

Input Data



Intersection 1	
Name	Moonshine Hill Rd / SH2
Include / Exclude from Evaluation	Include

Standard Safety Intervention Application Details	Intersection 1	Overall
Treatment Approach	Safer Intersections	
Primary Treatment	Signals	
Secondary Treatment		
DSi saved / year		0
Total Estimated Cost	\$ 2,044,370	\$ 2,044,370
DSi saved / year / \$100M		0.0

SSI Output Measures

Length of Median Barrier (km)
 Length of Wide Centreline (km)

Crash Data

Years of Crash Data
 Final year of Crash Data
 Crash Data Period

Injury Crashes by Road User
Crashes entered in the corridor column

Road User / Crash Movement Code	Intersection 1	Overall
Pedestrian		0
Cyclist		0
Motorcyclist	1	1
A		0
B		0
C		0
D		0
E		0
F	1	1
G		0
H		0
J	5	5
K		0
L	5	5
M		0
Q		0
Actual DSi Casualties	3	3
All Wet or Dark (C&D) injury crashes, incl Mcyc		0
Total Injury Crashes	12	12

Released under the Official Information Act 1982

Moonshine Hill Rd / SH2

Baseline and Estimated DSI Reduction



Base Data	
Intersection Control	Priority T
Speed Limit	80 km/h
AADT Major Leg 1	13910 vpd
AADT Major Leg 2	13726 vpd
AADT Minor Leg 1	2044.5 vpd
AADT Minor Leg 2	0 vpd
Product of Flow	724

Proposed Data	
Intersection Treatment	Signals
Fundamental Change	Yes
Engineer's Estimate	\$ 1,290,000
Speed Limit	60 km/h
AADT Leg 1	13910 vpd
AADT Leg 2	13726 vpd
AADT Leg 3	2044.5 vpd
AADT Leg 4	0 vpd
Product of Flow	724

Standard Safety Intervention Reduction	30%
Travel Time Benefit (Cost) per annum	\$ -
VOC Benefit (Cost) per annum	\$ -

Injury Crashes by Road User Involvement and Movement Type

Ped	0
Cyc	0
Mcyc	1
A	0
B	0
C	0
D	0
E	0
F	1
G	0
H	0
J	5
K	0
L	5
M	0
Q	0

Actual DSI Casualties 3

Derived Metrics

Exposure	0.0225 100m VKT
Injury Crashes	12 5-years
Reactive DSI equivalents	3.65 5-years
Reactive Collective Risk	HIGH
Reactive Personal Risk Value	162.5
Reactive Personal Risk	HIGH
Predicted DSI equivalents	0.23 5-years
Predicted Collective Risk	LOW
Predicted Personal Risk Value	10.0
Predicted Personal Risk	MEDIUM
Baseline DSI equivalents	2.176 5-years
Collective Risk	HIGH
Personal Risk	HIGH
Future DSI Equivalents	1.523 5-years
Exposure	0.0225 100m VKT
Future Collective Risk	MEDIUM HIGH
Future Personal Risk	HIGH
	0.65 5-years
	0.13 per annum
Estimated DSI Reduction	30.0%

Released under the Official Information Act 1982

Output Data

Comparison with Standard Safety Intervention Application		
Core Metrics	Intersection 1	
Treatment Approach	Moonshine Hill Rd / SH2	
Primary Treatment	Safe System Transformation	
Secondary Treatment	Signals	
DSi saved / year		0.13
Engineer's Estimate	\$	1,670,000
DSi saved / year / \$100M		7.8
Length of Median Barrier (km)		
Length of Wide Centreline (km)		
Monetised Benefits and Costs Summary		
Supplementary Metrics v Baseline	Intersection 1	
DSi saved / year		0.13
DSi Value	\$	1,400,000
Safety Benefits per annum	\$	182,783
Safety Benefits 40 years	\$	3,689,652
Whole of Life Project Cost (NPV)	\$	1,837,000
Safety Only Benefit to Cost Ratio (BCR)		2.01
Supplementary Metrics v Do Minimum SAAS		
DSi saved / year		0.13
DSi Value	\$	1,400,000
Safety Benefits per annum	\$	182,783
Safety Benefits 40 years	\$	3,689,652
Whole of Life Project Cost (NPV)	\$	1,837,000
Safety Only Benefit to Cost Ratio (BCR)		2.01
Travel Time Benefits (Costs) per annum	\$	-
VOC Benefits (Costs) per annum	\$	-
Project Benefits per annum	\$	182,783
Project Benefits 40 years	\$	3,689,652
Project BCR		2.01

Released under the Official Information Act 1982