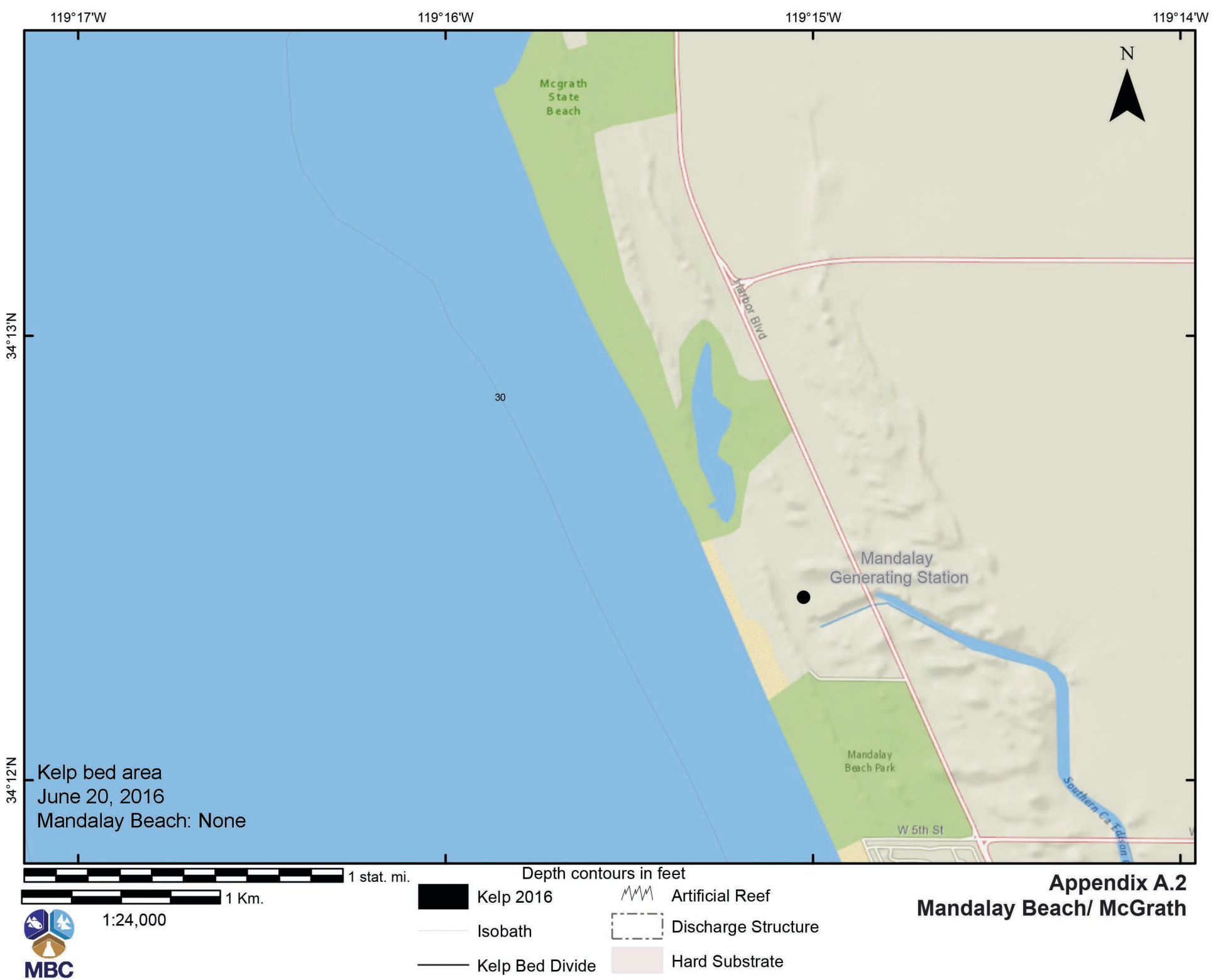
APPENDIX A

Kelp Canopy Maps



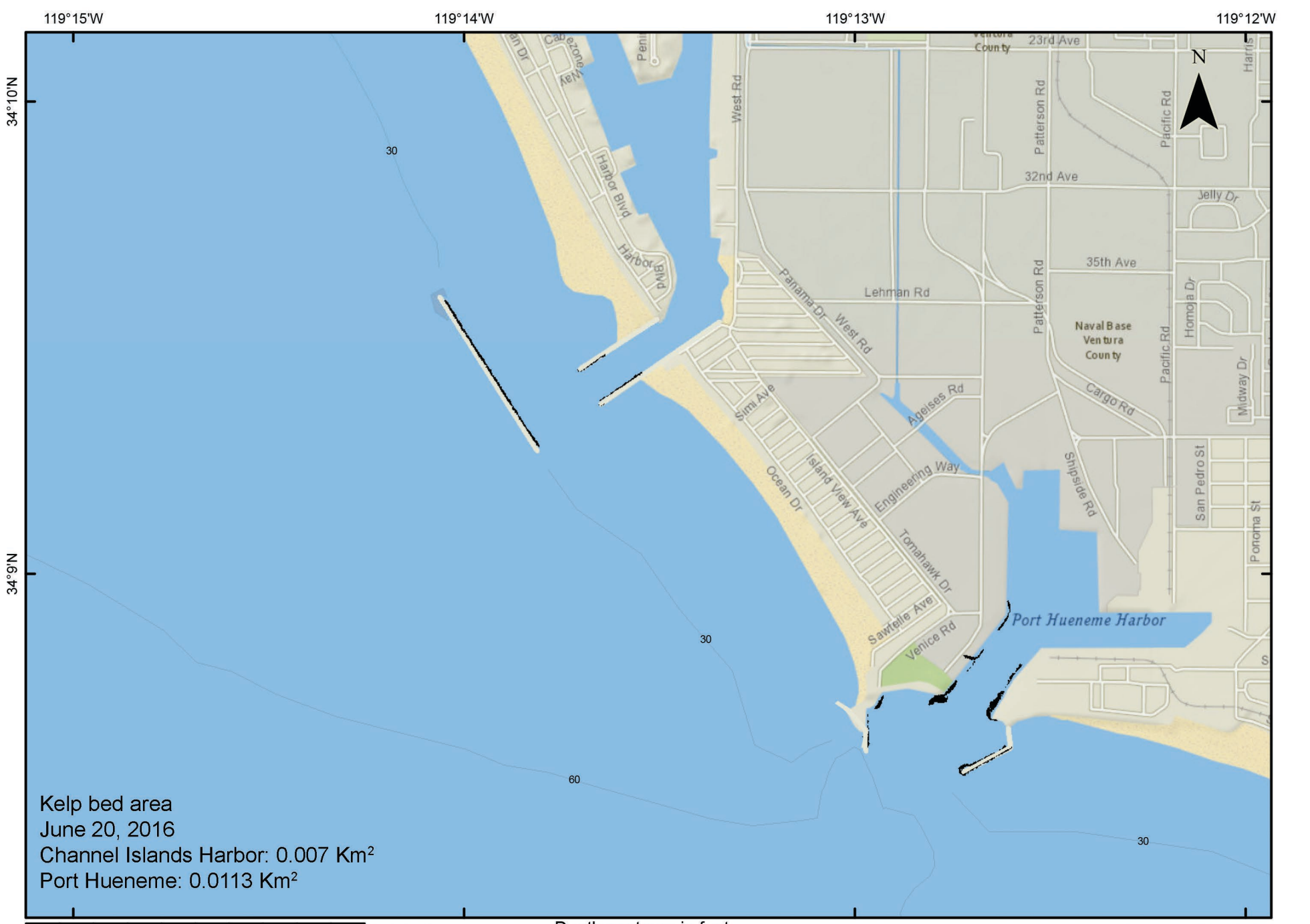
Appendix A.1
Ventura Marina



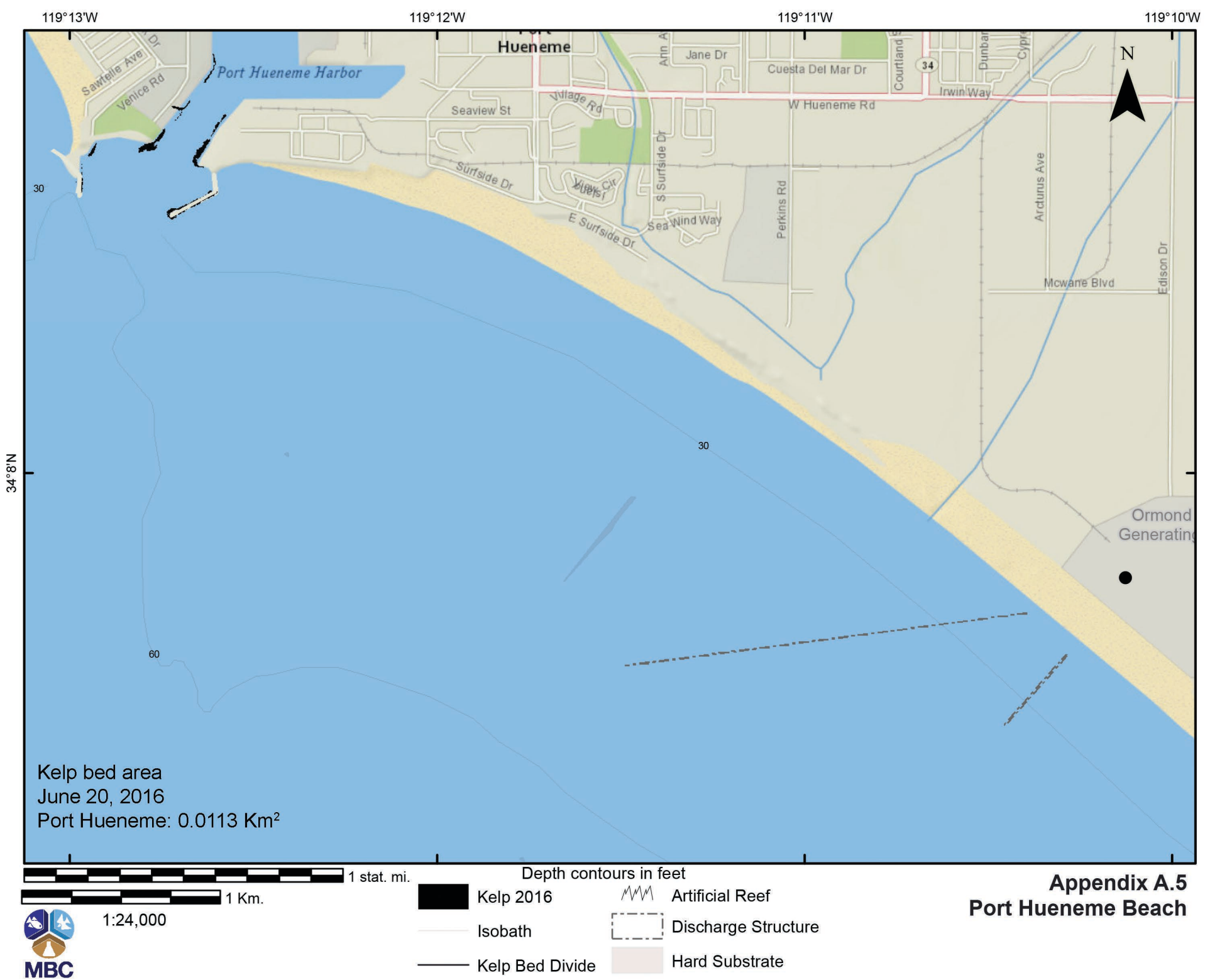
Appendix A.2
Mandalay Beach/ McGrath



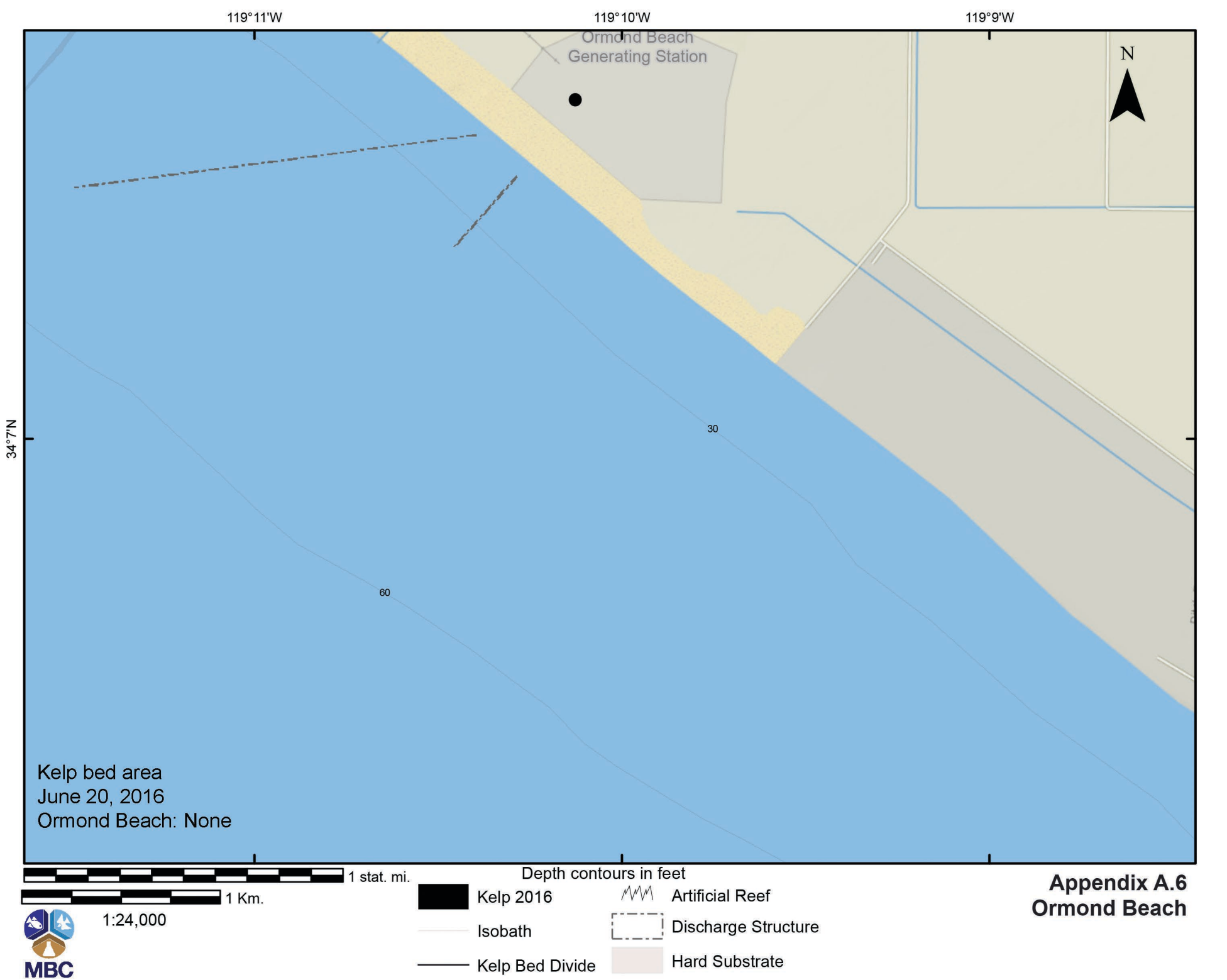
Appendix A.3
Oxnard (Silver Strand)

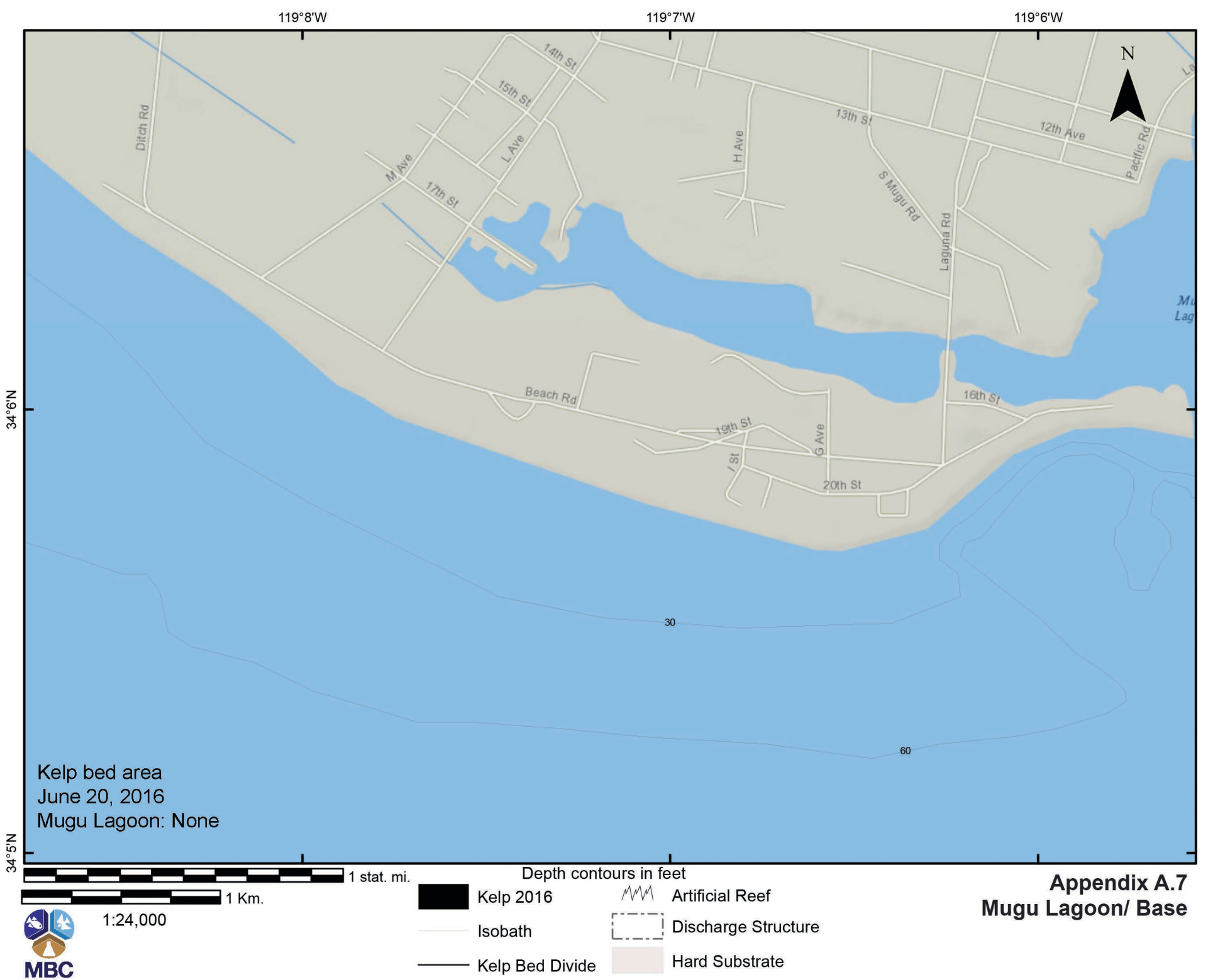


Appendix A.4
Channel Island Harbor/ Port Hueneme Harbor

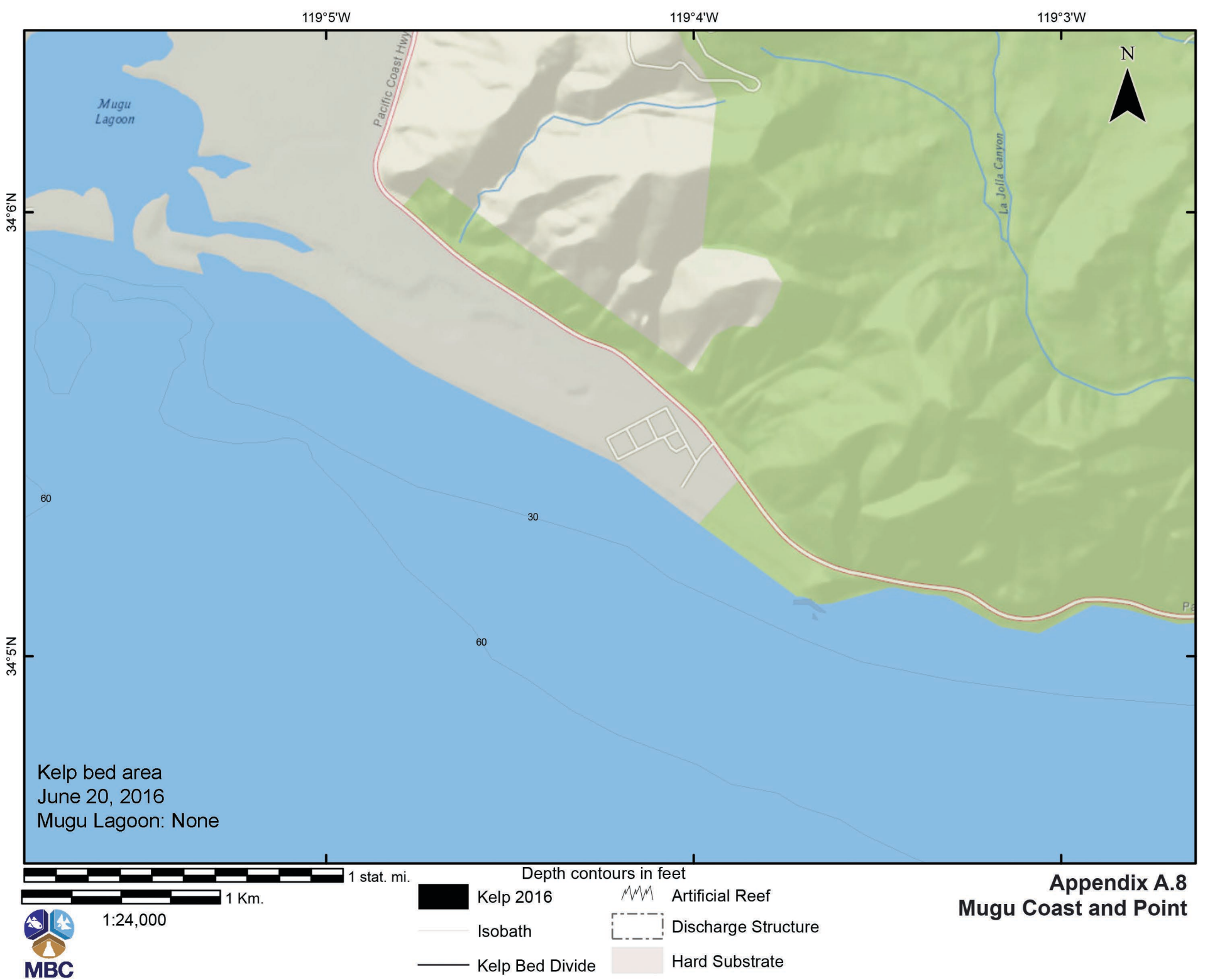


Appendix A.5
Port Hueneme Beach

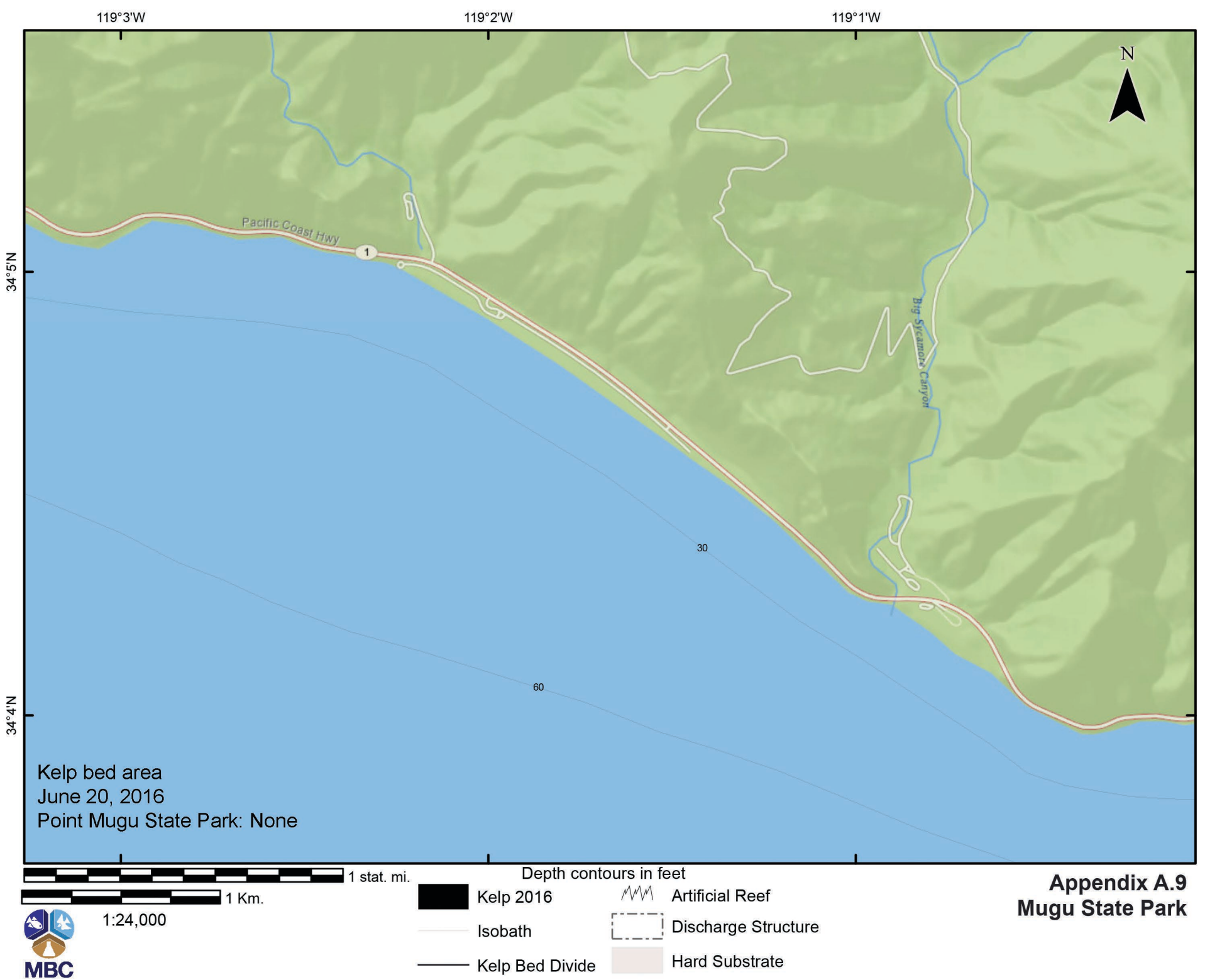

119°11'W
119°10'W
119°9'W
34°7'N
Ormond Beach
Generating Station
N
30
60
Kelp bed area
June 20, 2016
Ormond Beach: None
1 stat. mi.
1 Km.
1:24,000
Depth contours in feet
Kelp 2016
Isobath
Kelp Bed Divide
Artificial Reef
Discharge Structure
Hard Substrate
MBC
Appendix A.6
Ormond Beach



