



MARK PESTRELLA, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://pw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

July 12, 2023

IN REPLY PLEASE

REFER TO FILE:

SWM-0

Ms. Celine Gallon
401 Water Quality Certification Section
California Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Dear Ms. Gallon:

**2022-23 ANNUAL MAINTENANCE AND MONITORING REPORT
SOFT-BOTTOM CHANNEL MAINTENANCE PROGRAM
SECTION 401 WATER QUALITY CERTIFICATION ORDER NOS. 99-011 (2018 WDR)
AND 15-038**

The Los Angeles County Flood Control District (LACFCD) is pleased to submit the enclosed 2022-233700-1600 Annual Maintenance and Monitoring Report for the Soft-Bottom Channel (SBC) Maintenance Program, per the requirements of the Section 401 Water Quality Certification Order No. 99-011 and 15-038.

The following are enclosed for your review and approval:

- The Annual Maintenance Report documentation (PDF files) can be accessed in this FTP server: https://ftp.pw.lacounty.gov:8443/pub/fmd/2022-23_SBC_Annual_Maintenance_and_Monitoring_Report/RWQCB/
- 1. Attachment No. 1 – Final 2022-23 SBC Maintenance Schedule
- 2. Attachment No. 2 – Pre- and Post-Clearing Mitigation Forms
- 3. Attachment No. 3 – Pre- and Post-Clearing Biological Resources Monitoring Form
- 4. Attachment No. 4 – Pre-Clearing Surveys and Reports
- 5. Attachment No. 4 – 2022-23 SBC Pre- and Post-Maintenance Photos
- 6. Attachment No. 5 – Water Quality Monitoring Summary Reports
- 7. Attachment No. 6 – Current Waste Discharge Requirements and Clean Water Act Section 401 Water Quality Certifications, Order No.R4-2018-0099, File No. 99-011
- 8. Attachment No. 7 – 2022 Maintenance Methodology Pilot Project Final Study

Ms. Celine Gallon
July 12, 2023
Page 2

SUMMARY OF 2022-23 MAINTENANCE ACTIVITIES

LACFCD was responsible for maintenance of 101 SBC reaches during the 2022-23 SBC maintenance year. Of these 101 SBC reaches, LACFCD maintained a total of 81 reaches during the 2022-23 maintenance clearing period.

Per the attached Biological Resources Monitoring Forms, our biological consultant monitored our SBC maintenance activities and confirmed that maintenance activities were performed in full compliance with the conditions of our maintenance permits.

A final pilot study was conducted upon the WDR requirements on 20, and 21. Detailed reports containing the results are enclosed.

This letter also serves as certification that no net loss of wetland habitat is associated with this project:

"I declare under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Executed on July 13, 2023, in Alhambra, California.

Ms. Celine Gallon
July 12, 2023
Page 3

If you have any questions regarding this report, please contact Mr. Ahmet Tatilioglu of my staff at (626) 458-7810 or atatilioglu@pw.lacounty.gov.

Very truly yours,

MARK PESTRELLA, PE
Director of Public Works



JOLENE GUERRERO, PE
Assistant Deputy Director
Stormwater Maintenance Division

JR:sl

\\pw01\pwpublic\fldpub\General\Jessica Rojas\2022-2023 SBC Annual Maintenance and Monitor Reporting\2. USACE Submittal\2023-22 USACE SBC Annual Report Cover Letter.docx

Enc.

cc: Regional Water Quality Control Board (Celine Gallon, Snejana Toneva)

ATTACHMENT NO. 1
FINAL 2022-23 ANNUAL SOFT-BOTTOM CHANNEL
MAINTENANCE SCHEDULE

[This page is intentionally left blank]

FINAL 2022-23 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Maintenance Date		Comments/ Recommendations
				Start	Completion	
1	Bell Creek - MTD 963 M.C.I.	West	Non-sensitive	1/20/2023	1/23/2023	
2	Dry Canyon (Calabasas) PD T1845	West	Non-sensitive	10/3/2022	10/27/2022	
3	Santa Susana Ck M.C.I.	West	Non-sensitive	10/3/2022	10/3/2022	
4	Brown Creek	West	Non-sensitive	9/28/2022	10/17/2022	
5	Caballero Creek M.C.I. (West Fork)	West	Non-sensitive	2/7/2023	2/9/2023	
6	Caballero Creek M.C.I. (East Fork)	West	Non-sensitive	2/9/2023	2/9/2023	
7	Bull Creek M.C.	West	Sensitive	No maintenance done		
8	Hayvenhurst Drain - Project 470 Outlet	West	Non-sensitive	12/20/2022	1/25/2023	
9	Project 106 Outlet	West	Non-sensitive	10/3/2022	10/25/2022	MMPP Reach
10	Project No. 469	West	Non-sensitive	10/19/2022	11/2/2022	
12	Haines Canyon M.C.O.	West	Sensitive	2/14/2023	2/16/2023	
13	Project No. 5215 Unit 1	West	Non-sensitive	10/13/2022	10/13/2022	
14	May Channel M.C.O. (into Pacoima Canyon)	West	Sensitive	10/14/2022	10/14/2022	
15	Pacoima Wash	West	Non-sensitive	9/19/2022	9/29/2022	
16	Verdugo Wash - Las Barras Canyon	West	Non-sensitive	2/3/2023	2/3/2023	
18	Engleheard Channel	West	Non-sensitive	2/3/2023	2/3/2023	
19	Pickens Canyon	West	Non-sensitive	2/6/2023	2/7/2023	
20	Webber Channel (@ private bridge)	West	Non-sensitive	2/1/2023	2/1/2023	MMPP Reach
21	Webber Channel (@ downstream of bridge)	West	Non-sensitive	2/1/2023	2/1/2023	MMPP Reach
22	Halls Canyon	West	Non-sensitive	3/8/2023	3/8/2023	
24	Compton Creek	South	Non-sensitive	9/16/2022	10/27/2022	MMPP Reach
25a	Los Angeles River - Willow to PCH (East/Left Bank)	South	Non-sensitive	10/17/2022	10/25/2022	MMPP Reach
25b	Los Angeles River - Willow to PCH (West/Right Bank)	South	Non-sensitive	10/17/2022	11/3/2022	MMPP Reach
26	Project 74	South	Non-sensitive	9/16/2022	10/3/2022	
27	Wilmington Drain	South	Sensitive	9/6/2022	10/4/2022	
28	Triunfo Creek (PD T2200)	West	Sensitive	1/27/2023	2/1/2023	
29	Las Virgines Creek (PD T1684) M.C.I.	West	Non-sensitive	2/17/2023	2/22/2023	Sensitive Reach - CRLF focused survey conducted by biologist 7 days prior to starting work.
32	Stokes Channel (PDT043)	West	Non-sensitive	11/16/2022	12/16/2022	
33	Medea Creek (PD T1378)	West	Non-sensitive	No maintenance done		
35	Medea Creek - Main	West	Non-sensitive	No maintenance done - Under construction		
36	Cheseboro Inlet (PDT043)	West	Non-sensitive	1/25/2023	1/25/2023	
37	Medea - Cheseboro Outlet	West	Non-sensitive	1/24/2023	1/24/2023	
38	Lindero M.C.O.	West	Non-sensitive	2/1/2023	2/6/2023	
39	Beatty Channel Outlet @ SGR	East	Sensitive	12/1/2022	12/31/2022	
40a	(a) San Gabriel River – Santa Fe Dam to I-10 Freeway	East	Non-sensitive	1/1/2023	3/1/2023	
40b	(b) San Gabriel River – I-10 Freeway to Thienes Avenue	East	Sensitive	3/1/2023	3/24/2023	Authorized by permitting agencies to work beyond the bird nesting season. Work performed in accordance to the permits' conditions.
41	Walnut Creek	East	Non-sensitive	11/7/2022	11/30/2022	
42	San Jose Creek d/s 1000' from end of concrete channel	East	Non-sensitive	No maintenance done		
43a	(a) San Gabriel River- Upper	South	Sensitive	9/19/2022	11/30/2022	
43b	(b) San Gabriel River- Lower	South	Sensitive	9/19/2022	11/30/2022	

FINAL 2022-23 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Maintenance Date		Comments/ Recommendations
				Start	Completion	
44	San Gabriel River - Rubber Dams	South	Non-sensitive	9/19/2022	11/21/2022	
45	Sand Canyon (PD T1307) Main Channel Inlet	West	Non-sensitive	No Maintenance Done - Under Construction		
46	Sand Canyon (PD T1307) Main Channel Outlet	West	Non-sensitive	No Maintenance Done - Under Construction		
47	Santa Clara River Main Channel (PD T1733-Unit 1)	West	Sensitive	10/11/2022	10/12/2022	
48	Mint Canyon Channel between Sierra Highway & Adon Avenue	West	Non-sensitive	10/24/2022	10/31/2022	
49	Mint Canyon Channel between Adon Avenue & Scherzinger Lane	West	Non-sensitive	10/24/2022	10/31/2022	
50	Mint Canyon Channel between Solamint & Soledad	West	Non-sensitive	No maintenance done - Due to City of Santa Clarita construction in the Reach		
51	Mint Canyon M.C.O. (PD 1894)/Santa Clara River – Main Channel	West	Sensitive	No maintenance done		
52	Sierra Hwy Rd Drainage (CDR 523.203)	West	Non-sensitive	No maintenance done - Due to City of Santa Clarita construction in the Reach		
53	Santa Clara River Non-main Chnl. (PD 832) M.C.I.	West	Non-sensitive	10/18/2022	10/18/2022	
54	Santa Clara River Non-Main Channel (PD 832) Main Channel Outlet	West	Sensitive	10/17/2022	10/17/2022	
55	Santa Clara River Main Channel – Right Bank Reach (PD's 910, 832, 1758, & 1562 Unit 2)	West	Sensitive	10/12/2022	10/14/2022	
56	Santa Clara River Main Channel – Left Bank Reach (PD 832)	West	Sensitive	10/17/2022	10/17/2022	
57	Whites Canyon (PD T704 M.C.I.)	West	Non-sensitive	No maintenance done - Converted to CLC - Pending Transfer		
58	Santa Clara River Main Channel – Right Bank Reach (PD 374)	West	Sensitive	10/13/2022	10/17/2022	
60	Santa Clara River Main Channel – Right Bank Reach (PD's 1339 and 374)	West	Sensitive	10/11/2022	10/14/2022	
61	Santa Clara River Main Channel (PD 659 & 754)	West	Sensitive	10/11/2022	10/12/2022	
63	Oak Ave Rd Drainage (CDR 523.081)	West	Sensitive	10/31/2022	10/31/2022	
64	Soledad Canyon Road Drain (CDR 523.071 D outlet)	West	Sensitive	10/17/2022	11/10/2022	
66	Santa Clara River Main Channel (PD 1538)	West	Sensitive	11/7/2022	11/7/2022	
67	Bouquet Canyon Upper (PD's 1201, 802, 700B, & 625)	West	Sensitive	9/12/2022	9/16/2022	
69	Bouquet Canyon Middle (PD's 722, 773, 1365, 1065, & 451)	West	Sensitive	9/15/2022	9/16/2022	
70	Bouquet Canyon Lower (PD's 544 & 345)	West	Sensitive	9/21/2022	9/23/2022	
71	Santa Clara River Main Channel (PD 1946)	West	Sensitive	10/12/2022	10/12/2022	
72	South Fork- SCR (Smizer Ranch M.C.I.)	West	Non-sensitive	10/20/2022	10/20/2022	
73	Wildwood Cyn Chnl (PD T361) M.C.I.	West	Non-sensitive	11/7/2022	11/7/2022	
75	South Fork-Santa Clara River (PD's 725, 916, 1041, & 1300)	West	Sensitive	9/26/2022	10/6/2022	
76	Pico Canyon (PD 813)	West	Sensitive	9/28/2022	10/4/2022	
77	Newhall Creek Outlet	West	Sensitive	10/7/2022	10/7/2022	
78	Placerita Creek	Wes	Sensitive	10/7/2022	10/7/2022	
79	South Fork- Santa Clara River (Valencia Boulevard Bridge Stabilizer)	West	Sensitive	10/11/2022	10/12/2022	
80	South Fork-Santa Clara River (PD's 1947 & 1946)	West	Sensitive	10/11/2022	10/12/2022	
82	Santa Clara River Main Channel (PD 2278)	West	Sensitive	10/28/2022	10/28/2022	
86	Violin Canyon Main Channel Outlet	West	Sensitive	10/19/2022	10/21/2022	
87	Castaic- Old Road Drainage (CDR 525.021D) Outlet	West	Sensitive	10/20/2022	10/20/2022	
88	Hasley Canyon Upper (PD T1496)	West	Non-sensitive	10/20/2022	10/24/2022	
89	Hasley Canyon South Fork (PD T1496)	West	Non-sensitive	10/24/2022	10/24/2022	
90	Hasley Canyon Lower (North Fork PD T1496)	West	Non-sensitive	10/24/2022	10/24/2022	
91	San Martinez Chiquito Canyon Channel u/s of Kennington Road	West	Non-sensitive	10/25/2022	10/25/2022	

FINAL 2022-23 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Maintenance Date		Comments/ Recommendations
				Start	Completion	
92	San Martinez Chiquito Canyon (North Fork) unnamed	West	Non-sensitive	10/25/2022	10/25/2022	
93	San Martinez Chiquito Canyon between Keningston Road and Val Verde Park	West	Non-sensitive	10/26/2022	10/26/2022	
94	San Martinez Chiquito Canyon between Val Verde Park to d/s of Madison Street	West	Non-sensitive	10/24/2022	10/26/2022	
95	Project No. 1224	West	Non-sensitive	11/1/2022	11/7/2022	
96	PD 1591, Calabasas	West	Non-sensitive	11/2/2022	11/15/2022	
97	PD T1982, Castaic Creek	West	Sensitive	10/3/2022	10/5/2022	
98	Walnut Creek – Channel Inlet	East	Non-sensitive	10/14/2022	10/14/2022	
99	Kagel Canyon – Tujunga Wash	West	Non-sensitive	9/16/2022	9/28/2022	
100	Dry Canyon, Calabasas Creek Inlet	West	Non-sensitive	1/19/2023	1/19/2023	
101	Violin Canyon (PD 2312)	West	Non-sensitive			No maintenance done
102	Violin Canyon (PD 2275)	West	Non-sensitive			No maintenance done
103	Bouquet Canyon Channel (PD 2225)	West	Sensitive			No maintenance done
104	Castaic Creek (PD 2441 Unit 2)	West	Sensitive			No maintenance done
105	San Francisquito Canyon Channel (PD 2456)	West				No maintenance done
108	Pico Canyon (PD 2528)	West	Non-sensitive	10/6/2022	12/6/2022	
109	Santa Clara River - South Bank West of Mcbean Parkway (MTD1510)	West	Sensitive			No maintenance done
110	Hasley Canyon Channel (PD2262)	West	Sensitive			No maintenance done
112 Upper	Ballona Creek	South	Non-sensitive	12/13/2022	1/6/2023	Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)
112 Lower	Ballona Creek	South	Non-sensitive			No maintenance done
113	Dominguez Channel	South	Non-sensitive			No maintenance done
114	Los Angeles River	South	Non-sensitive			No maintenance done
115	San Gabriel River	South	Sensitive			No maintenance done
118	Rustic Canyon	South	Non-sensitive	10/1/2022	10/11/2022	Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)
119	Rivas Canyon	South	Non-sensitive	9/30/2022	10/1/2022	Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)

[This page is intentionally left blank]

ATTACHMENT NO. 2
PRE- AND POST-CLEARING MITIGATION FORMS

[This page is intentionally left blank]

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 1 Bell Creek MTD 963**

T.G.: 529-D5

Permit Requirements:

The channel clearing work will involve hand cutting a 15-foot-wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the channel inlet.

The operator shall not impact the 0.27-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

REMOVAL OF VEGETATION WAS DONE WITH HAND TOOL AND
POWERTOOLS, HEDGE TRIMMERS, WEED EATERS AND POLESAWS
WERE USED WITH APPROVED EXHAUST. ALL VEGETATION WAS
HAND LOADED ON TRUCK.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 1/20/23

Project end date: 1/23/23

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 1/23/23

Approved by: Name: LUIS MONTES DE OCA Title: F · C · C · S Date: 1/24/23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 3597

Location/Channel Reach #: **Reach No. 1 Bell Creek MTD 963** T.G.: **529-D5**

Permit Requirements:

The channel clearing work will involve hand cutting a 15-foot-wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the channel inlet.

The operator shall not impact the 0.27-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 1/23/23

Approved by: Name: LUIS MONTES DE OCA Title: F.C.C.S Date: 1/24/23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach #: **Reach No. 1 Bell Creek MTD 963**

T.G.: **529-D5**

Permit Requirements:

The channel clearing work will involve hand cutting a 15-foot-wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the channel inlet.

The operator shall not impact the 0.27-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

REMOVAL OF ALL VEGETATION WAS COMPLETED WITH HAND TOOLS AND POWER TOOLS SUCH AS WEED EATERS, HEDGE TRIMMERS AND POLESAW. ALL VEGETATION WAS HAND LOADED.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 1/23/23

Approved by: Name: LUIS MONTES DE OCA

Title: F.C.C.S Date: 1/24/23

**ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach # 2 Dry Canyon (Calabasas) (PD T1845) T.G.: 559-G5**

Permit Requirements:

The channel clearing work will involve maintaining and clearing a 20-foot-wide path along the centerline of the channel. A canopy of vegetation (trees along both banks) will be left in place. Hand clearing will be performed annually to keep the center portion of the channel clear and vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls.

The Operator shall not impact the 0.39-acre of vegetation that was allowed to remain in 1997. Trees with a 3-inch DBH or greater shall not be removed. All exotics shall be selectively removed from the area during maintenance activities.

Description of Activity/Method of Implementation:

ALL VEGETATION REMOVED BY HAND TOOLS AND POWER TOOLS. POWER TOOLS CONSISTING OF WEED EATERS, HEDGERS AND CHAINSAWS, ALL EQUIPPED WITH APPROVED EXHAUST.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below).
- Mitigation measure is not in compliance. Further action is required. (Please explain below).

Comments/Revisions:

Project start date: 10/3/22

Project end date: 10/27/22

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 10/27/22

Approved by: Name: _____ Title: _____ Date: _____

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 31.99 tons

Mitigation Measure #: **2** Exotic Veg. Removed (Sq. Ft.) 539 FT.

Location/Channel Reach#: **Reach # 2 Dry Canyon (Calabasas) (PD T1845)** T.G.: **559-G5**

Permit Requirements:

The channel clearing work will involve maintaining and clearing a 20-foot-wide path along the centerline of the channel. A canopy of vegetation (trees along both banks) will be left in place. Hand clearing will be performed annually to keep the center portion of the channel clear and vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls.

The Operator shall not impact the 0.39-acre of vegetation that was allowed to remain in 1997. Trees with a 3-inch DBH or greater shall not be removed. All exotics shall be selectively removed from the area during maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH

Biologist on site: s No **Date:** _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Morille Title: CREW LEADER Date: 10/27/22

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach # 2 Dry Canyon (Calabasas) (PD T1845)** T.G.: **559-G5**

Permit Requirements:

The channel clearing work will involve maintaining and clearing a 20-foot-wide path along the centerline of the channel. A canopy of vegetation (trees along both banks) will be left in place. Hand clearing will be performed annually to keep the center portion of the channel clear and vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls.

The Operator shall not impact the 0.39-acre of vegetation that was allowed to remain in 1997. Trees with a 3-inch DBH or greater shall not be removed. All exotics shall be selectively removed from the area during maintenance activities.

Description of Activity/Method of Implementation:

ALL POWER TOOLS ARE EQUIPPED WITH APPROVED EXHAUST MUFFLERS FOR NOISE REDUCTION.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 10/27/22

Approved by: Name: _____

Title: _____ Date: _____

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name DRY CANYON (CALABAZAS) PD 1845
 Reach Number #2

Date	Air	H2O	Noise	Comment	Initial
10/3/22	✓	✓	✓	STRAW BALE PLACED AT END OF REACH.	R.M.
10/4/22	✓	✓	✓		R.M.
10/5/22	✓	✓	✓		R.M.
10/6/22	✓	✓	✓		R.M.
10/7/22	✓	✓	✓		R.M.
10/8/22	✓	✓	✓		R.M.
10/11/22	✓	✓	✓		R.M.
10/12/22	✓	✓	✓		R.M.
10/13/22	✓	✓	✓		R.M.
10/14/22	✓	✓	✓		R.M.
10/17/22	✓	✓	✓		R.M.
10/18/22	✓	✓	✓		R.M.

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name DRY CANYON (CALABASKAS) PD 1845
 Reach Number #2

Date	Air	H2O	Noise	Comment	Initial
10/19/22	✓	✓	✓		RM
10/20/22	✓	✓	✓		RM
10/21/22	✓	✓	✓		RM
10/24/22	✓	✓	✓		RM
10/25/22	✓	✓	✓		RM
10/26/22	✓	✓	✓		RM
10/27/22	✓	✓	✓	LAST DAY - COMPLETED REMOVED STRAW BAGE FROM REACH	RM

2022-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM



Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 3 Santa Susanna Creek M.C.I.**

T.G.: 499-J2

Permit Requirements:

Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75-foot-long area at the inlet to the channel. Oak trees will be left in place.

Description of Activity/Method of Implementation:

NO FLOWING WATER NO BMP NEEDED ALL VEGETATION WAS
CLEARED BY HAND AND SMALL POWER TOOL WERE ALSO
USED. ALL VEGETATION WAS PLACED IN A TARP AND HAULED
OUT AND LOADED INTO A TRUCK.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

WORK AREA WAS INSPECTED FOR BIRD NESTING NO NESTING
WAS FOUND.

Project start date: 10-3-22

Project end date: 10-3-22

Completed by: Name: Juan Rodarte Title: P.W.C-L Date: 10-3-22

Approved by: Name: M. Olimpio Title: FCCS Date: 10-3-22

2022-2023

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**



Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 1.00

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: #: **Reach No. 3 Santa Susanna Creek M.C.I.** T.G.: **499-J2**

Permit Requirements:

Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75-foot-long area at the inlet to the channel. Oak trees will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- ESC1 Scheduling ESC2 Preservation of Existing Vegetation
- ESC21 Dust Control ESC22 Temporary Stream Crossing
- ESC31 Temporary Drains and Swales ESC50 Silt Fence
- ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: Yes No **Date:** _____

Biologist Comments/Instructions:

Completed by: Name: Juan Rodarte Title: P.W.C.L Date: 10-3-22

Approved by: Name: [Signature] Title: FCC S Date: 10-3-22

2022-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM



Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: #: **Reach No. 3 Santa Susanna Creek M.C.I.** T.G.: 499-J2

Permit Requirements:

Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75-foot-long area at the inlet to the channel. Oak trees will be left in place.

Description of Activity/Method of Implementation:

NO EXCESSIVE NOISE DUE TO ALL HAND WORK AND SMALL
POWER TOOLS WERE USED. WORK TRUCKS WERE PARKED
IN A DESIGNATED AREA WITH ENGINES OFF.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

BEFORE, DURING AND AFTER PHOTOS WERE TAKEN
AND DOWNLOADED INTO COMPUTERS P.DRIVE.

Completed by: Name: JUAN RODARTE

Title: P.W.C.L Date: 10-3-22

Approved by: Name: 

Title: FCCS Date: 10-3-22

2022-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM



Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 4 Browns Creek** T.G.: 500-B2

Permit Requirements:

Mechanical equipment will be used to keep clear all vegetation from bank to bank within the rail and timber revetment.

Description of Activity/Method of Implementation:

NO BMP NEEDED NO FLOWING WATER ON CREEK. HAND CLEARING WAS PERFORMED USING HAND TOOLS. ALSO POWER TOOLS WERE USED SUCH AND POWER TWO STROKE HEDGERS, CHAINSAW, WEED TRIMMERS AND A POLE CHAIN SAW.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

BIRD SURVEY WAS PERFORMED BEFORE WORK BEGIN EACH DAY NO BIRD NEST WAS FOUND.

Project start date: 9-28-22

Project end date: 10-17-22

Completed by: Name: Juan Rodarte Title: P.W.C.L Date: 10-17-22

Approved by: Name: M. Medina Title: FCCS Date: 10-17-22

2022-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM



Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 1/2 TON

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 100'

Location/Channel Reach#: **Reach No. 4 Browns Creek**

T.G.: **500-B2**

Permit Requirements:

Mechanical equipment will be used to keep clear all vegetation from bank to bank within the rail and timber revetment.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO BMP NEEDED NO FLOWING WATER CREEK COMPLETELY DRY. BEFORE, DURING, AND AFTER PHOTOS WERE TAKEN.

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Juan Rodarte

Title: P.W.C.L Date: 10-17-22

Approved by: Name: [Signature]

Title: FCCS Date: 10-17-22

2022-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM



Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 4 Browns Creek** T.G.: **500-B2**

Permit Requirements:

Mechanical equipment will be used to keep clear all vegetation from bank to bank within the rail and timber revetment.

Description of Activity/Method of Implementation:

WORK STARTED AT A REASONABLE HOUR. HAND TOOL WERE USED AND SMALL POWER TOOLS WERE ALSO USED.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: Juan Rodarte

Title: P.W. C.L. Date: 10-17-22

Approved by: Name: CM. Dyfio

Title: FCCS Date: 10-17-22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 5 Caballero M.C.I. (West Fork)** T.G.: 560-J5

Permit Requirements:

The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED WITH HAND/POWER TOOLS
WHICH ARE ALL EQUIPPED WITH PROPER AIR FILTERS

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 2/7/23

Project end date: 2/9/23

Completed by: Name: ANTHONY MIRANO Title: PWCL Date: 2/7/23

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 22.66

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) N/A

Location/Channel Reach#: **Reach No. 5 Caballero M.C.I. (West Fork)** T.G.: 560-J5

Permit Requirements:

The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

STRAW WADDLE BOOM PLACED AT END OF REACH.

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: ANTHONY MIRANO Title: PWCL Date: 2/7/23

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 5 Caballero M.C.I. (West Fork)** T.G.: 560-J5

Permit Requirements:

The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL HAND / POWER TOOLS USED ON THE JOB ALL
HAVE PROPER NOISE SUPPRESSORS.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL WORK STARTED AFTER 6AM SO RESIDENTS
WERE NOT DISTURBED.

Completed by: Name: ANTHONY MIRANO

Title: PNCL Date: 2/7/23

Approved by: Name: _____

Title: _____ Date: _____

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name CABALLERO CREEK
 Reach Number 5

Date	Air	H2O	Noise	Comment	Initial
2/7/23	X	X	X	SPAN WADLE BOM IN PLACE TO END OF REACH	Am
2/8/23	X	X	X		Am
2/9/23	X	X	X	JOB COMPLETED	Am

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 6 Caballero Creek (East Fork)** T.G.: 560-J5

Permit Requirements: *The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.*

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities. Exotics shall be removed during maintenance activities.

Description of Activity/Method of Implementation:

ALL HAND/POWER TOOLS ARE EQUIPPED WITH PROPER AIR FILTERS. ←

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 2/9/23

Project end date: 2/9/23

Completed by: Name: ANTHONY MIRANO Title: PNCL Date: 2/9/23

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0.11

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) N/A

Location/Channel Reach#: **Reach No. 6 Caballero Creek (East Fork)** T.G.: **560-J5**

Permit Requirements: *The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.*

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities. Exotics shall be removed during maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

STRAW WADDLE BOOM PLACED AT END OF REACH.

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: ANTHONY MIRANO Title: PNCL Date: 2/9/23
Approved by: Name: _____ Title: _____ Date: _____

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 6 Caballero Creek (East Fork)** T.G.: **560-J5**

Permit Requirements: *The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.*

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities. Exotics shall be removed during maintenance activities.

Description of Activity/Method of Implementation:

ALL HAND/POWER TOOL CONTAIN PROPER NOISE
SUPPRESSORS.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL WORK STARTED AFTER 8AM, SO RESIDENTS WERE
NOT DISTURBED

Completed by: Name: ANTHONY MIRANO Title: PNCL Date: 2/9/23
Approved by: Name: _____ Title: _____ Date: _____

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name CABALERO CREEK (EAST FORK)

Reach Number 6

Date	Air	H2O	Noise	Comment	Initial
2/9/23	X	X	X	STRAW WADDLER PLACED @ END OF REACH. JOB COMPLETED.	AM

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 8 Project 470 Outlet**

T.G.: 561-E3

Permit Requirements:

All vegetation in the channel will be kept clear during the dry season using hand-clearing methods.

Description of Activity/Method of Implementation:

REMOVED ALL VEGETATION WITH HAND AND POWER
TOOLS THAT ARE FITTED WITH PROPER AIR FILTER
EXHAUSTS

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 12/20/2022

Project end date: 1/25/2023

Completed by: Name: ANTHONY MIRANO Title: PWCL Date: 12/20/2022

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 41.03

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) N/A

Location/Channel Reach#: **Reach No. 8 Project 470 Outlet** T.G.: 561-E3

Permit Requirements:

All vegetation in the channel will be kept clear during the dry season using hand-clearing methods.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- _____ Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

STRAW WADDLE BOOM HAS BEEN PLACED AT END OF REACH.

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: ANTHONY MIRANO Title: PNCL Date: 12/20/2022

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 8 Project 470 Outlet**

T.G.: 561-E3

Permit Requirements:

All vegetation in the channel will be kept clear during the dry season using hand-clearing methods.

Description of Activity/Method of Implementation:

HAND AND POWER TOOLS USED ARE FITTED WITH APPROVED NOISE SUPPRESSORS.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: ANTHONY MIRANO

Title: PNCL Date: 12/20/2022

Approved by: Name: _____

Title: _____ Date: _____

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name HAVENHURST DRAIN (610470)
 Reach Number #8

Date	Air	H2O	Noise	Comment	Initial
12/20/22	X	X	X	STRAW WADDE BOOM IN PLACE, AT END OF REACH.	AM
12/21/22	X	X	X		AM
12/22/22	X	X	X		AM
12/23/22	X	X	X		AM
12/27/22	X	X	X		AM
12/29/22	X	X	X		AM
12/30/22	X	X	X		AM
1/3/23	X	X	X		AM
1/4/23	X	X	X		AM
1/7/23	✓	✓	✓		AM
1/18/23	X	X	X		AM
1/19/23	X	X	X		AM

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name HALENHURST DRAIN (BI 0170)

Reach Number #8

Date	Air	H2O	Noise	Comment	Initial
1/20/23	X	X	X		AM
1/23/23	X	X	X		AM
1/24/23	X	X	X		AM
1/25/23	X	X	X	SOFT BOTTOM COMPLETED	AM

2022-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form



Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 9 Project 106 Outlet**

T.G.: 531-G7

Permit Requirements:

Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997.

Impacts shall not exceed 0.12 acre.

Description of Activity/Method of Implementation:

WORK AREA WAS CLEARED BY HAND AND SMALL POWER TOOLS WERE ALSO USED. WORK STARTED AT A REASONABLE HOUR.
NO EXCESSIVE NOISE CREATED. WORK TRUCKS WERE PARKED ON DESIGNATED AREA WITH ENGINE OFF.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 10-3-22

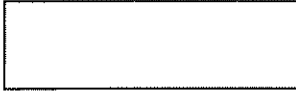
Project end date: 10-25-22

Completed by: Name: Juan Rodarte Title: P.W.C.L Date: 10-25-22

Approved by: Name: M. Rhyne Title: FCCS Date: 10-25-22

2022-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form



Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 1.00

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 9 Project 106 Outlet**

T.G.: **531-G7**

Permit Requirements:

Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997.

Impacts shall not exceed 0.12 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO BMP NEEDED NO FLOWING WATER ON CRK. BIRD NESTING
SURVEYED NO NESTS OR BIRDS FOUND ON SITE

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Juan Rodarte

Title: P.W.C.L Date: 10-25-22

Approved by: Name: C.M. [Signature]

Title: FCCS Date: 10-25-22

2022-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form



Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 9 Project 106 Outlet**

T.G.: 531-G7

Permit Requirements:

Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997.

Impacts shall not exceed 0.12 acre.

Description of Activity/Method of Implementation:

NO EXCESSIVE NOISE CREATED DUE TO HAND CLEARING
AND SMALL POWER TOOLS WERE USED TO REMOVE VEGETATION.
TRUCKS WERE PARKED IN DESIGNATED AREAS WITH ENGINE
OFF.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

BEFORE, DURING AND AFTER PHOTOS WERE TAKEN AND
DOWNLOADED INTO A COMPUTER'S P.DRIVE.

Completed by: Name: JUAN RODARTE

Title: P.W.C.L Date: 10-25-22

Approved by: Name: M. Olimpio

Title: ACCES Date: 10-25-22

WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

2022-2023

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 10 Project No. 469**

T.G.: 531- J7 TO 561- F1

Permit Requirements:

Due to a recent toxic spill, no work was performed in November 1997, since virtually all of the vegetation was killed. Vegetation and dead vegetation will be mechanically removed to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require clearing the channel for approximately 4,000 feet downstream of Victory Boulevard. The reach will be maintained clear of all vegetation during the dry season.

The Operator shall not impact 2.11 acres of vegetation that was allowed to remain in the channel in 1997.

Description of Activity/Method of Implementation:

WATER TRUCK WAS USED ON SITE TO MINIMIZE DUST.
A EXCAVATOR WAS USED TO MOW VEGETATION. ROCK SECTION WAS
REMOVED & CUT BY HAND AND SMALL POWER TOOLS SUCH
AS TWO SHANK HEDGES, WEED TRIMMERS AND ALSO A CHAINSAW.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 10-19-2022

Project end date: 11-02-2022

Completed by: Name: J Jaramillo Title: PW. CL. Date: 11-02-2022

Approved by: Name: Michael A. Olympia Title: FCCS Date: 11-02-2022

WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

2022-2023

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) 15

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) NONE

Location/Channel Reach #: Reach No. 10 Project No. 469 T.G.: 531- J7 TO 561- F1

Permit Requirements: Due to a recent toxic spill, no work was performed in November 1997, since virtually all of the vegetation was killed. Vegetation and dead vegetation will be mechanically removed to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require clearing the channel for approximately 4,000 feet downstream of Victory Boulevard. The reach will be maintained clear of all vegetation during the dry season.

The Operator shall not impact 2.11 acres of vegetation that was allowed to remain in the channel in 1997.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- ESC1 Scheduling
- ESC2 Preservation of Existing Vegetation
- ESC21 Dust Control
- ESC22 Temporary Stream Crossing
- ESC31 Temporary Drains and Swales
- ESC50 Silt Fence
- ESC51 Straw Bale Barriers
- ESC52 Sand Bag Barriers

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: J. Jaramillo

Title: PWCL Date: 11-02-22

Approved by: Name: M. Lopez

Title: FLCS Date: 11-02-22

2020-2021
WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

2022-2023

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No. 10 Project No. 469 T.G.: 531- J7 TO 561- F1

Permit Requirements: Due to a recent toxic spill, no work was performed in November 1997, since virtually all of the vegetation was killed. Vegetation and dead vegetation will be mechanically removed to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require clearing the channel for approximately 4,000 feet downstream of Victory Boulevard. The reach will be maintained clear of all vegetation during the dry season.

The Operator shall not impact 2.11 acres of vegetation that was allowed to remain in the channel in 1997.

Description of Activity/Method of Implementation:

USED MAJOR ATTACHMENT. NOISE WAS MINIMAL

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

BEFORE, DURING AND AFTER PHOTOS WERE TAKEN
AND INPUTED INTO THE P.E DRIVE.

Completed by: Name: J. Jaramilla

Title: PW. CL. Date: 11-02-22

Approved by: Name: M. Lopez

Title: FCCS Date: 11-02-22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 12 Haines Cyn M.C.O**

T.G.: 503-F2

Permit Requirements:

Hand clearing of all vegetation will be used to keep the reach clear of vegetation, except for vegetation that was allowed to remain. This process will be repeated annually to prevent growth from restricting flows at the outlet to the channel.

Description of Activity/Method of Implementation:

VEGETATION WAS ALL REMOVED BY HAND & USING
SMALL POWERED TOOLS. NO LARGE AMOUNT OF DUST
WAS CREATED.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 2/14/2023

Project end date: 2/16/2023

Completed by: Name: ALEJANDRO MARQUEZ Title: P.W.C.L Date: 2/14/23

Approved by: Name: Santiago Vazquez Title: FCCS Date: 2/21/23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 4 TONS
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 50 SQ. FT
Location/Channel Reach #: **Reach No. 12 Haines Cyn M.C.O** T.G.: 503-F2

Permit Requirements:

Hand clearing of all vegetation will be used to keep the reach clear of vegetation, except for vegetation that was allowed to remain. This process will be repeated annually to prevent growth from restricting flows at the outlet to the channel.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

LOW WATER FLOW

Biologist on site: Yes No Date: 2/14/2023

Biologist Comments/Instructions:

Completed by: Name: ALEJANDRO MARQUEZ Title: P.W.C.L Date: 2/14/23
Approved by: Name: Santiago Vozza Title: FCCS Date: 2-21-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach #: **Reach No. 12 Haines Cyn M.C.O**

T.G.: 503-F2

Permit Requirements:

Hand clearing of all vegetation will be used to keep the reach clear of vegetation, except for vegetation that was allowed to remain. This process will be repeated annually to prevent growth from restricting flows at the outlet to the channel.

Description of Activity/Method of Implementation:

WE USED SMALL POWER TOOLS TO REMOVE
VEGETATION. NO LOUD NOISE WAS CREATED THAT
WOULD IMPACT NEARBY RESIDENTS.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: ALEXANDRO MARQUEZ

Title: P.W.C.L

Date: 2/14/23

Approved by: Name: Santiago Vazquez

Title: FCCS

Date: 2-21-23

[Signature]

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No.13 Project 5215 unit 1**

T.G.: **503-B2**

Permit Requirements:

The channel clearing work involve mechanical clearing the earthen outlet channel with a backhoe and hand cutting all vegetation from the first 250 feet of channel bottom (12-foot wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.

Description of Activity/Method of Implementation:

CREW WILL BE REMOVING VEGETATION USING 2 CYCLE WEED WIPES
AND HAND TOOLS SUCH AS LEAF RAKES, HOES AND LOPPERS.
ALL VEGETATION REMOVED WILL BE LOADED ON A 13 SEATER
STAKE BED TRUCK AND HAULED AWAY.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WATER TRUCK NEEDED, DUST CONTROL VERY MINIMAL

Project start date: 10/13/2022

Project end date: 10/14/2022

Completed by: Name: G. DEIGADILLO Title: FCCS Date: 10/12/22

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** **Trash/Debris Removed (Tons)** _____

Mitigation Measure #: 2 **Exotic Veg. Removed (Sq. Ft.)** _____

Location/Channel Reach #: **Reach No.13 Project 5215 unit 1** **T.G.: 503-B2**

Permit Requirements:

The channel clearing work involve mechanical clearing the earthen outlet channel with a backhoe and hand cutting all vegetation from the first 250 feet of channel bottom (12-foot wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control (AS NEEDED) | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- _____ Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NOTE: NO WATER AT TIME OF SCHEDULED MAINTENANCE

Biologist on site: Yes No Date: N/A

Biologist Comments/Instructions:

N/A

Completed by: Name: B. Delgadillo Title: FCCS Date: _____

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach #: **Reach No.13 Project 5215 unit 1**

T.G.: 503-B2

Permit Requirements:

The channel clearing work involve mechanical clearing the earthen outlet channel with a backhoe and hand cutting all vegetation from the first 250 feet of channel bottom (12-foot wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.

Description of Activity/Method of Implementation:

HAND CUTTING AND WEED WHIPPING TO REMOVE GROWTH

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NOTE: CREW DID NOT START WEED WHIPPING UNTIL AFTER 8AM

Completed by: Name: C. Delgado Title: FCCS Date: _____
Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: Reach No.14 May Chan. (M.C.O. into Pacoima Cyn.) T.G.: 482-E3

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

The Operator shall not impact the 0.5-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

CREW WILL BE REMOVING VEGETATION USING 2 CYCLE WEED WIPES
AND HAND TOOLS SUCH AS LEAF RAKES, HES AND LOPPERS.
ALL VEGETATION REMOVED WILL BE LOADED ON TO A 13 SERIES
STAKE BED TRUCK AND HAULED AWAY.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WIND MAKING DUST CONTROL MANAGEABLE

Project start date: 10/13/2022

Project end date: 10/14/2022

Completed by: Name: G. Delgadillo Title: FCLS Date: 10/12/22

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) N/A

Location/Channel Reach#: **Reach No.14 May Chan. (M.C.O. into Pacoima Cyn.)** T.G.: 482-E3

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

The Operator shall not impact the 0.5-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers <i>(As needed)</i> | <input type="checkbox"/> ESC52 Sand Bag Barriers |

Disposition: Mitigation measure has been implemented. No further action is required.

_____ Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

_____ Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Biologist on site AND following recommendations

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: B. Delgadillo Title: FCCS Date: _____

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach #: **Reach No.14 May Chan. (M.C.O. into Pacoima Cyn.) T.G.: 482-E3**

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

The Operator shall not impact the 0.5-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

HARD CUTTING AND WEED WHIPPING TO REMOVE OVERTGROWTH

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Following Biologist recommendations

Completed by: Name: *E. Delgado* Title: *FCCS* Date: _____

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No.15 Pacoima Wash T.G.: 531-H1 TO J3**

Permit Requirements:

Mechanical equipment and hand cutting will be used to keep the reach cleared of all vegetation.

The Operator shall not impact 0.01 acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

CLEARED AND STOCK PILED VEGETATION USING A LONG REACH EXCAVATOR.
ALL DEBRIS WERE LOADED INTO A 10 YARD TRUCK AND HAULED TO
THE DUMP.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NOTE: THERE WAS NO WIND AND DUST WAS VERY MINIMAL.

Project start date: Sept 19, 2022

Project end date: 09/29/2022

Completed by: Name: E. Delgado Title: FCCS Date: Sept 15, 2022

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) N/A

Location/Channel Reach#: **Reach No.15 Pacoima Wash** T.G.: 531-H1 TO J3

Permit Requirements:

Mechanical equipment and hand cutting will be used to keep the reach cleared of all vegetation.

The Operator shall not impact 0.01 acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input checked="" type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- _____ Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

STRAW BALES INSTALLED WITH SAND BAGS THROUGHOUT THE WHOLE
REACH 15. NOTE: NO WATER REACHING POST THE CONCRETE PORTION OF THE
WASH.

Biologist on site: Yes No Date: N/A

Biologist Comments/Instructions:

Completed by: Name: B. Delgado Title: FCCS Date: 9/15/22

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach #: **Reach No.15 Pacoima Wash T.G.: 531-H1 TO J3**

Permit Requirements:

Mechanical equipment and hand cutting will be used to keep the reach cleared of all vegetation.

The Operator shall not impact 0.01 acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

VEGETATION REMOVED USING A LONG REACH EXCAVATOR. ALL
EQUIPMENT STAYED ON TOP OF RIGHT OF WAY

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL VEGETATION REMOVED WAS HAULED TO TIRE DUMP.

Completed by: Name: E. DeLuca

Title: FCCS Date: 9/15/22

Approved by: Name: _____

Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 16 Verdugo Wash-Las Barras Cyn** T.G.: 504-C7
(Channel Inlet)

Permit Requirements:

Hand clearing work will be used to keep the reach clear of all vegetation.

Impacts shall not exceed 0.07 acre.

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED WITH SMALL POWER
TOOLS, NO DUST WAS CREATED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 2-3-2023

Project end date: 2-3-2023

Completed by: Name: ALEXANDRO MARQUEZ Title: PWCL Date: 2-3-23

Approved by: Name: Pamela Uyuz Title: FCCS Date: 2-3-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0.5
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0
Location/Channel Reach#: **Reach No. 16 Verdugo Wash-Las Barras Cyn** T.G.: 504-C7
(Channel Inlet)

Permit Requirements:

Hand clearing work will be used to keep the reach clear of all vegetation.

Impacts shall not exceed 0.07 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WATER FLOW

Biologist on site: Yes No Date: 2-3-2023

Biologist Comments/Instructions:

Completed by: Name: Alexandro Marquez Title: PWU Date: 2-3-23
Approved by: Name: Santiago Vazquez Title: FCCS Date: 2-3-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach #: **Reach No. 16 Verdugo Wash-Las Barras Cyn** T.G.: 504-C7
(Channel Inlet)

Permit Requirements:

Hand clearing work will be used to keep the reach clear of all vegetation.

Impacts shall not exceed 0.07 acre.

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED USING SMALL POWER
TOOLS. NO LARGE AMOUNT OF NOISE WAS CREATED THAT
WOULD IMPACT NEARBY RESIDENTS.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: ALEJANDRO MARQUEZ

Title: PWCL Date: 2-3-23

Approved by: Name: Santiago Ueyra
#

Title: FCCS Date: 2-3-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 18 Engleheard Channel T.G.: 534- F3 To G3**

Permit Requirements:

Hand clearing work will only involve dead vegetation and tree branches from between the pipe and wire revetments. All vegetation will be cleared by manual methods during the dry season.

Description of Activity/Method of Implementation:

WE USED SMALL POWER TOOLS TO REMOVE VEGETATION.
NO DUST WAS CREATED THAT WOULD IMPACT
NEARBY RESIDENTS.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 2-3-2023

Project end date: 2-3-2023

Completed by: Name: ALEJANDRO MARQUEZ Title: PWCL Date: 2-3-23

Approved by: Name: Santiago Vazquez Title: FCCS Date: 2-3-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 1

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 5

Location/Channel Reach#: **Reach No. 18 Engleheard Channel** T.G.: **534- F3 To G3**

Permit Requirements:

Hand clearing work will only involve dead vegetation and tree branches from between the pipe and wire revetments. All vegetation will be cleared by manual methods during the dry season.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WATER FLOW

Biologist on site: Yes No Date: 02-03-2023

Biologist Comments/Instructions:

Completed by: Name: ALEJANDRO MARQUEZ Title: PWCL Date: 2-3-23

Approved by: Name: Joselyne Vaquer Title: FCCS Date: 2-3-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 18 Engleheard Channel T.G.: 534- F3 To G3**

Permit Requirements:

Hand clearing work will only involve dead vegetation and tree branches from between the pipe and wire revetments. All vegetation will be cleared by manual methods during the dry season.

Description of Activity/Method of Implementation:

WE USED SMALL POWER TOOLS TO REMOVE
VEGETATION. NO LOUD NOISE WAS CREATED
THAT WOULD IMPACT NEARBY RESIDENTS.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: ALEJANDRO MARQUEZ Title: PWCL Date: 2-3-23

Approved by: Name: Santiago Vazquez Title: FCS Date: 2-3-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

TABACCO

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons)

5 S/F

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)

CASTOR
8 S/F

Location/Channel Reach#: Reach No.19 Pickens Cyn

T.G.: 504-H5 To 534-H1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WATER FLOW

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: M. MONCADA

Title: CL

Date: 2/7/23

Approved by: Name: Philip Rose

Title: FCCS

Date: 2-8-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No.19 Pickens Cyn** T.G.: **504-H5 To 534-H1**

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED BY HAND
USING SMALL POWER TOOLS. NO IMPACT
ON THE AIR QUALITY.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 2/6/23

Project end date: 2/7/23

Completed by: Name: M. MONCADA Title: CL Date: 2/7/23

Approved by: Name: Philip Row Title: FLCS Date: 2-8-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No.19 Pickens Cyn** T.G.: 504-H5 To 534-H1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED BY HAND
USING SMALL POWER TOOLS. NO LARGE AMOUNT
OF NOISE WAS CREATED

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: M-MONCADA

Title: CL Date: 2/7/23

Approved by: Name: Philip Rose

Title: FCS Date: 2-8-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 20 Webber Chan.**
(strm @ private bridge)

T.G.: 504-J7

Permit Requirements:

Mechanical equipment will be used to keep the channel clear of all vegetation.

Impacts shall not exceed 0.13 acre (115 linear feet by 50 feet wide).

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED
USING SMALL POWER TOOLS.
NO LOUD NOISE WAS CREATED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: M. MONCADA

Title: CL Date: 2/01/23

Approved by: Name: Philip Rose

Title: FCS Date: 2-2-23

PR

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) _____

Location/Channel Reach#: **Reach No. 20 Webber Chan.** T.G.: 504-J7
(strm @ private bridge)

Permit Requirements:

Mechanical equipment will be used to keep the channel clear of all vegetation.

Impacts shall not exceed 0.13 acre (115 linear feet by 50 feet wide).

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WATER FLOW

Biologist on site: Yes No Date: 2/01/23

Biologist Comments/Instructions:

Completed by: Name: M. MONCADA Title: CL Date: 2/01/23
Approved by: Name: Philip Rose Title: FLCS Date: 2-2-23

Handwritten initials

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 20 Webber Chan.**
(strm @ private bridge)

T.G.: 504-J7

Permit Requirements:

Mechanical equipment will be used to keep the channel clear of all vegetation.

Impacts shall not exceed 0.13 acre (115 linear feet by 50 feet wide).

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED MANUALLY
USING SMALL POWER TOOLS.
NO IMPACT ON THE AIR QUALITY

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 2/01/23

Project end date: 2/01/23

Completed by: Name: M. MONCADA Title: CL Date: 2/01/23

Approved by: Name: Philip Rose Title: FCCS Date: 2-2-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 21 Webber Channel
(Main channel inlet D/S Bridge)**

T.G.: 505- J7

Permit Requirements:

Hand clearing work will be performed to keep the reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED MANUALLY
USING SMALL POWER TOOLS
NO IMPACT ON AIR QUALITY.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 2/01/23

Project end date: 2/01/23

Completed by: Name: M. MONCADA Title: CL Date: 2/01/23

Approved by: Name: Philip Rose Title: FCCS Date: 2-2-23



LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) _____

Location/Channel Reach#: **Reach No. 21 Webber Channel** T.G.: 505- J7
(Main channel inlet D/S Bridge)

Permit Requirements:

Hand clearing work will be performed to keep the reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- _____ Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WATER

Biologist on site: Yes No

Date: 2/01/23

Biologist Comments/Instructions:

Completed by: Name: M. MONCADA

Title: CC Date: 2/01/23

Approved by: Name: Philip Rose

Title: FCCS Date: 2-2-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 21 Webber Channel
(Main channel inlet D/S Bridge)**

T.G.: 505- J7

Permit Requirements:

Hand clearing work will be performed to keep the reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED BY HAND
USING SMALL POWER TOOLS.
NO SIGNIFICANT AMOUNT OF NOISE
WAS CREATED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: M. MONCADA

Title: CC Date: 2/10/23

Approved by: Name: Philip Rose

Title: FCS Date: 2-2-23

OR

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 22 Halls Canyon**

T.G.: 534- J1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED BY HAND USING SMALL
POWER TOOLS. NO LARGE AMOUNTS OF DUST WAS CREATED.
AIR QUALITY WAS GOOD.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 3/8/23

Project end date: 3/8/23

Completed by: Name: Michael Perez Title: P.W.C.L Date: 3/8/23

Approved by: Name: Philip Rose Title: FCLC Date: 3/8-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 6

Location/Channel Reach#: **Reach No. 22 Halls Canyon**

T.G.: 534- J1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

N/A Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

N/A Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WATER FLOW
REMOVED SMALL AMOUNTS OF CASTOR BEAN & TOBACCO PLANT.

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Michael Perez

Title: P.W.C. Date: 3/8/23

Approved by: Name: Philip Rose

Title: F.C.C.S. Date: 3-8-23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 22 Halls Canyon**

T.G.: 534- J1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

CREW USED SMALL POWER TOOLS TO REMOVE VEGETATION. NO
LOUD NOISE WAS CREATED THAT WOULD IMPACT NEARBY RESIDENTS
ALSO COMPLIES WITH REQUIREMENT.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: MICHAEL PEREZ

Title: P.W.C.L Date: 5/8/23

Approved by: Name: Philip Rose

Title: F.C.C.S. Date: 3/8/23

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 24 (Compton Creek)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Removal of all vegetation from the reach and/or restoration of the channel's hydraulic conveyance capacity by driving tracked equipment over vegetated areas. The LACFCD will inspect and mechanically remove accumulated sediment, debris, and all vegetation in the reach to ensure the proper functioning of the flood-control infrastructure. Weeds and grasses may be controlled by mowing or hand labor. The reach will be cleared annually to the same baseline condition as that approved for clearing activities. Reach work will also include mechanical grading to train flows to the centerline of the reach.

Description of Activity/Method of Implementation:

Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. Mechanical grading to train flows to the centerline was not conducted this year. Minimal amount of dust was generated. Water trucks were used for dust suppression when needed.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 9/16/22

Project End Date: 10/27/22

Completed by:

Name:	<i>Morgan M. Smith</i>
Title:	<i>C.S.</i>
Date:	<i>5-4-23</i>

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JB/C

**LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE
2022-2023 MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Location/Channel Reach	Reach No. 24 (Compton Creek)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	0

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. All equipment and trucks had their tires and undercarriage washed before leaving the site. BMP's were implemented to maintain water quality. The following Best Management Practice were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sandbag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No _____

Date on Site: _____

Comments/Revisions:

Work was done in the channel avoiding water. Water Quality Sampling results provided in Annual Report.

Completed by:

Approved by:

Name:	<i>Luigi A. ...</i>
Title:	<i>C.S</i>
Date:	<i>5-4-23</i>

Name:	<i>Eden Behar</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

J&C

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 24 (Compton Creek)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>Angela D. Green</i>
Title:	<i>C.S</i>
Date:	<i>5-4-23</i>

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAC

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Compton Creek
 Reach Number 24

Date	Air	H2O	Noise	Comment	Initial
9/15/22	FAIR	FAIR	FAIR	SET UP BMP'S ON CONFLUENCE	A-C
9/16/22	FAIR	FAIR	FAIR	SKIP STEER & MINI EXCAVATORS	A-C
9/17/22	FAIR	FAIR	FAIR	lots of COSTER BEAN REMOVAL	A-C
9/19/22	FAIR	FAIR	FAIR	GREAT MONDAY	A-C
9/20/22	FAIR	FAIR	FAIR	LET STAY SAFE!	A-C
9/21/22	FAIR	FAIR	FAIR	MAKING GOOD PROGRESS	A-C
9/22/22	FAIR	FAIR	FAIR	THE SKID STEERS ARE REALLY MOVING	A-C
9/23/22	FAIR	FAIR	FAIR	PROGRESS	A-C
9/24/22	FAIR	FAIR	FAIR	THE MORE HANDS THE BETTER	A-C
9/27/22	FAIR	FAIR	FAIR	GREAT DAY	A-C
9/28/22	FAIR	FAIR	FAIR	ALL IS WELL	A-C
9/29/22	FAIR	FAIR	FAIR	JUST KEEP CUTTING	A-C

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Compton Creek
 Reach Number 24

Date	Air	H2O	Noise	Comment	Initial
9/30/21	FAIR	FAIR	FAIR	ITS A HOT ONE ALL IS WELL ON REACH 24	A.C.
10/16/21	FAIR	FAIR	FAIR	TODAY WE HAD HELP FROM UNDERGROUND CREW	A.C.
10/2/21	FAIR	FAIR	FAIR	MORE HELP FROM UNDERGROUND	A.C.
10/4/21	FAIR	FAIR	FAIR	GREAT PROGRESS TODAY	A.C.
10/5/21	FAIR	FAIR	FAIR	SMALL CREW A LOT OF PROGRESS	A.C.
10/6/21	FAIR	FAIR	FAIR	CLASS 1/2 DAY	A.C.
10/7/21	FAIR	FAIR	FAIR	GOOD DAY	A.C.
10/8/21	FAIR	FAIR	FAIR	GOOD PROGRESS TODAY	A.C.
10/12/21	FAIR	FAIR	FAIR	GETTING COLD	A.C.
10/13/21	FAIR	FAIR	FAIR	WE AT DEL ANO!	A.C.
10/14/21	FAIR	FAIR	FAIR	HAND WORK TODAY	A.C.
10/15/21	FAIR	FAIR	FAIR	MORE HANDWORK	

10/14/21 SKIDSTEERS WENT DOWN
 10/14/21 Hydraulic line busted

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Compton Creek
 Reach Number 24

Date	Air	H2O	Noise	Comment	Initial
10/19/21	FAIR	FAIR	FAIR	HAND CREW minimize 2 SKIDSTEER MOWER working	A-C
10/20/21	FAIR	FAIR	FAIR	All Equipment no Handwork	A-C
10/21/22	FAIR	FAIR	FAIR	MINI EX work only	A-C
10/24/22	FAIR	FAIR	FAIR	CLEAR DAY Blue Skys	A-C
10/25/22	FAIR	FAIR	FAIR	Almost There	A-C
10/26/22	FAIR	FAIR	FAIR	ONE MORE DAY, I Hope	A-C
10/27/22	FAIR	FAIR	FAIR	GREAT DAY	A-C

**LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE
2022-2023 MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Location/Channel Reach	Reach No. 25 (Los Angeles River)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Los Angeles River - Willow Street to Pacific Coast Highway, Using mechanical equipment, all exotic/invasive vegetation will be removed throughout this reach. Weeds and grasses may be controlled by mowing or hand labor. The reach will be cleared annually to the same baseline condition as that of November 1997.

Description of Activity/Method of Implementation:

Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. Minimal dust was generated. Water trucks were used for dust suppression when needed.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 10/17/22

Project End Date: 11/03/22

Completed by:

Name:	<i>Laura M. Smith</i>
Title:	<i>C.S.</i>
Date:	<i>5-4-23</i>

Approved by:

Name:	<i>Eden Berhena</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 25 (Los Angeles River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	60

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. All equipment and trucks had their tires and undercarriage cleaned before leaving the site. BMP's were implemented to maintain water quality. The following Best Management Practice were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No

Date on Site: _____

Comments/Revisions:

Work was done in the channel avoiding water. Water Quality Sampling results provided in Annual Report.

