

Migration Barrier Table: Arroyo Paredon, San Ysidro, and Montecito Watersheds

**BARRIER ID**

**Arroyo Paredon**

BR_AP_1
BR_AP_2
BR_AP_3
BR_AP_4
BR_AP_5
BR_AP_6
BR_AP_7
BR_AP_8
BR_AP_OL_1
BR_AP_OL_2

Primary Stream	Primary Tributary	Secondary Tributary	Tertiary Tributary	Physical Description of Barrier Location
Arroyo Paredon				Highway 192 Crossing ~ Elevation 210'
Arroyo Paredon				~ Elevation 450'
Arroyo Paredon				~ Elevation 680'
Arroyo Paredon				~ Elevation 690'
Arroyo Paredon				~ Elevation 825'
Arroyo Paredon				~ Elevation 1100'
Arroyo Paredon				~ Elevation 1200'
Arroyo Paredon	Oil			~ Elevation 775'
Arroyo Paredon	Oil			~ Elevation 850'

Ownership / Interest	Barrier Type	Severity
CALTRANS	Bridge and Concrete-lined bottom	0.90
	Stream Crossing	0.00
	Unsustained Slope Exceeding 10%	0.00
	Stream Crossing	0.00
	Stream Crossing	0.00
SBCFCD	Debris Basin Dam	0.00
Edison	Stream Crossing	0.00
Rancho Cielo	Sustained Slope Exceeding 10%	1.00
Rancho Cielo	Grade Control Structure	0.00
Rancho Cielo	Sustained Slope Exceeding 10%	1.00

Stream Miles from Ocean to Downstream End	Stream Miles from Ocean to Upstream End	Total Length of Structure (miles)
0.91		
1.45		
2.16		
2.71		
2.75		
3.03		
3.66		
3.84		
2.96		
3.08		

Stream Miles to Natural Upstream Limits	Stream Miles to Next Known 1.0 Severity Barrier	Total Habitat Score to Natural Upstream Limits
3.23	2.29	2.19
2.69	1.75	1.82
1.98	1.04	1.34
1.43	0.49	0.97
1.39	0.45	0.94
0.81	0.81	0.56
0.18	0.18	0.12
NA	NA	NA
0.12	0.12	0.08
NA	NA	NA

Migration Barrier Priority Ranking
1
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**San Ysidro Creek**

BR_SY_1
BR_SY_2
BR_SY_3
BR_SY_4
BR_SY_5
BR_SY_6
BR_SY_7
BR_SY_8
BR_SY_9
BR_SY_10
BR_SY_11
BR_SY_12
BR_SY_13
BR_SY_14
BR_SY_15

Primary Stream	Primary Tributary	Secondary Tributary	Tertiary Tributary	Physical Description of Barrier Location
San Ysidro				Under Private Bridge u/s of Lagoon
San Ysidro				Under UPRR and S.B. County Rd. Crossing
San Ysidro				u/s of Highway 101 Crossing
San Ysidro				~ Elevation 240'
San Ysidro				~ Elevation 240'
San Ysidro				~ Elevation 250'
San Ysidro				~125' d/s of Highway 192 Bridge
San Ysidro				~ Elevation 350'
San Ysidro				~ 100' d/s Debris Basin Dam
San Ysidro				~ Elevation 490'
San Ysidro				~Elevation 810'
San Ysidro				~Elevation 820'
San Ysidro				~300' u/s Edison Power Line Crossing
San Ysidro				~Elevation 1160'
San Ysidro				~ Elevation 1350'

Ownership / Interest	Barrier Type	Severity
SBCFCD	Grade Control Structure	0.20
UPRR/SBCPWRD	Bridges and Channelization	0.80
SBCFCD	Boulder Grade Control Structure	0.30
	Grade Control Structure	0.40
	Grade Control Structure	0.60
	Grade Control Structure	0.50
	Grade Control Structure	0.30
	Boulder Cascades	0.80
Montecito Co. Water Agency	Pipe Crossing Grade Control Structure	0.90
SBCFCD	Debris Basin Dam	1.00
Tilson	Bedrock and Boulder Chute	0.80
Tilson	Bedrock and Boulder Waterfall	0.90
Tilson	Boulder Waterfall	0.90
San Ysidro Ranch Investors LMTD Partnership	Boulder Waterfall	0.90
San Ysidro Ranch Investors LMTD Partnership	Sustained Slope Exceeding 10%	1.00

Stream Miles from Ocean to Downstream End	Stream Miles from Ocean to Upstream End	Total Length of Structure (miles)
0.03		
0.09	0.13	0.04
0.27		
1.50		
1.51		
1.52		
1.53		
1.88		
2.28		
2.30		
2.74		
2.75		
2.88		
3.24		
3.58		

Stream Miles to Natural Upstream Limits	Stream Miles to Next Known 1.0 Severity Barrier	Total Habitat Score to Natural Upstream Limits
3.55	2.27	2.65
3.49	2.21	2.63
3.31	2.03	2.56
2.08	0.80	1.83
2.07	0.79	1.82
2.06	0.78	1.81
2.05	0.77	1.80
1.70	0.42	1.55
1.30	0.02	1.23
1.28	1.28	1.21
0.84	0.84	0.83
0.83	0.83	0.81
0.70	0.70	0.68
0.34	0.34	0.33
NA	NA	NA

Migration Barrier Priority Ranking
9
3
7
6
4
5
8
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1
2
n
n
n
n

