers**

Under the condition of the same water collection, the unit price (including the cost of construction and other filter materials) required for 10-meter drainage in a railway embankment.

Product	Maintenance Cycle	TWD	AUD	AUD/Year
1. Capiphon Drintube	25+ years	\$24,720	\$1,179	\$47
2. PVC pipe with holes(φ3")	3-5 years	\$162,528	\$7,754	\$1,550
3. PVC pipe with holes(φ4")		-	-	
4. HDPE mesh pipe(φ3")	5-10 years	\$48,797	\$2,331	\$233
5. HDPE mesh pipe(φ4")		-	-	