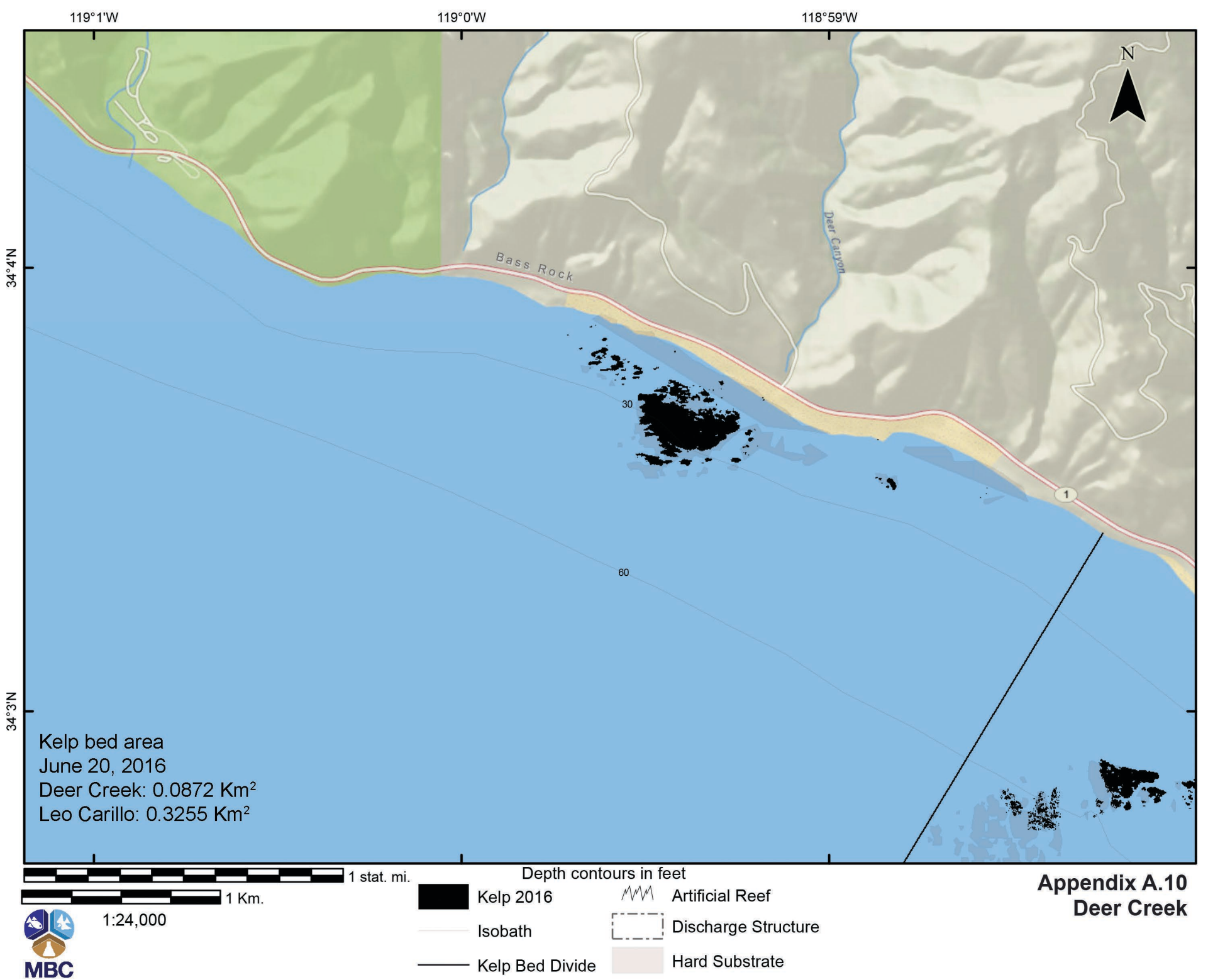
Appendix A.7
Mugu Lagoon/ Base



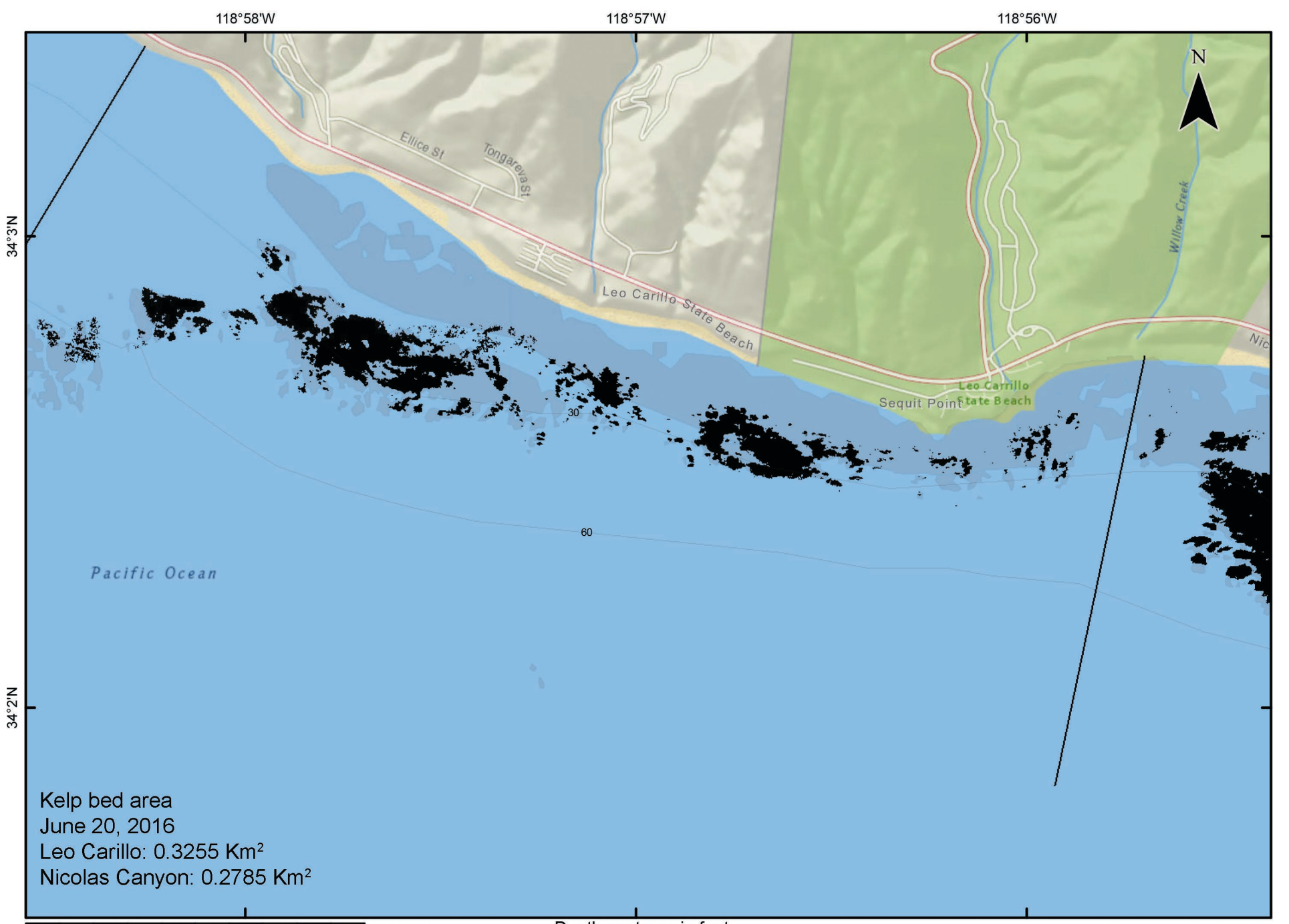
Appendix A.8
Mugu Coast and Point



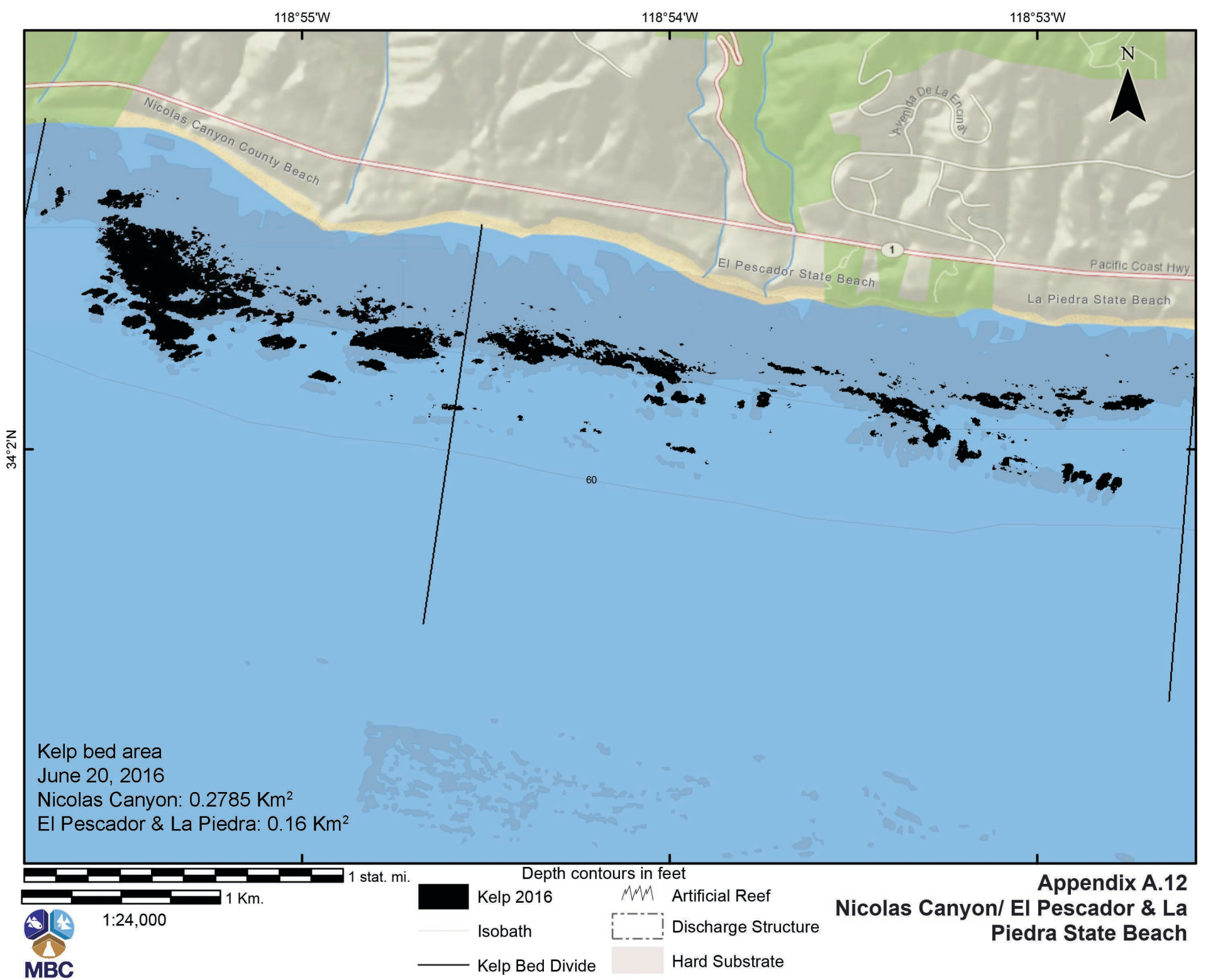
Appendix A.9
Mugu State Park



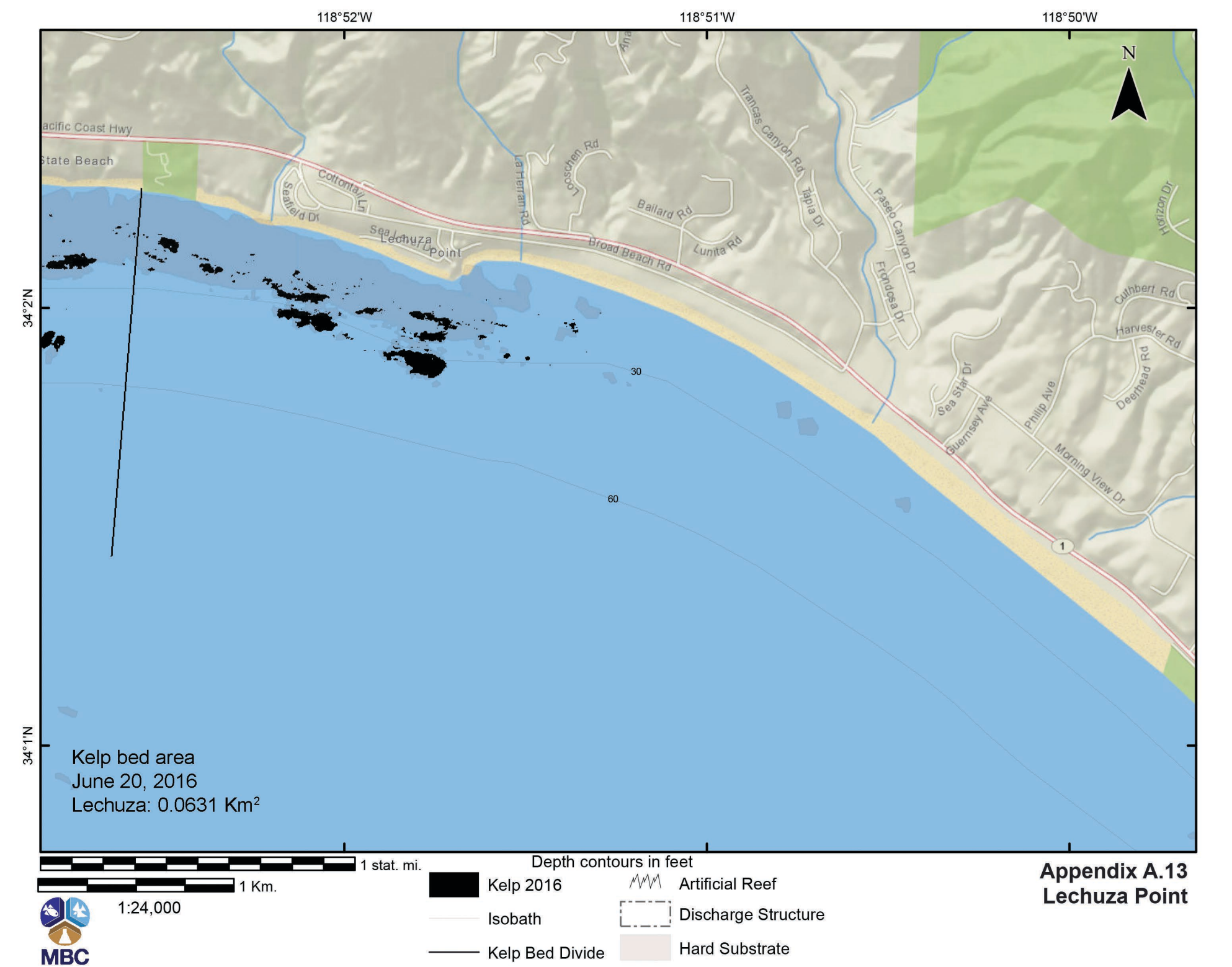
Appendix A.10
Deer Creek



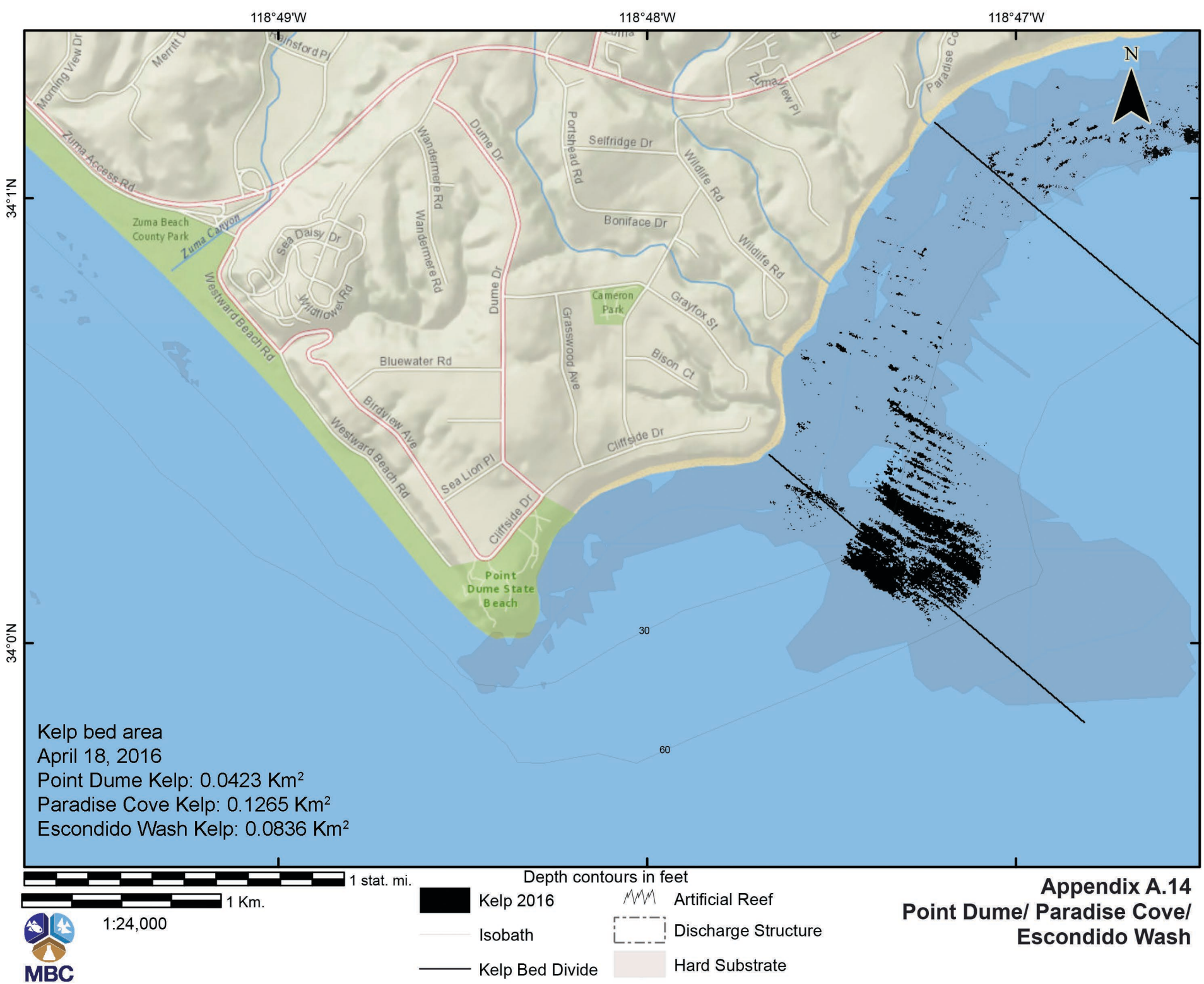
Appendix A.11
Leo Carillo State Beach/ Sequit Point



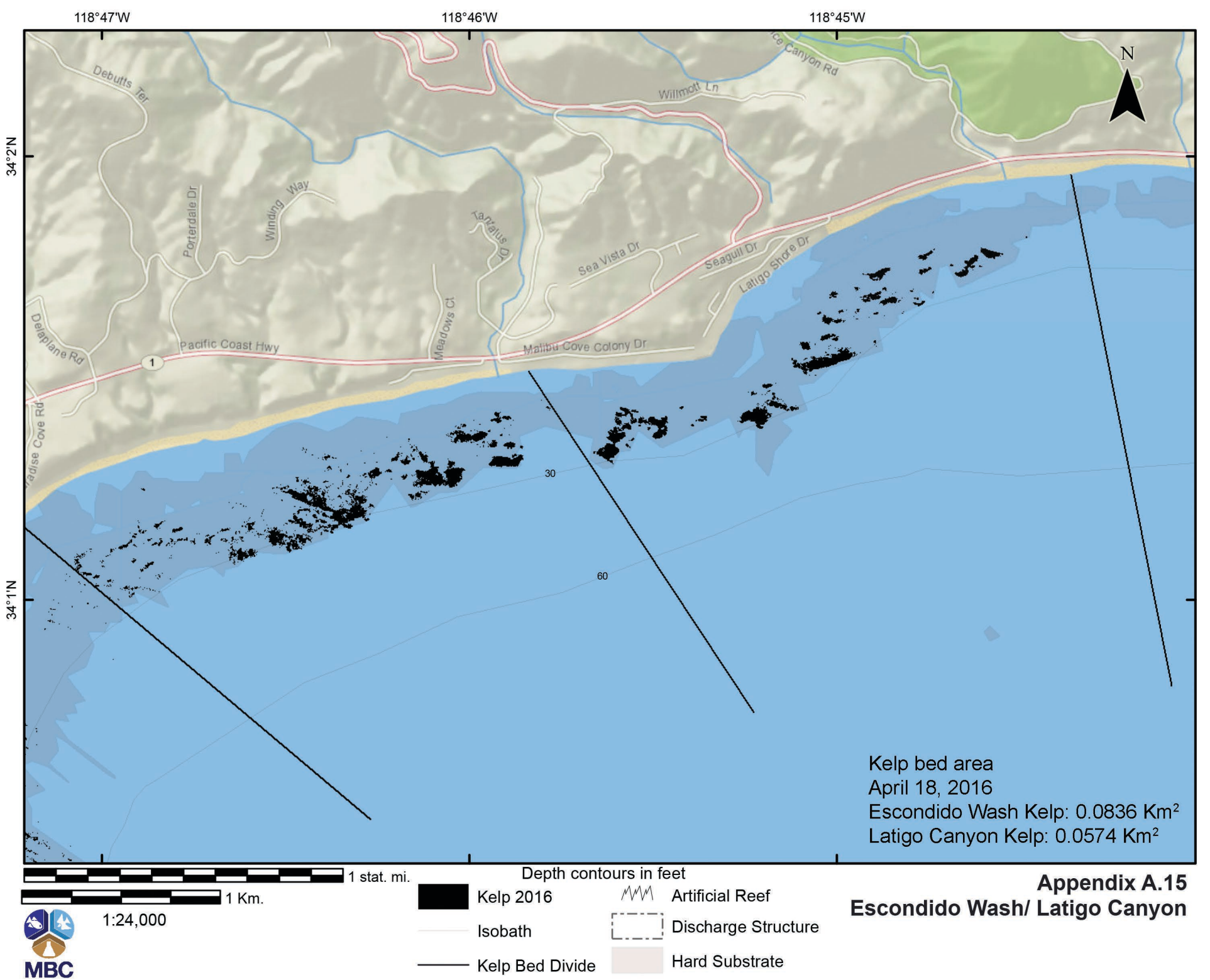
Appendix A.12
Nicolas Canyon/ El Pescador & La Piedra State Beach



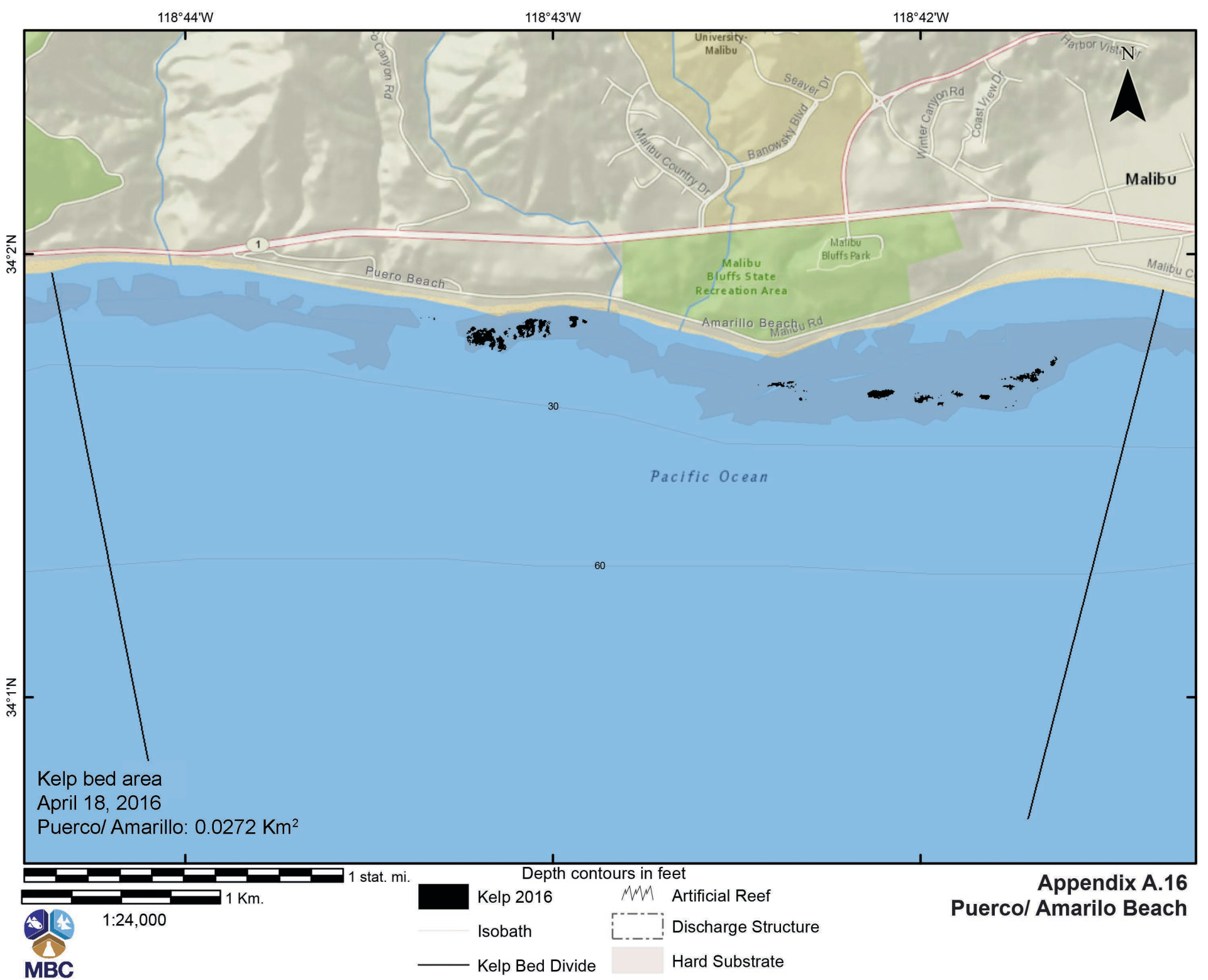
Appendix A.13
Lechuza Point



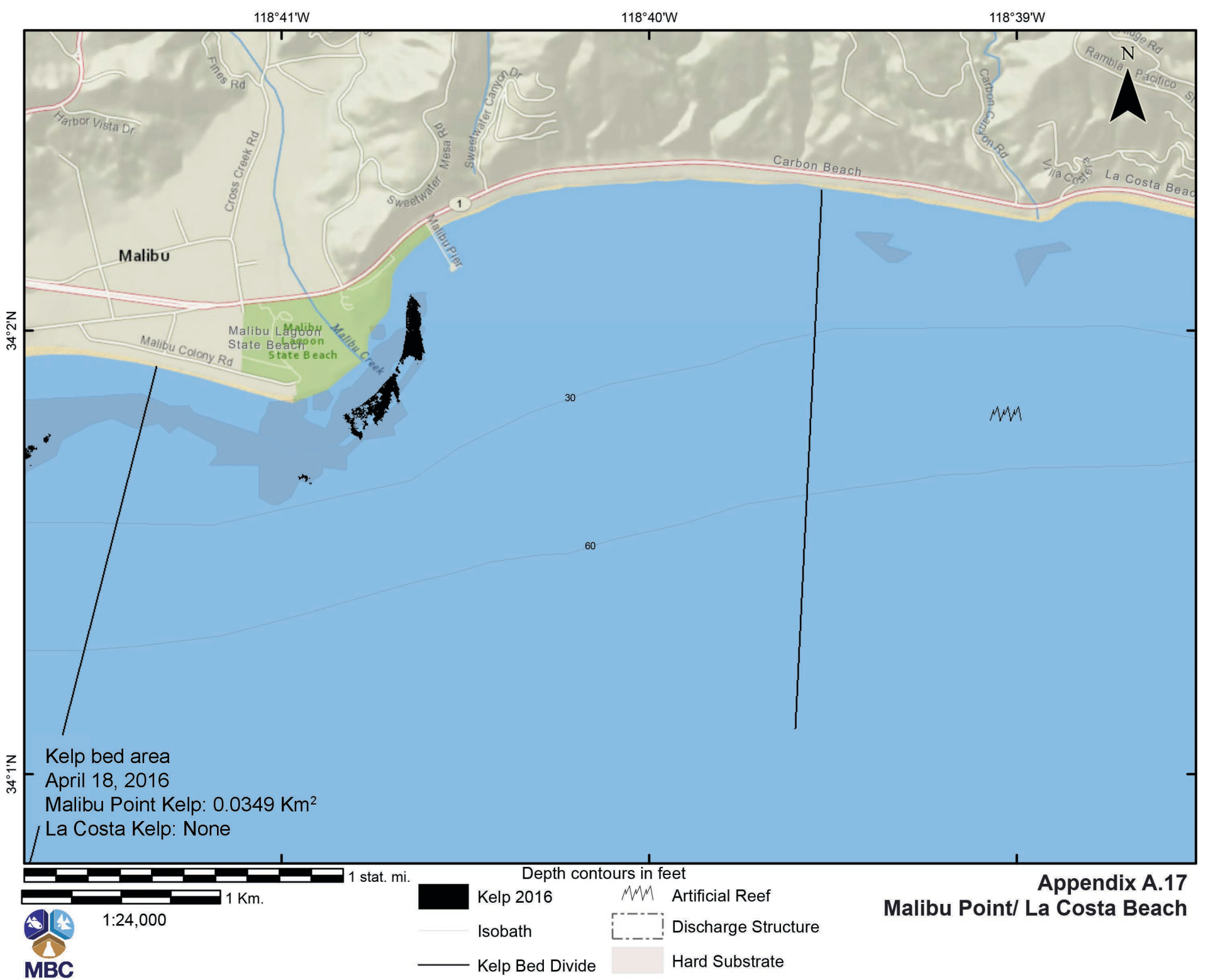
Appendix A.14
Point Dume/ Paradise Cove/ Escondido Wash



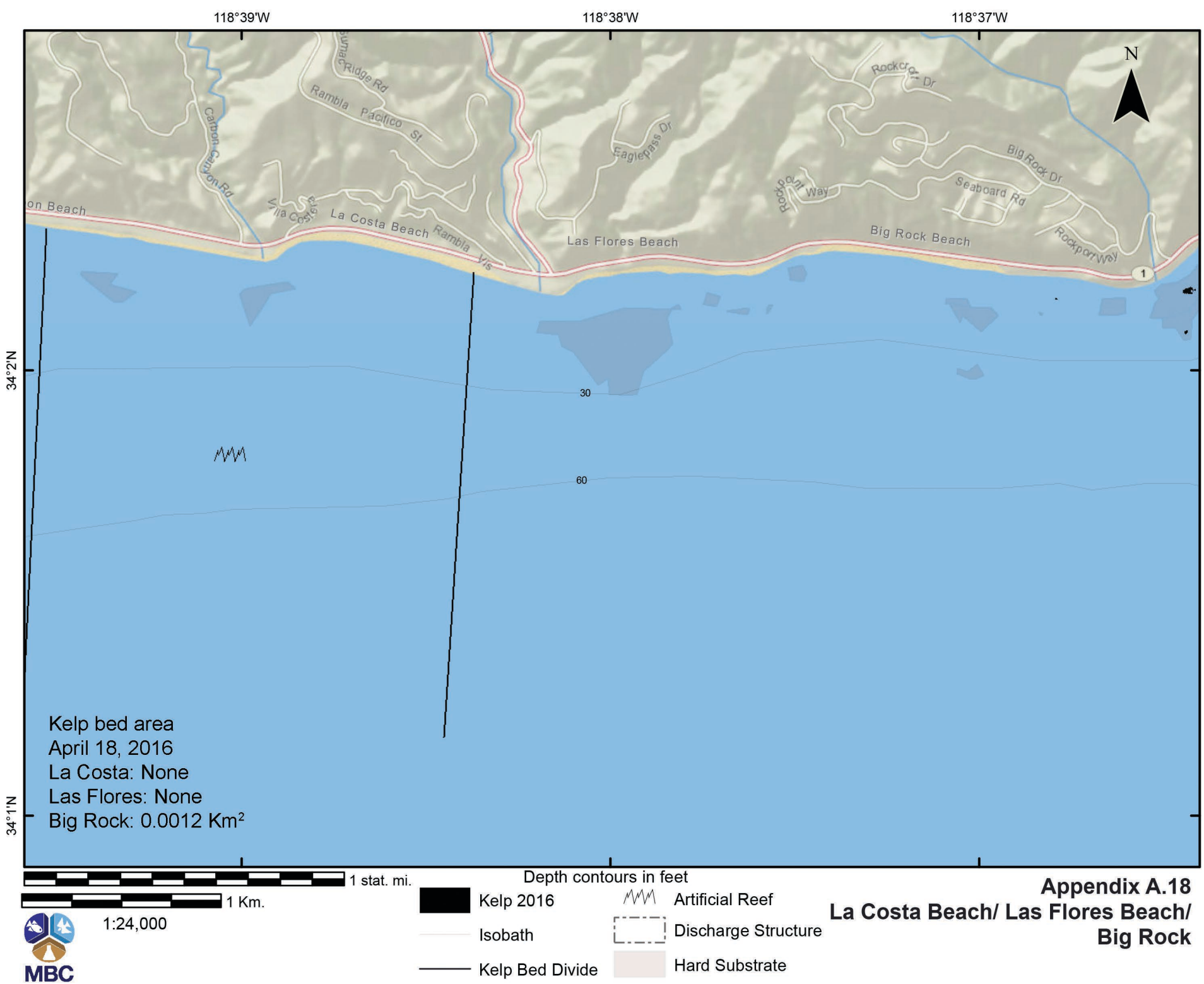
Appendix A.15
Escondido Wash/ Latigo Canyon



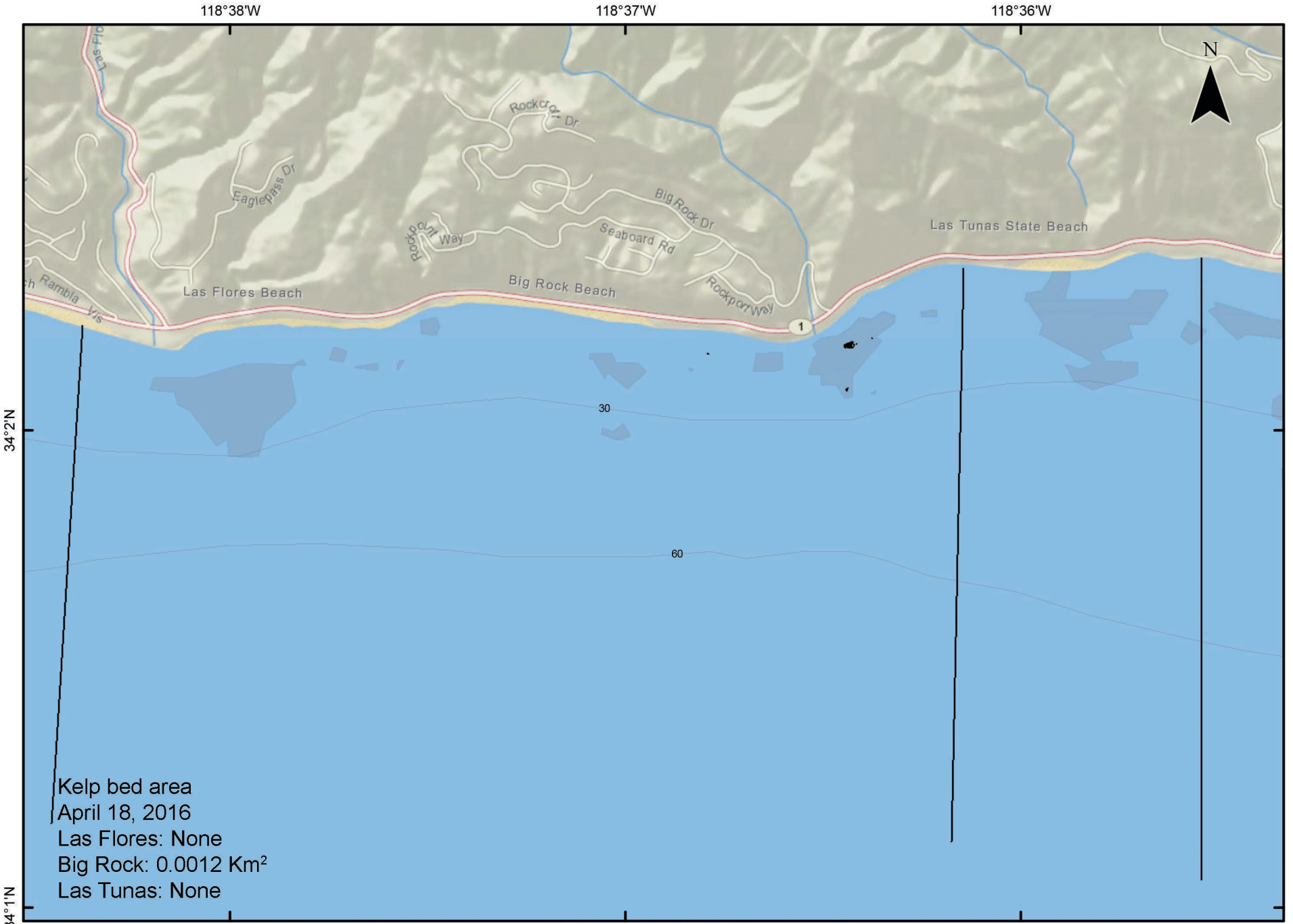
Appendix A.16
Puerco/ Amarilo Beach



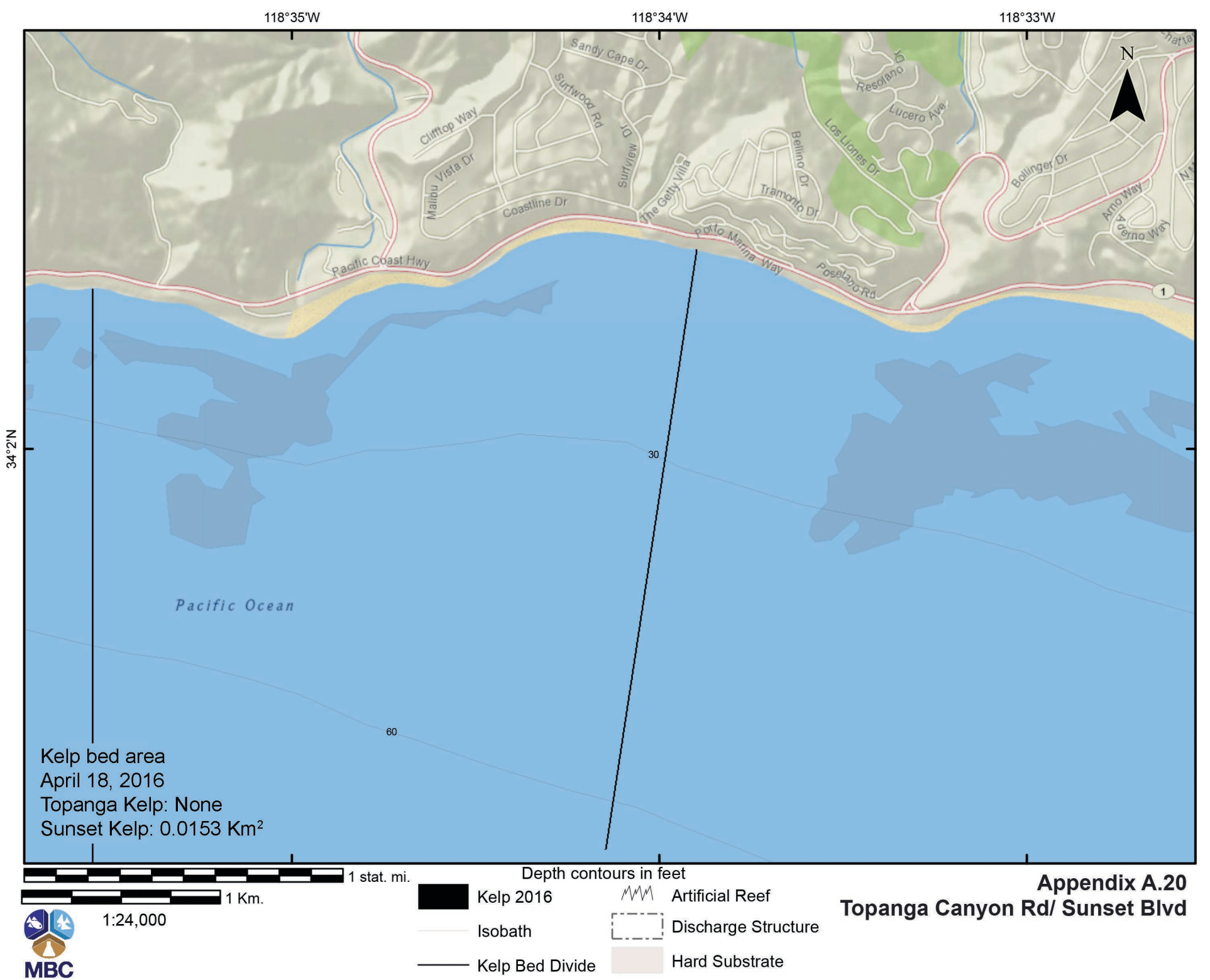
Appendix A.17
Malibu Point/ La Costa Beach



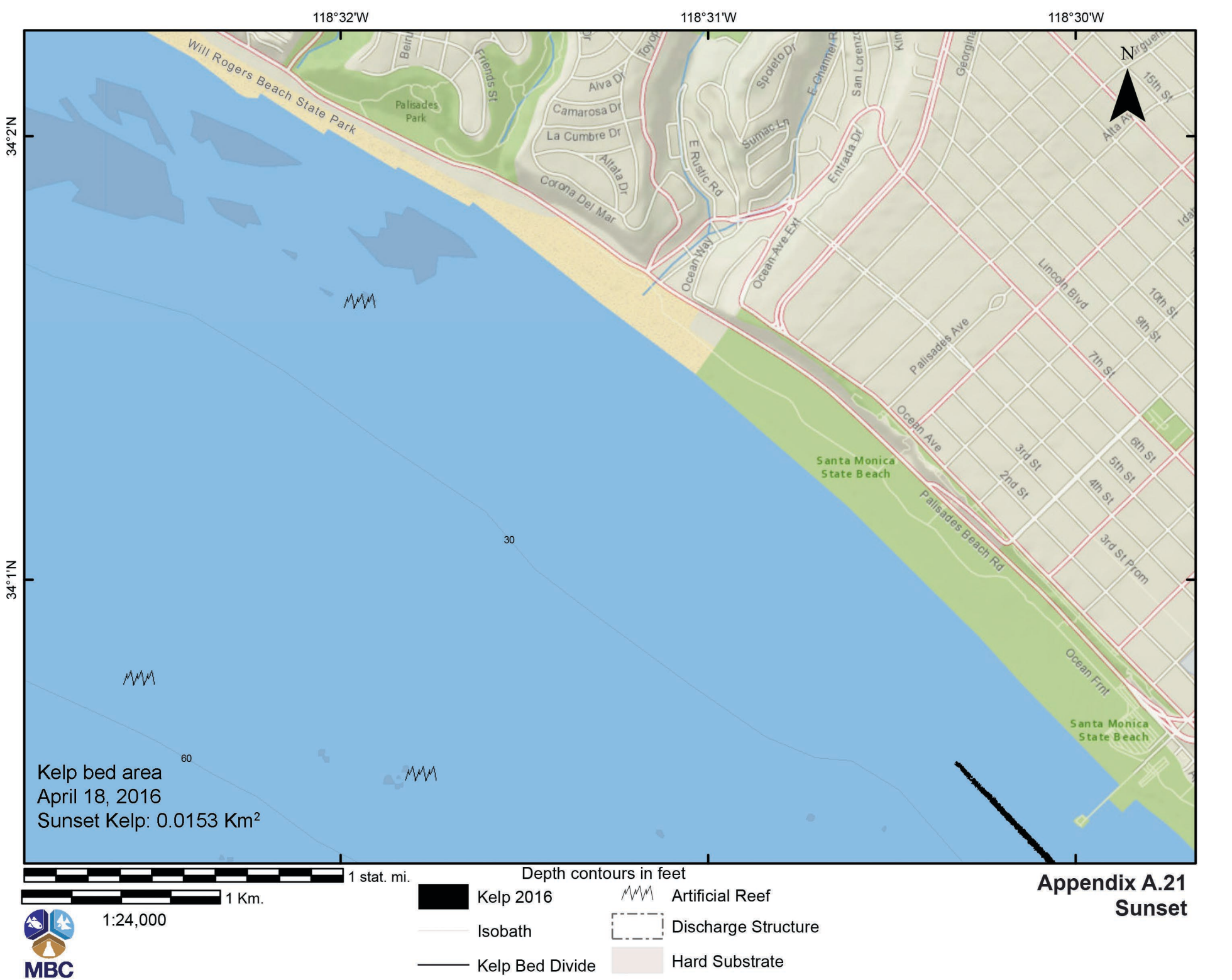
Appendix A.18
La Costa Beach/ Las Flores Beach/ Big Rock