Completed by:

Approved by:

Name:	<i>[Signature]</i>
Title:	<i>C.S</i>
Date:	<i>5-4-23</i>

Name:	<i>[Signature] Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 25 (Los Angeles River)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>Danny A. Smith</i>
Title:	<i>C.S.</i>
Date:	<i>5-4-23</i>

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAE

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Los Angeles River
 Reach Number 25

Date	Air	H2O	Noise	Comment	Initial
10-17-22	NORMAL	NORMAL	NORMAL	1 BOBCAT LOST SKID CLIP	E.T
10-18-22	NORMAL	NORMAL	NORMAL	NONE	E.T
10-19-22	NORMAL	NORMAL	NORMAL	NONE	E.T
10-20-22	NORMAL	NORMAL	NORMAL	1 SKIDSTEER LOST ITS TRACK	E.T
10-21-22	NORMAL	NORMAL	NORMAL	NONE	E.T
10-22-22	NORMAL	NORMAL	NORMAL	NONE	A.C
10-24-22	NORMAL	NORMAL	NORMAL	NONE	A.C
10-25-22	NORMAL	NORMAL	NORMAL	NONE	A.C
10-26-22	NORMAL	NORMAL	NORMAL	NONE	A.C
10-27-22	NORMAL	NORMAL	NORMAL	NONE	A.C
10-28-22	NORMAL	NORMAL	NORMAL	NONE	A.C
10-29-22	NORMAL	NORMAL	NORMAL	NONE	A.C

La River Soft Bottom Reach 25

10/17/2022

Ground Crew of 7 working with hand tools, cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 2 Bobcat with operators mowing the channel.

10/18/2022

Ground Crew of 14 working with hand tools, cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 3 skid steers with operators mowing the channel.

10/19/2022

Ground Crew of 11 working with hand tools, cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 2 skid steers with operators mowing the channel. 1 Loader 1 Truck.

10/20/2022

Ground Crew of 12 working with hand tools, cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 3 skid steers with operators mowing the channel.

10/21/2022

Ground Crew of 18 working with hand tools, cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 3 skid steers with operators mowing the channel.

10/22/2022

Ground Crew of 13 working with hand tools, cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 2 skid steers with operators mowing the channel.

10/24/2022

Ground Crew of 5 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 3 skid steers with operators mowing the channel 1 Loader 1 Truck.

10/25/2022

Ground Crew of 14 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 2 skid steers with operators mowing the channel.

10/26/2022

Ground Crew of 5 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 1 skid steer with operator mowing the channel.

10/27/2022

Ground Crew of 10 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean the crew also loading 1 truck. Equipment: 1 skid steer with operator mowing the channel.

10/28/2022

Ground Crew of 10 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean the crew also loading 2 trucks. Equipment: 2 skid steers with operator mowing the channel.

10/29/2022

Ground Crew of 10 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean 5 working on the West side of channel and 5 working the East side of channel. Equipment: 2 skid steers with operators mowing the channel 1 loader 1 Mini Ex with bucket plucking Arundo.

10/31/2022

Ground Crew of 10 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean 5 working on the West side of channel and 5 working the East side of channel. Equipment: 2 skid steers with operators mowing the channel 1 loader 1 Mini Ex with bucket plucking Arundo.

11/1/2022

Rain that day

11/2/2022

Ground Crew of 7 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean 1 man got hurt while working, the crew also loading 1 truck. Equipment: 2 Loaders 2 Trucks 1 Mini Ex with bucket plucking.

11/3/2022

Ground Crew of 6 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 2 Loaders, 1 Truck, 1 Mini Ex

11/4/2022

Ground Crew of 7 working with hand tools cutting on the slopes and the channel removing Arundo and castor bean. Equipment: 2 Mini Ex 1 plucking and 1 mowing 2 Loaders 3 Trucks .

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 26 (Project 74)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Project 74 - 500-feet Upstream of Artesia Boulevard to Dominguez Channel. The channel will be cleared using hand manual labor. Hand labor will be used to trim the vegetation which has been allowed to remain. New growth will not be allowed to become established and will be removed annually by manual methods.

Description of Activity/Method of Implementation:

Air quality was fair to good during working hours. The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. Debris was put onto tarps, pulled to the asphalt driveway. Equipment was used to pick up the debris and loaded on dump trucks. The dump trucks hauled away the debris to a local landfill transfer station. Minimal amount of dust was generated.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/16/22

Project End Date: 10/03/22

Completed by:

Name:	<i>[Signature]</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>5-11-23</i>

Approved by:

Name:	<i>[Signature] Eden Berlean</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

J&C

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 26 (Project 74)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	44

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Proper vegetation removal methods were conducted at Project 74 not to impact water quality sampling. The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. All equipment and hand tools cleaned before leaving the site to maintain water quality.

The following Best Management Practice was deemed to be applicable and was implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No

Date on Site: _____

Comments/Revisions:

Work was done in the channel avoiding water quality impacts. Water Quality Sampling results provided in Annual Report.

Completed by:

Approved by:

Name:	
Title:	Construction Superintendent
Date:	5-11-23

Name:	
Title:	Sr. Civil Engineer
Date:	5/16/2023

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 26 (Project 74)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

We had trimming crews working ahead of crews clearing ground vegetation. The ground clearing crews were using manual tools to remove overgrowth along the hillsides, fence line and around outlets. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>[Signature]</i>
Title:	<i>Construction Supervisor</i>
Date:	<i>5-11-23</i>

Approved by:

Name:	<i>[Signature] Eder Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JOC

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Project 74
 Reach Number 26

Date	Air	H2O	Noise	Comment	Initial
9/16/22	GOOD	BAD	LOW	Start of SBC BMP 'are in place , water sampling was taken and levels are not the best. Milky substance in water. Is	R.B.
9/17/22	GOOD	BAD	LOW	Water sampling was taken and more BMP's are required.	R.B.
9/19/22	GOOD	MODERATE	LOW	Water samples are slowly getting better.	R.B.
9/20/22	GOOD	MODERATE	LOW	Crew making lots of progress, still lots of debris in waterway.	R.B.
9/22/22	GOOD	MODERATE	LOW	Milky substance is still visible in water on unimproved section	R.B.
9/23/22	GOOD	MODERATE	LOW	Progress is going good and west bank is complete, continuing with east bank	R.B.
9/24/22	GOOD	MODERATE	LOW	Work moving forward , water sampling being performed daily , no issues to report	R.B.
9/25/22	GOOD	MODERATE	LOW	South side of Artesia , loading area has cones and traffic set up	R.B.
9/26/22	GOOD	MODERATE	LOW	Crews working both banks and making good progress	R.B.
9/28/22	GOOD	MODERATE	LOW		R.B.
9/29/22	GOOD	MODERATE	LOW	Project almost complete and touching up spots that need attention	R.B.
10/3/22	GOOD	MODERATE	LOW	Last day of SBC and all BMP's have been removed and area has been picked up	R.B.

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022- 2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 27 (Wilmington Drain)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

All vegetation from the reach in the area upstream of Lomita Boulevard will be kept cleared. Between Lomita Boulevard and Pacific Coast Highway (PCH), vegetation will be kept clear from the two reaches, but vegetation on the island and on the reach banks will remain. Clearing work in the reach invert will be done with mechanical equipment. Vegetation on the banks (from toe up 3 feet) will be trimmed with hand tools so that it does not impede flow on the invert.

Description of Activity/Method of Implementation:

All vegetation from the reach in the area upstream of Lomita Boulevard was cleared. Clearing work in the invert downstream of Lomita to PCH was completed using mechanical equipment. Vegetation on the lower banks was trimmed up to 3 feet with hand tools so that it did not impede flow. Minimal dust was generated. Water trucks were used for dust suppression as necessary.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/16/22

Project End Date: 10/04/22

Completed by:

Name:	<i>Roger M. Song</i>
Title:	<i>C.S.</i>
Date:	<i>5-4-23</i>

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

EB

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022- 2023 MITIGATION MONITORING PROGRAM

Location/Channel Reach	Reach No. 27 (Wilmington Drain)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	16

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Clearing work in the invert downstream of Lomita to PCH was completed using mechanical equipment. Vegetation on the lower banks was trimmed up to 3 feet with hand tools so that it did not impede flow. A biologist was on-site during clearing activities. Decontamination measures were implemented, and BMP's were placed to maintain water quality. All equipment, and trucks had their tires and undercarriage cleaned before leaving the site. BMP's were implemented to maintain water quality. The following Best Management Practices were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Work was done in the channel avoiding water. Water Quality Sampling results provided in Annual Report.

Completed by:

Approved by:

Name:	<i>Ryan A. [Signature]</i>
Title:	<i>C.S</i>
Date:	<i>5-4-23</i>

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022- 2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 27 (Wilmington Drain)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

All vegetation from the reach in the area upstream of Lomita Boulevard was cleared. Clearing work in the invert downstream of Lomita to PCH was completed using mechanical equipment. Vegetation on the lower banks was trimmed up to 3 feet with hand tools so that it did not impede flow. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>Regan M Gray</i>
Title:	<i>CS</i>
Date:	<i>5-4-23</i>

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JRC

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Wilmington Drain Mitigation

Date	Air	H2O	Noise	Comment	Initial
9-16-22	moderate	Good	moderate	ALL Power Equipment will be shut off when not in use. ALL Power tools will be refilled with absorbent pads underneath.	G.U
9-17-22	moderate	Good	moderate		G.U
9-19-22	moderate	Good	moderate		G.U
9-20-22	moderate	Good	moderate		G.U
9-21-22	moderate	Good	moderate		G.U
9-22-22	moderate	Good	moderate		G.U
9-23-22	moderate	Good	moderate		G.U
9-26-22	moderate	Good	moderate		G.U
9-27-22	moderate	Good	moderate		G.U
9-28-22	moderate	Good	moderate		G.U
9-29-22	moderate	Good	moderate		G.U

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No.29 Las Virgenes (PD T1684) M.C.I. T.G.: 558-H3**

Permit Requirements:

The channel clearing work will involve hand clearing a 30-foot-wide strip along the watercourse low flow from the debris posts to the right-of-way boundary.

The Operator shall avoid impacts to southwestern pond turtles. The Operator shall not impact the 0.61-acre of vegetation that was allowed to remain in 1997. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

Removed vegetation by hand and power tools that are fitted with approved
air filter & exhaust

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 2/17/23

Project end date: 2/22/23

Completed by: Name: Francisco Manríquez Title: PWCL Date: 2/17/23

Approved by: Name: _____ Title: _____ Date: _____

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 2.47

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) ∅

Location/Channel Reach#: #: **Reach No.29 Las Virgenes (PD T1684) M.C.I. T.G.: 558-H3**

Permit Requirements:

The channel clearing work will involve hand clearing a 30-foot-wide strip along the watercourse low flow from the debris posts to the right-of-way boundary.

The Operator shall avoid impacts to southwestern pond turtles. The Operator shall not impact the 0.61-acre of vegetation that was allowed to remain in 1997. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Biologist on site: Yes No

Date: 2/17/23 - 2/22/23

Biologist Comments/Instructions:

Completed by: Name: Francisco Manríquez Title: PWCL Date: 2/17/23

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: #: **Reach No.29 Las Virgenes (PD T1684) M.C.I. T.G.: 558-H3**

Permit Requirements:

The channel clearing work will involve hand clearing a 30-foot-wide strip along the watercourse low flow from the debris posts to the right-of-way boundary.

The Operator shall avoid impacts to southwestern pond turtles. The Operator shall not impact the 0.61-acre of vegetation that was allowed to remain in 1997. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

All power tools are equipped with proper noise suppressors. Work was started at 8:00am to not disturb residents

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: Francisco Manriquez

Title: PWCL Date: 2/17/23

Approved by: Name: _____

Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 32 Stokes Canyon
Channel. PD T043**

T.G.: **588- J4 TO H4**

Permit Requirements:

The work will involve hand clearing of all vegetation between the pipe and wire. Embankment vegetation outside the pipe and wire channel will be left in place.

Description of Activity/Method of Implementation:

REMOVED ALL VEGETATION WITH WEED EATERS, HEDGE TRIMMERS
AND SMALL HAND TOOLS. ALL VEGETATION LOADED BY HAND ON TO
STAKE BED TRUCK

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

DRY STREAM BED, NO BOOM NEEDED

Project start date: 11/16/22

Project end date: 12/16/22

Completed by: Name: Ryan Morello Title: CREW LEADER Date: 12/16/22

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 12/21/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 32 Stokes Canyon
Channel. PD T043**

T.G.: 588- J4 TO H4

Permit Requirements:

The work will involve hand clearing of all vegetation between the pipe and wire. Embankment vegetation outside the pipe and wire channel will be left in place.

Description of Activity/Method of Implementation:

ALL POWER TOOLS WERE USED AFTER 8:00AM SO AS NOT TO
DISTURB NEIGHBORS. ALSO, ALL POWER TOOLS ARE FITTED WITH
APPROVED MUFFLERS.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

DRY STREAM BED, NO BOOM NEEDED

Completed by: Name: Ryan Morillo

Title: CREW LEADER Date: 12/16/22

Approved by: Name: LUIS MONTES DE OCA

Title: FCCS Date: 12/21/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name STOKES CYN CHANNEL

Reach Number # 32

Date	Air	H2O	Noise	Comment	Initial
11/16/22	✓	✓	✓	REACH IS DRY, NO STRAW BALE NEEDED	RM
11/17/22	✓	✓	✓		RM
11/18/22	✓	✓	✓		RM
11/19/22	✓	✓	✓		RM
11/21/22	✓	✓	✓		RM
11/23/22	✓	✓	✓		RM
11/29/22	✓	✓	✓		RM
11/30/22	✓	✓	✓		RM
12/1/22	✓	✓	✓		RM
12/3/22	✓	✓	✓		RM
12/5/22	✓	✓	✓		RM
12/6/22	✓	✓	✓		RM

[Handwritten Signature]

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name STOKES CANYON CHANNEL

Reach Number #32

Date	Air	H2O	Noise	Comment	Initial
12/7/22	✓	✓	✓		RM
12/8/22	✓	✓	✓		RM
12/9/22	✓	✓	✓		RM
12/14/22	✓	✓	✓		RM
12/13/22	✓	✓	✓		RM
12/14/22	✓	✓	✓		RM
12/15/22	✓	✓	✓		RM
12/16/22	✓	✓	✓	Completed	RM

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 36 Cheseboro Main Channel Inlet** T.G.: 558-C6

Permit Requirements:

The clearing work will involve hand cutting/trimming three two-inch diameter trees. New vegetation will be cleared annually to prevent blockage of the inlet during the dry season.

The Operator shall not impact the 0.05-acre of vegetation that was allowed to remain in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities

Description of Activity/Method of Implementation:

NO IMPACT TO AIR QUALITY. ALL VEGETATION CUT WITH HAND TOOLS AND POWER EQUIPMENT SUCH AS WEED EATER, HEDGE TRIMMERS AND SMALL CHAINSAW EQUIPPED WITH APPROVED EXHAUST.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 11/25/23

Project end date: 11/25/23

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 11/25/23

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 1.33

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 36 Cheseboro Main Channel Inlet** T.G.: 558-C6

Permit Requirements:

The clearing work will involve hand cutting/trimming three two-inch diameter trees. New vegetation will be cleared annually to prevent blockage of the inlet during the dry season.

The Operator shall not impact the 0.05-acre of vegetation that was allowed to remain in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO STRAW BALE NEEDED, NO FLOWING WATER

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 1/25/23

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 36 Cheseboro Main Channel Inlet T.G.: 558-C6**

Permit Requirements:

The clearing work will involve hand cutting/trimming three two-inch diameter trees. New vegetation will be cleared annually to prevent blockage of the inlet during the dry season.

The Operator shall not impact the 0.05-acre of vegetation that was allowed to remain in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities

Description of Activity/Method of Implementation:

All power tools used such as weed eaters, hedge trimmers and small chain saw equipped with approved mufflers.
All vegetation hand loaded

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 1/25/23

Approved by: Name: _____

Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 37 Medea Ck/Chesesboro Ck Outlet T.G.: 558-A6**

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

No work was done and 0.25 acres of vegetation was present in the channel in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

NO IMPACT TO AIR QUALITY, DUE TO USE OF HAND TOOLS AND POWER TOOLS FITTED WITH APPROVED EXHAUST.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 1/24/23 Project end date: 1/24/23

Completed by: Name: Ryan Morillo Title: CREW LEADER Date: 1/24/23

Approved by: Name: LUIS MONTE DE OSA Title: FCCS Date: 1/25/23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 10.37

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 37 Medea Ck/Chesesboro Ck Outlet** T.G.: **558-A6**

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

No work was done and 0.25 acres of vegetation was present in the channel in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- ESC1 Scheduling
- ESC2 Preservation of Existing Vegetation
- ESC21 Dust Control
- ESC22 Temporary Stream Crossing
- ESC31 Temporary Drains and Swales
- ESC50 Silt Fence
- ESC51 Straw Bale Barriers
- ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murrillo Title: CREW LEADER Date: 1/24/23

Approved by: Name: LUIS MONTEZ DE OCA Title: FCCS Date: 1/25/23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 37 Medea Ck/Chesesboro Ck Outlet T.G.: 558-A6**

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

No work was done and 0.25 acres of vegetation was present in the channel in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

NOISE IMPACT WAS AT A MINIMAL, DUE TO THE USE OF
HAND TOOLS AND POWER TOOLS FITTED WITH APPROVED MUFFLERS.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 1/24/23

Approved by: Name: LUIS MONTEZ DE OCA

Title: M.F.C.C.S Date: 1/25/23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 38 Lindero M.C.O. T.G.: 558-A6**

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.19 acre. No native trees shall be removed with a 2 inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

ALL VEGETATION REMOVED BY HAND TOOLS AND POWER TOOLS SUCH AS, HEDGE TRIMMERS, WEED EATERS AND CHAINSAW. ALL POWER TOOLS ARE EQUIPPED WITH APPROVED EXHAUST.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 2/1/23

Project end date: 2/6/23

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 2/6/23

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 2/9/23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 9.43

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 38 Lindero M.C.O. T.G.: 558-A6**

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.19 acre. No native trees shall be removed with a 2 inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 2/6/23

Approved by: Name: LUS MONTES DEOD

Title: FCCS Date: 2/9/23

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 38 Lindero M.C.O. T.G.: 558-A6**

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.19 acre. No native trees shall be removed with a 2 inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

ALL VEGETATION REMOVED BY HAND TOOLS AND POWER TOOLS SUCH AS, WEED EATERS, HEDGE TRIMMERS AND CHAIN SAW. ALL POWER TOOLS ARE EQUIPPED WITH APPROVED MUFFLERS.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: Ryan Morillo

Title: CREW LEADER Date: 2/6/23

Approved by: Name: LUIS MONTES DE OCA

Title: FC CS Date: 2/9/23

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 39 Beatty Channel Outlet @ SGR T.G.: 568-F4**

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality.

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Project start date: 12-1-2022

Project end date: 12-31-2022

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 39 Beatty Channel Outlet @ SGR** T.G.: **568-F4**

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise efforts.

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 5-10-2023

Approved by: Name: _____

Title: Principal Engr. Date: 5-10-2023

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 40A San Gabriel River**

T.G.: 597-H5

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality efforts was undertaken. Vegetation removed from the stream bed was hauled via truck to Puente Hills Material Recovery Facility.

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Project start date: 1/1/2023

Project end date: 3/1/2023

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 52

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 120

Location/Channel Reach#: **Reach No. 40A San Gabriel River** T.G.: **597-H5**

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is diverted.

Description of Activity/Method of Implementation:

Water at the site was not present during this annual clearing event. A contractor carried out the soft bottom clearing efforts in this reach utilizing a combination of mowers and hand clearing.

Disposition: X No water monitoring performed.

 Water monitoring was not fully implemented. Further action is required.
(Please explain below.)

 Water monitoring was not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

No equipment used. No water monitoring was performed.

Biologist on site: **No** **Yes**

Date: _____

Biologist Comments/Instructions:

None

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 40A San Gabriel River**

T.G.: 597-H5

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise efforts was undertaken. Noise was not an issue on this clearing project. During the contractor's work we received no complaint calls from adjacent businesses or homeowners due to noise, dust, or any other nuisance.

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 5-10-2023

Approved by: Name: _____

Title: Principal Engr. Date: 5-10-2023

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 40B San Gabriel River**

T.G.: 637-F4

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality. Vegetation was removed from the stream bed and was hauled via truck to Puente Hills Material Recovery Facility.

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Project start date: 3-1-2023

Project end date: 3-24-2023

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** **Trash/Debris Removed (Tons)** 40

Mitigation Measure #: 2 **Exotic Veg. Removed (Sq. Ft.)** 100

Location/Channel Reach#: **Reach No. 40B San Gabriel River** **T.G.: 637-F4**

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is diverted.

Description of Activity/Method of Implementation:

No flowing water was near the maintenance areas during this annual clearing event. A contractor carried out the soft bottom clearing efforts in this reach utilizing a combination of mowers and hand clearing. A biologist was on site before and during the work in Reach 40B marking vegetation to be protected or removed. After being approved by the permitting agencies, a biological survey was performed before the maintenance work in the bird nesting season. A biological monitor was also present during the maintenance in the bird nesting season.

Disposition: X No water monitoring performed.

 Water monitoring was not fully implemented. Further action is required.
(Please explain below.)

 Water monitoring was not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Work was carried out in areas where water was not present.

Biologist on site: No Yes

Date: During maintenance especially in the
nesting season (survey and monitor)

Biologist Comments/Instructions:

A biologist was on site before and during the mowing activities. He marked all those trees to be protected and those to be removed with a tagging system. Red ribbon was to be protected and blue ribbon was to be removed.

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 40B San Gabriel River**

T.G.: 637-F4

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise. Noise was not an issue on this clearing project. During the contractor's work we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 5-10-2023

Approved by: Name: _____

Title: Principal Engr. Date: 5-10-2023

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 41 Walnut Creek**

T.G.: 637-H2

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No maintenance in

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Project start date: 11-7-2022

Project end date: 11-30-2022

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 210

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 60

Location/Channel Reach#: **Reach No. 41 Walnut Creek** T.G.: **637-H2**

Permit Requirements:

The permit requires that we monitor water quality at the site and prepare a water diversion plan if water is present. Water was not present; thus, no diversion plan was required, and no water samples were taken. Flail mowers removed most of the vegetation within the soft bottom and hand crews were dispatched ahead of the mowers to remove any invasive/exotics that were identified.

Description of Activity/Method of Implementation:

There was no flowing water within the work site.

Disposition: X No water monitoring performed.

 Water monitoring was not fully implemented. Further action is required.
(Please explain below.)

 Water monitoring was not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

No equipment used. Water samples monitoring was not required.

Biologist on site: **No** **Yes**

Date: _____

Biologist Comments/Instructions:

None

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 41 Walnut Creek**

T.G.: 637-H2

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise. Noise was not an issue on this clearing project. During our operation we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 5-10-2023

Approved by: Name: _____

Title: Principal Engr. Date: 5-10-2023

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 42 San Jose Creek**

T.G.: 637-E5

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No maintenance work was performed on this reach this season

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Project start date: N/A

Project end date: N/A

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** **Trash/Debris Removed (Tons)** N/A

Mitigation Measure #: **2** **Exotic Veg. Removed (Sq. Ft.)** N/A

Location/Channel Reach#: **Reach No. 42 San Jose Creek** **T.G.: 637-E5**

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is flowing.

Description of Activity/Method of Implementation:

No maintenance work was performed on this reach this season

Disposition: No water monitoring performed.

 Water monitoring was not fully implemented. Further action is required.
(Please explain below.)

 Water monitoring was not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Biologist on site: **Yes** **No** **Date:** N/A

Biologist Comments/Instructions:

None

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 42 San Jose Creek**

T.G.: 637-E5

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No maintenance work was performed on this reach this season

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 5-10-2023

Approved by: Name: _____

Title: Principal Engr. Date: 5-10-2023

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 43 (San Gabriel River)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Mechanical clearing of vegetation will be used for approved clearing activities. Trimming of the riparian vegetation may be necessary in the future as growth occurs. The vegetation that is seasonally occupied by the least Bell's vireo will be flagged and a qualified biological monitor will be present during clearing activities.

Description of Activity/Method of Implementation:

The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. Debris was put on to tarps and removed. Minimal amount of dust was generated. Water trucks were used for dust suppression when necessary.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/19/22

Project End Date: 11/30/22

Completed by:	
Name:	<i>[Signature]</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>05/11/2023</i>

Approved by:	
Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

J&C

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 43 (San Gabriel River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	22

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB) for flowing water. The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. Debris was put on tarps and removed. All equipment and trucks had their tires and undercarriage cleaned before leaving the site. Biologist on site during clearing activity and BMP's were implemented to maintain water quality. The following Best Management Practices were deemed to be applicable and implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Completed by:

Name:	<i>[Signature]</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>05/11/2023</i>

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 43 (San Gabriel River)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. Debris was put on to tarps and removed. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>[Signature]</i>
Title:	Construction Superintendent
Date:	05/11/2023

Approved by:

Name:	<i>[Signature]</i> Eden Berhan
Title:	St. Civil Engineer
Date:	5/16/2023

JAC

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name San Gabriel River Whittier Narrows
 Reach Number 43

Date	Air	H2O	Noise	Comment	Initial
9/19/22	GOOD	DRY	AMBIENT	START of #43	NA
9/20/22	GOOD	DRY	AMBIENT	NONE	NA
9/21/22	GOOD	DRY	AMBIENT	NONE	NA
9/22/22	GOOD	DRY	AMBIENT	NONE	NA
9/23/22	GOOD	DRY	AMBIENT	NONE	NA
9/26/22	GOOD	DRY	AMBIENT	NONE	NA
9/27/22	GOOD	DRY	AMBIENT	NONE	NA
9/28/22	GOOD	DRY	AMBIENT	NONE	NA
9/30/22	GOOD	DRY	AMBIENT	NONE	NA
10/3/22	GOOD	DRY	AMBIENT	NONE	NA
10/4/22	GOOD	DRY	AMBIENT	NONE	NA
10/5/22	GOOD	DRY	AMBIENT	NONE	NA

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name San Gabriel River Whittier Narrows

Reach Number 43

Date	Air	H2O	Noise	Comment	Initial
10/6/22	Good	Dry	Ambient	NONE	NA
10/7/22	Good	Dry	Ambient	NONE	NA
10/10/22	Good	Dry	Ambient	NONE	NA
10/11/22	Good	Dry	Ambient	NONE	NA
10/12/22	Good	Dry	Ambient	NONE	NA
10/13/22	Good	Dry	Ambient	NONE	NA
10/14/22	Good	Dry	Ambient	NONE	NA
10/17/22	Good	Dry	Ambient	NONE	NA
10/18/22	Good	Dry	Ambient	NONE	NA
10/19/22	Good	Dry	Ambient	NONE	NA
10/20/22	Good	Dry	Ambient	NONE	NA
10/21/22	Good	Dry	Ambient	NONE	NA

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name San Gabriel River Whittier Narrows
 Reach Number 43

Date	Air	H2O	Noise	Comment	Initial
10/24/22	GOOD	DRY	AMBIENT	NONE	NA
10/25/22	GOOD	DRY	AMBIENT	NONE	NA
10/26/22	GOOD	DRY	AMBIENT	NONE	NA
10/27/22	GOOD	DRY	AMBIENT	NONE	NA
10/28/22	GOOD	DRY	AMBIENT	NONE	NA
10/31/22	GOOD	DRY	AMBIENT	NONE	NA
11/1/22	GOOD	DRY	AMBIENT	NONE	NA
11/2/22	GOOD	DRY	AMBIENT	NONE	NA
11/3/22	GOOD	DRY	AMBIENT	NONE	NA
11/4/22	GOOD	DRY	AMBIENT	NONE	NA
11/7/22	GOOD	DRY	AMBIENT	NONE	NA
11/8/22	GOOD	DRY	AMBIENT	NONE	NA

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name San Gabriel River Whittier Narrows
 Reach Number 43

Date	Air	H2O	Noise	Comment	Initial
11/9/22	Good	Dry	Ambient	NONE	NA
11/10/22	Good	Dry	Ambient	NONE	NA
11/11/22	Good	Dry	Ambient	NONE	NA
11/14/22	Good	Dry	Ambient	NONE	NA
11/15/22	Good	Dry	Ambient	NONE	NA
11/16/22	Good	Dry	Ambient	NONE	NA
11/17/22	Good	Dry	Ambient	NONE	NA
11/18/22	Good	Dry	Ambient	NONE	NA
11/21/22	Good	Dry	Ambient	NONE	NA
11/22/22	Good	Dry	Ambient	NONE	NA
11/29/22	Good	Dry	Ambient	NONE	NA
11/30/22	Good	Dry	Ambient	Last Day Reach #43 NONE	NA

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 44 (San Gabriel River)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Mechanical clearing of vegetation will be used for clearing activities. Some trimming of the riparian vegetation may be necessary as growth occurs per original permit conditions.

Description of Activity/Method of Implementation:

Mechanical equipment was used to keep the channel clear of vegetation. Mowers were used in most areas. Trees were trimmed, and non-native trees removed. Minimal amount of dust was generated. Water trucks were used for dust suppression as necessary.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/19/22

Project End Date: 11/21/22

Completed by:

Name:	<i>[Signature]</i>
Title:	Construction Superintendent
Date:	05/11/2023

Approved by:

Name:	<i>[Signature]</i> Eden Berhan	<i>JAE</i>
Title:	Sr. Civil Engineer	
Date:	5/16/2023	

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 44 (San Gabriel River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	2

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB) for flowing water. Mechanical equipment was used to keep the channel clear of vegetation. Mowers were used in most areas. Trees were trimmed, and non-native trees removed. All equipment and trucks had their tires and undercarriage cleaned before leaving the site to maintain water quality. Biologist on site during clearing activity and BMP's were implemented to maintain water quality

The following Best Management Practice was deemed to be applicable and was implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Completed by:

Approved by:

Name:	<i>[Signature]</i>
Title:	<i>Inspection Superintendent</i>
Date:	<i>05/11/2023</i>

Name:	<i>[Signature] Eden Berhan</i>
Title:	<i>So. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAE

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 44 (San Gabriel River)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Mechanical equipment was used to keep the channel clear of vegetation. Mowers were used in most areas. Trees were trimmed, and non-native trees removed. Activity in the reach maintained minimal noise during the working hours. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:	
Name:	<i>[Signature]</i>
Title:	<i>Customer Superintendent</i>
Date:	<i>05/11/2023</i>

Approved by:	
Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAC

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name San Gabriel River Rubber Dams, SD, 4
 Reach Number 44

Date	Air	H2O	Noise	Comment	Initial
9/19/22	Good	Dry	Ambient	Start of Reach # 44	NA
9/20/22	Good	Dry	Ambient	NONE	NA
9/21/22	Good	Dry	Ambient	NONE	NA
9/22/22	Good	Dry	Ambient	NONE	NA
9/23/22	Good	Dry	Ambient	NONE	NA
9/26/22	Good	Dry	Ambient	NONE	NA
9/27/22	Good	Dry	Ambient	NONE	NA
9/28/22	Good	Dry	Ambient	NONE	NA
9/29/22	Good	Dry	Ambient	NONE	NA
9/30/22	Good	Dry	Ambient	NONE	NA
10/3/22	Good	Dry	Ambient	NONE	NA
10/4/22	Good	Dry	Ambient	NONE	NA

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name San Gabriel River Rubber Dams, SD, 4
 Reach Number 44

Date	Air	H2O	Noise	Comment	Initial
10/5/22	Good	Dry	Ambient	NONE	MA
10/6/22	Good	Dry	Ambient	NONE	MA
10/7/22	Good	Dry	Ambient	NONE	MA
10/10/22	Good	Dry	Ambient	NONE	MA
10/11/22	Good	Dry	Ambient	NONE	MA
10/12/22	Good	Dry	Ambient	NONE	MA
10/13/22	Good	Dry	Ambient	NONE	MA
10/14/22	Good	Dry	Ambient	NONE	MA
10/17/22	Good	Dry	Ambient	NONE	MA
10/18/22	Good	Dry	Ambient	NONE	MA
10/19/22	Good	Dry	Ambient	NONE	MA
10/20/22	Good	Dry	Ambient	NONE	MA

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name San Gabriel River Rubber Dams, SD, 4
 Reach Number 44

Date	Air	H2O	Noise	Comment	Initial
10/21/22	Good	Dry	Ambient	NONE	MA
10/24/22	Good	Dry	Ambient	NONE	MA
10/25/22	Good	Dry	Ambient	NONE	MA
10/26/22	Good	Dry	Ambient	NONE	MA
10/27/22	Good	Dry	Ambient	NONE	MA
10/28/22	Good	Dry	Ambient	NONE	MA
10/31/22	Good	Dry	Ambient	NONE	MA
11/1/22	Good	Dry	Ambient	NONE	MA
11/2/22	Good	Dry	Ambient	NONE	MA
11/3/22	Good	Dry	Ambient	NONE	MA
11/4/22	Good	Dry	Ambient	NONE	MA
11/14/22	Good	Dry	Ambient	NONE	MA

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

7910687

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 47 Santa Clara River T.G.: 4552-A3 TO 4551-J3**
(PD 1733 unit 1)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF VEGETATION WITHIN 20' LIMIT.
WATER TRUCK WAS USED TO MINIMIZE DUST AND REMAINED ON SITE
AND SPRAYED WATER AS NEEDED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS TARPED DURING TRANSPORTATION OF VEGETATION.

Project start date: 10-11-2022

Project end date: 10-12-2022

Completed by: Name: EMILIO NIKLES-ORDONEZ Title: PWCL Date: 10-11-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 4.6

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 47 Santa Clara River** T.G.: 4552-A3 TO 4551-J3
(PD 1733 unit 1)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO EXOTIC PLANTS FOUND ON SITE.

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIEVES-ORDAZ Title: PWCA Date: 10/11/2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 47 Santa Clara River T.G.: 4552-A3 TO 4551-J3
(PD 1733 unit 1)**

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES-ORDONEZ

Title: PWCL Date: 10/11/2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/13/22

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER

Reach Number 47

Date	Air	H2O	Noise	Comment	Initial
10-11-2022	✓	✓	✓	NONE	END
10-12-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

7910912

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 48 Mint Cyn Channel T.G.: 4552-A1 TO 4551- J2**
Between Sierra Hwy & Adon Ave

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND WORK OF REMOVAL OF ALL VEGETATION, WATER TRUCK WAS USED TO MINIMIZE DUST AND WAS USED AS NEEDED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-24-2022

Project end date: 10-31-2022

Completed by: Name: EMILIO NILES-ORONIZ Title: PLWCL Date: 10-24-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 11/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 50

Location/Channel Reach#: **Reach No. 48 Mint Cyn Channel** T.G.: 4552-A1 TO 4551- J2
Between Sierra Hwy & Adon Ave

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

50 SF OF TAMARISK REMOVED.

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ ORDOZ Title: PWCA Date: 10-24-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 11/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 48 Mint Cyn Channel T.G.: 4552-A1 TO 4551- J2
Between Sierra Hwy & Adon Ave**

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Description of Activity/Method of Implementation:

ALL WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER NOISE DEVICES.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIBAS-CRUIZ

Title: PWCL Date: 10-24-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 11/7/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name MINIF CYN CHANEL
 Reach Number 49

Date	Air	H2O	Noise	Comment	Initial
10-24-2022	✓	✓	✓	50 SF OF TAMARISK REMOVED	END
10-25-2022	✓	✓	✓	NONE	END
10-26-2022	✓	✓	✓	" "	END
10-27-2022	✓	✓	✓	" "	END
10-28-2022	✓	✓	✓	" "	END
10-31-2022	✓	✓	✓	" "	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

7910912

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 49 Mint Cyn. Channel
Between Adon Ave & Scherzinger Ln**

T.G.: 4551- J2

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. This process will be repeated annually during the dry season.

Description of Activity/Method of Implementation:

MECHANICAL & HAND WORK OF REMOVAL OF ALL VEGETATION / WATER TRUCK WAS USED TO MINIMIZE DUST.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-24-2022

Project end date: 10-31-2022

Completed by: Name: EMILIO ANDRÉS ORTIZ Title: PWCL Date: 10-24-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 11/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 50

Location/Channel Reach#: **Reach No. 49 Mint Cyn. Channel
Between Adon Ave & Scherzinger Ln**

T.G.: 4551- J2

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. This process will be repeated annually during the dry season.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

50 SF OF TAMARISK REMOVED

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIKESORTU

Title: PWCL Date: 10-24-2021

Approved by: Name: Juan Cubera

Title: FCCS Date: 11/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 49 Mint Cyn. Channel
Between Adon Ave & Scherzinger Ln**

T.G.: 4551- J2

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. This process will be repeated annually during the dry season.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES-ORDINEZ

Title: PWU Date: 10-24-2021

Approved by: Name: Suan Cabrera

Title: FCCS Date: 11/7/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name MINT CANAL CHANEL
 Reach Number 49

Date	Air	H2O	Noise	Comment	Initial
10-24-2022	✓	✓	✓	50 SF OF TAMARISK REMOVED	ENO
10-25-2022	✓	✓	✓	NONE	ENO
10-26-2022	✓	✓	✓	" "	ENO
10-27-2022	✓	✓	✓	" "	ENO
10-28-2022	✓	✓	✓	" "	ENO
10-31-2022	✓	✓	✓	" "	ENO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910687

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 53 Santa Clara River (PD 832) T.G.: 4551-H4**
Main Channel Inlet

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION, WATER TRUCK
SPRAYED WATER PRIOR REMOVAL OF VEGETATION AND SPRAYED AS
NEEDED AND REMAINED ON SITE AT ALL TIMES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-18-2022

Project end date: 10-18-2022

Completed by: Name: EMILIO NILES-ORDONEZ Title: PWCL Date: 10-18-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/19/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 100
Location/Channel Reach#: **Reach No. 53 Santa Clara River (PD 832)** T.G.: **4551-H4**
Main Channel Inlet

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

100 SF OF TOBACCO PLANT REMOVED.

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIVAS-CRONZ Title: PWCL Date: 10-18-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/19/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 53 Santa Clara River (PD 832) T.G.: 4551-H4**
Main Channel Inlet

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES ORDONEZ

Title: PWCL Date: 10-18-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/19/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER
 Reach Number 53

Date	Air	H2O	Noise	Comment	Initial
10/8/2022	✓	✓	✓	100 SF OF TOBACCO PLANT REMOVED	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

7910087

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 54 Santa Clara River (PD 832) T.G.: 4551-H3 TO H4
Main Channel Outlet**

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.31 acre.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION, WATER TRUCK
SPRINKLED WATER PRIOR REMOVAL OF VEGETATION AND STAYED ON SITE
AND USED AS NEEDED.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-17-2022

Project end date: 10-17-2022

Completed by: Name: EMILIO NILES-ORDOZ Title: PWCL Date: 10-17-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/18/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 54 Santa Clara River (PD 832) T.G.: 4551-H3 TO H4
Main Channel Outlet**

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.31 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

REPAIRS WERE MADE ON OUTLET AND ALSO SOME EROSION REPAIRS AS WELL

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIONABES-ORDANIZ

Title: PWCL

Date: 10-17-2022

Approved by: Name: Juan Cabrera

Title: FCCS

Date: 10/18/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 54 Santa Clara River (PD 832) T.G.: 4551-H3 TO H4
Main Channel Outlet**

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.31 acre.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE
ORDINANCES, ALL EQUIPMENT AND VEHICLES ARE EQUIPPED WITH PROPER
EXHAUST DEVICES.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NUNEZ-RODRIGUEZ

Title: PWCL Date: 10-17-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/18/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER
 Reach Number 54

Date	Air	H2O	Noise	Comment	Initial
10-17-2022	✓	✓	✓	NONE	ENO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910687

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 55 Santa Clara River Main Chan. T.G.: 4551-H3 TO H4**
(PD's 910, 832, 1758, & 1562 unit 2)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 2.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT
WATER TRUCK USED AT ALL TIMES TO MINIMIZE DUST

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-12-2022 Project end date: 10-14-2022

Completed by: Name: EMILIO NIBES-ORDONEZ Title: PWCL Date: 10-12-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/17/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 55 Santa Clara River Main Chan.** T.G.: 4551-H3 TO H4
(PD's 910, 832, 1758, & 1562 unit)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 2.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NILES ORTIZ Title: PWCC Date: 10-17-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/17/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 55 Santa Clara River Main Chan. T.G.: 4551-H3 TO H4**
(PD's 910, 832, 1758, & 1562 unit

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 2.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT TIME HOURS IN COMPLIANCE WITH LOCAL NOISE
ORDINANCES / ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER
EXHAUST DEVICES

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES-ORDANIZ

Title: PWA Date: 10-12-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/17/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER
Reach Number 55

Date	Air	H2O	Noise	Comment	Initial
10-12-2022	✓	✓	✓	NONE	ENO
10-13-2022	✓	✓	✓	NONE	ENO
10-14-2022	✓	✓	✓	NONE	ENO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

7910687

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 56 Santa Clara River
(PD 1562 unit 2)**

T.G.: 4551-G1

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.47 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT
WATER TRUCK WAS USED AT ALL TIMES TO MINIMIZED DUST.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-17-2022

Project end date: 10-18-2022

Completed by: Name: EMILIO NILES-ORDANIZ Title: PWCL Date: 10-17-2022

Approved by: Name: SUAN CABRERA Title: FCCS Date: 10/19/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 56 Santa Clara River** T.G.: 4551-G1
(PD 1562 unit 2)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.47 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO VILAS ORDINEZ Title: PWCL Date: 10-17-2022
Approved by: Name: Suan Cabrera Title: FCCS Date: 10/19/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 56 Santa Clara River
(PD 1562 unit 2)**

T.G.: 4551-G1

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.47 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, EQUIPMENT AND ALL VEHICLES ARE EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES-ORDAZ

Title: PWU Date: 10-17-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/19/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER
Reach Number 56

Date	Air	H2O	Noise	Comment	Initial
10-17-2022	✓	✓	✓	NONE	END
10-18-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910687

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 58 Santa Clara River (PD374)** T.G.: 4551-G3 TO F3
U/S side old Soledad Cyn. Rd Bridge

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 0.95 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND WORK OF CLEARING OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK WAS USED AT ALL TIMES TO MINIMIZED DUST AND REMAINED
ON SITE AT ALL TIMES AND USED AS NEEDED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS WERE TAPPED WHILE TRANSPORTING ALL DEBRIS REMOVED.

Project start date: 10-13-2022

Project end date: 10-17-2022

Completed by: Name: EMILIO NUNEZ-ORDANIZ Title: PURCH Date: 10-13-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/17/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 5.6

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 58 Santa Clara River (PD374)** T.G.: 4551-G3 TO F3
U/S side old Soledad Cyn. Rd Bridge

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 0.95 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIBES CRONIZ Title: PWCL Date: 10-13-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/18/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 58 Santa Clara River (PD374)** T.G.: **4551-G3 TO F3**
U/S side old Soledad Cyn. Rd Bridge

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 0.95 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH
PROPER EXHAUST DEVICES

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIVAS ORDONEZ

Title: PWCL Date: 10-13-2022

Approved by: Name: Suan Cabrera

Title: FCCS Date: 10/18/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER
Reach Number 58

Date	Air	H2O	Noise	Comment	Initial
10-13-2022	✓	✓	✓	NONE	ENO
10-14-2022	✓	✓	✓	NONE	ENO
10-17-2022	✓	✓	✓	NONE	ENO

791 0687

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 60 Santa Clara River** T.G.: 4551- F3 TO E2
(PD's 1339 & 374)

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 1.50 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND REMOVAL OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK SPRAYED WATER PRIOR VEGETATION REMOVAL AND STAYED ON
SITE AND SPRAYED AS NEEDED.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-11-2022

Project end date: 10-14-2022

Completed by: Name: EMILIO NILES-RODRIGUEZ Title: PWCL Date: 10-11-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/17/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 60 Santa Clara River** T.G.: 4551- F3 TO E2
(PD's 1339 & 374)

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 1.50 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ ORTIZ

Title: PWCL Date: 10-11-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/17/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 60 Santa Clara River** **T.G.: 4551- F3 TO E2**
(PD's 1339 & 374)

Permit Requirements *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 1.50 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCES.
ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE.

Completed by: Name: EMILIONIBES-ORDONEZ

Title: PWU Date: 10-11-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/17/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER
 Reach Number 60

Date	Air	H2O	Noise	Comment	Initial
10-11-2022	✓	✓	✓	NONE	END
10-12-2022	✓	✓	✓	NONE	END
10-13-2022	✓	✓	✓	NONE	END
10-14-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

7910687

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 61 Santa Clara River (PD 659) T.G.: 4551-E2**
D/S New Soledad Canyon. Rd. Bridge

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 0.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK WAS USED AT ALL TIMES TO MINIMIZED DUST AND WAS
USE AS NEEDED

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS TARPED DURING TRANSPORTATION OF VEGETATION.

Project start date: 10-11-2022

Project end date: 10-12-2022

Completed by: Name: EMILIO NIKES-ORDAZ Title: PWCL Date: 10-11-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 61 Santa Clara River (PD 659)** T.G.: 4551-E2
D/S New Soledad Canyon. Rd. Bridge

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 0.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: AMILIO NILES-ORDONEZ Title: PWCL Date: 10-11-2022
Approved by: Name: Juan Calavera Title: FCCS Date: 10/13/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 61 Santa Clara River (PD 659) T.G.: 4551-E2
D/S New Soledad Canyon. Rd. Bridge

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 0.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE
ORDINANCES AND ALL VEHICLES AND EQUIPMENT ARE EQUIPPED WITH
PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NUNEZ-ORDONEZ

Title: PWCL Date: 10-11-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/13/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER

Reach Number 61

Date	Air	H2O	Noise	Comment	Initial
10-11-2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NONE	END
10-12-2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7911065

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 63 Oak Ave Rd Drainage**
(CDR 523.081)

T.G.: 4551-C2

Permit Requirements:

The channel clearing work will involve mechanized removal of all vegetation bank to bank.

Impacts shall not exceed 0.85 acre.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND WORK OF REMOVAL OF ALL VEGETATION ON
CHANNEL INURPT.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-31-2022

Project end date: 10-31-2022

Completed by: Name: EMILIO NUNEZ-SORIANO Title: PWU Date: 10-31-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 11/2/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 63 Oak Ave Rd Drainage
(CDR 523.081)**

T.G.: **4551-C2**

Permit Requirements:

The channel clearing work will involve mechanized removal of all vegetation bank to bank.

Impacts shall not exceed 0.85 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO INVASIVE PLANTS WERE FOUND.

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NILES-ORDINEZ

Title: PWCL Date: 10-31-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 11/2/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 63 Oak Ave Rd Drainage
(CDR 523.081)**

T.G.: 4551-C2

Permit Requirements:

The channel clearing work will involve mechanized removal of all vegetation bank to bank.

Impacts shall not exceed 0.85 acre.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCES. EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER
EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIVES-ORDONEZ

Title: PWCL Date: 10-31-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 11/2/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name CDR 523 081

Reach Number 63

Date	Air	H2O	Noise	Comment	Initial
10-31-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910939

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 64 Soledad Cyn Rd Drainage** T.G.: **4551 - B2**
(CDR523.071 D Outlet)

Permit Requirements:

The channel clearing work will involve clearing an 8-foot-wide path along the centerline of the channel. All vegetation will be removed by hand labor.

Impacts shall not exceed 0.10 acre (8 feet wide by 577 linear feet).

Description of Activity/Method of Implementation:

MECHANICAL AND HAND WORK OF REMOVAL OF VEGETATION, WATER TRUCK
WAS USED TO MINIMIZED DUST AND USED AS NEEDED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE, NO flowing water

Project start date: 10-31-2022

Project end date: _____

Completed by: Name: EMILIONILES-ORDONEZ Title: PWCL Date: 10-31-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 11/8/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 26

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 150

Location/Channel Reach#: **Reach No. 64 Soledad Cyn Rd Drainage** T.G.: **4551 - B2**
(CDR523.071 D Outlet)

Permit Requirements:

The channel clearing work will involve clearing an 8-foot-wide path along the centerline of the channel. All vegetation will be removed by hand labor.

Impacts shall not exceed 0.10 acre (8 feet wide by 577 linear feet).

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

150 SF OF TOBACCO PLANT

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NILES-ORDONEZ

Title: PWCL Date: 10-31-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 11/8/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 64 Soledad Cyn Rd Drainage** T.G.: **4551 - B2**
(CDR523.071 D Outlet)

Permit Requirements:

The channel clearing work will involve clearing an 8-foot-wide path along the centerline of the channel. All vegetation will be removed by hand labor.

Impacts shall not exceed 0.10 acre (8 feet wide by 577 linear feet).

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIVAS ORDOZ

Title: PWCL Date: 10-31-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 11/8/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SOLEDAD CYN RD DRAINAGE
Reach Number 64

Date	Air	H2O	Noise	Comment	Initial
10/31/2022	✓	✓	✓	150 SF OF TOBACCO PLANT REMOVED	ENO
11-01-2022	✓	✓	✓	NONE	AF

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

7910687

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 66 Santa Clara River (PD 1538)** T.G.: 4550-H2

Permit Requirements:

The channel clearing will involve mechanized removal of all vegetation within 20 feet from the slope lining along the entire reach.

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

HAND CLEARING OF ALL VEGETATION

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 11/07/2022

Project end date: 11/07/2022

Completed by: Name: Anthony Fusco Title: PWCL Date: 11/07/2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 11/8/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 66 Santa Clara River (PD 1538)**

T.G.: **4550-H2**

Permit Requirements:

The channel clearing will involve mechanized removal of all vegetation within 20 feet from the slope lining along the entire reach.

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Anthony Fusco

Title: PWCL Date: 11/07/2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 11/8/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 66 Santa Clara River (PD 1538)** T.G.: 4550-H2

Permit Requirements:

The channel clearing will involve mechanized removal of all vegetation within 20 feet from the slope lining along the entire reach.

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN
COMPLIANCE WITH LOCAL NOISE ORDINANCES. ALL EQUIPMENT
AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: Anthony Fusco

Title: PWCL Date: 11/07/2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 11/8/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER
Reach Number 66

Date	Air	H2O	Noise	Comment	Initial
11-07-2022	✓	✓	✓	LIGHT RAIN DURING DEBRUSHING	AF

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910984

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 67 Bouquet Canyon Upper T.G.: 4461-D1 TO D6
(PD's 1201, 802, 700B, & 625B)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (1.33 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20'
LIMIT. WATER TRUCK SPRAYED WATER PRIOR TO VEGETATION REMOVAL
TO MINIMIZED DUST, WATER TRUCK WAS USED AS NEEDED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS TARPED DURING TRANSPORTATION OF DEBRIS.
100 SF OF ARBUDO WAS REMOVED FROM SITE.

Project start date: 9-12-2022

Project end date: 9-15-2022

Completed by: Name: EMILIO NIVAS ORDONEZ Title: PWCL Date: 9-12-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 9/12/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 14.5
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 100
Location/Channel Reach#: **Reach No. 67 Bouquet Canyon Upper** T.G.: 4461-D1 TO D6
(PD's 1201, 802, 700B, & 625B)

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (1.33 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

100 SF OF ARUNDO WAS REMOVED BY HAND ON WORKSITE.

Biologist on site: No Yes

Date: 9-15-2022

Biologist Comments/Instructions:

Completed by: Name: EMILIO NICHES-ORDONEZ

Title: PWCL Date: 9-12-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 9/12/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 67 Bouquet Canyon Upper T.G.: 4461-D1 TO D6
(PD's 1201, 802, 700B, & 625B)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (1.33 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES
EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NICHES ORDOZ Title: PWCL Date: 9-12-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 9/12/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name BOUQUET CHANNEL UPPER
 Reach Number 67

Date	Air	H2O	Noise	Comment	Initial
9-12-2022	✓	✓	✓	100 SF. OF ARUNDI REMOVED	END
9-13-2022	✓	✓	✓	NONE	END
9-14-2022	✓	✓	✓	NONE	END
9-15-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910484

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 69 Bouquet Canyon Middle T.G.: 4461-C6 TO A7
(PD's 722,773,1365,1065, & 451)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (0.62 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND WORK OF CLEARING OF VEGETATION WITHIN 20' LIMIT
WATER TRUCK USED AT ALL TIMES TO MINIMIZE DUST AND KEPT ON
WORKSITE AND USED AS NEEDED.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS TARPED ON AND DURING TRANSPORTATION
OF VEGETATION, EXOTIC VEGETATION REMOVED FROM LOCATION
WAS AROUND APPX 200 SF.

Project start date: 9-16-2022

Project end date: 9-21-2022

Completed by: Name: EMILIO NILES-ORDONEZ Title: PWCL Date: 9-16-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 9/16/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 32.5

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 200

Location/Channel Reach#: **Reach No. 69 Bouquet Canyon Middle T.G.: 4461-C6 TO A7
(PD's 722,773,1365,1065, & 451)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (0.62 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO WATER RUNNING ON CREEK, ARUNDO WAS REMOVED BY HAND 200 SF

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NILES ORDONEZ

Title: PWCL Date: 9-16-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 9/16/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 69 Bouquet Canyon Middle T.G.: 4461-C6 TO A7
(PD's 722,773,1365,1065, & 451)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (0.62 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES
ARE EQUIPPED WITH PROPER EXHAUST DEVICES

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIEVES-ORDONEZ

Title: PWCL Date: 9-16-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 9/16/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name BUDGET CHANNEL (MIDDLE)
 Reach Number 69

Date	Air	H2O	Noise	Comment	Initial
9-16-2022	✓	✓	✓	200 SF. OF ARUNDO REMOVED	END
9-19-2022	✓	✓	✓	NONE	END
9-20-2022	✓	✓	✓	NONE	END
9-21-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910984

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 70 Bouquet Canyon Lower T.G.: 4550- J1 TO H-1
(PD's 544 & 345)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

HAND WORK AS WELL AS MECHANICAL OF VEGETATION REMOVAL
WATER TRUCK WAS USED AT ALL TIMES TO MINIMIZED DUST
AT WORKSITE AND WAS USED AS NEEDED.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS TAPPED ON AND DURING TRANSPORTATION
OF VEGETATION. EXOTIC VEGETATION REMOVED FROM JOB SITE
WAS ARUNDO APPX 100 SF.

Project start date: 9-20-2022

Project end date: 9-22-2022

Completed by: Name: EMILIO NUNEZ-ORDONEZ Title: PWCL Date: 9-20-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 9/20/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 100

Location/Channel Reach#: **Reach No. 70 Bouquet Canyon Lower T.G.: 4550- J1 TO H-1 (PD's 544 & 345)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO RUNNING WATER ON CHANNEL, ARUNDO WAS REMOVED BY HAND 100 SF.

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILY NICHOLS ORR Title: PWCL Date: 9-20-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 9/20/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 70 Bouquet Canyon Lower T.G.: 4550- J1 TO H-1
(PD's 544 & 345)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCES.
ALL EQUIPMENT AND VEHICLES ARE EQUIPPED WITH PROPER
EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES TOROQUE

Title: PWCL Date: 9-20-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 9/20/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name BOUQUET CHANNEL
Reach Number 70

Date	Air	H2O	Noise	Comment	Initial
9-20-2022	✓	✓	✓	100 SF. OF ARUNDO REMOVED	ENO
9-21-2022	✓	✓	✓	NONE	ENO
9-22-2022	✓	✓	✓	NONE	ENO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910687

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 71 Santa Clara River
Main Channel (PD1946)**

T.G.: 4550-E2

Permit Requirements: *The channel clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.*

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCKS WERE USED TO MINIMIZED DUST AND REMAINED ON SITE
AND SPRAYED WATER AS NEEDED.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-12-2022

Project end date: 10-12-2022

Completed by: Name: EMILIO NUNES-ORDONEZ Title: PWCA Date: 10-12-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 71 Santa Clara River** T.G.: **4550-E2**
Main Channel (PD1946)

Permit Requirements: *The channel clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.*

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIVAS ORDONEZ Title: PWCA Date: 10-12-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 71 Santa Clara River
Main Channel (PD1946)**

T.G.: 4550-E2

Permit Requirements: *The channel clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.*

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIKUS-ORDOZ

Title: PWU Date: 10-12-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/13/22

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER.

Reach Number 71

Date	Air	H2O	Noise	Comment	Initial
10-12-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

7911008

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 72 South Fork - Santa Clara River T.G.: 4640-F2
(Smizer Ranch M.C.I.)**

Permit Requirements: The channel clearing work will involve hand clearing dead vegetation and cutting invasive and trimming riparian vegetation that would obstruct flows. Tree canopy will be retained, yet a clear "tunnel" path will be provided to convey flows.

