

Appendix E

WSUD LIFECYCLE COSTING

Treatment Train - Life Span Cost Results

Upstream of Receiving Node

FLOW BALANCE

RE-USE BASIN 1

BIO BASIN 1a (800m2)

CDS 1512 (1)

BIO BASIN 1b (540m2)

ROADSIDE BIO (200m2)

LOT 3 BIO (650m2)

20xOCEANGUARD

10xOCEANGUARD

240kL TANK

WH3 RE-USE TANK

BIO BASIN 1+2 (660m2)

WH1+2 RE-USE TANK

6xOCEANGUARD

7xOCEANGUARD

7xOCEANGUARD

300kL TANK

CDS 1512

Treatment Train - Life Span Cost Results

Span of Analysis (yrs)	30
Real Discount Rate (%)	5.50
Annual Inflation Rate (%)	2.00
Base Year for Costing	2021

Costing Results

Life Cycle Cost of Treatment Train (\$2021)	\$2,947,963
Equivalent Annual Payment Cost of Treatment Train (\$2021/annum)	\$98,265
Equivalent Annual Payment per m3/s maximum flow reduction	\$17,355.54
Equivalent Annual Payment/ML flow reduction/annum	\$2,258.39
Equivalent Annual Payment/kg Total Suspended Solids/annum	\$5.50
Equivalent Annual Payment/kg Total Phosphorus/annum	\$3,204.81
Equivalent Annual Payment/kg Total Nitrogen/annum	\$651.97
Equivalent Annual Payment/kg Gross Pollutant/annum	\$37.81

Treatment Train - Life Span Cost Results

Upstream of Receiving Node

FLOW BALANCE
RE-USE BASIN 1
BIO BASIN 1a (800m2)
CDS 1512 (1)
BIO BASIN 1b (540m2)
ROADSIDE BIO (200m2)
LOT 3 BIO (650m2)
20xOCEANGUARD
10xOCEANGUARD
240kL TANK
WH3 RE-USE TANK
BIO BASIN 1+2 (660m2)
WH1+2 RE-USE TANK
6xOCEANGUARD
7xOCEANGUARD
7xOCEANGUARD
300kL TANK
CDS 1512

Treatment Train - Life Span Cost Results

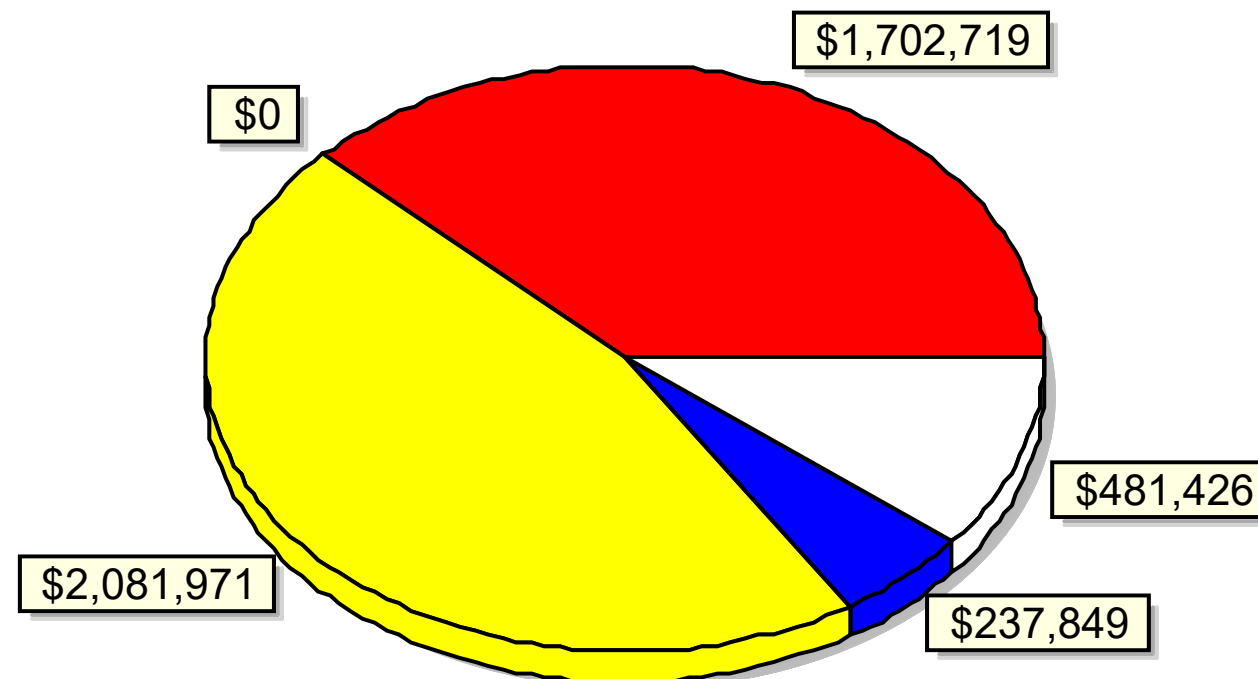
Span of Analysis (yrs)	30
Real Discount Rate (%)	5.50
Annual Inflation Rate (%)	2.00
Base Year for Costing	2021