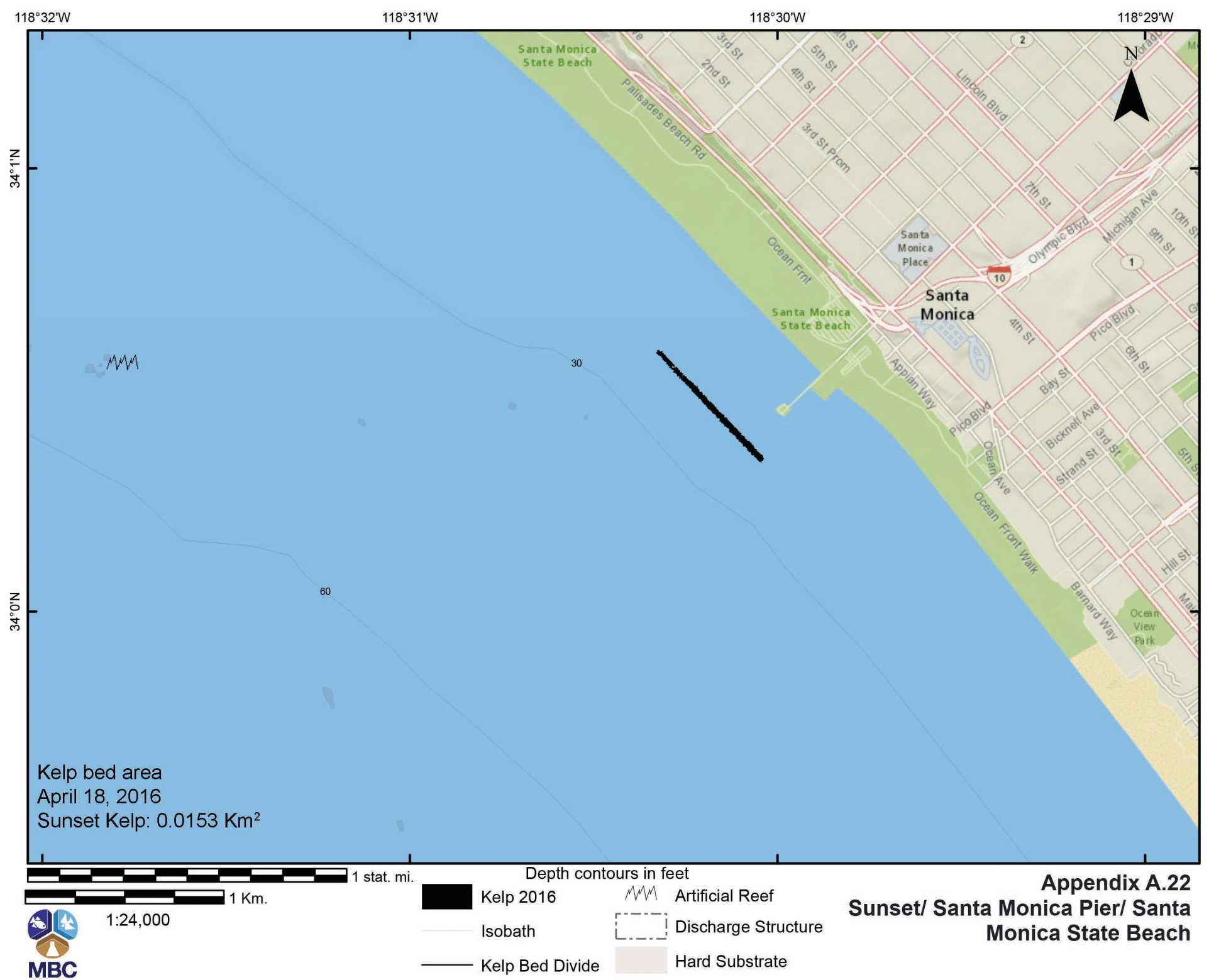


Appendix A.19
Las Flores Beach/ Big Rock Beach/
Las Tunas State Beach

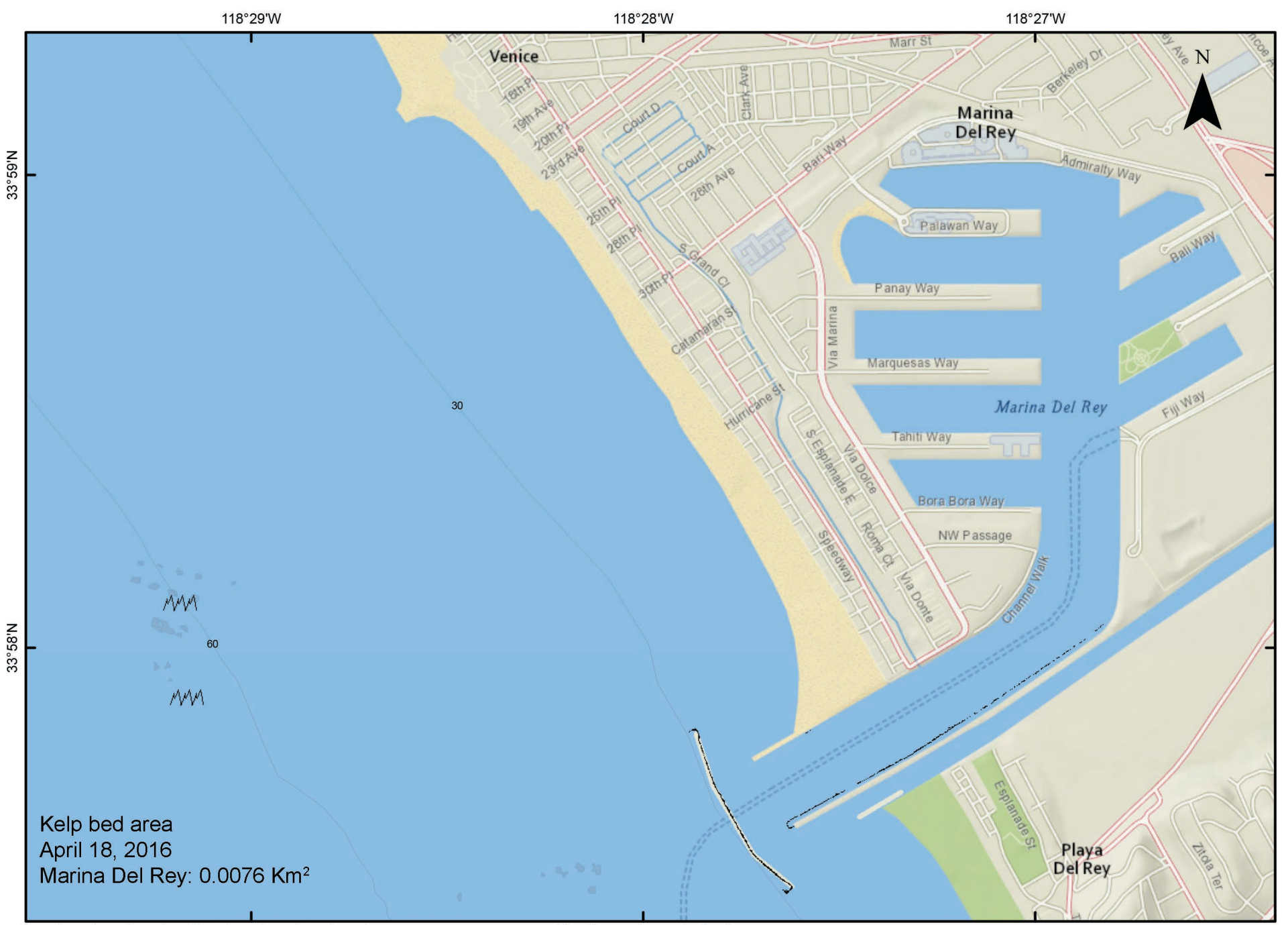


Appendix A.20
Topanga Canyon Rd/ Sunset Blvd

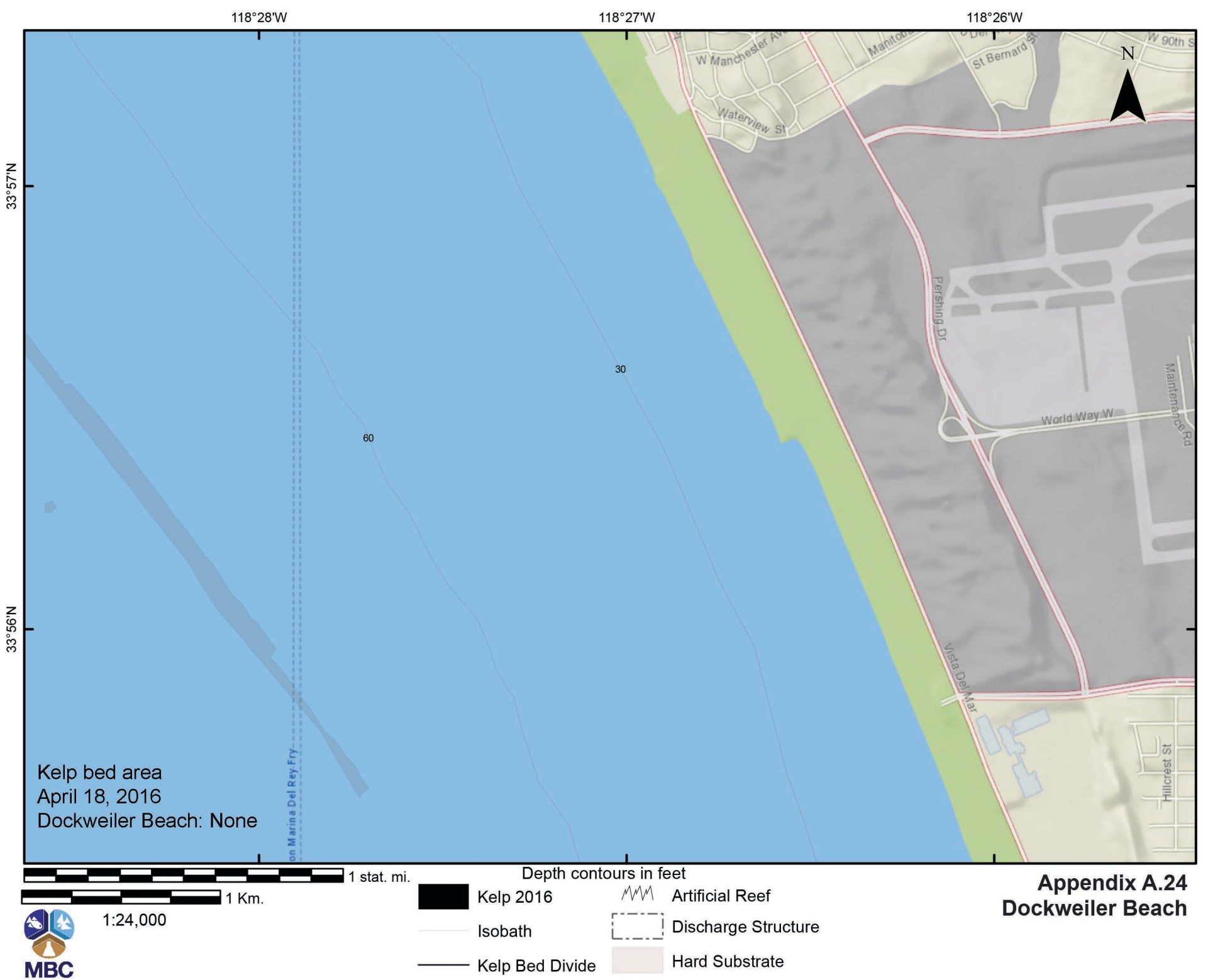

118°32'W
118°31'W
118°30'W
34°2'N
34°1'N
N
Will Rogers Beach State Park
Palisades Park
Friends St
Alva Dr
Camarosa Dr
La Cumbre Dr
Altata Dr
Corona Del Mar
E Rustic Rd
Ocean Way
Ocean Ave Ext
Sumac Ln
Spoleto Dr
E Channel Rd
San Lorenzo
Entrada Dr
Georgina
15th St
Alta Ave
Lincoln Blvd
10th St
9th St
7th St
Palisades Ave
Ocean Ave
6th St
5th St
4th St
3rd St
2nd St
Santa Monica State Beach
Palisades Beach Rd
3rd St Prom
Ocean Frnt
Santa Monica State Beach
30
60
Kelp bed area
April 18, 2016
Sunset Kelp: 0.0153 Km²
1 stat. mi.
1 Km.
1:24,000
MBC
Depth contours in feet
Kelp 2016
Isobath
Kelp Bed Divide
Artificial Reef
Discharge Structure
Hard Substrate
Appendix A.21
Sunset

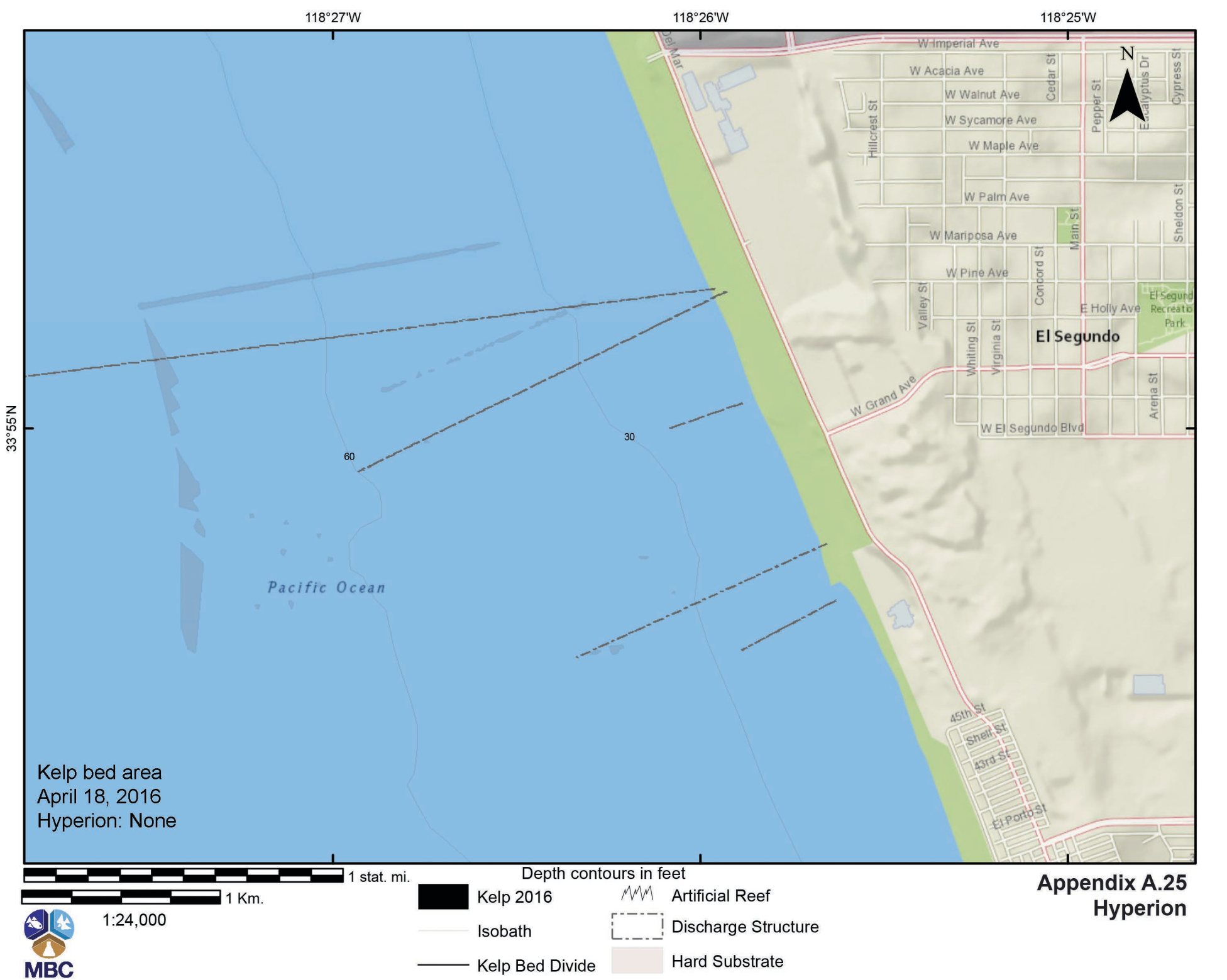


Appendix A.22
Sunset/ Santa Monica Pier/ Santa Monica State Beach

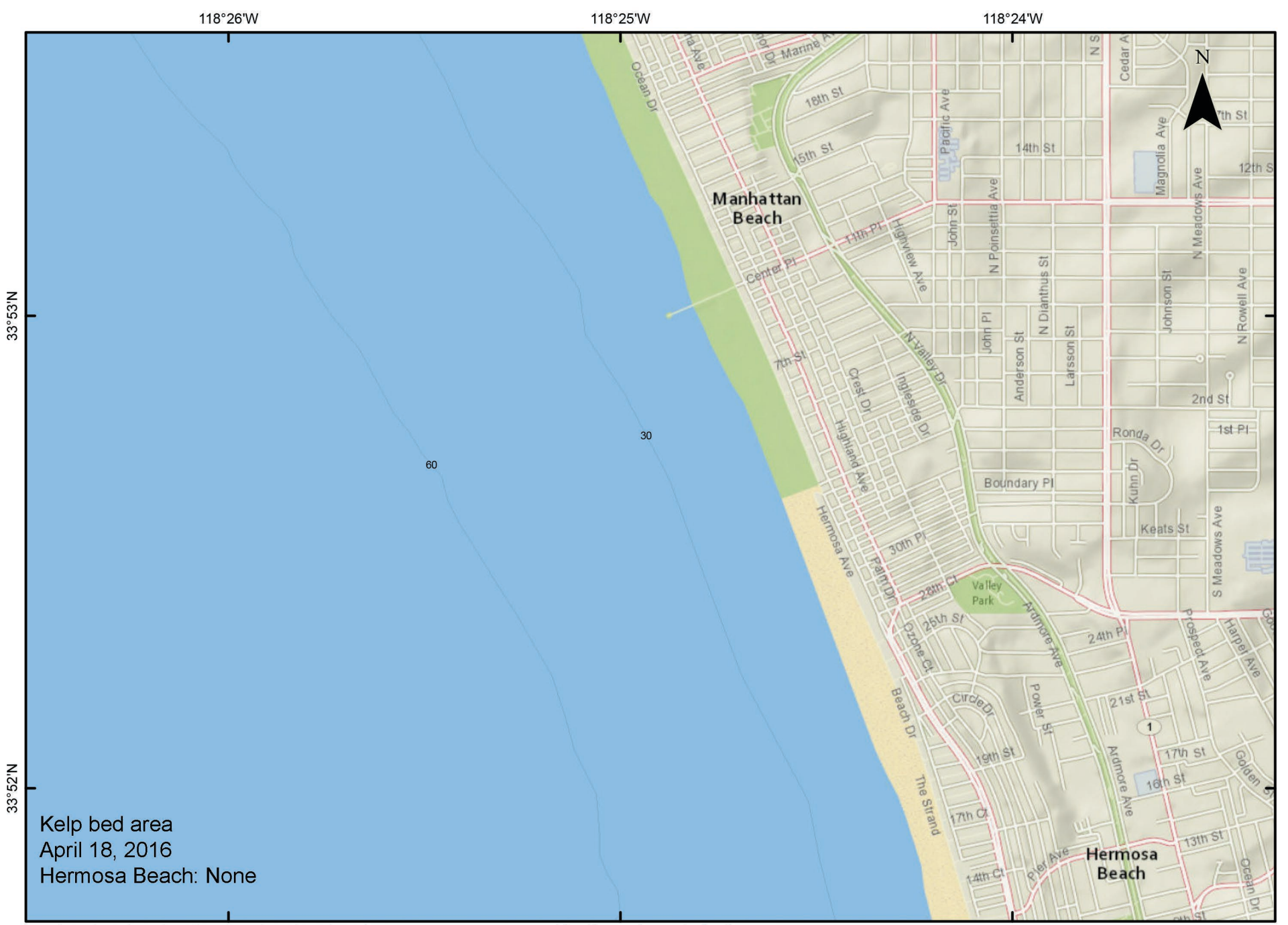


Appendix A.23
Marina del Rey

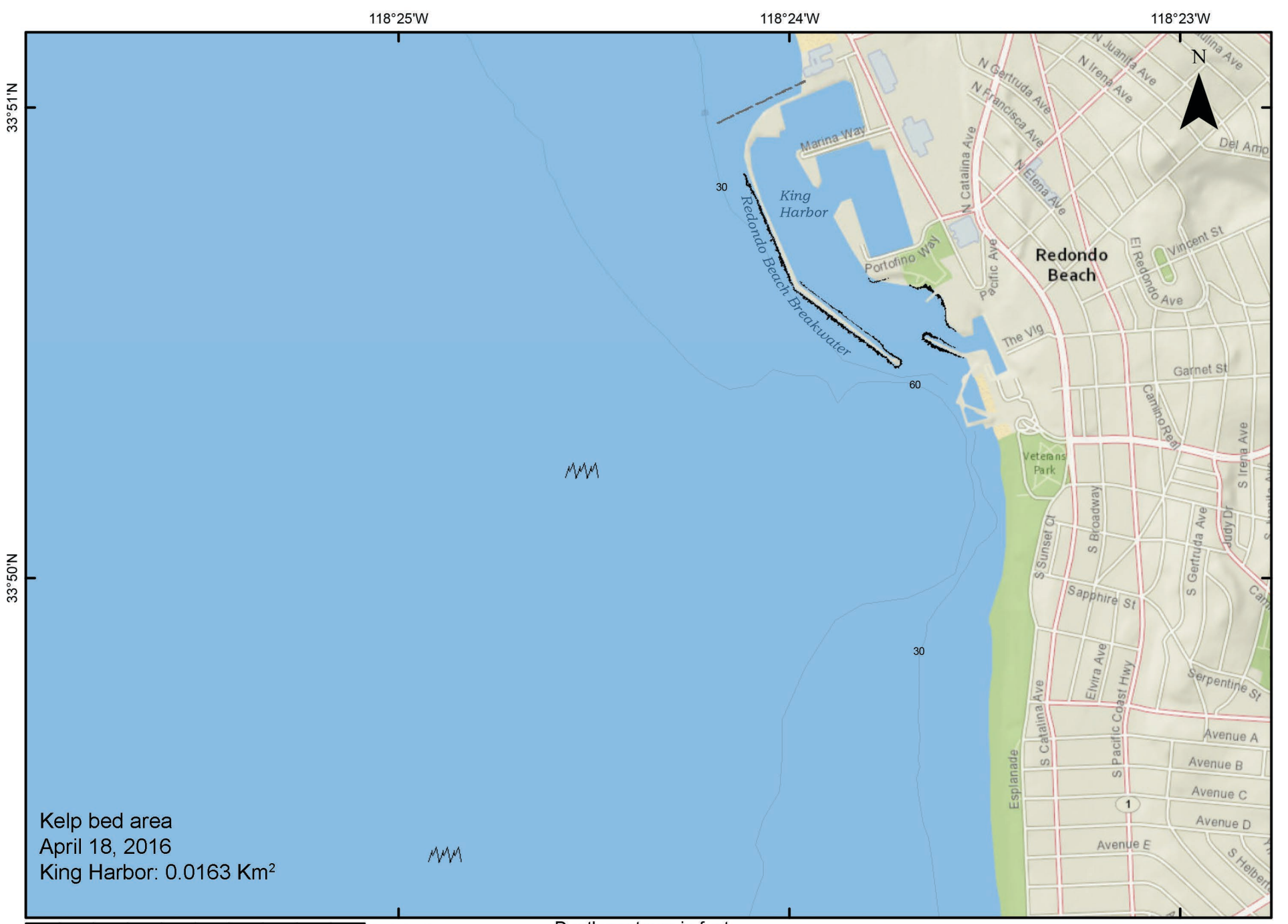

118°28'W
118°27'W
118°26'W
33°57'N
33°56'N
N
W Manchester Ave
Waterview St
St Bernard St
W 90th St
Pershing Dr
World Way W
Maintenance Rd
Vista Del Mar
Hillcrest St
30
60
Kelp bed area
April 18, 2016
Dockweiler Beach: None
1 stat. mi.
1 Km.
1:24,000
MBC
Depth contours in feet
Kelp 2016
Isobath
Kelp Bed Divide
Artificial Reef
Discharge Structure
Hard Substrate
Appendix A.24
Dockweiler Beach