Description of Activity/Method of Implementation:

HAND CLEARING OF ALL VEGETATION, WATER TRUCK WAS NOT NEEDED AT THIS REACH, NO DUST CONTROL WAS NECESSARY.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

TRUCKS TAPPED DURING TRANSPORTATION OF VEGETATION

Project start date: 10-20-2022

Project end date: 10-20-22

Completed by: Name: EMILIO NIBES-ORDONEZ Title: PWU Date: 10-20-2022

Approved by: Name: Juan Cabreria Title: FCCS Date: 10/21/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 4.5

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 30

Location/Channel Reach#: **Reach No. 72 South Fork - Santa Clara River T.G.: 4640-F2
(Smizer Ranch M.C.I.)**

Permit Requirements: The channel clearing work will involve hand clearing dead vegetation and cutting invasive and trimming riparian vegetation that would obstruct flows. Tree canopy will be retained, yet a clear "tunnel" path will be provided to convey flows.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

30 SF OF TAMARISK REMOVED

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIONILES-OPONZ

Title: PWCL Date: 10-20-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/21/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 72 South Fork - Santa Clara River T.G.: 4640-F2
(Smizer Ranch M.C.I.)**

Permit Requirements: The channel clearing work will involve hand clearing dead vegetation and cutting invasive and trimming riparian vegetation that would obstruct flows. Tree canopy will be retained, yet a clear "tunnel" path will be provided to convey flows.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH
PROPER EXHAUST DEVICES

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NUNEZ-CRUZ

Title: PWCL Date: 10-20-2012

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/21/12

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name SOUTH FORK CHANNEL
 Reach Number 72

Date	Air	H2O	Noise	Comment	Initial
10-20-2022	✓	✓	✓	30 SF TAMARISK REMOVED	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910729

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 73 Wildwood Canyon Channel** T.G.: **4640-H2**
(PDT361 Main Channel Inlet)

Permit Requirements: *Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.*

Impacts shall not exceed 0.05 acre.

Description of Activity/Method of Implementation:

HAND CLEARING OF ALL VEGETATION

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE, NO RUNNING WATER

Project start date: 11/07/2022

Project end date: 11/07/2022

Completed by: Name: Anthony Fusco Title: PWCL Date: 11/07/2022

Approved by: Name: Ivan Cabrera Title: FCCS Date: 11/8/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0
Location/Channel Reach#: **Reach No. 73 Wildwood Canyon Channel** T.G.: **4640-H2**
(PDT361 Main Channel Inlet)

Permit Requirements: *Mechanical and hand-clearing work will be performed to keep reach clear of all vegetation.*

Impacts shall not exceed 0.05 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Anthony Fusco Title: PWCL Date: 11/07/2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 11/8/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 73 Wildwood Canyon Channel** T.G.: **4640-H2**
(PDT361 Main Channel Inlet)

Permit Requirements: *Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.*

Impacts shall not exceed 0.05 acre.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN
COMPLIANCE WITH LOCAL NOISE ORDINANCES. ALL EQUIPMENT
AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: Anthony Fusco Title: PWCL Date: 11/07/2022
Approved by: Name: Juan Cabrera Title: FCS Date: 11/8/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name Cedartown St. PD 361

Reach Number 73

Date	Air	H2O	Noise	Comment	Initial
11-07-2002	✓	✓	✓	NONE	AF

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7911008

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 75 South Fork Santa Clara River** T.G.: **4640-F1 TO 450-G3**
(PD's 725, 916, 1041, & 1300)

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation bank to bank from Lyons Avenue to Orchard Village Road.*

Mechanical grading and clearing of invasive vegetation from bank to bank will be performed from Orchard Village Road to the confluence with Newhall Creek.

Mechanical clearing of all vegetation will be done along the base of the concrete levee from the confluence with Newhall Creek to Magic Mountain Parkway. A 20-foot-wide strip will be maintained clear along the entire length of the levee and 45 degree grading of low-flow channels from side outlets to the center of the watercourse will also be maintained clear of all vegetation to minimize pounding and blockage of side outlet flows. A centerline watercourse low flow 12-foot wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor.

The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF VEGETATION, WATER TRUCK SPRAYED WATER TO MINIMIZED DUST AND SPRAYED AS NEEDED, WATER TRUCK ON SITE AT ALL TIMES

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILD WIND CONDITIONS ALL TRUCKS TARPED DURING TRANSPORTATION OF VEGETATION REMOVED.

Project start date: 9-26-2022

Project end date: 10-07-2022

Completed by: Name: EMILIO NIBES-ORDONEZ Title: PWCL Date: 9-26-2022

Approved by: Name: San Cabrera Title: FCCS Date: 10/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 48.5
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 300 SF
Location/Channel Reach#: **Reach No. 75 South Fork** T.G.: **4640-F1 TO 450-G3**
 Santa Clara River
 (PD's 725, 916, 1041, & 1300)

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation bank to bank from Lyons Avenue to Orchard Village Road.*

Mechanical grading and clearing of invasive vegetation from bank to bank will be performed from Orchard Village Road to the confluence with Newhall Creek.

Mechanical clearing of all vegetation will be done along the base of the concrete levee from the confluence with Newhall Creek to Magic Mountain Parkway. A 20-foot-wide strip will be maintained clear along the entire length of the levee and 45 degree grading of low-flow channels from side outlets to the center of the watercourse will also be maintained clear of all vegetation to minimize pounding and blockage of side outlet flows. A centerline watercourse low flow 12-foot wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor.

The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

300 OF EXOTIC VEGETATION (ARUNDO) WAS REMOVED BY HAND
FROM LOCATION.

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIVEL-ORDONEZ

Title: PWCL

Date: 9-26-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/9/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 75 South Fork Santa Clara River
(PD's 725, 916, 1041, & 1300)** **T.G.: 4640-F1 TO 450-G3**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation bank to bank from Lyons Avenue to Orchard Village Road.*

Mechanical grading and clearing of invasive vegetation from bank to bank will be performed from Orchard Village Road to the confluence with Newhall Creek.

Mechanical clearing of all vegetation will be done along the base of the concrete levee from the confluence with Newhall Creek to Magic Mountain Parkway. A 20-foot-wide strip will be maintained clear along the entire length of the levee and 45 degree grading of low-flow channels from side outlets to the center of the watercourse will also be maintained clear of all vegetation to minimize pounding and blockage of side outlet flows. A centerline watercourse low flow 12-foot wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor.

The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES
ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIVAS-ORDONEZ

Title: PWCL Date: 9-26-2012

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/17/12

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER / SOUTH FORK
 Reach Number 75

Date	Air	H2O	Noise	Comment	Initial
9-26-2022	✓	✓	✓	300 SF OF ARBUDO REMOVED	END
9-27-2022	✓	✓	✓	NONE	END
9-28-2022	✓	✓	✓	NONE	END
9-29-2022	✓	✓	✓	NONE	END
9-30-2022	✓	✓	✓	NONE	END
10-03-2022	✓	✓	✓	NONE	END
10-04-2022	✓	✓	✓	NONE	END
10-05-2022	✓	✓	✓	NONE	END
10-06-2022	✓	✓	✓	NONE	END
10-07-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910977

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 76 Pico Canyon (PD 813)** T.G.: 4550-F7 TO G7

Permit Requirements: The channel clearing work will involve bank-to-bank removal of all vegetation using mechanical equipment.

Description of Activity/Method of Implementation:

HAND AS WELL OF MECHANICAL CLEARING OF ALL VEGETATION 100%
WATER TRUCK WAS USED AT ALL TIMES TO MINIMIZED DUST AND STAYED
ON SITE AND USED AS NEEDED

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS TARPED DURING TRANSPORTATION OF VEGETATION & DEBRIS

Project start date: 9-28-2022

Project end date: 10-04-2022

Completed by: Name: EMILIO NIEVES ORDONEZ Title: PWCL Date: 9-28-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 9/28/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 150

Location/Channel Reach#: **Reach No. 76 Pico Canyon (PD 813)**

T.G.: **4550-F7 TO G7**

Permit Requirements: The channel clearing work will involve bank-to-bank removal of all vegetation using mechanical equipment.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

150 SF OF EXOTIC VEGETATION WAS REMOVED BY HAND.
ONLY ARUNDO WAS FOUND.

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIBES-ORDONEZ

Title: PWCL Date: 9-28-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 9/28/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 76 Pico Canyon (PD 813)** T.G.: 4550-F7 TO G7

Permit Requirements: The channel clearing work will involve bank-to-bank removal of all vegetation using mechanical equipment.

Description of Activity/Method of Implementation:

SOFT BOTTOM MOWING DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES / ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NICHES-ORDONEZ Title: PNCL Date: 9-28-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 9/28/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name PICO GYN CHANNEL

Reach Number 76

Date	Air	H2O	Noise	Comment	Initial
9-28-2012	✓	✓	✓	150 SF OF ARUNDO REMOVED -	END
9-29-2012	✓	✓	✓	NONE	END
9-30-2012	✓	✓	✓	NONE	END
10-03-2012	✓	✓	✓	NONE	END
10-04-2012	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910946

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 77 Newhall Creek Outlet** T.G.: 4550-H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.89 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF VEGETATION, WATER TRUCK
WAS SPRAYING WATER AS NEEDED AND REMAINED ON SITE.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS TAPPED DURING TRANSPORTATION OF VEGETATION.

Project start date: 10-07-2022

Project end date: _____

Completed by: Name: EMILIO NIEVES ORDONIZ Title: PWU Date: 10-07-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 50 SF.

Location/Channel Reach#: **Reach No. 77 Newhall Creek Outlet** T.G.: 4550-H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.89 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

50SF OF TOBACCO PLANT WAS HAND REMOVED FROM SITE.

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIVAS-CORDINE Title: PWCL Date: 10-07-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 77 Newhall Creek Outlet** T.G.: 4550-H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.89 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WORK WAS DONE IN COMPLIANCE WITH LOCAL NOISE ORDINANCES
ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NUNEZ-ORDONEZ

Title: PWCL Date: 10-03-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/7/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name NEW HALL CREEK CHANNEL
Reach Number 17

Date	Air	H2O	Noise	Comment	Initial
10-07-2022	✓	✓	✓	50 SF OF TOBACCO PLANT REMOVED	ENO

7910963

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No.78 Placerita Creek** T.G.: 4550 H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF VEGETATION, WATER TRUCK WAS USED AND SPRAYED WATER AS NEEDED AND REMAINED ON SITE.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-07-2022

Project end date: 10-07-2022

Completed by: Name: EMILIO NUNEZ ORDOZ Title: PWU Date: 10-07-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 30

Location/Channel Reach#: **Reach No.78 Placerita Creek** T.G.: **4550 H6**

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: ___ Mitigation measure has been implemented. No further action is required.
- ___ Mitigation measure is not fully implemented. Further action is required.
 (Please explain below.)
- ___ Mitigation measure is not in compliance. Further action is required.
 (Please explain below.)

Comments/Revisions:

30 SF OF ARUNDO REMOVED.

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIEVES-ORDONEZ

Title: PWCL Date: 10/07/2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/7/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No.78 Placerita Creek** T.G.: 4550 H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MOWING / ALL WORK WAS DONE DURING DAYLIGHT HOURS
IN COMPLIANCE WITH LOCAL NOISE ORDINANCES ALL EQUIPMENT AND VEHICLES
EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES-ORDAZ

Title: PWCL Date: 10-07-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/7/22

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program

Reach Name PLACERITA CREEK
 Reach Number 78

Date	Air	H2O	Noise	Comment	Initial
10-07-2022	✓	✓	✓	30 SF OF ARUNDO PERUUD	ENO

7911008

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 79 South Fork- Santa Clara River T.G.: 4550-G3**
(Valencia Blvd Bridge Stabilizer)

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK SPRAYED WATER PRIOR TO VEGETATION REMOVAL TO MINIMIZE DUST.
WATER TRUCK REMAINED ON SITE AND USED AS NEEDED

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

ALL TRUCKS TARPED DURING TRANSPORTATION OF DEBRI -

Project start date: 10-11-2022

Project end date: 10-12-2022

Completed by: Name: EMILIO NUNEZ Title: PWCI Date: 10-11-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 130

Location/Channel Reach#: **Reach No. 79 South Fork- Santa Clara River T.G.: 4550-G3**
(Valencia Blvd Bridge Stabilizer)

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

130 SF OF TOBACCO PLANTS REMOVED

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIGUES-ORTIZ Title: PWCL Date: 10-11-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 79 South Fork- Santa Clara River T.G.: 4550-G3
(Valencia Blvd Bridge Stabilizer)**

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE
ORDINANCES. ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST
DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES ORTIZ

Title: PWCL Date: 10-11-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/13/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SOUTH FORK

Reach Number 79

Date	Air	H2O	Noise	Comment	Initial
10-11-2022	✓	✓	✓	130 SF TOBACCO PLANT REMOVED	ENO
10-12-2022	✓	✓	✓	NONE	ENO

7911008

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 80 South Fork- Santa Clara River T.G.: 4550-F2
(PD's 1947 & 1946)**

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the toe of the concrete levee along the entire length.

Clearing shall not extend more than 20 feet beyond the toe of the levee. The vegetation (2.05 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF VEGETATION WITHIN 20' LIMIT
WATER TRUCK SPRAYED WATER AT ALL TIMES TO MINIMIZED DUST
AND REMAINED ON SITE AND USED AS NEEDED

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

ALL TRUCKS TAPPED DURING TRANSPORTATION OF VEGETATION.

Project start date: 10-11-2022

Project end date: 10-12-2022

Completed by: Name: EMILIO NIVAS ORTIZ Title: PWCL Date: 10-11-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 12.7

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 100

Location/Channel Reach#: **Reach No. 80 South Fork- Santa Clara River** T.G.: 4550-F2
(PD's 1947 & 1946)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the toe of the concrete levee along the entire length.

Clearing shall not extend more than 20 feet beyond the toe of the levee. The vegetation (2.05 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

100 SF OF TOBACCO PLANT REMOVED FROM CHANNEL

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIKESTOROV Title: PWU Date: 10-11-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/13/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 80 South Fork- Santa Clara River T.G.: 4550-F2
(PD's 1947 & 1946)**

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the toe of the concrete levee along the entire length.

Clearing shall not extend more than 20 feet beyond the toe of the levee. The vegetation (2.05 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED
WITH PROPER EXHAUST DEVICES

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES-ORDONEZ Title: PWCL Date: 10-11-2022
Approved by: Name: Jan Cabrera Title: FCCS Date: 10/13/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SOUTH FORK
Reach Number 80

Date	Air	H2O	Noise	Comment	Initial
10-11-2022	✓	✓	✓	100SF OF TOBACCO PLANT REMOVED.	ENO
10-12-2022	✓	✓	✓	NONE	ENO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910925

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 82 Santa Clara River
Main Channel (PD 2278)**

T.G.: 4550 - D1

Permit Requirements:

Channel clearing work will involve mechanically removing all vegetation within 20 feet from the toe of the concrete levee along the entire reach.

Future maintenance activities shall involve mechanical means and shall not extend more than 20 feet beyond the toe of the levee, impacts within this reach shall not exceed 0.40 acre.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND WORK OF REMOVAL OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK WAS USED TO MINIMIZED DUST AND USED AS NEEDED

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-28-2022

Project end date: 10/28/22

Completed by: Name: EMILIO NIEVES-ORDAZ Title: PWCL Date: 10-28-2022

Approved by: Name: Swan Cabrera Title: FCCS Date: 10/31/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 50

Location/Channel Reach#: **Reach No. 82 Santa Clara River
Main Channel (PD 2278)**

T.G.: 4550 - D1

Permit Requirements:

Channel clearing work will involve mechanically removing all vegetation within 20 feet from the toe of the concrete levee along the entire reach.

Future maintenance activities shall involve mechanical means and shall not extend more than 20 feet beyond the toe of the levee, impacts within this reach shall not exceed 0.40 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

50 SF OF TAMARISK REMOVED

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NILES-ORDAZ

Title: DWCL Date: 10-28-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/31/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 82 Santa Clara River
Main Channel (PD 2278)**

T.G.: 4550 - D1

Permit Requirements:

Channel clearing work will involve mechanically removing all vegetation within 20 feet from the toe of the concrete levee along the entire reach.

Future maintenance activities shall involve mechanical means and shall not extend more than 20 feet beyond the toe of the levee, impacts within this reach shall not exceed 0.40 acre.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIVAS-RODRIGUEZ

Title: PWU Date: 10/28/22

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/31/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SANTA CLARA RIVER
Reach Number 82

Date	Air	H2O	Noise	Comment	Initial
10/28/02	✓	✓	✓	50 SF OF TAMARISK REMOVED	END.

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910952

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 86 Violin Canyon M.C.O.** T.G.: 4369 - J7

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.41 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION, WATER TRUCK SPRAYED WATER PRIOR REMOVAL OF VEGETATION TO MINIMIZED DUST AND USED AS NEEDED.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

ALL TRUCKS TARPED DURING TRANSPORTATION OF VEGETATION FROM SITE.

Project start date: 10-19-2022

Project end date: 10-21-2022

Completed by: Name: EMILIO NIKES-ORDONEZ Title: PWCL Date: 10-19-2022

Approved by: Name: Juan Cabreva Title: FCCS Date: 10/24/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 77.79

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 80

Location/Channel Reach#: **Reach No. 86 Violin Canyon M.C.O.**

T.G.: 4369 - J7

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.41 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

80 SF OF TAMARISK REMOVED

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ-ORTIZ

Title: PWCL Date: 10-19-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/24/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 86 Violin Canyon M.C.O.** T.G.: 4369 - J7

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.41 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NIEVES ORDANIZ

Title: PWCL

Date: 10-19-2022

Approved by: Name: Juan Cabrera

Title: FCCS

Date: 10/24/22

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program

Reach Name VIOLIN CYN CHANNEL
 Reach Number 86

Date	Air	H2O	Noise	Comment	Initial
10-19-2022	✓	✓	✓	80 SF TAMARISK REMOVED.	ENJO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

7910957

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 87 Castaic-The Old Road Drainage T.G.: 4459-H5
(CDR 525.021D) Outlet**

Permit Requirements:

The channel clearing work will involve hand cutting and clearing a 20-foot path from the riprap outlet to the main watercourse, Castaic Creek.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK WAS USED TO MINIMIZE DUST AND REMAINED ON SITE AND
USED AS NEEDED

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS TAPPED DURING TRANSPORTATION OF VEGETATION

Project start date: 10-20-2022

Project end date: 10-20-2022

Completed by: Name: EMILIO NIVAS-ORDAZ Title: PWCL Date: 10-20-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/21/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 5.7

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 80

Location/Channel Reach#: **Reach No. 87 Castaic-The Old Road Drainage T.G.: 4459-H5
(CDR 525.021D) Outlet**

Permit Requirements:

The channel clearing work will involve hand cutting and clearing a 20-foot path from the riprap outlet to the main watercourse, Castaic Creek.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

80 SF OF TAMARISK REMOVED

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ-ORDANEZ

Title: PWCL

Date: 10-20-2022

Approved by: Name: Juan Cabrera

Title: FCCS

Date: 10/21/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 87 Castaic-The Old Road Drainage T.G.: 4459-H5
(CDR 525.021D) Outlet**

Permit Requirements:

The channel clearing work will involve hand cutting and clearing a 20-foot path from the riprap outlet to the main watercourse, Castaic Creek.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES. ALL VEHICLES AND EQUIPMENT EQUIPPED WITH PROPER EXHAUST DEVICES

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES-ORDONEZ

Title: PWCL Date: 10-20-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/21/22

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program

Reach Name CDR 525.021

Reach Number 87

Date	Air	H2O	Noise	Comment	Initial
10-20-2020	✓	✓	✓	20 SF OF TAMARISK REMOVED	ENO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7911050

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 88 Hasley Canyon Upper**
(PD T1496)

T.G.: 4459 - C3

Permit Requirements: The channel clearing work will involve mechanical equipment to remove all vegetation from bank to bank from Sharp Road to 755 feet upstream. From 330 feet downstream of Sharp Road to Sharp Road, hand clearing will be done.

Impacts shall not exceed 0.42 acre (1085 linear feet by 17 feet wide).

Description of Activity/Method of Implementation:

Hand clearing of all vegetation within 20' limit.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

All trucks tarped during transportation.

Project start date: 10/20/2022

Project end date: 10/24/2022

Completed by: Name: Anthony Fusco Title: PWCL Date: 10/20/2022

Approved by: Name: Swan Cabrera Title: FCCS Date: 10/25/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 20

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 50

Location/Channel Reach#: **Reach No. 88 Hasley Canyon Upper** T.G.: **4459 - C3**
(PD T1496)

Permit Requirements: The channel clearing work will involve mechanical equipment to remove all vegetation from bank to bank from Sharp Road to 755 feet upstream. From 330 feet downstream of Sharp Road to Sharp Road, hand clearing will be done.

Impacts shall not exceed 0.42 acre (1085 linear feet by 17 feet wide).

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Anthony Fusco Title: PWCL Date: 10/20/22
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/25/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 88 Hasley Canyon Upper
(PD T1496)**

T.G.: 4459 - C3

Permit Requirements: The channel clearing work will involve mechanical equipment to remove all vegetation from bank to bank from Sharp Road to 755 feet upstream. From 330 feet downstream of Sharp Road to Sharp Road, hand clearing will be done.

Impacts shall not exceed 0.42 acre (1085 linear feet by 17 feet wide).

Description of Activity/Method of Implementation:

Work done during daylight hours in compliance
with local noise ordinances, all equipment and
vehicles equipped with proper exhaust devices.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: Anthony Fusco

Title: PWCL Date: 10/30/2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/25/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name HASLEY CANYON CHANNEL (PD 1496)
Reach Number 88

Date	Air	H2O	Noise	Comment	Initial
10/20/22	✓	✓	✓	NONE	AF
10/21/22	✓	✓	✓	50 sf of tobacco plant removed	AF
10/24/22	✓	✓	✓	NONE	AF

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7911050

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 89 Hasley Canyon South Fork T.G.: 4459-C3**
(PD T1496)

Permit Requirements:

The channel clearing work will involve hand labor clearing of alluvial sage scrub.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

All trucks tarped during transportation

Project start date: 10/24/2022

Project end date: 10/24/2022

Completed by: Name: Anthony Fusco Title: PWCL Date: 10/24/2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/25/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 89 Hasley Canyon South Fork T.G.: 4459-C3
(PD T1496)**

Permit Requirements:

The channel clearing work will involve hand labor clearing of alluvial sage scrub.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Anthony Fusco

Title: PWCL Date: 10/24/2022

Approved by: Name: Suan Cabrera

Title: FCCS Date: 10/25/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 89 Hasley Canyon South Fork T.G.: 4459-C3
(PD T1496)**

Permit Requirements:

The channel clearing work will involve hand labor clearing of alluvial sage scrub.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Work done during daylight hours in compliance
with local noise ordinances, all equipment and vehicles
equipped with proper exhaust devices.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: Anthony Fusco

Title: PWCL Date: 10/24/2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/25/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name Hasley Canyon Channel (PD 1496)
 Reach Number 89

Date	Air	H2O	Noise	Comment	Initial
10/24/22	✓	✓	✓	NONE	AF

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7911056

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 90 Hasley Canyon Lower
(North Fork RD T1496)**

T.G.: 4459-C3

Permit Requirements: *The channel clearing work will involve hand clearing and mechanized removal of vegetation. Portions of the channel bottom will be denuded of vegetation while leaving the earthen bank vegetated, clusters of mature growth in the channel bottom will remain to the level it was left in November 1997.*

The vegetation (0.19 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Hand clearing of all vegetation within 20' limit.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

All trucks tarped during transportation.

Project start date: 10/24/2022

Project end date: 10/24/2022

Completed by: Name: Anthony Fusco Title: PWCL Date: 10/24/2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/25/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 12

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 20

Location/Channel Reach#: **Reach No. 90 Hasley Canyon Lower
(North Fork RD T1496)**

T.G.: **4459-C3**

Permit Requirements: *The channel clearing work will involve hand clearing and mechanized removal of vegetation. Portions of the channel bottom will be denuded of vegetation while leaving the earthen bank vegetated, clusters of mature growth in the channel bottom will remain to the level it was left in November 1997.*

The vegetation (0.19 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Anthony Fusco

Title: PWCL Date: 10/24/2022

Approved by: Name: Suan Gabriela

Title: FCCS Date: 10/25/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 90 Hasley Canyon Lower
(North Fork RD T1496)**

T.G.: 4459-C3

Permit Requirements: *The channel clearing work will involve hand clearing and mechanized removal of vegetation. Portions of the channel bottom will be denuded of vegetation while leaving the earthen bank vegetated, clusters of mature growth in the channel bottom will remain to the level it was left in November 1997.*

The vegetation (0.19 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Work done during daylight hours in compliance with
local noise ordinances, all equipment and vehicles
equipped with proper exhaust devices.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: Anthony Fusco

Title: PWCL Date: 10/24/2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/25/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name Hasley Canyon Channel (PD 1496)

Reach Number 90

Date	Air	H2O	Noise	Comment	Initial
10/24/22	✓	✓	✓	20 sf of tobacco plant removed	AF

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910852

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 91 San Martinez Chiquito** T.G.: **4459-A6 TO B6**
U/S of Keningston Rd

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

HAND CLEARING OF ALL VEGETATION BETWEEN PIPE & WIRE, NO WATER TRUCK
NEEDED

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-25-2022

Project end date: 10-25-2022

Completed by: Name: AMILION NILES-CRANE Title: PWA Date: 10-25-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/26/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 50

Location/Channel Reach#: **Reach No. 91 San Martinez Chiquito U/S of Kennington Rd** T.G.: 4459-A6 TO B6

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- ESC1 Scheduling
- ESC21 Dust Control
- ESC31 Temporary Drains and Swales
- ESC51 Straw Bale Barriers
- ESC2 Preservation of Existing Vegetation
- ESC22 Temporary Stream Crossing
- ESC50 Silt Fence
- ESC52 Sand Bag Barriers

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

50 SF OF TOBACCO PLANT REMOVED

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIBES-ORDAZ

Title: Pwca Date: 10/25/22

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/26/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 91 San Martinez Chiquito T.G.: 4459-A6 TO B6**
U/S of Kenington Rd

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO N HESCORNEZ

Title: PWC Date: 10-25-2012

Approved by: Name: San Cabrera

Title: FCCS Date: 10/26/12

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SAN MARTIN / CHICOITO CAN CHANNEL
Reach Number 91

Date	Air	H2O	Noise	Comment	Initial
10/25/2012	✓	✓	✓	50 SF OF TOBACCO PLANT REMOVED	BAO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

7910852

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 92 San Martinez Chiquito T.G.: 4459-A6 TO B6**
Unnamed tributary U/S of Keningston Rd

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

HAND WORK ONLY OF REMOVAL OF ALL VEGETATION BETWEEN PIPE & WIRE
NO WATER TRUCK NEEDED

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-25-2022

Project end date: 10-25-2022

Completed by: Name: EMILIO NUNEZ CRUZ Title: PWCL Date: 10-25-2022

Approved by: Name: Swan Cabrera Title: FCCS Date: 10/26/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 92 San Martinez Chiquito** T.G.: **4459-A6 TO B6**
Unnamed tributary U/S of Kennington Rd

Permit Requirements:
The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:
Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- ESC1 Scheduling ESC2 Preservation of Existing Vegetation
- ESC21 Dust Control ESC22 Temporary Stream Crossing
- ESC31 Temporary Drains and Swales ESC50 Silt Fence
- ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:
NONE

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ-ORTEGA Title: PWCL Date: 10-25-2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/26/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 92 San Martinez Chiquito T.G.: 4459-A6 TO B6
Unnamed tributary U/S of Kennington Rd**

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE
ORDINANCES -

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIONILUIS ORDONEZ

Title: DWR Date: 10-25-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/26/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SAN MARTIN / CHICOITO CAN CHANNEL
Reach Number 92

Date	Air	H2O	Noise	Comment	Initial
1025-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910852

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 93 San Martinez Chiquito
Keningston Rd to Val Verde Park**

T.G.: 4459 - B6

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

HAND REMOVAL OF ALL VEGETATION BETWEEN PIPE & WIRE, NO WATER
TRUCK WAS NEEDED

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-26-2022

Project end date: 10-26-2022

Completed by: Name: EMILIO NUNEZ-ORDONEZ Title: PWCL Date: 10-26-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/28/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 100

Location/Channel Reach#: **Reach No. 93 San Martinez Chiquito
Kenington Rd to Val Verde Park**

T.G.: 4459 - B6

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

100 SF OF TAMARISK REMOVED

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: AMILIO NIVAS ORDOZ Title: PWU Date: 10/26/2022
Approved by: Name: Juan Cabrera Title: FCCS Date: 10/28/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 93 San Martinez Chiquito
Kenningston Rd to Val Verde Park**

T.G.: 4459 - B6

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCES

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NUNEZ ORDOÑEZ

Title: PWCL Date: 10/25/22

Approved by: Name: Suan Cabrera

Title: FCCS Date: 10/28/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name SAN MARTINEZ / CHICUITO CANAL
 Reach Number 93

Date	Air	H2O	Noise	Comment	Initial
10-26-2022	✓	✓	✓	100 SF OF TAMARISK REMOVED	ENO

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910852

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 94 San Martinez Chiquito T.G.: 4459 - C6 TO D7
Val Verde Park to D/S of Madison St**

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

HAND REMOVAL OF ALL VEGETATION BETWEEN PIPE & WIRE
WATER TRUCK USED PRIOR AND DURING TO MINIMIZED DUST

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-24-2022

Project end date: 10-26-2022

Completed by: Name: EMILIO NIEVES-ORDAZ Title: PWCL Date: 10-24-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 10/28/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 130

Location/Channel Reach#: **Reach No. 94 San Martinez Chiquito T.G.: 4459 - C6 TO D7
Val Verde Park to D/S of Madison St**

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

130 SF OF TOBACCO PLANTS REMOVED.

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIEVES-ORDONEZ

Title: PWCL

Date: 10-24-2022

Approved by: Name: Juan Cabrena

Title: FCCS

Date: 10/28/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 94 San Martinez Chiquito T.G.: 4459 - C6 TO D7
Val Verde Park to D/S of Madison St**

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NILES-ORDONEZ

Title: PWCL Date: 10-24-2022

Approved by: Name: Suan Cabrera

Title: FCCS Date: 10/28/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name SAN MARTINE / CIRCUITO CNV CHANNEL
Reach Number 94

Date	Air	H2O	Noise	Comment	Initial
10-24-2022	✓	✓	✓	130 SF OF TOBACCO PLANT REMOVED	END

7912454

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 95 Project No. 1224**

T.G.: 4087 - H5

Permit Requirements:

The channel clearing work will involve removal of all vegetation within the pipe and wire channel using mechanical equipment, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND WORK OF ALL VEGETATION BETWEEN PIPE & WIRE.
WATER TRUCK USED TO MINIMIZE DUST AND USED AS NEEDED

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

ROCKS TAPPED DURING TRANSPORTATION OF VEGETATION, NO RUNNING WATER

Project start date: 11-01-2022

Project end date: 11-07-2022

Completed by: Name: EMILIO VILAS RODRIGUEZ Title: PWCL Date: 11-01-2022

Approved by: Name: Juan Cabrera Title: FCCS Date: 11/8/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 100

Location/Channel Reach#: Reach No. 95 Project No. 1224 T.G.: 4087 - H5

Permit Requirements:

The channel clearing work will involve removal of all vegetation within the pipe and wire channel using mechanical equipment, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

100 SF TAMARISK REMOVED

Biologist on site: No Yes

Date: 11-07-2022

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ-SORIANO

Title: PWCL Date: 11-01-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 11/9/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 95 Project No. 1224

T.G.: 4087 - H5

Permit Requirements:

The channel clearing work will involve removal of all vegetation within the pipe and wire channel using mechanical equipment, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

WORK WAS DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NONE, NO RUNNING WATER

Completed by: Name: EMILIO NIKLES ORDOZ

Title: PWCL Date: 11/01/2022

Approved by: Name: Ivan Cabrera

Title: FCCS Date: 11/8/22

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name PROJECT 1224

Reach Number 915

Date	Air	H2O	Noise	Comment	Initial
11-01-2022	✓	✓	✓	100 SF TIMBERISK REMOVED	END
11-02-2022	✓	✓	✓	NONE	END
11-03-2022	✓	✓	✓	" "	END
11-04-2022	✓	✓	✓	" "	END
11-07-2022	✓	✓	✓	" "	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 96 PD 1591 Calabasas**

T.G.: 599-G5

Permit Requirements:

The channel clearing will involve removing all vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive. Clearing work will be done by hand labor and only within the dedicated right of way.

Description of Activity/Method of Implementation:

WEED EATERS, HEDGE TRIMMERS AND POLE SAWS WERE USED AND FITTED WITH APPROVED EXHAUST. ALL VEGETATION HAND LOADED ONTO TRUCKS, KEEPING DUST TO A MINIMUM.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 11/1/22

Project end date: 11/15/22

Completed by: Name: RYAN MURILLO Title: CREW LEADER Date: 11/15/22

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 11-17-22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 96 PD 1591 Calabasas** T.G.: 599-G5

Permit Requirements:

The channel clearing will involve removing all vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive. Clearing work will be done by hand labor and only within the dedicated right of way.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- _____ Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Muirillo Title: CREW LEADER Date: 11/15/22

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 11.17.22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 96 PD 1591 Calabasas**

T.G.: 599-G5

Permit Requirements:

The channel clearing will involve removing all vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive. Clearing work will be done by hand labor and only within the dedicated right of way.

Description of Activity/Method of Implementation:

ALL POWER TOOLS USED SUCH AS WEED EATERS, HEDGE TRIMMERS AND POLE SAW ARE FITTED WITH MUFFLERS.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL WORK STARTED AFTER 8:00AM SO AS NOT TO DISTURB NEIGHBORS.

Completed by: Name: Ryan Muzillo

Title: CREW LEADER Date: 11/15/22

Approved by: Name: Luis Montes De Oca

Title: FCCS Date: 11/17/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name DRY CYN CHANNEL (CANALES) INLET - PD 1591
 Reach Number # 96

Date	Air	H2O	Noise	Comment	Initial
11/1/22	✓	✓	✓	STRAW BALE PLACED AT END OF REACH	RM
11/2/22	✓	✓	✓		RM
11/3/22	✓	✓	✓		RM
11/4/22	✓	✓	✓		RM
11/5/22	✓	✓	✓		RM
11/7/22	✓	✓	✓		RM
11/10/22	✓	✓	✓		RM
11/15/22	✓	✓	✓	COMPLETED AND REMOVED STRAW BALE	RM

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

7910679

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 97 PD 1982**

T.G.: 4459- H5 TO H6

Permit Requirements: *The channel clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 20 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse.*

The Operator shall leave a total of 1.17 acre of vegetation. The vegetation (1.17 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND REMOVAL OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK SPRAYED WATER PRIOR REMOVAL OF VEGETATION AND
WAS USED AS NEEDED.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Project start date: 10-03-2022

Project end date: 10-05-2022

Completed by: Name: EMILIONKES-ORDANIZ Title: PWCI Date: 10-03-2022

Approved by: Name: Ivan Cabrera Title: FCCS Date: 10/21/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 100

Location/Channel Reach#: **Reach No. 97 PD 1982**

T.G.: 4459- H5 TO H6

Permit Requirements: *The channel clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 20 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse.*

The Operator shall leave a total of 1.17 acre of vegetation. The vegetation (1.17 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

100 SF OF TOBACCO PLANT REMOVED

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ-ORDONEZ

Title: PWCI Date: 10-03-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/21/22

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 97 PD 1982**

T.G.: 4459- H5 TO H6

Permit Requirements: *The channel clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 20 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse.*

The Operator shall leave a total of 1.17 acre of vegetation. The vegetation (1.17 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: EMILIO NUNEZ-ORDONEZ

Title: PWU Date: 10-03-2022

Approved by: Name: Juan Cabrera

Title: FCCS Date: 10/21/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name CASTAIC CREEK
 Reach Number 97

Date	Air	H2O	Noise	Comment	Initial
10-03-2022	✓	✓	✓	100 SF OF TAMARISK REMOVED	END
10-04-2022	✓	✓	✓	NONE	END
10-05-2022	✓	✓	✓	NONE	END

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 98 Walnut Creek - Channel Inlet** **T.G.: 599-E6**

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

Crews cut the vegetation with hand tools and collected the cuttings for proper disposal.

Disposition: No mitigation measure required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Project start date: 10-14-2022

Project end date: 10-14-2022

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 10

Mitigation Measure #: 2 Exotic Veg. Removed (Square Feet) 10

Location/Channel Reach#: **Reach No. 98 Walnut Creek - Channel Inlet** T.G.: **599-E6**

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is flowing.

Description of Activity/Method of Implementation:

Water was present at the site and water quality sampling was conducted before, during, and after our work at the site. The clearing takes place at the transition from a natural stream to a hard bottom stream. Water ponds just upstream of the concrete lined channel headwall. BMPs were installed just downstream to catch any cuttings or debris that may wash down as a result of our efforts. All clearing work in this reach was carried out by hand. During the work, water quality was monitored upstream, downstream, and within the work area.

Disposition: X Water monitoring was performed.

 Water monitoring was not fully implemented. Further action is required.
(Please explain below.)

 Water monitoring was not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Water samples were taken before, during, and after completed work.

Biologist on site: **No** **Yes**

Date: _____

Biologist Comments/Instructions:

None

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 98 Walnut Creek - Channel Inlet** **T.G.: 599-E6**

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise efforts was undertaken; however, noise was not an issue on this clearing project because everything was removed by hand crews and no equipment was utilized. During our operation we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

Disposition: X No mitigation measure required.

 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 5-10-2023

Approved by: Name:

Title: Principal Engr. Date: 5-10-2023

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No. 99 Kagel Canyon**

T.G.: **482- J5 TO J7**

Permit Requirements:

Hand clearing work will be performed to keep all vegetation clear in this reach.

Description of Activity/Method of Implementation:

DEBRUSHING / CUTTING VEGETATION, PRUNING AND CUTTING BACK BUSHES,
TOOLS USED, WOOD WHIPS, LOPPERS, HEDGERS AND OTHER HAND
TOOLS

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NO DUST WAS PICKED UP DURING CUTTING OF VEGETATION

Project start date: SEPT 15, 2022

Project end date: SEPT 28, 2022

Completed by: Name: G. DEIGADILLO Title: FCCS Date: 09.22.22

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) NA

Location/Channel Reach#: **Reach No. 99 Kagel Canyon** T.G.: 482- J5 TO J7

Permit Requirements:

Hand clearing work will be performed to keep all vegetation clear in this reach.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input checked="" type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- _____ Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

All CUT VEGEATION WAS REMOVED AND Hauled AWAY.

STRAW BALE / BMP'S INSTALLED IN VARIOUS LOCATIONS

Biologist on site: No Yes Date: NA

Biologist Comments/Instructions: N/A

Completed by: Name: C. Delgado Title: FCCS Date: 9/22/22

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 99 Kagel Canyon**

T.G.: 482- J5 TO J7

Permit Requirements:

Hand clearing work will be performed to keep all vegetation clear in this reach.

Description of Activity/Method of Implementation:

CREW DID NOT START WORK UNTIL AFTER 3pm

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

POWER TOOLS WERE ONLY USED WHEN ABSOLUTELY NECESSARY

Completed by: Name: G. Delgadillo

Title: FCCS Date: 9.22.22

Approved by: Name: _____

Title: _____ Date: _____

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form**

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

Location/Channel Reach #: **Reach No.100 Dry Canyon Calabasas**

T.G.: 559-G4

Permit Requirements:

The channel clearing work will involve hand clearing all vegetation at the channel inlet. Bank vegetation will be left in place.

Description of Activity/Method of Implementation:

REMOVED ALL VEGETATION WITH HAND AND POWER TOOLS
THAT ARE FITTED WITH PROPER AIR FILTER EXHAUSTS.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)

Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Project start date: 1-19-23

Project end date: 1-19-23

Completed by: Name: ANTHONY MIRANO Title: PWCL Date: 1-20-23

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) N/A

Location/Channel Reach #: **Reach No.100 Dry Canyon Calabasas** T.G.: **559-G4**

Permit Requirements:

The channel clearing work will involve hand clearing all vegetation at the channel inlet. Bank vegetation will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

- | | |
|---|---|
| <input type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

STRAW WADDLE BOOM HAS BEEN PLACED AT
THE END OF REACH.

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: ANTHONY MIRANO Title: PWCL Date: 1-20-23

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach #: **Reach No.100 Dry Canyon Calabasas**

T.G.: 559-G4

Permit Requirements:

The channel clearing work will involve hand clearing all vegetation at the channel inlet. Bank vegetation will be left in place.

Description of Activity/Method of Implementation:

HAND AND POWER TOOLS USED ARE FITTED WITH APPROVED
NOISE SUPPRESSORS.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

Completed by: Name: ANTHONY MIRANO

Title: PWCL Date: 1-20-23

Approved by: Name: _____

Title: _____ Date: _____

7912473

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 108 – Pico Canyon Channel – PD 2528
T.G.: 4640-C1 to C7**

Permit Requirements:

The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION 100%, WATER TRUCK
SPRAYED WATER PRIOR TO VEGETATION REMOVAL TO MINIMIZE DUST - WATER TRUCK
REMAINED ON SITE AND SPRAYED AS NEEDED.

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

ALL TRUCKS WERE TAPPED DURING TRANSPORTATION OF VEGETATION REMOVED.

Project start date: 10-06-2022

Project end date: 12-9-22

Completed by: Name: EMILIO NUNEZ-ORDONEZ Title: PWCL Date: 10-06-2022

Approved by: Name: JOSE MORILLO Title: F.C.C.S. Date: 10/06/2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: **2** Exotic Veg. Removed (Sq. Ft.) 200

Location/Channel Reach #: **Reach No. 108 – Pico Canyon Channel – PD 2528**
T.G.: 4640-C1 to C7

Permit Requirements:

The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practices were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

- Disposition: Mitigation measure has been implemented. No further action is required.
- _____ Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

MILD WIND CONDITIONS / 200 SF OF TAMARISK REMOVED BY HAND

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIEVES-ORDOÑEZ / PWCL Title: PWCL Date: 10-06-2022
Approved by: Name: Jose Morillo Title: F.C.C.S. Date: 10/6/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: **3**

Location/Channel Reach #: **Reach No. 108 – Pico Canyon Channel – PD 2528
T.G.: 4640-C1 to C7**

Permit Requirements:

The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.

Description of Activity/Method of Implementation:

CHANNEL MOWING, WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE
WITH LOCAL NOISE ORDINANCES, ALL EQUIPMENT AND VEHICLES
EQUIPPED WITH PROPER EXHAUST DEVICES.

- Disposition: Mitigation measure has been implemented. No further action is required.
 Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
 Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

NONE

Completed by: Name: AMILIO NIMES-ORDONEZ

Title: PWCL Date: 10-06-2022

Approved by: Name: Jose Morillo

Title: PCLS Date: 10/6/2022

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name PICO CYN CHANNEL
 Reach Number 108

Date	Air	H2O	Noise	Comment	Initial
10-06-2022	✓	✓	✓	200 SF OF TAMARISK REMOVED	ENO
10-7-2022	✓	✓	✓	200 yds vegetation mowed	En
10-11-2022	✓	✓	✓	200 yds vegetation mowed	En
10-12-2022	✓	✓	✓	200 yds vegetation mowed	En
10-13-2022	✓	✓	✓	200 yds vegetation mowed	En
10-14-2022	✓	✓	✓	200 yds vegetation mowed	En
10-17-2022	✓	✓	✓	200 yds vegetation mowed	En
10-18-22	✓	✓	✓	200 yds vegetation mowed	En
10-19-22	✓	✓	✓	200 yds vegetation mowed	En
10-20-22	✓	✓	✓	200 yds vegetation mowed	En
10-21-22	✓	✓	✓	200 yds vegetation mowed	En
10-24-22	✓	✓	✓	27-10 yard truck loads removed.	En

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name Pico cyn channel
Reach Number 108

Date	Air	H2O	Noise	Comment	Initial
10-25-22	✓	✓	✓	28-10 yard truck loads removed.	<i>[Signature]</i>
10-26-22	✓	✓	✓	30-10 yard truck loads removed	<i>[Signature]</i>
10-27-22	✓	✓	✓	30-10 yard truck loads removed	<i>[Signature]</i>
10-28-22	✓	✓	✓	30-10 yard truck loads removed	T.M.
10-31-22	✓	✓	✓	30-10 yard truck loads removed	T.M.
11-1-22	✓	✓	✓	40-10 yard truck loads removed	<i>[Signature]</i>
11-2-22	✓	✓	✓	50-10 yard truck loads removed.	<i>[Signature]</i>
11-3-22	✓	✓	✓	50-10 yard truck loads removed	<i>[Signature]</i>
11-4-22	✓	✓	✓		<i>[Signature]</i>
11-7-22	✓	✓	✓		<i>[Signature]</i>
11-10-22	✓	✓	✓		<i>[Signature]</i>
11-14-22	✓	✓	✓	44-10 yrd truck loads removed	<i>[Signature]</i>

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program

Reach Name Pico Canyon channel

Reach Number 108

Date	Air	H2O	Noise	Comment	Initial
11-15-22	✓	✓	✓	40-10 yrd truck loads removed	<i>[Signature]</i>
11-16-22	✓	✓	✓	42-10 yrd truck loads removed	<i>[Signature]</i>
11-17-22	✓	✓	✓	42-10 yrd truck loads removed	<i>[Signature]</i>
11-18-22	✓	✓	✓	40-10 yrd truck loads removed	<i>[Signature]</i>
11-21-22	✓	✓	✓	5-10 yrd truck loads removed	<i>[Signature]</i>
11-22-22	✓	✓	✓	2-10 yrd truck loads removed	<i>[Signature]</i>
11-23-22	✓	✓	✓		
11-24-22	✓	✓	✓		
11-28-22	✓	✓	✓		
11-29-22	✓	✓	✓		
11-30-22	✓	✓	✓		
12-1-22	✓	✓	✓		

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program

Reach Name Pico Canyon Channel

Reach Number 108

Date	Air	H2O	Noise	Comment	Initial
12-2-22	✓	✓	✓		[Signature]
12-5-22	✓	✓	✓		[Signature]
12-6-22	✓	✓	✓		[Signature]
12-7-22	✓	✓	✓		[Signature]
12-8-22	✓	✓	✓		[Signature]
12-9-22	✓	✓	✓		[Signature]

LOS ANGELES COUNTY SOFT BOTTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 112 (Ballona Creek-Upper)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

The maintenance plan for vegetation removal includes the usage of hand tools and mechanical equipment, and associated repair of riprap at locations designated for vegetation removal. Annual vegetation removal will remove invasive and exotic vegetation. California bulrush marsh is allowed to be mowed down to six inches above the height of the grouted riprap. Any overgrown vegetation affecting the original capacity of the channel surface area will be maintained by pulling the roots outside the area with a long reach excavator. There will be no removal of root mass from existing 0.66 acres of California bulrush marsh in the upper section. No herbicide will be used. A boom with a silt curtain will be temporarily installed to prevent sediment from entering the water column.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted at Ballona Creek. Bulrush was mowed every 15 feet (5 feet wide) to allow for midge pellet application this year. All non-native vegetation was removed and hauled away using hand tools. Floating debris was collected by hand and disposed of properly. Minimal amount of dust was generated. Water trucks were used for dust suppression when appropriate.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 12/13/22

Project End Date: 01/06/23

Completed by:

Name:	
Title:	Construction Superintendent
Date:	5-11-23

Approved by:

Name:	
Title:	Sr. Civil Engineer
Date:	5/16/2023

JGC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 112 (Ballona Creek-Upper)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	38

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Proper vegetation removal methods were conducted at Ballona Creek. Bulrush was mowed every 15 feet (5 feet wide) to allow for midge pellet application this year. All non-native vegetation was removed and hauled away using hand tools. A silt curtain was installed, and floating debris was collected and disposed of properly. All equipment was cleaned before leaving the site. BMP's including a floating boom with silt curtain were implemented. The following Best Management Practice were also deemed to be applicable and implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Work was done avoiding water. Water Quality Sampling results provided in Annual Report.

Completed by:

Name:	
Title:	Construction Superintendent
Date:	5-11-23

Approved by:

Name:	
Title:	Sr. Civil Engineer
Date:	5/16/2023

✓

**LOS ANGELES COUNTY SOFT BOTTTOM CHANNEL MAINTENANCE
2022-2023 MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Location/Channel Reach	Reach No. 112 (Ballona Creek-Upper)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted at Ballona Creek. Bulrush was mowed every 15 feet (5 feet wide) to allow for midge pellet application this year. All non-native vegetation was removed and hauled away using hand tools. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>[Signature]</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>5-11-23</i>

Approved by:

Name:	<i>[Signature] Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JQC

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Ballona Creek
 Reach Number 112

Date	Air	H2O	Noise	Comment	Initial
12/13/2022	GOOD	GOOD	LOW	BMP'S are in place contractor cutting S/B of channel. Water sample was taken today and no recommendations were made.	R.B.
12/14/2022	GOOD	GOOD	LOW	Contractor continuing D/S of Inglewood, BMP'S are in place and sampling was performed this morning.	R.B.
12/16/2022	GOOD	GOOD	LOW	Contractor moving closer to 90fwy.	R.B.
12/19/2022	GOOD	GOOD	LOW	Contractor is continuing cutting on S/B	R.B.
12/20/2022	GOOD	GOOD	LOW	Boom has been moved , Water sampling was performed .	R.B.
12/21/2022	GOOD	GOOD	LOW		R.b.
12/27/2022	GOOD	GOOD	LOW	Contractor starting N/B and working D/S. Water sampling was performed today	R.B.
12/29/2022	GOOD	GOOD	LOW	No changes to report , Sampling was performed.	R.B.
12/30/2022	GOOD	GOOD	LOW	Boom was moved D/S, Sampling was performed	R.B.
1/03/20223	GOOD	GOOD	LOW	Sampling was taken	R.B.
1/06/2022	GOOD	GOOD	LOW	Contractor is at end of reach	R.B.

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

The annual maintenance activities (from PCH to Seaside St) shall include the mechanical removal of accumulated debris, mowing of vegetation growing on the banks and stream bed, and in-kind structural repair to restore facility to as-built condition. Weeds and grasses may be controlled by mowing or hand labor. No herbicide will be used and decontamination of all tools and equipment prior to entering and exiting the Reach is required.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along the Los Angeles River. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. Generation of dust was kept at a minimum during vegetation removal. Water trucks were used for dust suppression when appropriate.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 11/02/22

Project End Date: 11/14/22

Completed by:

Name:	<i>Angus M. ...</i>
Title:	<i>CS</i>
Date:	<i>5/11/23</i>

Approved by:

Name:	<i>Al Eden Berhean</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	77

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted "before, during and after" during all clearing activity. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. All equipment was washed before leaving the site. The following Best Management Practices were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No

Date on Site: _____

Comments/Revisions:

Work was done in the channel avoiding water. Water Quality Sampling results provided in Annual Report.

Completed by:

Approved by:

Name:	<i>Byron M. Jones</i>
Title:	<i>CS</i>
Date:	<i>5-11-23</i>

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JSC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along the Los Angeles River. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>Henry A. Smith</i>
Title:	<i>C.S.</i>
Date:	<i>5/11/23</i>

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JKL

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 115 (San Gabriel River)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Maintenance activity includes a one-time woody vegetation removal with hand tools, mechanical equipment, and repair of displaced soil and rip rap along the levee. The annual maintenance activities shall include removal of accumulated debris, vegetation, woody plants by hand tools and/or mechanical equipment. A silt curtain containing a floating boom with a skirt below the water level will be installed to prevent sediment from entering the water column. Floating debris shall be collected and disposed of properly. To avoid loss of Bats maintenance activity shall be conducted between October 1 and February 28. A turtle mitigation plan shall be approved prior to annual maintenance activity can begin.

Description of Activity/Method of Implementation:

No work was performed due to late issuance of Coastal Commission Permit.

Disposition:

<input type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Project Start Date: _____

Project End Date: _____

Completed by:

Name:	<i>[Signature]</i>
Title:	Instruction Superintendent
Date:	05/11/2023

Approved by: JSC

Name:	<i>[Signature]</i> Edna Berhan
Title:	Sr. Civil Engineer
Date:	5/16/2023

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 115 (San Gabriel River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	0

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

No work was performed due to late issuance of Coastal Commission Permit.

Disposition:

	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: _____

Date on Site: _____

Comments/Revisions:

Completed by:

Name:	<i>[Signature]</i>
Title:	Construction Superintendent
Date:	05/11/2023

Approved by:

Name:	<i>[Signature]</i> Eden Berhan
Title:	Sr. Civil Engineer
Date:	5/16/2023

J&U

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 115 (San Gabriel River)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

No work was performed due to late issuance of Coastal Commission Permit.

Disposition:

<input type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>[Signature]</i>
Title:	Construction Superintendent
Date:	05/11/2023

Approved by:

Name:	<i>[Signature]</i> Eden Berhan	<i>JAC</i>
Title:	Sr. Civil Engineer	
Date:	5/16/2023	

**LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE
2022-2023 MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Maintenance activity for these channels include vegetation removal by hand using hand tools such as weed eaters, hedge trimmers chainsaws, hoes, loppers, machetes, and a rubber-tracked skid steer as necessary. Minor deficiencies discovered will be repaired including filling voids with onsite material, repairing small portions of the wood walls, replacing support structures for the walls and appurtenant structure, and other miscellaneous items encountered. A two-striped garter snake relocation plan is required, and biological monitoring is required on-site daily during project activity.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along Rustic and Rivas Channels. Vegetation and shrubs were removed using hand tools and a rubber tracked skid steer. Channel repairs will be conducted in 2022-23 (pending permit). Minimal dust was generated during vegetation removal.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.
See Attached Separate Annual Report by Psomas

Project Start Date: 09/30/22

Project End Date: 10/11/22

Completed by:

Name:	<i>[Signature]</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>5-11-23</i>

Approved by:

Name:	<i>[Signature] Eden Berhan</i>
Title:	<i>Sr. Civil Engineer</i>
Date:	<i>5/16/2023</i>

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	74

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board's (RWQCB) requirements for flowing water. Proper vegetation removal methods were conducted along Rustic and Rivas Channels. Vegetation and shrubs were removed using hand tools and a rubber tracked skid steer. Channel repairs will be conducted in 2023. All equipment and hand tools were cleaned before leaving the site. BMP's were implemented to maintain water quality. The following Best Management Practices were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

A two-striped garter snake relocation plan was implemented. See Annual Report by Psomas for findings.

Completed by:

Approved by:

Name:	
Title:	Construction Superintendent
Date:	5-11-23

Name:	Eden Berhan
Title:	Sr. Civil Engineer
Date:	5/16/2023

JEC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2022-2023 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along Rustic and Rivas Channels. Vegetation and shrubs were removed using hand tools and a rubber tracked skid steer. Channel repairs will be conducted in 2023. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	
Title:	Construction Superintendent
Date:	5-11-23

Approved by:

Name:	
Title:	Sr. Civil Engineer
Date:	5/16/2023

JOC

Los Angeles County Channel Maintenance Project 2022-2023

Mitigation Monitoring Program

Reach Name RIVAS & RUSTIC

Reach Number 118 & 119

DATE	AIR	H2O	NOISE	COMMENT	INITIAL
9/30	GOOD	DRY	MODERATE	FIRST DAY ON THE JOB SITE. MINOR PREPPING ON ACCESS ROAD. BIOLOGIST MARK CLEARED FOR SNAKES. WATER SAMPLER GARO CLEARED TO BEGIN SCHEDULED WORK. BEGAN AND FINISHED RIVAS. BEGINNING OF RUSTIC WAS PARTIALLY COMPLETED. 16 COUNTY WORKERS JOINED FOR SB. 24 TONS OF MATERIAL WAS REMOVED FROM RUSTIC AND RIVAS. FOR REFERENCE SEE PHOTOS ON (P:) DRIVE.	RN
10/1	GOOD	DRY	MODERATE	TODAY WE PLACED BMP STAW WADDLE AT THE END OF RUSTIC CREEK WHERE SB BECOMES CONCRETE LINED CHANNEL. AFTER THE BMP'S, WE CONTINUED SB CLEARING INTO RUSTIC. BIOLOGIST SARAH CLEARED FOR SNAKES. WATER SAMPLER GARO CLEARED TO CONTINUE VEGETATION REMOVAL. 11 COUNTY EMPLOYEES ASSISTED WITH TODAYS SB TASK. TWO TEN YARD TRUCKS WERE FILLED WITH MATERIAL BUT WERE NOT ABLE TO DUMP AT A WASTE MANAGEMENT FACILITY DUE TO FACILITY HOURS. MORE PICTURES OF TODAYS PROGRESS ARE UPLOADED TO THE (P:) DRIVE.	RN
10/3	GOOD	DRY	MODERATE	BIOLOGIST SARAH AND WATER SAMPLER GARO CLEARED TO CONTINUE VEGETATION REMOVAL. WE BEGAN AT THE NARROW PART OF RUSTIC CHANNEL. WE WORKED OUR WAY THROUGH 6 TIERS. ABOUT 10 CUBIC YARDS OF MATERIAL WAS REMOVED. THE STORAGE CONTAINER WAS DELIVERED TODAY.	RN
10/4	GOOD	DRY	MODERATE	BIOLOGIST SOPHIE AND WATER SAMPLER GARO CLEARED TO CONTINUE VEGETATION REMOVAL. WE STARTED CUTTING TODAY AT THE BRIDGE AT BROOKTREE. THE CREW CUT AND DRAGGED THE VEGETATION OF 6 TIERS. 10 CUBIC YARDS WERE REMOVED.	RN
10/5	GOOD	DRY	MODERATE	WATER SAMPLER ISAC CLEARED TO CONTINUE VEGETATION REMOVAL. THE CREW CONTINUED AT THW BRIDGE AT BROOKTREE. THEY WRAPPED THIS SECTION UP AROUND 10AM. WE THEN CONTINUED TO THE END OF THE STREET AT HIGHTREE. A TOTAL OF 6 TIERS WERE COMPLETED TODAY. WE WILL RESUME TOMORROW WHERE WE LEFT OFF AT HIGHTREE. ABOUT 10 CUBIC YARDS OF MATERIAL WAS REMOVED.	RN

[This page is intentionally left blank]

ATTACHMENT NO. 3
PRE- AND POST-CLEARING BIOLOGICAL
RESOURCES MONITORING FORMS

[This page is intentionally left blank]

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 1

Special Permit Conditions (list):

Hand Clearing only. The operator shall not impact the 0.27 acre of vegetation allowed to remain in 1997.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 27, 28; Riparian herb and ruderal vegetation in area maintained; Castor Bean present.