**Montecito Creek**

BR_MO_1
BR_MO_2
BR_MO_3
BR_MO_4
BR_MO_5
BR_MO_6
BR_MO_7
BR_MO_8
BR_MO_9
BR_MO_10
BR_MO_11
BR_MO_12
BR_MO_13
BR_MO_14
BR_MO_15
BR_MO_16
BR_MO_17
BR_MO_18
BR_MO_19
BR_MO_CS_1
BR_MO_CS_2

Primary Stream	Primary Tributary	Secondary Tributary	Tertiary Tributary	Physical Description of Barrier Location
Montecito				Mouth u/s to UPRR Crossing
Montecito				30' u/s Highway 101 Crossing
Montecito				150' u/s Highway 101 Crossing
Montecito				275' u/s Highway 101 Crossing
Montecito				400' u/s Highway 101 Crossing
Montecito				600' u/s Highway 101 Crossing
Montecito				~Elevation 60'
Montecito				~Elevation 75'
Montecito				~Elevation 80'
Montecito				~Elevation 100'
Montecito				~ Elevation 100'
Montecito				~Elevation 110'
Montecito				~Elevation 125'
Montecito				~Elevation 150'
Montecito				~Elevation 230'
Montecito				~Elevation 230'
Montecito				~Elevation 240'
Montecito				Highway 192 Bridge Crossing
Montecito				~Elevation 300'
Montecito	Cold Springs			~Elevation 485'
Montecito	Cold Springs			~ Elevation 550'

Ownership / Interest	Barrier Type	Severity
SBCFCD	Concrete Channelization	0.80
CALTRANS	Grade Control Structure	0.20
	Grade Control Structure	0.60
	Grade Control Structure	0.50
SBCFCD	Grade Control Structure	0.80
	Grade Control Structure	0.40
	Grade Control Structure	0.40
	Grade Control Structure	0.30
	Grade Control Structure	0.40
	Grade Control Structure	0.40
	Bridge and Concrete-lined Bottom	0.70
	Grade Control Structure	0.30
SBCFCD	Debris Basin Dam	0.00
Casa Dorinda	Concrete Channelization	0.90
	Collapsed Bank Revetment	0.60
	Grade Control Structure	0.40
	Grade Control Structure	0.30
CALTRANS	Bridge and Grade Control Structure	0.70
	Grade Control Structure	0.80
	Stone Dam	0.70
SBCFCD	Debris Basin Dam	1.00

Stream Miles from Ocean to Downstream End	Stream Miles from Ocean to Upstream End	Total Length of Structure (miles)
0.00	0.18	0.18
0.48		
0.52		
0.56		
0.59		
0.65		
0.67		
0.73		
0.77		
0.89		
0.91		
0.93		
1.00		
1.03	1.16	0.13
1.57		
1.58		
1.60		
1.64		
1.91		
2.54		
2.82		

Stream Miles to Natural Upstream Limits	Stream Miles to Next Known 1.0 Severity Barrier	Total Habitat Score to Natural Upstream Limits
4.17	2.82	3.04
3.69	2.34	2.82
3.65	2.30	2.79
3.61	2.26	2.77
3.58	2.23	2.75
3.52	2.17	2.71
3.50	2.15	2.69
3.44	2.09	2.66
3.40	2.05	2.63
3.28	1.93	2.55
3.26	1.91	2.53
3.24	1.89	2.52
3.17	1.82	2.47
3.14	1.79	2.46
2.60	1.25	2.10
2.59	1.24	2.09
2.57	1.22	2.07
2.53	1.18	2.04
2.26	0.91	1.83
1.63	0.28	1.26
1.35	1.35	1.01

Migration Barrier Priority Ranking
4
22
11
13
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14
15
19
16
17
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12
18
21
9
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10
2

<b>BR_MO_CS_3</b>	Montecito	Cold Springs			~ Elevation 675'
<b>BR_MO_CS_4</b>	Montecito	Cold Springs			Mountain Drive Crossing
<b>BR_MO_CS_5</b>	Montecito	Cold Springs			Immediately u/s East Fork Conf.
<b>BR_MO_CS_6</b>	Montecito	Cold Springs			~Elevation 1305'
<b>BR_MO_CS_EF_1</b>	Montecito	Cold Springs	East Fork		~250' u/s Cold Springs Ck. Conf.

	Aerial Pipe Blockage	0.80
SBCPWRD	Stream Crossing	0.90
Cima del Mundo LLC.	Boulder Waterfall	0.90
City of Santa Barbara	Bedrock Chute	1.00
Cima del Mundo LLC.	Boulder Cascade	1.00

3.11		
3.24		
3.49		
4.09		
3.56		

1.06	1.06	0.75
0.93	0.93	0.63
0.60	0.60	0.37
NA	NA	NA
NA	NA	NA

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3
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n
n

**Physical Description of Barrier Location:**

- GPS used to input some barrier locations into the GIS Database (available from CCP).
- Barrier location elevations are based on contour line and stream intersections locations derived in the field and using USGS topographical 7.5 minute quad maps.
- Barriers located using GPS were assigned approximate elevations using USGS 30-meter Digital Elevation Models. Approximate (~) elevations are given in feet (').
- The lower number and sign(#) refer to most downstream structure with a similar name.
- For example, "#1 Highway 150 Bridge" refers to the first, or most downstream, of the Highway 150 Bridges encountered by upstream migrating steelhead.
- u/s= upstream -d/s= downstream -Ck.= Creek -Conf.= Confluence

**Migration Barrier Priority Ranking:**

- u=unknown
- n=natural