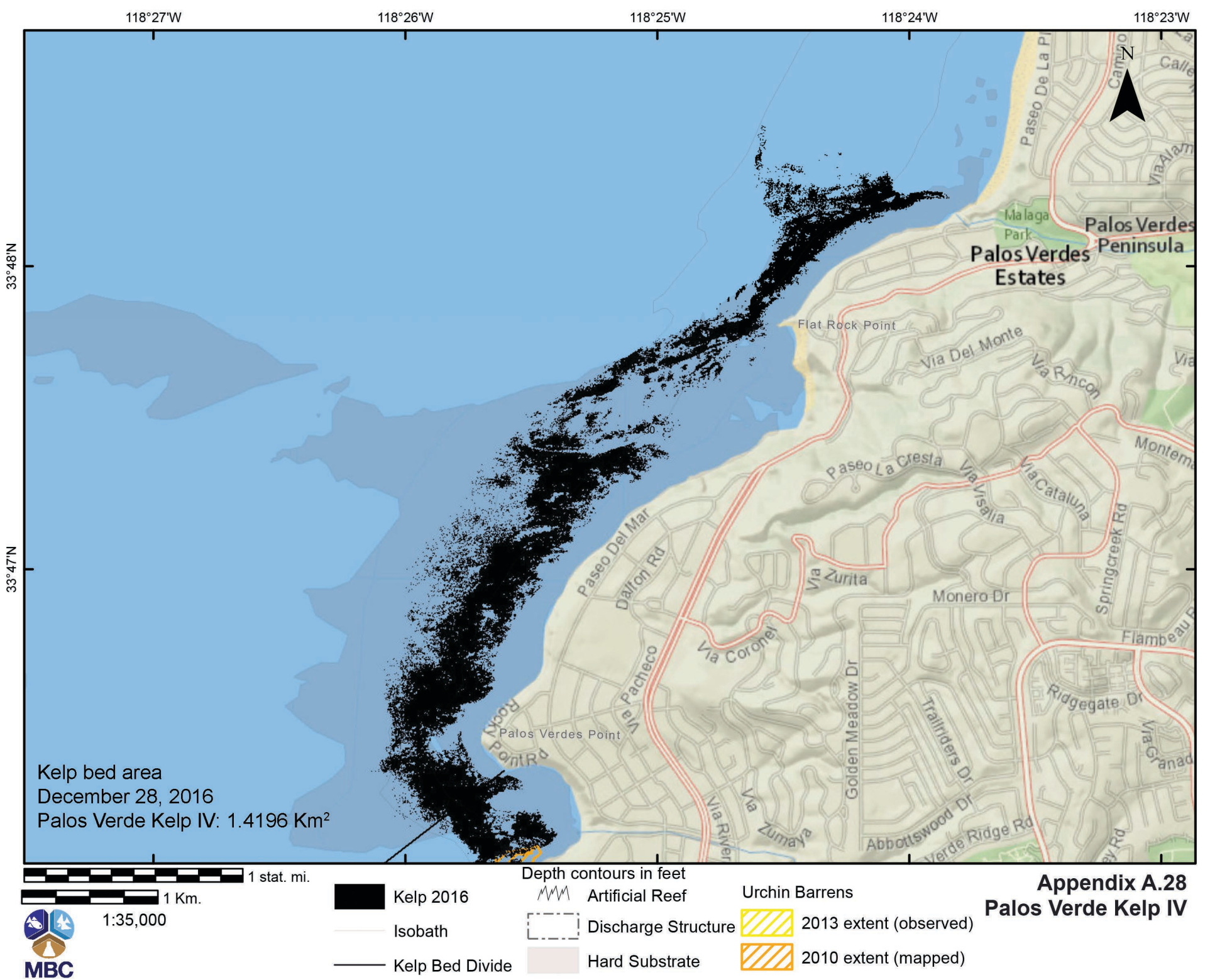
Appendix A.25
Hyperion



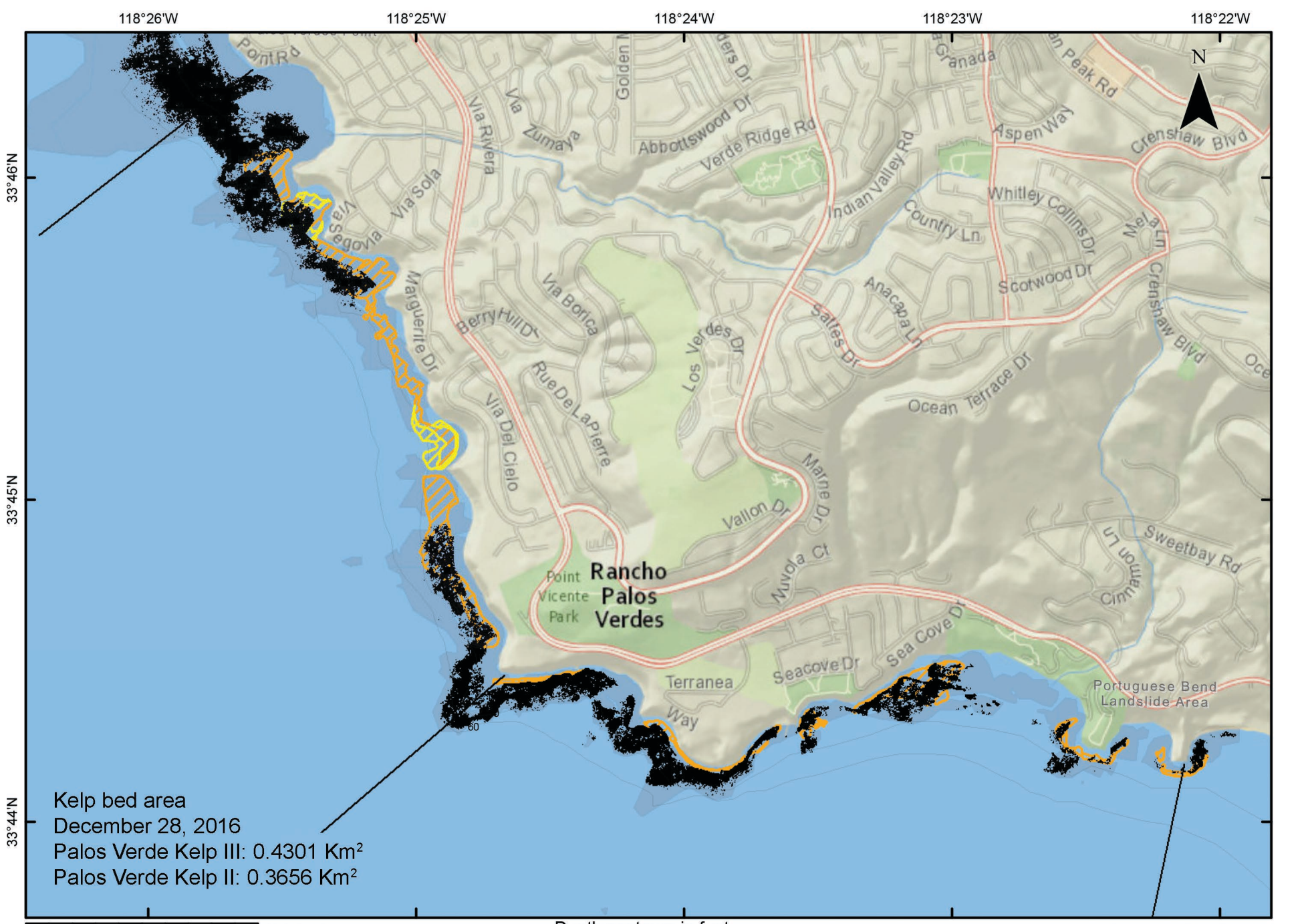
Appendix A.26
Hermosa Beach



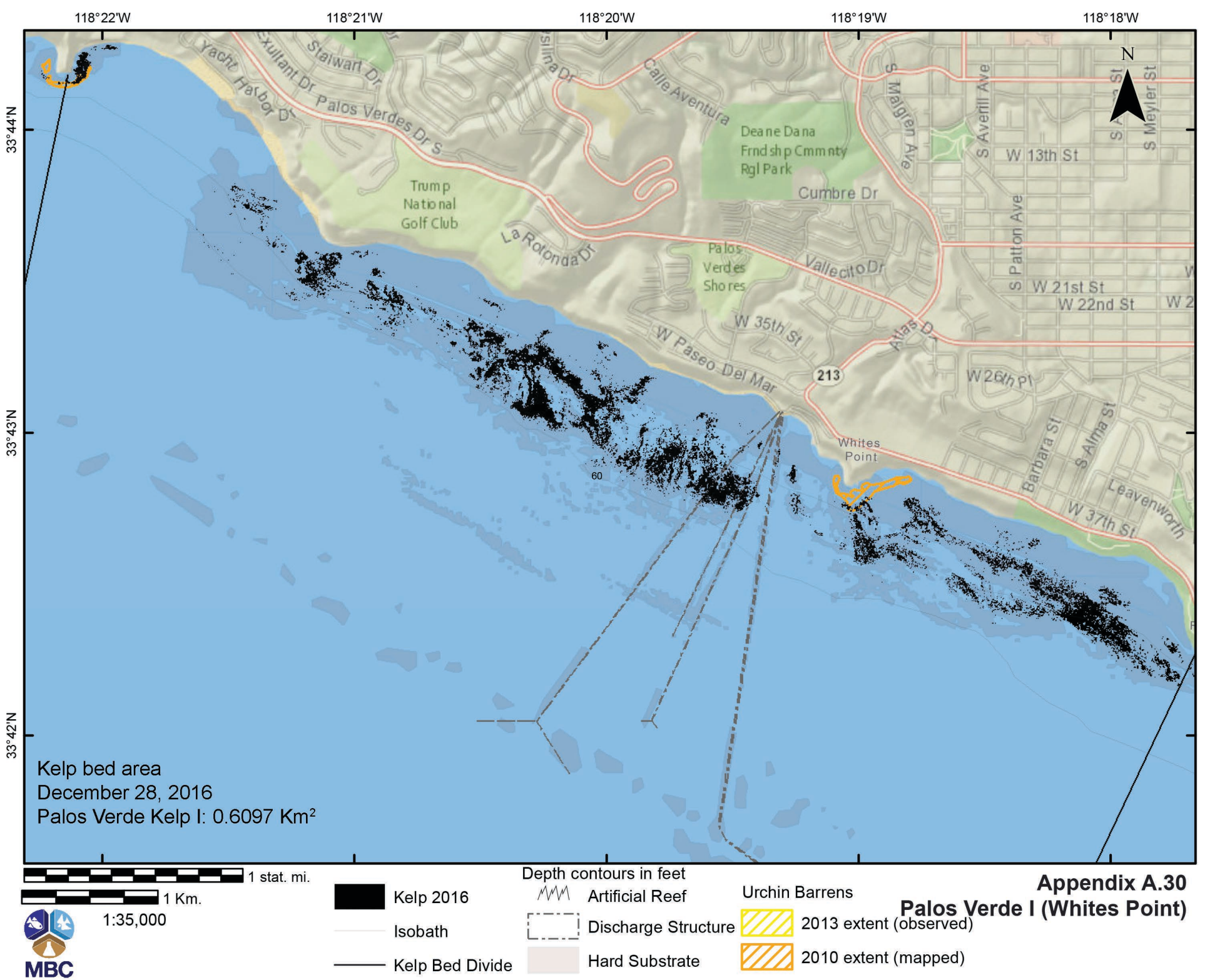
Appendix A.27
King Harbor



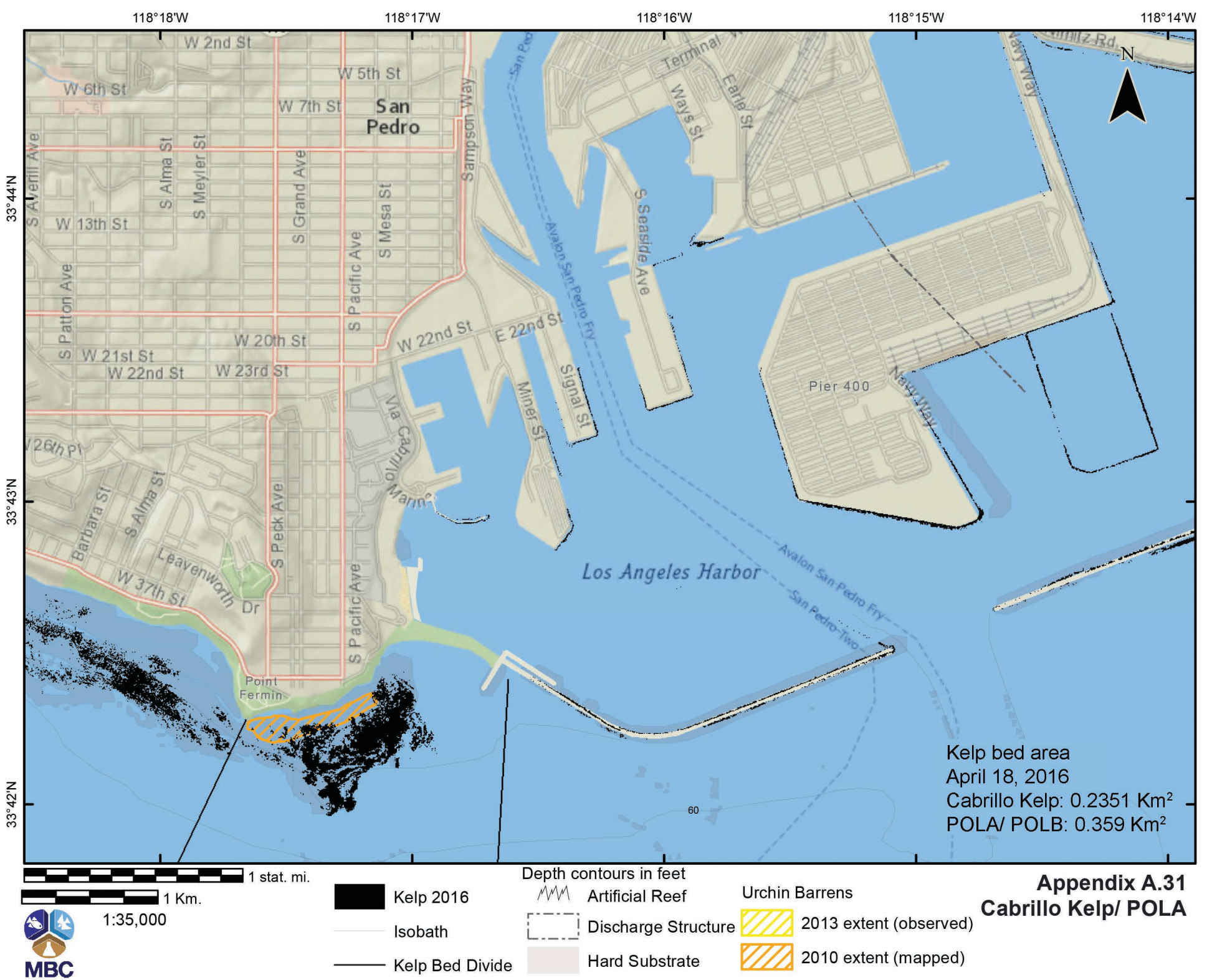
Appendix A.28
Palos Verde Kelp IV



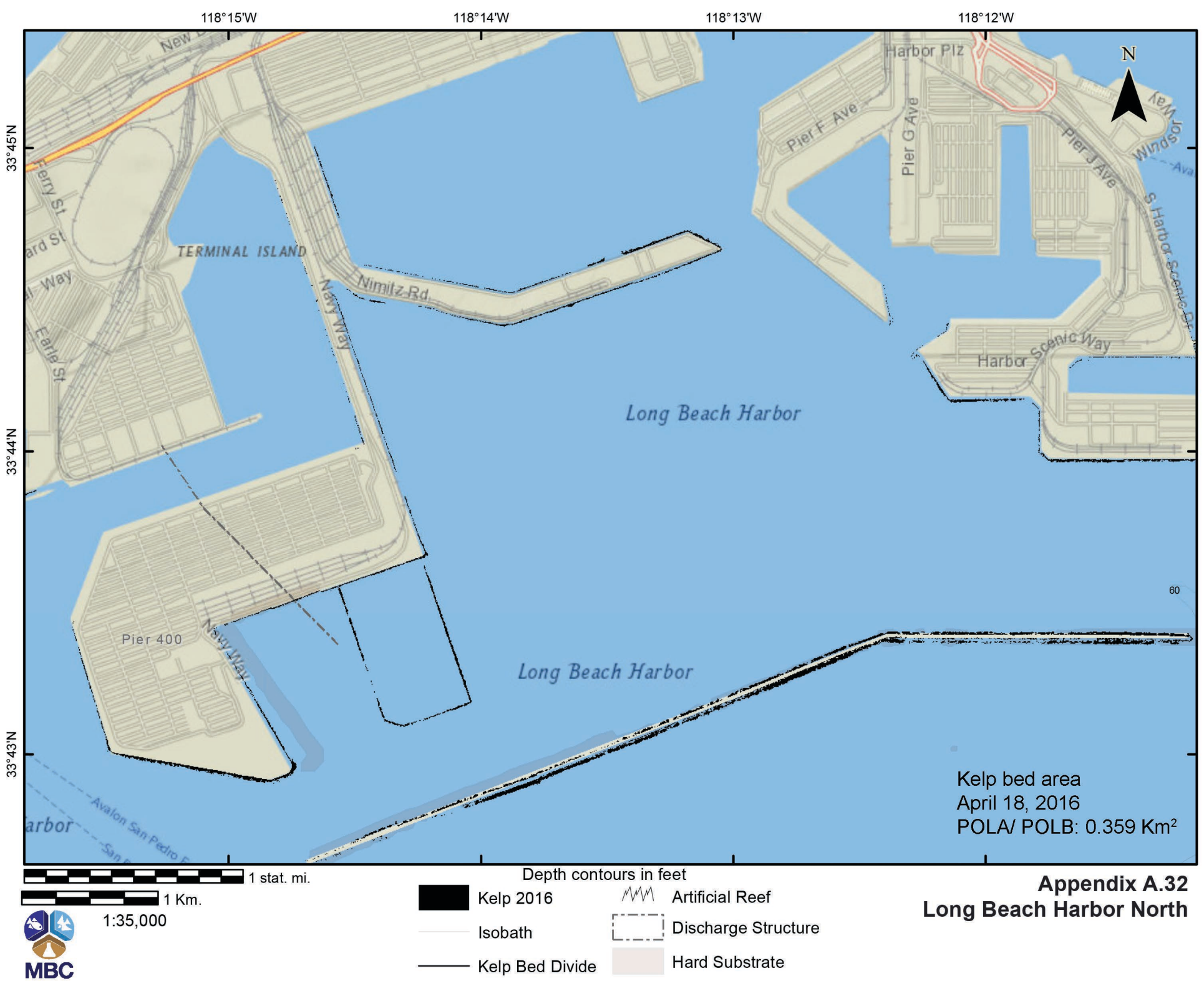
Appendix A.29
Palos Verde III and II (Point Vicente)



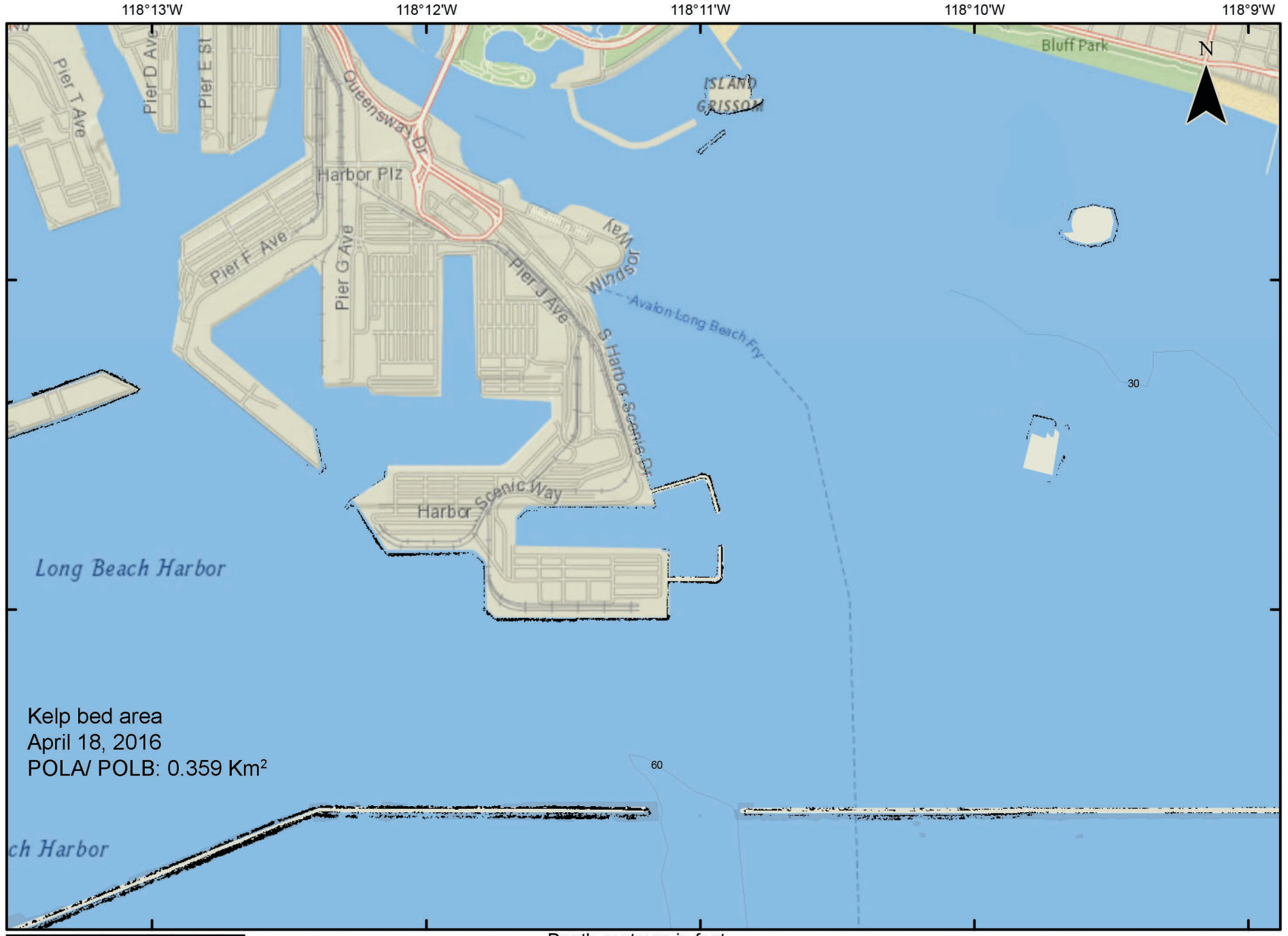
Appendix A.30
Palos Verde I (Whites Point)



Appendix A.31
Cabrillo Kelp/ POLA



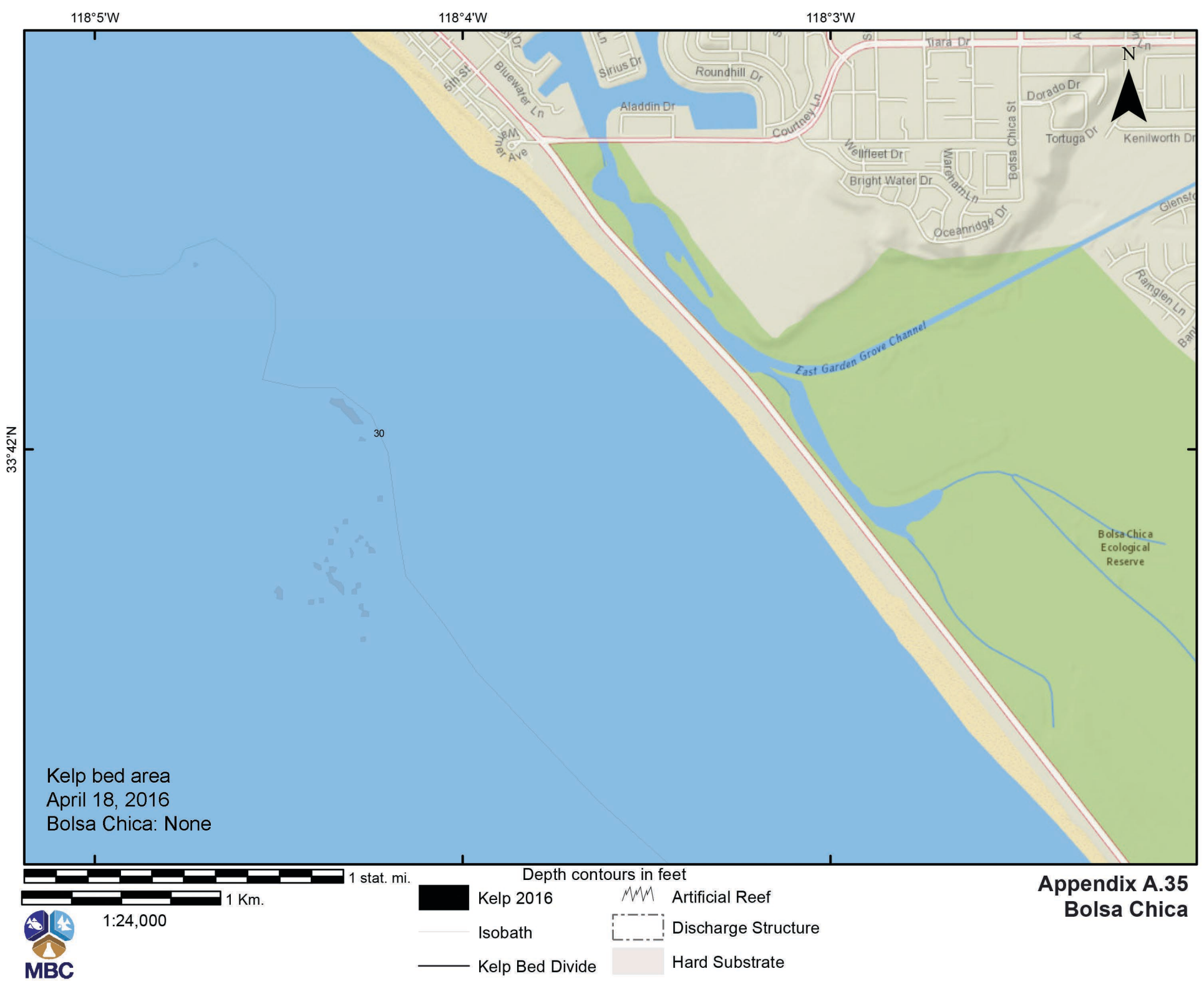
Appendix A.32
Long Beach Harbor North



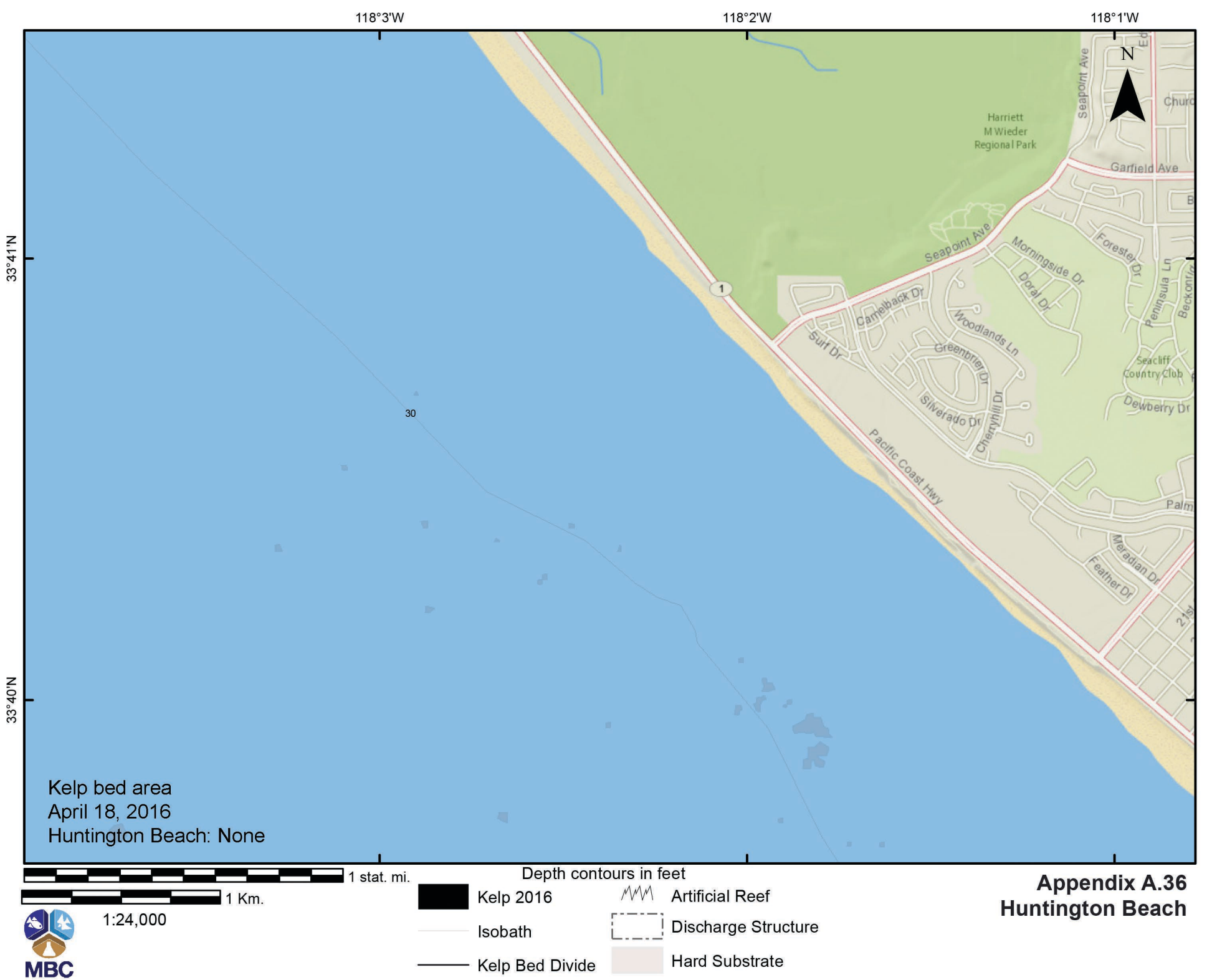
Appendix A.33
Long Beach Harbor Center

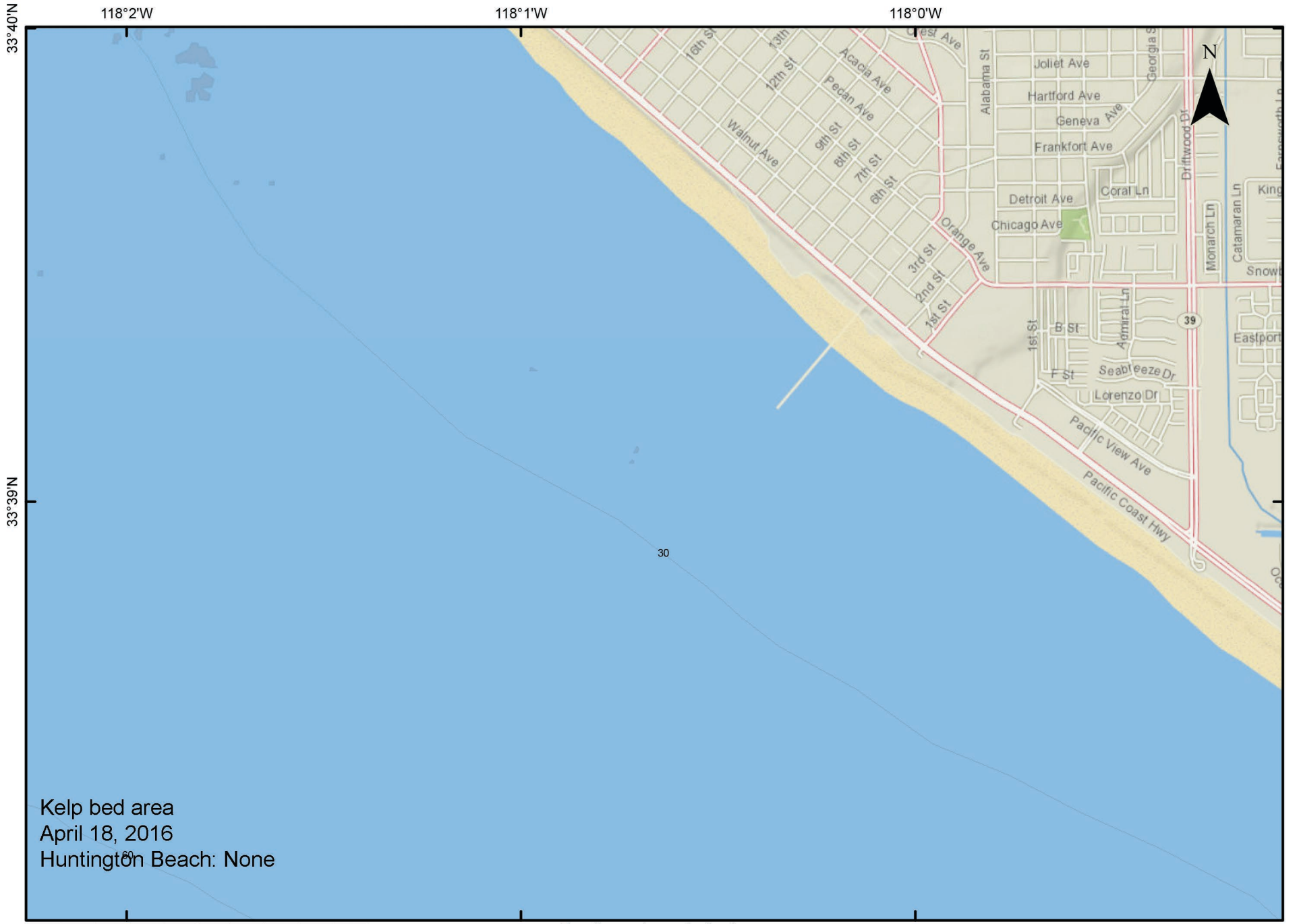


Appendix A.34
Long Beach Harbor South

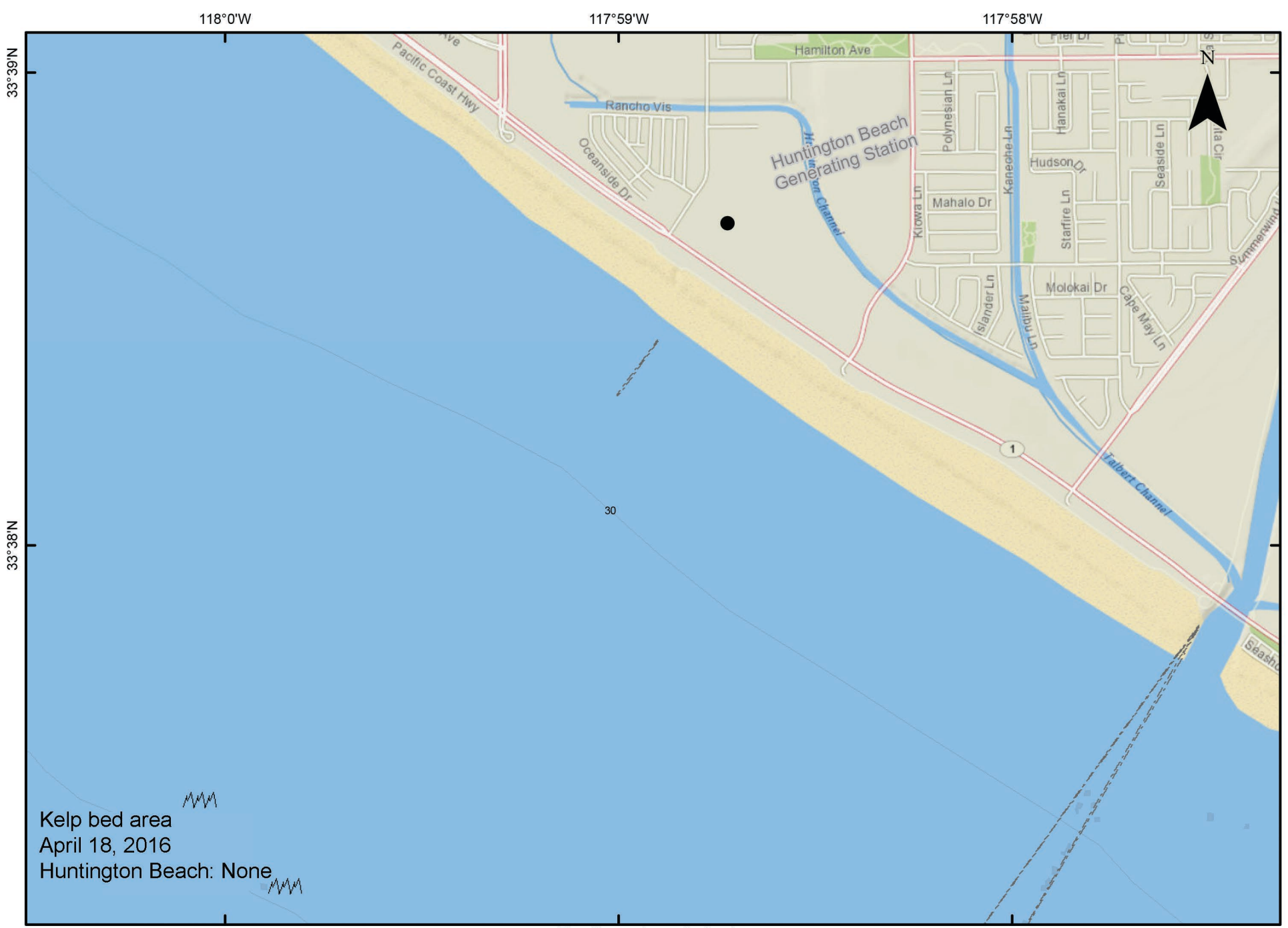


Appendix A.35
Bolsa Chica

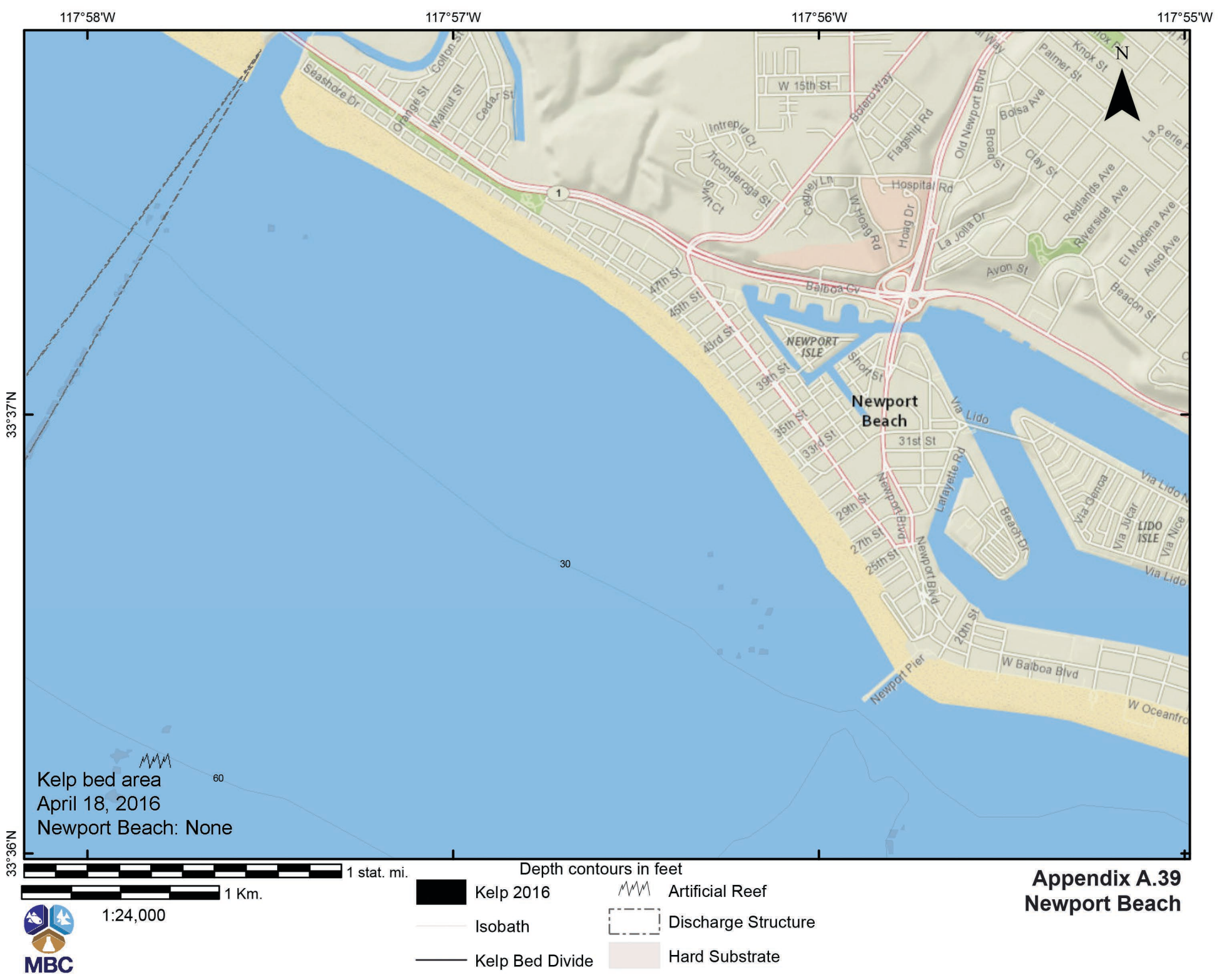

118°3'W
118°2'W
118°1'W
33°41'N
33°40'N
N
Harriett
M Wieder
Regional Park
Seapoint Ave
Garfield Ave
Seapoint Ave
Morningside Dr
Doral Dr
Forester Dr
Peninsula Ln
Camelback Dr
Surf Dr
Woodlands Ln
Greenbrier Dr
Silverado Dr
Cherryhill Dr
Seacliff
Country Club
Dewberry Dr
Pacific Coast Hwy
Meridian Dr
Feather Dr
1
30
Kelp bed area
April 18, 2016
Huntington Beach: None
1 stat. mi.
1 Km.
1:24,000
MBC
Depth contours in feet
Kelp 2016
Isobath
Kelp Bed Divide
Artificial Reef
Discharge Structure
Hard Substrate
Appendix A.36
Huntington Beach



