



LigoWave Link Analysis Report

Date Generated: 10/4/2010 11:30 AM EST

SITE INFORMATION

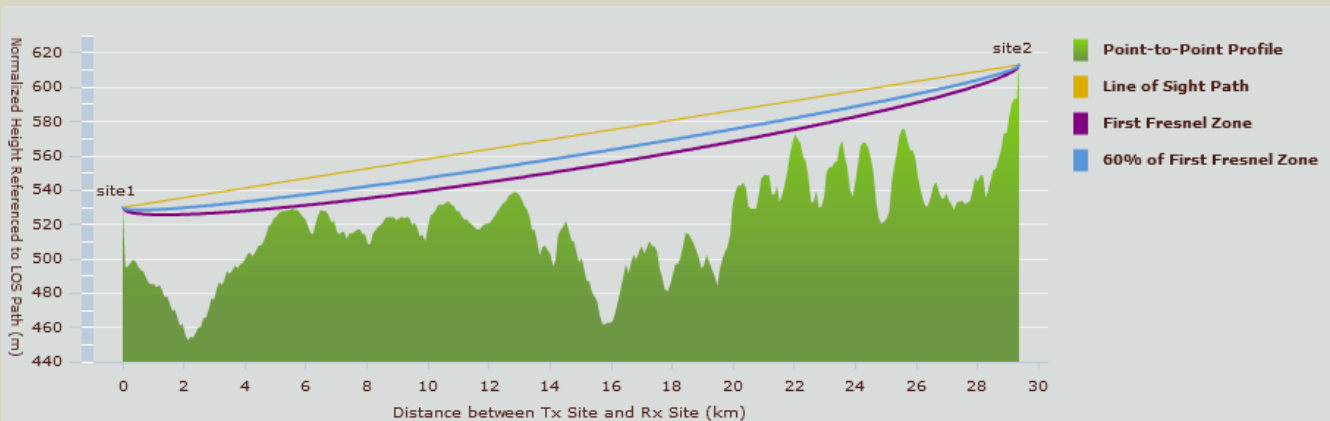
Tx Site Name	: site1	Rx Site Name	: site2
Radio Type	: LigoPTP 5 Mimo	Radio Type	: LigoPTP 5 Mimo
Latitude	: 24° 16' 56.38" S (24.282328)	Latitude	: 24° 11' 18.85" S (24.188569)
Longitude	: 53° 4' 32.64" W (53.075733)	Longitude	: 52° 48' 17.91" W (52.804975)
Tx Power	: 25 dBm	Rx Threshold	: -94 dBm
Ant. Gain	: 30 dBi	Ant. Gain	: 30 dBi
Ant. Height	: 40 meters	Ant. Height	: 30 meters

PARAMETERS

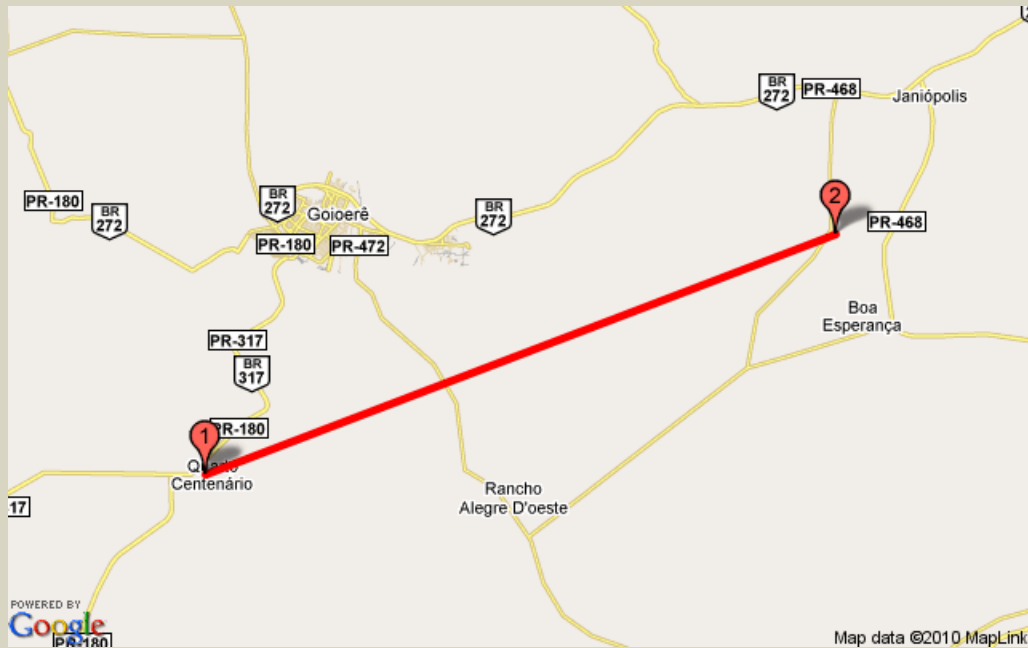
Frequency	: 5800 MHz	Climate	: Continental Temperate
Ant. Polarization	: Vertical	Measurement System	: Metric System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 138.18 dBm	Thermal Fade Margin	: 40.82 dBm
Rx Signal Level	: -53.18 dBm	Distance between sites	: 29.37 km
EIRP	: 55 dBm	Link availability due to rain	: N/A%