Name of Biological Monitor: Steve Morris Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 12, 13; willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: March 6, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 2

Special Permit Conditions (list):

Operator shall not impact the 0.39 acre of vegetation allowed to remain in 1997. Hand clearing only. Width of clearing shall not exceed 20 FT. Native Trees with a DBH of 3 inches or greater shall not be removed.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 29, 30, 31; Riparian herb and ruderal vegetation in area maintained; a variety of ornamental vegetation present, most not a problem, but some ground cover are invasive.

Name of Biological Monitor: Steve Moulis Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2, 3; Willows and sycamores, but also some ornamental trees and shrubs.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Moulis Date: January 7, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 3

Special Permit Conditions (list):

Hand Clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 3,4; Pastoral vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morris Date: August 16, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 22,23; Coast Live Oak and Eucalyptus.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: November 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 4

Special Permit Conditions (list):

No special permit conditions pertain to this reach.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1,2; Riparian herb, including Willows less than one year old, and ruderal vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Moritz Date: August 16, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 20,21; A mix of ornamental and native trees and shrubs outside channel.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Moritz Date: November 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 5

Special Permit Conditions (list):

Hand Clearing only. Exotics shall be removed during maintenance activities. The vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 35, 36, 37; Riparian herb dominated by cattails in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morin Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed:

Photos 7, 8, 9; Willow riparian.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: March 25, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 6

Special Permit Conditions (list):

Hand clearing only. Exotics shall be removed. Vegetation allowed to remain shall not be impacted by future maintenance activities.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 38, 39; Riparian herb, willow branches, and riparian vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Monte Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 10, 11; Willows, Coast Live Oaks, and some ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Monte Date: March 25, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 8

Special Permit Conditions (list):

Hand Clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 10, 11; Riparian herb and several vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Mowbr Date: August 16, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 14, 15; adjacent ornamental trees "overhang" the reach somewhat.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mowbr Date: March 6, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 9

Special Permit Conditions (list):

Hand Clearing only. Impacts shall not exceed 0.12 acre.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 16, 17; Some ruderal vegetation in area maintained;
disturbance not a problem but trash scattered throughout reach.

Name of Biological Monitor: Steve Morin Date: August 16, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 18, 19; Non-native Ash Trees.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: November 9, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 10

Special Permit Conditions (list):

Operator shall not impact the 2.11 acres of vegetation allowed to remain in 1997.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 12, 13, 14, 15; Riparian herb and ruderal vegetation in area maintained; Washington Palms and some ornamental trees growing in rip-rap at upper end of reach.

Name of Biological Monitor: Steve Morin Date: August 16, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 20, 21, 22, 23; All vegetation removed. (There is no protected vegetation in this reach, such as willows, etc).

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: November 4, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 12

Special Permit Conditions (list):

Hand clearing only. Special permit conditions for the Santa Ana sucker (SAS) apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1,2,3; Some cattails in margins of ponded water, as usual. Upland areas show human disturbance (trash & graffiti). Mature willow woodland habitat through most of the reach, lacking understory.

Name of Biological Monitor: Sarah Thomas Date: August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2,3; Willow woodland removal included cattails and herbaceous understory species such as mugwort. Non-native removal included castor bean, etc.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sarah Thomas Date: December 8, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: B

Special Permit Conditions (list):

No special permit conditions apply to this reach.

Observation of Special Status Species:

None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1, 2; mostly lacking vegetation in area maintained; a few tree tobacco, but invasives not an issue.

Name of Biological Monitor:

Sarah Thomas

Date: August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2; alluvial Sage scrub habitat downstream of maintained area. 2022-2023 very wet year, herbaceous cover higher than normal.

Compliance with Permit Conditions:

Full



Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor:

Sarah Thomas

Date:

March 31, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 14

Special Permit Conditions (list):

No removal of the 0.5 acre of willow vegetation allowed to remain in 1997. Special permit conditions for least bell's vireo apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1,2,3; Willow riparian woodland on banks of channel, alluvial sage scrub upland. Tree of heaven is getting thick on north bank, Castor bean is persisting. Upland to the north, sediment is being stockpiled by nearby construction, not DPW associated.

Name of Biological Monitor: Sarah Thomas Date: August 29, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2,3; Willow riparian adjacent to removal area, approximately 25 tree of heaven removed, and three castor bean removed west of bridge, one tamarisk removed east of bridge.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sarah Thomas Date: December 8, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 15

Special Permit Conditions (list):

operator shall not impact the 0.01 acre of vegetation allowed to remain in 1997.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 5, 6, 7, 8, 9; Riparian herb and acednal vegetation in area maintained; Castor Bean mostly at upper end of reach and also large amounts of trash throughout the reach.

Name of Biological Monitor: Steve Morin Date: August 16, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 13, 14, 15, 16, 17; No vegetation allowed to remain in channel except small patch (0.01 acre) at downstream end of reach.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: November 4, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 16

Special Permit Conditions (list):

Hand clearing only, impacts shall not exceed 0.07 acre.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1,2; sparse riparian vegetation in area maintained;
invasives not a problem.

Name of Biological Monitor: Steve Movie Date: August 17, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2; Oak woodland at upstream end of reach.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Movie Date: March 24, 2023

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 18

Special Permit Conditions (list):

Stand Clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 9,10,11: Reduced Vegetation in area maintained; Tree of Heaven on right bank and overhanging reach just upstream of entrance bridge to Camp Max Stream.

Name of Biological Monitor: Steve Morin

Date: August 17, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 3,4,5; Chaparral, Coast Live Oaks, and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin

Date: March 24, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 19

Special Permit Conditions (list):

Hand Clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 13, 14; Rubus vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Mott Date: August 17, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 13, 14; ornamental vegetation and some dispersed and/or abandoned hedge shrubs on right bank.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mott Date: March 24, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 20

Special Permit Conditions (list):

Impacts shall not exceed 0.13 acre (115 FT linear by 50 FT wide).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 19, 20; Prickly and ornamental vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Mowbr Date: August 17, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 11, 12; oak woodland and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mowbr Date: March 24, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 21

Special Permit Conditions (list):

Hand Clearing only. Impact shall not exceed 0.03 acre.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 17, 18; Rubus and ornamental vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morris Date: August 17, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 9, 10; Oak Woodland and some ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: March 24, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 22

Special Permit Conditions (list):

Hand Clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 15, 16; sparse growth of ruderal vegetation in area maintained; ~~Castor~~ small Castor Bean present

Name of Biological Monitor: Steve Morde Date: August 17, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 6, 7, 8; A mix of ornamental vegetation from adjacent homes with some choparal, sycamora, and oak.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morde Date: March 24, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 24

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 7, 8, 9, 10, 11; Riparian herb and riparian vegetation in area maintained; Arundo and Castor Bean present.

Name of Biological Monitor: Steve Morte Date: August 22, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed:

Photos 7, 8, 9, 10, 11; some reed beds in middle of low-flow channel at upstream end of reach, but otherwise all vegetation removed.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morte Date: November 19, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 25 (EAST & WEST)

Special Permit Conditions (list):

Operator shall not impact the 9.37 acres of vegetation allowed to remain in 1997.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1, 2, 3, 4, 5 (EAST BANK) & 6, 7, 8, 9, 10 (WEST BANK);
Minimally natural growth in area maintained; Arundo and Castor
Bean present.

Name of Biological Monitor: Kare Moulle Date: August 18, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2, 3, 4, 5 (EAST BANK) & 6, 7, 8, 9, 10 (WEST BANK); some large
Willows on east bank, otherwise all vegetation removed.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Kare Moulle Date: November 18, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 26

Special Permit Conditions (list):

Hand Clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1, 2, 3, 4, 5, 6; Ruderal vegetation and riparian herb, along with ornamental vegetation in area maintained; Castor Bean present.

Name of Biological Monitor: Steve Monk Date: August 22, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed:

Photos 1, 2, 3, 4, 5, 6; Willows and ornamental trees (mostly ash trees). Some reed beds in center of channel at downstream end of reach.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Monk Date: November 19, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 27

Special Permit Conditions (list):

current management plan includes full clearing of invert, trimming of vegetation on banks, trees up to 3 feet above ground. Island vegetation is protected.

Observation of Special Status Species: Southwestern willow flycatcher (SWF)

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-5; Invert has dense cattails and other herbaceous vegetation. Banks have shrubs, herbaceous vegetation, and mature Arroyo Willow and Cottonwoods.

Name of Biological Monitor: Sophie Aguilar Date: 8/17/2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-5: Willow riparian habitat: Shrubs & trees on the banks were trimmed & herbaceous vegetation was mowed. Vegetation on the island remained untouched. Cattails & herbaceous vegetation at invert was removed, aside from one stand of cattails due to equipment getting stuck. An entrainment channel was dug to allow water to flow/drain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sophie Aguilar Date: 10/17/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 28

Special Permit Conditions (list):

Hand Clearing only. Operator shall avoid impacts on Southwestern Pond Turtle. Clearing shall not extend beyond area cleared in 1997. No native trees with a DBH of 2 inches or greater shall be removed.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 5, 6, 7; Primarily natural vegetation in area maintained, but some riparian herb under bridge; invasives not a problem.

Name of Biological Monitor: Steve Morin Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 3, 4, 5; Willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: March 6, 2023

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 29

Special Permit Conditions (list):

Hand Clearing only, operator shall avoid impacts to Southwestern Pond Turtle. Operator shall not impact the 0.61 acre of vegetation allowed to remain in 1997. No native trees with a DBH of 2 inches or greater shall be removed.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 15, 16, 17; Riparian herb and riparian vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morik Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2, 3; willow and grassland/riparian field.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morik Date: March 25, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 32

Special Permit Conditions (list):

Hand Clearing only. No Vegetation allowed to remain in 1997.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 23, 24, 25, 26; Riparian herb and ruderal vegetation in area maintained; diversion not a problem.

Name of Biological Monitor: Steve Morin Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 14, 15, 16, 17; Chaparral, oaks, and some ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: January 7, 2023

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 33

Special Permit Conditions (list):

The maintenance activities performed for this reach include lollipoping willow trees, removal of exotic/non-native vegetation, and removal of debris and trash. Operator shall avoid impacts to southwestern Pond Turtles.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 12, 13, 14; Willow riparian forest and freshwater marsh habitat; invasives not a problem.

Name of Biological Monitor: Steve Morik Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 4, 5, 6; Mostly willows with some reed beds in channel.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morik Date: March 25, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 35

Special Permit Conditions (list):

Hand Clearing only, impacts shall not exceed 0.14 acres. No native trees with a DBH of 2 inches or greater shall be removed. Much of the vegetation has been cleared due to ongoing bridge work under route 101.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 10, 11; Riparian herb and ruderal vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Mowbray Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 8, 9; A few shrubs and small trees (olive & sycamore). Most of vegetation was removed from recent bridge work.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mowbray Date: March 6, 2023

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 36

Special Permit Conditions (list):

Hand Clearing only. Operator shall not impact the 0.05 acre of vegetation that was allowed to remain in 1987.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1, 2; sparse residual vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morik Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos; willows (10/11)

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morik Date: March 6, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 37

Special Permit Conditions (list):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 8, 9; Riparian herb and ruderal vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morris Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 6, 7; Willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: March 6, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 38

Special Permit Conditions (list):

Hand Clearing only. impacts shall not exceed 0.19 acre. No
native Trees with a DBH of 2 inches or greater shall be removed.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 3, 4; Riparian herb and ruderal vegetation in area maintained;
invasives not a problem.

Name of Biological Monitor: Steve Morik Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2; willow and grassland.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morik Date: March 6, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 39

Special Permit Conditions (list):

SPECIAL PERMIT CONDITIONS FOR SANTA ANA SUCKER(SAS) & LEAST BELL'S VIREO (LBV).

Observation of Special Status Species: _____

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

PHOTOS 1-4: WILLOWS, CAT TAILS, & OTHER HERBACEOUS VEGETATION CAN BE SEEN IN CHANNEL. SOME ARUNDO & CASTOR BEAN SEEN ON BANKS OF CHANNEL. TRASH & HOMELESS ENCAMPMENT PRESENT NEAR CHANNEL.

Name of Biological Monitor: JACK UNDERWOOD

Date: 08/17/20

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

PHOTOS 1-4; WILLOWS & MULE FAT REMAIN. HERBACEOUS VEGETATION REMOVED.
PHOTO 3; WILLOW APPEARS TO HAVE BEEN KNOCKED OVER FROM THE HEAVY RAINS.

Compliance with Permit Conditions: Full Partial _____

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK UNDERWOOD

Date: 3/14/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 40 A

Special Permit Conditions (list):

Santa Fe Dam to 210 Fwy: hand & mechanical clearing
10 FT toe of levee & 75 FT wide area cleared in alternate
years.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-5: Dense grasses provide a majority of ground cover.
Willows & Mule Plant present in channel. Castor Bean &
some arundo seen as well.

Name of Biological Monitor: Jack Underwood Date: 08/16/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-5; Some herbaceous vegetation & grasses remain in invert. Invasives
have been completely removed. Invert is covered by water during post-documentation
survey.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 3/06/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 40B

Special Permit Conditions (list):

I-10 Fwy to Thienes Ave. Protect Vegetation allowed to remain in 1997. Special Permit conditions for least Bell's vireo apply to this reach.

Observation of Special Status Species: NONE observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-12: Channel consists of dense grasses & other non-native herbaceous vegetation. Willows, oaks, & mulk that found along southern end of reach. Arundo & castor bean present along channel.

Name of Biological Monitor: Jack Underwood Date: 08/16/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-12: channel is filled with water. Rip Rap cleared of all vegetation. Arundo, castor bean, & other non-native herbaceous vegetation remains in invert where crew couldn't reach. Willows, mulk & other large shrubs allowed to remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Flooded channel prohibited access to vegetation in need of maintenance. The crew adhered to the permit conditions as best they could.

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 03/31/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 41

Special Permit Conditions (list):

No special conditions pertain to this reach.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1, 2, 3; Riparian herb and natural vegetation in area maintained; Castor Bean present.

Name of Biological Monitor: Steve Mark

Date: August 19, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 15, 16, 17; Willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mark

Date: March 24, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 42

Special Permit Conditions (list):

No special permit conditions pertain to this reach.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 4, 5, 6; Riparian herb and ruderal vegetation in area maintained; Numerous large Castor Bean present.

Name of Biological Monitor: Steve Morley Date: August 19, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 18, 19, 20; Willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morley Date: March 29, 2023

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 43A

Special Permit Conditions (list):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Species permit conditions for least Bell's Vireo apply to this reach.

Observation of Special Status Species: _____

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos: 1-5, Channel ground cover consists of highly dense grasses, non-native herbaceous vegetation, & weeds. Arundo, castor bean & tree tobacco. Eucalyptus & ash trees observed in channel. Native oaks & willow seen.

Name of Biological Monitor: Jack Underwood Date: 08/17/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos: 1-5; Primarily willows & mule fat allowed to remain. Herbaceous grasses, & arundo as well as some ornamental (ash, palms & eucalyptus) removed. No pesticides were used.

Compliance with Permit Conditions: Full Partial _____

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 10/31/2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number:

43 B

Special Permit Conditions (list):

Vegetation allowed to remain in 1997, shall not be impacted by future maintenance activities. Species permits for least Bell's vireo apply to this reach.

Observation of Special Status Species:

None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

PHOTOS 1-4: Channel consists of grasses & other herbaceous / non-native vegetation in maintained areas. Castor bean & some arundo present. Oaks & willows present throughout reach.

Name of Biological Monitor:

Jack Underwood

Date:

08/17/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

PHOTOS 1-4; crew removed invasive vegetation along the toe & slope of the right bank. willows & mule fat allowed to remain.

Compliance with Permit Conditions:

Full



Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor:

Jack Underwood

Date:

10/31/2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 44

Special Permit Conditions (list):

Maintenance activities shall not go beyond areas cleared in 1997. Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities.

Observation of Special Status Species: None Observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-13: Mostly dense grasses & herbaceous / non-native vegetation in maintained areas. Willows & oaks can be seen along toe & center of channel. Some cattails seen @ mouth of outlets, Castor bean & tree tobacco seen.

Name of Biological Monitor: Jack Underwood Date: 08/16/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 14: Invert was flooded. Herbaceous vegetation removed from the toe & riprap. Invasives cleared, willows & oaks remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 03/31/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 47

Special Permit Conditions (list):

Clearing shall not occur more than 20ft. beyond toe of levee.
Special permit conditions for unarmored three-spine stickleback
(LUTS) apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

photos 1-4; primarily unvegetated in area maintained-
side outlets contain herbaceous vegetation, including weedy
grasses, some mature cottonwoods, cattails, buckwheat and
chamise.

Name of Biological Monitor: Sophie Aguilar Date: 8/24/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-4; All vegetation within 20 ft of toe of levee has been
removed.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 11/10/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 48

Special Permit Conditions (list):

No special permit conditions pertain to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

- Photos 1 and 2; Southwest end of reach relatively clear of vegetation; Tree of Heaven and Tree Tobacco present. Northeast end of reach contains dense mixed riparian vegetation including Tamansk, cattail, Tree Tobacco, Tree of Heaven, mature cottonwoods, and some palms. Some evidence of trash and homeless encampment.

Name of Biological Monitor: Sophie Aguiar Date: 8/23/2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-2; Ornamental vegetation with some Palms & tree tobacco still present on bank. Southwest invert mostly free of vegetation. Some tree tobacco still present

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 03/14/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 49

Special Permit Conditions (list):

No special permit conditions pertain to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-2; mainly unvegetated in areas maintained.
Invasives not a problem.

Name of Biological Monitor: Sophie Aguilar Date: 8/23/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-2; Little herbaceous vegetation present on toe of the east & west banks. Invert unvegetated in maintained areas.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 3/14/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 53

Special Permit Conditions (list):

No special permit conditions pertain to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-2; Reach consisted of some cattails/grasses, western sunflower, small palms. Invasives not a problem.

Name of Biological Monitor: Sophie Aguilar Date: 8/24/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2; Herbaceous vegetation, cattails & small palms removed from channel. No homeless encampment present.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 11/10/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 54

Special Permit Conditions (list):

Impacts shall not exceed 0.31 acre. Special permit conditions for UTS apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-2; Riparian vegetation present including willow, cottonwood, gum tree and Oak tree. Additionally cattails, non-native grasses and some small palms on levee. Invasives include Tree Tobacco and Tamarisk.

Name of Biological Monitor: Sophie Aguilar Date: 8/25/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2; Channel & bank cleared of vegetation. Flowing water present.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 11/10/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 55

Special Permit Conditions (list):

Clearing shall not occur > 20 ft beyond the toe of the levee. Special permit conditions for unarmored three-spine stickleback apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-8; Mostly unvegetated in area maintained except for some low stature herbaceous species at outlets, due to periodic release of "nuisance" water. Invasives not a problem at this reach.

Name of Biological Monitor: Sarah Thomas Date: August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-8; Alluvial scrub occurs adjacent to maintained area, within a braided cobbly streambed.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sarah Thomas Date: March 31, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 56

Special Permit Conditions (list):

Clearing shall not occur more than 20FT beyond toe of slope.
Special permit conditions apply to this reach for unarmored threespine
stickleback.

Observation of Special Status Species: None Observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-3; area is primarily unvegetated in the area that's
maintained.

Name of Biological Monitor: Jack Underwood Date: 8/30/2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-3; Mule Fat & some sage remaining in area maintained.
No invasives remaining.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 11/10/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 58

Special Permit Conditions (list):

Clearing shall not occur > 20 feet from toe of levee. Special conditions apply to this reach for unarmored threespine stickleback.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-5; sparse growth of herbaceous vegetation in area maintained. Invasives are not a problem in this reach.

Name of Biological Monitor: Sarah Thomas Date: August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-5; alluvial Sage Scrub occurs throughout the adjacent areas.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sarah Thomas Date: December 8, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 60

Special Permit Conditions (list):

Clearing shall not occur >20 feet from toe of levee.
Special permit conditions apply for unarmored three-spine
stickleback apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1,2,3; mostly unvegetated, some sparse
herbaceous vegetation in the area maintained.
Invasive species not a problem here.

Name of Biological Monitor: Sarah Thomas Date: August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2,3; alluvial sage scrub habitat occurs
adjacent.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sarah Thomas Date: December 8, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: W1 (combined w/reach W2)

Special Permit Conditions (list):

clearing shall not occur more than 20 ft. beyond toe of levee.
Special permit conditions for UTS apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

photos 1-6; Moderate covering of herbaceous vegetation, alluvial
sage scrub vegetation, and mature cottonwoods in maintained
area. Invasives not a problem.

Name of Biological Monitor: Sophie Aguilar Date: 8/23/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-6: Alluvial Sage Scrub with scattered cottonwoods

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sophie Aguilar Date: 10/26/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 03

Special Permit Conditions (list):

Impacts shall not exceed 0.85 acre. Special permit conditions for unarmored threespine stickleback apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1, 2, 3; Area maintained is largely unvegetated, invasives not a problem at this reach.

Name of Biological Monitor: Sarah Thomas Date: August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2, 3; Area surrounding reach is largely a ruderal vacant lot, some riparian species (mulefat, willow, cottonwood) sparsely occurring as well as alluvial scrub nearby.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sarah Thomas Date: April 3, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 67

Special Permit Conditions (list):

Impacts shall not exceed 0.10 acre. Special permit conditions for unarmored threespine stickleback apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1, 2, 3; thick herbaceous growth in channel upstream of aqueduct (e.g., bulrush), willow riparian woodland occurs downstream of aqueduct. Invasives not a problem at this reach.

Name of Biological Monitor: Sarah Thomas Date: August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2, 3; Mature willow woodland occurs adj. (downstream), and alluvial scrub occurs upland.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sarah Thomas Date: March 31, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 66

Special Permit Conditions (list):

Clearing shall not occur beyond 20 ft of toe of levee. Special permit conditions for unarmored threespine stickleback apply to this reach.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1,2; unvegetated in area maintained except for small herbaceous species, especially at outlet. Two cottonwood trees overhang maintenance area. Invasives not a problem at this reach.

Name of Biological Monitor: Sarah Thomas Date: August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2; largely alluvial scrub adjacent to this reach.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sarah Thomas Date: March 31, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 67

Special Permit Conditions (list):

Special permit conditions for unarmored three-spine stickleback (UTS) apply for this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-3; Alternative sides of the levee cleared annually. Vegetation consists of a mix of cattails/reeds, western sunflower, cottonwood saplings and other herbaceous vegetation. Some tamarisk present.

Name of Biological Monitor: Sophie Aguilar Date: 8/22/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-3: One year strip of herbaceous vegetation within the center of the invert.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sophie Aguilar Date: 10/26/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 69

Special Permit Conditions (list):

Special permit conditions for unarmored threespine stickleback apply to this reach.

Observation of Special Status Species:

Bat colony roosting under Urbandale bridge.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1,2,3; Alternating halves cleared annually, vegetation consist of willow scrub (Salix exigua) and small stature herbaceous species such as cocklebur and in grasses (Bromus spp.)

Name of Biological Monitor:

Sarah Thomas

Date:

August 25, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2,3; All sediment removed from concrete portion of reach, one yr old strip of vegetation occurs on right side of channel.

Compliance with Permit Conditions:

Full

Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor:

Sarah Thomas

Date:

December 8, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 70

Special Permit Conditions (list):

Special permit conditions for unarmored three-spine stickleback (UTS) apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

photos 1-4; Alternating halves cleared annually. Reach mainly clear besides some sparse riparian scrub along the reach.

Name of Biological Monitor: Sophie Aguilar Date: 8/22/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-3: Show the invert cleared

Photo 4: remainder of invert left uncleared upstream.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sophie Aguilar Date: 10/26/2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 71

Special Permit Conditions (list):

Clearing shall not occur beyond 20 FT of the levee. Special Permit conditions for Unarmored Threespine stickleback (UTS) apply to this reach.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

PHOTOS 1 & 2; Sparse new vegetation growth in maintained area. Willows & cotton woods present. Arundo seen just outside the 20 FT boundary.

Name of Biological Monitor: JACK Underwood Date: 08/15/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

PHOTOS 1, 2; Only alluvial Sage scrub & a few cotton woods remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 11/10/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 72

Special Permit Conditions (list):

No special permit conditions pertain to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

photos 1-2; Herbaceous vegetation growth and several cottonwoods at mouth of reach. One Tree of Heaven also present at mouth.

Name of Biological Monitor: Sophie Aguilar Date: 8/18/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2; vegetation cleared from channel & banks. Some cottonwoods were trimmed back.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 11/10/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 13

Special Permit Conditions (list):

Impacts shall not exceed 0.05 acre.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-2; native and non-native grasses and sparse growth of herbaceous vegetation in maintained area. Invasives not a problem.

Name of Biological Monitor: Sophie Aguilar Date: 8/19/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-2; Herbaceous vegetation removed in maintained area.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 03/14/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 75 Orchard Village Dr. to Magic Mountain Pkwy)

Special Permit Conditions (list):

The vegetation (15.37 acres) allowed to remain in 1997 shall not be impacted by future maintenance activities. (protected vegetation located between Magic Mountain Pkwy and Orchard Village Dr.)

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

photos 1-11; mix of herbaceous vegetation (native and non-native), mature cottonwood and willow, cattails and grasses at wet outlets. Invasives not a problem.

Name of Biological Monitor: Sophie Aguilar Date: 8/19/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-11; All necessary vegetation has been removed. Willows & cotton woods remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sophie Aguilar Date: 10/27/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 75 (Lyons Ave. to Orchard Village Dr.)

Special Permit Conditions (list):

The vegetation (15.37 acres) allowed to remain in 1997 shall not be impacted by future maintenance activities. (No vegetation allowed to remain between Lyons Ave. and Orchard Village Dr.)

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1,2; mix of cattails, herbaceous vegetation + grasses (native and non-native) in area maintained. Invasives not a problem.

Name of Biological Monitor: Sophie Aguilar Date: 8/19/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2; All necessary vegetation has been removed. Willows & Cottonwoods remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sophie Aguilar Date: 10/27/2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 76

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 25, 26, 27; Redwood vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morris Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 6, 7, 8; All vegetation removed from channel.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: November 4, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 77

Special Permit Conditions (list):

Vegetation (0.89 acre) allowed to remain in 1997 shall not be
impacted by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 28, 29; Primarily unvegetated in area maintained, but a
few residual species are present; invasives not a problem.

Name of Biological Monitor: Steve Moritz Date: August 18, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 9, 10; Some alluvial sage scrub vegetation at downstream
end of reach (at confluence with Florence Canal - Reach 78),
but otherwise bare dirt.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Moritz Date: November 4, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 78

Special Permit Conditions (list):

Vegetation (0.89 acre) allowed to remain in 1997 shall not be
impacted by future maintenance activities

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 30, 31; Primarily unvegetated in area maintained, but a few
native species are present; invasives are not a problem.

Name of Biological Monitor: Steve Mark Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 11, 12; Alluvial vegetation on banks

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mark Date: November 4, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 79

Special Permit Conditions (list):

Vegetation allowed to remain shall not be impacted by future maintenance activities. Special permit conditions for UTS apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-3; Minimal coverage of herbaceous vegetation / woody shrubs. Small population of tree tobacco. Some trash due to homeless encampments.

Name of Biological Monitor: Sophie Aguilar Date: 8/19/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-3; Herbaceous vegetation removed from area maintained.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sophie Aguilar Date: 10/26/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 80

Special Permit Conditions (list):

Clearing shall not occur more than 20ft. beyond toe of levee.
Vegetation allowed to remain in 1997 shall not be impacted by future
maintenance activities. Special permit conditions for UTS apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Vegetation consists of mature cottonwoods, herbaceous shrubs,
- and scattered sunflowers. Castor Bean and Tree of
Heaven present. One Palo Verde observed. Maintained area mostly
clear.

Name of Biological Monitor: Sophie Aguilar Date: 8/22/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-4; willows, cotton woods, mule fat, sage brush, castor bean & some
sparse herbaceous vegetation in maintained area.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Sophie Aguilar Date: 10/26/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 82

Special Permit Conditions (list):

Clearing shall not extend more than 20 ft. beyond toe of levee. Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Special permit conditions for UTS apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-4; cattails and herbaceous vegetation at mouth of side outlet, native and non-native grasses in maintained areas. Invasives not a problem.

Name of Biological Monitor: Sophie Aguilar Date: 8/22/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-4; Vegetation Trimmed/Thinned within the 20 FT buffer from toe of levee. Willows, Cottonwoods, & Mulefat remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 11/10/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 86

Special Permit Conditions (list):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Special permit conditions issued on 12/09/03 apply to this reach (Millsback).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1, 2, 3; Ruderal Vegetation in low-flow channel maintained; Invasives not a problem.

Name of Biological Monitor: Steve Morley Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2, 3; Willows and Cottonwoods in Castaic Creek at downstream end of reach.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morley Date: November 14, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 87

Special Permit Conditions (list):

Special permit conditions issued on 12/09/03 apply to this reach (Hulleback).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 7, 8; Riparian herb and ruderal vegetation in area maintained; clivestree not a problem.

Name of Biological Monitor: Steve Morris Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 4, 5; willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: November 7, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 88

Special Permit Conditions (list):

Impacts shall not exceed 0.42 acre (1,085 linear FT by 17 FT wide)
by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 13,14; sparse growth of riparian vegetation in area
maintained. Invasives not a problem.

Name of Biological Monitor: Steve Moulton Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 4,5; sage scrub / alluvial sage scrub.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Moulton Date: November 14, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 89

Special Permit Conditions (list):

Vegetation (0.02 acre) allowed to remain in 1997 shall not be impacted by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photo 9: Very sparse growth of ruderal vegetation in area maintained; Invasives not a problem.

Name of Biological Monitor: Steve Morik Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photo 6: Alluvial sage scrub and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morik Date: November 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 90

Special Permit Conditions (list):

Vegetation (0.11 acre) allowed to remain in 1987 shall not be impacted by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 10, 11, 12; sparse growth of ruderal vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morris Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 7, 8, 9; allowed vegetation and/or ruderal vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: November 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 91

Special Permit Conditions (list):

No special permit conditions apply to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 21, 22; sparse growth of ruderal vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Mark Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 12, 13; ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mark Date: November 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 92

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 23, 24; very sparse growth of ruderal vegetation in area maintained; Chironia not a problem.

Name of Biological Monitor: Steve Morris Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 14, 15; sage scrub/alluvial sage scrub.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: November 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 93

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 19, 20; sparse growth of reedbed vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morley Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 10, 11; oaks, Chaparral, and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morley Date: November 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 94

Special Permit Conditions (list):

No special permit conditions listed for this reach, but the general conditions and measures of the permit apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 15, 16, 17, 18; Very sparse growth of reedbed vegetation in area maintained; Invasives not a problem.

Name of Biological Monitor: Steve Morin Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 16, 17, 18, 19; Ornamental and reedbed vegetation dominant, but some sage scrub/Chaparral species present.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: November 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 95

Special Permit Conditions (list):

NO special conditions apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

PHOTOS 1-4; Moderate growth of tumbleweed in areas maintained.
EROSION and damage to access road.

Name of Biological Monitor: Sophie Aguilar Date: 8/22/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

PHOTOS 1-4: Toe of RIPRAP cleared of tumbleweeds & herbaceous
vegetation. INVERT has some vegetation remaining.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 03/31/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 96

Special Permit Conditions (list):

Hand clearing only.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

photos 1-2; Riparian herbaceous vegetation on both sides of bridge.
Some cattails, grasses. Stand of Arundo on North side of bridge.

Name of Biological Monitor: Sophie Aguilar Date: 8/24/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-3: Channel cleared of herbaceous vegetation. Invasives
Fully removed

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 03/31/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 97

Special Permit Conditions (list):

Operator shall not impact the vegetation (1.17 acres) allowed to remain in 1997. Special permit conditions issued on 12/09/03 apply to this reach (Stiddlebrook).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 4, 5, 6; Riparian herb and woody vegetation in area maintained; ~~and~~ some Arundo present.

Name of Biological Monitor: Steve Mowbr Date: August 15, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2, 3; Willows, Cottonwoods, and Mulefat.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mowbr Date: November 4, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 98

Special Permit Conditions (list):

IMPACTS should not exceed 0.03-acres.

Observation of Special Status Species: _____

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

PHOTOS 1, 2: Cattails & Non-native grasses as well as other herbaceous material present along banks of channel. Oaks & willows present.

Name of Biological Monitor: JACK Underwood Date: 08/17/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

PHOTOS 1, 2; Herbaceous vegetation on bank & reeds/cattails in channel have been removed.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 10/31/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 99

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions & measures of the permit apply.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 3, 4, 5, 6, 7, B; Riparian herb, ornamental, willow branches, and ruderal vegetation in area maintained; arundo & tree-of-heaven present near Kagel Canyon Rd Bridge.

Name of Biological Monitor: Steve Morris Date: August 17, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Mostly ornamental vegetation, but also some oak, willows & sycamore

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Lela Updegrave Date: 6/8/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 100

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 32, 33, 34; Riparian herb, ornamental, and ruderal vegetation in area maintained; does not present a problem.

Name of Biological Monitor: Steve Mowbr Date: August 20, 2022

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 4, 5, 6; Willows, oaks, and some ornamental vegetation

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mowbr Date: January 7, 2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 108

Special Permit Conditions (list):

No special permit conditions apply to this reach.

Observation of Special Status Species: NONE OBSERVED

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

photos 1-5; MIX of cattails, native and non-native grasses, riparian scrub, and herbaceous species. Invasives not a problem.

Name of Biological Monitor: Sophie Aguilar Date: 8/18/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-5; Vegetation removed from invert. Due to heavy rains a lot of the sediment has gotten blown out. No cattail regrowth observed.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 03/14/2023

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 112

Special Permit Conditions (list):

NONE pertain to the upper portion of this reach where work is now permitted

Observation of Special Status Species: _____

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photo 7: Upper section of reach 112 consists of bullrushes & cattails as well as native & non-native herbaceous vegetation in area maintained.

Name of Biological Monitor: Jack Underwood Date: 08/22/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photo 7; Sections of bullrushes & cattails remain in invert. Trash & other herbaceous vegetation cleared from slopes.

Compliance with Permit Conditions: Full Partial _____

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 01/17/2023

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 114

Special Permit Conditions (list):

No special permit conditions pertain to this reach.

Observation of Special Status Species: none observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

PHOTOS 3, 4 & 5: Dense low growing grasses & other herbaceous vegetation growing on sediment deposits along the toes of the left & right banks, between P.C.W. & Anaheim St. Castor bean seen along the banks located between these 2 streets as well.

Name of Biological Monitor: JACK Underwood Date: 08/19/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

PHOTOS 3 & 4: show unvegetated riprap & invert. Photo 5: Area was potentially cleared, but invasives & other herbaceous vegetation was present in a previously maintained area.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood Date: 03/31/2023

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 118

Special Permit Conditions (list):

No special permits apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-5: High density of both native & non-native herbaceous vegetation in maintained areas. Channel is filled with riparian vegetation. Invasives not an issue

Name of Biological Monitor: Jack Underwood Date: 08/22/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-5; Herbaceous vegetation on banks & channel in maintenance area has been removed. Vegetation within a 500 FT buffer of concrete channel allowed to remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 10/13/2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 119

Special Permit Conditions (list):

No special permits apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photos 1-4: dense herbaceous vegetation present in maintained areas. Some castor bean present.

Name of Biological Monitor: Jack Underwood Date: 08/22/22

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-4; All vegetation has been removed from inside channel. Willows trimmed back on downstream portion.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 10/13/2022

ATTACHMENT NO. 4
PRE-CLEARING SURVEY AND REPORTS

[This page is intentionally left blank]

**RESULT OF PRE-CLEARING FOCUSED SANTA ANA
SUCKER SURVEY FOR
REACH 12 (HAINES CREEK MAIN CHANNEL OUTLET)
AND
REACH 39 (BEATTY CHANNEL OUTLET)**

October 20, 2022

Ms. Stacey Love
Recovery Permit Coordinator
U.S. Fish and Wildlife Service
2177 Salk Avenue, Suite 250
Carlsbad, California 92008

VIA EMAIL
stacey_love@fws.gov

Subject: Results of 2022-2023 Pre-Maintenance Focused Santa Ana Sucker Surveys in Two Soft-Bottom Channel Reaches for Los Angeles County Department of Public Works (LACDPW), Los Angeles County, California

Dear Ms. Love:

This Letter Report presents the results of pre-vegetation maintenance presence/absence surveys for the Santa Ana sucker (*Catostomus santaanae*) in two soft-bottom channel reaches for Los Angeles County Department of Public Works (LACDPW). Both reaches are located in Los Angeles County, California (Exhibit 1). The purpose of the focused surveys was to attempt to determine the presence or absence of the Santa Ana sucker within the clearing limits in each reach, or if presence / absence could not be determined, if potentially suitable habitat was present that may be supporting Santa Ana sucker. Surveys were conducted by a biologist who holds a U.S. Fish and Wildlife Service (USFWS) 10(a)1(A) recovery permit, in accordance with guidelines established by USFWS and with the requirements of the U.S. Army Corps of Engineers Nationwide Permit (SPL-2013-00723-BLR), and the California Department of Fish and Wildlife Streambed Alteration Agreement (SAA-1600-1999-0016-R5) for maintenance of the soft-bottom channel reaches. Annual pre-maintenance surveys for special status fish species, including Santa Ana sucker, have been conducted in soft-bottom channel reaches for LACDPW since 2002.

PROJECT LOCATION

Los Angeles River Reach 12 (Haines Creek Main Channel Outlet) is located within the Tujunga Wash Watershed, approximately ¾ mile northwest of the Oro Vista Avenue and Foothill Boulevard intersection, in the community of Sunland in the City of Los Angeles (Exhibit 2). The limits of Reach 12 are approximately 791 feet downstream of Wentworth Street to approximately 1,228 feet downstream of Wentworth Street (437 feet total length). The reach is found on the U.S. Geological Survey's (USGS') Sunland 7.5-minute quadrangle map.

San Gabriel River Reach 39 (Beatty Channel Outlet) is located within the San Gabriel River Watershed, approximately 0.8 mile north of the Foothill Boulevard and Irwindale Avenue intersection in the City of Azusa (Exhibit 2). The limits of Reach 39 are approximately 2,323 feet downstream of Todd Avenue to approximately 2,415 feet downstream of Todd Avenue (145 feet total length). The reach is found on the USGS Azusa 7.5-minute quadrangle map.

5 Hutton Centre Drive
Suite 300
Santa Ana, CA 92707

Tel 714.751.7373
Fax 714.545.8883
www.Psomas.com

Ms. Stacey Love
October 20, 2022
Page 2

PROJECT DESCRIPTION

The LACDPW performs annual vegetation maintenance in channels and minor grading to retrain channel flows consistent with the clearing limits established by the permitted maintenance plan approved by the Los Angeles Regional Water Quality Control Board and U.S. Army Corps of Engineers and are modified by the California Department of Fish and Wildlife (CDFW) under the existing Streambed Alteration Agreement between the CDFW and the LACDPW. This ongoing program is necessary to maintain the design capacities of the channels and to ensure the proper functioning of these facilities located within LACFCD boundaries.

Within each reach, the LACDPW vegetation maintenance activities are conducted in the same areas (and acreage) that have been maintained annually since 1997. Biological impacts associated with the initial maintenance of vegetation for other maintenance activities in these channel reaches were previously mitigated through the maintenance and enhancement of 62.7 acres of riparian habitats at the Big Tujunga Wash Mitigation Bank site (BonTerra 1999).

Channel maintenance activities are performed primarily by mechanical means, using heavy equipment (such as trucks, bulldozers, dump trucks, and loaders), as well as other specialized equipment designed for this type of work. Hand clearing is conducted in areas where mechanical equipment cannot be used or where important biological resources exist nearby. Invasive and/or non-native vegetation including, but not limited to, giant reed (*Arundo donax*) and castor bean (*Ricinus communis*) is removed by hand.

SPECIES BACKGROUND

Santa Ana sucker is federally listed as a Threatened species and is a California Species of Special Concern. Its historic range included the Los Angeles, San Gabriel, and Santa Ana River systems; only these populations within its historic range are federally protected.

The CNDDDB contains several records (some historical and presumably extirpated) of Santa Ana sucker from the vicinity of the survey area (CDFW 2020):

- East Fork San Gabriel River on east side of Camp Oak Grove.
- East Fork San Gabriel River at Coyote Flat.
- East Fork San Gabriel River about 0.7 miles north of Coyote Flat.
- Cattle Canyon/Creek near junction with Dime Canyon.
- North Fork San Gabriel and West Fork San Gabriel River, approximately .5 miles below mouth of East Fork and Bear Creek in the Angeles Forest.
- Tujunga Creek at Foothill Bridge, downstream to junction with Haines Creek.
- Haines Creek and outlets from ponds north of creek.
- Fish Canyon, 0.7 miles downstream from confluence of Fern Canyon.

Ms. Stacey Love
October 20, 2022
Page 3

Santa Ana sucker is found in small, shallow streams with flows that run from slow to swift. It is most abundant where water is clear and unpolluted, although it can withstand seasonal turbidity. It is often associated with bottom materials of boulders, gravel, and cobble where there are growths of filamentous algae, though it is also occasionally found on sand or mud substrates (Thompson et al. 2010). Although Santa Ana sucker has generalized stream habitat requirements, it is intolerant of polluted or highly modified streams (USFWS 1999.). It is presumed that the majority of its diet consists of algae, including lithic diatoms, and detritus that it scrapes from rock surfaces, as well as occasional aquatic insect larvae (McGinnis 2006, and Moyle *et al.* 1995).

Adult Santa Ana sucker rarely exceed a standard length of eight inches (measured from snout tip to anterior of the caudal fin [tail fin]). It possesses a broad mouth with notches at the junction of the upper and lower lips, and the median notch on the lower lip is less well defined. Its body coloration is silver on the ventral (belly/underside) surface and darker with irregular blotches on the dorsal (back/top) surface. Its scale pattern has longitudinal lateral (along the length of their body) striping. The interradial membrane (membrane between the spines) of the caudal fin is pigmented, and the anal and pelvic fins normally lack pigment (Moyle 2001).

Santa Ana sucker are relatively short-lived; they become reproductively mature by the first year and spawn during the first and second years. Most Santa Ana sucker do not survive past the second year, although a few live three to four years. There is no sexual dimorphism (appearances between males and females are distinguishable), although reproductive males develop breeding tubercles (small bumps) over most of the body (Moyle 2001).

Santa Ana sucker spawning occurs from April until early July, but peaks in late May and early June. Santa Ana sucker spawn over gravel beds in flowing water where the female deposits the eggs in fine gravel substrate. The eggs hatch within 36 hours at 55.5 degrees Fahrenheit (°F), and the fry (fish hatchlings) congregate in shallow, slow-moving waters along the stream margins in water depths ranging from 1 to 5.5 inches, often over very soft sandy or muddy substrates. Edgewater habitat is probably used by fry because (1) it typically contains fewer predatory fish and (2) shallow water is warmer and probably allows the suckers to grow more quickly (USFWS 2010).

Santa Ana sucker are currently threatened by water diversions; alteration of stream channels; changes in the watershed that result in erosion and debris flows; pollution; and predation by non-native fishes. The primary cause for the extirpation of the Santa Ana sucker from lowland reaches of the Los Angeles, San Gabriel, and Santa Ana rivers is most likely due to increased urbanization (Swift 1993).

On January 4, 2005, the USFWS published a Final Rule designating 8,305 acres of critical habitat for Santa Ana sucker (USFWS 2010). Two areas were designated in Los Angeles County: one along the San Gabriel River (Unit 2) and the other along Big Tujunga Creek (Unit 3). This designation did not include habitat for the species in Orange, Riverside, or San Bernardino counties. Following lawsuits, the USFWS proposed a Revised Critical Habitat on December 9, 2009, adding habitat along the Santa Ana River in Orange, Riverside, and San Bernardino Counties to critical habitat for the species (USFWS 2010). This increased the critical habitat designation to 9,331 acres. On December 14, 2010, the USFWS published the Final Rule formalizing the Revised Critical Habitat (USFWS 2010). It should be noted that the survey area for the San Gabriel River (39) is not within the 2010 revised critical habitat for Santa Ana sucker.

Ms. Stacey Love
October 20, 2022
Page 4

Survey Methods

The initial studies conducted in 2002 included a background literature review and habitat assessment for each of the soft-bottom channel reaches that represented potentially suitable Santa Ana sucker habitat. The literature review included the documentation of relevant literature on the presence of sucker within each reach including areas both upstream and downstream. This included review of *Federal Register* listings, protocols, and species data provided by the USFWS and the CNDDDB; consultation with qualified experts familiar with the distribution and natural history of sucker; and review of unpublished biological resource letter reports and assessments conducted in the region.

Surveys in 2022 were conducted by consulting senior fisheries biologist Kerwin Russell (TE-86811A-0). 15-days prior to the surveys, Psomas notified Ms. Stacey Love from the USFWS of the intent to conduct the surveys for Santa Ana sucker and other special status fish species in the survey areas. Surveys were conducted on August 17, 2022. During surveys, all accessible wetted areas with potential to support sucker were surveyed visually and water temperature was recorded. Photos were also taken of each reach to document their condition (Exhibits 3a and 3b).

Survey Results

Santa Ana sucker was absent from Reach 12 during this survey. One fish species was observed, fathead minnow (*Pimephales promelas*), and one amphibian species was observed, California toad (*Anaxyrus boreas halophilus*). Clear water with low surface flow was present in this reach, primarily from urban runoff, and measured 75°F before 10:00 AM. Water conditions were stagnated with anaerobic pond bottom. Conditions at this reach are not suitable for sucker as it is too stagnate. Additionally, the water was clear enough to be visible, and sucker were absent from this reach.

Santa Ana sucker was absent from Reach 39 during the survey. The only wildlife observed was the western mosquitofish (*Gambusia affinis*). At the time of the survey this channel had 100 percent cover of submergent and emergent aquatic vegetation such as duckweed (*Lemna* sp.), cattails (*Typha* sp.), and swamp smartweed (*Persicaria hydropiperoides*). Dense vegetation caused water to flow slow which caused stagnate water conditions at this reach. In addition, the water temperature measured 75°F before 10:00 AM. Poor water quality (stagnate) renders this reach not suitable for sucker at this time.

Ms. Stacey Love
October 20, 2022
Page 5

Please contact Marc Blain at (626) 351-2000 if you have questions or comments.

Sincerely,

P S O M A S



Ann M. Johnston
Vice President, Resource Management



Marc T. Blain
Senior Project Manager

I certify that the information in this survey report and enclosed exhibits fully and accurately presents my work in cooperation with Psomas.



Kerwin Russell
Senior Fisheries Biologist
(TE-86811A-1)

Enclosures: Exhibit 1 – Regional Location
 Exhibit 2 – Reach 12 & 39 Local Vicinity
 Exhibit 3 – Representative Site Photos

cc: Marc Blain, Psomas
 Sarah Thomas, Psomas

Ms. Stacey Love
October 20, 2022
Page 6

REFERENCES

- BonTerra Consulting. 1999 (August). *Los Angeles County Channel Maintenance Project Initial Study*. Costa Mesa, CA: BonTerra Consulting.
- California Department of Fish and Wildlife (CDFW). 2020 California Natural Diversity Database. Records of Occurrence for the Santa Ana sucker in Los Angeles County. Sacramento, CA:
- McGinnis, S.M. 2006. *Field Guide to Freshwater Fishes of California, Revised Edition*. University of California Press, Berkeley, CA.
- Moyle, P.B., R.M. Yoshiyama, J.E. Williams, and E.D. Wikramanayake. 1995. *Fish Species of Special Concern in California*. Second Ed.
- Swift, C.C., T.R. Haglund, M. Ruiz, and R.N. Fisher. 1993. The Status and Distribution of the Freshwater fishes of Southern California. *Bulletin of the Southern California Academy of Sciences* 92:101–167. Los Angeles, CA: Southern California Academy of Sciences.
- Thompson, A.R., J.N. Baskin, J.N, C.C. Swift, T.R. Haglund, R. Nagel. 2010. Influence of habitat dynamics on the distribution and abundance of the federally threatened Santa Ana Sucker, *Catostomus santaanae*, in the Santa Ana River. *Environmental Biology of Fishes*. 87 (4): 321 - 332.
- U.S. Fish and Wildlife Service (USFWS). 2010 (December 14). Endangered and Threatened Wildlife and Plants; Revised Critical Habitat for Santa Ana Sucker; Final Rule. *Federal Register* 75(239): 77961–78027. Washington, D.C.: US
- U.S. Fish and Wildlife Service (USFWS). 1999 (January 26). Endangered and Threatened Wildlife and Plants: Proposed Threatened Status for the Santa Ana Sucker. *Federal Register* 64(16): 3915-3923. Washington, D.C.: US



D:\Projects\COLADPW\J153601\WXD\2022_2023_SBC_SAS_Report\RL_20220914.mxd

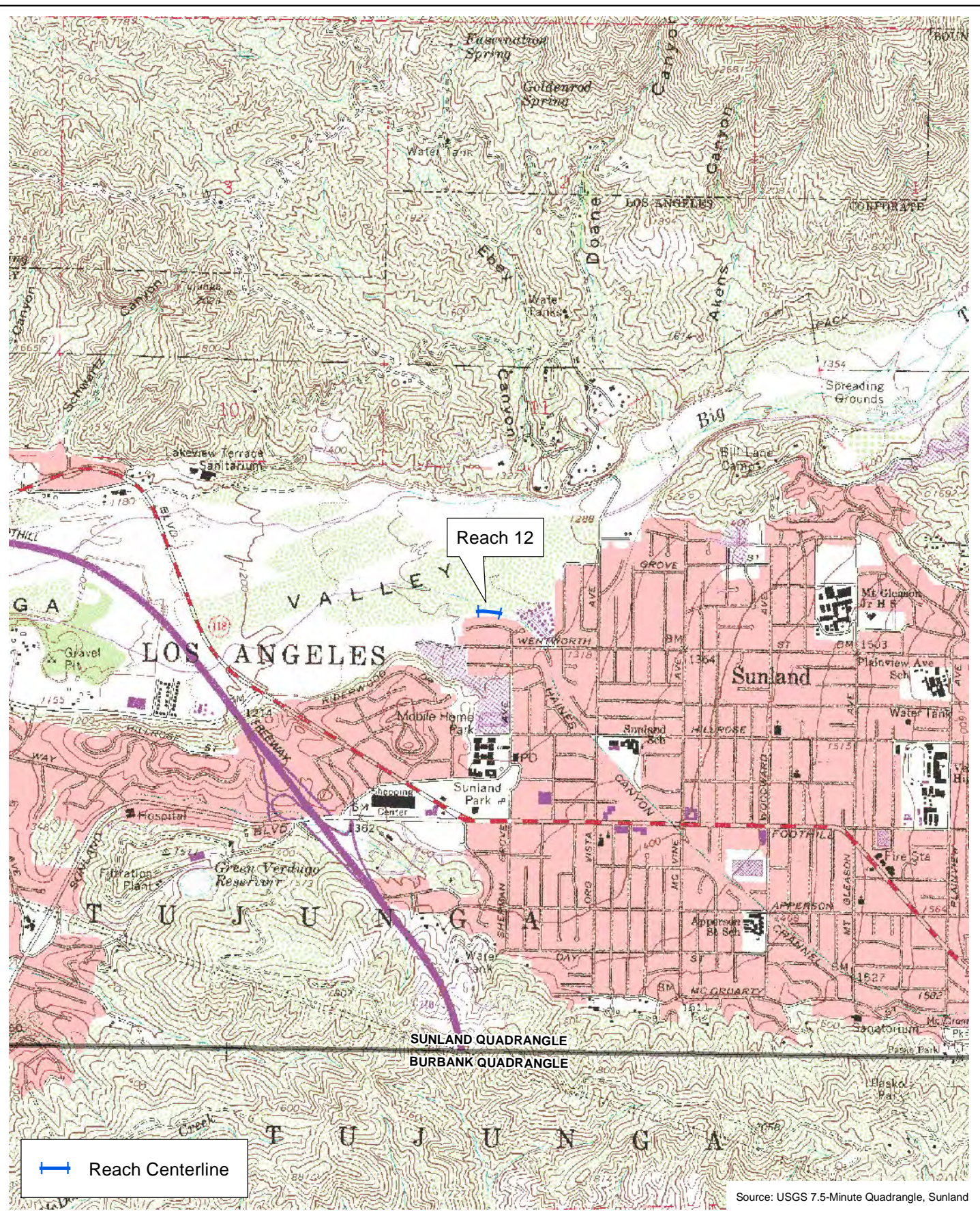
Regional Location

Exhibit 1

Santa Ana Sucker 2022-2023 Pre-Maintenance Presence/Absence Survey for LACDPW
 Soft-Bottom Channel Reaches 12 and 39



D:\Projects\COLA\DPW\153601\WXD\2022_2023_SBC_SAS_Reportex_LV_Reach12_20220914.mxd

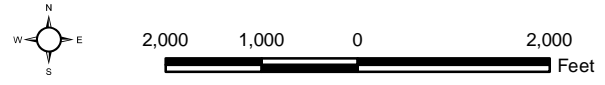


Source: USGS 7.5-Minute Quadrangle, Sunland

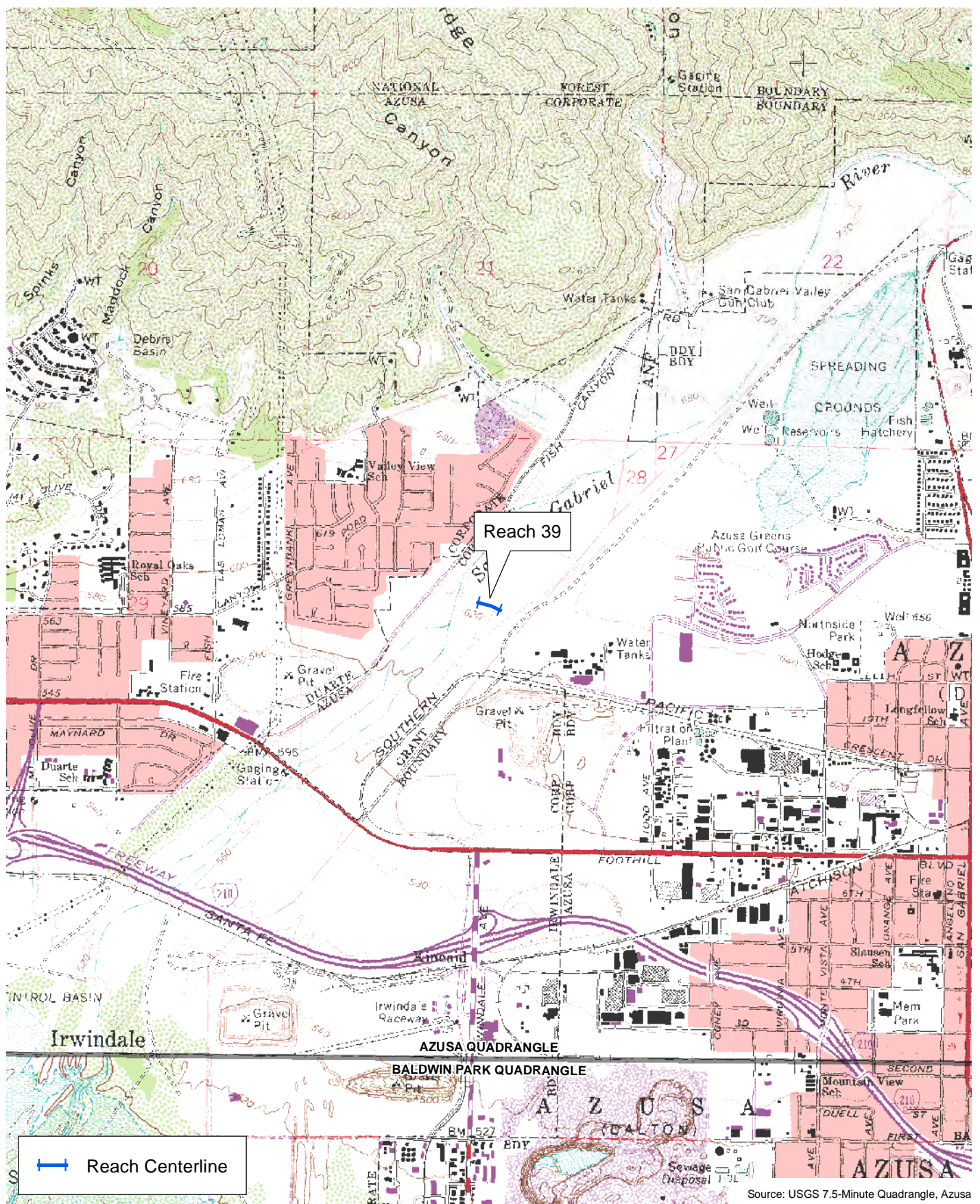
Reach 12 and 39 Local Vicinity

Exhibit 2a

Santa Ana Sucker 2022-2023 Pre-Maintenance Presence/Absence Survey for LACDPW
Soft-Bottom Channel Reaches 12 and 39



D:\Projects\COLDPW\153601\WXD\2022_2023_SBC_SAS_Report\LV_Reach39_20220914.mxd



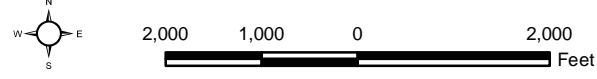
Source: USGS 7.5-Minute Quadrangle, Azusa

Reach Centerline

Reach 12 and 39 Local Vicinity

Exhibit 2b

Santa Ana Sucker 2022-2023 Pre-Maintenance Presence/Absence Survey for LACDPW
Soft-Bottom Channel Reaches 12 and 39





View of the center of Reach 39 facing downstream (northwest); showing dense herbaceous vegetation such as white sweetclover, rough cocklebur, common sunflower, and swamp smartweed growing in channel. Current conditions in this Reach are not suitable for SAS.