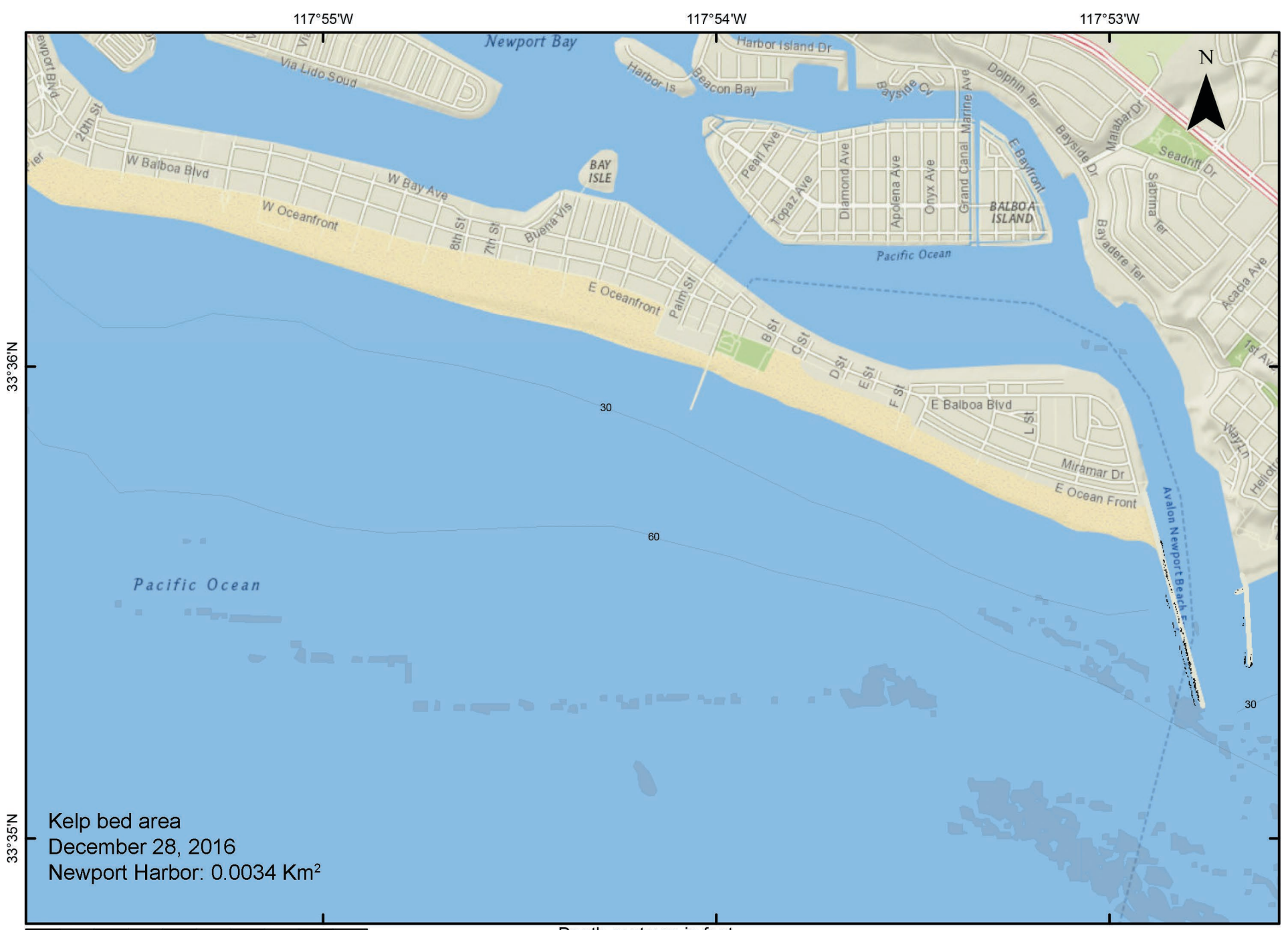
Appendix A.37
Huntington Beach Pier



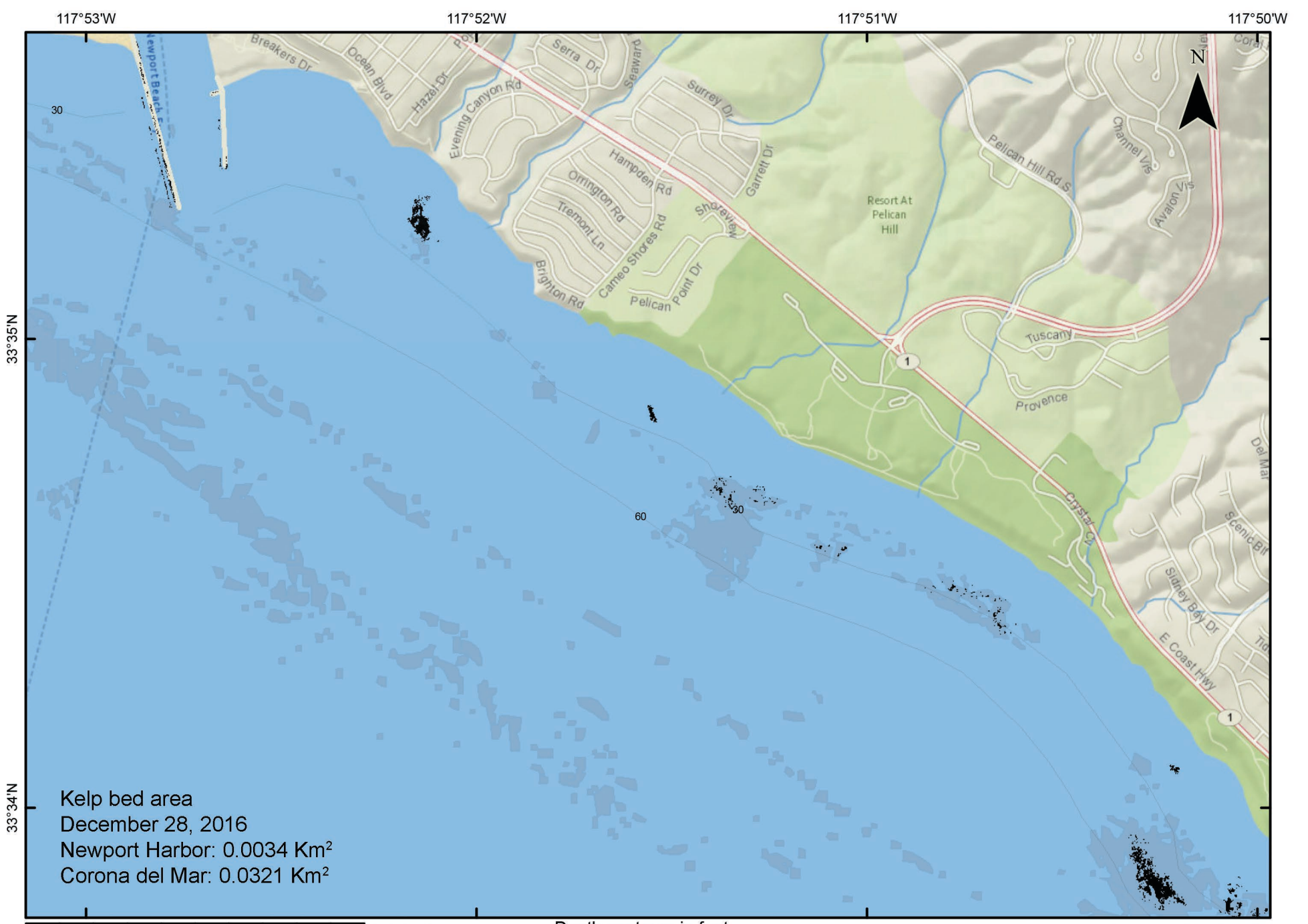
Appendix A.38
Huntington Beach Generating Station



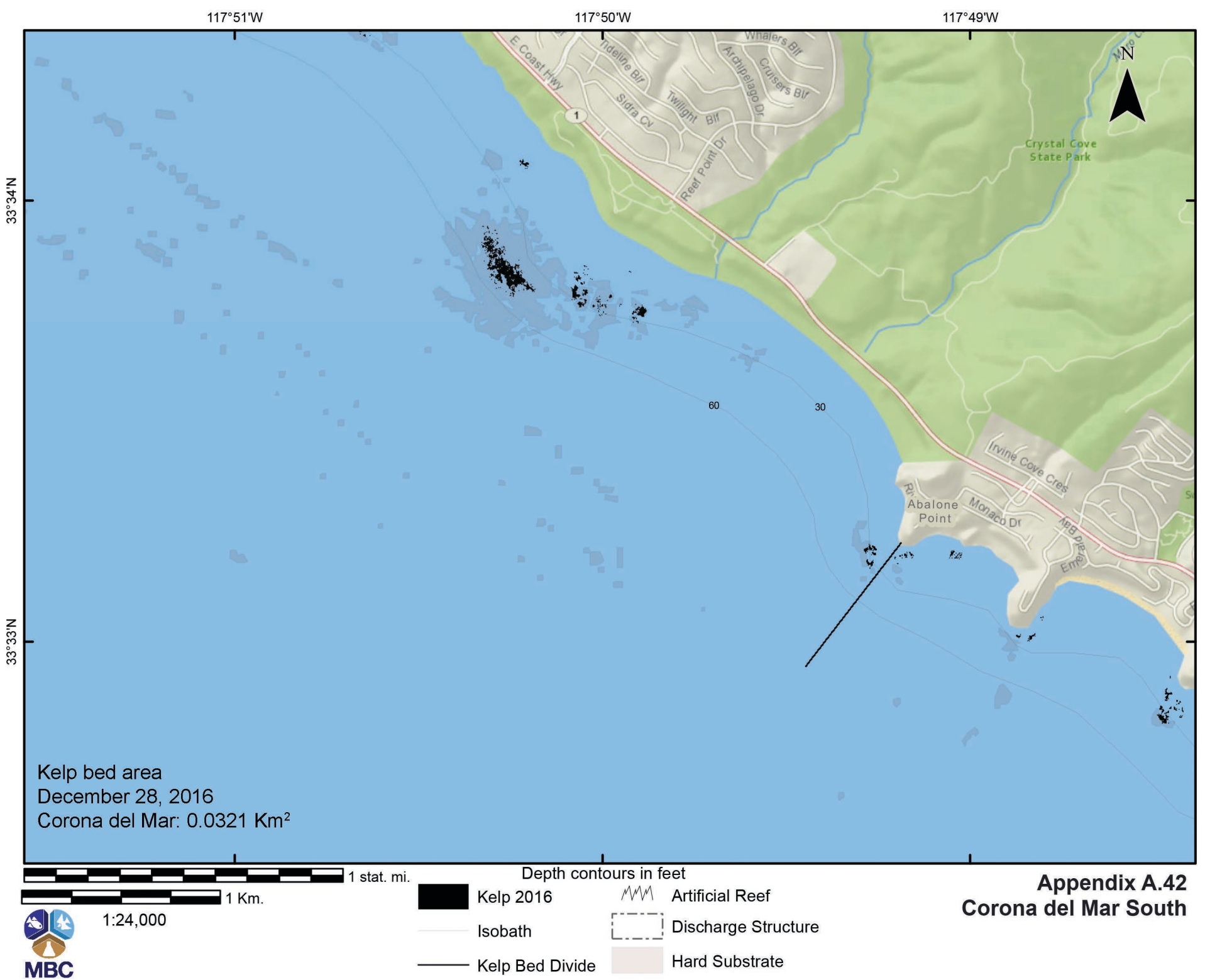
Appendix A.39
Newport Beach



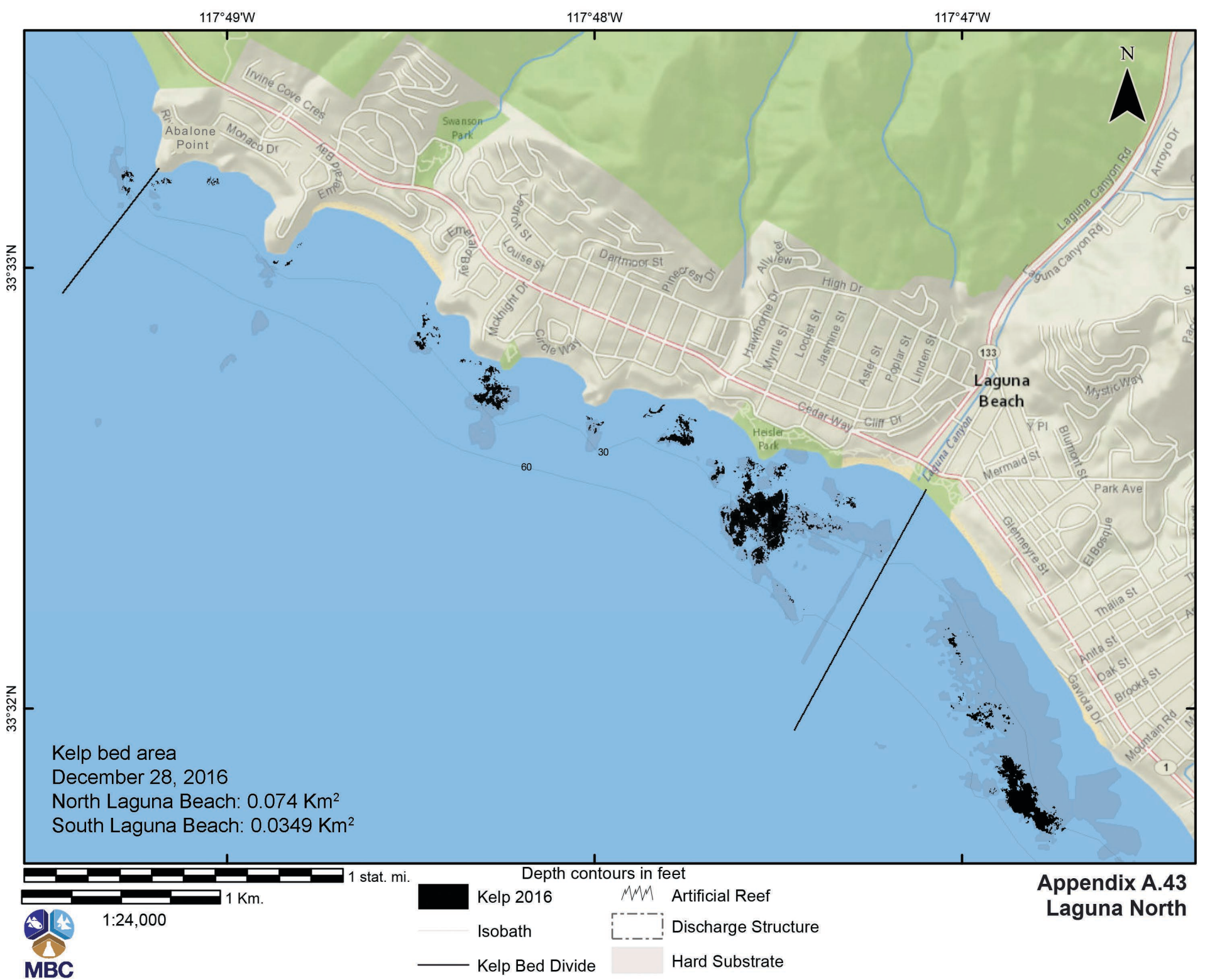
Appendix A.40
Newport Harbor



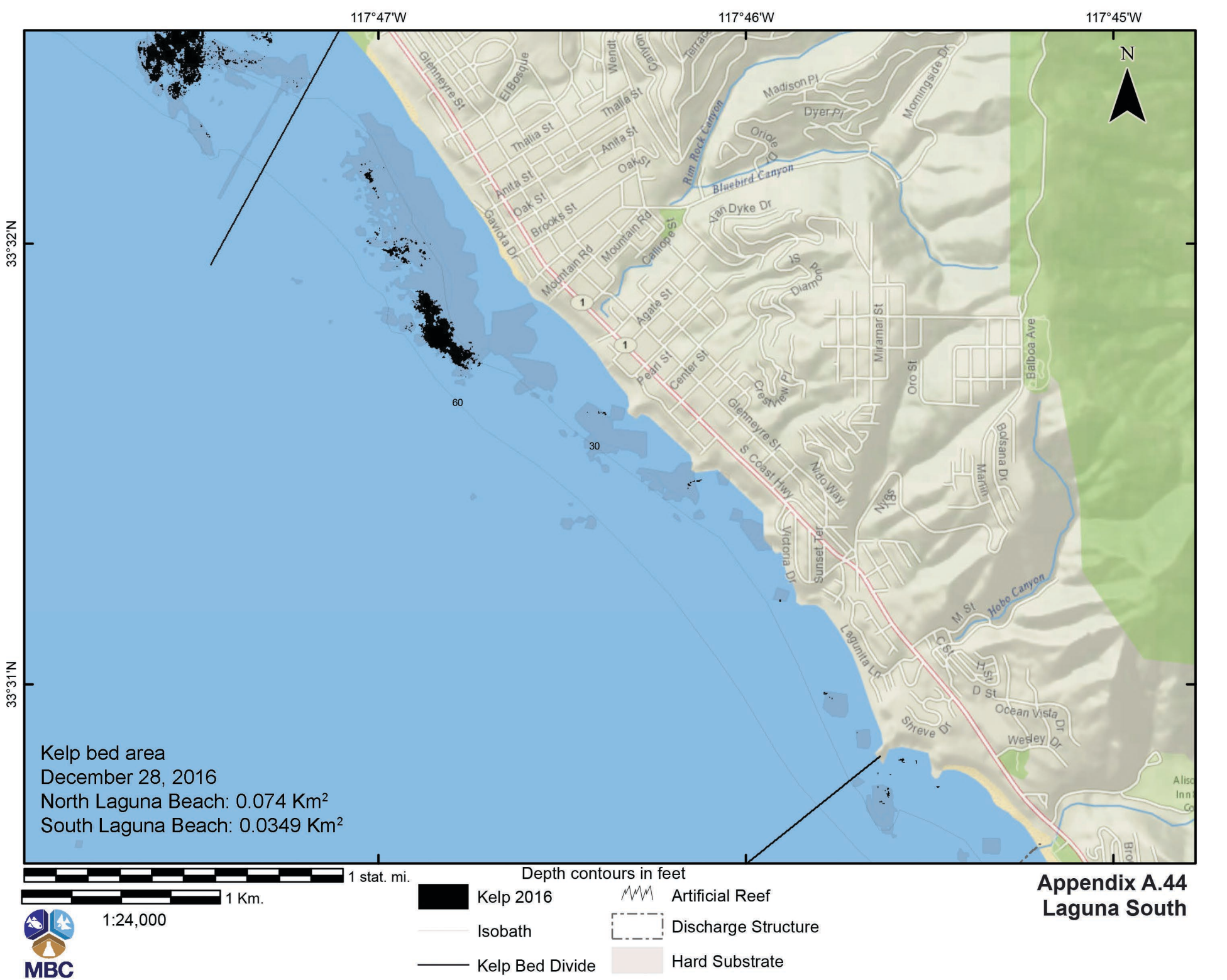
Appendix A.41
Corona del Mar North



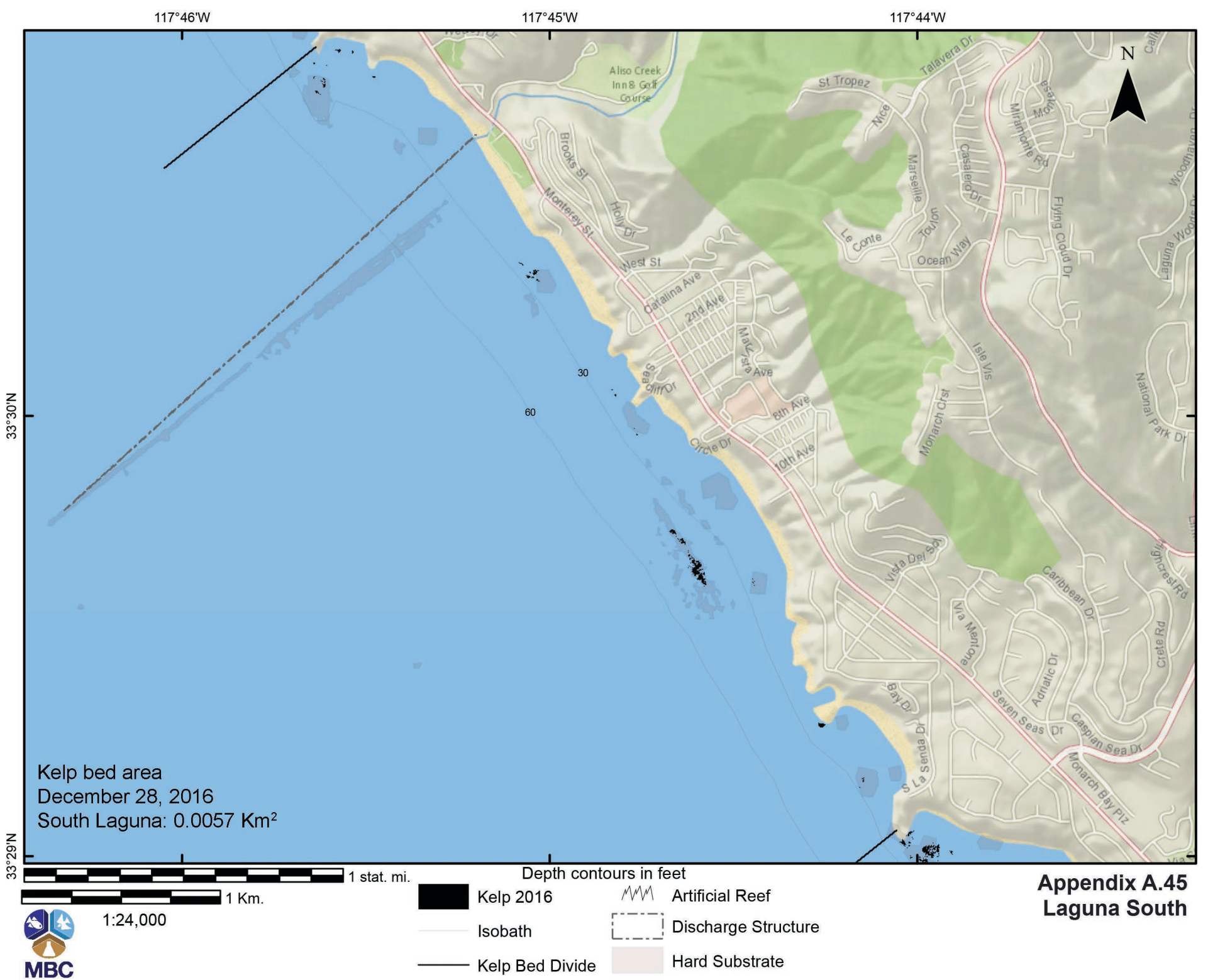
Appendix A.42
Corona del Mar South



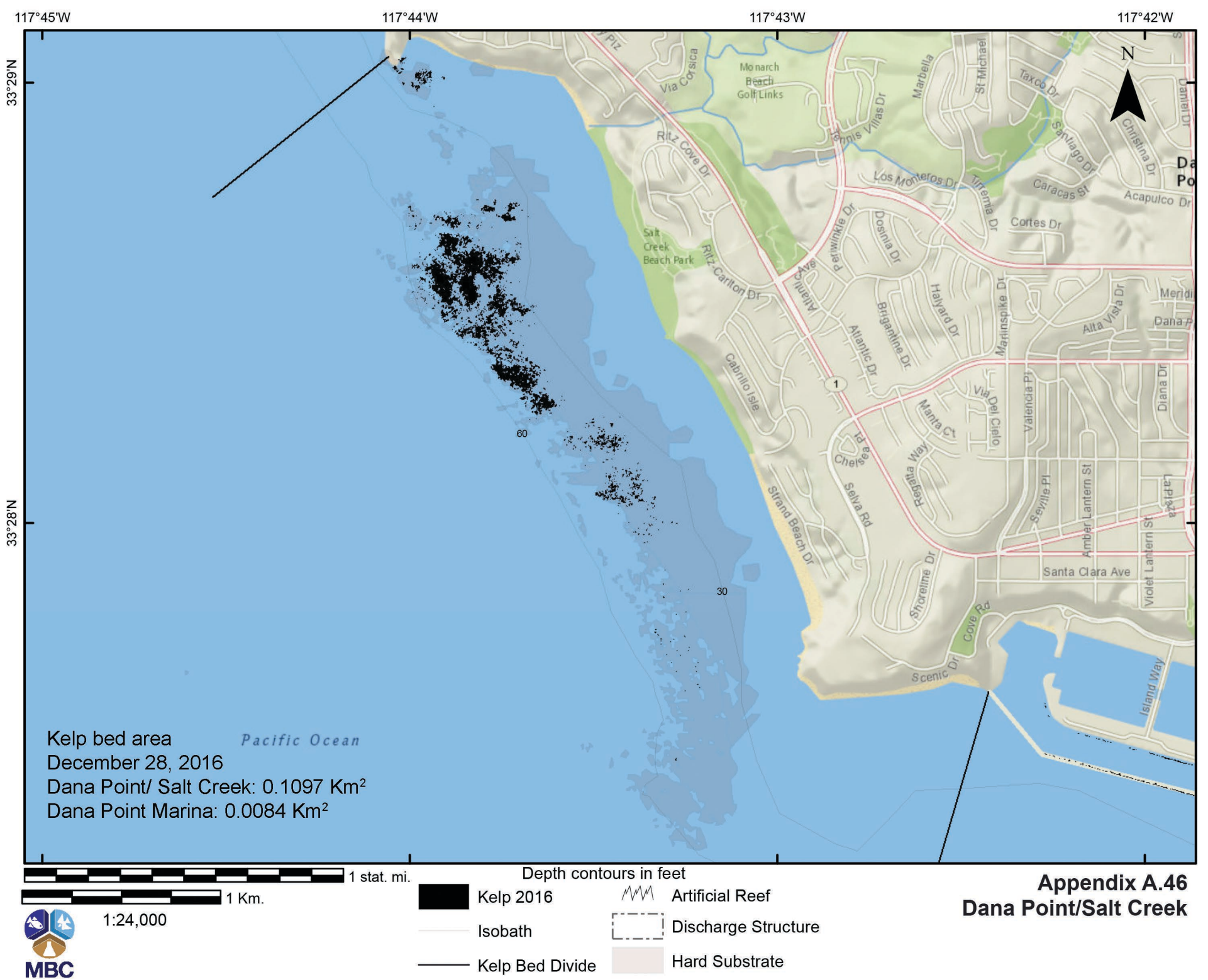
Appendix A.43
Laguna North



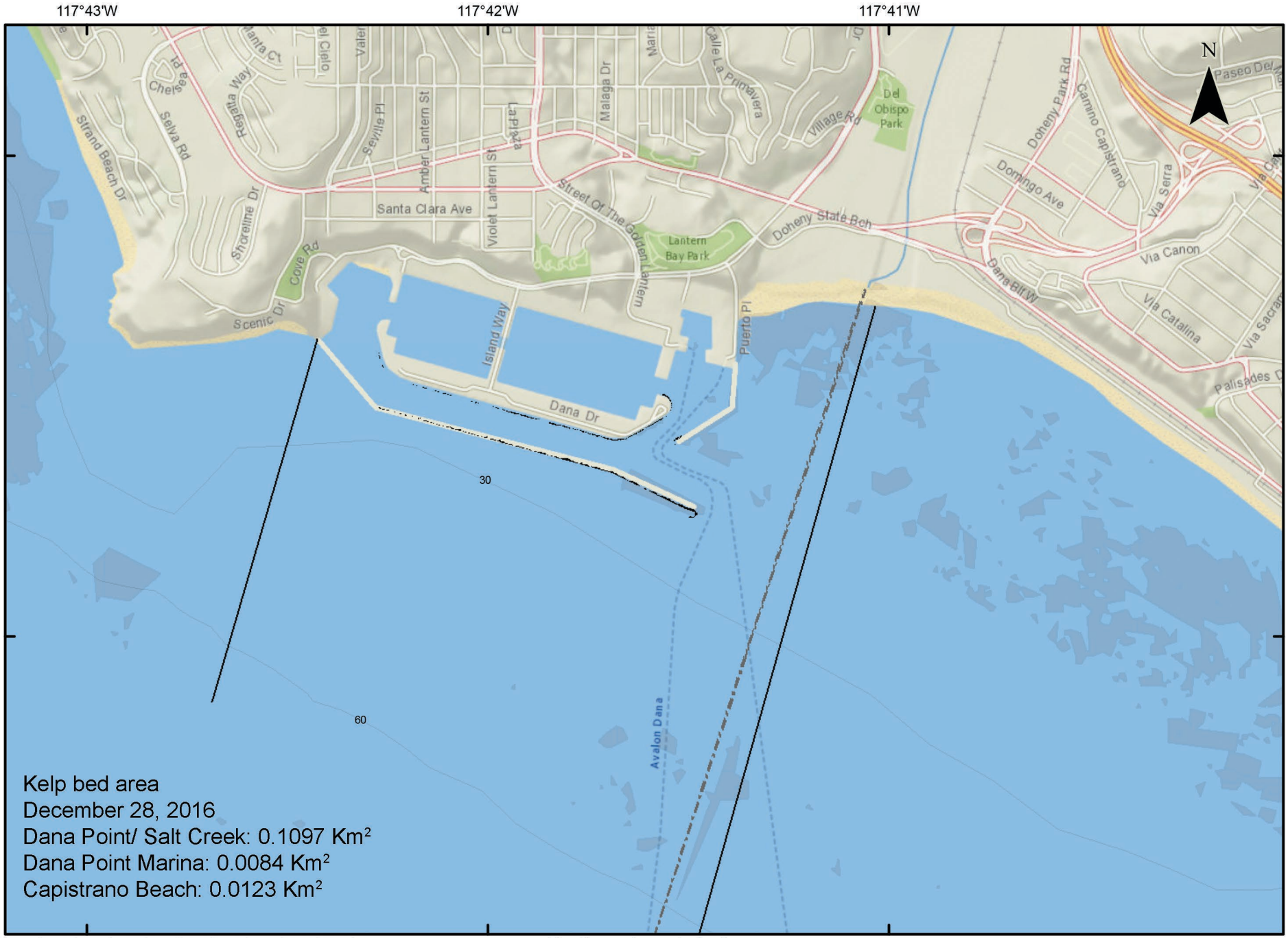
Appendix A.44
Laguna South



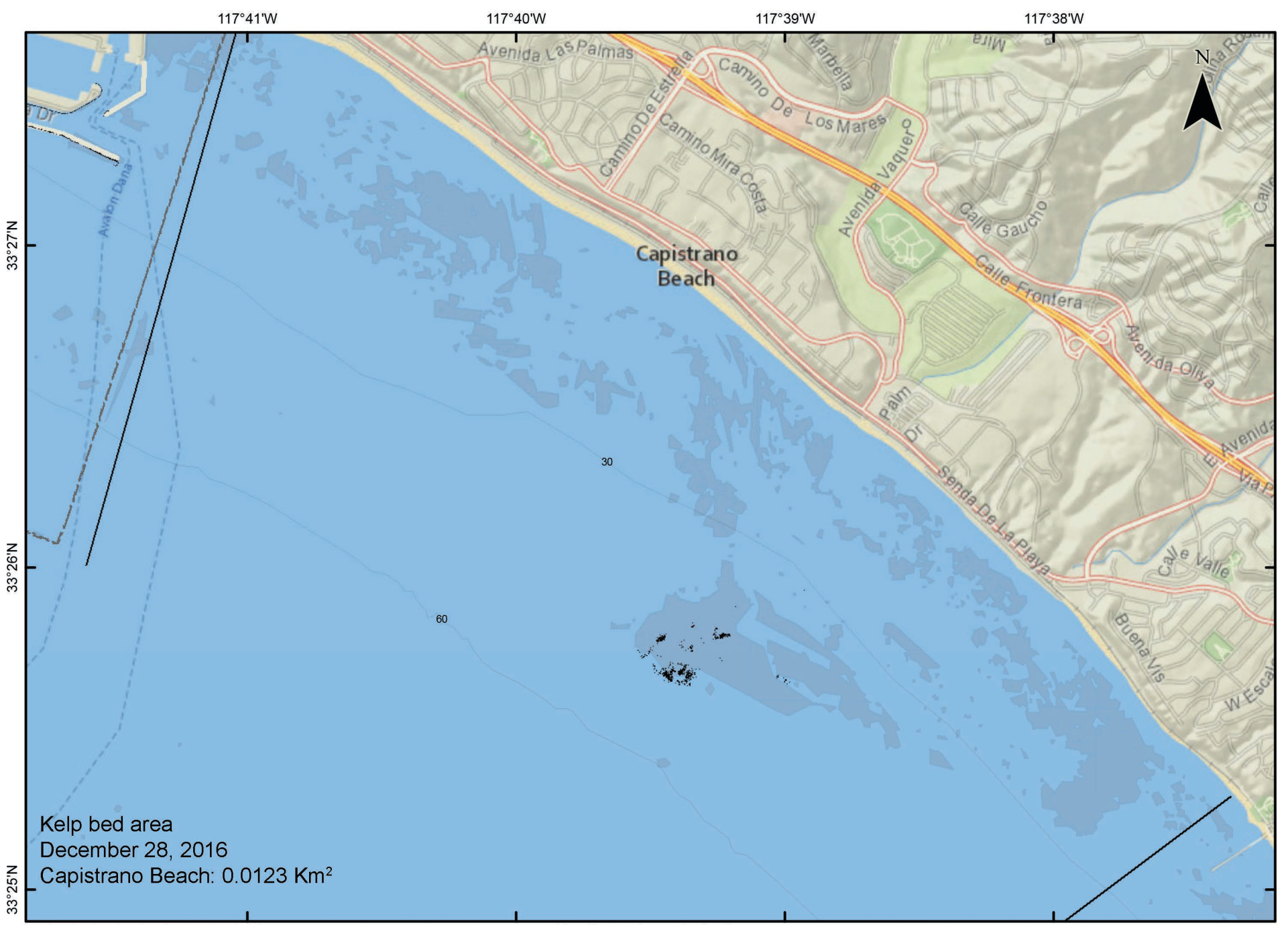
Appendix A.45
Laguna South



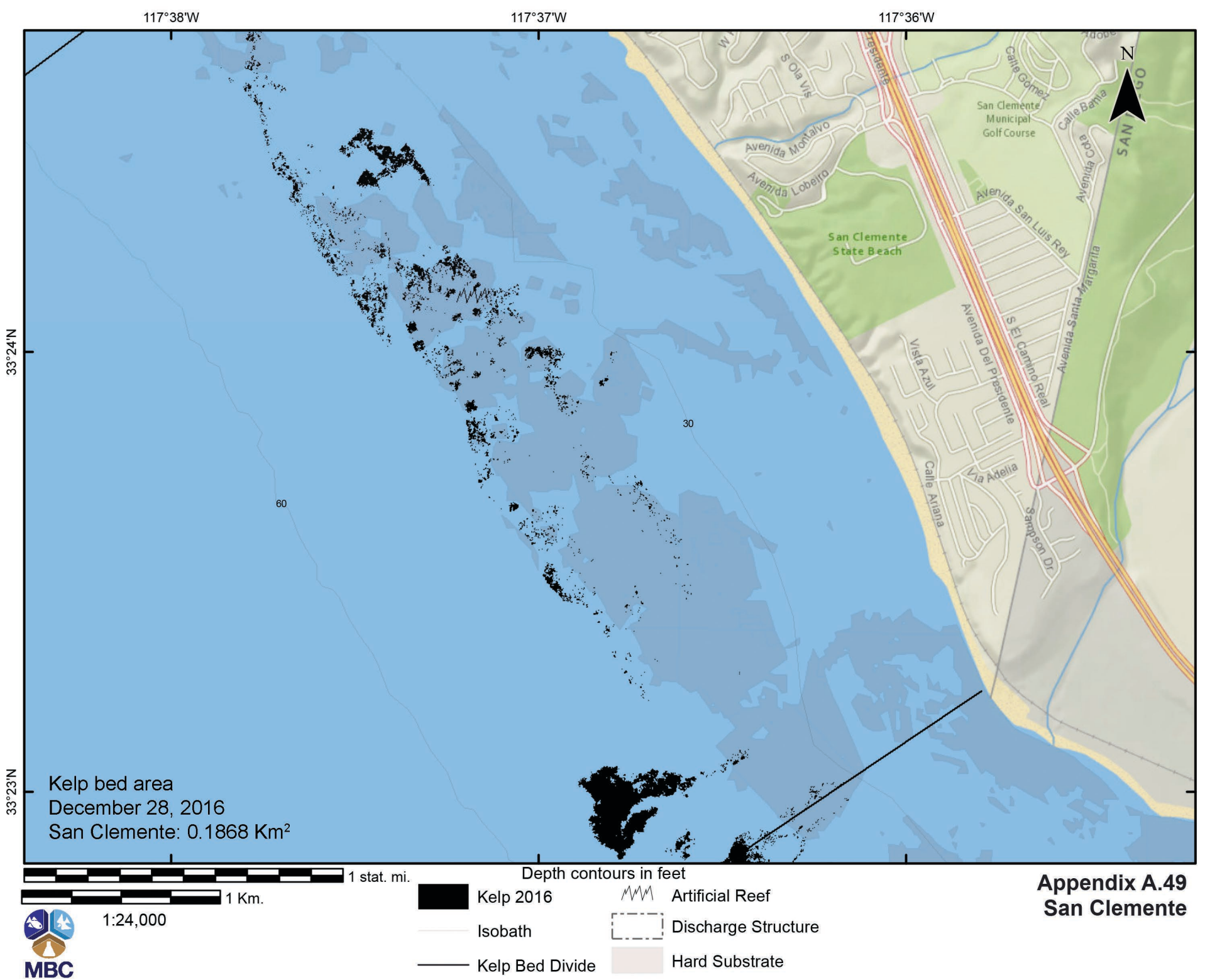
Appendix A.46
Dana Point/Salt Creek



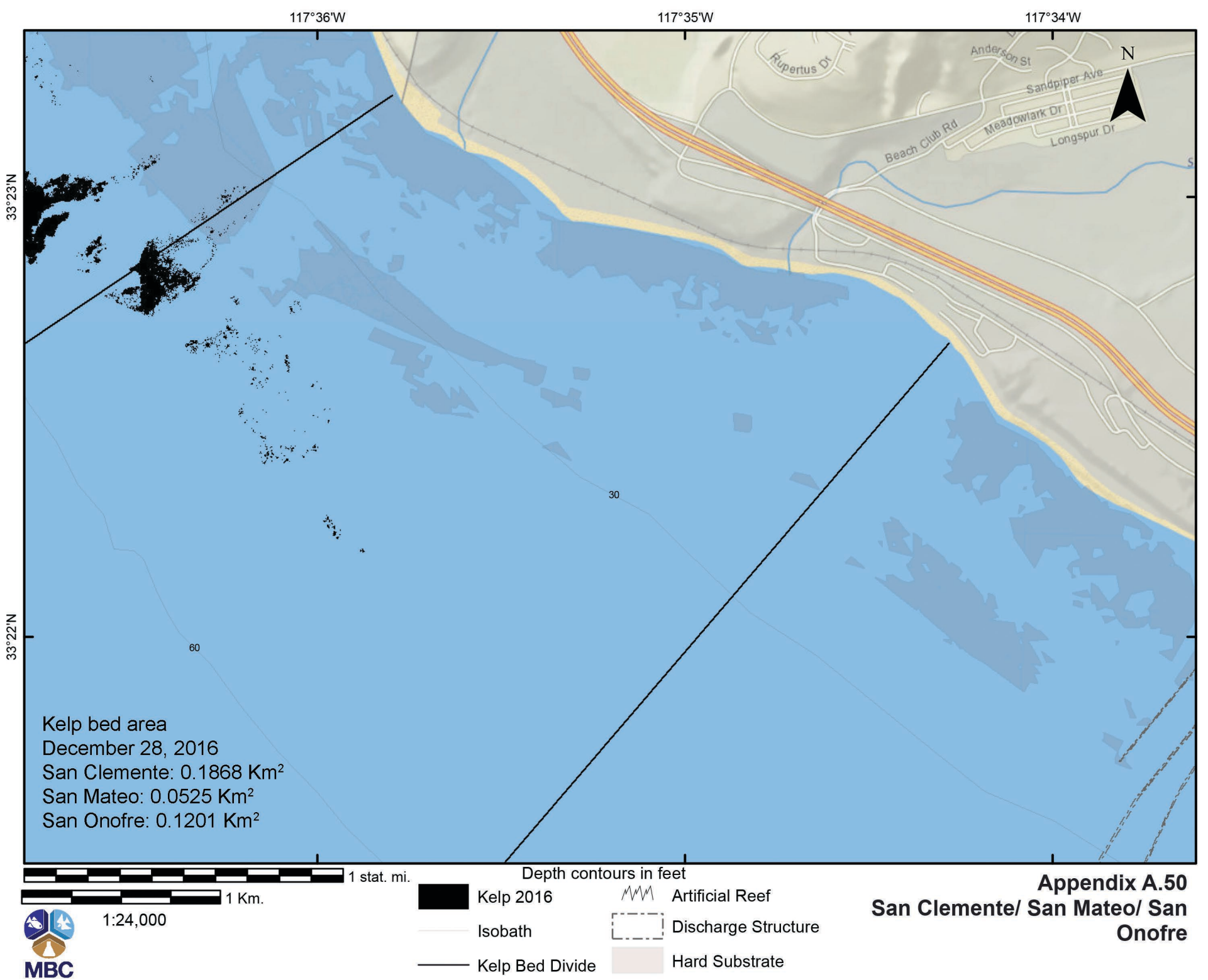
Appendix A.47
Salt Creek/ Dana Point Marina/ Capistrano Beach



