

Receiving Waters

The following table (Table 1) shows the receiving waters associated with each impact site for the San Diego Freeway Interstate 405 Improvement Project (Project).

Attachment C - Table 1 -Receiving Waters and Beneficial Uses

I-405 IMPROVEMENT PROJECT RECEIVING WATERS AND BENEFICIAL USES									
Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸	
4-1	Los Alamitos Channel	Stream	Concrete	180701060606	San Gabriel River	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
6-4	Unnamed Ditch	Stream	Concrete	180701060606	San Gabriel River via Montecito Channel to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
7-1	Unnamed Ditch	Stream	Concrete	180701060606	San Gabriel River via Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
7-2	Montecito Channel	Stream	Earthen and concrete	180701060606	San Gabriel River via Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
7-3	Unnamed Ditch	Stream	Concrete	180701060606	San Gabriel River via Montecito Channel to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
7-4	Unnamed Ditch	Stream	Concrete	180701060606	San Gabriel River via Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
7-5	Unnamed Ditch	Stream	Concrete	180701060606	San Gabriel River via Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
7-6	Unnamed channel	Stream	Concrete	180701060606	San Gabriel River via Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
7-7	Seal Beach Boulevard Channel	Stream	Concrete	180701060606	San Gabriel River via Montecito to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
8-1	Unnamed Ditch	Stream	Concrete	180701060606	San Gabriel River via Montecito Channel to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
8-2	Unnamed Flood Control Facility	Stream	Concrete	180701060606	San Gabriel River via Montecito Channel to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
8-3	Unnamed Flood Control Facility	Stream	Concrete	180701060606	San Gabriel River via Montecito Channel to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
9-1	Unnamed Flood Control Facility	Stream	Concrete	180701060606	San Gabriel River via Montecito Channel to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
9-2	Unnamed Flood Control Facility	Stream	Concrete	180701060606	San Gabriel River via Montecito Channel to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A	
10-1	Bolsa Chica Channel (North of 405)	Stream	Earthen and concrete	801.11	Huntington Harbor	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Chlordane, Copper, Lead, Nickel, Pathogens, PCBs, Sediment Toxicity	N/A	

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I-405 IMPROVEMENT PROJECT RECEIVING WATERS AND BENEFICIAL USES									
Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸	
10-2	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
10-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
10-4	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
10-5	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
11-1	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
11-2	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
11-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
11-4	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
11-5	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
11-6	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
11-7	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	

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Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸	
12-1	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
14-1	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
14-2	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
16-1	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
16-2	Anaheim Barber City Channel	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
16-3	Westminster Avenue Channel	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
16-4	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
16-5	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
16-6	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
17-1	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Anaheim Barber City Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
17-2	Unnamed Flood Control Facility	Stream	Concrete	N/A	Street	N/A	N/A	N/A	

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Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸	
17-3	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
17-4	Unnamed Ditch	Stream	Earthen	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
17-5	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
18-1	Unnamed Ditch	Stream	Earthen and concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Anaheim Barber Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
18-2	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Anaheim Barber Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
18-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Anaheim Barber Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
18-4	Westminster Channel	Stream	Concrete	801.11	Huntington Harbor via Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
18-5	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
18-6	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
18-7	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	

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Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸	
18-8	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
19-1	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
19-2	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor via Westminster Avenue Channel to Bolsa Chica Channel	NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Ammonia, Indicator Bacteria, pH	N/A	
20-1	Unnamed Flood Control Facility	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECL, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
21-1	Unnamed Flood Control Facility	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECL, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
21-2	East Garden Grove Wintersburg Channel (West of I-405)	Stream	Concrete	801.11	Bolsa Bay	RECL, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
21-2	East Garden Grove Wintersburg Channel (East of I-405)	Stream	Concrete	801.11	Bolsa Bay	RECL, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
21-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECL, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
21-4	Unnamed Flood Control Facility	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECL, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
21-5	Heil Avenue Storm Channel	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECL, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
22-1	Unnamed Ditch	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECL, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	