View of the upstream portion of Reach 39 facing downstream (west); showing more dense herbaceous vegetation growing in channel such as duckweed, cattails, common sunflower, and swamp smartweed. Current conditions in this Reach are not suitable for SAS.

Representative Site Photographs

Exhibit 3a

*Santa Ana Sucker 2022-2023 Pre-Maintenance Presence/Absence Survey for LACDPW
Soft-Bottom Channel Reaches 12 and 39*





View of the upstream portion of Reach 12 facing downstream (west); showing pool of clear water and riparian vegetation such as cattails and black willow. Current conditions in this Reach are not suitable for SAS.



View of center portion of Reach 12 facing downstream (southwest); showing miscellaneous trash within shallow, slow moving water. Current conditions in this Reach are not suitable for SAS.

Representative Site Photographs

Exhibit 3b

*Santa Ana Sucker 2022-2023 Pre-Maintenance Presence/Absence Survey for LACDPW
Soft-Bottom Channel Reaches 12 and 39*



[This page is intentionally left blank]

**UNARMORED THREESPINE STICKLEBACK PRE-
CLEARING PRESENCE/ABSENCE SURVEY RESULTS
FOR 27 LOS ANGELES COUNTY DEPARTMENT OF
PUBLIC WORK SOFT-BOTTOM CHANNELS**

MEMORANDUM

October 14, 2022

To: Ahmet Tatlıoğlu
Los Angeles County Flood Control District
Stormwater Maintenance Division

From: Marc Blain
Psomas

Subject: Unarmored Threespine Stickleback 2022-2023 Pre-Clearing Presence/Absence Survey Results for 27 Los Angeles County Department of Public Works Soft-Bottom Channels

INTRODUCTION

In accordance with Special Conditions of the U.S. Army Corps of Engineers Nationwide Permit (SPL-2013-00723-BLR), and the California Department of Fish and Wildlife Streambed Alteration Agreement (SAA-1600-1999-0016-R5), visual surveys for unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*) (UTS) were conducted in 2022 in drainages identified as supporting potentially suitable habitat. Pre-clearing presence/absence and focused protocol surveys for Threatened and Endangered species are conducted on a regular basis at selected soft-bottom channel (SBC) reaches maintained by the Los Angeles County Department of Public Works (LACDPW). The list of reaches for which surveys are recommended is updated periodically during annual biological monitoring and periodic habitat assessments.

Pre-clearing presence/absence surveys for UTS have been conducted within LACDPW SBC channels annually since 2005. Prior to 2014, when UTS became a State Fully Protected species, focused surveys were conducted using the seining (netting) method; survey results were conclusive with the species either present or absent. After 2014, surveys have been conducted using the visual method because handling of the UTS is no longer permitted; three survey results are possible: (1) species present; (2) species absent; or (3) species possibly present (inconclusive). In cases where potentially suitable habitat is not 100% visible, UTS is considered possibly present, and monitoring is required during clearing activities. This memo describes the methods and results of pre-construction visual surveys for UTS conducted in 27 SBC reaches within the Santa Clara River watershed in 2022.

SPECIES BACKGROUND

UTS is a small fish requiring shallow, slow, marginal stream flows with abundant aquatic vegetation for cover. They can be found throughout a given stream of suitable habitat but tend to mill in areas of slow flow or standing water, such as within eddies behind obstructions or in edgewater where vegetation slows the stream flow. Under optimal conditions, several hundred UTS can exist within approximately 30 feet of a stream. While strong storm flows can severely reduce localized populations due to washing downstream, as the stream stabilizes in the spring, UTS can quickly recover by recolonizing and reproducing. UTS use backwater habitats in the Santa Clara River as refugia during storm events.

Two features of UTS habitat appear to be essential for the survival of fry and juveniles; (1) slow flowing, clear water for the proper development of the eggs; any form of pollution or small amounts of turbidity interfere with normal development and (2) aquatic vegetation along the edge of the shoreline to supply cover and microscopic food organisms for the fry (Ono et al. 1983). While UTS rely upon a wide variety of foods, they prefer insects and some snails in their diet.

The USFWS has not designated Critical Habitat for the UTS, however, the UTS Recovery Plan (USFWS 1985), defines critical habitat for federally listed species generally as: (1) the specific areas within the geographic area occupied by a species, at the time it is listed in accordance with the Endangered Species

Ahmet Tatlioglu
October 14, 2022
Page 2

Act of 1973 as amended, on which are found those physical or biological features (a) essential to the conservation of the species and (b) that may require special management considerations or protection and (2) specific areas outside the geographic area occupied by a species at the time it is listed, upon a determination that such areas are essential for the conservation of the species (45 Federal Register 76012-76015). “Conservation” means the use of all methods and procedures that are necessary to bring an Endangered or a Threatened species to the point at which listing under the Act is no longer necessary (USFWS 1998).

Three Essential Habitat zones within the Santa Clara River watershed are described under the Unarmored Threespine Stickleback Revised Recovery Plan (USFWS 1985):

1. **Del Valle Zone.** An area of land and water with the following components: Santa Clara River beginning at its confluence with San Martinez Grande Canyon, at a point 0.9 of a mile southwest of Del Valle settlement, and extending upstream approximately 5.6 miles to the Interstate Highway 5 Bridge.
2. **San Francisquito Creek Zone.** An area of land and water with the following components: San Francisquito Canyon watercourse beginning at a point where the Angeles National Forest boundary intersects the San Francisquito Canyon watercourse, approximately 2.5 miles southwest of San Francisquito Powerhouse No. 2, and extending upstream in San Francisquito Canyon approximately 8.4 miles to San Francisquito Powerhouse No. 1, near its junction with Clearwater Canyon.
3. **Soledad Canyon Zone.** An area of land and water in Los Angeles County, with the following components: Santa Clara River beginning at a point 1.4 miles upstream in Soledad Canyon from the community of Lang, at the downstream end of the area called River’s End Park extending upstream approximately 8.5 miles to its confluence with Arrastre Canyon, at a point located about 0.6 mile southwest of Los Angeles County Rehabilitation Camp, upstream in Arrastre Canyon approximately 0.8 mile.

METHODS

Pre-clearing visual surveys for UTS were conducted by a fisheries biologist that holds a Section 10(a)(1)(A) permit (Scientific Permit) at the following 27 SBC reaches:

- Santa Clara River: Reaches 47, 51, 54, 55, 56, 58, 60, 61, 63, 64, 66, 71, 82, and 109
- Bouquet Canyon Creek: Reaches 67, 69, 70, and 103
- South Fork Santa Clara River: Reaches 79 and 80, at the confluence of the Santa Clara and South Fork Santa Clara Rivers
- Castaic Creek: Reaches 86, 87, 97, and 104
- San Francisquito Creek: Reaches 105 and 121
- Jakes Way Channel: Reach 120

Surveys were conducted by SRMA Fisheries biologist Kerwin Russell and Psomas biologist Trevor Bristle on August 15, 2022. All surveys were conducted during appropriate weather conditions for good visibility (Temperatures ranged from 70° F to 95° F with wind speeds at 1-2 mph and clear sky conditions). No seining or handling of the UTS was conducted during the surveys. Each reach was visited to assess the suitability of habitat present. If potentially suitable habitat was present, the water was

Ahmet Tatlioglu
 October 14, 2022
 Page 3

scanned visually by the fisheries biologist to determine whether UTS was present or absent. In cases where potentially suitable habitat was not 100% visible, UTS would be considered possibly present. Photos were taken of different reaches to represent the surveyed conditions as a whole (Exhibit 1a and Exhibit 1b).

RESULTS

Table 1 shows results of the 2022 pre-clearing visual surveys, in comparison to previous survey results. UTS was determined to be absent from all 27 reaches during these surveys.

During the reach assessments, it was observed that most reaches had water that was either too shallow, or had water temperatures that during midday, reached a point which was not suitable for UTS. The average temperature was around 75° F with a high temperature of 87° F at Reach 103.

During the surveys, only one aquatic species was observed: Reach 87 contained the pacific tree frog (*Pseudacris hypochondriaca hypochondriaca*).

**TABLE 1
 SUMMARY OF 2022-2023 RESULTS OF PRE-CLEARING UNARMORED THREESPINE
 STICKLEBACK SURVEYS FOR THE
 LOS ANGELES COUNTY SOFT-BOTTOM CHANNELS**

Reach Number	Reach Name/Tributary	Survey Date	2022-2023 Unarmored Threespine Stickleback Results	Prior Presence (Year) ^a
Santa Clara River (SCR)				
47	SCR (PD 1733 Unit 1)	8/15/2022	Absent	–
51	Mint Canyon Main Channel Outlet (PD 1984) at SCR Main Channel	8/15/2022	Absent	–
54	SCR Non-main Channel (PD 832)	8/15/2022	Absent	–
55	SCR Channel (PDs 910, 832, 1758, and 1562 Unit 2)	8/15/2022	Absent	–
56	SCR (PD 1562 Unit 2)	8/15/2022	Absent	–
58	SCR (PD 374)	8/15/2022	Absent	–
60	SCR (PD 1339 and 374)	8/15/2022	Absent	–
61	SCR (PD 659)	8/15/2022	Absent	–
63	Oak Avenue Rd Drainage (CDR 523.081)	8/15/2022	Absent	–
64	Soledad Canyon Rd Drainage (CDR 523.071 D Outlet)	8/15/2022	Absent	2015 ^b
66	SCR (PD 1358)	8/15/2022	Absent	–
67	Bouquet Canyon Upper (PDs 1201, 802, 700B and 625)	8/15/2022	Absent	2005, 2006, 2007, 2008, 2015 ^b , 2016 ^b , 2017 ^b and 2018 ^b
69	Bouquet Canyon Middle (PDs 722, 773, 1365, 1065 and 45)	8/15/2022	Absent	2005, 2006, 2007, 2008, 2012, 2015 ^b , 2016 ^b , and 2017 ^b

**TABLE 1
 SUMMARY OF 2022-2023 RESULTS OF PRE-CLEARING UNARMORED THREESPINE
 STICKLEBACK SURVEYS FOR THE
 LOS ANGELES COUNTY SOFT-BOTTOM CHANNELS**

Reach Number	Reach Name/Tributary	Survey Date	2022-2023 Unarmored Threespine Stickleback Results	Prior Presence (Year)^a
70	Bouquet Canyon Lower (PDs 544 and 345)	8/15/2022	Absent	–
71	SCR Main Channel (PD 1946)	8/15/2022	Absent	–
79	South Fork SCR Valencia Blvd Bridge Stabilizer	8/15/2022	Absent	–
80	South Fork SCR (PDs 1947 and 1946)	8/15/2022	Absent	–
82	SCR Main Channel (PD 2278)	8/15/2022	Absent	–
86	Violin Canyon Main Channel Outlet	8/15/2022	Absent	–
87	Castaic Old Road Drain (CDR 525.021D) Outlet	8/15/2022	Absent	–
97	Castaic Creek (PD 1982)	8/15/2022	Absent	–
103	Bouquet Canyon Channel (PD 2225)	8/15/2022	Absent	2005, 2006, 2007, 2008, 2015 ^b , and 2016 ^b
104	Castaic Creek (PD 2441 Unit 2)	8/15/2022	Absent	–
105	San Francisquito Channel (PD 2456)	8/15/2022	Absent	2015 ^b , 2016 ^b
109	SCR south bank west of McBean Pkwy (MTD 1510)	8/15/2022	Absent	2009, 2010, 2011, and 2015 ^b
120	Jake's Way Channel (PD 2496)	8/15/2022	Absent	–
121	San Francisquito Canyon Channel (PD 2271)	8/15/2022	Absent	–
^a Sources: BonTerra; 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2013; BonTerra Psomas: 2014, 2016, 2017, 2018; Psomas 2019, 2020, and 2021. Note: no survey report or memorandum was generated for the 2015 presence/absence surveys, however, a Pre-Clearing Status Update table was created and shared with LACDPW and information in it was used for this table. ^b Species may occur.				

Ahmet Tatilioglu
October 14, 2022
Page 5

CONCLUSION

As a result of these surveys, and in accordance with Special Conditions of the U.S. Army Corps of Engineers Nationwide Permit and the California Department of Fish and Wildlife Streambed Alteration Agreement, biological monitoring is not warranted at any of the 27 reaches for unarmored three-spine stickleback during the 2022-2023 SBC maintenance season.

Enclosures: Exhibit 1a – Reach 54 and 67 Representative Site Photos
Exhibit 1b – Reach 86 and 109 Representative Site Photos

R:\Projects\DPW\3DPW\153601\Documentation\UTS\2022 UTS Memo_SBC Reaches-101422.docx

REFERENCES

Psomas. 2021 (October). *2021 Unarmored Threespine Stickleback Pre-Clearing Presence/Absence Survey Results for 27 Los Angeles County Department of Public Works Soft-Bottom Channels*. Pasadena, CA: BonTerra Psomas.

———. Psomas. 2020 (September). *2020 Unarmored Threespine Stickleback Pre-Clearing Presence/Absence Survey Results for 27 Los Angeles County Department of Public Works Soft-Bottom Channels*. Pasadena, CA: BonTerra Psomas.

———. Psomas. 2019 (October). *2019 Unarmored Threespine Stickleback Pre-Clearing Presence/Absence Survey Results for 27 Los Angeles County Department of Public Works Soft-Bottom Channels*. Pasadena, CA: Psomas.

BonTerra Psomas. 2018 (December). *2018 Unarmored Threespine Stickleback Pre-Clearing Presence/Absence Survey Results for 26 Los Angeles County Department of Public Works Soft-Bottom Channels*. Pasadena, CA: BonTerra Psomas.

———. 2017 (December). *2017 Unarmored Threespine Stickleback Pre-Clearing Presence/Absence Survey Results for 26 Los Angeles County Department of Public Works Soft-Bottom Channels*. Pasadena, CA: BonTerra Psomas.

———. 2016. *2016 Unarmored Threespine Stickleback Pre-Clearing Presence/Absence Survey Results for 26 Los Angeles County Department of Public Works Soft-Bottom Channels*. Pasadena, CA: BonTerra Psomas.

———. 2014 (Revised May). *2013 Focused Survey Results: Los Angeles County Soft-Bottom Channels*. Pasadena, CA: BonTerra Psomas.

BonTerra Consulting. 2013 (February). *2012 Focused Survey Results: Los Angeles County Soft-Bottom Channels*. Pasadena, CA: BonTerra Consulting.

———. 2011 (August). *2011 Focused Survey Results: Los Angeles County Soft Bottom Channels*. Pasadena, CA: BonTerra Consulting.

Ahmet Tatilioglu
 October 14, 2022
 Page 6

———. 2010 (October). *Los Angeles County Soft Bottom Channels: 2010 Focused Survey Results*. Pasadena, CA: BonTerra Consulting.

———. 2009 (November). *2009 Focused Survey Results: Los Angeles County Soft-Bottom Channels*. Pasadena, CA: BonTerra Consulting.

———. 2008 (October). *Los Angeles County Soft Bottom Channels: 2008 Focused Survey Results*. Pasadena, CA: BonTerra Consulting.

———. 2007 (November). *Los Angeles County Soft Bottom Channels: 2007 Focused Survey Results*. Pasadena, CA: BonTerra Consulting.

———. 2006 (October). *Los Angeles County Soft Bottom Channels: 2006 Focused Survey Results*. Pasadena, CA: BonTerra Consulting.

———. 2005 (August). *Los Angeles County Soft Bottom Channels: 2005 Focused Survey Results*. Pasadena, CA: BonTerra Consulting.

Ono, R.D., J.D. Williams, and A. Wagner. 1983. *Vanishing Fishes of North America*. Washington, D.C.: Stone Wall Press.

U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS). 1998 (March). *Endangered Species Consultation Handbook: Procedures for Conducting Consultation and Conference Activities Under Section 7 of the Endangered Species Act*. Washington, D.C.: USFWS and NMFS. http://www.fws.gov/endangered/esa-library/pdf/esa_section7_handbook.pdf.

U. S. Fish and Wildlife Service (USFWS). 1985. Unarmored threespine stickleback recovery plan (revised). U. S. Fish and Wildlife Service, Portland, Oregon. 80 pp.



View of the center portion of Reach 54 facing upstream (southeast); showing clear water with algae mat on the channel bottom, and sparse vegetation growing in the upstream dry portion of the channel. Current conditions in this Reach are not suitable for UTS.



View of the downstream portion of Reach 67 facing downstream (southwest); showing cloudy pooled water with miscellaneous trash, rip-rap, and riparian vegetation such as sandbar willow and cattails. Current conditions in this Reach are not suitable for UTS.

Reach 54 and 67 Representative Site Photos

Exhibit 1a

Unarmored Threespine Stickleback Pre-Clearing Presence/Absence Surveys





View of the upstream portion of Reach 86 facing downstream (southeast); showing clear water with an algae mat on bottom of channel and adjacent herbaceous vegetation such as common sunflower, white sweetclover, and cheat grass. Current conditions in this Reach are not suitable for UTS.



View of the upstream portion of Reach 109 facing upstream (southeast); showing pooled water with poor water quality conditions such as white foam, trash, and dissolved solids creating a cloudy appearance. Current conditions in this Reach are not suitable for UTS.

Reach 86 and 109 Representative Site Photos

Exhibit 1b

Unarmored Threespine Stickleback Pre-Clearing Presence/Absence Surveys



[This page is intentionally left blank]

ATTACHMENT NO. 5
2022-23 SOFT-BOTTOM CHANNEL PRE- AND
POST-MAINTENANCE PHOTOS

[This page is intentionally left blank]

2022-2023 Soft Bottom Channels

Reach 1

Bell Creek — MTD 963 M.C.I.

Before Photos 8/22/22



After Photos 3/6/23



2022-2023 Soft Bottom Channels

Reach 2

Dry Canyon (Calabasas) P.D. T1845

Before Photos 8/22/22

After Photos 1/7/23



2022-2023 Soft Bottom Channels

Reach 3

Santa Susana Creek M.C.I.

Before Photos 8/16/22



After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 4

Browns Creek

Before Photos 8/16/22

After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 5

Caballero Creek M.C.I. (West Fork)

Before Photos 8/20/22

After Photos 3/25/23



2022-2023 Soft Bottom Channels

Reach 6

Caballero Creek M.C.I. (East Fork)

Before Photos 8/20/22



After Photos 3/25/23



2022-2023 Soft Bottom Channels

Reach 7

Bull Creek M.C.O.

NO WORK DONE

Before Photo 8/17/22



2022-2023 Soft Bottom Channels

Reach 8

Hayvenhurst Drain — Project 470 Outlet

Before Photos 8/16/22



After Photos 3/6/23



2022-2023 Soft Bottom Channels

Reach 9

Project 106 Outlet

Before Photos 8/16/22

After Photos 11/4/22



2022-2023 Soft Bottom Channels

Reach 10

Project No. 469

Before Photos 8/16/22

After Photos 11/4/22



2022-2023 Soft Bottom Channels

Reach 10

Project No. 469

Before Photos 8/16/22



After Photos 11/4/22



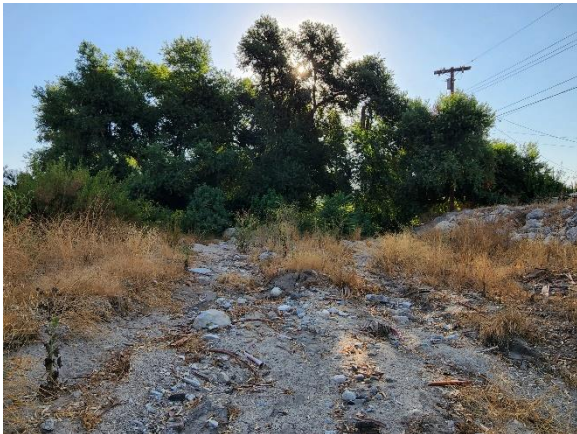
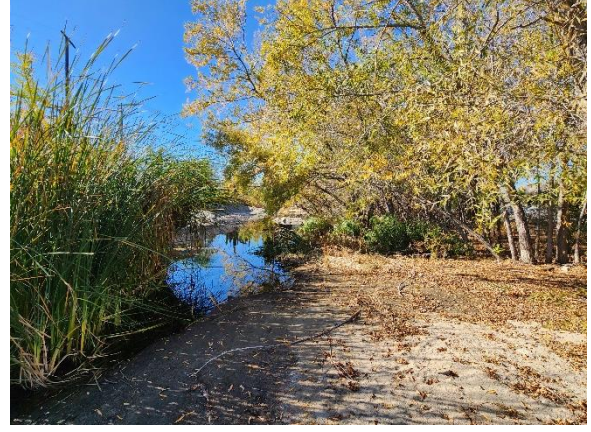
2022-2023 Soft Bottom Channels

Reach 12

Los Angeles River

Before Photos 8/25/22

After Photos 12/8/22



2022-2023 Soft Bottom Channels

Reach 13

Project No. 5215 Unit 1

Before Photos 08/25/22

After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 14

May Channel (M.C.O. into Pacoima Canyon)

Before Photos 08/29/22

After Photos 12/8/22



2022-2023 Soft Bottom Channels

Reach 15

Pacoima Wash

Before Photos 8/16/22

After Photos 11/4/22



2022-2023 Soft Bottom Channels

Reach 15

Pacoima Wash

Before Photos 8/16/22

After Photos 11/4/22



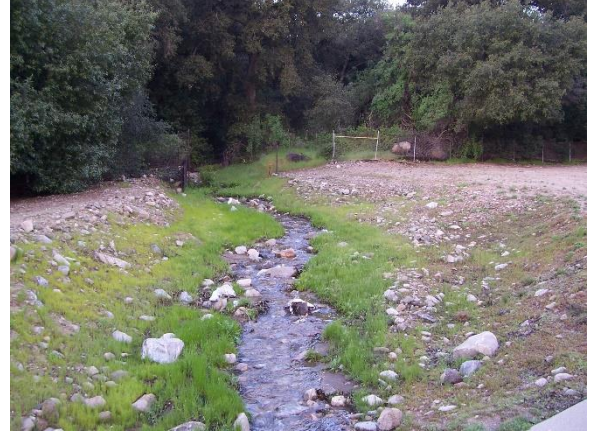
2022-2023 Soft Bottom Channels

Reach 16

Verdugo Wash — Las Barras Canyon (Channel Inlet)

Before Photos 8/17/22

After Photos 3/24/23



2022-2023 Soft Bottom Channels

Reach 18

Engleheard Channel

Before Photos 8/17/22

After Photos 3/24/23



2022-2023 Soft Bottom Channels

Reach 19

Pickens Canyon

Before Photos 8/17/22

After Photos 3/11/23



2022-2023 Soft Bottom Channels

Reach 20

Webber Channel (Storm at Private Bridge)

Before Photos 8/17/22

After Photos 3/24/23



2022-2023 Soft Bottom Channels

Reach 21

Webber Channel (Main Channel Inlet d/s Bridge)

Before Photos 8/17/22

After Photos 03/24/23



2022-2023 Soft Bottom Channels

Reach 22

Halls Canyon

Before Photos 8/17/22

After Photos 3/24/23



2022-2023 Soft Bottom Channels

Reach 24

Compton Creek

Before Photos 8/22/22

After Photos 11/19/22



2022-2023 Soft Bottom Channels

Reach 24

Compton Creek

Before Photos 8/22/22

After Photos 11/19/22



2022-2023 Soft Bottom Channels

Reach 25a

Los Angeles River — Willow to PCH (East/Left Bank)

Before Photos 8/18/22

After Photos 11/18/22



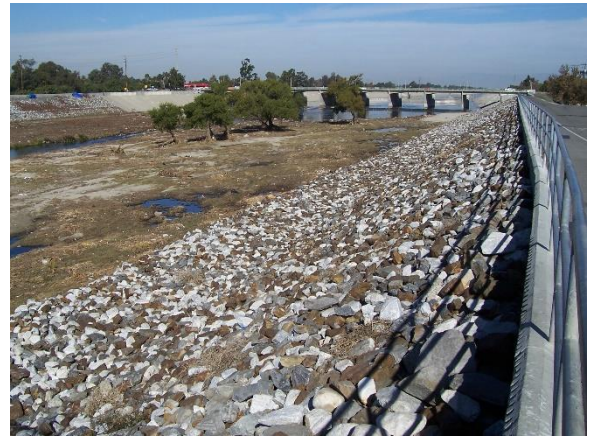
2022-2023 Soft Bottom Channels

Reach 25a

Los Angeles River — Willow to PCH (East/Left Bank)

Before Photos 8/18/22

After Photos 11/18/22



2022-2023 Soft Bottom Channels

Reach 25b

Los Angeles River — Willow to PCH (West/Right Bank)

Before Photos 8/18/22

After Photos 11/18/22



2022-2023 Soft Bottom Channels

Reach 25b

Los Angeles River — Willow to PCH (West/Right Bank)

Before Photos 8/18/22

After Photos 11/18/22



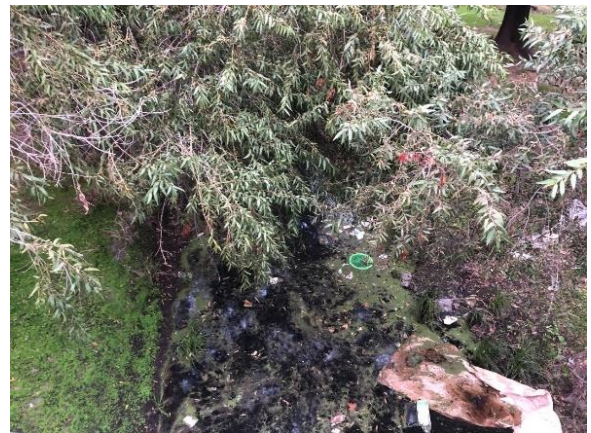
2022-2023 Soft Bottom Channels

Reach 26

Project 740

Before Photos 8/22/22

After Photos 11/19/22



2022-2023 Soft Bottom Channels

Reach 26

Project 740

Before Photos 8/22/22

After Photos 11/19/22



2022-2023 Soft Bottom Channels

Reach 27

Wilmington Drain (110 Freeway to s/o PCH)

Before Photos 8/26/22

After Photos 10/7/22



2022-2023 Soft Bottom Channels

Reach 27

Wilmington Drain (110 Freeway to s/o PCH)

Before Photos 8/26/22

After Photos 10/7/22



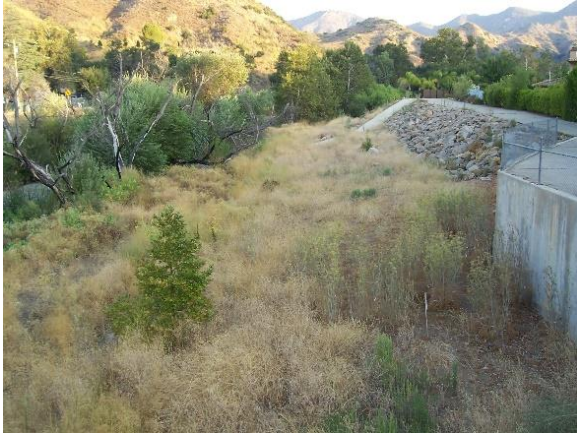
2022-2023 Soft Bottom Channels

Reach 28

Triunfo Creek (P.D. T2200)

Before Photos 8/20/22

After Photos 3/6/23



2022-2023 Soft Bottom Channels

Reach 29

Las Virgenes Creek (P.D. T1684) M.C.I.

Before Photos 8/20/22

After Photos 3/25/23



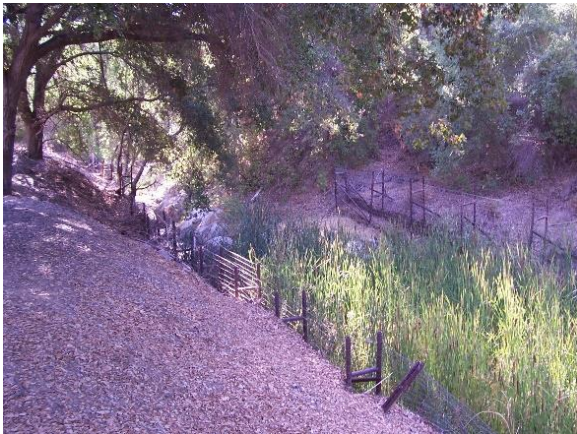
2022-2023 Soft Bottom Channels

Reach 32

Stokes Canyon Channel (P.D. T043)

Before Photos 8/20/22

After Photos 1/7/23



2022-2023 Soft Bottom Channels

Reach 32

Stokes Canyon Channel (P.D. T043)

Before Photos 8/20/22



After Photos 1/7/23



2022-2023 Soft Bottom Channels

Reach 33

Medea Creek (P.D. T1378 U.2)

Before Photos 8/20/22

After Photos 3/25/23



2022-2023 Soft Bottom Channels

Reach 35

Medea Creek Main Channel Inlet — Under Route 101

Before Photos 8/20/22

After Photos 3/6/23



2022-2023 Soft Bottom Channels

Reach 36

Cheseboro Main Channel Inlet

Before Photos 8/20/22



After Photos 3/5/23



2022-2023 Soft Bottom Channels

Reach 37

Medea Creek/Cheseboro Creek Outlet

Before Photos 8/20/22

After Photos 3/6/23



2022-2023 Soft Bottom Channels

Reach 38

Lindero Main Channel Outlet

Before Photos 8/20/22



After Photos 3/6/23



2022-2023 Soft Bottom Channels

Reach 39

Beatty Channel Outlet at SGR 25+99.00

Before Photos 8/17/22

After Photos 3/14/23



2022-2023 Soft Bottom Channels

Reach 39

Beatty Channel Outlet at SGR 25+99.00

Before Photos 8/17/22



After Photos 3/14/23



2022-2023 Soft Bottom Channels

Reach 40a

San Gabriel River — Santa Fe Dam to I-10 Freeway

Before Photos 8/16/22

After Photos 3/6/23



2022-2023 Soft Bottom Channels

Reach 40a

San Gabriel River — Santa Fe Dam to I-10 Freeway

Before Photos 8/16/22

After Photos 3/6/23



2022-2023 Soft Bottom Channels

Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/16/22

After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/16/22

After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/16/22

After Photos 3/31/23



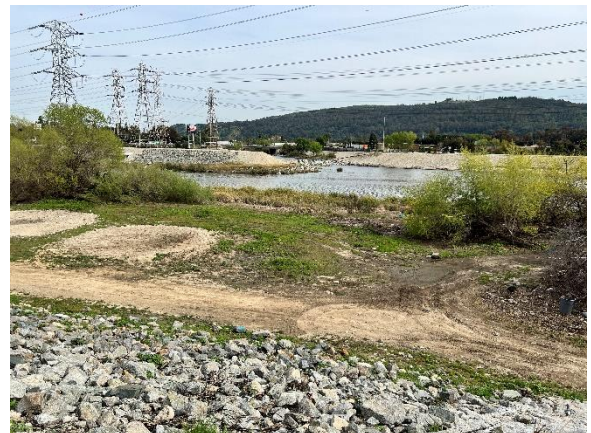
2022-2023 Soft Bottom Channels

Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/16/22

After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 41

Walnut Creek — Baldwin Park to San Gabriel River

Before Photos 8/19/22

After Photos 3/24/23



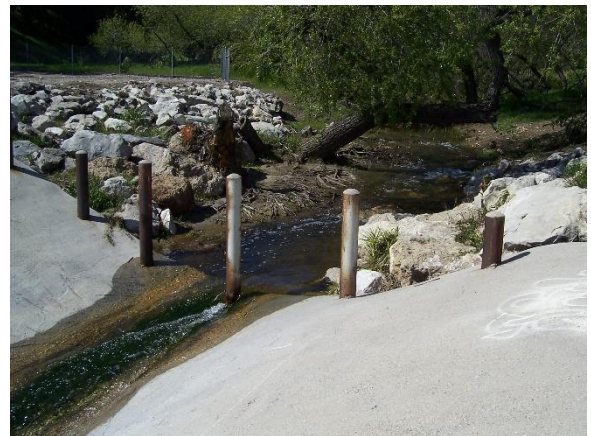
2022-2023 Soft Bottom Channels

Reach 42

San Jose Creek d/s 1000 feet from end of concrete channel

Before Photos 8/19/22

After Photos 3/24/23



2022-2023 Soft Bottom Channels

Reach 43a

San Gabriel River — Upper

Before Photos 8/17/22

After Photos 10/31/22



2022-2023 Soft Bottom Channels

Reach 43a

San Gabriel River — Upper

Before Photos 8/17/22

After Photos 10/31/22



2022-2023 Soft Bottom Channels

Reach 43b

San Gabriel River — Lower

Before Photos 8/17/22

After Photos 10/31/22



2022-2023 Soft Bottom Channels

Reach 43b

San Gabriel River — Lower

Before Photos 8/17/22



After Photos 10/31/22



2022-2023 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/16/22



After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/16/22



After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/16/22

After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/16/22



After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/16/22



After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 47

Santa Clara River Main Channel (P.D. T1733-Unit 1)

Before Photos 8/31/22

After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 47

Santa Clara River Main Channel (P.D. T1733-Unit 1)

Before Photos 8/31/22

After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 48

Mint Canyon Channel between Sierra Highway & Adon Avenue

Before Photos 8/23/22

After Photos 3/14/23



2022-2023 Soft Bottom Channels

Reach 49

Mint Canyon Channel between Adon Avenue & Scherzinger Lane

Before Photos 8/23/22

After Photos 3/14/23



2022-2023 Soft Bottom Channels

Reach 51

Mint Canyon M.C.O. (P.D. 1894)/Santa Clara River — Main Channel

NO WORK DONE

Before Photos 8/25/22



2022-2023 Soft Bottom Channels

Reach 53

Santa Clara River Non-Main Channel (P.D. 832) Main Channel Inlet

Before Photos 8/24/22

After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 54

Santa Clara River Non-Main Channel (P.D. 832) Main Outlet Channel

Before Photos 8/25/22

After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/25/22

After Photos 12/8/22



2022-2023 Soft Bottom Channels

Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/25/22

After Photos 12/8/22



2022-2023 Soft Bottom Channels

Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/25/22



After Photos 12/8/22



2022-2023 Soft Bottom Channels

Reach 56

Santa Clara River Main Channel — Left Bank Reach (P.D. 832)

Before Photos 8/30/22

After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 58 (combined with Reach 59)

Santa Clara River Main Channel — Right Bank Reach (P.D. 374)

Before Photos 8/25/22

After Photos 12/8/22



2022-2023 Soft Bottom Channels

Reach 58 (combined with Reach 59)

Santa Clara River Main Channel — Right Bank Reach (P.D. 374)

Before Photos 8/25/22

After Photos 12/8/22



2022-2023 Soft Bottom Channels

Reach 60

Santa Clara River Main Channel — Right Bank Reach (P.D.'s 1339 and 374)

Before Photos 8/25/22

After Photos 12/8/22



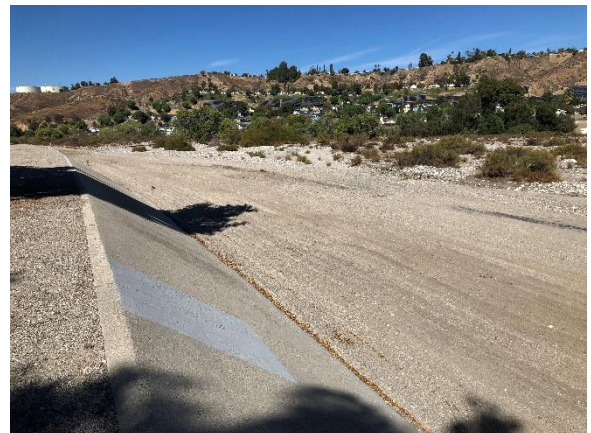
2022-2023 Soft Bottom Channels

Reach 61 (combined with Reach 62)

Santa Clara River Main Channel (P.D.'s 659 and 754)

Before Photos 8/23/22

After Photos 10/26/22



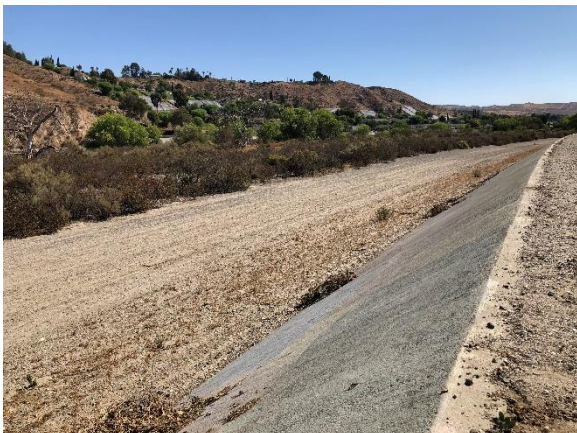
2022-2023 Soft Bottom Channels

Reach 61 (combined with Reach 62)

Santa Clara River Main Channel (P.D.'s 659 and 754)

Before Photos 8/23/22

After Photos 10/26/22



2022-2023 Soft Bottom Channels

Reach 63

Oak Avenue Road Drainage (CDR 523.081)

Before Photos 8/25/22

After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 64

Soledad Canyon Road Drainage (CDR 523.071 D Outlet)

Before Photos 8/25/22

After Photos 3/31/23



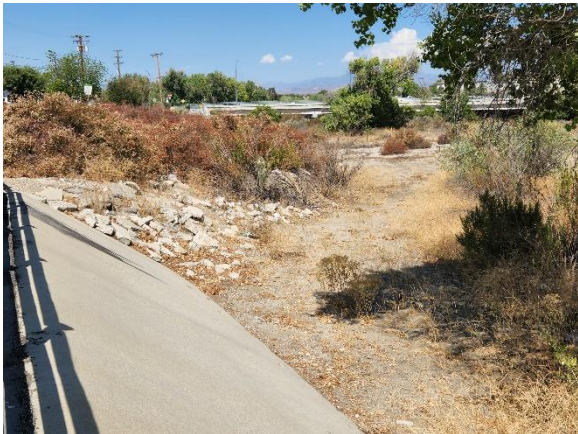
2022-2023 Soft Bottom Channels

Reach 66

Santa Clara River Main Channel (P.D. 1538)

Before Photos 8/25/22

After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 67

Bouquet Canyon Upper (P.D.'s 1201, 802, 700B, and 625)

Before Photos 8/22/22

After Photos 10/26/22



2022-2023 Soft Bottom Channels

Reach 69

Bouquet Canyon Middle (P.D.'s 722, 773, 1365, 1065, and 451)

Before Photos 8/25/22

After Photos 12/8/22



2022-2023 Soft Bottom Channels

Reach 70

Bouquet Canyon Lower (P.D.'s 544 and 345)

Before Photos 8/22/22

After Photos 10/26/22



2022-2023 Soft Bottom Channels

Reach 70

Bouquet Canyon Lower (P.D.'s 544 and 345)

Before Photos 8/22/22

After Photos 10/26/22



2022-2023 Soft Bottom Channels

Reach 71

Santa Clara River Main Channel (P.D. 1946)

Before Photos 8/15/22

After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 72

South Fork — SCR (Smizer Ranch Main Channel Inlet)

Before Photos 8/25/22

After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 73

Wildwood Canyon Channel (P.D. T361) Main Channel Inlet

Before Photos 8/19/22



After Photos 3/14/23



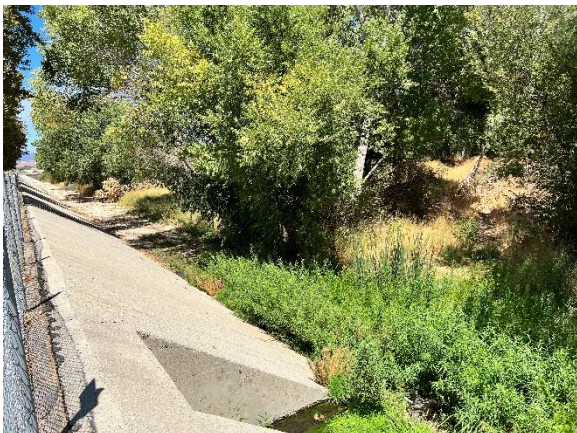
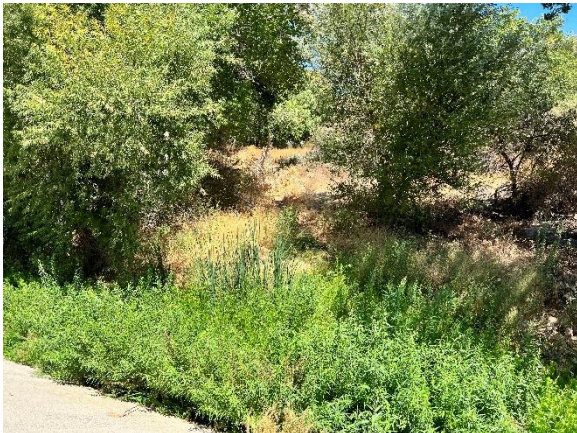
2022-2023 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/19/22

After Photos 10/27/22



2022-2023 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/19/22

After Photos 10/27/22



2022-2023 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/19/22

After Photos 10/27/22



2022-2023 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/19/22

After Photos 10/27/22



2022-2023 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/19/22



After Photos 10/27/22



2022-2023 Soft Bottom Channels

Reach 76

Pico Canyon (P.D. 813)

Before Photos 8/15/22

After Photos 11/4/22



2022-2023 Soft Bottom Channels

Reach 77

Newhall Creek Outlet

Before Photos 8/15/22

After Photos 11/3/22



2022-2023 Soft Bottom Channels

Reach 78

Placerita Creek

Before Photos 8/15/22



After Photos 11/4/22



2022-2023 Soft Bottom Channels

Reach 79

South Fork — Santa Clara River (Valencia Boulevard Bridge Stabilizer)

Before Photos 8/25/22

After Photos 10/26/22



2022-2023 Soft Bottom Channels

Reach 80

South Fork — Santa Clara River (P.D.'s 1947 and 1946)

Before Photos 8/22/22

After Photos 10/26/22



2022-2023 Soft Bottom Channels

Reach 80

South Fork — Santa Clara River (P.D.'s 1947 and 1946)

Before Photos 8/22/22

After Photos 10/26/22



2022-2023 Soft Bottom Channels

Reach 82

Santa Clara River Main Channel (P.D. 2278)

Before Photos 8/22/22

After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 82

Santa Clara River Main Channel (P.D. 2278)

Before Photos 8/22/22



After Photos 11/10/22



2022-2023 Soft Bottom Channels

Reach 86

Violin Canyon Main Channel Outlet

Before Photos 8/15/22



After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 87

Castaic — Old Road Drainage (CDR 525.021D) Outlet

Before Photos 8/15/22



After Photos 11/4/22



2022-2023 Soft Bottom Channels

Reach 88

Hasley Canyon Upper (P.D. T1496)

Before Photos 8/15/22

After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 89

Hasley Canyon South Fork (P.D. T1496)

Before Photos 8/15/22



After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 90

Hasley Canyon Lower (North Fork P.D. T1496)

Before Photos 8/15/22

After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 91

San Martinez Chiquito Canyon Channel u/s of Keningston Road

Before Photos 8/15/22

After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 92

San Martinez Chiquito Canyon (North Fork) Unnamed

Before Photos 8/15/22

After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 93

San Martinez Chiquito Canyon between Kenningston Road and Val Verde Park

Before Photos 8/15/22

After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 94

San Martinez Chiquito Canyon between Val Verde Park and d/s of Madison Street

Before Photos 8/15/22

After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 94

San Martinez Chiquito Canyon between Val Verde Park and d/s of Madison Street

Before Photos 8/15/22



After Photos 11/14/22



2022-2023 Soft Bottom Channels

Reach 95

Project No. 1224

Before Photos 8/15/22

After Photos 3/31/23



2022-2023 Soft Bottom Channels

Reach 95

Project No. 1224

Before Photos 8/15/22



After Photos 3/31/23



2022-2023 Soft Bottom Channels

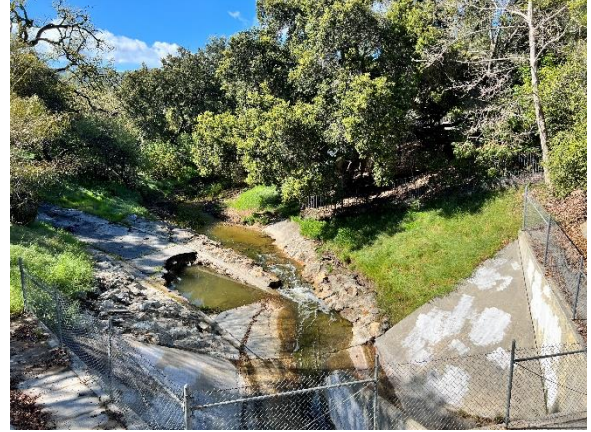
Reach 96

PD 1591, Calabasas

Before Photos 8/24/22



After Photos 3/31/23



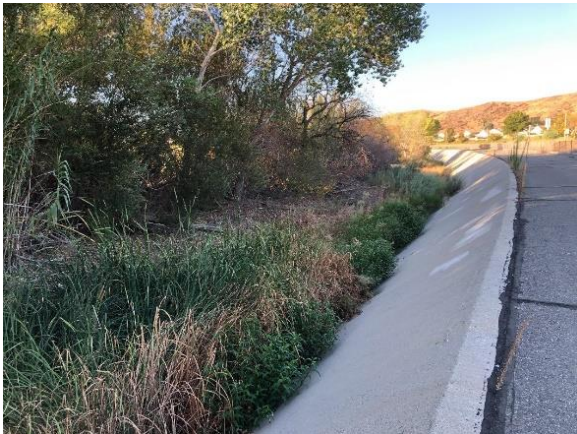
2022-2023 Soft Bottom Channels

Reach 97

P.D. T1982, Castaic Creek

Before Photos 8/15/22

After Photos 11/4/22



2022-2023 Soft Bottom Channels

Reach 98

Walnut Creek — Channel Inlet

Before Photos 8/17/22

After Photos 10/31/22



2022-2023 Soft Bottom Channels

Reach 99

Kagel Canyon — Tujunga Wash

Before Photos 8/17/22

After Photos 6/8/23



2022-2023 Soft Bottom Channels

Reach 99

Kagel Canyon — Tujunga Wash

Before Photos 8/17/22

After Photos 6/8/23



2022-2023 Soft Bottom Channels

Reach 100

Dry Canyon, Calabasas Creek Inlet

Before Photos 8/20/22

After Photos 1/12/23



2022-2023 Soft Bottom Channels

Reach 101

Violin Canyon (P.D. 2312)

NO WORK DONE

Photos 8/18/22



2022-2023 Soft Bottom Channels

Reach 101

Violin Canyon (P.D. 2312)

NO WORK DONE

Photos 8/18/22



2022-2023 Soft Bottom Channels

Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/18/22



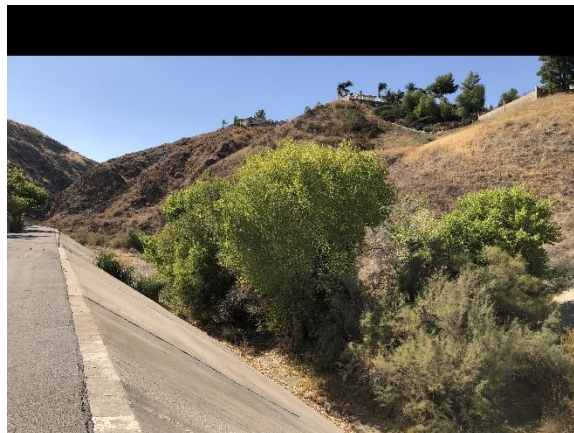
2022-2023 Soft Bottom Channels

Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/18/22



2022-2023 Soft Bottom Channels

Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/18/22



2022-2023 Soft Bottom Channels

Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE

Photos 8/15/22



2022-2023 Soft Bottom Channels

Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE

Photos 8/15/22



2022-2023 Soft Bottom Channels

Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE

Photos 8/15/22



2022-2023 Soft Bottom Channels

Reach 104

Castaic Creek (P.D. 2441 Unit 2)

NO WORK DONE

Photos 8/18/22



2022-2023 Soft Bottom Channels

Reach 104

Castaic Creek (P.D. 2441 Unit 2)

NO WORK DONE

Photos 8/18/22



2022-2023 Soft Bottom Channels

Reach 105

San Francisquito Canyon Channel (P.D. 2456)

NO WORK DONE

Photos 8/15/22



2022-2023 Soft Bottom Channels

Reach 105

San Francisquito Canyon Channel (P.D. 2456)

NO WORK DONE

Photos 8/15/22



2022-2023 Soft Bottom Channels

Reach 108

Pico Canyon (P.D. 2528)

Before Photos 8/18/22

After Photos 3/14/23



2022-2023 Soft Bottom Channels

Reach 108

Pico Canyon (P.D. 2528)

Before Photos 8/18/22

After Photos 3/14/23



2022-2023 Soft Bottom Channels

Reach 109

Santa Clara River — South Bank West of McBean Parkway (MTD1510)

NO WORK DONE

Photos 8/15/22



2022-2023 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/25/22



2022-2023 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/25/22



2022-2023 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/25/22



2022-2023 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/25/22



2022-2023 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/25/22



2022-2023 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/25/22



2022-2023 Soft Bottom Channels

Reach 112

Ballona Creek

Before Photos 8/22/22

After Photos 1/6/23



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**

2022-2023 Soft Bottom Channels

Reach 112

Ballona Creek

Before Photos 8/22/22

After Photos 1/6/23



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**

2022-2023 Soft Bottom Channels

Reach 112

Ballona Creek

Before Photos 8/22/22



After Photos 1/6/23



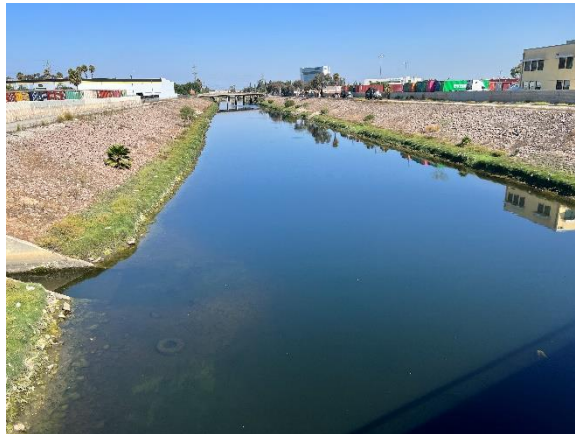
2022-2023 Soft Bottom Channels

Reach 113

Dominguez Channel

NO WORK DONE

Photos 8/19/22



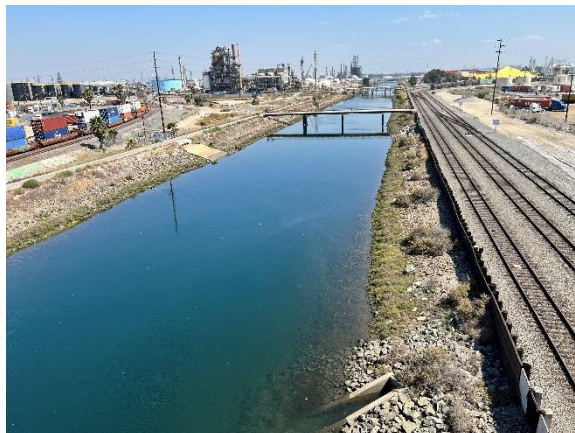
2022-2023 Soft Bottom Channels

Reach 113

Dominguez Channel

NO WORK DONE

Photos 8/19/22



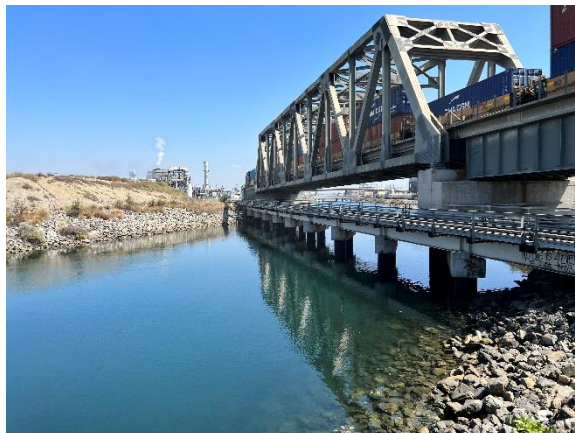
2022-2023 Soft Bottom Channels

Reach 113

Dominguez Channel

NO WORK DONE

Photos 8/19/22



2022-2023 Soft Bottom Channels

Reach 114

Los Angeles River

Before Photos 8/22/22

After Photos 3/31/23



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**



2022-2023 Soft Bottom Channels

Reach 114

Los Angeles River

Before Photos 8/22/22

After Photos 3/31/23



**NO WORK DONE
IN THIS AREA**

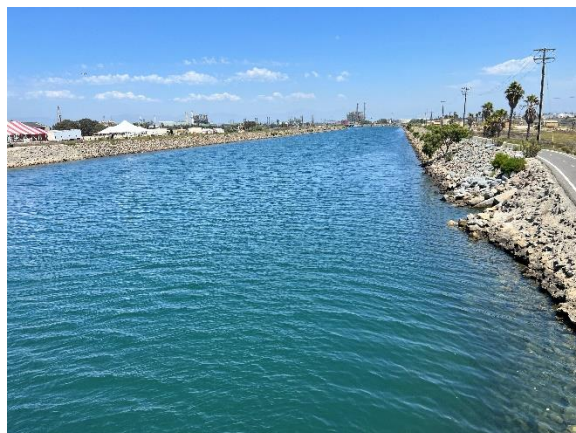
2022-2023 Soft Bottom Channels

Reach 115

San Gabriel River

NO WORK DONE

Before Photos 8/19/22



2022-2023 Soft Bottom Channels

Reach 115

San Gabriel River

NO WORK DONE

Before Photos 8/19/22



2022-2023 Soft Bottom Channels

Reach 115

San Gabriel River

NO WORK DONE

Before Photos 8/19/22



2022-2023 Soft Bottom Channels

Reach 118

Rustic Canyon

Before Photos 8/22/22

After Photos 10/13/22



2022-2023 Soft Bottom Channels

Reach 118

Rustic Canyon

Before Photos 8/22/22

After Photos 10/13/22



2022-2023 Soft Bottom Channels

Reach 119

Rivas Canyon Channel

Before Photos 8/22/22

After Photos 10/13/22



2022-2023 Soft Bottom Channels

Reach 119

Rivas Canyon Channel

Before Photos 8/22/22



After Photos 10/13/22



[This page is intentionally left blank]

ATTACHMENT NO. 6
WATER QUALITY MONITORING SUMMARY REPORTS

[This page is intentionally left blank]

**Los Angeles County Public Works
Soft Bottom Channels Annual Maintenance
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2022-2023)**

Ballona Creek Reach 112 North				
12/21/2022				
LATITUDE (approx.)	33.986765	33.984031	33.98031	Pre-Clearing/Baseline Isaac and Humberto arrived on-site at 10:20 to perform baseline water sampling at upstream, internal, and downstream points of Upper Ballona Creek/Reach 112 North Side. There is vegetation on the sides of the channel. There was a person bathing in the upstream portion of the sampling which may explain the high turbidity reading. Baseline was done seven (7) days prior to start date due. Between 1025 and 1105, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wed 12/21 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 12/22. From a water quality standpoint, project is "good to go" for Tuesday 12/27.
LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
ELEVATION (approx.)	6	6	6	
TIME	10:25	10:35	11:05	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	
TEMPERATURE (°C)	14.54	13.47	16.03	
pH	9.02	8.69	7.88	
TURBIDITY (NTUs)	1.37	1.21	1.26	
DISSOLVED O ₂ (mg/L)	9.95	9.76	9.18	
TOTAL SUSPENDED SOLIDS (mg/L)	5.2	9.6	17.8	
Ballona Creek Reach 112 North				
12/29/2022				
LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results For Thursday 12/29, 1st day of field work. Humberto arrived on-site at 1030 to perform water quality sampling and monitoring for Upper Ballona Creek Reach 112 (North). Private contractor was clearing vegetation along the channel. Between 1059 to 1118 collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 12/29 on 24-hour TAT. Results for TSS will be available Friday afternoon, 12/30. From a water quality standpoint, project is "good to go" for continuation on Friday 12/30.
LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
ELEVATION (approx.)	6	6	6	
TIME	10:59	11:10	11:18	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	
TEMPERATURE (°C)	13.59	13.69	13.89	
pH	9.05	8.9	7.91	
TURBIDITY (NTUs)	7.07	4.14	7.95	
DISSOLVED O ₂ (mg/L)	9.7	9.74	9.47	
TOTAL SUSPENDED SOLIDS (mg/L)	19.8	6.2	15.4	
Ballona Creek Reach 112 North				
12/30/2022				
LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results For Friday 12/30, 2nd day of field work. Humberto arrived on-site at 0930 to perform water quality sampling and monitoring for Upper Ballona Creek Reach 112 (North). Private contractor was clearing vegetation along the channel. Between 1058 to 1128 collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 12/30 on 24-hour TAT. Results for TSS will be available Saturday afternoon, 12/31. Turbidity was higher than the limit for the downstream, this may be due to rain, area should be closely monitored.
LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
ELEVATION (approx.)	6	6	6	
TIME	10:58	11:13	11:28	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	
TEMPERATURE (°C)	14.86	14.73	14.62	
pH	9.64	9.06	8.18	
TURBIDITY (NTUs)	1.47	1.5	3.08	
DISSOLVED O ₂ (mg/L)	9.9	9.73	9.16	
TOTAL SUSPENDED SOLIDS (mg/L)	6.4	ND	12.3	