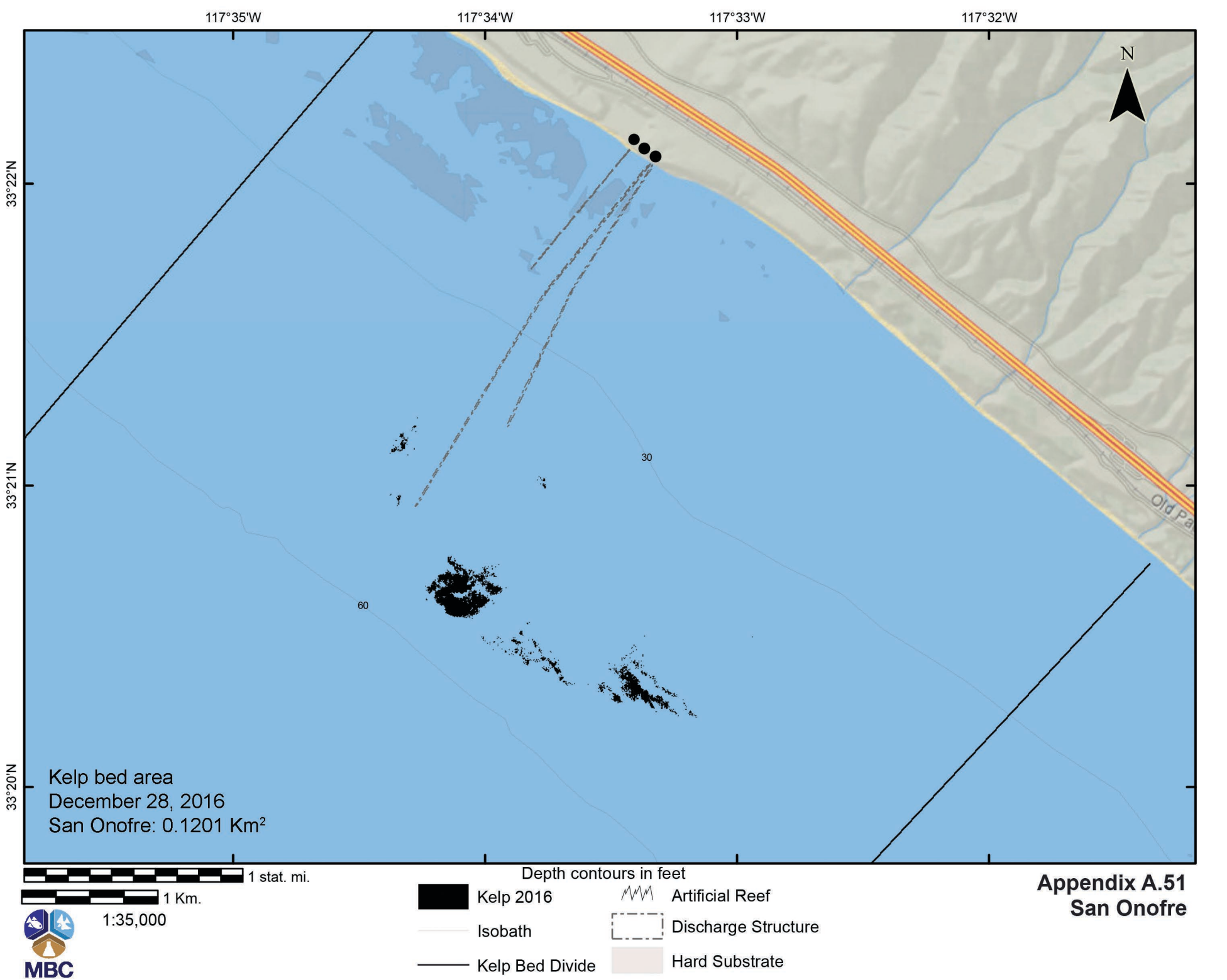
Appendix A.48
Capistrano Beach

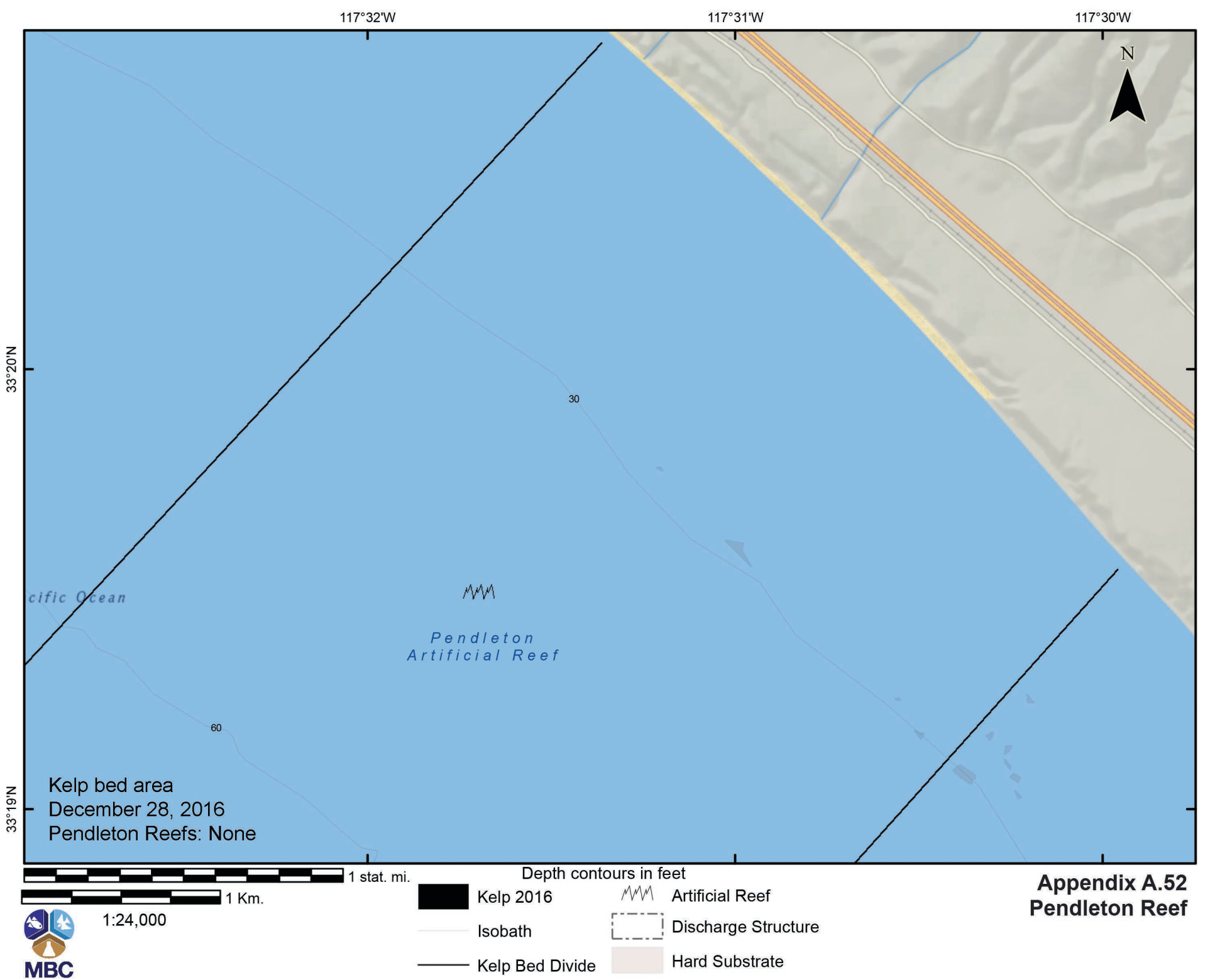


Appendix A.49
San Clemente

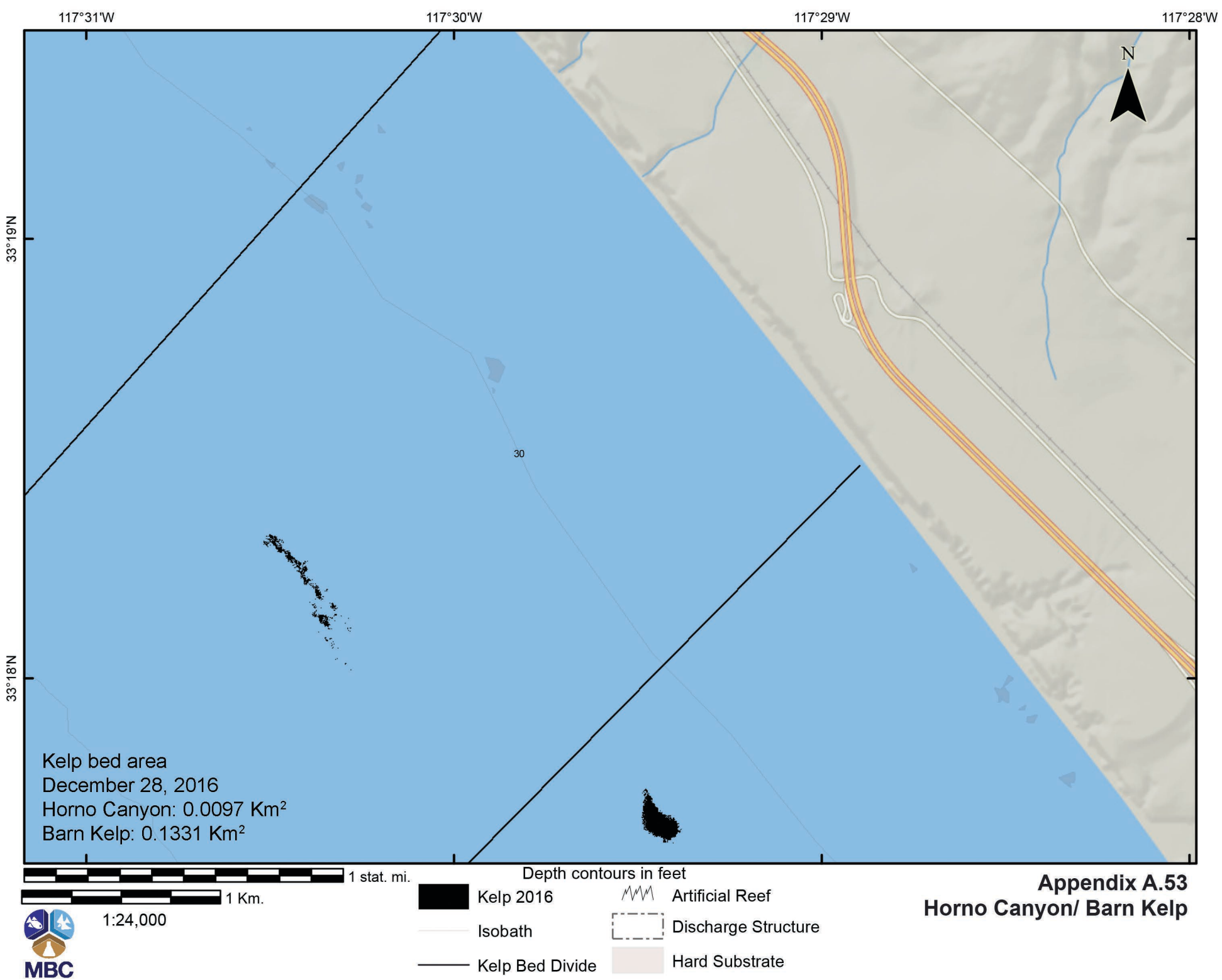


Appendix A.50
San Clemente/ San Mateo/ San Onofre

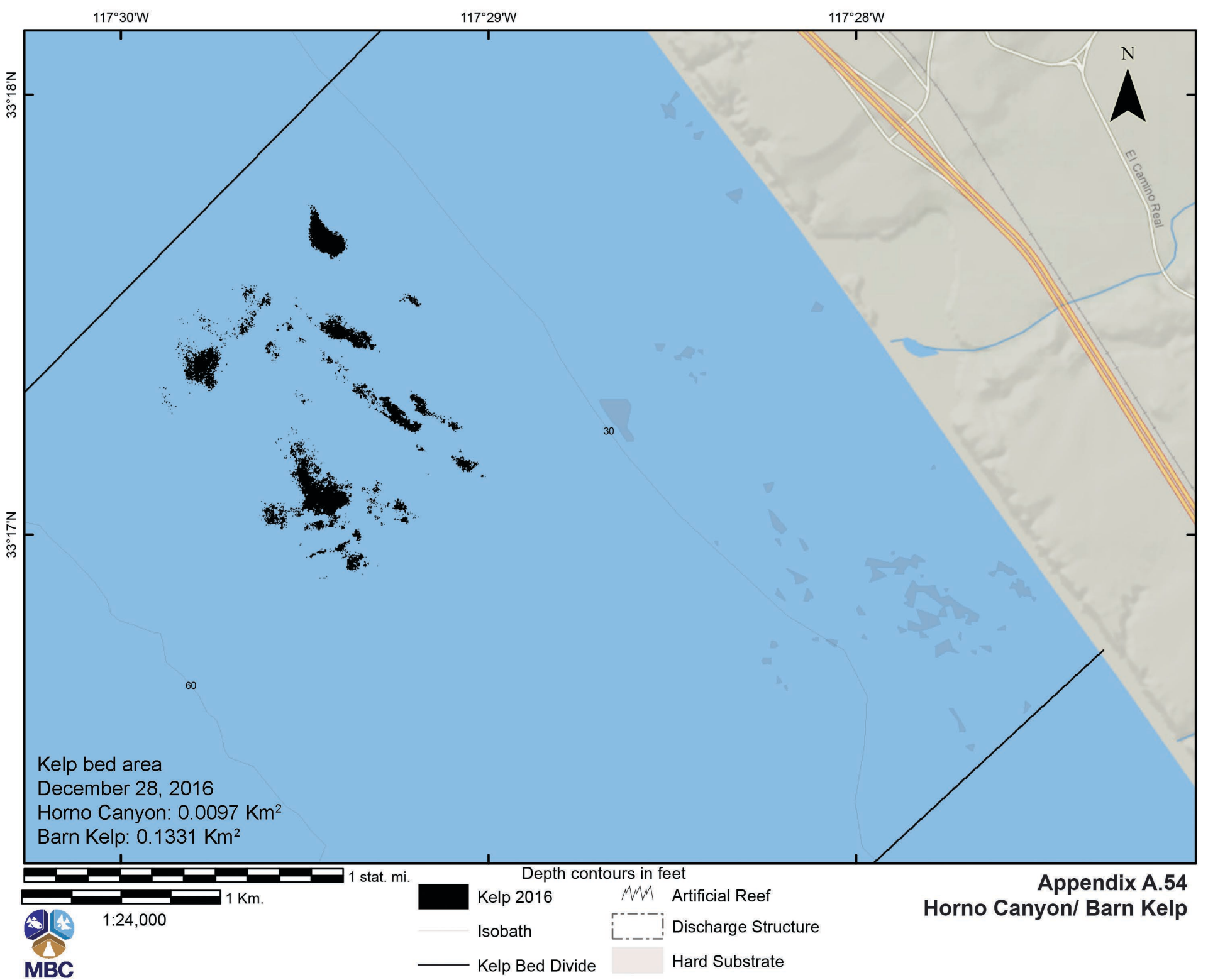

117°35'W
117°34'W
117°33'W
117°32'W
33°22'N
33°21'N
33°20'N
N
30
60
Old Pa
Kelp bed area
December 28, 2016
San Onofre: 0.1201 Km²
1 stat. mi.
1 Km.
1:35,000
MBC
Depth contours in feet
Kelp 2016
Isobath
Kelp Bed Divide
Artificial Reef
Discharge Structure
Hard Substrate
Appendix A.51
San Onofre



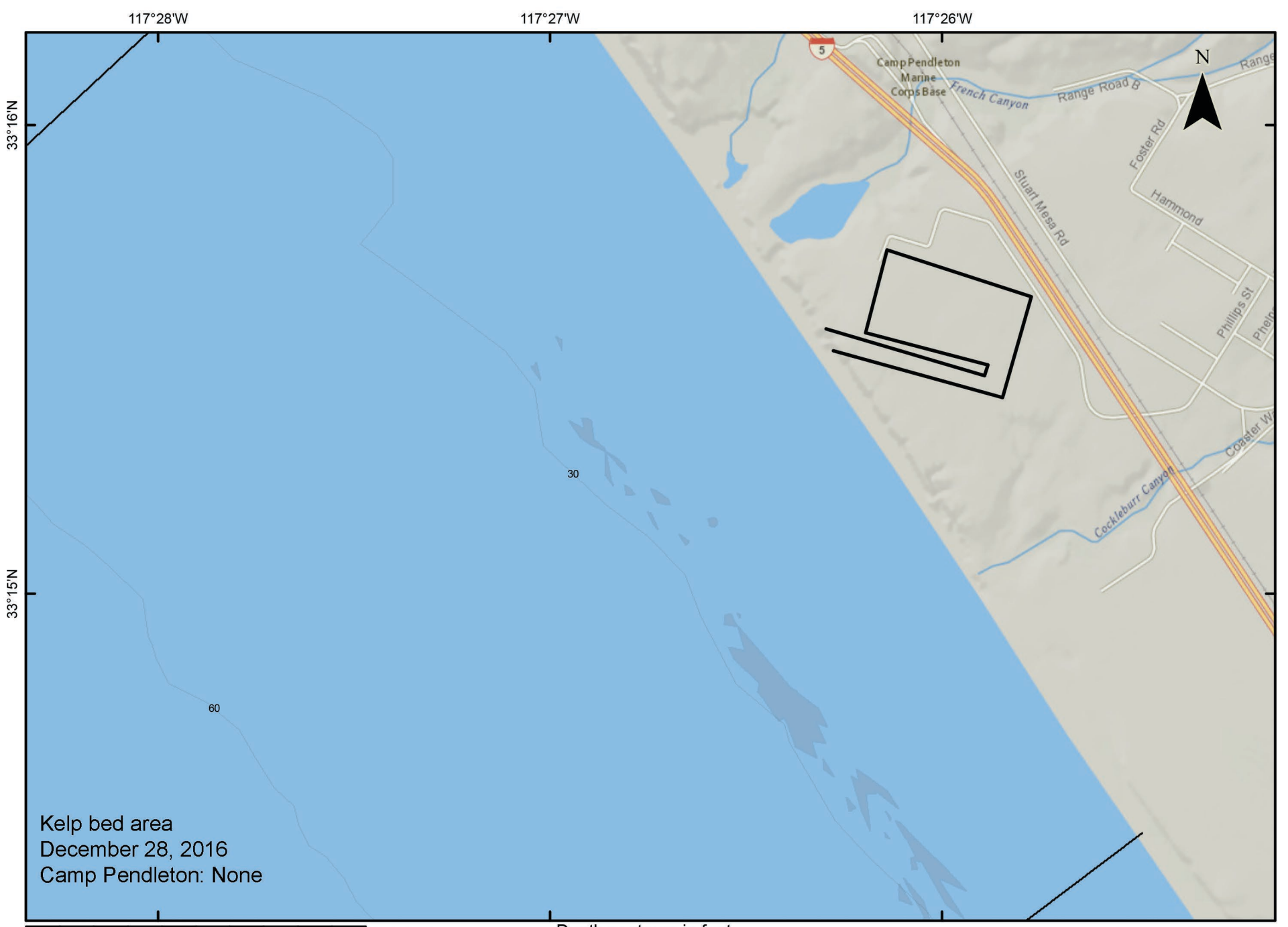
Appendix A.52
Pendleton Reef



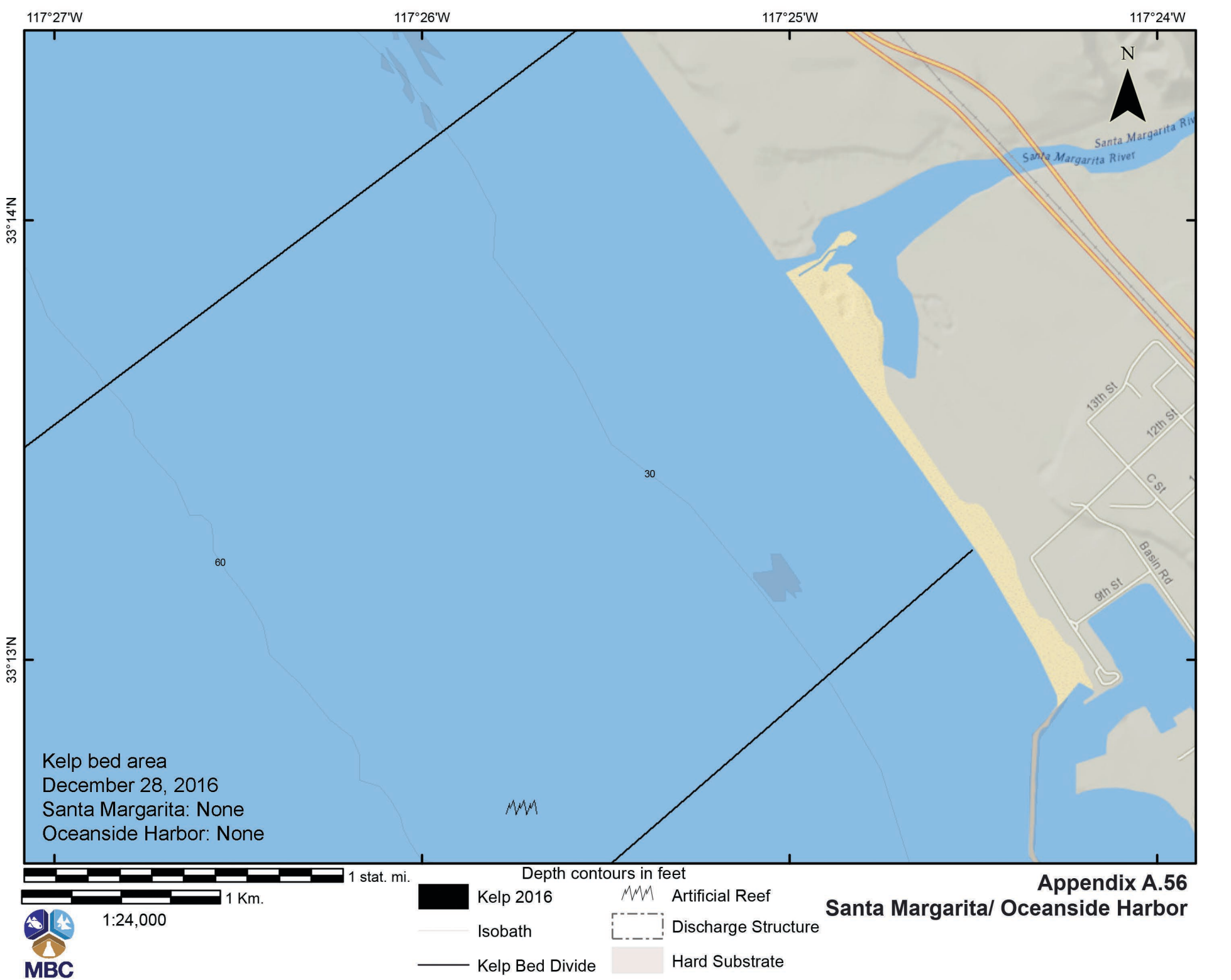
Appendix A.53
Horno Canyon/ Barn Kelp



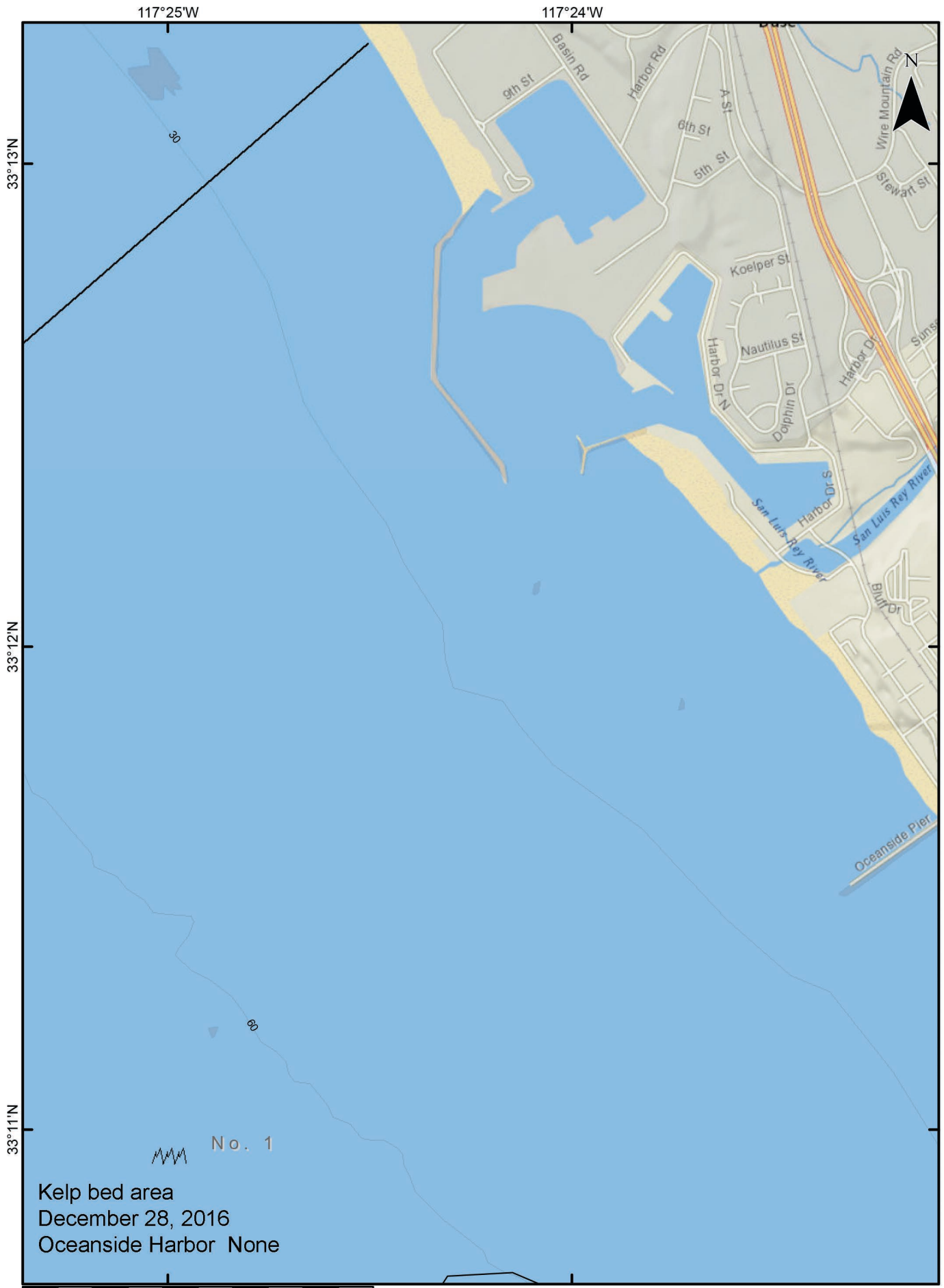
Appendix A.54
Horno Canyon/ Barn Kelp



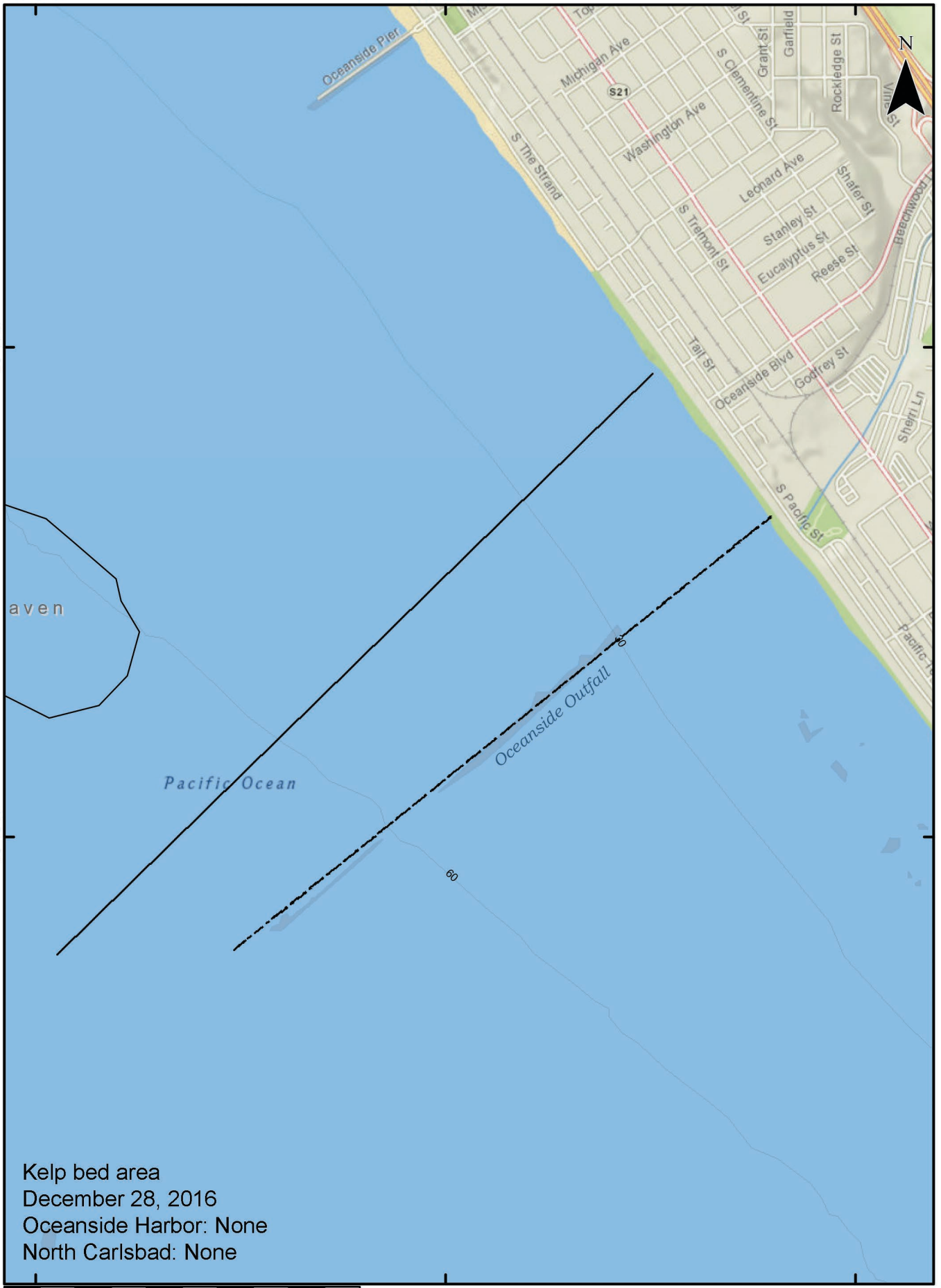
Appendix A.55
Camp Pendleton



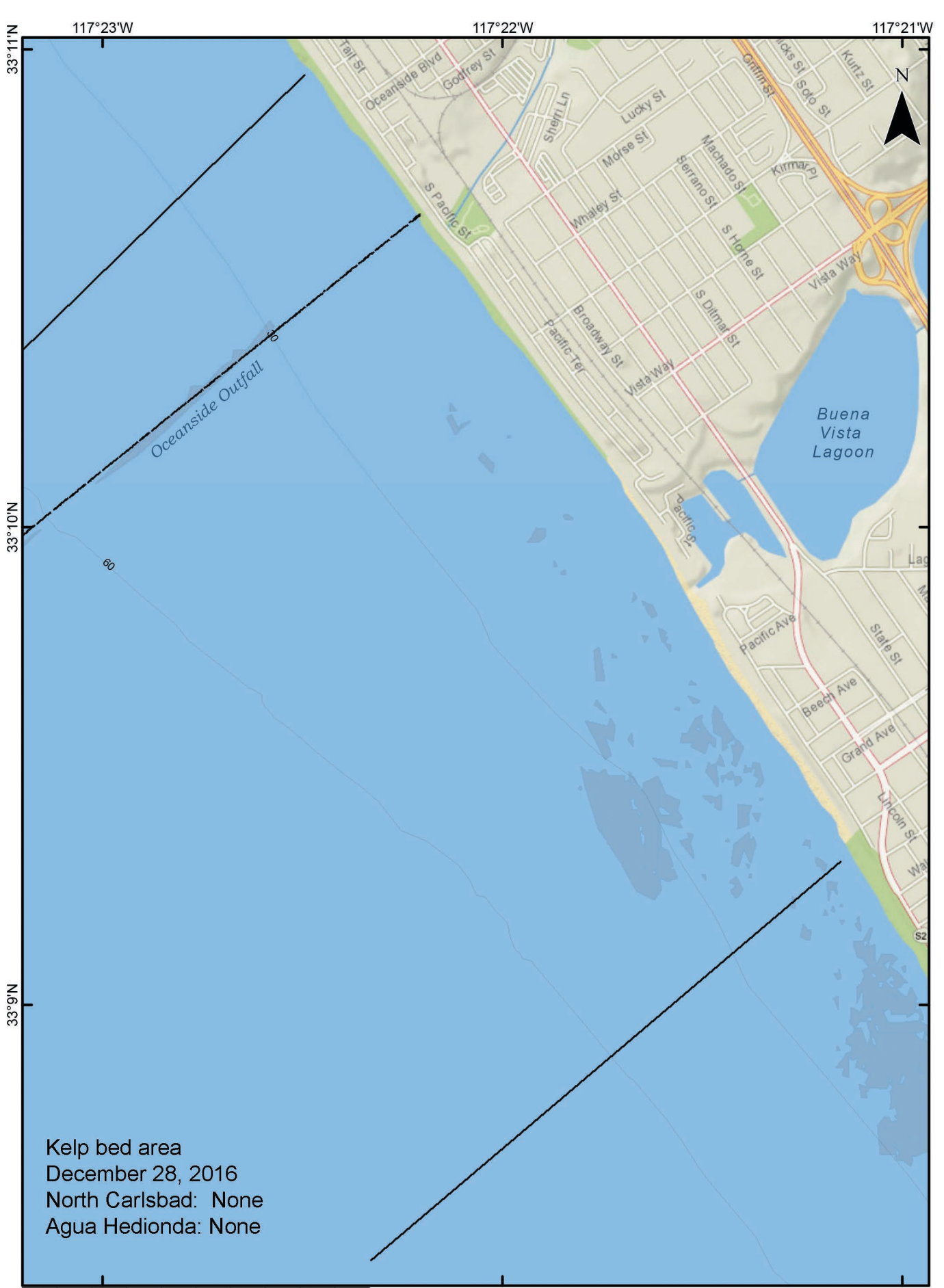
Appendix A.56
Santa Margarita/ Oceanside Harbor