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Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸	
22-2	Unnamed Flood Control Facility	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
22-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	East Garden Grove Wintersburg via Ocean View Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
22-4	Unnamed Ditch	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
22-5	Unnamed Ditch	Stream	Concrete	801.11	East Garden Grove Wintersburg via Ocean View Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
22-7	Unnamed Flood Control Facility	Stream	Concrete	801.11	East Garden Grove Wintersburg via Ocean View Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
22-8	Unnamed Flood Control Facility	Stream	Concrete	801.11	East Garden Grove Wintersburg via Ocean View Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
23-1	Ocean View Channel	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
22-6	Unnamed Flood Control Facility	Stream	Concrete	801.11	East Garden Grove Wintersburg via Ocean View Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
23-2	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Talbert Channel	RECI, REC2, COMM, WILD, RARE, BIOL, MAR, EST	N/A	N/A	
23-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Talbert Channel	RECI, REC2, COMM, WILD, RARE, BIOL, MAR, EST	N/A	N/A	
23-4	Unnamed Flood Control Facility	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	RECI, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	

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Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸	
23-5	Unnamed Flood Control Facility	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	REC1, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A	
23-6	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
23-7	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
24-1	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
24-2	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
24-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Fountain Valley Channel to Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
24-4	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Fountain Valley Channel to Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
25-1	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Fountain Valley Channel to Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
25-2	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Fountain Valley Channel to Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
25-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Fountain Valley Channel to Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
25-4	Fountain Valley Channel	Stream	Concrete and riprap	801.11	Talbert Channel to Huntington Beach Wetlands	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	
25-5	Unnamed Flood Control Facility	Stream	Concrete	801.11	Huntington Beach Wetlands via Fountain Valley Channel to Talbert Channel	REC1, REC2, COMM, WILD, RARE, BIOL, MAR	N/A	N/A	

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Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸
26-1	Santa Ana River	Stream	Concrete	801.11	Pacific Ocean	IND, NAV, RECL, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	PCBs, Indicator Bacteria	N/A
26-2	Unnamed Ditch	Stream	Concrete	801.11	Santa Ana River	RECL, REC2, WARM, WILD	N/A	N/A
27-1	Greenville-Banning Channel	Stream	Earthen and riprap	801.11	Santa Ana River	RECL, REC2, WARM, WILD	N/A	N/A
27-2	Unnamed Flood Control Facility	Stream	Concrete	801.10	Greenville Banning Channel	WARM, WILD	N/A	N/A
28-1	Unnamed Ditch	Stream	Concrete	N/A	Street	N/A	N/A	N/A
28-2	Gisler Channel	Stream	Earthen and concrete	801.10	Greenville Banning Channel	WARM, WILD	N/A	N/A
29-1	Unnamed Ditch	Stream	Concrete	801.10	Greenville Banning Channel	WARM, WILD	N/A	N/A
29-2	Unnamed Flood Control Facility	Stream	Concrete	801.11	Newport Back Bay	RECL, REC2, COMM, WILD, RARE, BIOL, SPWN, MAR, SHEL, EST	Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Pesticides, Sediment Toxicity	N/A
30-1	Unnamed Flood Control Facility	Stream	Concrete	801.11	Newport Back Bay	RECL, REC2, COMM, WILD, RARE, BIOL, SPWN, MAR, SHEL, EST	Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Pesticides, Sediment Toxicity	N/A
30-2	Unnamed Ditch	Stream	Concrete	801.11	Newport Back Bay	RECL, REC2, COMM, WILD, RARE, BIOL, SPWN, MAR, SHEL, EST	Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Pesticides, Sediment Toxicity	N/A