Ballona Creek Reach 112 North				1/3/2023	
LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results	
LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	<p>For Tuesday 1/3/23 , 3rd day of field work. Garo arrived on-site at 1014 to perform water quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. Ocean Blue moved the BMP down south of the channel (photo attached). Private contractor continues to clear vegetation. Water level was high from last night's rain. Lots of debris and ducks in the water. Turbidity reading was high at the internal point due to the debris and ducks in the water. Between 1016 to 1030 collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 01/03 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 01/04.</p>	
ELEVATION (approx.)	6	6	6		
TIME	10:16	10:22	10:30		
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3		
TEMPERATURE (°C)	14.8	14.2	14.2		
pH	8.22	8.5	8.13		
TURBIDITY (NTUs)	8.32	10.3	8.47		
DISSOLVED O ₂ (mg/L)	10	9.9	9.72		
TOTAL SUSPENDED SOLIDS (mg/L)	10.2	15.7	19.6		
Ballona Creek Reach 112 North					
LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results	
LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	<p>For Friday 1/6/23, 4th day of field work. Isaac arrived on-site at 0730 to perform water quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. Ocean blue needs to come out a reset the BMPs due to the heavy rain from the previous day and leaving the BMPS in the vegetation and on the slope (photo attached). Contractor continued to work on slope. Pending ocean blue returning and resetting BMP. No water quality sampling done.</p>	
ELEVATION (approx.)	6	6	6		
TIME	7:30	7:30	7:30		
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3		
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Ballona Creek Reach 112 North					
LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results	
LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	<p>For Thursday 1/12, Isaac arrived on-site at 0730 to perform water quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. Ocean blue needs to come out a reset the BMPs due to the heavy rain. No work done in creek. Waiting for notice of work continuing. No water quality sampling done.</p>	
ELEVATION (approx.)	6	6	6		
TIME	7:30	7:30	7:30		
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3		
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					

Ballona Creek Reach 112 North				1/23/2023
LATITUDE (approx.)	33.986765	33.984031	33.98031	Post-Work WQ Monitoring & Sampling Results For Monday 1/23/23 , Garo arrived on-site at 0650 to perform post water quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. Ocean Blue has removed the BMP from the channel. Private contractor finished with all the vegetation removal from the soft bottom channel. Due to the heavy rains from earlier in the month, scheduling was on a day by day basis depending of rain forecast. Water level was high with lots of debris inside the water including tree branches from the winds. Turbidity reading was high at the internal point due to the debris and ducks in the water. Between 0700 to 0723 collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 01/23 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 01/24
LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
ELEVATION (approx.)	6	6	6	
TIME	7:00	7:11	7:23	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	
TEMPERATURE (°C)	9.1	8.63	9.1	
pH	8.88	8.2	7.56	
TURBIDITY (NTUs)	15.6	24.7	7.95	
DISSOLVED O ₂ (mg/L)	9.99	9.83	9.8	
TOTAL SUSPENDE SOLIDS (mg/L)	24	110	22	

Ballona Creek Reach 112 South				12/13/2022
LATITUDE (approx.)	33.986641	33.984285	33.980196	Pre-Clearing/Baseline For Tuesday 12/13, Baseline and 1st day of field work, due to work conflicting work schedule and rain from the previous day (Monday 12/12/2022), Garo arrived on-site at 0800 and met with Steve McMihelk from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Prior to field vegetation removal, there was a tailgate meeting with the biologist from PSOMAS as far as the ground rules for the newly coastal permits as well as natural habitat awareness. the BMP was placed on the south side from the upstream running along to the internal points (photo attached). Water level was back to normal after the rain from the previous day. There were lots of vegetation, debris and ducks in the vegetation. Turbidity readings were high at the internal point due to the water level rising as well as the vegetation and debris in the water from the rain. Between 0900 to 0915 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 12/13 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 12/14. I informed Max Dizon on-site of the turbidity readings
LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	9:00	9:10	9:15	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	11.9	10.9	11.7	
pH	7.72	8.02	7.67	
TURBIDITY (NTUs)	13.5	18	15.4	
DISSOLVED O ₂ (mg/L)	9.68	9.61	9.97	
TOTAL SUSPENDE SOLIDS (mg/L)	12.6	14.1	7	

Ballona Creek Reach 112 South				12/14/2022
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Wednesday 12/14, 2nd day of field work, Garo arrived on-site at 0800 to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Field crew continue with vegetation removal along the slope of the channel. Water level was very low. Turbidity readings were slightly high at the downstream sampling point due to vegetation and debris in the water. Between 0805 to 0822 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 12/14 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 12/15. I informed Steve McMihelk via text message of the turbidity readings.
LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	8:05	8:13	8:22	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	9.08	8.84	9.09	
pH	8.37	7.97	7.58	
TURBIDITY (NTUs)	1.38	1.34	2.57	
DISSOLVED O ₂ (mg/L)	9.75	9.71	9.89	
TOTAL SUSPENDE SOLIDS (mg/L)	ND	ND	8.6	

Ballona Creek Reach 112 South				12/16/2022
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Friday 12/16, 3rd day of field work, Garo arrived on-site at 0700 and met with Steve McMihelk from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Work was temporarily shut down due to Ocean Blue repositioning the BMP down south of Ballona Creek Channel, so the vegetation will be removed down prior to reaching the 91 Freeway bridge. BMP is placed at the upstream point. Field crew were cutting at the access points for the midges near the water flow channel. Water level is low. There continues to be large amounts of debris as well as ducks in the water flow of the channel. Turbidity readings were slightly high at both internal and downstream sampling points due to the debris and ducks in the water. Between 0731 to 0740 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/16 on 24-hour TAT. Results for TSS will be available Monday afternoon, 12/19. I informed Steve McMihelk on-site of the turbidity reading.
LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	7:20	7:31	7:40	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	11.2	10.7	10.8	
pH	8.73	8.43	7.99	
TURBIDITY (NTUs)	1.58	3.29	4.75	
DISSOLVED O ₂ (mg/L)	9.62	10	9.85	
TOTAL SUSPENDED SOLIDS (mg/L)	5.6	6.2	11	
Ballona Creek Reach 112 South				12/20/2022
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Tuesday 12/20, 12/19 4th day there was a scheduling conflict, 4th day of field work done today. Isaac arrived on-site at 0730 and met with Steve McMihelk from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Work was temporarily shut down due to Ocean Blue repositioning the BMP down south of Ballona Creek Channel, so the vegetation will be removed down prior to reaching the 91 Freeway bridge. BMP is placed at the Internal point. Field crew were cutting at the access points for the midges near the water flow channel. Water level is low. There continues to be large amounts of debris as well as ducks in the water flow of the channel. Between 0852 to 1015 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 12/20 on 24-hour TAT. Results for TSS will be available Monday afternoon, 12/22. I informed Steve McMihelk on-site of the turbidity readings.
LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	8:52	9:52	10:15	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	10.89	11.58	13.33	
pH	8.84	7.98	7.89	
TURBIDITY (NTUs)	1.5	1.69	1.44	
DISSOLVED O ₂ (mg/L)	9.87	9.97	9.12	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	11.7	20.2	
Ballona Creek Reach 112 South				12/21/2022
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Tuesday 12/21, 5th day of field work done today. Isaac arrived on-site at 0730 and met with Ricardo Blas from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Work was temporarily shut down due to Ocean Blue repositioning the BMP down south of Ballona Creek Channel, so the vegetation will be removed down prior to reaching the 91 Freeway bridge. BMP is placed at the Internal point. Field crew were cutting at the access points for the midges near the water flow channel. Water level is low. There continues to be large amounts of debris as well as ducks in the water flow of the channel. Turbidity readings were slightly high at both internal and downstream sampling points due to the debris being cut and ducks in the water. Between 0857 to 0940 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 12/21 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 12/22. I informed Ricardo Blas on-site of the turbidity readings.
LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	8:57	9:20	9:40	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	9.04	10.36	11.29	
pH	9.4	8.1	8.24	
TURBIDITY (NTUs)	0.76	1.24	1.14	
DISSOLVED O ₂ (mg/L)	9.87	9.97	9.12	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	8.1	12.9	

Ballona Creek Reach 112 South				12/22/2022
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Tuesday 12/22, 6th day of field work done today. Isaac arrived on-site at 0730 and met with Steve McMihelk from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Work was temporarily shut down due to Ocean Blue repositioning the BMP down south of Ballona Creek Channel, so the vegetation will be removed down prior to reaching the 91 Freeway bridge. BMP is placed at the Internal point to end of vegetation growth. Field crew were cutting at the access points for the midges near the water flow channel. There continues to be large amounts of debris as well as ducks in the water flow of the channel. The water level was high due to tide causing a lot of the sediment to rise by upstream. Between 0830 to 1005 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 12/22 on 24-hour TAT. Results for TSS will be available Friday afternoon, 12/23.
LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	8:30	9:35	10:05	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	8.76	10.92	11.87	
pH	8.87	8	8.17	
TURBIDITY (NTUs)	8.05	4.56	4.19	
DISSOLVED O ₂ (mg/L)	9.66	9.48	9.69	
TOTAL SUSPENDED SOLIDS (mg/L)	7.7	14.2	9.3	
Ballona Creek Reach 112 South				
LATITUDE (approx.)	33.986641	33.984285	33.980196	Post-Work WQ Monitoring & Sampling Results For Tuesday 01/03, Garo arrived on-site at 0930 to perform post water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Field crew have completed all vegetation removal and Ocean Blue moved the BMP to the north side of the channel. The water level was high due rain from last night. Between 0933 to 0948 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 01/03 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 01/04.
LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	9:33	9:40	9:48	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	14.9	15.1	14.9	
pH	8.06	8.17	7.25	
TURBIDITY (NTUs)	12.3	12	9.45	
DISSOLVED O ₂ (mg/L)	9.98	9.88	9.83	
TOTAL SUSPENDED SOLIDS (mg/L)	14.6	18.3	19.2	
Compton Creek Reach 24				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	Pre-Clearing/Baseline For Monday, 09/12 – Garo arrived on the jobsite at 0932 met with Carlos Varela from Stormwater Maintenance Imperial Yard and performed pre-work baseline monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Due to the rain from last Friday (09/09/2022) & Saturday (09/10/2022) there water flow was clear and contained brown unknow substance with very bad odor. Field crew placed sand bags and BMPs at the downstream point at the low flow. Baseline monitoring and sampling was performed five (5) days prior of cleanout start date. Between 0934 and 1010, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/12 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/13. From a water quality standpoint, project is “good to go” for start on Friday 09/16.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:10	10:00	9:34	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	23.9	25.2	26.6	
pH	6.19	7.54	7.61	
TURBIDITY (NTUs)	18.35	54.69	47.36	
DISSOLVED O ₂ (mg/L)	9.97	9.41	9.64	
TOTAL SUSPENDED SOLIDS (mg/L)	11.2	14.4	18.2	

Compton Creek Reach 24				9/16/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Friday, 09/16 – Garo arrived on the jobsite at 0805 met with City Harvey from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. New BPMs were placed at the downstream sampling point (photo attached) There was a very bad odor coming from the water at all sampling points and the water itself was not clear Between 0806 and 0905, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 09/16 on 24-hour TAT. Results for TSS will be available Monday afternoon, 09/19.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	9:05	8:35	8:06	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	21.8	22.5	22.2	
pH	7.81	7	7.79	
TURBIDITY (NTUs)	24.29	13.14	28.88	
DISSOLVED O ₂ (mg/L)	8.47	8.5	8.2	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6.6	5.8	
Compton Creek Reach 24				9/17/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Saturday, 09/17 – 2nd day of field work, Garo arrived on the jobsite at 0805 met with Jerette Rivas from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. BPMs were placed at the downstream sampling point. There is still a very bad odor coming from the water at all sampling points and the water itself was not clear. The unknow substance is floating along the water. The turbidity reading at both internal and downstream was high, but the downstream point was on the high side. I spoke with Jeremy Winston about possible screens being placed at upstream and internal. Between 0810 and 0900, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be subbmitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/19 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/20.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	9:00	8:35	8:10	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	20.9	21.4	21.4	
pH	7.66	7.66	8.42	
TURBIDITY (NTUs)	21.27	29.89	51.14	
DISSOLVED O ₂ (mg/L)	9.25	9.11	9.12	
TOTAL SUSPENDED SOLIDS (mg/L)	7	7.4	7.2	
Compton Creek Reach 24				9/19/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Monday, 09/19 – 3rd day of field work, Garo arrived on the jobsite at 0800 met with Jerette Rivas from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. BPMs were placed at the downstream sampling point. The upstream sampling point had lots of Larva in the water as well white unknown substance floating in the water. The downstream sampling point had lots of brownish color floating at the second BMP location. The odor still remains in all three areas. The turbidity reading was very high downstream was high, but the downstream point was on the high side. I spoke with Jeremy Winston about monitoring the brown color substance at the downstream point. Between 0806 and 0900, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/19 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/20.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	9:00	8:30	8:06	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	21.1	21.2	20.2	
pH	7.73	7.92	7.57	
TURBIDITY (NTUs)	26.41	19.2	67.42	
DISSOLVED O ₂ (mg/L)	9.69	9.59	9.74	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6.2	ND	

Compton Creek Reach 24				9/20/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Tuesday, 09/20 – 4th day of field work, Garo arrived on the jobsite at 0800 met with Carlos Varela from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. BMPs placed at the downstream sampling were knocked out from its original set up as well the brownish coloring in the water (photo attached) The upstream sampling point had lots of Larva in the water as well white unknown substance floating in the water. The downstream sampling point had lots of brownish color floating at the second BMP location. The odor still remains in all three areas. The turbidity reading was very high downstream was high, but the downstream point was on the high side. I spoke with Jeremy Winston as we still continue to monitor the brown color substance at the downstream point. Between 0806 and 0900, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 09/20 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 09/21.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:10	8:29	8:50	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	22.7	22.3	22.6	
pH	7.25	7.95	7.56	
TURBIDITY (NTUs)	21.85	19.94	41.18	
DISSOLVED O ₂ (mg/L)	9.34	9.19	9.9	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	23.8	9.2	
Compton Creek Reach 24				9/21/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Wednesday, 09/21 – 5th day of field work, Garo arrived on the jobsite at 0800 met with Carlos Varela from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. The BMPs at the downstream sampling are still out of its original position form as well the brownish coloring in the water. The upstream sampling point had lots of Larva in the water as well white unknown substance floating in the water. The downstream sampling point had lots of brownish color floating at the second BMP location. The odor still remains in all three areas. The turbidity reading was very high downstream was high. I informed with Jeremy Winston as we still continue to monitor the brown color substance at the downstream point. Between 0806 and 0900, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 09/21 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 09/22
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:06	8:30	8:49	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	20.8	20.6	20.9	
pH	8.03	8.59	9.37	
TURBIDITY (NTUs)	29.51	24.87	42.76	
DISSOLVED O ₂ (mg/L)	8.73	8.59	9.37	
TOTAL SUSPENDED SOLIDS (mg/L)	6.2	9	7.2	
Compton Creek Reach 24				9/22/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 09/22 – 6th day of field work, Garo arrived on the jobsite at 0800 met with Carlos Varela from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Field crew placed additional BMPs along with the existing sand bags and BMPs placed from the first day at the downstream sampling point. The upstream sampling point continues to have lots of Larva in the water as well white unknown substance floating in the water. The downstream sampling point had lots of brownish color floating at the second BMP location. The odor still remains in all three areas. Between 0805 and 0855, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/22 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/23.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:05	8:29	8:55	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	20.1	20	20.5	
pH	20.1	20	20.5	
TURBIDITY (NTUs)	32.2	31.27	14.85	
DISSOLVED O ₂ (mg/L)	8.76	8.59	9.38	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	8.8	5.2	

Compton Creek Reach 24				9/23/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Friday, 09/23 – 7th day of field work, Garo arrived on the jobsite at 0800 met with Jerette Rivas from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Field crew placed additional BMPs along with the existing sand bags and BMPs placed from the first day at the downstream sampling point (photo attached). The upstream sampling point continues to have lots of Larva in the water as well white unknown substance floating in the water. The downstream sampling point had lots of brownish color floating at the second BMP location. The odor still remains in all three areas. Between 0805 and 0849, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 09/23 on 24-hour TAT. Results for TSS will be available Monday afternoon, 09/26. GMED will now transition to weekly water quality sampling.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:05	8:26	8:49	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	20.4	20.1	20.5	
pH	7.24	7.64	7.42	
TURBIDITY (NTUs)	29.19	27.53	13.53	
DISSOLVED O ₂ (mg/L)	9.33	9.4	9.85	
TOTAL SUSPENDED SOLIDS (mg/L)	8	7	4	
Compton Creek Reach 24				9/29/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 09/29 – 13th day of field work, Garo arrived on the jobsite at 0800 met with Carlos Varela from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Field crew placed additional BMPs along with the existing sand bags and BMPs placed from the first day at the downstream sampling point. The upstream sampling point continues to have lots of Larva in the water as well white unknown substance floating in the water. The internal and downstream sampling point had lots of violet color floating. The odor still remains in all three areas. Between 0805 and 0855, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/29 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/30. GMED will now transition to weekly water quality sampling.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:05	8:32	8:55	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	22.5	21.9	22.2	
pH	8.02	7.14	7.07	
TURBIDITY (NTUs)	22.25	26.22	18.05	
DISSOLVED O ₂ (mg/L)	9.96	9.98	9.95	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6.8	7.6	
Compton Creek Reach 24				10/6/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 10/06 – 19th day of field work, Garo arrived on the jobsite at 0800 met with Carlos Varlea from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Field crew placed additional BMPs along with the existing sand bags and BMPs placed from the first day at the downstream sampling point. The upstream sampling point continues to have lots of Larva in the water as well as light brownish color in the water. Turbidity readings at both internal and downstream sampling points were high due larva, vegetation, and light brown coloring. Between 0805 and 0845, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/06 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/07.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:05	8:27	8:45	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	21.7	20.8	21.1	
pH	7.32	7.57	7.43	
TURBIDITY (NTUs)	19.84	33.53	24.53	
DISSOLVED O ₂ (mg/L)	9.89	9.96	9.98	
TOTAL SUSPENDED SOLIDS (mg/L)				

Compton Creek Reach 24				10/20/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 10/20 – 29th day of field work, There was no water sampling on 10/13 because the channel was flooded from the rain from the previous day 10/12. Garo arrived on the jobsite at 0900 met with Lonnie Walton from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Field crew placed additional BMPs along with the existing sand bags and BMPs placed from the first day at the downstream sampling point. The internal point was flooded with ponds at certain areas of the soft bottom channel. The upstream sampling point continues to have lots of Larva in the water as well as light brownish color in the water. Turbidity readings at both internal and downstream sampling points were high due larva, vegetation, and light brown coloring. Between 0900 and 0930, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/20 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/21.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	9:30	9:15	9:00	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	21.1	21.2	20.8	
pH	8.91	8.16	8.06	
TURBIDITY (NTUs)	27.6	64.2	52.7	
DISSOLVED O ₂ (mg/L)	8.92	9	9.24	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	6.2	
Compton Creek Reach 24				10/27/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 10/27 – 34th day of field work, Garo arrived on the jobsite at 0958 met with Carlos Varlea from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Field crew continue to remove vegetation in the soft bottom channel between Del Amo and LA River concrete line and soft bottom transition. The internal point still has water flooded along the water creek. The upstream sampling point continues to have lots of Larva in the water as well as light brownish color in the water. Turbidity readings at both internal and downstream sampling points were high due larva, vegetation, and light brown coloring. Between 1007 and 1035, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/27 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/28.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:35	10:20	10:07	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	17.5	17.9	17.9	
pH	8.17	7.7	7.52	
TURBIDITY (NTUs)	18.9	26	80	
DISSOLVED O ₂ (mg/L)	9.99	9.75	9.58	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6.8	ND	
Compton Creek Reach 24				11/4/2022
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	Post-Work WQ Monitoring & Sampling Results For Friday, 11/04 – Garo arrived on the jobsite at 0940 met with Richard Hunter from Stormwater Maintenance Imperial Yard to perform post water quality monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Field crew have completed all of the remove vegetation in the soft bottom channel of Compton Creek. The BMPs have been removed from the concrete line outlet between the soft bottom and LA River channel. There was very bad odor coming from all three sampling points as well as the light brown coloring in the water. The turbidity readings were high at both internal and downstream points. Between 0945 and 1011, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/04 on 24-hour TAT. Results for TSS will be available Monday afternoon, 11/05.
LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:11	10:00	9:45	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	15.9	15.8	16.3	
pH	7.62	7.86	7.23	
TURBIDITY (NTUs)	11.9	26.3	31.1	
DISSOLVED O ₂ (mg/L)	10	9.47	9.76	
TOTAL SUSPENDED SOLIDS (mg/L)	21.8	6.2	5.2	

Los Angeles River Reach 114				10/24/2022
LATITUDE (approx.)	33.790323	33.787342	33.782763	Pre-Clearing/Baseline For Monday, 10/24 – Garo arrived on the jobsite at 0750am met with Carlos Varlea and Lonnie Walton from Stormwater Maintenance Imperial Yard and performed baseline water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Ocean blue cleared out all homeless in the area. Field crew already begun cutting vegetation on the soft bottom channel of reach 114. Baseline monitoring and sampling was performed one (1) days prior of cleanout start date. Between 0845 and 0917, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/24 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 10/25. From a water quality standpoint, project is “good to go” for start on Tuesday 10/25.
LONGITUDE (approx.)	-118.206232	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	5	
TIME	8:18	8:13	7:54	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	19.6	19.1	20.4	
pH	8.06	8.87	8.25	
TURBIDITY (NTUs)	3.3	3.24	2.98	
DISSOLVED O ₂ (mg/L)	9.43	9.5	9.9	
TOTAL SUSPENDED SOLIDS (mg/L)	8.8	10	11.4	
Los Angeles River Reach 114				10/25/2022
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Tuesday 10/25 – 1st day of field operations, Garo arrived on the jobsite at 0800 met with Carlos Varlea from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water level was still down. Field crew continue to cut and remove vegetation on the soft bottom channel as well as the rip-rap slope areas. Water conditions were normal. There was also lots of debris and ducks in the water channel. Turbidity readings was high at the internal sampling point. Between 0810 and 0835, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 10/25 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 10/26. I informed Anthony Castaneda of the turbidity results.
LONGITUDE (approx.)	-118.206232	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	5	
TIME	8:35	8:29	8:10	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	17.2	17.4	17.5	
pH	7.38	7.76	8	
TURBIDITY (NTUs)	2.82	2.55	2.12	
DISSOLVED O ₂ (mg/L)	9.39	9.89	9.88	
TOTAL SUSPENDED SOLIDS (mg/L)	7.8	6.4	7.2	
Los Angeles River Reach 114				10/26/2022
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Wednesday 10/26 – 2nd day of field operations, Garo arrived on the jobsite at 0750 met with Carlos Varlea from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water level was slightly up. Field crew continue to cut and remove vegetation on the soft bottom channel as well as the rip-rap slope areas. There are still lots of debris and ducks in the water channel. Between 0755 and 0816, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/26 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/27.
LONGITUDE (approx.)	-118.206232	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	5	
TIME	8:16	8:10	7:55	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	17.3	18	17.8	
pH	7.98	8.01	8	
TURBIDITY (NTUs)	1.79	1.69	1.35	
DISSOLVED O ₂ (mg/L)	9.81	9.87	9.97	
TOTAL SUSPENDED SOLIDS (mg/L)	6.8	5.6	7.4	

Los Angeles River Reach 114				10/27/2022
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Thursday 10/27 – 3rd day of field operations, Garo arrived on the jobsite at 0855 met with Carlos Varlea from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Field crew continue to cut and remove vegetation on the soft bottom channel as well as the rip-rap slope areas. The majority of the soft bottom channel cleanout has been removed between the upstream and internal sampling points. There are still lots of debris and ducks in the water channel. Between 0905 and 0925, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/27 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/28.
LONGITUDE (approx.)	-118.206232	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	9:25	9:19	9:05	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	17.5	17.9	17.8	
pH	8.54	8.04	8.05	
TURBIDITY (NTUs)	2.09	1.27	1.2	
DISSOLVED O ₂ (mg/L)	9.56	9.72	9.6	
TOTAL SUSPENDED SOLIDS (mg/L)	7	ND	6.4	
Los Angeles River Reach 114				10/28/2022
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Friday 10/28 – 4th day of field operations, Garo arrived on the jobsite at 0900 met with Ed Ramos from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Field crew continue to cut and remove vegetation on the soft bottom channel as well as the rip-rap slope areas. Homeless cleanout still continues. Field crew is working near the Anaheim Street Bridge. There are still lots of debris and ducks in the water channel. Between 0908 and 0934, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 10/28 on 24-hour TAT. Results for TSS will be available Monday afternoon, 10/29.
LONGITUDE (approx.)	-118.206232	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	9:34	9:22	9:08	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	17.9	18.4	18.4	
pH	7.72	7.28	7.38	
TURBIDITY (NTUs)	1.51	1.25	1.16	
DISSOLVED O ₂ (mg/L)	9.64	9.54	9.72	
TOTAL SUSPENDED SOLIDS (mg/L)	7.8	6.6	5.4	
Los Angeles River Reach 114				10/29/2022
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Saturday 10/29 – 5th day of field operations, Garo arrived on the jobsite at 0905 met with Ed Ramos from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Field crew continue to cut and remove vegetation on the soft bottom channel as well as the rip-rap slope areas. Homeless have been cleanout. There are still lots of debris and ducks in the water channel. Between 0912 and 0932, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/31 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/01.
LONGITUDE (approx.)	-118.206232	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	9:12	9:22	9:32	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	17.4	17.8	17.7	
pH	8	7.4	7.48	
TURBIDITY (NTUs)	1.51	1.19	1.48	
DISSOLVED O ₂ (mg/L)	9.72	9.98	9.61	
TOTAL SUSPENDED SOLIDS (mg/L)	6	8.2	5.8	

Los Angeles River Reach 114				10/31/2022
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Monday 10/31 – 6th day of field operations, Garo arrived on the jobsite at 0900 met with Carlos Varlea from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Field crew continue to cut and remove vegetation on the soft bottom channel. There are still lots of debris, ducks, and seagulls in the water channel. Between 00910 and 0934, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/31 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/01.
LONGITUDE (approx.)	-118.206232	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	9:34	9:28	9:10	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	17.5	17.9	18.1	
pH	7.85	7.3	8.01	
TURBIDITY (NTUs)	1.88	1.82	2.25	
DISSOLVED O ₂ (mg/L)	9.47	9.65	9.58	
TOTAL SUSPENDED SOLIDS (mg/L)	9.2	ND	ND	
Los Angeles River Reach 114				11/4/2022
LATITUDE (approx.)	33.790323	33.787342	33.782763	Post-Work WQ Monitoring & Sampling Results For Friday 11/04 – Garo arrived on the jobsite at 0759 met with Richard Hunter from Stormwater Maintenance Imperial Yard to perform post water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Field crew have completed all vegetation removal along the slope and soft bottom. Turbidity readings were slightly high at both internal and downstream points due to lots of debris, ducks, and seagulls in the water channel. Between 0811 and 0831, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/04 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/07
LONGITUDE (approx.)	-118.206232	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	8:31	8:21	8:11	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	13.9	14.2	14.5	
pH	7.87	7.37	7.68	
TURBIDITY (NTUs)	3.49	4.05	4.23	
DISSOLVED O ₂ (mg/L)	9.8	9.7	9.98	
TOTAL SUSPENDED SOLIDS (mg/L)	7.2	7.8	8.2	

Los Angeles River Reach 25 East				10/26/2022
LATITUDE (approx.)	33.803965	33.800976	33.79033	Pre-Clearing/Baseline For Wednesday 10/26, Baseline and 2nd day of field operations, due to late email request, the cleanout operations started on Tuesday October 25, 2022. Garo arrived 0829 on-site and met with Carlos Varlea from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Field crew already started with vegetation removal in soft bottom channel. Water level was high at the downstream point. There were lots of ducks and debris in the channel. Between 0838 and 0855, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/26 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/27.
LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:43	8:38	8:55	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	17.2	17.1	17.1	
pH	7.55	7.28	8	
TURBIDITY (NTUs)	4.11	4.87	1.94	
DISSOLVED O ₂ (mg/L)	10	9.76	9.75	
TOTAL SUSPENDED SOLIDS (mg/L)	11.2	5.4	11.4	

Los Angeles River Reach 25 East				10/27/2022
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Thursday 10/27, 3rd day of field operations, Garo arrived 0745 on-site and met with Carlos Varlea from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Field crew already started with vegetation removal in soft bottom channel at the downstream point near PCH bridge. Water level went down at the downstream point. There were lots of ducks and debris in the channel. Between 0806 and 0830, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/27 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/28.
LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:11	8:06	8:30	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	17.8	16.6	17.2	
pH	7.9	8.5	7.71	
TURBIDITY (NTUs)	1.93	1.67	1.72	
DISSOLVED O ₂ (mg/L)	9.91	9.96	9.9	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	7	13	
Los Angeles River Reach 25 East				10/28/2022
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Friday 10/28, 4th day of field operations, Garo arrived 0750 on-site and met Ed Ramos with from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Field crew continue to remove vegetation in soft bottom channel at the downstream point near PCH bridge. Homeless cleanout still continues however there is still lots of debris in the water and along the soft bottom channel. There are still lots of ducks and debris in the channel. Between 0805 and 0847, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 10/28 on 24-hour TAT. Results for TSS will be available Monday afternoon, 10/29.
LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:16	8:05	8:47	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	16.2	15.2	19.2	
pH	8.08	8.1	8.2	
TURBIDITY (NTUs)	2.49	1.46	1.49	
DISSOLVED O ₂ (mg/L)	9.72	9.99	9.93	
TOTAL SUSPENDED SOLIDS (mg/L)	7	5.8	ND	
Los Angeles River Reach 25 East				10/29/2022
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Saturday 10/29, 5th day of field operations, Garo arrived 0800 on-site and met Ed Ramos with from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Field crew continue to remove vegetation in soft bottom channel at the downstream point near Willow bridge. Water level flow was normal throughout the water channel. There are still lots of ducks and debris in the channel. Between 0812 and 0848, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/30 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/01.
LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:20	8:12	8:48	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	15.4	15	15.8	
pH	7.84	7.73	7.68	
TURBIDITY (NTUs)	2.04	2.51	1.67	
DISSOLVED O ₂ (mg/L)	9.99	9.86	9.71	
TOTAL SUSPENDED SOLIDS (mg/L)	24.4	19.8	5.8	

Los Angeles River Reach 25 East				10/31/2022
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Monday 10/31, 6th day of field operations, Garo arrived 0800 on-site and met Carlos Varlea with from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Field crew continue to remove vegetation in soft bottom channel between Willow bridge and the gas pipeline bridge. Water level flow was normal throughout the water channel. There are still lots of ducks and debris in the channel. Turbidity readings were slightly high at both internal and downstream points due to lots of debris, ducks, and seagulls in the water. Between 0810 and 0845, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/30 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/01. I notified Jasson Velez via phone call of the turbidity readings.
LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:19	8:10	8:45	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	15.4	15.1	15.8	
pH	8.01	8.07	8.05	
TURBIDITY (NTUs)	1.15	1.54	2.01	
DISSOLVED O ₂ (mg/L)	10	9.79	9.87	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	5.8	ND	
Los Angeles River Reach 25 East				11/1/2022
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Tuesday 11/01, 7th day of field operations, Garo arrived 0815 on-site and met Lonnie Walton with from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Field crew continue to remove vegetation in soft bottom channel at certain areas of the soft bottom channel. Water level flow was normal throughout the water channel. There are still lots of ducks and debris in the channel. Turbidity readings were slightly high at both internal and downstream points due to lots of debris, ducks, and seagulls in the water. Between 0810 and 0845, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/01 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/02. I notified Jasson Velez via phone call of the turbidity readings. GMED will now transition to weekly water quality sampling.
LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:32	8:20	8:50	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	18.8	18.4	18	
pH	8.06	8.05	8.1	
TURBIDITY (NTUs)	0.87	1.85	2.4	
DISSOLVED O ₂ (mg/L)	9.95	9.65	9.65	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6.2	ND	
Los Angeles River Reach 25 East				11/15/2022
LATITUDE (approx.)	33.803965	33.800976	33.79033	Post-Work WQ Monitoring & Sampling Results For Tuesday 11/15, Garo arrived 0725 on-site and met Carlos Varlea with from Stormwater Maintenance Imperial Yard to perform post water quality monitoring and sampling at the Los Angeles River Reach 25 East. Due to the rains on both Monday November 07 & 08, 2022, there was no weekly sampling done. Field crew have completed vegetation removal in soft bottom channel. Water level flow was normal throughout the water channel. There are still lots of ducks and debris in the channel. Between 0730 and 0752, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/15 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/16.
LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	7:40	7:30	7:52	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	11.9	10.8	11.4	
pH	8.06	8.47	8.13	
TURBIDITY (NTUs)	2.82	2.69	4.84	
DISSOLVED O ₂ (mg/L)	9.87	9.69	10.02	
TOTAL SUSPENDED SOLIDS (mg/L)	5.6	ND	ND	

Los Angeles River Reach 25 West				10/12/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	Pre-Clearing/Baseline For Wednesday 10/12, Isaac Ochoa and Garo arrived on-site at 0655 and met with Carlos Varlea from Stormwater Maintenance Imperial Yard to perform baseline water quality sampling and monitoring at Los Angeles River Reach 25 West. Water flow was steady throughout the channel, but there were lots of debris in the channel. All sampling points were down in the channel going down the rip-rap slope into the channel. Baseline was done five (5) days prior to start date. Between 0721 and 0755, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/12 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/13. From a water quality standpoint, project is "good to go" for start on Monday 10/17.
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	7:55	7:41	7:21	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	20.4	20.9	21.2	
pH	8.71	8.27	8.38	
TURBIDITY (NTUs)	7.56	3.37	3.51	
DISSOLVED O ₂ (mg/L)	9.99	9.61	9.29	
TOTAL SUSPENDED SOLIDS (mg/L)	12.8	5.2	ND	
Los Angeles River Reach 25 West				10/17/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Monday 10/17, 1st day of field work, Garo arrived on site at 0755 and met Carlos Varela from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew were starting vegetation removal and awaiting Ocean Blue to arrive to clear the homeless from the west side levee area. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was slightly high at the internal sampling point due to the massive debris and birds and ducks in the water. Between 0805 and 0825, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/17 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 10/18.
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:05	8:15	8:25	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	18.3	18.8	18.4	
pH	8.94	8.31	8.51	
TURBIDITY (NTUs)	2	4.31	2.24	
DISSOLVED O ₂ (mg/L)	9.9	9.92	9.68	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	11.2	ND	
Los Angeles River Reach 25 West				10/18/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Tuesday 10/18, 2nd day of field work, Isaac arrived on site at 0700 and met Carlos Varela from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew were starting vegetation removal and awaiting Ocean Blue to arrive to clear the homeless from the west side levee area. Homeless is still in area. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was slightly high at the internal sampling point due to the massive debris and birds and ducks in the water. Between 0734 and 0804, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 10/18 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 10/19.
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:04	7:51	7:34	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	30.21	24.91	24.37	
pH	9.38	8.94	9.71	
TURBIDITY (NTUs)	1.37	2.12	1.07	
DISSOLVED O ₂ (mg/L)	9.99	9.99	9.99	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	ND	

Los Angeles River Reach 25 West				10/19/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Wednesday 10/19, 3rd day of field work, Isaac arrived on site at 0700 and met Carlos Varela from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew were starting vegetation removal and awaiting Ocean Blue to arrive to clear the homeless from the west side levee area. Homeless is still in area. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was slightly high at the internal sampling point due to the massive debris and birds and ducks in the water. Between 0747 and 0815, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/19 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/20.
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	7:47	8:05	8:15	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	20.74	22.06	20.99	
pH	9.23	8.92	9.77	
TURBIDITY (NTUs)	1.53	1.62	0.57	
DISSOLVED O ₂ (mg/L)	8.85	9.47	9.92	
TOTAL SUSPENDE SOLIDS (mg/L)	5	5.2	ND	
Los Angeles River Reach 25 West				10/20/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Thursday 10/20, 4th day of field work, Garo arrived on site at 0745 and met Lonnie Walton from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew are continuing with vegetation removal along both the slope and soft bottom. There is still lots of homeless in area. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was slightly high at the internal sampling point due to the massive debris and birds and ducks in the water. Between 0805 and 0835, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/20 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/21
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:35	8:15	8:05	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	20.2	20.5	20.7	
pH	8.88	8.09	8.01	
TURBIDITY (NTUs)	1.89	3.38	1.43	
DISSOLVED O ₂ (mg/L)	9.96	9.82	9.62	
TOTAL SUSPENDE SOLIDS (mg/L)	5.6	11.8	5.6	
Los Angeles River Reach 25 West				10/21/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Friday 10/21, 5th day of field work, Garo arrived on site at 0745 and met Lonnie Walton from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew are continuing with vegetation removal along both the slope and soft bottom near the gas line bridge. There is still lots of homeless in area. There was mostly lots of debris spread throughout the soft bottom channel. Turbidity readings was slightly high at the internal sampling point due to the massive debris and birds and ducks in the water. Between 0805 and 0830, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 10/21 on 24-hour TAT. Results for TSS will be available Monday afternoon, 10/22.
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:30	8:16	8:05	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	19.9	19.8	20	
pH	8.65	8.1	8.24	
TURBIDITY (NTUs)	1.77	4.14	1.79	
DISSOLVED O ₂ (mg/L)	9.5	9.36	9.85	
TOTAL SUSPENDE SOLIDS (mg/L)	6.6	8.4	ND	

Los Angeles River Reach 25 West				10/22/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Saturday 10/22, 6th day of field work, Isaac arrived on site at 0720 and met Lonnie Walton from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew are continuing with vegetation removal along both the slope and soft bottom near the gas line bridge. There is still lots of homeless in area. There was mostly lots of debris spread throughout the soft bottom channel. Turbidity readings was slightly high at the internal sampling point due to the massive debris and birds and ducks in the water. Between 0727 and 0756, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/22 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 10/2
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	7:56	7:40	7:27	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	18.62	19.17	20.32	
pH	8.84	8.95	8.79	
TURBIDITY (NTUs)	2.12	2.85	2.97	
DISSOLVED O ₂ (mg/L)	9.89	9.93	9	
TOTAL SUSPENDED SOLIDS (mg/L)	27.8	9.8	7.6	
Los Angeles River Reach 25 West				10/24/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Monday 10/24, 7th day of field work, Garo arrived on site at 0818 and met with Carlos Varlea and Lonnie Walton from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew are continuing with vegetation removal along both the slope and soft bottom between the gas line bridge and PCH bridge. The soft bottom channel is nearly complete. There is still lots of homeless in area. There was mostly lots of debris spread throughout the soft bottom channel. Turbidity readings was slightly high at the both internal and downstream sampling point due to the massive debris and birds and ducks in the water. Between 0820 and 0909, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/24 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 10/25. GMED will transition to weekly water quality sampling.
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	9:09	9:00	8:20	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	17.3	17.7	17.8	
pH	8.27	8.35	8.99	
TURBIDITY (NTUs)	1.98	6.27	3.13	
DISSOLVED O ₂ (mg/L)	9.85	9.99	9.94	
TOTAL SUSPENDED SOLIDS (mg/L)	6.6	9.6	6.2	
Los Angeles River Reach 25 West				11/4/2022
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Monday 11/04, Garo arrived on site at 0830 and met with Richard Hunter from Stormwater Maintenance Imperial yard to perform post water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew have completed all vegetation removal along both the slope and soft bottom of the west side of Los Angeles River. There was mostly lots of debris spread throughout the soft bottom channel. Turbidity readings was slightly high at the both internal and downstream sampling point due to the massive debris and birds and ducks in the water. Between 0833 and 0924, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/04 on 24-hour TAT. Results for TSS will be available Monday afternoon, 11/07
LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	9:24	9:12	8:33	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	13.5	13.2	13.8	
pH	7.9	7.59	8.01	
TURBIDITY (NTUs)	1.07	5.85	3.49	
DISSOLVED O ₂ (mg/L)	9.85	9.96	10	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	13.2	5.8	

Project 74 Reach 26				9/13/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	Pre-Clearing/Baseline For Tuesday, 09/13 – Garo arrived on-site at 0745 and met Ricardo Blas from Stormwater Maintenance 83rd Yard and performed baseline water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. Water had a lot of bad odor and brownish coloring. The internal and downstream sampling points, water also had some white unknown substance as well. I informed Ricardo the locations to place the BMPs to help with the turbidity readings. Baseline was done four (4) days before start date. Between 0750 and 0825, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Tuesday 09/13 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 09/14. From a water quality standpoint, project is “good to go” for Friday 09/16 startdate
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	7:50	8:23	8:25	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	23.4	23.6	23.5	
pH	8.02	7.33	7.69	
TURBIDITY (NTUs)	5.61	49.04	67.16	
DISSOLVED O ₂ (mg/L)	8.74	8.6	8.1	
TOTAL SUSPENDEDED SOLIDS (mg/L)	10.8	6.4	6.2	
Project 74 Reach 26				9/16/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Friday 09/16 – Garo arrived on-site at 1150 and met Ricardo Blas from Stormwater Maintenance 83rd Yard and performed water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. BMPs were placed at the upstream and internal sampling points (photo attached). Water had a lot of bad odor and brownish coloring. The internal and downstream sampling points, water also had some white unknown substance as well. Turbidity readings were high at both internal and downstream sampling points due to the bad odor and light brown coloring in the water informed Ricardo to inspect the areas of the channel including both sides of the 91 freeway off ramp for any unknown substance coming out of an outlet.. Between 1155 and 1210, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Friday 09/16 on 24-hour TAT. Results for TSS will be available Monday afternoon, 09/19.
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	11:55	12:07	12:10	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	24.1	24.8	25.6	
pH	7.88	7.57	7.65	
TURBIDITY (NTUs)	14.32	65.1	60.5	
DISSOLVED O ₂ (mg/L)	9.95	9.32	9.71	
TOTAL SUSPENDEDED SOLIDS (mg/L)	19	5.4	7	
Project 74 Reach 26				9/17/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Saturday 09/17 – Garo arrived on-site at 1050 and met Ricardo Blas from Stormwater Maintenance 83rd Yard and performed water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. BMPs were placed at the upstream and internal sampling points. Water had a lot of bad odor and brownish coloring. The internal and downstream sampling points, water also had some white unknown substance as well. Turbidity readings were high at both internal and downstream sampling points due to the bad odor and light brown coloring in the water informed Ricardo to inspect the areas of the channel including both sides of the 91 freeway off ramp for any unknown substance coming out of an outlet. We will continue to monitor the area. Between 1055 and 1111, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Monday 09/19 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/20.
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	10:55	11:08	11:11	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	22.4	22	23.2	
pH	7.95	7.37	7.92	
TURBIDITY (NTUs)	13.39	62.72	59	
DISSOLVED O ₂ (mg/L)	9.83	9.39	9.75	
TOTAL SUSPENDEDED SOLIDS (mg/L)	6.6	6.6	10.6	

Project 74 Reach 26				9/19/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Monday 09/19 – Garo arrived on-site at 1050 and met Ricardo Blas from Stormwater Maintenance 83rd Yard and performed water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. BMPs were placed at the upstream and internal sampling points. Water continues to have lots of bad odor and greenish coloring in the water. The internal and downstream sampling points, water also had some white unknown substance as well. Turbidity readings continue to be high at both internal and downstream sampling points due to the bad odor and light brown coloring in the water. I notified Ricardo via text message of the turbidity results to inspect the areas of the channel including both sides of the 91 freeway off ramp for any unknown substance coming out of an outlet. We will continue to monitor the area. Between 1055 and 1111, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Monday 09/19 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/20.
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	10:55	11:05	11:09	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	23.4	24.2	24.3	
pH	7.79	7.8	7.82	
TURBIDITY (NTUs)	12.07	49.06	46.56	
DISSOLVED O ₂ (mg/L)	9.74	9.73	9.8	
TOTAL SUSPENDE SOLIDS (mg/L)	13.4	9.2	6.8	
Project 74 Reach 26				9/20/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Tuesday 09/20 – 4th day of field work, Garo arrived on-site at 1005 and met Ricardo Blas from Stormwater Maintenance 83rd Yard and performed water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. BMPs were placed at the upstream and internal sampling points. Water continues to have lots of bad odor and greenish coloring in the water. The internal and downstream sampling points, water also had some white unknown substance as well. Turbidity readings continue to be high at both internal and downstream sampling points due to the bad odor and light brown coloring in the water. The problem with the turbidity readings still continues to be in the areas of the channel including both sides of the 91 freeway off ramp for any unknown substance coming out of an outlet. We will continue to monitor the area. Between 1005 and 1024, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Tuesday 09/20 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 09/21.
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	10:05	10:20	10:24	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	22.3	23.3	24.1	
pH	8.08	7.69	8.59	
TURBIDITY (NTUs)	10.13	54.7	52.19	
DISSOLVED O ₂ (mg/L)	8.85	9.53	9.84	
TOTAL SUSPENDE SOLIDS (mg/L)	15.8	ND	6.4	
Project 74 Reach 26				9/22/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Thursday 09/22 – 5th day of field work, field crew did not work the previous day to due scheduled training class. Garo arrived on-site at 0948 and met Ricardo Blas from Stormwater Maintenance 83rd Yard and performed water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. BMPs were placed at the upstream and internal sampling points. Water continues to have lots of bad odor and greenish coloring in the water. The internal and downstream sampling points, water also had some white unknown substance as well. Turbidity readings continue to be high at both internal and downstream sampling points due to the bad odor and light brown coloring in the water. The problem with the turbidity readings still continues to be in the areas of the channel including both sides of the 91 freeway off ramp for any unknown substance coming out of an outlet. We will continue to monitor the area. Between 1005 and 1024, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Thursday 09/22 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/23.
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	9:49	9:58	10:02	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	20.6	21.4	22.7	
pH	7.99	7.84	7.3	
TURBIDITY (NTUs)	9.57	43.9	29.93	
DISSOLVED O ₂ (mg/L)	9.26	9.78	9.42	
TOTAL SUSPENDE SOLIDS (mg/L)	25.8	23	6	

Project 74 Reach 26				9/23/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Friday 09/23 – 6th day of field work, Garo arrived on-site at 0948 and met Ricardo Blas from Stormwater Maintenance 83rd Yard and performed water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. BMPs were placed at the upstream and internal sampling points. Water continues to have lots of bad odor and greenish coloring in the water. The internal and downstream sampling points, water also had some white unknown substance as well. Turbidity readings continue to be high at both internal and downstream sampling points due to the bad odor and light brown coloring in the water. The problem with the turbidity readings still continues to be in the areas of the channel including both sides of the 91 freeway off ramp for any unknown substance coming out of an outlet. We will continue to monitor the area. Between 1005 and 1024, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Friday 09/23 on 24-hour TAT. Results for TSS will be available Monday afternoon, 09/26.
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	9:58	10:02	10:05	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	21.2	21.7	23	
pH	7.84	7.56	7.61	
TURBIDITY (NTUs)	10.67	31.75	19.67	
DISSOLVED O ₂ (mg/L)	9.43	9.56	9.66	
TOTAL SUSPENDED SOLIDS (mg/L)	47.2	ND	8.8	
Project 74 Reach 26				9/24/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Saturday 09/24 – 7th day of field work, Garo arrived on-site at 0800 and met Ricardo Blas from Stormwater Maintenance 83rd Yard and performed water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. BMPs were placed at the upstream and internal sampling points. Water continues to have lots of bad odor and greenish coloring in the water. The internal and downstream sampling points, water also had some white unknown substance as well. Turbidity readings still continue to be high at both internal and downstream sampling points due to the bad odor, light brown coloring in the water and large amounts of larva. The problem with the turbidity readings still continues to be in the areas of the channel including both sides of the 91 freeway off ramp for any unknown substance coming out of an outlet. We will continue to monitor the area. Between 0821 and 0831, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Monday 09/26 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/27. GMED will now transition to weekly water quality sampling.
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	8:21	8:28	8:31	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	21.2	20.8	21.8	
pH	7.97	7.94	8.22	
TURBIDITY (NTUs)	8.52	32.65	20.43	
DISSOLVED O ₂ (mg/L)	9.39	9.81	9.77	
TOTAL SUSPENDED SOLIDS (mg/L)	27	9.2	11.4	
Project 74 Reach 26				10/6/2022
LATITUDE (approx.)	33.874239	33.872023	33.871242	Post-Work WQ Monitoring & Sampling Results For Thursday 10/06 – Garo arrived on-site at 0945 and performed post water quality sampling at upstream, internal, and downstream points at the Project 74 Reach 26. BMPs were removed at both upstream and internal sampling points. Field crew finished all vegetation removals. Water continues to have lots of bad odor and greenish coloring in the water. Turbidity readings still continue to be high at both internal and downstream sampling points due to the bad odor, light brown coloring in the water and large amounts of larva. Between 0950 and 1002, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Thursday 10/06 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/07
LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	9:50	9:58	10:02	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	21.2	21	20.9	
pH	7.66	7.74	7.55	
TURBIDITY (NTUs)	6.86	12.06	11.29	
DISSOLVED O ₂ (mg/L)	9.86	9.78	9.7	
TOTAL SUSPENDED SOLIDS (mg/L)	14	5.6	8.4	

Rivas Canyon Channel Reach 119		9/24/2022	
LATITUDE (approx.)			Pre-Clearing/Baseline
LONGITUDE (approx.)			<p>For September 24, 2022, Garo arrived on-site at 0955 and met with Rodney Nungary from Stormwater Maintenance 83rd Yard to perform baseline water quality sampling and monitoring at Rustic Channel Reach 119. Baseline was done six (6) days before the scheduled start date. The attached photo is the area of the downstream sampling point of Reach 119. Location is just before the confluence of Reach 118. Area is located south of the end of the cul-de-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. As shown this area was dry. Baseline water quality sampling was not performed because the site did not meet Regional Water Quality Board (RWQCB) parameters. GMED will monitor the entire area to re-confirm conditions. From a water quality standpoint, project is "good to go" for start on Friday 09/30.</p>
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
Rivas Canyon Channel Reach 119		9/30/2022	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)			<p>For September 30, 2022, Garo arrived on-site at 0845 and met with Steven Mc Mihelk from Stormwater Maintenance 83rd Yard to perform baseline water quality sampling and monitoring at Rustic Channel Reach 119. The attached photo is the area of the downstream sampling point of Reach 119. Location is just before the confluence of Reach 118. Area is located south of the end of the cul-de-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. As shown this area was dry. Baseline water quality sampling was not performed because the site did not meet Regional Water Quality Board (RWQCB) parameters. GMED will monitor the entire area to re-confirm conditions.</p>
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
Rivas Canyon Channel Reach 119		10/1/2022	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)			<p>For Saturday October 1, 2022, 2nd day of field work, Garo arrived at 0815 on-site and met with Rodney Nungaray from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 119. Attached photo is the internal sampling point located west of the cul-da-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. The section as well as the entire extent of Reach 119 was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements.</p>
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			

Rivas Canyon Channel Reach 119		10/3/2022		Post-Work WQ Monitoring & Sampling Results
LATITUDE (approx.)				<p>For Monday October 3, 2022, Garo arrived at 1020 on-site and met with Steven Mc Mihelk from Stormwater Maintenance 83rd Yard to perform post water quality sampling and monitoring at Rustic Canyon Channel Reach 119. Field crew finished all vegetation cleanout mid-day Saturday and started vegetation removal at Rustic Channel Reach 118. Attached photo is the internal sampling point located west of the cul-da-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. The section as well as the entire extent of Reach 119 was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements.</p>
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Rustic Canyon Channel Reach 118		9/30/2022		Pre-Clearing/Baseline
LATITUDE (approx.)				<p>For Friday September 30, 2022, Garo arrived 0850 on-site and met with Steven Mc Mihelk from Stormwater Maintenance 83rd Yard to perform baseline water quality sampling and monitoring. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted. From a water quality standpoint, project is "good to go" for start on Friday 10/07.</p>
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Rustic Canyon Channel Reach 118		10/3/2022		During Maintenance WQ Monitoring & Sampling Results
LATITUDE (approx.)				<p>For Monday October 03, 2022, 2nd day of field operations, Garo arrived at 1026 on-site and met with Steven Mc Mihelk from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. The field crew completed Rivas Channel Reach 119 on Saturday October 1, 2022 and started to work on Rivas Channel 118 mid-day of that day. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.</p>
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Rustic Canyon Channel Reach 118		10/4/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For Tuesday October 04, 2022, 3rd day of field operations, Garo arrived at 1030 on-site and met with Steven Mc Mihelk from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. The field crew completed Rivas Channel Reach 119 on Saturday October 1, 2022 and started to work on Rivas Channel 118 mid-day of that day. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Rustic Canyon Channel Reach 118		10/5/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For Wednesday October 05, 2022, 4th day of field operations, Garo arrived at 11:30 on-site and met with Steven Mc Mihelk from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. The field crew completed Rivas Channel Reach 119 on Saturday October 1, 2022 and started to work on Rivas Channel 118 mid-day of that day. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Rustic Canyon Channel Reach 118		10/6/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For Thursday October 06, 2022, 5th day of field operations, Garo arrived at 11:30 on-site and met with Steven Mc Mihelk from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Field crew continues vegetation removal inside the channel. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Rustic Canyon Channel Reach 118		10/7/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For Friday October 07, 2022, 6th day of field operations, Garo arrived at 0849 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Field crew continues vegetation removal inside the channel. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Rustic Canyon Channel Reach 118		10/8/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For Saturday October 08, 2022, 7th day of field operations, Garo arrived at 0812 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Field crew continues vegetation removal inside the channel. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will now transition to weekly water quality monitoring and will perform weekly site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Rustic Canyon Channel Reach 118		10/14/2022		
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results For Friday October 14, 2022, Garo arrived at 0934 on-site to perform post water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Field crew has completed all vegetation removal. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. Post water quality sampling was not performed because the project did not meet Regional Water Quality Board permit requirements.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

San Gabriel River Reach 43		9/14/2022		Pre-Clearing/Baseline
LATITUDE (approx.)				<p>For September 14, 2022, Garo arrived on site about 1056 am, to evaluate surface water flow prior to initiating baseline monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. Baseline water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions. From a water quality standpoint, project is "good to go" for start on Friday 09/16.</p>
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43		9/19/2022		Pre-Clearing/Baseline
LATITUDE (approx.)				<p>For September 19, 2022, 1st day of field work, Garo arrived on site about 1257, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.</p>
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43		9/20/2022		During Maintenance WQ Monitoring & Sampling Results
LATITUDE (approx.)				<p>For September 20, 2022, 2nd day of field work, I arrived on site about 1156, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.</p>
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

San Gabriel River Reach 43				9/21/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 21, 2022, 3rd day of field work, I arrived on site about 1012, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43				9/22/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 22, 2022, 4th day of field work, Garo arrived on site about 1053, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43				9/23/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 23, 2022, 5th day of field work, Garo arrived on site about 1132, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

San Gabriel River Reach 43		9/26/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 26, 2022, 6th day of field work, Garo arrived on site about 0805, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43		9/27/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 27, 2022, 7th day of field work, Garo arrived on site about 0844, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to water quality monitoring the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43		10/4/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For October 04, 2022, 12th day of field work, Garo arrived on site about 0820, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to water quality monitoring the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

San Gabriel River Reach 43		10/11/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For October 11, 2022, 17th day of field work, I arrived on site about 0810, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to water quality monitoring the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43		10/17/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For October 17, 2022, 24th day of field work, Isaac arrived on site about 11:10, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to water quality monitoring the area to re-confirm conditions
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43		10/25/2022		
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results For October 25, 2022, 31st day of field work, I arrived on site about 0950, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to water quality monitoring the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

San Gabriel River Reach 43				11/1/2022
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results For November 01, 2022, Garo arrived on site about 0950, to perform post water quality and sampling at upstream, internal, and downstream points at San Gabriel River Reach 43. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

San Gabriel River Reach 44				9/14/2022
LATITUDE (approx.)				Pre-Clearing/Baseline For September 14, 2022, Garo arrived on site about 1105 to evaluate surface water flow prior to initiating baseline monitoring and sampling at upstream, internal, and downstream. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Even though there was a pond of water, the majority of the area was dry. Baseline water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions From a water quality standpoint, project is “good to go” for start on Monday 09/19.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

San Gabriel River Reach 44				9/19/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 19 2020, 1st day of field work, I arrived on site about 1251 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

San Gabriel River Reach 44				9/20/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 20 2022, 2nd day of field work, Garo arrived on site about 1251 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				
San Gabriel River Reach 44				9/21/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 21 2022, 3rd day of field work, Garo arrived on site about 1006 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				
San Gabriel River Reach 44				9/22/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 22 2022, 4th day of field work, Garo arrived on site about 1047 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				

San Gabriel River Reach 44				9/23/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 23 2022, 5th day of field work, Garo arrived on site about 1125 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				
San Gabriel River Reach 44				9/26/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 26 2022, 6th day of field work, Garo arrived on site about 0815 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				
San Gabriel River Reach 44				9/27/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 27 2022, 7th day of field work, Garo arrived on site about 0853 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to weekly water quality monitoring to evaluate the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				

San Gabriel River Reach 44		10/4/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For October 04 2022, 12th day of field work, Garo arrived on site about 0827 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to weekly water quality monitoring to evaluate the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				
San Gabriel River Reach 44		10/11/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For October 11, 2022, 17th day of field work, Garo arrived on site about 0830 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to weekly water quality monitoring to evaluate the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				
San Gabriel River Reach 44		10/18/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For October 18, 2022, 24th day of field work, Isaac arrived on site about 10:30 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to weekly water quality monitoring to evaluate the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDE SOLIDS (mg/L)				