MAP



Path Loss:138.18 dBm

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-53.18 dBm	40.82 dBm	N/A%	1X1	6 Mbps
QPSK 1/2	-53.18 dBm	37.82 dBm	N/A%	1X1	12 Mbps
QPSK 3/4	-53.18 dBm	35.82 dBm	N/A%	1X1	18 Mbps
16-QAM 1/2	-54.18 dBm	31.82 dBm	N/A%	1X1	22 Mbps
16-QAM 3/4	-56.18 dBm	25.82 dBm	N/A%	1X1	38 Mbps
64-QAM 2/3	-57.18 dBm	19.82 dBm	N/A%	1X1	44 Mbps
64-QAM 3/4	-58.18 dBm	16.82 dBm	N/A%	1X1	50 Mbps
64-QAM 5/6	-59.18 dBm	13.82 dBm	N/A%	1X1	55 Mbps
BPSK 1/2	-53.18 dBm	40.82 dBm	N/A%	2X2	12 Mbps
QPSK 1/2	-53.18 dBm	37.82 dBm	N/A%	2X2	24 Mbps
QPSK 3/4	-53.18 dBm	35.82 dBm	N/A%	2X2	36 Mbps
16-QAM 1/2	-54.18 dBm	31.82 dBm	N/A%	2X2	44 Mbps
16-QAM 3/4	-56.18 dBm	25.82 dBm	N/A%	2X2	76 Mbps
64-QAM 2/3	-57.18 dBm	19.82 dBm	N/A%	2X2	88 Mbps
64-QAM 3/4	-58.18 dBm	16.82 dBm	N/A%	2X2	100 Mbps
64-QAM 5/6	-59.18 dBm	13.82 dBm	N/A%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-53.18 dBm	40.82 dBm	N/A%	1X1	12 Mbps
QPSK 1/2	-53.18 dBm	37.82 dBm	N/A%	1X1	24 Mbps
QPSK 3/4	-53.18 dBm	35.82 dBm	N/A%	1X1	36 Mbps
16-QAM 1/2	-54.18 dBm	31.82 dBm	N/A%	1X1	44 Mbps
16-QAM 3/4	-56.18 dBm	25.82 dBm	N/A%	1X1	76 Mbps
64-QAM 2/3	-57.18 dBm	19.82 dBm	N/A%	1X1	88 Mbps
64-QAM 3/4	-58.18 dBm	16.82 dBm	N/A%	1X1	100 Mbps
64-QAM 5/6	-59.18 dBm	13.82 dBm	N/A%	1X1	110 Mbps
BPSK 1/2	-53.18 dBm	40.82 dBm	N/A%	2X2	24 Mbps
QPSK 1/2	-53.18 dBm	37.82 dBm	N/A%	2X2	48 Mbps
QPSK 3/4	-53.18 dBm	35.82 dBm	N/A%	2X2	72 Mbps
16-QAM 1/2	-54.18 dBm	31.82 dBm	N/A%	2X2	88 Mbps
16-QAM 3/4	-56.18 dBm	25.82 dBm	N/A%	2X2	115 Mbps
64-QAM 2/3	-57.18 dBm	19.82 dBm	N/A%	2X2	135 Mbps
64-QAM 3/4	-58.18 dBm	16.82 dBm	N/A%	2X2	160 Mbps
64-QAM 5/6	-59.18 dBm	13.82 dBm	N/A%	2X2	180 Mbps