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Impact Site ID ¹	Waterbody Name ²	Impacted Aquatic Resource Type ³	Aquatic Resource Description	Water Board Hydrologic Units ⁴	Receiving Waters ⁵	Receiving Waters Beneficial Uses ⁶	303d Listing Pollutant ⁷	eCRAM ID ⁸	
31-1	Unnamed Ditch	Stream	Concrete	801.11	Newport Back Bay	REC1, REC2, COMM, WILD, RARE, BIOL, SPWN, MAR, SHEL, EST	Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Pesticides, Sediment Toxicity	N/A	
31-2	Santa Ana Delhi Channel	Stream	Concrete	801.11	Newport Back Bay	REC1, REC2, COMM, WILD, RARE, BIOL, SPWN, MAR, SHEL, EST	Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Pesticides, Sediment Toxicity	N/A	
31-3	Unnamed Flood Control Facility	Stream	Concrete	801.11	Newport Back Bay	REC1, REC2, COMM, WILD, RARE, BIOL, SPWN, MAR, SHEL, EST	Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Pesticides, Sediment Toxicity	N/A	
31-4	Unnamed Flood Control Facility	Stream	Concrete	801.11	Newport Back Bay	REC1, REC2, COMM, WILD, RARE, BIOL, SPWN, MAR, SHEL, EST	Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Pesticides, Sediment Toxicity	N/A	
101	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor	NAV, REC1, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Chlordane, Copper, Lead, Nickel, Pathogens, PCBs, Sediment Toxicity	N/A	

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102	Unnamed Flood Control Facility	Stream	Concrete	801.11	Newport Back Bay	REC1, REC2, COMM, WILD, RARE, BIOL, SPWN, MAR, SHEL, EST	Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Pesticides, Sediment Toxicity	N/A
103	Unnamed Ditch	Stream	Concrete	180701060606	San Gabriel River via Montecito Channel to Los Alamitos Channel	MUN, WARM, WILD	Coliform Bacteria, pH	N/A
105	Unnamed Ditch	Stream	Concrete	801.11	Santa Ana River	REC1, REC2, WARM, WILD	N/A	N/A
111	Unnamed Ditch	Stream	Concrete	801.11	Huntington Harbor	NAV, REC1, REC2, COMM, WILD, RARE, SPWN, MAR, SHEL	Chlordane, Copper, Lead, Nickel, Pathogens, PCBs, Sediment Toxicity	N/A
115	Unnamed Ditch	Stream	Concrete	801.11	Bolsa Bay via East Garden Grove Wintersburg Channel	REC1, REC2, COMM, BIOL, WILD, RARE, SPWN, MAR, EST	Ammonia	N/A
116	Federal Storm Channel	Stream	Earthen	180701060606	San Gabriel River	MUN, WARM, WILD	Coliform Bacteria, pH	N/A

Notes:

- ¹ Impact site ID may be from the Permittee or staff assigned and should be consistent with the impact table. For combination certification / WDR's include the following: 1) at the end of each impact site ID, include a designation of "I" (federal waters)
- ² May be named or unnamed
- ³ Lake, Ocean, Riparian, Stream, Vernal Pool, Wetland
- ⁴ Basin Plan HUC
- ⁵ First downstream waterbody with beneficial use designation in the basin plan
- ⁶ Beneficial Use Abbreviations: Municipal (MUN), Agriculture (AGR), Industrial Service (IND), Industrial Process (PROC), Groundwater Recharge (GWR), Navigation (NAV), Hydropower (POW), Water Contact Recreation (REC1), Non-contact Water
- ⁷ List Pollutants or N/A
- ⁸ List California Rapid Assessment Method (CRAM) assessment area ID or N/A

Individual Direct Impact Locations and Compensatory Mitigation Information

The following table (Table 2) shows individual impact locations and the compensatory mitigation for each impact site. Note that all impacts for the Project are to be mitigated at one permittee-responsible mitigation site, the Aliso Creek Mitigation Site. Required mitigation is consistent with the approved mitigation ratios for the Measure 2 Environmental Mitigation Program, dated October 21, 2015. Mitigation amount presented for the sum of all permanent impacts, but was not calculated for each individual site.