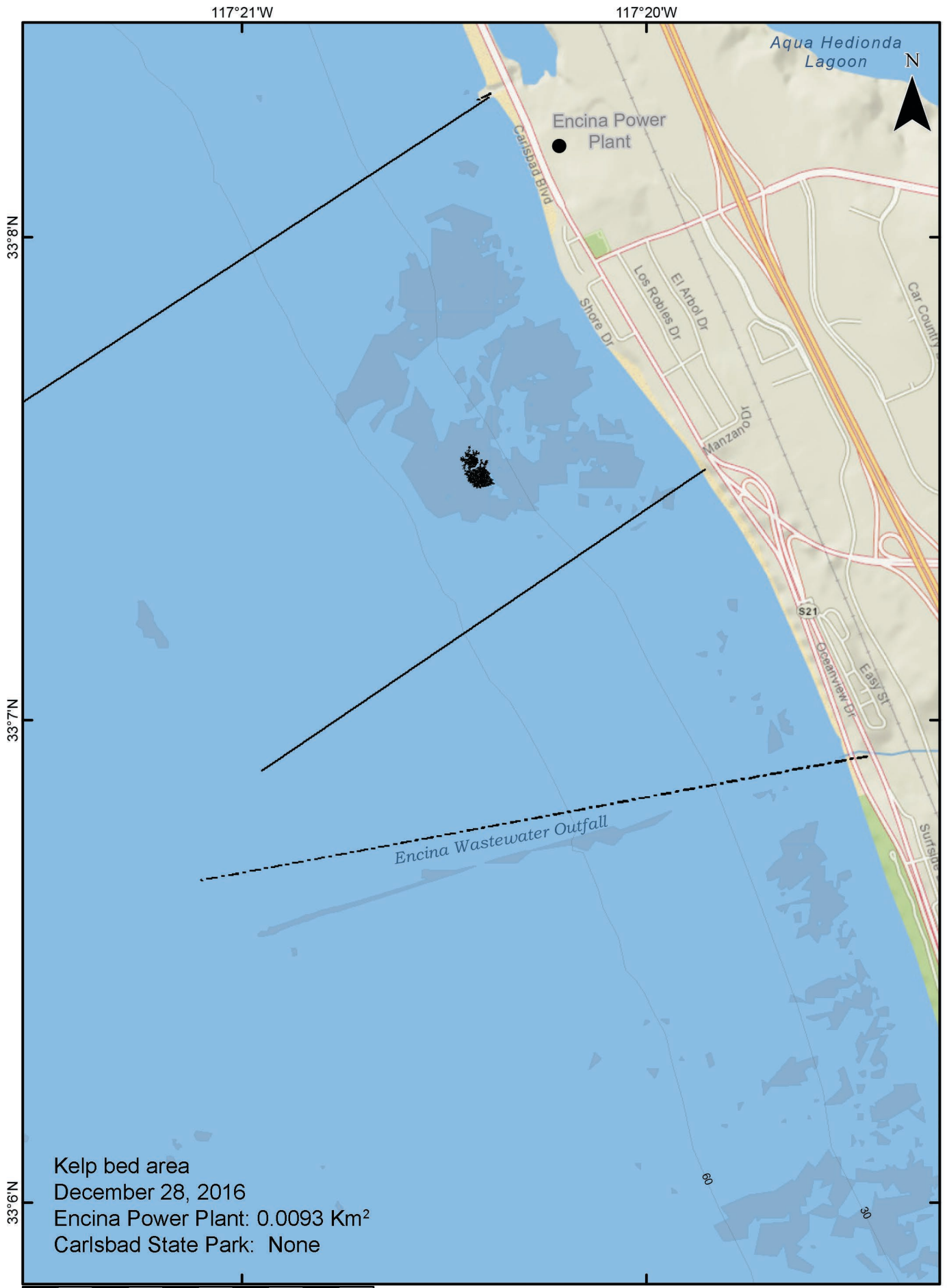
Appendix A.57
Oceanside Harbor and Pier



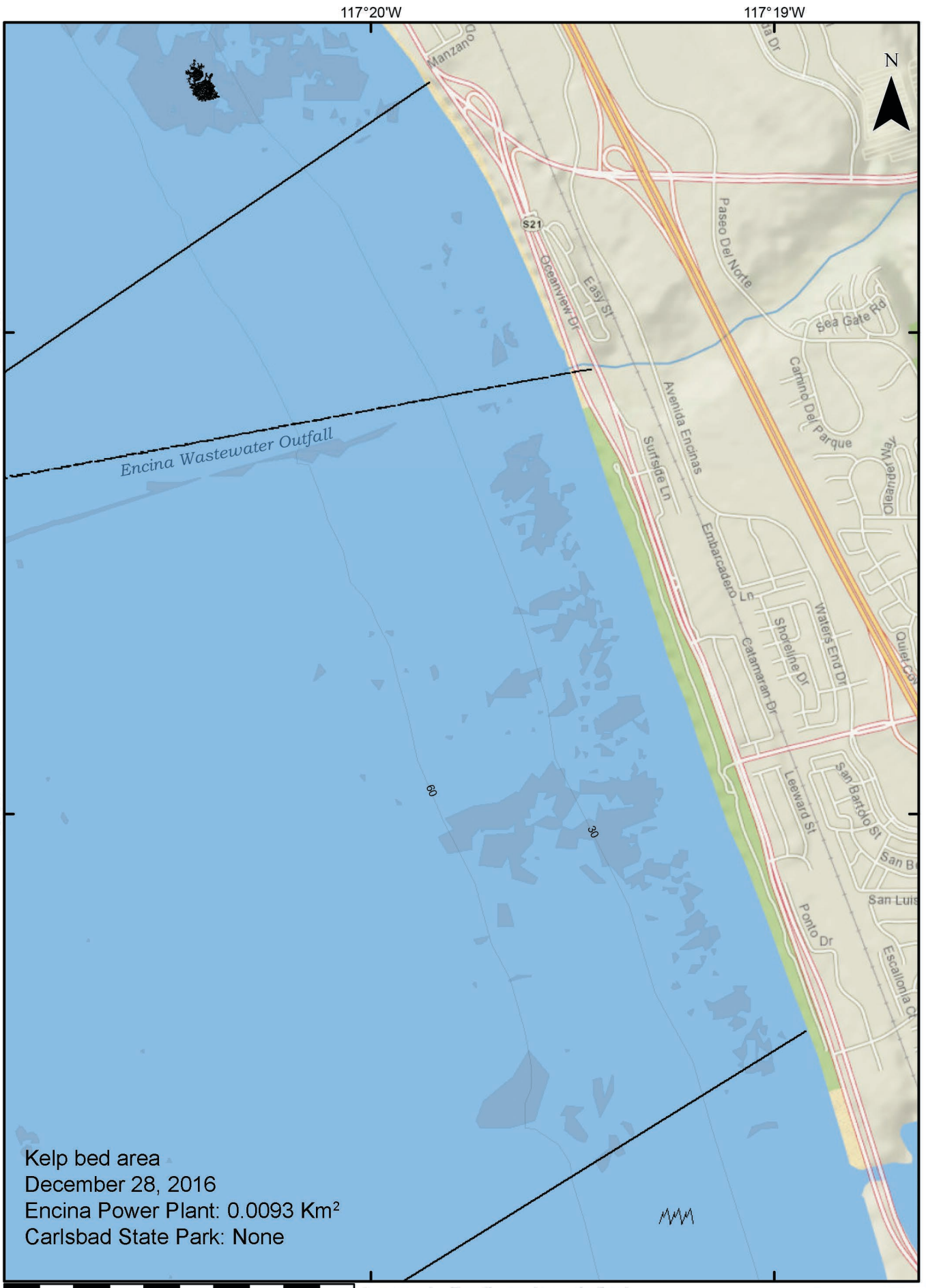
Appendix A.58
Oceanside Harbor/
Pier/ North Carlsbad



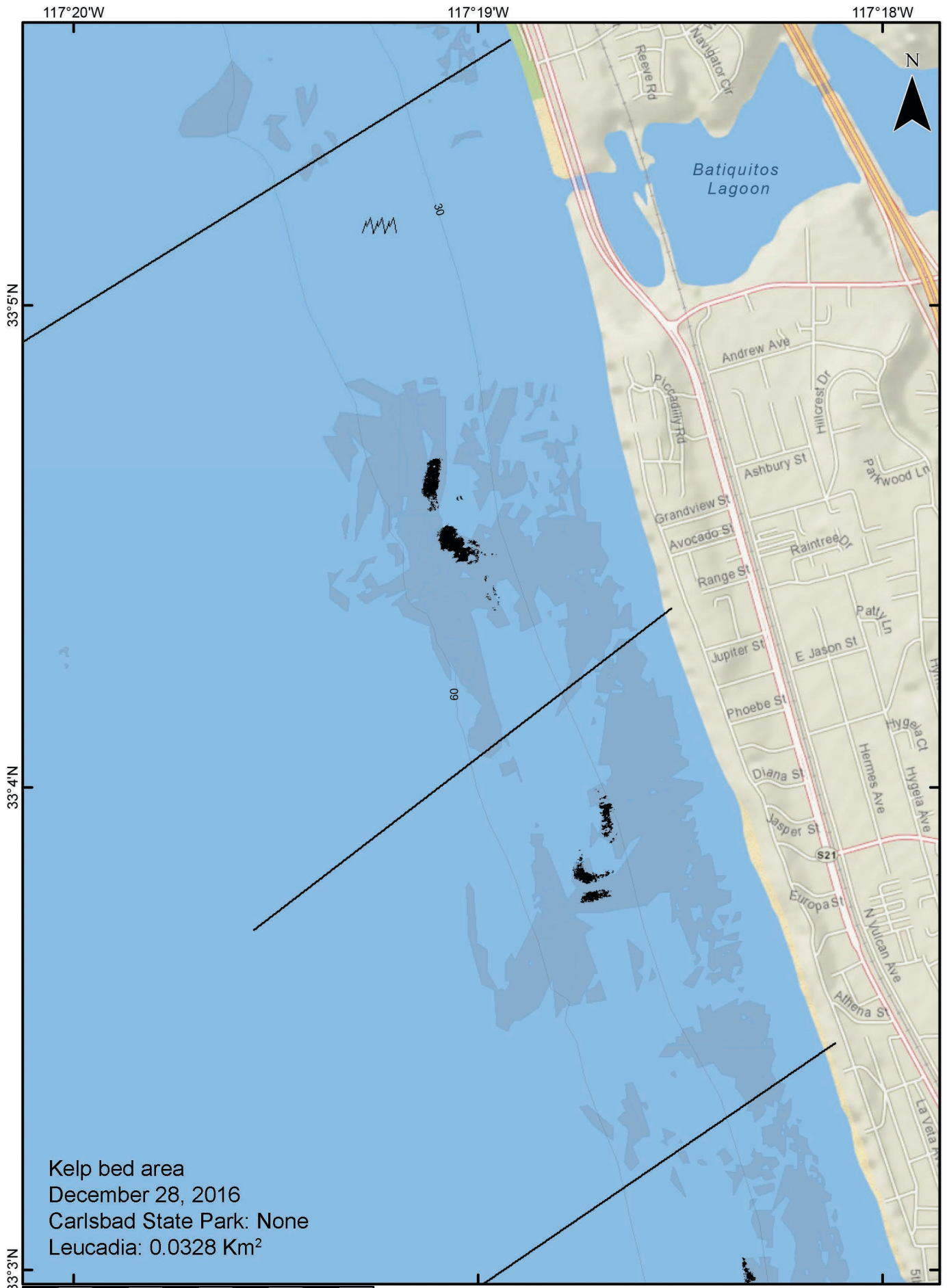
Appendix A.59
North Carlsbad/
Buena Vista Lagoon/
Agua Hediona



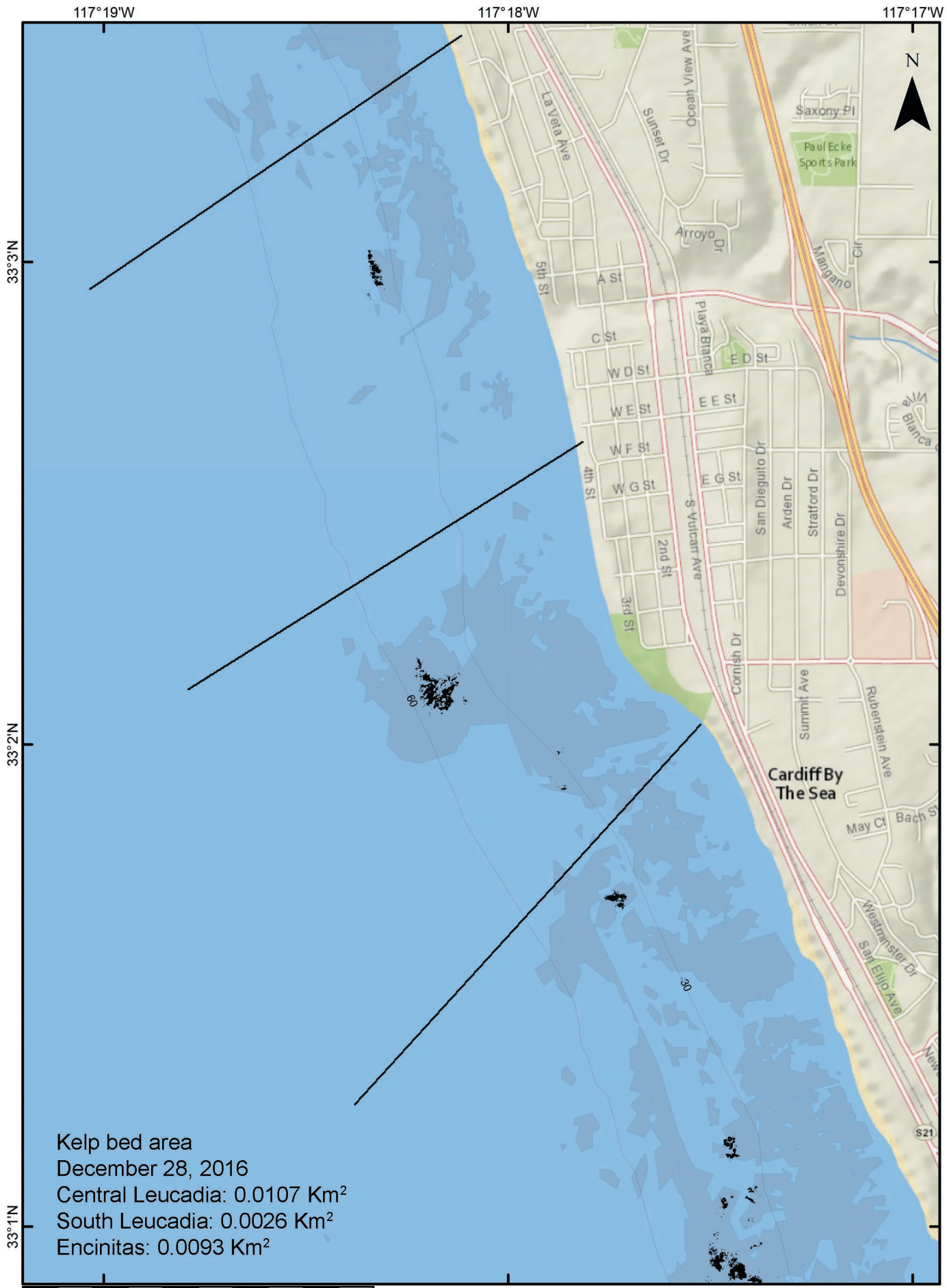
Appendix A.60
Encina Power Plant/
Carlsbad State Park



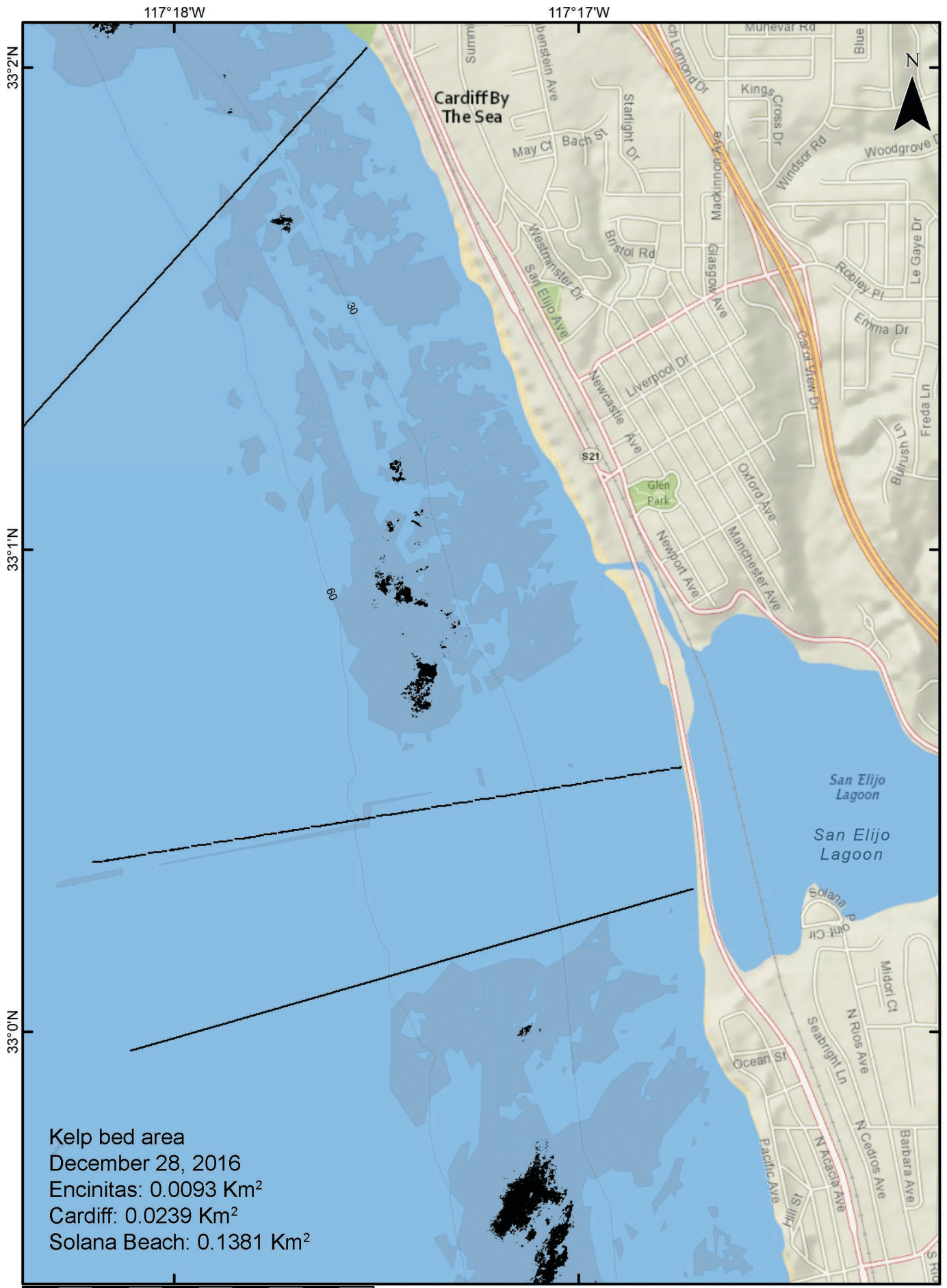
Appendix A.61
Encina Power Plant/
Carlsbad State Park



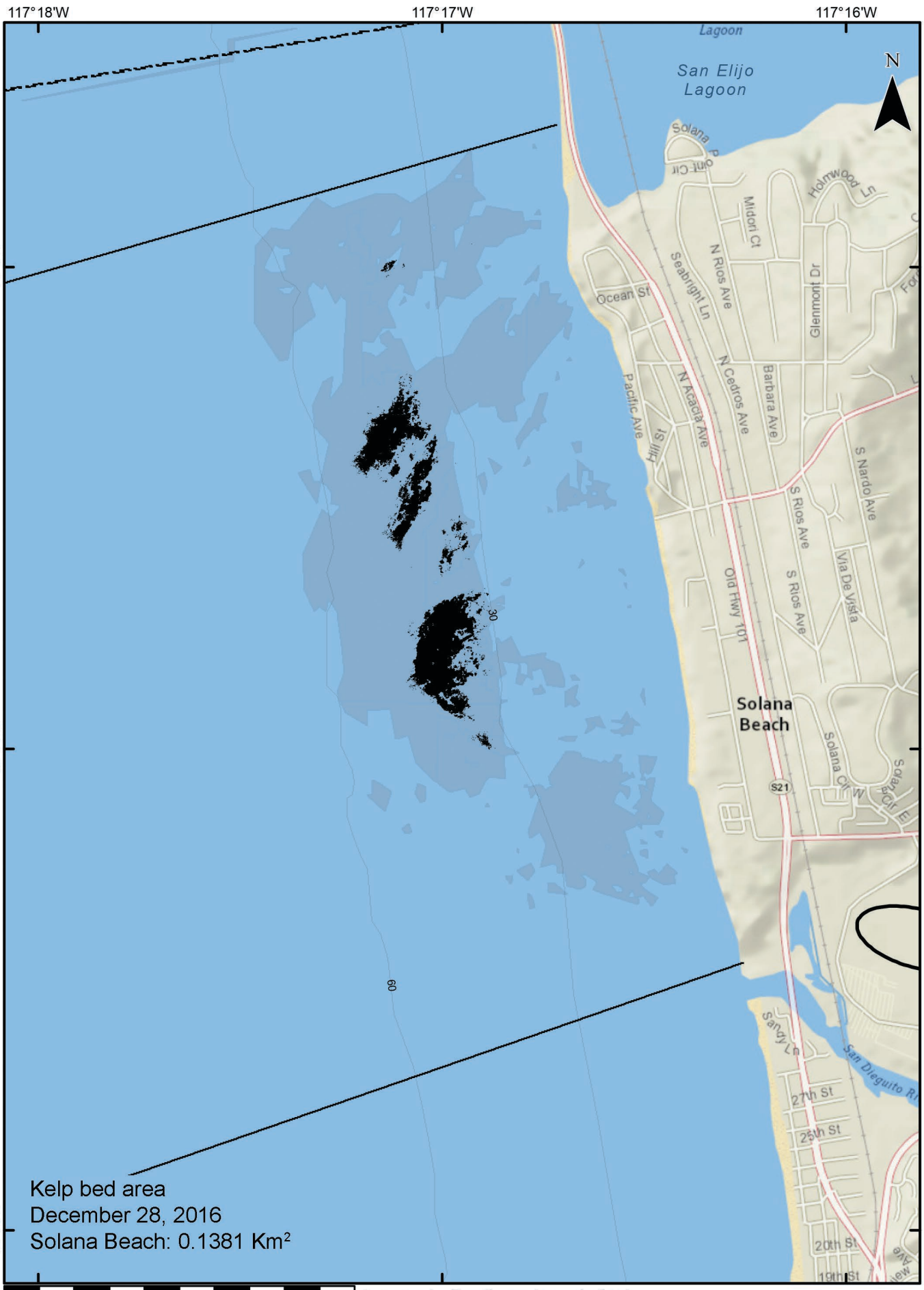
Appendix A.62
Leucadia (North, Central, South)



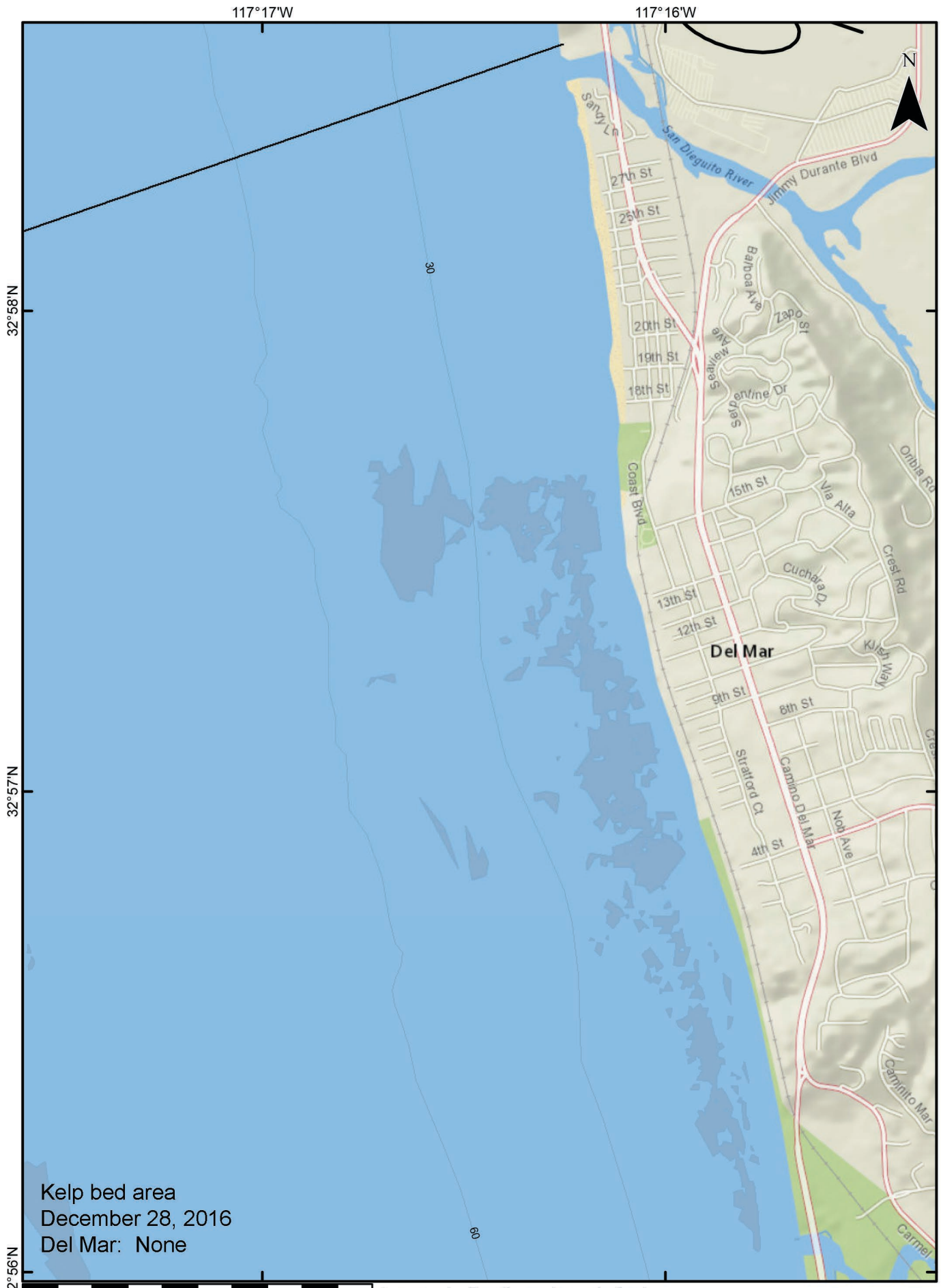
Appendix A.63
Leucadia (Central and South)/ Encinitas/ Cardiff



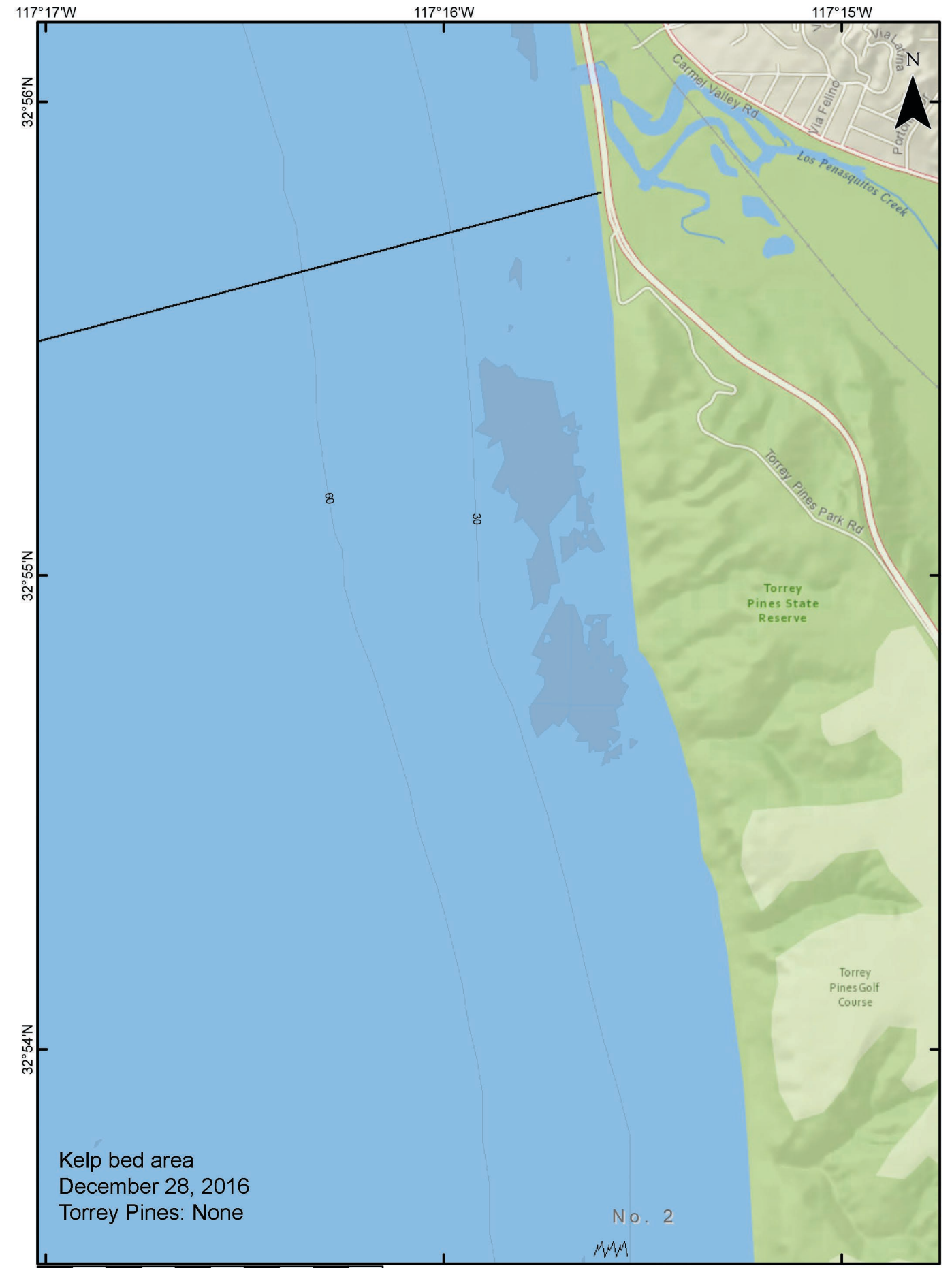
Appendix A.64
Encinitas/ Cardiff/ Solana Beach