San Gabriel River Reach 44		10/25/2022		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For October 25, 2022, 31st day of field work, Garo arrived on site about 0943 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to weekly water quality monitoring to evaluate the area to re-confirm conditions.</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
San Gabriel River Reach 44		11/1/2022		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For November 01, 2022, 36th day of field work, Garo arrived on site about 0943 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to weekly water quality monitoring to evaluate the area to re-confirm conditions.</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
San Gabriel River Reach 44		11/15/2022		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For November 15, 2022, 43rd day of field work, no weekly water sampling on November 08, 2022, due to rain. Garo arrived on site about 0948 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to weekly water quality monitoring to evaluate the area to re-confirm conditions.</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					

San Gabriel River Reach 44				11/22/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For November 22, 2022, 48th day of field work, Garo arrived on site about 0758 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will transition to weekly water quality monitoring to evaluate the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 44				11/29/2022
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results For November 29, 2022, Garo arrived on site about 0758 to perform post water monitoring at San Gabriel River Reach 44. The contractor has finished their vegetation removal on the soft bottom channel. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. Also the second picture shows puddles of water but the main soft bottom is dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Walnut Creek Reach 98				10/11/2022
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	Pre-Clearing/Baseline For October 11, 2022, Garo arrived on-site at 0730 to perform baseline water quality sampling and monitoring at Walnut Creek Inlet Reach 98. Attached is a photo of downstream sampling point Located slightly over 1-1/2mile downstream and southwest of the upstream sampling point #1; Entrance is through locked gate on the west side of open-box channel off of Fairway Lane, w/o Grand Ave: Sampling point is in the bottom of open-box concrete channel in pool created by inflated rubber dam. The inflated rubber dam will be replaced this week and sand bags were placed to divert the water through the flood gate door open on the west side of the channel where water was diverging into the debris basin. No water sampling was done because the project did not meet Regional Water Quality Board permit requirements. From a water quality standpoint project is "good to go" for 10/14 start date.
LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
ELEVATION (approx.)	38.84	23.57	10	
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Walnut Creek Reach 98				10/14/2022
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results For October 14, 2022, Garo arrived on-site at 0750 to perform water quality sampling and monitoring at Walnut Creek Inlet Reach 98. Attached is a photo of downstream sampling point Located slightly over 1-1/2mile downstream and southwest of the upstream sampling point #1; Entrance is through locked gate on the west side of open-box channel off of Fairway Lane, w/o Grand Ave: Sampling point is in the bottom of open-box concrete channel in pool created by inflated rubber dam. The inflated rubber dam has been replaced and inflated and there straw paddles and sand bags to divert the water through the flood gate door open on the west side of the channel where water was diverging into the debris basin. No water sampling was done because the project did not meet Regional Water Quality Board permit requirements.
LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
ELEVATION (approx.)	38.84	23.57	10	
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Walnut Creek Reach 98				10/20/2022
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results For October 20, 2022, Garo arrived on-site at 1020 to perform post water quality sampling and monitoring at Walnut Creek Inlet Reach 98. Attached is a photo of downstream sampling point Located slightly over 1-1/2mile downstream and southwest of the upstream sampling point #1; Entrance is through locked gate on the west side of open-box channel off of Fairway Lane, w/o Grand Ave: Sampling point is in the bottom of open-box concrete channel in pool created by inflated rubber dam. The inflated rubber dam has been deflated for replacement and the sand bags are diverting water into west side inlet which leads to the spreading grounds. Post water sampling was not done because the project did not meet Regional Water Quality Board permit requirements.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Wilmington Drain				
9/12/2022				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	Pre-Clearing/Baseline
LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	For Monday, 9/12 – Garo arrived on-site about 0730 and met with Kyle Nicholson from Storm Water Maintenance Imperial Yard to perform baseline monitoring and sampling at Wilmington Drain. Due to the rain from Friday (09/09/2022) & Saturday (09/10/2022), the water flow had brown coloring and bad odor. There was lots of bulk items placed in the access road off of Lomita Blvd on the south side of the Wilmington Drain(photo attached). Baseline was done five (5) days before start date. Between 0732 and 0810, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/12 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/13. From a water quality standpoint, project is good to go for the proposed start of Friday 09/16/2022.
ELEVATION (approx.)	38.84	23.57	10	
TIME	7:55	7:32	8:10	
SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	
TEMPERATURE (°C)	24.3	23.5	24.1	
pH	5.66	7.49	7.37	
TURBIDITY (NTUs)	13.39	30.42	10.65	
DISSOLVED O ₂ (mg/L)	9.26	10.01	9.97	
TOTAL SUSPENDED SOLIDS (mg/L)	10.4	17.2	14.8	
Wilmington Drain				
9/16/2022				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	For Friday, 9/16 – 1st day of field work, Garo arrived on-site about 0940 and met with Kyle Nicholson from Storm Water Maintenance Imperial Yard to perform water quality monitoring and sampling at Wilmington Drain. Field crew were working in the channel on the north side of Lomita There was very heavy odor coming from the water on all three sampling points as well as light brown coloring in the water. Turbidity readings were high at internal and downstream due to the light brown coloring of the water Between 0942 and 1020, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 09/16 on 24-hour TAT Results for TSS will be available Monday afternoon, 09/19.
ELEVATION (approx.)	38.84	23.57	10	
TIME	10:20	9:42	10:00	
SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	
TEMPERATURE (°C)	23	21.7	22.6	
pH	8.06	7.76	7.54	
TURBIDITY (NTUs)	21.52	30.61	60.7	
DISSOLVED O ₂ (mg/L)	8.74	9.97	9.74	
TOTAL SUSPENDED SOLIDS (mg/L)	17.4	18.2	12	
Wilmington Drain				
9/17/2022				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	For Saturday, 9/17 – 2nd day of field work, Garo arrived on-site about 0950 and met with Richard Hunter from Storm Water Maintenance Imperial Yard to perform water quality monitoring and sampling at Wilmington Drain. Field crew continue to work in the channel on the north side of Lomita There was very heavy odor coming from the water on all three sampling points as well as light brown coloring in the water. There is also lots of small fishes in the water as well at both upstream and downstream points. Between 0957 and 1023, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/19 on 24-hour TAT Results for TSS will be available Tuesday afternoon, 09/20.
ELEVATION (approx.)	38.84	23.57	10	
TIME	9:57	10:08	10:23	
SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	
TEMPERATURE (°C)	21.9	21.4	21.2	
pH	7.5	6.73	7.39	
TURBIDITY (NTUs)	57.48	7.95	32.18	
DISSOLVED O ₂ (mg/L)	8.35	9.43	9.06	
TOTAL SUSPENDED SOLIDS (mg/L)	13	18.6	11	
Wilmington Drain				
9/19/2022				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	For Monday, 9/19 – 3rd day of field work, Garo arrived on-site about 0955 perform water quality monitoring and sampling at Wilmington Drain. Field crew continue to work in the channel on the north side of Lomita The upstream sampling point still has lots of debris in the water. Also lots of larva floating in the water at both the upstream and downstream points. The heavy odor continues at all three sampling points. Water is not clear with unknown substance floating. I notified Paul Lopez of the debris at the upstream sampling point. Between 1000 and 1023, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/19 on 24-hour TAT Results for TSS will be available Tuesday afternoon, 09/20.
ELEVATION (approx.)	38.84	23.57	10	
TIME	10:00	10:10	10:23	
SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	
TEMPERATURE (°C)	22.5	21.3	21	
pH	7	7.47	7.24	
TURBIDITY (NTUs)	78.03	7.37	20.04	
DISSOLVED O ₂ (mg/L)	9.65	9.53	9.35	
TOTAL SUSPENDED SOLIDS (mg/L)	13	17	45	

Wilmington Drain				9/20/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 20, 2022, 4th day of field work, Garo arrived on site about 0920, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the north side of Wilmington Drain (photo taken from the side of the access road off of Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Wilmington Drain				9/21/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 21, 2022, 5th day of field work, Garo arrived on site about 0927, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Wilmington Drain				9/22/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 22, 2022, 6th day of field work, Garo arrived on site about 0930, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Wilmington Drain				9/23/2022
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 23, 2022, 7th day of field work, Garo arrived on site about 0936, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions. GMED will now transition to weekly water quality sapling and monitoring.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Wilmington Drain		9/29/2022		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 29, 2022, 13th day of field work, Garo arrived on site about 0936, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions. GMED will now transition to weekly water quality sapling and monitoring.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Wilmington Drain		10/6/2022		
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results For October 06, 2022, Garo arrived on site about 0936, to perform post water quality sampling and monitoring at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Haines Canyon Channel		2/10/2023		
LATITUDE (approx.)				Pre-Clearing/Baseline For February 10, 2023, Garo arrived at 0815 on site and met with Manuel Moncada from Stormwater Maintenance Pickens Yard to perform baseline water quality sampling and monitoring at Haines Canyon Channel Reach 12. Baseline was done four (4) day before scheduled start date. Attached is a photo of the downstream sampling point located on the south bank of the channel about 594' west of the open-box concrete. No water flow present. Baseline water quality sampling and monitoring was not performed because the project did not meet Regional Water Quality Control Board permit requirements. GMED will now perform daily monitoring to the area to re-confirm conditions. The project is "good to go" for February 10, 2023.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Haines Canyon Channel		2/14/2023		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For February 14, 2023, Isaac arrived at 9:30 on site to perform water quality sampling and monitoring at Haines Canyon Channel Reach 12. Attached is a photo of the downstream sampling point located on the south bank of the channel about 594' west of the open-box concrete. No water flow present. Water quality sampling and monitoring was not performed because the project did not meet Regional Water Quality Control Board permit requirements. GMED will continue daily monitoring to the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Haines Canyon Channel		2/15/2023		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For February 15, 2023, Isaac arrived at 0700 on site to perform water quality sampling and monitoring at Haines Canyon Channel Reach 12. Attached is a photo of the downstream sampling point located on the south bank of the channel about 594' west of the open-box concrete. No water flow present. Water quality sampling and monitoring was not performed because the project did not meet Regional Water Quality Control Board permit requirements. GMED will continue daily monitoring to the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Haines Canyon Channel		2/16/2023		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For February 16, 2023, Isaac arrived at 1030 on site to perform water quality sampling and monitoring at Haines Canyon Channel Reach 12. Attached is a photo of the downstream sampling point located on the south bank of the channel about 594' west of the open-box concrete. No water flow present. Water quality sampling and monitoring was not performed because the project did not meet Regional Water Quality Control Board permit requirements. GMED will continue daily monitoring to the area to re-confirm conditions.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Haines Canyon Channel		2/21/2023		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For February 21, 2023, Isaac arrived at 0900 on site to perform water quality sampling and monitoring at Haines Canyon Channel Reach 12. Attached is a photo of the downstream sampling point located on the south bank of the channel about 594' west of the open-box concrete. No water flow present. Stormwater maintenance crew finished operations. Water quality sampling and monitoring was not performed because the project did not meet Regional Water Quality Control Board permit requirements.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

Kagal Canyon Channel				4/6/2023
LATITUDE (approx.)				Pre-Clearing/Baseline
LONGITUDE (approx.)				<p>For Thursday 04/06, Garo arrived on-site at 1215 and met with Gozalo Delgadillo from Stormwater Maintenance Hansen Yard to perform baseline water quality sampling and monitoring for the retaining wall repair at Kagal Canyon. Attached photos are the plastic pipes used to divert water away from the retaining wall as well as the trailway just southeast of Osborne Street where the water flow coming down the soft bottom channel of Kagal Canyon intersecting Little Tujunga Creek water flow. The water flow coming down from Kagal Canyon is percolated underground the soil several feet before the Little Tujunga Creek. Baseline was not performed because this did not meet because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will be evaluating the area to re-confirm conditions. From a water quality stand point, project is "good to go" on Monday 04/10.</p>
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Kagal Canyon Channel				
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)				<p>For Monday 04/10, Garo arrived on-site at 0750 to perform water quality sampling and monitoring for the retaining wall repair at Kagal Canyon. Attached photos of the channel creek both sides of the Osborne Bridge. The field crew placed sand bags a few feet from the soft bottom channel and concrete area of the channel which decreased the water flow making its way to the trail on east side of the bridge. The water flow goes only 150 feet east of the Osborne Bridge before percolating underground. Water quality sampling was not performed because this did not meet because the site did not meet Regional Water Quality Control Board (RWQCB). Please contact GMED if any changes of the conditions occur.</p>
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

ATTACHMENT NO. 7

CURRENT WASTE DISCHARGE REQUIREMENTS AND
CLEAN WATER ACT SECTION 401 WATER QUALITY
CERTIFICATIONS, ORDER NO. RE-2018-0099, FILE
NO. 99-011

[This page is intentionally left blank]



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

July 31, 2018

Daniel J. Lafferty
Assistant Deputy Director
Los Angeles County Dept. of Public Works
900 S. Fremont Ave, Annex 2nd Floor
Alhambra, CA 91803

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED
No. 7008 1140 0002 8672 0727

Dear Mr. Lafferty,

TRANSMITTAL OF THE WASTE DISCHARGE REQUIREMENTS AND CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION FOR LOS ANGELES COUNTY FLOOD CONTROL DISTRICT MAINTENANCE CLEARING OF ENGINEERED EARTH-BOTTOM CHANNELS FOR FLOOD CONTROL, LOS ANGELES COUNTY, ORDER No. R4-2018-0099 (FILE No. 99-011)

In accordance with the California Water Code, the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board), at a public meeting held on July 12, 2018, reviewed the revised, tentative Waste Discharge Requirements and Clean Water Act Section 401 Water Quality Certification for the subject project, considered all factors in the case and adopted Order No. R4-2018-0099. Order No. R4-2018-0099 is issued to the Los Angeles County Flood Control District (LACFCD).

Order No. R4-2018-0099 (without attachments) is attached. Order No. R4-2018-0099 and all of its attachments may also be accessed on the Los Angeles Water Board's website at:

http://www.waterboards.ca.gov/losangeles/water_issues/programs/401_water_quality_certification/FloodControl.shtml

Should you have questions concerning Order No. R4-2018-0099, or to schedule a meeting with us, please contact Valerie CarrilloZara, P.G., at (213) 576-6759 or Dr. LB Nye at (213) 576-6785.

Sincerely,



for Deborah J. Smith
Executive Officer

Attachment: Final WDR

cc: [via email only]

Jennifer Fordyce, State Water Resources Control Board
Elizabeth Payne, State Water Resources Control Board
Nandini Moran, Los Angeles County Flood Control District
Sree Kumar, Los Angeles County Flood Control District
Dan Sharp, Los Angeles County Flood Control District
Tracy J. Egoscue, Egoscue Law Group, Inc.
Erinn Wilson, California Department of Fish and Wildlife
Matt Chirdon, California Department of Fish and Wildlife
Bonnie Rodgers, US Army Corps of Engineers
Elizabeth Goldmann,, U.S. Environmental Protection Agency, Region 9

Los Angeles Regional Water Quality Control Board

ORDER NO. R4-2018-0099
WASTE DISCHARGE REQUIREMENTS AND
CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION

Effective Date: July 12, 2018

Program Type: Fill/Excavation

Project Type: Channel Construction and Maintenance¹

Project: Maintenance Clearing of Engineered Earth-Bottom Channels for Flood Control (Project)

Applicant: Los Angeles County Flood Control District

Applicant Contacts: Mr. Sree Kumar, Asst. Deputy Director
Los Angeles County Flood Control District
900 S. Fremont Avenue
Alhambra, CA 91803
Phone: (626) 458-4145

Ms. Nandini Moran
Los Angeles County Flood Control District
900 S. Fremont Avenue
Alhambra, CA 91803
Phone: (626) 458-7810
Email: ntmoran@dpw.lacounty.gov

Water Board Contact: Valerie CarrilloZara
Lead, 401 Certification Unit
320 W. 4th Street, Suite 200
Los Angeles, CA 90013
Phone: (213) 576-6759
Email: Valerie.Carrillozara@waterboards.ca.gov

Reg. Meas. ID:	401529
Place ID:	815900
WDID:	4WQC40199011
NWP	31
USACOE#:	SPL-2013-00723-BLR

¹ Project type is selected from a preset list of project types to allow for calculation of statewide summary statistics. While this project is most appropriately categorized as "Channel Construction and Maintenance," note that these waste discharge requirements (WDRs) and Clean Water Act section 401 water quality certification does not authorize any new channel construction.

Table of Contents

I.	Order	4
II.	Public Notice	4
III.	Project Purpose	4
IV.	Project Description and Background	4
a.	General Background	4
b.	Regulatory Authorities	7
c.	Regulatory History	8
d.	Earth-bottom Channel Watersheds and Stormwater Plans	13
V.	Description of Direct Impacts to Waters of the State	15
VI.	Avoidance and Minimization	15
VII.	Antidegradation Policies and California Environmental Quality Act (CEQA)	16
VIII.	Petition for Reconsiderationand/or Review to the State Water Board	16
IX.	Fees Received	16
X.	Permitted Activities	17
a.	Vegetation and Sediment Clearing	17
b.	Maintenance of Existing Invert Access Ramps	17
c.	Outlets, minor repairs and equipment maintenance	18
XI.	Prohibitions	18
XII.	Conditions	19
a.	Authorization	19
b.	Reporting and Notification Requirements	19
c.	Pilot Projects	23
d.	Continued Avoidance and Minimization	23
e.	Continued Outreach to stakeholders	24
f.	Water Quality Monitoring	24
g.	Standard	25
h.	General Compliance and Enforcement	26
i.	Administrative	27
j.	Mitigation for Temporary Impacts	27
k.	Compensatory Mitigation for Permanent Impacts	28

I. Best Management Practices 28
XIII. Water Quality Certification..... 31
XIV. Effective Date and Term 31

Attachment A Master Maintenance Plan (June 2018)
Attachment B Summary of Revisions to Maintenance Manual
Attachment C Reporting Requirements
Attachment D 2016 Water Diversion Manual (Attachment D is Attachment H of the Master
Maintenance Plan, included here as a separate document)
Attachment E 2016 Water Quality Monitoring Guide (Attachment E is Attachment G of the Master
Maintenance Plan, included here as a separate document)

The California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board) finds that:

I. Order

This Order for Waste Discharge Requirements and Clean Water Act section 401 Certification (Order) is issued at the request of Los Angeles County Flood Control District (LACFCD) for the Project. This Order is for the purpose described in the application and supplemental information submitted by the LACFCD.

The application was received on March 21, 2018. On March 30, 2018, Los Angeles Water Board staff issued a notice of incomplete application and the LACFCD responded to the request for application information on April 10, 2018. The application was deemed complete on April 13, 2018.

II. Public Notice

The Los Angeles Water Board has notified the LACFCD and other interested agencies and persons of its intent to prescribe waste discharge requirements (WDRs) and issue a Clean Water Act Section 401 Water Quality Certification for this discharge and has provided an opportunity to submit comments. The Los Angeles Water Board provided public notice of the draft order pursuant to California Code of Regulations, title 23, section 3858 and Water Code section 13167.5. A tentative order was released for public comment on April 18, 2018. Written comments were accepted until 5:00 p.m. on May 18, 2018. The Los Angeles Water Board, in a public meeting on June 14, 2018, heard and considered all comments pertaining to this Order.

III. Project Purpose

The purpose of the Project is to maintain adequate capacity in engineered earth-bottom channels (also referred to as engineered soft-bottom channels), which are a critical part of the LACFCD's flood control facilities in order to reduce the risk of loss of life or property that could result from flooding during large storm events, while simultaneously protecting water quality and beneficial uses of these channels.

IV. Project Description and Background

a. General Background

1. LACFCD (Discharger) is responsible for providing flood control throughout Los Angeles County to enhance public safety. LACFCD is responsible for more than 2,700 square miles and approximately 2.1 million land parcels within 6 major watersheds. This includes flood control facilities consisting of 3,380 miles of underground storm drains; an estimated 173 debris basins; an estimated 82,000 catch basins; 14 major dams and reservoirs; and 483 miles of open channel including natural, earthen-bottom (i.e., concrete or riprap sides with a natural bottom that may support vegetation), and concrete channels.
2. In order to reduce the risk of loss of life or property that could result from flooding during large storm events, LACFCD conducts activities to maintain adequate capacity in flood control facilities. LACFCD is authorized to perform such maintenance pursuant to the Los Angeles County Flood Control Act (Water Code Appendix § 28-2).
3. Many of the channels, basins and reservoirs maintained by LACFCD as flood control facilities are Waters of the United States (U.S.) and Waters of the State of California.

4. Maintaining the flood control system in Waters of the U.S. and Waters of the State of California requires discharge permits for these dredge and fill activities from the Army Corps of Engineers (ACOE), California Department of Fish and Wildlife (CDFW) and the Los Angeles Water Board. For dredge and fill activities such as channel clearing, the Clean Water Act (CWA) requires permitting from ACOE under CWA section 404 (404 permit) and Water Quality Certification by the State under CWA section 401 (401 Certification). In addition, under California Fish and Game Code section 1600, such activities are also regulated by a Streambed Alteration Agreement (SAA) issued by the CDFW.
5. WDRs and 401 Certifications issued by the Los Angeles Water Board to LACFCD for maintenance of its flood control facilities are designed to allow maintenance of established flood control function through removal of recent accumulated sediment or vegetation and routine minor structural repairs. The WDRs and 401 Certifications do not allow for any alteration of channel design. WDRs and 401 Certifications issued by the Los Angeles Water Board to LACFCD for maintenance of flood control facilities do not authorize additional hardscape, concrete, or rock in Waters of the U.S. and Waters of the State of California.
6. The Los Angeles Water Board regulates the following dredge and fill activities associated with LACFCD's maintenance of its flood control facilities: maintenance of 172 debris basins (File No. 02-144), maintenance of concrete channels (File No. 13-029), maintenance of earthen-bottom channels (this WDR and 401 Certification), and individual project Water Quality Certifications for major repairs or renovations to flood control facilities and emergency projects.
7. LACFCD maintains 96 earthen-bottom channels through this WDR and 401 Certification. The 96 channels include a total of approximately 43 miles of waterways throughout Los Angeles County and approximately 1,276 acres of jurisdictional waters of the United States. The acreage authorized to be impacted by this Order is 734 acres.
8. Development of natural areas and redevelopment projects in Los Angeles County may alter or add to or subtract from the number of required flood control facilities and may alter the hydrology of waters. Plans and new goals for water use in Los Angeles County (as detailed in Findings 70-75) may contribute to changes in hydrology and the need for more or less flood control capacity and the need for altered or more or fewer flood control facilities. Through the requirements of WDRs and 401 Certifications issued by the Los Angeles Water Board to LACFCD for maintenance of its flood control facilities, the Los Angeles Water Board has taken into account changes of the nature described above, and will continue to do so where appropriate in its future permitting actions regarding LACFCD's maintenance of earthen-bottom channels.
9. LACFCD maintains flood control facilities to meet a number of different requirements, depending on when the flood control facility was built and which agency built it; in some cases, LACFCD must protect for a 100-year storm.
10. Many of the flood control channels maintained by LACFCD were built with federal funds and turned over to LACFCD for maintenance. As such, LACFCD is required to maintain the channel as designed and without debris and vegetative growth. In order to change a maintenance requirement, LACFCD must apply under section 14 of the Rivers and Harbors Act of 1899, codified at 33 U.S.C. section 408 (commonly referred to as "Section 408"), for modification of federally required maintenance requirements with the ACOE.

11. Post-Hurricane Katrina, the ACOE instituted Risk and Uncertainty analysis requirements for changes to federal flood control facilities. Alteration of federally-required maintenance may trigger the need for a ACOE Risk and Uncertainty analysis. A Risk and Uncertainty analysis is a statistical analysis that takes into account the uncertainty of the hydrology and hydraulics and related consequences.
12. LACFCD maintains levees in accordance with the Federal Emergency Management Agency (FEMA). FEMA administers the National Flood Insurance Program (NFIP). In order to obtain FEMA accreditation for the levees, LACFCD is required to demonstrate that maintenance of the levees will ensure their stability, height, and overall integrity in order to continue providing protection to the adjacent residents.
13. While FEMA accredits levees as meeting requirements set forth by the NFIP, the ACOE addresses operation and maintenance, risk management, and risk reduction levee needs as part of its responsibilities under the ACOE's Levee Safety Program. The ACOE inspects levees in Los Angeles County and may require risk reduction improvements to the levees by LACFCD.
14. LACFCD maintains various stations throughout the County to monitor flow and water quality. These stations consist of temporary and/or permanent houses with attached gauges, conduits, pumps, sensors, and probes typically placed in the invert of the channel. The houses may be mounted on bridges and/or other structures along several watercourses in the County. In order to obtain accurate data, the flow adjacent to the gauges, conduits, pumps, sensors, and probes must be laminar (i.e., non-turbulent). Routine maintenance, inspection and calibration, including clearance of accumulated sediment and/or vegetation within three feet of the water quality monitoring equipment may need to be conducted during dry weather to ensure proper operation.
15. During the storm season (October 15 to April 15), LACFCD personnel continually monitor flow conditions in channels and inspect facilities.
16. Urgent work conducted during and immediately after storm events is usually not routine maintenance, but instead, may be an emergency. Emergency is defined as, "a sudden, unexpected, occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services. Emergency includes such occurrences as fire, flood, earthquake, or other soil or geologic movement, as well as such occurrences as riot, accident, or sabotage." Any project that is necessitated due to imminent threat to life or property is subject to ACOE Regional General Permit 63 (RGP 63) as certified by the State Water Resources Control Board (State Water Board) on November 25, 2013.
17. LACFCD has developed and complies with a Hazard Analysis and Critical Control Points (HACCP) for Malibu and Santa Monica Canyon watersheds to limit the spread of invasive New Zealand mudsnail and giant reed (*Arundo donax*), dated April 1, 2010.
18. LACFCD has developed and published watershed maps, which indicate types of vegetation present in the channel reaches and approximate schedules (including baseline biological surveys, post-surveys and maintenance activity descriptions). This information has been made publicly available on the LACFCD website since 2010. For each reach, the information includes: (a) the proposed schedule; (b) a description of the reach's existing condition; (c) the area of proposed impact; and (d) a description of any existing aquatic resources (e.g.,

wetland/riparian vegetation based on readily available information and pre-clearing biological surveys).

19. Los Angeles County maintains a GIS Data Portal where LACFCD facilities information is available to the public in GIS (geographic information system) mapping format.

b. Regulatory Authorities

20. The Project is located within the jurisdiction of the Los Angeles Water Board. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the applicable water quality control plan (Basin Plan) for the region and other plans and policies which may be accessed online at: http://www.waterboards.ca.gov/plans_policies/. The Basin Plan establishes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.
21. The State of California regulates most dredge and fill discharges through 401 Certifications and may also regulate such discharges through WDRs as authorized by the California Water Code (CWC). Pursuant to CWC section 13263, the Los Angeles Water Board is authorized to prescribe WDRs for any proposed or existing discharge unless WDRs are waived pursuant to Water Code section 13269.
22. The Los Angeles Water Board has determined to regulate the subject discharge of dredge and fill materials into waters of the State by issuance of WDRs in this Order pursuant to CWC section 13263. The Los Angeles Water Board considers WDRs necessary to adequately control potential impacts to beneficial uses of waters of the U.S. and waters of the State from these maintenance activities, which primarily involve clearing, to meet the objectives of the California Wetlands Conservation Policy (Executive Order W-59-93) and to accommodate and require appropriate changes over the life of the project.
23. The goals of the California Wetlands Conservation Policy (Executive Order W-59-93, signed August 23, 1993) include ensuring “no overall loss” and achieving a “...long-term net gain in the quantity, quality, and permanence of wetland acreage and values...” Senate Concurrent Resolution No. 28 states that “[i]t is the intent of the legislature to preserve, protect, restore, and enhance California’s wetlands and the multiple resources which depend on them for benefit of the people of the State.” Section 13142.5 of the CWC requires that the “[h]ighest priority shall be given to improving or eliminating discharges that adversely affect...wetlands, estuaries, and other biologically sensitive areas.”
24. CWC section 13263 authorizes the Los Angeles Water Board, after any necessary hearing, to prescribe requirements as to the nature of any proposed discharge with relation to the conditions existing in the disposal area or receiving waters upon, or into which, the discharge is made or proposed. The requirements must implement any relevant water quality control plans that have been adopted, and shall take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste discharges, the need to prevent nuisance, and the provisions of CWC section 13241. In accordance with subdivision (g) of section 13263, all discharges of waste into the waters of the State are privileges, not rights, and the WDRs in this Order shall not create a vested right to continue to discharge and are subject to rescission or modification.

25. Pursuant to CWC section 13267, the Los Angeles Water Board, in establishing or reviewing any water quality control plan or waste discharge requirements, or in connection with any action relating to any plan or requirement authorized by Division 7 of the CWC, may investigate the quality of any waters of the state within its region. In conducting such an investigation, the Los Angeles Water Board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, shall furnish, under penalty of perjury, technical or monitoring program reports which the regional water board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. The WDRs contained in this Order incorporate requirements for water quality monitoring, and project reporting, which are necessary to ensure that the discharge of waste complies with WDRs and is protective of the environment.
26. The Los Angeles Water Board, on June 13, 1994, adopted, in accordance with section 13240 et seq. of the CWC, a revised Water Quality Control Plan for the Los Angeles Region (Basin Plan). This updated and consolidated revised Basin Plan was approved by the State Water Board and the Office of Administrative Law on November 17, 1994, and February 23, 1995, respectively. A summary of regulatory provisions is contained in California Code of Regulations, title 23, section 3930. The Basin Plan designates beneficial uses for surface and ground waters in Chapter 2, establishes water quality objectives that must be attained or maintained to protect the designated beneficial uses in Chapter 3, and sets forth implementation programs to attain the water quality objectives. The Basin Plan has been amended occasionally since 1994. This Order is in compliance with the Basin Plan, and amendments thereto.
27. The WDRs in this Order are adopted pursuant to CWC sections 13263 and 13267. It sets forth requirements, prohibitions, and other conditions to implement the Basin Plan, and LACFCD's responsibilities for monitoring and reporting. LACFCD is responsible for ensuring compliance with the WDRs.
28. It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by requiring discharges to meet maximum contaminant levels designed to protect human health and ensure that water is safe for domestic use.

c. Regulatory History

29. The Los Angeles County Flood Control Act (Act) was adopted by the California State Legislature in 1915. The Act established the Los Angeles County Flood Control District and empowers it to provide flood protection, water conservation, recreation and aesthetic enhancement within its boundaries. LACFCD is governed, as a separate entity, by the County of Los Angeles Board of Supervisors.
30. In 1997, LACFCD proposed complete clearing of 100 earthen-bottom channels in anticipation of the El Niño storm season, encompassing a total of 886 acres. Of this acreage, approximately 203 acres were vegetated.
31. LACFCD developed a Maintenance Plan for the Annual Clearing of Earth-Bottom Flood Control Channels in 1999 (1999 Maintenance Plan) in collaboration with the ACOE, CDFW (then California Department of Fish and Game (CDFG)) and the Los Angeles Water Board.

The 1999 Maintenance Plan has been published under later dates, but all versions of the Maintenance Plan define the scope of channel clearance by the 1997 pre-El Niño clearing levels.

32. The ACOE permitted LACFCD's vegetation and debris clearing maintenance activities under the CWA Section 404 Nationwide Permit 31 "Maintenance of Existing Flood Control Facilities" in 1998. The Los Angeles Water Board issued a CWA Section 401 Water Quality Certification for these activities in 1999 (File No. 99-011). Also in 1999, LACFCD and CDFW (then CDFG) entered into a Streambed Alteration Agreement, Memorandum of Understanding (MOU 5-076-99). When permitting these activities in 1998 and 1999, the ACOE and the Los Angeles Water Board developed the first programmatic permit and 401 Certification for the earth-bottom channel maintenance activities.
33. The ACOE and the Los Angeles Water Board utilized clearing limits developed for the 1997 pre-El Niño clearing. However, the Los Angeles Water Board recognized the need to ultimately develop a more comprehensive plan beyond direct use of the 1997 clearing limits that would allow vegetation and the associated habitat to be preserved within these earthen-bottom channels to the maximum extent feasible. At that time, the 404 permit and 401 Certification only authorized clearing activities in 48.2 acres of the approximately 203 vegetated acres.
34. To mitigate the 48.2 acres impacted by removal of vegetation, the Big Tujunga Wash Mitigation Area was established in accordance with the *Master Mitigation Plan for the Big Tujunga Wash Mitigation Bank* (Final Plan dated April 2000), which contains 62.7 acres (achieving a 1.3:1 mitigation ratio).
35. The success criteria for the Big Tujunga Wash Mitigation Area have been met. Field data collection for the functional analysis and success monitoring studies was conducted in August 2012 and reported in the 2012 Annual Report for the Big Tujunga Wash Mitigation Area.
36. LACFCD continues to maintain the Big Tujunga Wash Mitigation Area to ensure its long-term sustainability and that of the resident aquatic resources. The Big Tujunga Wash Mitigation Area's Long-Term Management Plan has been drafted but is not finalized. LACFCD is working with the CDFW to finalize the draft.
37. The ACOE, after evaluation of updated information, has reissued the 404 permit under Nationwide Permit 31 for these channel maintenance activities by the LACFCD every five years since 1998. The Nationwide Permit was re-issued on May 11, 2018.
38. The number of earth-bottom channel reaches authorized for maintenance under the ACOE 404 permit has changed during each permit cycle due to channels being combined, removed, or added. The ACOE divides channels into reaches that it considers to be sensitive and non-sensitive based on a Biological Opinion from the U.S. Fish and Wildlife Service. The ACOE normally incorporates special conditions such as avoidance of nesting seasons or hand clearing, for reaches it deems to be sensitive.
39. In 2003, the State Water Board issued Order No. 2003-0017-DWQ, "General Waste Discharge Requirements for Dredge and Fill Discharges that have received State Water Quality Certification," which requires compliance with all conditions of Water Quality Certifications. The 2003 State Water Board Order included regulation of discharges from earthen-bottom channel maintenance.

40. The 401 Certification was renewed by the Los Angeles Water Board on October 17, 2003, conditionally authorizing maintenance of 99 earthen-bottom channels. The Los Angeles Water Board extended the October 17, 2003 Water Quality Certification by letter on September 10, 2007 until March 15, 2008, and extended it by letter again on August 29, 2008 until January 31, 2009.
41. On February 4, 2010, the Los Angeles Water Board issued WDRs (Order No. R4-2010-0021, 2010 WDRs) to the LACFCD. The 2010 WDRs included 10 new channel reaches authorized to be cleared in addition to the reaches included in the previous 401 Certification. The 2010 WDRs also acted as 401 Certification for those 10 reaches.
42. As an outgrowth of the original Maintenance Plan development and the incomplete effort in 2008 to further develop an understanding of the hydrology and biological functions for each reach in order to reform and improve the required channel clearing and to make the basis transparent to the Los Angeles Water Board and the public, the 2010 WDRs required "Feasibility Studies" for each watershed, stating "...LACFCD shall implement the Feasibility Study process with a schedule of one or more watersheds per year to be analyzed, with completion of all watersheds/studies within six (6) years. LACFCD shall solicit input from stakeholders during Work Plan development and prior to the finalizing the Technical Assessment Report and recommendations..."
43. The Feasibility Studies of the 2010 WDRs were to determine where a potential may exist for native vegetation to remain within the earth-bottom portion of the channel. The Feasibility Studies also required identification of any channels that could potentially provide restoration opportunities for riparian habitat.
44. The required analyses were split over multiple years to allow LACFCD flexibility in completing the required studies. The data and technical ability necessary to conduct the required analyses exists within LACFCD.
45. LACFCD completed three Feasibility Study Workplans, including the Los Angeles River watershed (July 2010), the San Gabriel River watershed (January 2013) and the Malibu and Dominguez Channel (April 2014) watersheds prior to the expiration of the 2010 WDRs in 2015.
46. LACFCD finalized the Los Angeles River Feasibility Study in August 2013 after public notice and a public meeting. Results of these analyses conducted during the Los Angeles River Feasibility Study were presented to stakeholders at a technical workshop on June 24, 2013.
47. On February 12, 2015, the Los Angeles Water Board renewed WDRs and 401 Certification for the discharges associated with channel clearing activities in Los Angeles County (2015 WDRs) by adopting Order No. R4-2015-0032. The term of the renewed 2015 WDRs was one year.
48. Los Angeles Water Board direction to Los Angeles Water Board staff, upon issuance of the renewed 2015 WDRs, included:
 - i. Ensure transparency and clarity with regards to the use and results of LACFCD and ACOE hydraulic models to determine channel capacities and reaches where more vegetation can remain;

- ii. Facilitate greater involvement of interested non-governmental stakeholder groups in discussions and, where possible, crafting of recommendations, regarding channel clearing activities, particularly in the Los Angeles River in light of river restoration and revitalization efforts; and
 - iii. Coordinate principles and discussions related to activities regulated under this WDR with other water resource management efforts such as efforts to increase stormwater retention, beneficial use protection and enhancement, and river restoration projects.

- 49. Los Angeles Water Board staff and LACFCD staff initiated a series of in-depth discussions, referred to as “WDR Working Group Meetings,” with interested stakeholder groups including Friends of the Los Angeles River, Arroyo Seco Foundation, Heal the Bay, The Nature Conservancy, Mountains Restoration Conservation Authority, San Fernando Valley Audubon, and Santa Clara Organization for Planning the Environment, which also included participation by ACOE, CDFW, and California Coastal Commission. Nine meetings were held between April 2, 2015 and December 15, 2015. Agendas, presentations, meeting notes and sign-in sheets are available at <https://dpw.lacounty.gov/lacfcd/WDR/workgroup.aspx>.

- 50. During these WDR Working Group Meetings, the group prioritized its discussions and pilot efforts on the lower reaches of the Los Angeles River and:
 - i. Discussed and raised the level of understanding of hydraulic models used in Feasibility Studies;
 - ii. Reviewed the channel maintenance obligations of the LACFCD, including ACOE requirements for ACOE-built channels, levee safety requirements, and FEMA requirements;
 - iii. Reviewed concerns of environmental and conservation organizations, including Friends of the Los Angeles River and Heal the Bay, especially pertaining to the lower Los Angeles River and Compton Creek;
 - iv. Discussed results of a new Risk and Uncertainty analysis required for ACOE-built channels, as applied to Reach 25 of the Los Angeles River. As requested by stakeholders at the WDR Working Group Meetings, a reanalysis of the Los Angeles River was conducted by LACFCD. The results of this analysis and a discussion of the methodology used were provided at the WDR Working Group Meetings over several sessions. LACFCD also performed the ACOE’s new Risk and Uncertainty analysis on Los Angeles River Reach 25 and results were provided at the WDR Working Group Meetings; and
 - v. Identified, and then reviewed, results of a pilot project employing an alternative clearing method of mowing instead of scraping to remove vegetation in the lower Los Angeles River (Reach 25) and Compton Creek.

- 51. In addition to the analyses conducted for the Los Angeles River Feasibility Study, and as part of the WDR Working Group Meetings held throughout 2015, the LACFCD conducted additional analyses on the reaches of the Los Angeles River and presented the preliminary results of this additional analysis to Los Angeles Water Board staff and stakeholders participating in the WDR Working Group. Of the 25 reaches in the Los Angeles River Watershed, the Los Angeles River Feasibility Study Report identified eight reaches where additional native vegetation or the replacement of non-native vegetation with native vegetation could occur. No change in current maintenance vegetation clearance practices was recommended for eleven reaches due to insufficient hydraulic capacity for additional vegetation. In six reaches, additional vegetation removal may be required.

- 52.** The lower reaches of the Los Angeles River were a priority for the WDR Working Group, however, because the engineered aspects of the lower reaches of the Los Angeles River were constructed by the ACOE, there are additional federal requirements that must be met before changing the characteristics of the channel, and therefore, the level of flood protection. LACFCD hired WEST Consultants to perform an evaluation of the lower reach of Los Angeles River (Reach 25) using the Army Corps of Engineers' Risk and Uncertainty analysis. A Risk and Uncertainty analysis is a statistical analysis that takes into account the uncertainty of the hydrology, hydraulics, and consequences. The preliminary results of this analysis show there is an 80% probability that the 133-year flood's water surface elevation would be below the as-constructed top of levee elevation in Los Angeles River Reach 25. The 133-year flood is the federal standard for this reach.
- 53.** As the ACOE continues to define the relatively new Risk and Uncertainty analysis requirements, LACFCD will look for opportunities to work with the ACOE and will be able to consider applying to the ACOE to modify channel clearing activities in this reach.
- 54.** On December 10, 2015, Los Angeles Water Board staff, joined by staff from the LACFCD, ACOE, Friends of the Los Angeles River, Heal the Bay and Santa Clara Organization for Planning and the Environment, presented an information item to the Los Angeles Water Board to report on the progress of the WDR Working Group Meetings.
- 55.** LACFCD finalized the San Gabriel River Feasibility Study in January 2016 after public notice. The San Gabriel River Feasibility Study was discussed at a WDR Working Group Meeting on February 12, 2016. All of the San Gabriel River maintained reaches are federally-built reaches and must be maintained to meet federal design standards. As such, the study concluded there was no opportunity to alter requirements without ACOE participation and likely the need for a Risk and Uncertainty analysis. Therefore, the consensus of the WDR Working Group was that further discussions at an additional public meeting was unnecessary.
- 56.** On February 11, 2016, the Los Angeles Water Board amended the 2015 WDRs, Order No. R4-2015-0032 (Order No. R4-2015-0032-A1) for discharges associated with channel clearing activities in Los Angeles County (2016 WDRs). The amendment extended the WDRs for approximately two and a half years and continued the requirements for Feasibility Studies and WDR Working Group meetings. The term of the 2016 WDRs expired on July 20, 2018.
- 57.** LACFCD and the Los Angeles Water Board staff continued the WDR Working Group meetings with interested stakeholder groups including Friends of the Los Angeles River, Arroyo Seco Foundation, Heal the Bay, and The Nature Conservancy, along with participation by CDFW. Nine more meetings were held between February 18, 2016 and July 20, 2017. Agendas, presentations, meeting notes and sign-in sheets are available at <https://dpw.lacounty.gov/lacfcd/WDR/workgroup.aspx>.
- 58.** During these continued WDR Working Group Meetings, the group has:

 - i.** Discussed the Feasibility Studies and reviewed reaches where there was potential for additional vegetation (where there was additional flood capacity) based on LACFCD recommendations for those reaches;
 - ii.** Reviewed the maps LACFCD has made available to the public, including GIS layers of LACFCD facilities;
 - iii.** Discussed water quality sampling required in the WDR relative to other monitoring in these channels;

- iv. Further discussed results of a pilot project employing an alternative clearing method of mowing instead of scraping to remove vegetation in the lower Los Angeles River (Reach 25) and Compton Creek (Reach 24);
 - v. Reviewed pilot projects in Bull Creek (Reach 7) and Pickens Canyon (Reach 19) to let more native vegetation remain during clearing activities; and
 - vi. On September 15, 2016, held a field meeting adjacent to Compton Creek to observe clearing activities, equipment used, and Best Management Practices implemented to minimize impact during the maintenance activities. Questions by staff from Friends of the Los Angeles River and Heal the Bay regarding habitat and water quality monitoring during these activities were addressed.
59. LACFCD finalized the Malibu Creek and Dominguez Channel Feasibility Study in September 2016 after public notice and a public meeting on May 25, 2016.
60. LACFCD finalized the Santa Clara River and Antelope Valley Feasibility Study in August 2017 after public notice and a public meeting on February 1, 2018.
61. As of the finalization of the Santa Clara River and Antelope Valley Feasibility Study, all Feasibility Studies requirements are complete. A summary of all revisions for every reach is in Attachment B to this Order, Summary of Revisions to Maintenance Manual. Appropriate modifications to maintenance activities have been incorporated into the Master Maintenance Plan June 2018) included as Attachment A of this Order.
62. On March 21, 2018, the Los Angeles Water Board received the LACFCD's Report of Waste Discharge (ROWD), which served as application for reissuance of WDRs and 401 Certification for its maintenance activities, which primarily involve clearing, in earthen-bottom channels. The ROWD included a revised draft Master Maintenance Plan containing maps and the scope of work for each reach in one place. This Master Maintenance Plan incorporates revised scopes of work for previously authorized reaches, sensitive or non-sensitive status (per the U.S. Fish and Wildlife Service's Biological Opinion) and an updated list of reach numbers. This ROWD did not include previously authorized reaches 34, 74, 106 and 107. Reach 34 has been transferred to the City of Agora Hills. LACFCD does not have right-of-way for reaches 74, 106 and 107.

d. Earth-bottom Channel Watersheds and Stormwater Plans

63. The reaches for which maintenance activities, which primarily involve clearing, are covered by this Order are located in the Los Angeles River watershed, San Gabriel River watershed, Santa Clara River watershed, Malibu Creek watershed, and Dominguez Channel watershed. Maps and latitude/longitude coordinates of all included reaches are in the Master Maintenance Plan included as Attachment A of this Order.
64. The reaches for which maintenance activities, primarily clearing, are covered by this Order provide unique ecosystems and habitat for native vegetation and sensitive species.
65. The Los Angeles River flows 51 miles from the western end of the San Fernando Valley to the Pacific Ocean at Long Beach and includes several major tributaries including Tujunga Wash, Burbank Western Channel, Arroyo Seco, Rio Hondo, and Compton Creek. The Los Angeles River watershed comprises an area of about 834 square miles. Of this area, the incorporated

cities and unincorporated portion of Los Angeles County comprise 599 square miles. The remaining watershed consists of the Angeles National Forest.

66. The San Gabriel River watershed comprises a 682 square mile area of eastern Los Angeles County and has a main channel length of approximately 58 miles. It originates in the San Gabriel Mountains and flows through heavily developed areas before emptying into the Pacific Ocean in Long Beach. The main tributaries of the river are Walnut Creek, San Jose Creek, and Coyote Creek. In the middle of the watershed are large spreading grounds used for groundwater recharge. The watershed is hydraulically connected to the Los Angeles River through the Whittier Narrows Reservoir (occurring mostly during high storm flows).
67. The Santa Clara River is approximately 100 miles long and the watershed comprises approximately 1,200 square miles. The river originates on the northern slope of the San Gabriel Mountains in Los Angeles County, traverses Ventura County, and flows into the Pacific Ocean halfway between the cities of San Buenaventura and Oxnard. Large tributaries include Sespe, Piru and Santa Paula Creeks and a lagoon exists at the mouth of the river. Land use is predominately open space with concentrations of residential, agriculture, and some industrial uses along the mainstem of the river. The Santa Clara River is the largest river system in southern California that remains in a relatively natural state; this is a high quality natural resource for much of its length.
68. The Malibu Creek watershed comprises 109 square miles. The watershed extends from the Santa Monica Mountains and adjacent Simi Hills to the Pacific Coast at Santa Monica Bay. Several creeks and lakes occur in the upper portions of the watershed, and these ultimately drain into Malibu Creek at the downstream end of the watershed. Malibu Creek drains into Malibu Lagoon, a 13-acre tidal lagoon.
69. The Dominguez Channel watershed is 133 square miles. This watershed includes the Los Angeles and Long Beach Harbors. The Dominguez Channel is 15 miles long. The watershed also includes Wilmington Drain, which empties into Machado Lake and other drainages, which drain directly or indirectly to the Los Angeles and Long Beach Harbors. Ninety-one percent of land in the watershed is developed.
70. There are a number of important Stormwater Management Plans and river plans that will shape the future of stormwater management in Los Angeles County. These Stormwater Management Plans, as implemented, may affect the volumes of stormwater that reach rivers and streams.
71. Two potentially significant drivers in terms of shaping the future of stormwater management are the 2006 Greater Los Angeles County Region, Integrated Regional Water Management Plan (GLAC IRWMP), which was updated in 2014, and the Watershed Management Programs (WMPs) and Enhanced Watershed Management Programs (EWMPs) developed under the Los Angeles County and City of Long Beach Municipal Separate Storm Sewer System (MS4) permits. The GLAC IRWMP is significant because it is very comprehensive and includes broad targets although it does not commit to specific projects. The EWMPs and WMPs are significant because they include specific projects with timelines or plans to develop specific projects with timelines. Considered as a group, the EWMPs and WMPs are comprehensive. The EWMPs and WMPs have generally been coordinated with the IRWMP.

72. The “*Los Angeles Basin Study - The Future of Stormwater Conservation*,” Bureau of Reclamation, November 2016 (Basin Study) may become a significant driver of change to stormwater management depending on its implementation.
73. The Lower LA River Revitalization Plan, per California State Assembly Bill 530 (2015), has identified specific project opportunities, a Community Stabilization Toolkit for river-adjacent communities, and a Watershed Education Program focused on the lower Los Angeles River.
74. LACFCD and Los Angeles County Public Works have initiated an effort to update the 1996 Los Angeles River Master Plan. The Los Angeles River Master Plan efforts will be led by the Los Angeles County Public Works and will include architect/design firms OLIN and Gehry Partners, and the nonprofit River LA. River LA will lead the community engagement and outreach.
75. The Stormwater Management Plans and the river plans are the drivers of change in Los Angeles County. The WDRs in this Order will respond to and reflect changes due to the implemented Stormwater Management Plans, as necessary.

V. Description of Direct Impacts to Waters of the State

Total Project fill/excavation quantities for all impacts are summarized in Table 1, below. These are not new or additional impacts but an accounting of areas which have been, and continue to be, impacted by yearly clearing. Permanent impacts are categorized as those resulting in a physical loss in area and also those degrading ecological condition only.

Table 1: Total Project Fill/Excavation Quantity									
Aquatic Resource Type	Temporary Impact²			Permanent Impact					
				Physical Loss of Area			Degradation of Ecological Condition Only		
	Acres	CY ³	miles	Acres	CY	LF	Acres	CY	LF
Stream Channel							734		

VI. Avoidance and Minimization

LACFCD conducted Feasibility Studies for the reaches in the Los Angeles River, San Gabriel River, Malibu Creek, Dominguez Channel, Antelope Valley, and Santa Clara River between 2013 and 2018 including every reach covered in this Order. The Feasibility Studies addressed capacity requirements for flood control; design criteria and anticipated limitations; and included an analysis of potential areas where vegetation could remain; areas with the potential for restoration of native vegetation; and/or where justification existed to clear additional vegetated area.

The Feasibility Studies also include an assessment of the biological functions and values for each reach and an assessment of water quality and consideration of whether the vegetation in the channel is native or an exotic and/or invasive species.

² Includes only temporary direct impacts to waters of the state and does not include upland areas of temporary disturbance which could result in a discharge to waters of the state.

³ Cubic Yards (CY); Linear Feet (LF)

Based on these analyses, LACFCD was able to minimize impacts while achieving the required flood control. A summary of all revisions for every reach is in Attachment B to this Order, Summary of Revisions to Maintenance Manual.

VII. Antidegradation Policies and California Environmental Quality Act (CEQA)

- a. **CEQA.** The Los Angeles Water Board finds that the Project is exempt from CEQA pursuant to California Code of Regulations, title 14, section 15061(b)(2). Specifically, the issuance of this Order and the activities described herein meet the exemption criteria under California Code of Regulations, title 14, section 15301 (Existing Facilities). Additionally, the Los Angeles Water Board concludes that no exceptions to the CEQA exemption apply to the activities approved by this Order.
- b. **Antidegradation Policies.** Federal regulation 40 C.F.R. section 131.12 requires that state water quality standards include an antidegradation policy consistent with the federal antidegradation policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16 ("Statement of Policy with Respect to Maintaining the Quality of the Waters of the State"). Resolution No. 68-16 is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the state and federal antidegradation policies. The activities and discharges permitted by this Order are consistent with the antidegradation provisions of 40 C.F.R. section 131.12 and State Water Board Resolution No. 68-16. This Order includes discharge prohibitions, best management practices, monitoring requirements, and other conditions on the permitted activities and discharges to ensure that water quality standards are achieved and that beneficial uses are protected. Compliance with the requirements of this Order will ensure that the permitted activities and discharges will not cause degradation.

VIII. Petition for Reconsideration and/or Review to the State Water Board

Any person aggrieved by the 401 Certification in this Order may petition the State Water Board to reconsider the 401 Certification in accordance with California Code of Regulations, title 23, section 3867. Any person aggrieved by the WDRs in this Order may petition the State Water Board to review the WDRs in accordance with California Water Code section 13320 and California Code of Regulations, Title 23, sections 2050 and following. A petition for reconsideration and/or review must be submitted in writing. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found at http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

IX. Fees Received

An application fee of \$1,500 was received on April 13, 2018. An additional fee of \$128,500 based on total Project impacts identified in Table 1 was received on June 8, 2018. The fee amount was determined as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3), and was calculated as category A - Fill & Excavation Discharges (fee code 84) with the dredge and fill fee calculator.

IT IS HEREBY ORDERED that the Los Angeles County Flood Control District, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following requirements, pursuant to authority under California Water Code sections 13263 and 13267.

X. Permitted Activities

a. Vegetation and Sediment Clearing

1. Conduct maintenance of 96 earthen-bottom channel reaches in accordance with the 2018 Maintenance Plan. The Master Maintenance Plan is consistent with the Preliminary Jurisdictional Delineation Report prepared by LACFCD dated September 4, 2014. The Master Maintenance Plan includes the hydrologic code, beneficial uses, length, acreage, maps and maintenance methods for each reach.⁴
2. Conduct annual sediment and vegetation removal as authorized per the Master Maintenance Plan and per the schedule the LACFCD issues (Section XII, b. Reporting and Notification Requirements). Channel clearing shall not exceed the boundaries included for each reach in the Master Maintenance Plan as approved by the Los Angeles Water Board by this Order. Other changes to the Master Maintenance Plan shall be approved by the Executive Officer of the Los Angeles Water Board and other appropriate agencies including the ACOE and CDFW.
3. Conduct routine maintenance, inspection and calibration, including clearance of accumulated sediment and/or vegetation within three feet of the water quality monitoring equipment during dry weather as needed to ensure proper operation. Conduct periodic sediment and vegetation removal as authorized on an as-needed basis to provide continuous flow for water quality monitoring equipment.
4. Conduct periodic sediment and vegetation removal as authorized, on an as-needed basis, to ensure proper drainage to address vector issues.
5. In areas where there are sensitive species and native vegetation, clearing shall take place by hand as specified in the Master Maintenance Plan in order to selectively avoid protected resources. In other areas, clearing may be conducted with heavy equipment, including trucks, bulldozers, dump trucks, and front-end loaders, along with other specialized equipment. Equipment shall access the channels by existing access roads or by designated access paths.

b. Maintenance of Existing Invert Access Ramps

1. Conduct authorized maintenance activities for invert access ramps, which are critical structures for access to earthen-bottom channel reaches whether constructed with dirt, lined with concrete, or armored with riprap on the sides. Authorized maintenance activities include inspection, minor maintenance repairs, and storm damage repair and rehabilitation. Storm damage repair and rehabilitation includes restoring ramps that are damaged or washed out during a storm, back to pre-storm conditions.

⁴ While included in the Master Maintenance Plan, channel reaches identified as County Reach numbers 112–121 are not regulated by this Order. Any required maintenance in these channels will be permitted or certified by the Los Angeles Water Board separately.

c. Outlets, minor repairs and equipment maintenance

1. Notching and limited vegetation removal from drain channel outlets is authorized on reaches where mechanical removal of sediment and vegetation is allowed and it is consistent with the original channel designs. In stream reaches where mowing or hand removal of vegetation is required, work on installing notches at 45 degrees and clearing drain channel outlets is authorized to be conducted by hand and/or hand tools, and shall be consistent with all terms of the Master Maintenance Plan.
2. Conduct non-emergency minor repairs, which may include the following: regrading inverts to repair minor erosion and to remove ponded water; repair of minor storm damage; and in-kind structural repairs. These repairs may include, but are not limited to, minor in-kind riprap replacement, flap gate repair and/or replacement, invert and slope repairs, and erosion control structures.
3. Conduct urgent work that is small in scope and conducted during and immediately after storm events.
4. Conduct maintenance of monitoring equipment. In order to obtain accurate flow readings from all monitoring equipment mounted on bridges and/or other structures and prevent equipment damage, vegetation within monitored channels may be cleared to bank-full capacity upstream and downstream of the gauges, conduits, pumps, sensors, and probes or bridge. In addition, maintenance may include performing repair and in-kind replacement of existing monitoring equipment if inspections determine that such activities are required. Stream gauge maintenance shall occur between September 1 and March 15. Routine maintenance, inspection and calibration, including clearance of accumulated sediment and/or vegetation within three feet of the water quality monitoring equipment may be conducted, if needed, during dry weather to ensure proper operation.

XI. Prohibitions

- a. Fueling, lubrication, maintenance, operation, and storage of vehicles and equipment shall not result in a discharge or a threatened discharge to waters of the State. At no time shall LACFCD use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment shall be located outside of waters of the State.
- b. No construction material, spoils, debris, or any other substances associated with this project that may adversely impact water quality standards shall be located in a manner which may result in a discharge or a threatened discharge to waters of the State. Designated spoil and waste areas shall be visually marked prior to any excavation and/or construction activity and storage of the materials shall be confined to these areas.
- c. The discharge shall not: a) degrade surface water communities and populations including vertebrate, invertebrate, and plant species beyond the permitted vegetation removal; b) promote the breeding of mosquitoes, gnats, black flies, midges, or other pests; c) alter the color, create visual contrast with the natural appearance, or cause aesthetically undesirable discoloration of the receiving waters; d) cause formation of sludge deposits; or e) adversely affect any designated beneficial uses.

- d. This Order does not authorize application of pesticides. Any such application that may be necessary as part of the maintenance activities authorized by this Order must be separately permitted through the appropriate statewide general pesticide application permit.