Attachment C - Table 2

OCTA I-405 IMPROVEMENT PROJECT IMPACTS

Impact Site	Latitude	Longitude	Indirect Impact Requiring Mitigation		Aquatic Resource Description (Channel type given for stream impacts)	Direct Impact Duration ²	TEMPORARY IMPACTS Fill/Excavation Mitigation			PERMANENT DEGRADATION OF ECOLOGICAL FUNCTION Fill/Excavation Mitigation			
			Yes	No			Acres	Linear Feet	on-site/in-kind	Acres	Linear Feet	Mitigation (Aliso Creek)	
4-1 (Los Alamitos Channel)	33.774967*	-118.094876*		x	Concrete	Temporary	0.030	103	0.030				
6-4	33.779872*	-118.085519*		x	Concrete	Temporary	0.200	3226	0.200				
7-1	33.774696*	-118.089768*		x	Concrete	Temporary	0.020	338	0.020				
7-2 (Montecito Channel)	33.775844*	-118.091542*		x	Earthfill	Permanent	0.280	183	0.280		0.100	49	0.386
	33.775054*	-118.093969*		x	Earthfill	Permanent					0.020	171	0.0772
	33.775845*	-118.091727*		x	Wetland	Permanent	0.060	478	0.060				
	33.776145*	-118.091571*		x	Wetland	Permanent	0.020	125	0.020				
7-4	33.775062*	-118.093402*		x	Concrete	Temporary	0.050	2559	0.060				
7-5	33.774031*	-118.088885*		x	Concrete	Temporary	0.070	1023	0.070				
7-6 (Bixby Channel)	33.777309*	-118.088704*		x	Concrete	Temporary	0.020	897	0.020				
7-7 (Seal Beach Boulevard Channel)	33.777371*	-118.088448*		x	Concrete	Temporary	0.030	387	0.030				
8-2	33.774898*	-118.079239*		x	Concrete	Temporary	0.120	2543	0.120				
8-3	33.773873*	-118.079300*		x	Concrete	Temporary	0.080	1164	0.080				
9-1	33.774816*	-118.078018*		x	Concrete	Temporary	0.040	266	0.040				
9-1 (Basin)	33.775349*	-118.072342*		x	Concrete	Temporary	0.820	416	0.820				
9-2	33.774945*	-118.069809*		x	Earthfill	Temporary	0.300	6452	0.300				
10-2	33.774650*	-118.066563*		x	Concrete	Temporary	0.020	454	0.020				
10-3	33.775273*	-118.042428*		x	Concrete	Temporary	0.100	1	0.100				
11-1	33.773984*	-118.041937*		x	Concrete	Temporary	0.100	1447	0.100				
11-2	33.773446*	-118.038531*		x	Concrete	Temporary	0.520	5628	0.520				
11-3	33.769950*	-118.035547*		x	Concrete	Temporary	0.010	34	0.010				
11-4	33.772838*	-118.039242*		x	Concrete	Temporary	0.120	1305	0.120				
11-5	33.773800*	-118.039442*		x	Concrete	Temporary	0.010	167	0.010				
11-6	33.772985*	-118.037490*		x	Concrete	Temporary	0.050	1007	0.050				
11-7	33.770847*	-118.035525*		x	Concrete	Temporary	0.240	5335	0.240				
16-1	33.766234*	-118.030038*		x	Concrete	Temporary	0.010	128	0.020				
16-3 (Westminster Avenue Channel)	33.760302*	-118.022587*		x	Concrete	Temporary	0.140	1233	0.140				
16-4	33.759443*	-118.021573*		x	Concrete	Temporary	0.070	3604	0.070				
16-5	33.759825*	-118.023589*		x	Concrete	Temporary	0.090	652	0.090				
16-6	33.756729*	-118.019762*		x	Concrete	Temporary	0.070	2989	0.070				
17-1	33.752259*	-118.015754*		x	Concrete	Temporary	0.010	404	0.010				
17-2	33.754653*	-118.016156*		x	Concrete	Temporary	0.080	1691	0.080				
17-3	33.752333*	-118.013335*		x	Concrete	Temporary	0.060	1275	0.060				
17-5	33.752281*	-118.014463*		x	Concrete	Temporary	0.020	748	0.020				

Notes:
Wetland impacts occur in channels below OHWM, and are not recorded as loss of wetland area.
No permanent fill/excavation impacts are reported.
All permanent impacts to be mitigated under the Measure 2 Environmental Mitigation Program at the Aliso Creek Mitigation Site at a 3.85:1 ratio.