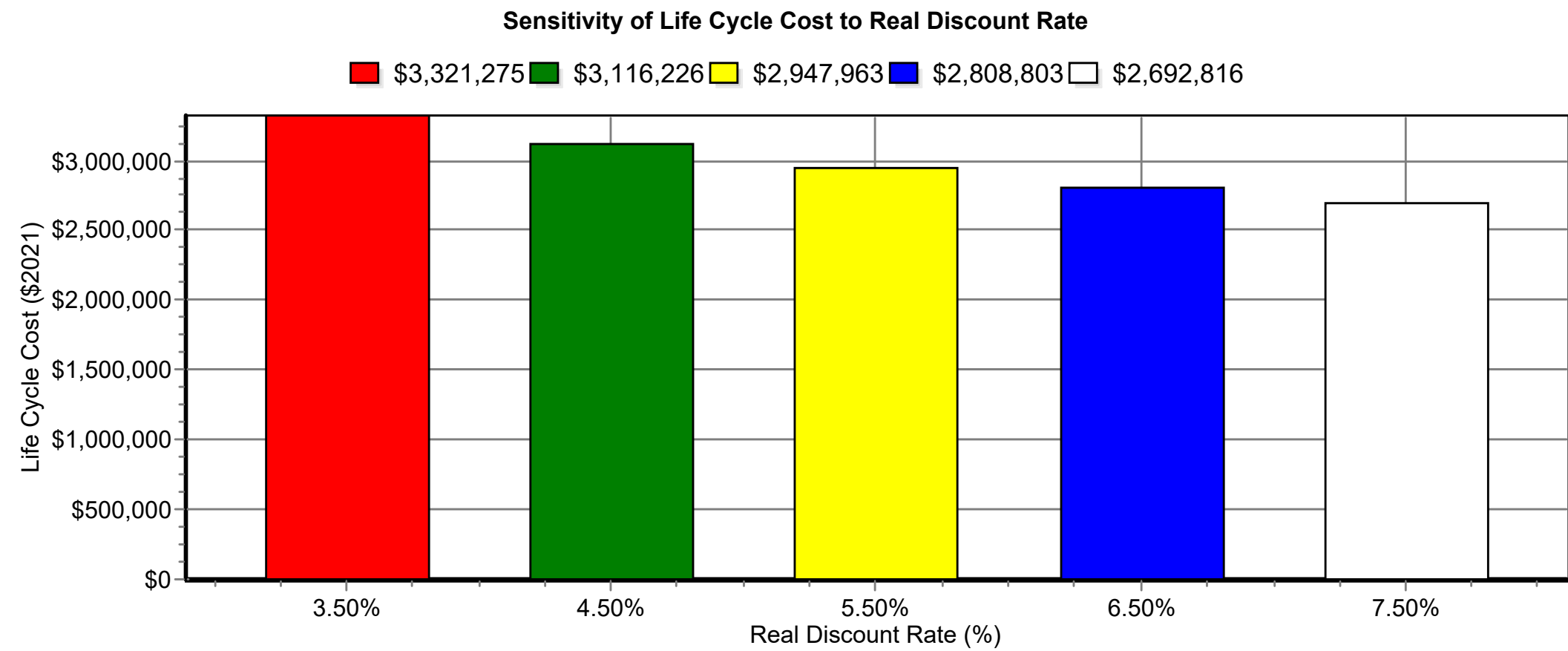
Costing Results

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Real Costs (\$2021)

	Total Acquisition Cost	38 %
	Sum of Annual Establishment Costs	0 %
	Sum of Annual Maintenance Costs	46 %
	Sum of Renewal Costs	5 %
	Decommissioning Cost	11 %





Distribution of Real and Discounted Real Costs over the Span of Analysis