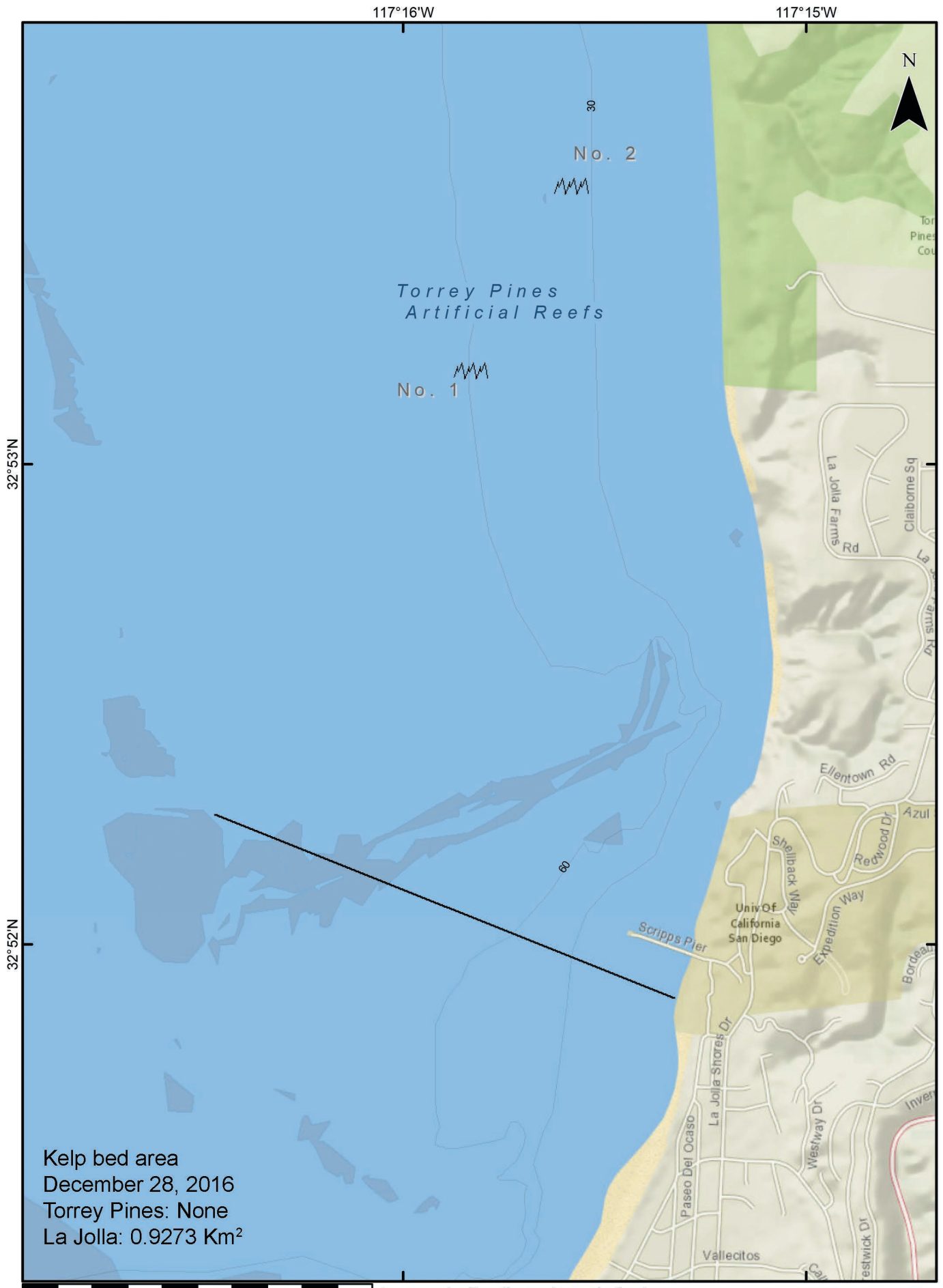
Appendix A.65
Solana Beach



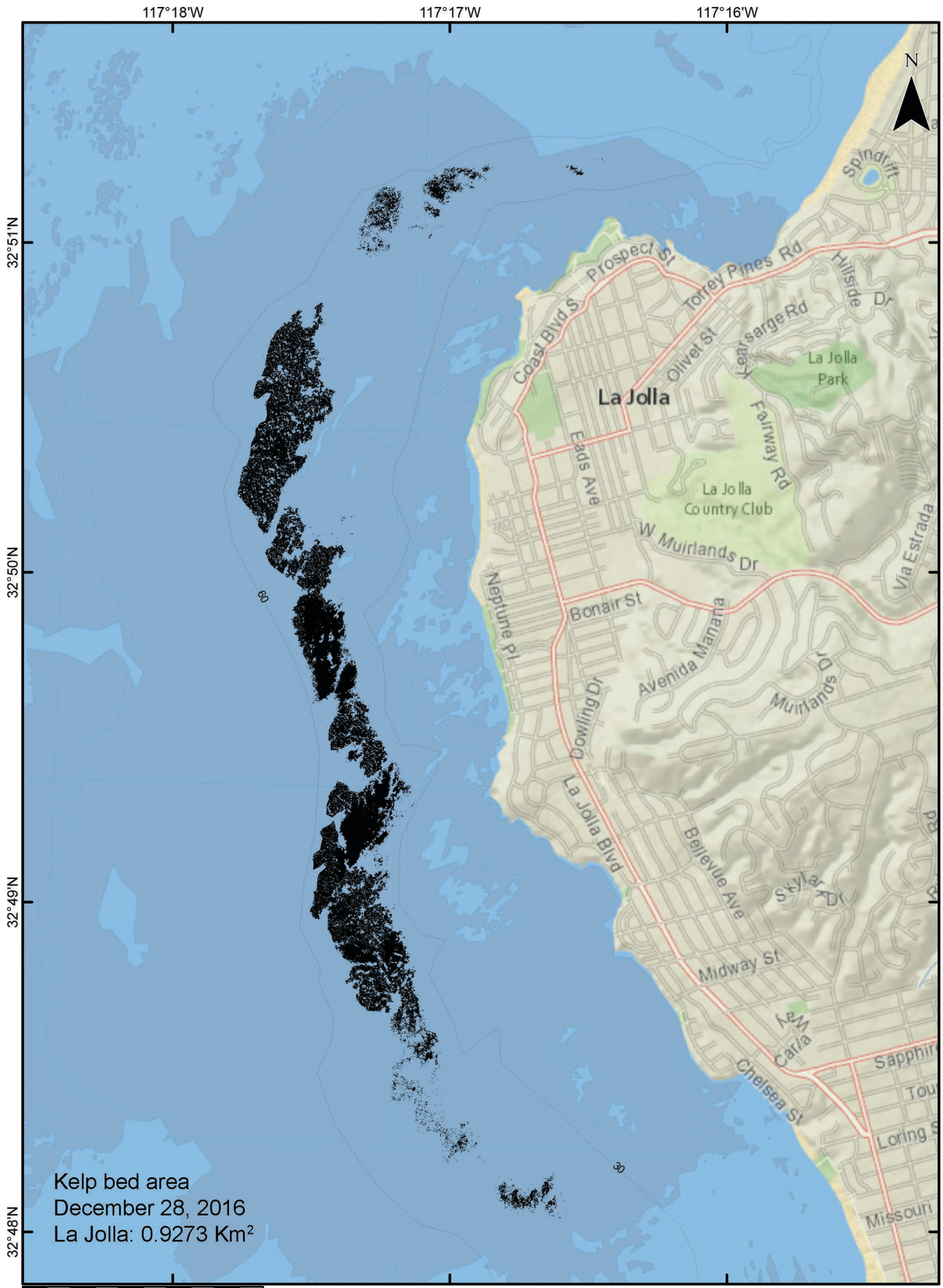
Appendix A.66
Del Mar



Appendix A.67
Torrey Pines (North)



Appendix A.68
Torrey Pines Reef (South)

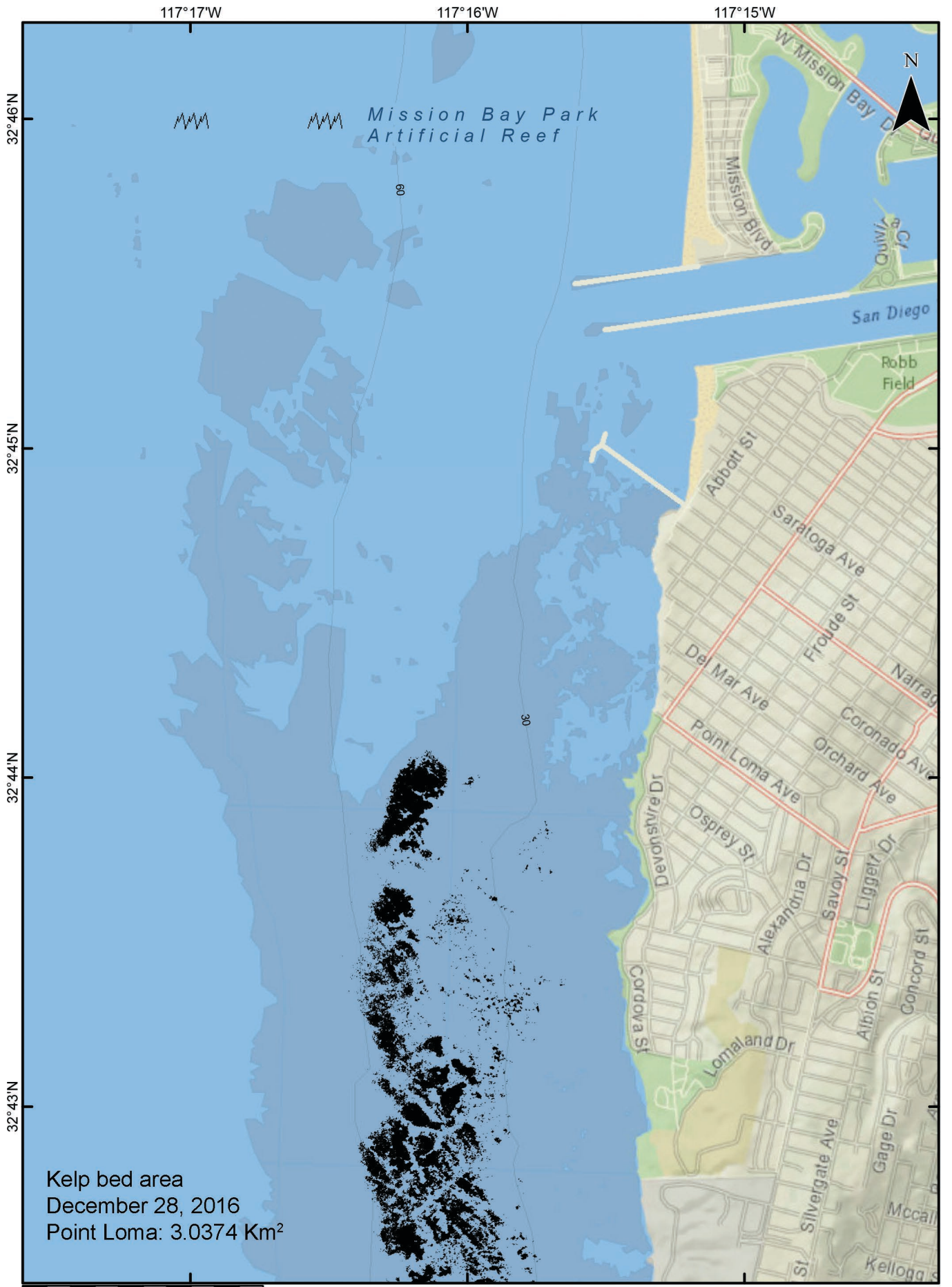


MBC

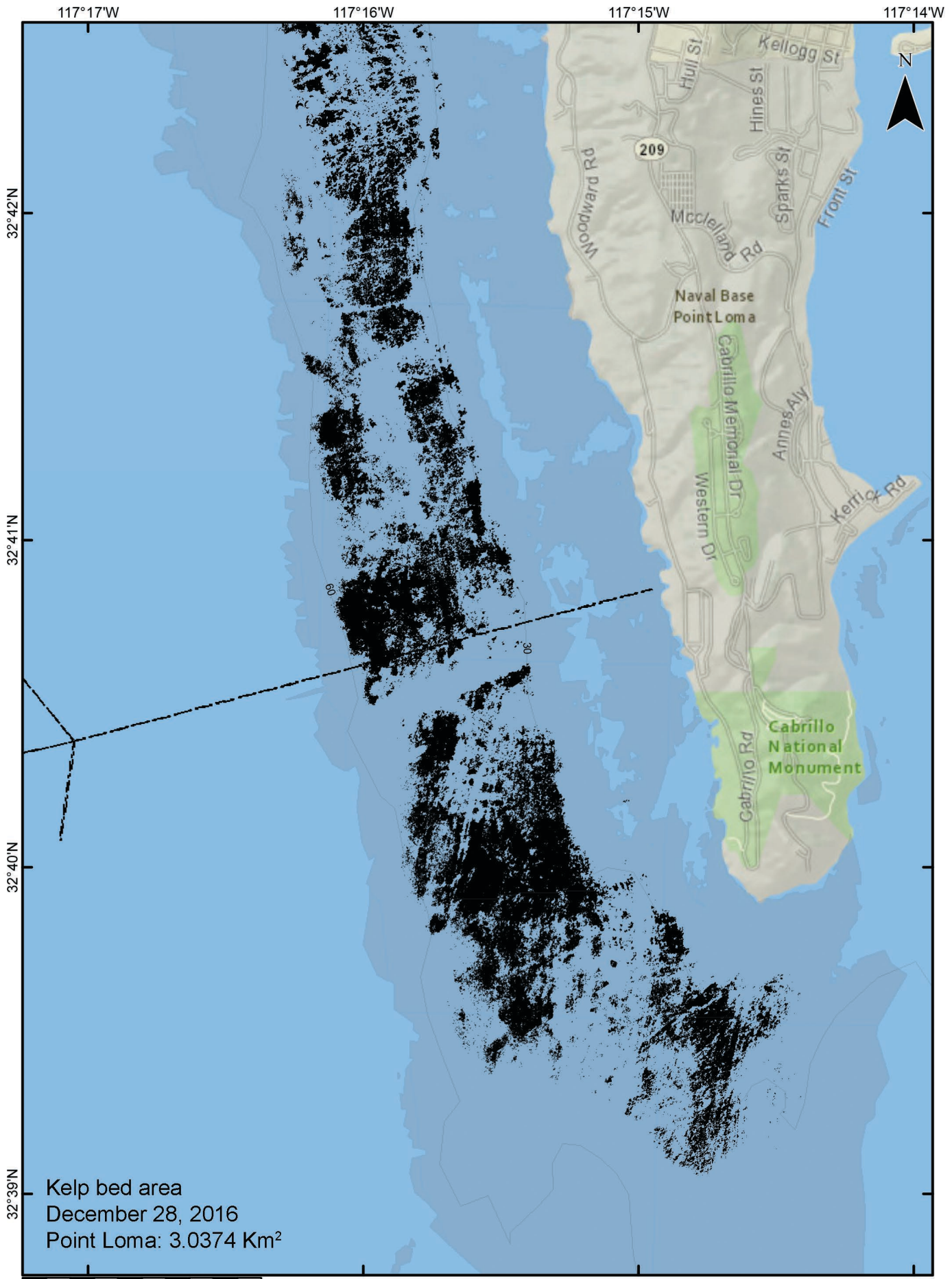
Appendix A.69
La Jolla



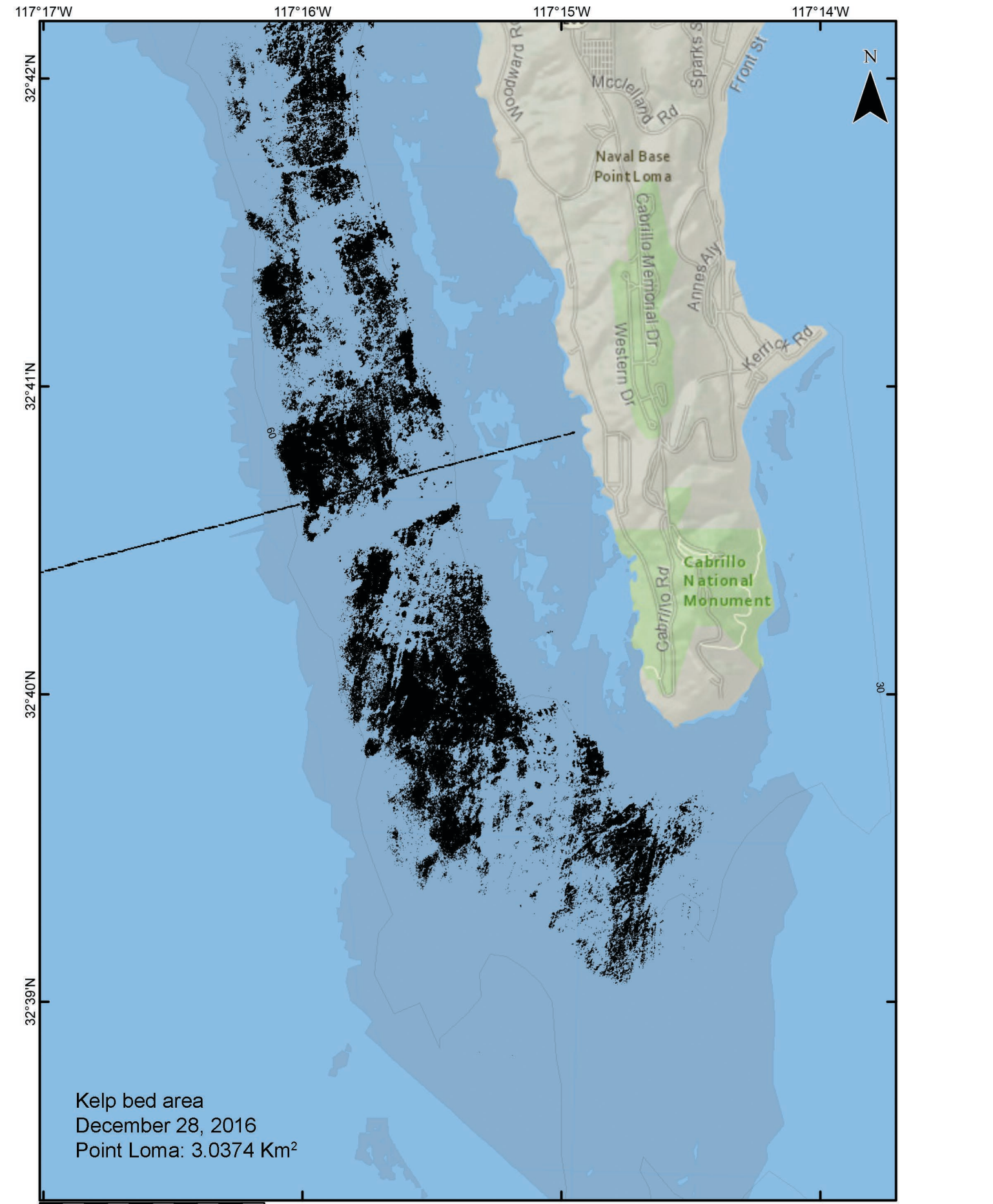
Appendix A.70
La Jolla/ Mission Bay



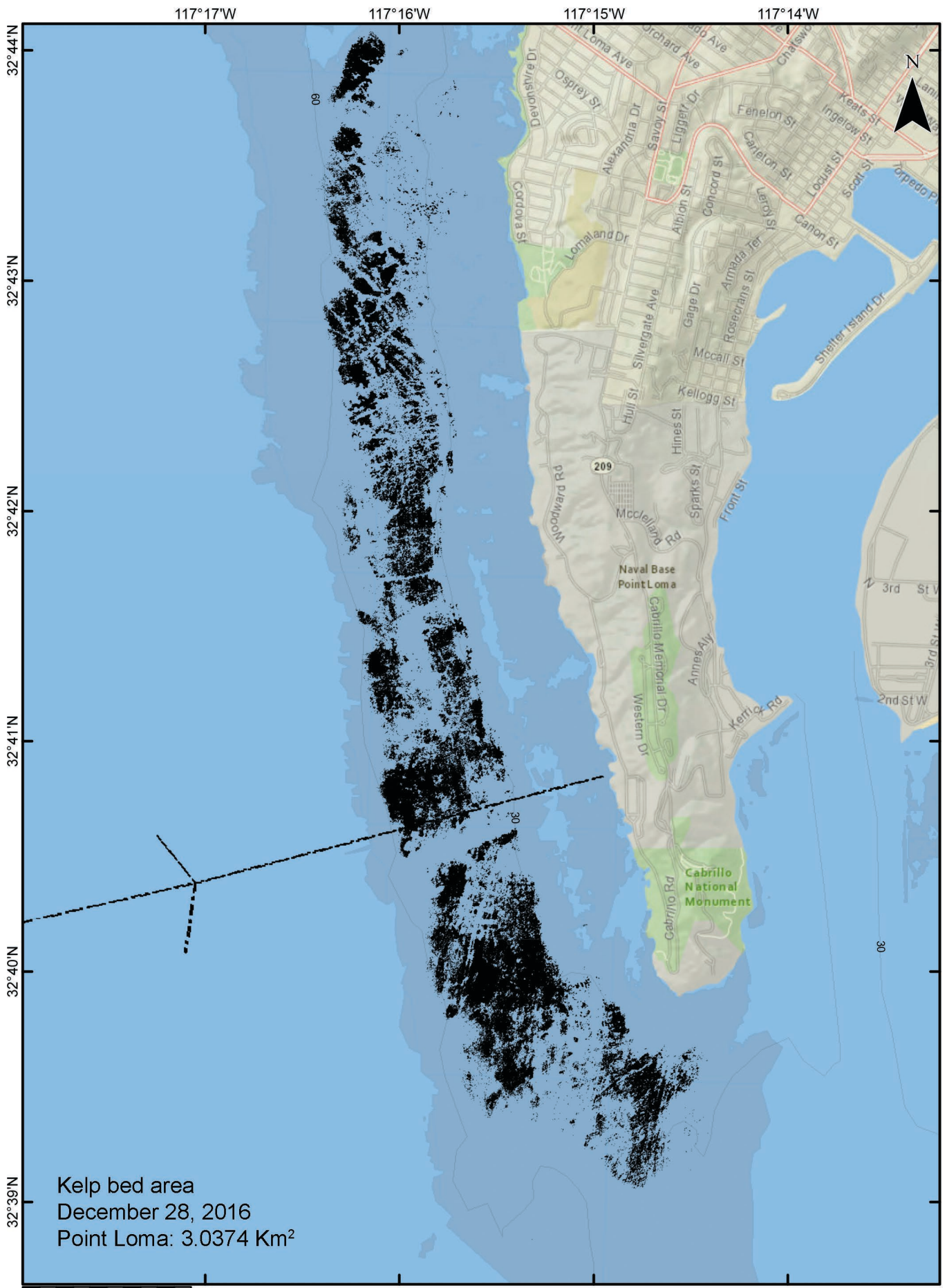
Appendix A.71
Point Loma (Sunet Cliffs)



Appendix A.72
Point Loma (end of peninsula)



Appendix A.73
Point Loma (bay enterance)



1 stat. mi.

1 Km.

Depth contours in feet

1:50,000

Appendix A.74
Point Loma

MBC

Kelp 2016

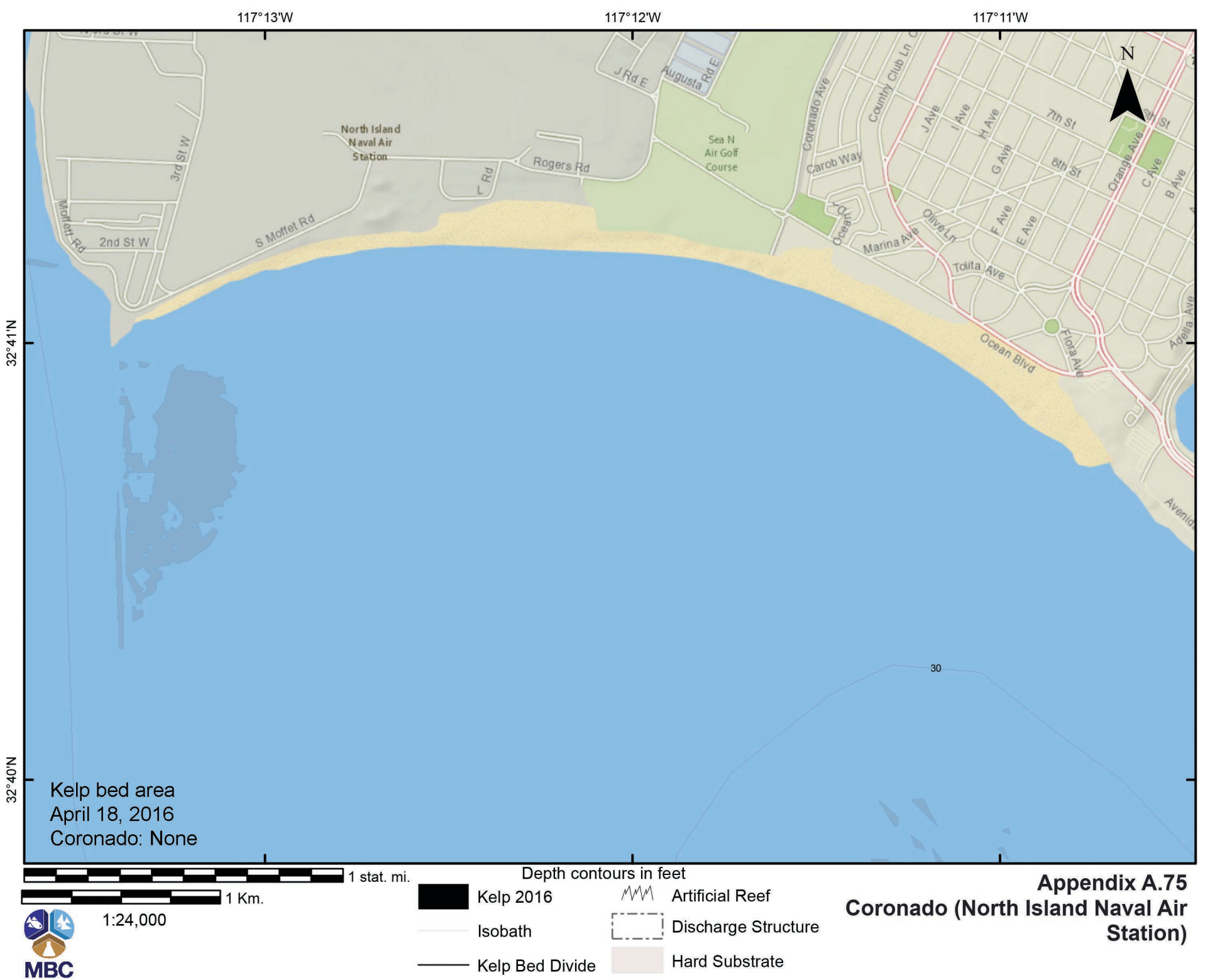
Artificial Reef

Discharge Structure

Isobath

Kelp Bed Divide

Hard Substrate



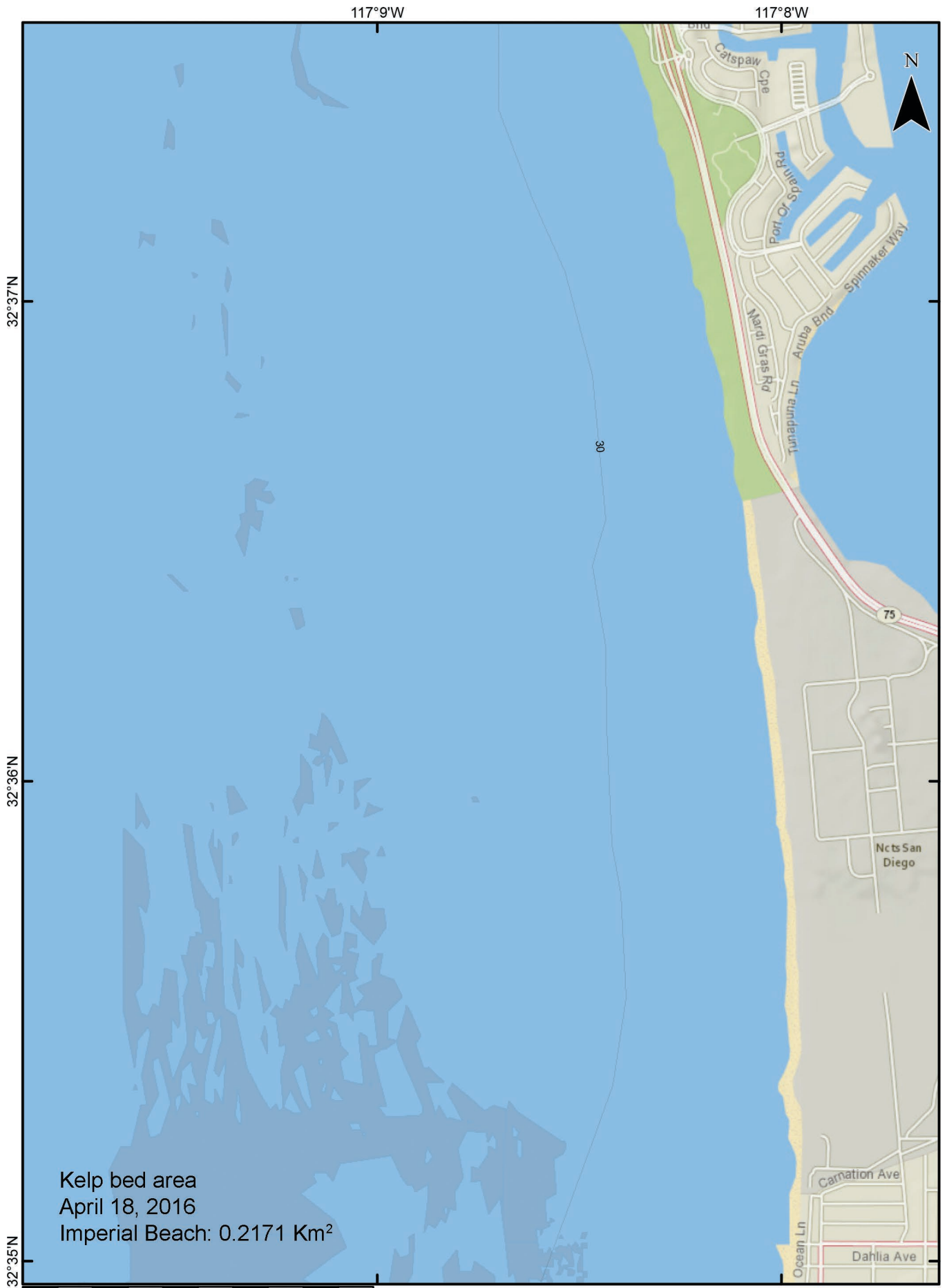
Appendix A.75
Coronado (North Island Naval Air Station)



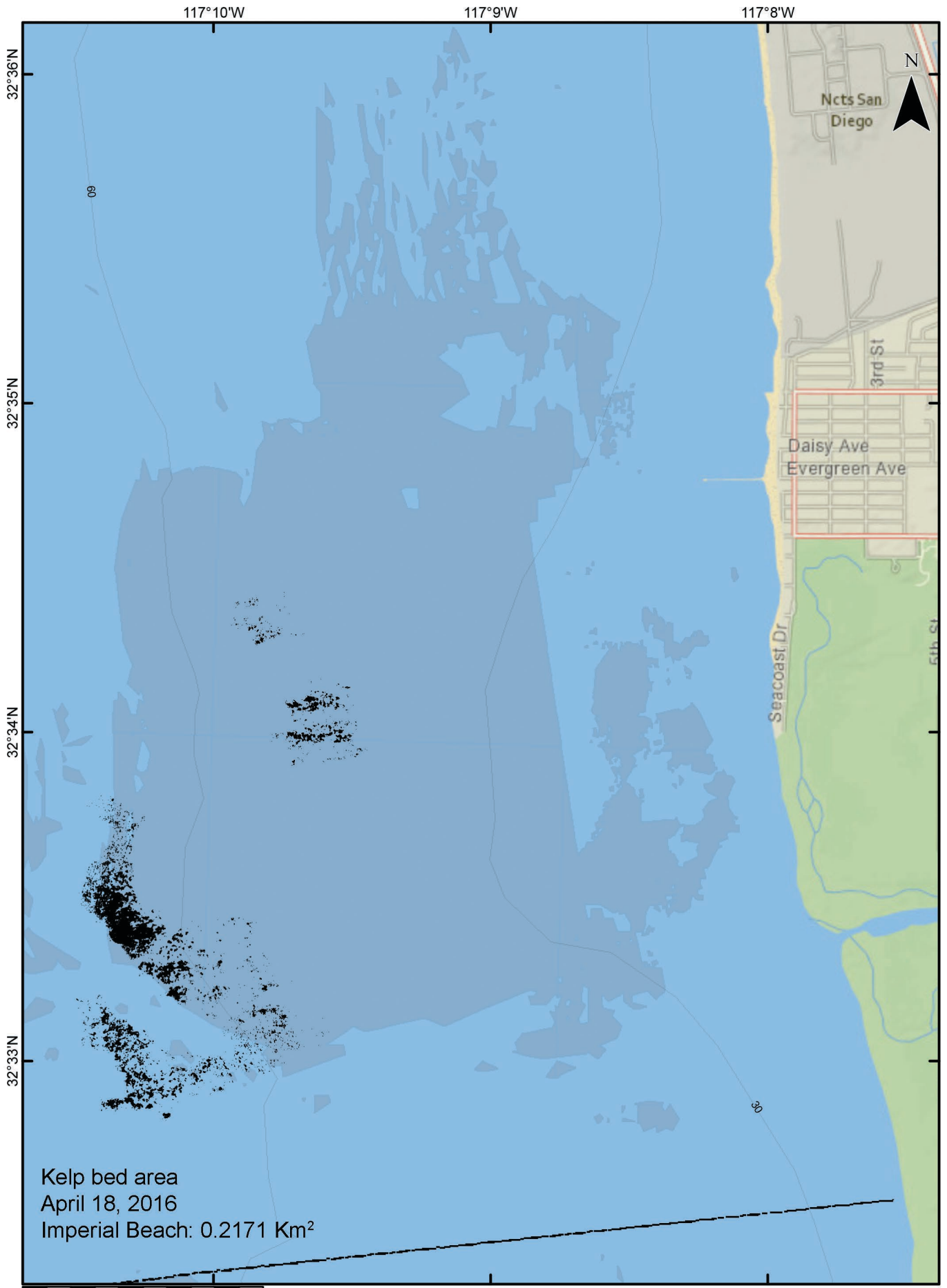
Appendix A.76
Coronado Beach/
Silver Stand (North)



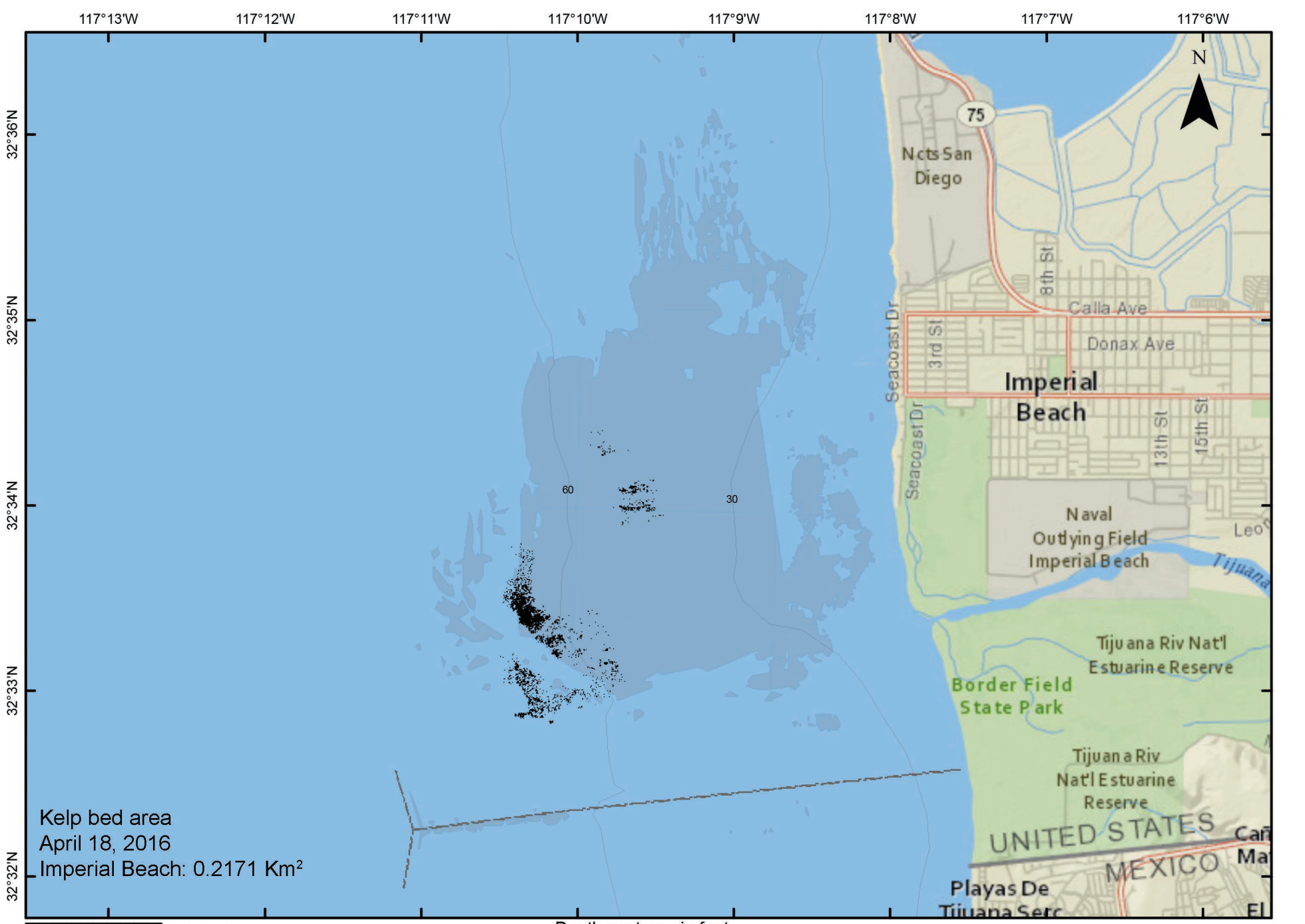
Appendix A.77
Coronado Beach/
Silver Strand
(Central)



Appendix A.78
Imperial Beach



Appendix A.79
Imperial Beach



Appendix A.80
Imperial Beach