Attachment C - Table 2

Impact Site	Latitude	Longitude	Indirect Impact Requiring Mitigation		Aquatic Resource Description (Channel type given for stream impacts)	Direct Impact Duration*	TEMPORARY IMPACTS			PERMANENT DEGRADATION OF ECOLOGICAL FUNCTION		
			Yes	No			Acres	Linear Feet	on-site/in-kind	Acres	Linear Feet	Mitigation (Also Creek)
18-1	33.750951*	-118.011634*		x	Earthen	Permanent						
18-1	33.749547*	-118.010079*		x	Concrete	Temporary	0.050	1970	0.050			
18-2	33.749496*	-118.011199*		x	Concrete	Temporary	0.110	2404	0.110			
18-3	33.746612*	-118.005934*		x	Concrete	Temporary	0.040	798	0.040			
18-5	33.745134*	-118.004533*		x	Concrete	Temporary	0.060	847	0.060			
18-6	33.743495*	-118.005634*		x	Concrete	Temporary	0.020	357	0.020			
18-7	33.742887*	-118.003457*		x	Concrete	Temporary	0.050	2016	0.050			
18-8	33.741418*	-118.000433*		x	Concrete	Temporary	0.110	2442	0.110			
19-1	33.738957*	-117.996648*		x	Concrete	Temporary	0.130	2875	0.130			
19-2	33.734989*	-117.993343*		x	Concrete	Temporary	0.130	2928	0.130			
20-1	33.733261*	-117.987538*		x	Concrete	Temporary	0.230	3279	0.230			
21-1	33.727330*	-117.980374*		x	Concrete	Temporary	0.010	49	0.010			
21-2 (East Garden Grove Wintersburg Channel)												
21-3	33.726857*	-117.980238*		x	Concrete	Temporary	0.140	203	0.140			
21-4	33.725625*	-117.978588*		x	Concrete	Temporary	0.090	1990	0.090			
21-5 (Hell Avenue Storm Channel)	33.724236*	-117.977738*		x	Concrete	Temporary	0.070	1484	0.070			
22-1	33.723080*	-117.974925*		x	Concrete	Temporary	0.010	83	0.010			
22-2	33.721996*	-117.973097*		x	Concrete	Temporary	0.010	536	0.010			
22-3	33.721184*	-117.973951*		x	Concrete	Temporary	0.090	1908	0.090			
22-4	33.719504*	-117.970333*		x	Concrete	Temporary	0.090	1977	0.090			
22-5	33.721385*	-117.972909*		x	Concrete	Temporary	0.030	571	0.030			
22-6	33.718973*	-117.970565*		x	Concrete	Temporary	0.070	749	0.070			
22-7	33.717065*	-117.968984*		x	Concrete	Temporary	0.040	690	0.040			
22-8	33.717153*	-117.966251*		x	Concrete	Temporary	0.060	1216	0.060			
23-1 (Ocean View Channel)	33.714699*	-117.966679*		x	Concrete	Temporary	0.030	715	0.030			
23-2	33.717619*	-117.968377*		x	Concrete	Temporary	0.050	226	0.050			
23-3	33.712602*	-117.965650*		x	Concrete	Temporary	0.040	944	0.040			
23-4	33.712183*	-117.963510*		x	Concrete	Temporary	0.020	522	0.020			
23-5	33.715337*	-117.965681*		x	Concrete	Temporary	0.010	324	0.010			
23-6	33.713796*	-117.963433*		x	Concrete	Temporary	0.050	1177	0.050			
23-7	33.711399*	-117.961171*		x	Concrete	Temporary	0.060	1432	0.060			
24-1	33.708528*	-117.959915*		x	Concrete	Temporary	0.030	1316	0.030			
24-1	33.707658*	-117.957647*		x	Concrete	Temporary	0.090	1990	0.090			

Attachment C - Table 2

Impact Sita.	Latitude	Longitude	Indirect Impact Requiring Mitigation		Aquatic Resource Description (Channel type given for stream impacts)	Direct Impact Duration ²	TEMPORARY IMPACTS			PERMANENT DEGRADATION OF ECOLOGICAL FUNCTION		
			Yes	No			Acres	Linear Feet	on-site/in-kind	Acres	Linear Feet	Mitigation (Also Creek)
24-2	33.707910*	-117.956874*		x	Concrete	Temporary	0.050	1009	0.050			
24-3	33.704632*	-117.952663*		x	Concrete	Temporary	0.110	2422	0.110			
24-4	33.701212*	-117.949496*		x	Concrete	Temporary	0.070	2058	0.070			
25-1	33.701008*	-117.947149*		x	Concrete	Temporary	0.040	815	0.040			
25-2	33.699628*	-117.943892*		x	Concrete	Temporary	0.070	1447	0.070			
25-3	33.698480*	-117.940599*		x	Concrete	Temporary	0.060	2466	0.060			
25-4 (Fountain Valley Channel)	33.698736*	-117.941366*		x	Concrete/riprap	Temporary	0.010	38	0.010			
25-4 (Fountain Valley Channel)	33.698736*	-117.941366*		x	Earthen	Permanent				0.020	106	0.0772
25-4 (Fountain Valley Channel)	33.698736*	-117.941366*		x	Earthen	Temporary	0.070	418	0.070			
25-5	33.697666*	-117.940704*		x	Concrete	Temporary	0.050	2337	0.050			
26-1 (Santa Ana River)	33.695727*	-117.934252*		x	Concrete	Temporary	12.900	3420	12.900			
26-2	33.695002*	-117.932530*		x	Concrete	Temporary	0.040	816	0.040			
27-1 (Greenville-Banning Channel)	33.691377*	-117.923478*		x	Earthen (bed only)	Permanent				0.040	73	0.1544
27-1 (Greenville-Banning Channel)	33.691315*	-117.925894*		x	Earthen (bed only)	Temporary	0.080	115	0.080			
27-1 (Greenville-Banning Channel)	33.691339*	-117.923527*		x	Riprap	Temporary	0.050	75	0.050			
27-2	33.691848*	-117.924981*		x	Concrete	Temporary	0.100	537	0.100			
28-1	33.687325*	-117.910255*		x	Concrete	Temporary	0.030	1204	0.030			
28-2 (Gisler Channel)	33.688520*	-117.906341*		x	Earthen	Temporary	0.150	455	0.150			
28-2 (Gisler Channel)	33.688520*	-117.906341*		x	Wetland - in channel	Temporary	0.010	2	0.010			
28-2 (Gisler Channel)	33.688495*	-117.905573*		x	Concrete	Temporary	0.380	526	0.380			
29-1	33.687036*	-117.904816*		x	Concrete	Temporary	0.010	26	0.010			
29-2	33.687982*	-117.895365*		x	Concrete	Temporary	0.040	1829	0.040			
30-2	33.687054*	-117.894692*		x	Concrete	Temporary	0.070	625	0.070			
103	33.773428*	-118.074757*		x	Concrete	Temporary	0.190	1143	0.190			
105	33.688271*	-117.921136*		x	Concrete	Temporary	0.100	922	0.100			
115	33.727195*	-117.981981*		x	Concrete	Temporary	0.050	861	0.050			
116	33.773189*	-118.074062*		x	Earthen	Temporary	1.090	3884	1.090			
116	33.773189*	-118.074062*		x	Wetland in Channel	Temporary	0.050	308	0.050			
TOTAL							21.620	116048	21.620	0.190	399	0.695
TOTAL ALL IMPACTS - Permanent and Temporary							Acres	21,800	on-site/in-kind mitigation	Acres	116,447	permittee responsible mitigation
							Lin. Feet	116,447	Linear Feet	Linear Feet	Linear Feet	Linear Feet