XII. Conditions

The Los Angeles Water Board has independently reviewed the record of the Project to analyze impacts to water quality and designated beneficial uses within the watersheds of the Project. In accordance with this Order, LACFCD may proceed with the Project under the following conditions and requirements:

a. Authorization

Impacts to waters of the State shall not exceed quantities shown in Section V. Table 1. Impacts to individual reaches shall not exceed the limits specified in Attachment A to this Order, MasterMaintenance Plan.

b. Reporting and Notification Requirements

1. All Reports and Notifications

- i. Requirements for the content of these reporting and notification types are detailed in Attachment C, Reporting Requirements, including specifications for photo and map documentation during the Project. Written reports and notifications must be submitted using the Reporting and Notification Cover Sheet located in Attachment C, which must be signed by LACFCD or an authorized representative as indicated in subpart iii., below.
- ii. Each and any report submitted in accordance with this Order shall contain the following completed declaration;

“I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on the _____ day of _____ at _____.

(Signature)

(Title)”

- iii. All applications, reports, or information submitted to the Los Angeles Water Board shall be signed by either a principal executive officer, ranking elected official, or other duly authorized employee. A duly authorized representative may sign documents if:
 - A. The authorization is made in writing by an authorized person;
 - B. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity; and

- C. The written authorization is submitted to the Los Angeles Water Board Staff Contact prior to submitting any documents.
- iv. All communications regarding this project and submitted to the Los Angeles Water Board shall identify the Project File Number 99-011 2018 WDR. Submittals shall be sent to the Executive Officer where identified and to the 401 Certification Unit, Attention: Valerie Carrillo Zara.

2. Project Reporting

- i. **Annual Workplan and Thresholds for Additional Review.** Pursuant to California Water Code section 13267, LACFCD shall submit an Annual Workplan with a schedule of the upcoming reaches proposed for maintenance clearing. The Annual Workplan shall include, at a minimum, the following information: (a) proposed schedule; (b) acreage of areas to be impacted (vegetated and non-vegetated); (c) a description of any existing aquatic resources; (d) site-specific best management practices (BMPs) to be implemented; and (e) proposed application of pesticides. If LACFCD, or other County agency in support of LACFCD, plans to use any pesticide in these reaches, LACFCD shall also specify the pesticide permit (i.e. Vector Control or Weed Control) and submit the WDID number and the Pesticide Action Plan or Aquatic Pesticides Application Plan with the Annual Workplan. LACFCD shall send the Annual Workplan not later than August 1 of each year to the Los Angeles Water Board Executive Officer and 401 Certification Unit staff, and send notices of additional routine maintenance work as the needs are discovered in the field. The Executive Officer may require additional time to review or add additional requirements or require separate permitting for certain activities proposed upon review of the Annual Workplan or notice of additional routine maintenance work; however, if the Executive Officer does not provide any comments, additional requirements or a request for additional time within 30 days for the Annual Workplan, or 15 days for the notice of additional routine maintenance work, LACFCD is authorized to proceed pursuant to the Annual Workplan or notice of additional routine maintenance work as proposed.
 - A. Routine maintenance may require additional review if the work exceeds certain thresholds of impact as defined below. For projects that exceed the following thresholds, LACFCD shall provide information similar to a pre-construction notification for a 401 Water Quality Certification for 60-day review.
 - B. **Project Exceeds Original Footprint**
For any work resulting in temporary or permanent impacts within the ordinary high water mark outside the currently permitted project boundaries, LACFCD shall submit a new proposed scope of work to the Los Angeles Water Board Executive Officer with all pertinent information for consideration to support either confirmation that the project area(s) is within the scope of this Order or a determination that LACFCD must apply for supplemental WDRs or a separate CWA Section 401 Water Quality Certification for the work.
 - C. **Project Deviates from the Pre-Approved Surface Water Diversion Plan**
If a water diversion is planned to occur in a manner which deviates from the Pre-Approved Water Diversion Plan, LACFCD shall submit the new plan to the Los Angeles Water Board Executive Officer for review and approval. The Executive Officer is authorized to approve changes to the Surface Water Diversion Plan provided that it is consistent with this Order.

- ii. Schedules.** Prior to any maintenance activities within the subject reaches, LACFCD shall publish approximate schedules (including baseline biological surveys and maintenance activity descriptions). This information shall be made publicly available on the LACFCD website and via email notification or other direct notification to watershed councils and other interested persons prior to any routine maintenance activities. For each reach, the information shall include: (a) the proposed schedule; (b) a description of the reach's existing condition; (c) the area of proposed impact; and (d) a description of any existing aquatic resources (e.g., wetland/riparian vegetation based on readily available information and pre-clearing biological surveys).
- iii. Annual Reports.** To demonstrate compliance with this Order, pursuant to CWC section 13267, LACFCD shall submit to the Los Angeles Water Board Executive Officer an Annual Project and Mitigation Monitoring Report (Annual Report) by May 1st of each year for each year this Order is in effect. Any revisions to the previous Annual Reporting outline and/or technical or field checklists shall be submitted to the Executive Officer for approval within 60 days of the issuance of this Order.

After submission to the Los Angeles Water Board Executive Officer, LACFCD will post the Annual Report to the LACFCD website.

The Annual Report shall describe in detail all of the project/maintenance activities performed during the previous year and all restoration and mitigation efforts. At a minimum, the Annual Reports shall include the following documentation, as set forth in the Annual Report Outline dated April 5, 2010:

- A. Annual Report Summary
- B. List of attached documentation
- C. Description of all project/maintenance activities performed during the previous year
- D. Discussion of all restoration efforts and continued maintenance of the Big Tujunga mitigation site
- E. Status of other agreements (e.g., ACOE permits or CDFW SAAs)
- F. Status of review of hydraulic analyses or new hydraulic analyses for reaches 28, 67, 69, 70, 75, 90, 100, and 110
- G. Summary of compliance with all requirements of this Order
- H. A certified statement (Declaration) from LACFCD that all information reported in the annual report is complete and accurate
- I. Documentation/Attachments
 - Color photo documentation (pre-, during, and post-project site conditions)
 - Narrative and photo documentation of any BMP installations during and post-project maintenance activities
 - Evaluation of the effectiveness of BMPs utilized based on field observations and water quality monitoring data required
 - Photo documentation of any vegetation left within maintenance areas immediately following maintenance clearing (including acreage)
 - Documentation of estimates of volumes of vegetation removed from the project areas including an analysis of inter-annual trends in vegetation loads
 - Documentation of estimates of volumes of trash removed from the project areas including an analysis of inter-annual trends in trash loads

- Documentation of estimates of volumes of sediment removed from the project areas including an analysis of inter-annual trends in sediment loads
- Biological information including baseline biological surveys and post-project surveys
- The overall status of the project including a detailed schedule of work
- Copies of all revised permits related to this project
- All water quality monitoring results by reach in a tabular format containing results of each parameter for each channel reach
- A certified statement of "No Net Loss" of Wetlands Associated with this project
- Discussion of all monitoring activities and exotic plant control efforts
- Description of all outreach activities in the previous year

iv. Conditional Notifications and Reports for Accidental Discharges of Hazardous Materials⁵: The following notifications and reports are required for Accidental Discharges of Hazardous Materials:

Following an accidental discharge of a reportable quantity of a hazardous material, sewage, or an unknown material, the following applies (Wat. Code, § 13271):

- A.** As soon as (a) LACFCD has knowledge of the discharge or noncompliance, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures then LACFCD shall:
- 1) first call – 911 (to notify local response agency)
 - 2) then call – Office of Emergency Services (OES) State Warning Center at: (800) 852-7550 or (916) 845-8911
 - 3) Lastly follow the required OES procedures as set forth in:
http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill_Booklet_Feb2014_FINAL_BW_Acc.pdf
- B.** Following notification to OES, LACFCD shall notify the Los Angeles Water Board, as soon as practicable (within 24 hours if feasible). Notification may be via telephone, e-mail, delivered written notice, or other verifiable means.
- C.** Within five (5) working days of notification to the Los Angeles Water Board, LACFCD must submit an Accidental Discharge of Hazardous Material Report to the Los Angeles Water Board.
- v. Violation of Compliance with Water Quality Standards:** LACFCD shall notify the Los Angeles Water Board within 24 hours of any event causing noncompliance with water quality standards. Notification may be via telephone, e-mail, delivered written notice, or other verifiable means.

⁵ "Hazardous material" means any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. (Health & Saf. Code, § 25501.)

- A. Examples of noncompliance events include: lack of storm water treatment following a rain event, discharges causing a visible plume in a water of the State, and water contact with uncured concrete.
 - B. This notification must be followed within three (3) working days by submission of a written report to the Los Angeles Water Board describing the noncompliance and actions taken to correct the condition.
- vi. **Modifications to Project.** Project modifications may require an amendment to this Order. LACFCD shall give advance notice to Los Angeles Water Board staff if Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority by submitting a Modifications to Project Report. LACFCD shall inform Los Angeles Water Board staff of any Project modifications that will interfere with LACFCD's compliance with this Order.

c. Pilot Projects

1. Continuing LACFCD's efforts begun in 2015, LACFCD may identify pilot projects to investigate alternative vegetation management methods that may be more protective of beneficial uses, especially wildlife and habitat uses. Examples of pilot projects may include but are not limited to: mowing as opposed to scraping for vegetation clearing; clearing just one bank of a particular reach each year; replacing an invasive plant species such as *Arundo donax* with slower-growing native species; exploring different combinations of plant species in a given reach; or study and review of land use in the vicinity of a reach to determine if a level of infrequent flooding could be tolerated.
2. LACFCD shall explore pilot projects to investigate alternative vegetation management methods after consultation with the Los Angeles Water Board Executive Officer, ACOE, and stakeholders.
3. LACFCD shall include any pilot projects in the Annual Workplan.
4. For any pilot project conducted, LACFCD shall evaluate the project in terms of: a) ecological impact, impact to beneficial uses, and impact to local communities; b) positive or negative effects on downstream water quality; c) identification of conditions or requirements in permits or other requirements that would need to be modified for the pilot project to be required as routine maintenance; and d) impacts to LACFCD operations in terms of costs, schedule, resources, etc. LACFCD shall provide a technical report evaluating the pilot project within six months of completion of the pilot project with interim recommendations or, when possible, final recommendations.
5. With Los Angeles Water Board Executive Officer approval, and subject to approval by other agencies including ACOE and CDFW, as necessary, LACFCD shall implement new channel maintenance practices based on the outcomes of the pilot projects during term of this Order, as feasible.

d. Continued Avoidance and Minimization

1. LACFCD shall continue to assess and review, as appropriate, the hydraulic capacity and existing conditions of all reaches covered by this Order to identify any channels which may

potentially provide restoration opportunities for riparian habitat/vegetation growth and support modifications to channel clearing activities to achieve greater levels of avoidance and minimization.

2. For the reaches identified by the Feasibility Studies as not meeting required flood capacity requirements where additional vegetation may be removed (reaches 28, 67, 69, 70, 75, 90, 100, and 110), LACFCD shall review hydraulic analyses or conduct new hydraulic analyses to identify possible methods to minimize additional potential impacts in those reaches and report results to the Los Angeles Water Board. The Master Maintenance Manual may be updated in the future with reductions to allowed impact.
3. If LACFCD identifies a revised channel clearing or restoration opportunity based on changes to the contributing drainage area or other significant change since completion of the applicable feasibility study, LACFCD shall submit any identified channel clearing or restoration opportunity recommendations to the Los Angeles Water Board Executive Officer. Recommendations shall also include suggested schedules of vegetation removal frequency in order to ensure the maximum habitat preservation is achieved, consistent with necessary flood control. For recommendations approved by the Executive Officer and by other appropriate regulatory agencies including the ACOE and CDFW, LACFCD shall make the necessary changes to the Master Maintenance Plan, including proposals for additional BMPs as may be appropriate.
4. LACFCD shall conduct Risk and Uncertainty analyses or other appropriate analyses, working with the ACOE, as warranted, in order to identify those reaches with federally required maintenance requirements that may be candidates for revised maintenance procedures that would allow more vegetation to remain in the channel, or that would allow alternative channel clearing approaches/methods potentially more protective of beneficial uses. LACFCD may apply under section 14 of the Rivers and Harbors Act of 1899, codified at 33 U.S.C. section 408 (commonly referred to as "Section 408"), or may pursue alternative approaches as determined by the ACOE for modification of federally required maintenance requirements with the ACOE, if appropriate.

e. Continued Outreach to stakeholders

LACFCD shall continue the meaningful dialogue with interested stakeholders started under the WDR Working Group through long-term planning efforts, such as Lower Los Angeles River Revitalization Plan and Los Angeles River Master Plan Update. LACFCD will host stakeholder meetings on an as-needed basis when there are topics/issues related to the earth-bottom channels' maintenance.

f. Water Quality Monitoring

1. Water quality shall be monitored in compliance with the *Water Quality Monitoring Guide for Maintenance and Repair Projects Involving Water Diversion*, April 2016 (Water Quality Guide) in Attachment D.

The Water Quality Guide requires upstream and downstream monitoring when surface flows are present for the following constituents:

- pH
- temperature
- dissolved oxygen

- turbidity
- total suspended solids (TSS)

Analyses must be performed using approved U.S. Environmental Protection Agency methods, where applicable. These constituents shall be measured at least once prior to diversion and then monitored on a daily basis during the first week of diversion and/or dewatering activities, and then on a weekly basis, thereafter, until the in-stream work is complete.

LACFCD shall submit results of the analyses as part of the Annual Report to the Los Angeles Water Board in a tabular format containing results of each parameter for each channel reach. Diversion activities shall not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any such violations may result in corrective and/or enforcement actions, including increased monitoring and sample collection.

2. LACFCD shall visually inspect the reaches after maintenance during the rainy season to ensure excessive erosion, stream instability, or other water quality pollution is not occurring in or downstream of the Project site. If water quality pollution is occurring, LACFCD shall contact the Los Angeles Water Board staff within three (3) working days. The Los Angeles Water Board may require the submission of a Violation of Compliance with Water Quality Standards Report. Additional permits may be required to carry out any necessary site remediation.

g. Standard

1. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330, and California Code of Regulations, title 23, sections 2050-2068 and sections 3867-3869, inclusive. Additionally, the Los Angeles Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to LACFCD, if the Los Angeles Water Board determines that: the Project fails to comply with any of the requirements or conditions of this Order; or, when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) or federal Clean Water Act section 303 (33 U.S.C. § 1313). For purposes of Clean Water Act section 401(d), the condition constitutes a limitation necessary to assure compliance with water quality standards and appropriate requirements of state law.
2. This Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license, unless the pertinent certification application was filed pursuant to subsection 3855(b) of chapter 28, title 23 of the California Code of Regulations, and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. This Order is conditioned upon total payment of any fee required under title 23 of the California Code of Regulations and owed by LACFCD.
4. In the event of any violation or threatened violation of the requirements or conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties,

process, or sanctions as provided for under state and federal law. For purposes of Clean Water Act, section 401(d), the applicability of any state law authorizing remedies, penalties, processes, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Order.

h. General Compliance and Enforcement

1. Failure to comply with any requirement or condition of this Order shall constitute a violation of the Porter-Cologne Water Quality Control Act and the Clean Water Act. LACFCD may then be subject to administrative and/or civil liability pursuant to Water Code sections 13268, 13350, or 13385.
2. Permitted actions must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses, for receiving waters as adopted by the Los Angeles Water Board or State Water Board (collectively Water Boards) in any applicable water quality control plan or policy. The source of any such discharge must be eliminated as soon as practicable.
3. In response to a suspected violation of any requirement or condition of this Order, the Los Angeles Water Board may require the holder of this Order to furnish, under penalty of perjury, any technical or monitoring reports the Water Boards deem appropriate, provide that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The additional monitoring requirements ensure that permitted discharges and activities comport with any applicable effluent limitations, water quality standards, and/or other appropriate requirement of state law.
4. LACFCD or their agents shall report any noncompliance with this Order. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time LACFCD becomes aware of the circumstances. A written submission shall also be provided within three days of the time LACFCD becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
5. In response to any violation of the requirements or conditions of this Order, the State Water Board or Los Angeles Water Board may add to or modify the requirements or conditions of this Order as appropriate to ensure compliance.
6. After notice and opportunity for a hearing, this Order may be modified, revoked and reissued, or terminated or modified for cause, including, but not limited to:
 - i. Failure to comply with any term or condition contained in this Order;
 - ii. Obtaining this Order by misrepresentation, or failure to disclose fully all relevant facts;
 - iii. A change in any condition or acquisition of newly-obtained information that would have justified the application of different terms or conditions if known at the time of Order adoption;

- iv. Endangerment to human health or the environment resulting from the permitted activity.
- 7. LACFCD must, at all times, fully comply with engineering plans, specifications, and technical reports submitted to support this Order and all subsequent submittals required as part of this Order. However, the requirements and conditions within this Order and Attachments supersede any conflicting provisions within LACFCD submittals.
- 8. This Order and all of its conditions and requirements contained herein continue to have full force and effect regardless of the expiration or revocation of any federal license or permit issued for the Project. For purposes of Clean Water Act, section 401(d), this condition constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements of state law.

i. Administrative

- 1. This Order does not authorize any act which results in the taking of a threatened, endangered or candidate species or any act, which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish & Game Code, §§ 2050-2097) or the federal Endangered Species Act (16 U.S.C. §§ 1531-1544). If a "take" will result from any act authorized under this Order held by LACFCD, LACFCD must obtain authorization for the take prior to any construction or operation of the portion of the Project that may result in a take. LACFCD is responsible for meeting all requirements of the applicable endangered species act for the Project authorized under this Order.
- 2. LACFCD shall grant Los Angeles Water Board and State Water Board staff, or an authorized representative (including an authorized contractor acting as a Water Board representative), upon presentation of credentials and other documents as may be required by law, permission to:
 - i. Enter the Project or compensatory mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records are kept.
 - ii. Have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order.
 - iii. Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order.
 - iv. Sample or monitor for the purposes of assuring Order compliance.
- 3. A copy of this Order shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall be available at the Project sites during clearing activities. LACFCD shall be responsible for work conducted by its consultants, contractors, and any subcontractors.
- 4. A copy of this Order must be available at the Project site(s) during maintenance activities for review by site personnel and agencies. All personnel performing work on the Project shall be familiar with the content of this Order and its location at the Project site.
- 5. LACFCD shall submit copies of any other final permits and agreements required for this project, including, but not limited to, the ACOE CWA Section 404 permit and the CDFW's Streambed Alteration Agreement to the Los Angeles Water Board 401 Certification Unit. These documents shall be submitted prior to any discharge to waters of the State.

j. Mitigation for Temporary Impacts

1. LACFCD shall restore all areas of temporary impacts to waters of the State and all other areas of temporary disturbance outside of areas of maintenance, which could result in a discharge or a threatened discharge to waters of the State. Restoration shall include returning areas to pre-project contours and planting with native vegetation, if feasible.

k. Compensatory Mitigation for Permanent Impacts⁶

1. To mitigate the 48.2 acres impacted by removal of vegetation, LACFCD established the Big Tujunga Wash Mitigation Area in accordance with the *Master Mitigation Plan for the Big Tujunga Wash Mitigation Bank* (Final Plan dated April 2000), which contains 62.7 acres (achieving a 1.3:1 mitigation ratio) (Table 2).

Table 2: Required Project Compensatory Mitigation Quantity		
Aquatic Resource Type	Comp Mit. Type ⁷	Rehabilitation ⁸
Stream Channel	Permittee Responsible	62.7 acres

2. LACFCD shall continue to maintain the 62.7-acre Big Tujunga Wash Mitigation Area to ensure its long-term sustainability and that of the resident aquatic resources.

l. Best Management Practices

1. All appropriate Best Management Practices (BMPs) shall be implemented in order to avoid any impacts to water quality. LACFCD shall follow the “BMP Manual for Soft Bottom Clearing” developed by LACFCD in 2003 and all other necessary BMPs. The maintenance clearing activities shall not result in indirect impacts to water quality or beneficial uses of downstream waterbodies. The maintenance clearing activities shall not result in changes in the quantity or quality of water in downstream waterbodies as a result of maintenance activity, or during operation subsequent to the maintenance activities. The maintenance clearing activities shall not result in changes in water quality in the channel that would cause or contribute to water quality exceedances during periods between maintenance activities, or upon their annual completion.
2. LACFCD shall comply with the specifications of its Master Maintenance Plan, or any subsequently approved plans that follow.
3. LACFCD shall implement the Plan for Hazard Analysis and Critical Control Points dated April 1, 2010 (HACCP) in all reaches in the Malibu and Santa Monica watersheds or any subsequently Executive Officer-approved HACCP to limit the spread of invasive species.
4. LACFCD shall comply with all water quality objectives, prohibitions, and policies set forth in the Basin Plan, as amended.

⁶ Compensatory Mitigation is for permanent physical loss and permanent ecological degradation of a water of the state.

⁷ Compensatory mitigation type may be: In-Lieu-Fee (ILF); Mitigation Bank (MB); Permittee-Responsible (PR)

⁸ Methods: establishment, reestablishment, rehabilitation, enhancement, preservation.

5. LACFCD shall implement all Best Management Practices as outlined in the Master Maintenance Plan.
6. Prior to start of any annual maintenance clearing, qualified biologists shall perform pre-clearing biological resource surveys and photo documentation. Sensitive/endangered species focused surveys shall be conducted per the Master Maintenance Plan. No work shall commence without confirmation of findings or no findings of sensitive/endangered species from the biologists. These surveys are also meant to minimize impact on any resources that may potentially use or benefit from the channel.
7. During construction, biologists shall be available for consultation for any issues that may arise.
8. If maintenance activities on monitoring equipment are necessary during the nesting season, appropriate nesting bird surveys will be conducted prior to starting work.
9. All excavation, construction, or maintenance activities shall follow best management practices to minimize impacts to water quality and beneficial uses. Dust control activities shall be conducted in such a manner that will not produce downstream runoff.
10. All waste and/or dredged material removed shall be relocated to a legal point of disposal if applicable. A legal point of disposal is defined as one for which WDRs have been established by a California Regional Water Quality Control Board, and is in full compliance therewith. Please contact the Land Disposal Unit, at (213) 620-6600 for further information.
11. LACFCD shall implement all necessary control measures to prevent the degradation of water quality from the proposed project in order to maintain compliance with the Basin Plan. The discharge shall meet all effluent limitations and toxic and effluent standards established to comply with the applicable water quality standards and other appropriate requirements, including the provisions of sections 301, 302, 303, 306, and 307 of the CWA. This Order does not authorize the discharge by LACFCD for any other activity than specifically described in the current CWA Section 404 permit for this project.
12. Application of pesticides must be supervised by a certified applicator and be in conformance with manufacturer's specifications for use. Compounds used must be appropriate to the target species and habitat. Pesticide utilization shall be in accordance with State Water Board pesticide permits including: Water Quality Order Nos. 2011-0003-DWQ, for Aquatic Animal Invasive Species Control; 2011-0004-DWQ, for Spray Applications; 2011-0002-DWQ, for Vector Control; and 2013-0002-DWQ, for Weed Control. If LACFCD, or other County agency in support of LACFCD, plans to use any pesticides in these reaches, LACFCD shall also specify the General NPDES permit (i.e. Vector Control or Weed Control) and submit the WDID number and the Pesticide Action Plan or Aquatic Pesticides Application Plan with the Annual Workplan. If LACFCD or other County agency in support of LACFCD, enrolls in one of the abovementioned permits during the year for use in a reach included in this Order due to an emerging issue such as an emerging vector control issue, LACFCD shall submit the WDID number and the Pesticide Action Plan or Aquatic Pesticides Application Plan as soon as available.
13. LACFCD shall not conduct any routine maintenance activities within waters of the State during a rainfall event. LACFCD shall maintain a one-day (1-day) clear weather forecast before conducting any operations within waters of the State. If rain is predicted within 12

hours after operations have begun, activities shall cease temporarily, protective measures to prevent siltation/erosion shall be implemented and maintained and all material and equipment will be removed from the earth-bottom reach.

14. LACFCD shall utilize the services of a qualified biologist with expertise in riparian assessments during all construction activities where maintenance involves partially clearing areas (i.e., some vegetation is to remain in the same reach or in an adjacent reach). The biologist shall be available if necessary during maintenance activities to ensure that all protected areas are marked properly and ensure that no vegetation outside the specified areas is removed. The biologist shall have the authority to stop the work, as necessary, if instructions are not followed. The biologist shall be available upon request from the Los Angeles Water Board for consultation within 24 hours of request of consultation.
15. No activities shall involve wet excavations (i.e., no excavations shall occur below the seasonal high water table). A minimum 5-foot buffer zone shall be maintained above the existing groundwater level. If construction or groundwater dewatering is proposed or anticipated, LACFCD shall file a Report of Waste Discharge with the Los Angeles Water Board and obtain any necessary NPDES permits/WDRs prior to discharging waste. Sufficient time should be allowed to obtain any such permits (generally 180 days). If groundwater is encountered without the benefit of appropriate permits, LACFCD shall cease all activities in the areas where groundwater is present, file a Report of Waste Discharge to the Los Angeles Water Board, and obtain any necessary permits prior to discharging waste.
16. All maintenance activities not included in this Order, and which may require a permit, must be reported to the Los Angeles Water Board for appropriate permitting. Bank stabilization and grading, as well as any other ground disturbances, are subject to restoration and revegetation requirements, and may require additional WDR action.
17. All surface waters, including ponded waters, shall be diverted away from areas undergoing grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water.
18. LACFCD shall follow the 2016 Water Diversion Manual, Attachment E to this Order, or, for circumstances which require a deviation from the Surface Water Diversion Plan, may submit to the Los Angeles Water Board an individual plan for the surface water diversion prior to the surface water diversion.
19. Diversion activities shall not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any such violations may result in corrective and/or enforcement actions, including increased monitoring and sample collection.
20. If ongoing maintenance activities on a new channel reach were covered by previous certifications with mitigation, additional mitigation will not be required. Prior to clearing of the new reaches, or where additional clearing has been authorized by the Los Angeles Water Board, LACFCD will document and provide to the Los Angeles Water Board the amount of riparian vegetation to be removed for maintenance in these reaches.
21. All mitigation areas shall be preserved and maintained as habitat in perpetuity.

22. Any modifications of the proposed project may require submittal of a new CWA Section 401 Water Quality Certification application or Report of Waste Discharge and appropriate filing fee.

XIII. Water Quality Certification

The Los Angeles Water Board hereby issues this Order for the Maintenance Clearing of Engineered Earth-Bottom Channels for Flood Control, 4WQC40199011, certifying that as long as all of the conditions and requirements listed in this Order are met, any discharge from the referenced Project will comply with the applicable provisions of Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards).

Except insofar as may be modified by any preceding conditions or requirements, all Order actions are contingent on: (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the conditions and requirements of this Order and the attachments to this Order; and (b) compliance with all applicable requirements of Statewide Water Quality Control Plans and Policies and the Los Angeles Water Boards' Water Quality Control Plan and Policies.

XIV. Effective Date and Term

- a. This Order takes effect upon its issuance by the Los Angeles Water Board.
- b. Term: This Order expires on July 20, 2023 or upon such time it is replaced coincident with a renewed ACOE CWA Section 404 permit, whichever is earlier. If an ACOE CWA Section 404 permit is renewed, LACFCD must file a Report of Waste Discharge with the Los Angeles Water Board no later than 120 days before of the expected date of the renewed ACOE CWA Section 404 permit for consideration of issuance of new or revised requirements. If no such ACOE CWA Section 404 permit is renewed and LACFCD wishes to continue maintenance activities after this Order expires, LACFCD must file a Report of Waste Discharge with the Los Angeles Water Board no later than 120 days before the expiration date of this Order for consideration of issuance of new or revised requirements. Any discharge of waste after the expiration date of this Order is a violation of Water Code section 13264. The Los Angeles Water Board is authorized to take appropriate enforcement action for any noncompliance with this provision including assessment of penalties.
- c. Los Angeles Water Board Order No. R4-2015-0032, adopted by the Board on February 12, 2015 and amended on February 11, 2016, is hereby terminated, except for enforcement purposes.

CERTIFICATION

I, Deborah J. Smith, do hereby certify that the foregoing is a full, true, and correct copy of Waste Discharge Requirements and Clean Water Act section 401 Water Quality Certification for the Maintenance Clearing of Engineered Earthen-Bottom Channels for Flood Control, 4WQC40199011, issued on July 12, 2018.

for 

Deborah J. Smith
Executive Officer
Los Angeles Water Quality Control Board



GAVIN NEWSOM
GOVERNOR



JARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION AND ORDER

Effective Date: June 6, 2022

Program Type: Fill/Excavation

Reg. Meas. ID:	401455
Place ID:	815800
WDID:	4WQC40115038
NWP:	31
USACOE#:	2013-00723-BLR
	2014-00707-BLR
R4 File No:	15-038

Project Type: Channel Construction and Maintenance

Project: Annual Maintenance of Soft Bottom Channel Reaches (SBC) Reach 112 (Ballona Creek), Reach 114 (Lower Los Angeles River), Reach 115 (Lower San Gabriel River), and Reaches 118 and 119 (Rustic and Rivas Canyons) (Project)

Applicant: Los Angeles County Flood Control District

Applicant Contact: Steven Sheridan
Assistant Deputy Director
Los Angeles County Flood Control District
900 S. Fremont Ave, Annex Building 2nd Floor
Alhambra, California 91802
Phone: (626) 458-4145; Email: Ssherida@dpw.lacounty.gov

Applicant's Agent: Nandini Moran
Los Angeles County Flood Control District
900 S. Fremont Ave, Annex Building 2nd Floor
Alhambra, California 91802
Phone: (626) 458-7810; Email: Ntmoran@dpw.lacounty.gov

Water Board Staff: Valerie Carrillo Zara, P.G.
320 W. 4th Street, Suite 200
Los Angeles, CA 90013
Phone: 213-576-6759; Email:
Valerie.CarrilloZara@waterboards.ca.gov

Water Board Contact Person:

If you have any questions, please call the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) Staff listed above or (213) 576-6600 and ask to speak with the Water Quality Certification and Wetlands Unit Program Manager.

LAWRENCE YEE, CHAIR | RENEE PURDY, EXECUTIVE OFFICER

Table of Contents

I. Order 3

II. Public Notice 3

III. Project Purpose 3

IV. Project Description 3

V. Project Location 6

VI. Project Impact and Receiving Waters Information 7

VII. Description of Direct Impacts to Waters of the State 8

VIII. Compensatory Mitigation 8

IX. California Environmental Quality Act (CEQA) 8

X. Petitions for Reconsideration 9

XI. Fees Received 9

XII. Conditions 9

XIII. Water Quality Certification 18

- Attachment A** Maps
- Attachment B** Signatory Requirements
- Attachment C** Report and Notification Requirements

I. Order

This Clean Water Act (CWA) section 401 Water Quality Certification action and Order (Order) is issued at the request of the Los Angeles County Flood Control District (hereinafter Permittee) for the Project. This Order is for the purpose described in the application and supplemental information submitted by the Permittee. The application was received on March 23, 2018. The application was deemed complete on July 25, 2020.

II. Public Notice

The Los Angeles Water Board provided public notice of the application pursuant to California Code of Regulations, title 23, section 3858 from May 8, 2018 to the effective date of the Order. The Los Angeles Water Board did not receive any comments during the comment period.

III. Project Purpose

The Project purpose is to conduct annual maintenance in five Soft Bottom Channel reaches to diminish the significant risk of flooding to the adjacent communities, and to address any deficiencies from the U.S. Army Corps of Engineers (USACE) Periodic Inspections for the Levee Safety Program.

IV. Project Description

These reaches are not included in the Permittees' larger, Earth Bottom Channel Maintenance Waste Discharge Requirements and CWA section 401 Water Quality Certification, Order No. R4-2018-0099 (File No. 99-011). In addition, this Order combines the renewal for four CWA section 401 Water Quality Certifications: Maintenance of Reach 112, originally certified in 2015, under File No. 14-125; Maintenance of Reach 114, originally certified in 2015, under File No. 15-038; Maintenance of Reach 115, originally certified in 2015, under File No. 14-132; and Maintenance of Reaches 118 and 119, originally certified in 2015, under File No. 15-038.

In addition, in the fall of 2013, the Permittee obtained a USACE CWA section 404 Regional General Permit (RGP) No. 41 to authorize removal of the invasive giant reed (*Arundo donax*) along a portion of SBC Reach 114, including the Los Angeles River from Pacific Coast Highway to Anaheim Street, in the City of Long Beach. The invasive vegetation removal activities were issued CWA section 401 Water Quality Certification, File No.13-110.

Reach 112: The Permittee will restore Soft-Bottom Channel (SBC) Reach 112 in Ballona Creek to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work (such as repair of the riprap and concrete levees and maintenance of outlet structures) throughout the channel reach as necessary. Weeds and grasses may be controlled by mowing or hand labor, and the channel will be cleared annually to the same baseline condition. Permanent impacts are comprised of 2.6 acres of non-native vegetation in the stream channel. No wetlands will be impacted.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, LACFCD must provide maintenance and minor repair activities including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

Only non-native vegetation will be removed from levee banks using manual and mechanical equipment. Native vegetation will remain in place, per the Lake and Streambed Alteration Agreement with the California Department of Fish and Wildlife for this facility.

Reach 114: The Permittee will restore SBC Reach 114 in the Los Angeles River to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work (such as repair of the flap gates, riprap, and concrete levees) throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. This reach has been regularly maintained and no new permanent impacts are proposed.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, the Permittee must provide maintenance and repair activities, including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

Only non-native vegetation will be removed from levee banks using manual and mechanical equipment. Areas mapped as Coastal Salt Marsh (disturbed or not, generally, areas with pickleweed) will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species. Native vegetation will remain in place, per the Lake and Streambed Alteration Agreement with the California Department of Fish and Wildlife for this facility.

Specifically, work in Reach 114 will include:

- Non-native woody vegetation on the riverside levee slopes will be removed down to the roots annually per the original baseline condition.
- Weeds and grasses may be controlled by mowing or hand labor.
- Vegetation, trash, and debris on the reach right-of-way and in the riprap will be cleared.
- When root removal creates a cavity in the riprap, the cavity will be filled in and the soil compacted.
- The freshwater wetlands (formerly *Arundo* areas) in the upstream portion between Pacific Coast Highway and Anaheim Street will be maintained annually through mowing and trash removal. The sediment benches will not be removed.

Reach 115: The Permittee will restore SBC Reach 115 in the San Gabriel River Estuary to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. Permanent impacts are comprised of removal of 0.6 acres of giant reed (*Arundo donax*) and 5.0 acres of non-native vegetation in the stream channel. No wetlands will be impacted.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, LACFCD must provide maintenance and minor repair activities including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

No heavy equipment will be used in areas mapped as Coastal Salt Marsh (disturbed or not; generally, areas with pickleweed). These areas will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species.

Specifically, work in Reach 115 will include:

- All invasive vegetation with roots greater than ½ inch will be removed per the USACE Levee Certification Vegetation Removal Project.
- Vegetation will be removed by mechanical and manual methods on both banks annually until all non-compliant vegetation is removed.
- Strips of riprap will be removed in strategic locations from the access road down to no more than halfway down the levee face. Steel track equipment will be driven on it. Riprap will be replaced before the end of the work day after work in that location is completed.
- Voids left by extracting the woody vegetation's root mass will be filled with native soil or non-native fill from other large excavation projects nearby. The soil will be tested before leaving its origin to ensure it is safe for usage within the levee material. The imported fill will be compacted with sheepsfoot attachment and the riprap replaced.
- Weeds and grasses may be controlled by mowing or hand labor.
- Annual clearing of all woody vegetation will occur along the entire reach on both banks below the access roads using mechanical equipment placed on the access road.
- Vegetation, debris, and brush growing on the reach right-of-way and in the riprap will be cleared.
- Non-native trees and shrubs will be trimmed in order to reduce the impact on flow in the reach as future growth occurs.
- Trash, debris, and non-native vegetation will be cleared by hand within easement boundaries.

Reaches 118 and 119: The Permittee will restore SBC Reaches 118 and 119 in Rustic Canyon and Rivas Canyon Channels to design capacities, and then will be maintained annually. Rivas Canyon Channel is tributary to Rustic Canyon Channel. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. This reach has been regularly maintained and no new permanent impacts are proposed.

The site will be accessed through a private property, located at 14470 Rustic Creek Lane, Pacific Palisades, California 90272, that is also to be used as a staging area.

Specifically, work in Reaches 118 and 119 will include:

- All vegetation within the reach will be removed using hand tools.
- Mapped wetlands will be cleared by hand only and machinery will not enter these areas.
- New non-native vegetation will be removed by hand using hand tools, such as weed eaters, hedge trimmers, chainsaws, hoes, pitch forks, loppers, machetes, and using a rubber-tracked skidsteer loader as necessary.
- Sediment benches will be mechanically mowed annually.
- Minor repair work to the wooden wall structures and eroded banks will be conducted on an as-needed basis.
- These structural repairs may include filling voids with onsite material, repairing small portions of the wood walls, replacing support structures for the walls and appurtenant structures, and other miscellaneous items encountered.

- To move a skidsteer loader from one section of the channel to the next, temporary earthen ramps will be constructed at the drop structures with available onsite soils. The earthen ramps will be removed after vegetation is removed and earthen material will be redistributed evenly throughout the site.
- Trash, debris, and non-native vegetation will be cleared by hand within easement boundaries.

V. Project Location

The Project is located in multiple locations in Los Angeles County.

Reach 112:

<u>Latitude</u>	<u>Longitude</u>
33.986970	-118.415848
33.986630	-118.415579
33.980722	-118.424186
33.980655	-118.423362
33.964644	-118.451612
33.963839	-118.451054
33.979642	-118.424490
33.978993	-118.425350

Reach 114:

<u>Latitude</u>	<u>Longitude</u>
33.790017	-118.206244
33.790205	-118.204770
33.783967	-118.204714
33.773990	-118.204669
33.767159	-118.204661
33.767083	-118.206268
33.773942	-118.206243
33.783912	-118.206222

Reach 115:

<u>Latitude</u>	<u>Longitude</u>
33.790701	-118.091318
33.778072	-118.097137
33.775056	-118.098192
33.782067	-118.096517
33.781784	-118.095645
33.775061	-118.097249
33.778168	-118.098083
33.791020	-118.092197

Reaches 118 and 119:

<u>Latitude</u>	<u>Longitude</u>
34.046107	-118.513778
34.044522	-118.513307
34.041824	-118.514181
34.037860	-118.516645

34.045400	-118.513429
34.043159	-118.513300
34.040217	-118.515775
34.035450	-118.517726

Maps showing the Project location are found in Attachment A of this Order.

VI. Project Impact and Receiving Waters Information

The Project is located within the jurisdiction of Los Angeles Water Board. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the applicable water quality control plan (Basin Plan) for the region and other plans and policies which may be accessed online at: http://www.waterboards.ca.gov/plans_policies/. The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.

It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by requiring discharges to meet contaminant levels designed to protect human health and ensure that water is safe for domestic use.

Reach 112

Receiving Water: Ballona Creek Reach 2
(Hydrologic Unit Code: 180701040200)

Designated Beneficial Uses: MUN*, REC-1, REC-2, WARM, WILD
*Conditional beneficial use

Reach 114

Receiving Water: Los Angeles River
(Hydrologic Unit Code: 180701050402)

Designated Beneficial Uses: IND, NAV, REC-1, REC-2, COMM, EST, MAR, WILD, RARE, MIGR, SPWN, SHELL, WET

Reach 115

Receiving Water: San Gabriel River Estuary
(Hydrologic Unit Code: 180701060606)

Designated Beneficial Uses: IND, NAV, REC-1, REC-2, COMM, EST, MAR, WILD, RARE, MIGR, SPWN, SHELL

Reach 118 and 119

Receiving Water: Rustic Canyon Channel
(Hydrologic Unit Code: 180701040402)

Designated Beneficial Uses: MUN*, REC-1, REC-2, WARM, WILD

*Conditional beneficial use

VII. Description of Direct Impacts to Waters of the State

Total Project fill/excavation quantities for all impacts are summarized in Table 1. Permanent impacts are categorized as those resulting in a physical loss in area and also those degrading ecological condition only.

Table 1: Total Project Fill/Excavation Quantity

Aquatic Resource Type	Temporary Impact ¹			Permanent Impact		
				Physical Loss of Area		
	Acres	CY ²	LF	Acres	CY	LF
Stream Channel Reach 112	77.83			2.6		
Stream Channel Reach 114	100.40					
Stream Channel Reach 115	109.42			5.6		
Stream Channel Reach 118 and 119	1.54					
TOTAL	289.19			8.20		

VIII. Compensatory Mitigation

The Permittee has agreed to provide the compensatory mitigation described in section XII. H. for temporary impacts that include temporal loss and/or degradation of ecological condition.

The Permittee has agreed to provide the compensatory mitigation described in section XIII. I. for permanent impacts.

IX. California Environmental Quality Act (CEQA)

The Los Angeles Water Board has determined that the Project is exempt from review under CEQA pursuant to California Water Code of Regulations, title 14, section 15061. Specifically, the issuance of this Order and the activities described herein meet the exemption criteria under California Code of Regulations title 14, section(s) 15301 Existing Facilities. Additionally, the Los Angeles Water Board concludes that no exceptions to the CEQA exemption apply to the activities approved by this Order.

¹ Includes only temporary direct impacts to waters of the state and does not include upland areas of temporary disturbance which could result in a discharge to waters of the state.

² Cubic Yards (CY); Linear Feet (LF)

X. Petitions for Reconsideration

Any person aggrieved by this action may petition the State Water Board to reconsider this Order in accordance with California Code of Regulations, title 23, section 3867. A petition for reconsideration must be submitted in writing and received within 30 calendar days of the issuance of this Order.

XI. Fees Received

The fee amount for the proposed project has been determined as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3), and was calculated as Fill and Excavation Discharges with the dredge and fill fee calculator.

Table 2: Record of Fees Received		
Date Received	Check No.	Amount
March 23, 2018	0026220756	\$720
March 23, 2018	0026220758	\$720
March 23, 2018	0026220755	\$720
March 23, 2018	0026220757	\$720
October 18, 2019	0028491393	\$139,200
	Total	\$142,100

XII. Conditions

The Los Angeles Water Board has independently reviewed the record of the Project to analyze impacts to water quality and designated beneficial uses within the watersheds of the Project. In accordance with this Order, the Permittee may proceed with the Project under the following terms and conditions:

A. Authorization

Impacts to waters of the state shall not exceed quantities shown in Table 1.

B. Reporting and Notification Requirements

Requirements for the content of these reporting and notification types are detailed in Attachment C, including specifications for photo and map documentation during the Project. Written reports and notifications must be submitted using the Reporting and Notification Cover Sheet located in Attachment C, which must be signed by the Permittee or an authorized representative.

1. Project Reporting

- a. Annual Reporting:** The Permittee shall submit an Annual Report each year on the anniversary of Project effective date. Annual Reporting requirements are detailed in Attachment C. Annual reporting shall continue until a Notice of Project Complete Letter is issued to the Permittee.

2. Project Status Notifications

- a. Request for Notice of Completion of Discharges Letter:** The Permittee shall submit a Request for Notice of Completion of Discharges Letter following completion of active Project construction activities, including any required restoration and permittee-responsible mitigation. This request shall be submitted to the Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities. Upon acceptance of the request, Los Angeles Water Board staff shall issue a Notice of Completion of Discharges Letter to the Permittee, which will end the active discharge period and associated annual fees.
- b. Request for Notice of Project Complete Letter:** The Permittee shall submit a Request for Notice of Project Complete Letter when construction and/or any post-construction monitoring is complete,³ and no further Project activities will occur. This request shall be submitted to Los Angeles Water Board staff within thirty (30) days following completion of all Project activities. Upon approval of the request, the Los Angeles Water Board staff shall issue a Notice of Project Complete Letter to the Permittee which will end the post discharge monitoring period and associated annual fees.
- 3. Conditional Notifications and Reports:** The following notifications and reports are required as appropriate.
- a. Accidental Discharges of Hazardous Materials⁴**

Following an accidental discharge of a reportable quantity of a hazardous material, sewage, or an unknown material, the following applies (Wat. Code, § 13271):

- i. As soon as (A) Permittee has knowledge of the discharge or noncompliance, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures then:
- first call – 911 (to notify local response agency)
 - then call – Office of Emergency Services (OES) State Warning Center at: (800) 852-7550 or (916) 845-8911
 - Lastly, follow the required OES procedures as set forth in:
[http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill Booklet Feb2014 FINAL BW Acc.pdf](http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill%20Booklet%20Feb2014%20FINAL%20BW%20Acc.pdf)
- ii. Following notification to OES, the Permittee shall notify the Los Angeles Water Board, as soon as practicable (ideally within 24 hours). Notification may be via telephone, e-mail, or delivered written notice.

³ Completion of post-construction monitoring shall be determined by Los Angeles Water Board staff and shall be contingent on successful attainment of restoration and mitigation performance criteria.

⁴ "Hazardous material" means any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. (Health & Saf. Code, § 25501.)

- iii. Within five (5) working days of notification to the Los Angeles Water Board, the Permittee must submit an Accidental Discharge of Hazardous Material Report.

b. Violation of Compliance with Water Quality Standards: The Permittee shall notify the Los Angeles Water Board of any event causing a violation of compliance with water quality standards. Notification may be via telephone, e-mail, or delivered written notice.

- i. Examples of noncompliance events include: lack of any reporting in a timely manner, lack of storm water treatment following a rain event, discharges causing a visible plume in a water of the state, water contact with uncured concrete, and exceedances of limits for the analytes for *In-Water Work or Diversions* listed below.
- ii. This notification must be followed within three (3) working days by submission of a Violation of Compliance with Water Quality Standards Report.

c. In-Water Work or Diversion

- i. If stream diversion will be necessary, the Permittee shall submit to the Los Angeles Water Board staff a Stream Diversion Plan, with a diagram and a narrative description of the method to divert the stream and associated BMPs for acceptance, at least 30 days in advance of any stream diversion.
- ii. During stream diversion, water quality monitoring shall be conducted. Requirements for water quality monitoring are below.
- iii. The Permittee shall notify the Los Angeles Water Board at least forty-eight (48) hours prior to initiating work in water or stream diversions. Notification may be via telephone, e-mail, or delivered written notice.
- iv. Within three (3) working days following completion of work in water or stream diversions, an In-Water Work/Diversions Water Quality Monitoring Report must be submitted to Los Angeles Water Board staff.

d. Modifications to Project

Project modifications may require an amendment of this Order. The Permittee shall give advance notice to Los Angeles Water Board staff if Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority by submitting a Modifications to Project Report. The Permittee shall inform Los Angeles Water Board staff of any Project modifications that will interfere with the Permittee's compliance with this Order.

e. Transfer of Property Ownership: This Order is not transferable in its entirety or in part to any person or organization except after notice to the Los Angeles Water Board in accordance with the following terms:

- i. The Permittee must notify the Los Angeles Water Board of any change in ownership or interest in ownership of the Project area by submitting a Transfer of Property Ownership Report. The Permittee and purchaser must sign and date the notification and provide such notification to the Los Angeles Water Board at least 10 days prior to the transfer of ownership.

- ii. Until such time as this Order has been modified to name the purchaser as the permittee, the Permittee shall continue to be responsible for all requirements set forth in this Order.

C. Water Quality Monitoring

1. **General:** If surface water is present, continuous visual surface water monitoring shall be conducted to detect accidental discharge of construction related pollutants (e.g. oil and grease, turbidity plume, or uncured concrete).
2. **Accidental Discharges/Noncompliance:** Upon occurrence of an accidental discharge of hazardous materials or a violation of compliance with a water quality standard, Los Angeles Water Board staff may require water quality monitoring based on the discharge constituents and/or related water quality objectives and beneficial uses.
3. **In-Water Work or Diversions:**

During planned work in water or stream diversions any discharge(s) to waters of the state shall conform to the following water quality standards:

- a. **Oil and Grease.** Waters shall not contain oils, greases, waxes or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect beneficial uses.
- b. **Dissolved Oxygen.** At a minimum, the mean annual dissolved oxygen concentration of all waters shall be greater than 7 mg/L, and no single determination shall be less than 5.0 mg/L, except when natural conditions cause lesser concentrations. The dissolved oxygen content of all surface waters designated as WARM shall not be depressed below 5 mg/L as a result of waste discharges.
- c. **pH.** The pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharges. Ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of waste discharge.
- d. **Turbidity.** Downstream TSS shall be maintained at ambient levels. Where natural turbidity is between 0 and 50 Nephelometric Turbidity Units (NTU), increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.

Sampling shall be conducted in accordance with Table 3 sampling parameters.⁵

⁵ Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, the method shall be approved by Los Angeles Water Board staff. Grab samples shall be taken between the surface and mid-depth and not be collected at the same time each day to get a complete representation of variations in the receiving water. A hand-held field meter may be used, provided the meter utilizes a U.S. EPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring shall be maintained onsite.

Parameter	Unit of Measurement	Type of Sample	Minimum Frequency
Oil and Grease	N/A	Visual	Continuous
Dissolved Oxygen	mg/L & % saturation	Grab	Daily for the first week, weekly, thereafter
pH	Standard Units	Grab	Daily for the first week, weekly, thereafter
Turbidity	NTU	Grab	Daily for the first week, weekly, thereafter
Temperature	°F (or as °C)	Grab	Daily for the first week, weekly, thereafter

Baseline sampling shall be conducted at a minimum of one location within the project boundary for each phase. All other sampling shall take place at a minimum of two locations. In streams or flowing water, the sample locations shall be upstream and downstream of the Project. Results of the analyses shall be submitted to this Regional Board by the 15th day of each subsequent sampling month. A map or drawing indicating the locations of sampling points shall be included with each submittal. A summary of results shall discuss the analysis. Every measurement not meeting the compliance limits shall be accompanied by an explanation, the actions taken to correct the degradation to waters, and addressed in *Violation of Compliance with Water Quality Standards* report described above.

D. Standard

1. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330, and California Code of Regulations, title 23, chapter 28, Article 6 commencing with sections 3867-3869, inclusive. Additionally, the Los Angeles Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to the Permittee, if the Los Angeles Water Board determines that: the Project fails to comply with any of the conditions of this Order; or, when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) or federal Clean Water Act section 303 (33 U.S.C. § 1313). For purposes of Clean Water Act section 401(d), the condition constitutes a limitation necessary to assure compliance with water quality standards and appropriate requirements of state law.
2. This Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license, unless the pertinent certification application was filed pursuant to subsection 3855(b) of chapter 28, title 23 of the California Code of Regulations, and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. This Order is conditioned upon total payment of any fee required under title 23 of the California Code of Regulations and owed by the Permittee.
4. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under state and federal law. For purposes of Clean Water Act, section 401(d), the

applicability of any state law authorizing remedies, penalties, processes, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Order.

E. General Compliance

1. Failure to comply with any condition of this Order shall constitute a violation of the Porter-Cologne Water Quality Control Act and the Clean Water Act. The Permittee and/or discharger may then be subject to administrative and/or civil liability pursuant to Water Code section 13385.
2. Permitted actions must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses for receiving waters as adopted in the Basin Plans by any applicable Los Angeles Water Board or any applicable State Water Board (collectively Water Boards) water quality control plan or policy. The source of any such discharge must be eliminated as soon as practicable.
3. In response to a suspected violation of any condition of this Order, the Los Angeles Water Board may require the holder of this Order to furnish, under penalty of perjury, any technical or monitoring reports the Water Boards deem appropriate, provided that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The additional monitoring requirements ensure that permitted discharges and activities comport with any applicable effluent limitations, water quality standards, and/or other appropriate requirement of state law.
4. The Permittee must, at all times, fully comply with engineering plans, specifications, and technical reports submitted to support this Order; and all subsequent submittals required as part of this Order. The conditions within this Order and Attachments supersede conflicting provisions within Permittee submittals.
5. This Order and all of its conditions contained herein continue to have full force and effect regardless of the expiration or revocation of any federal license or permit issued for the Project. For purposes of Clean Water Act, section 401(d), this condition constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements of state law.
6. **Construction General Permit Requirement:** If enrolled, the Permittee shall maintain compliance with conditions described in, and required by, NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ and NPDES No. CAS 000002 as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and any amendments thereto) (General Construction Permit).

F. Administrative

1. Signatory requirements for all document submittals required by this Order are presented in Attachment B of this Order.
2. This Order does not authorize any act which results in the taking of a threatened, endangered or candidate species or any act, which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish & G. Code, §§ 2050-2097) or the federal Endangered Species Act (16 U.S.C. §§ 1531-1544). If a "take" will result from any act

authorized under this Order held by the Permittee, the Permittee must obtain authorization for the take prior to any construction or operation of the portion of the Project that may result in a take. The Permittee is responsible for meeting all requirements of the applicable endangered species act for the Project authorized under this Order.

3. The Permittee shall grant Los Angeles Water Board staff, or an authorized representative (including an authorized contractor acting as a Water Board representative), upon presentation of credentials and other documents as may be required by law, permission to:
 - a. Enter upon the Project or compensatory mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records are kept.
 - b. Have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order.
 - c. Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order.
 - d. Sample or monitor for the purposes of assuring Order compliance.
4. A copy of this Order shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall remain at the Project site for the duration of this Order. The Permittee shall be responsible for work conducted by its consultants, contractors, and any subcontractors.
5. A copy of this Order must be available at the Project site(s) during construction for review by site personnel and agencies. All personnel performing work on the Project shall be familiar with the content of this Order and its posted location at the Project site.
6. Lake and Streambed Alteration Agreement – The Permittee shall submit a signed copy of the Department of Fish and Wildlife’s lake and streambed alteration agreement to the Los Angeles Water Board immediately upon execution and prior to any discharge to waters of the state.
7. This Order shall expire **five (5) years** from date of this Order. The Applicant shall submit a complete application at least 90 days prior to termination of this Order if renewal is requested.

G. Best Management Practices

1. The Permittee shall follow best management practices for all excavation, construction, or maintenance activities to minimize impacts to water quality and beneficial uses.
2. The Permittee shall install a debris fence at the base of the slopes and sand bags or stop logs along the base of the work site to prohibit dust/debris from leaving the site that could later find its way into the watercourse.
3. The Permittee shall have a qualified biological monitor available on-site if necessary.
4. The Permittee shall schedule all work to occur outside of bird nesting season. If work needs to be conducted within nesting bird season (March 15 - August 31), vegetation that provides potentially suitable habitat for nesting shall be surveyed weekly by a biologist within 48 hours of the start of work. Work shall only proceed once the biologist has confirmed that no nesting

birds are present. If a nest is discovered, an appropriate buffer determined by the biologist shall be designated and demarked with flagging for crews to avoid.

5. The Permittee shall ensure that fueling, lubrication, maintenance, operation, and storage of vehicles and equipment does not result in a discharge or a threatened discharge to waters of the State. At no time shall the Permittee use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment shall be located outside of waters of the State.
6. The Permittee shall not locate construction material, spoils, debris, or any other substances associated with this project that may adversely impact water quality standards in a manner which may result in a discharge or a threatened discharge to waters of the State. Designated spoil and waste areas shall be visually marked prior to any excavation and/or construction activity, and storage of the materials shall be confined to these areas.
7. The Permittee shall relocate all waste or dredged material removed to a legal point of disposal.
8. The Permittee shall ensure that the application of pesticides is supervised by a certified applicator and in conformance with manufacturer's specifications for use. Compounds used shall be appropriate to target species and habitat. Pesticide use shall be in accordance with State Water Resources Control Board Water Quality Orders for pesticide usage.
9. The Permittee shall not conduct any construction activities within waters of the State during a rainfall event. The Permittee shall maintain a five-day (5-day) clear weather forecast before conducting any operations within waters of the State.
10. If rain is predicted after operations have begun, the Permittee shall cease activities immediately and the site shall be stabilized to prevent impacts to water quality and minimize erosion and runoff from the site.
11. The Permittee shall utilize the services of a qualified biologist with expertise in riparian assessments during any vegetation clearing activities. The biologist shall be available on site during construction activities to ensure that all protected areas are marked properly and ensure that no vegetation outside the specified areas is removed. The biologist shall have the authority to stop the work, as necessary, if instructions are not followed. The biologist shall be available upon request from this Regional Board for consultation within 24 hours of request of consultation.
12. No activities shall involve wet excavations (i.e., no excavations shall occur below the seasonal high water table). A minimum 5-foot buffer zone shall be maintained above the existing groundwater level. If construction or groundwater dewatering is proposed or anticipated, the Permittee shall file a Report of Waste Discharge (ROWD) to the Los Angeles Water Board and obtain any necessary NPDES permits/Waste Discharge Requirements prior to discharging waste.
13. The monitoring biologist will identify locations with a New Zealand mudsnail population before work begins. If equipment comes into contact near the four 78-inch flapgate location, the Permittee will follow the practices listed in the 2010 Hazard Analysis and Critical Control Point

(HACCP) Soft-Bottom Channel Maintenance Activities Within the Malibu and Santa Monica Canyon Watersheds.

14. The project shall comply with the local regulations associated with the Los Angeles Water Board’s Municipal Stormwater Permit issued to Discharges within the Coastal Watersheds of Los Angeles and Ventura Counties under NPDES No. CAS004004 and Waste Discharge Requirements Order No. R4-2021-0105 or subsequent order.

H. On-site Mitigation for Temporary Impacts

1. The Permittee shall restore all areas of temporary impacts to waters of the state and all Project site upland areas of temporary disturbance which could result in a discharge of waters of the state.
2. Restoration shall include grading of disturbed areas to pre-project contours. Areas of temporary impacts will revegetate naturally until the next annual maintenance.

Table 4: Required Project Mitigation Quantity for Temporary Impacts								
Aquatic Resource Type	Mit. Type ⁶	Units	Method ⁷					
			Est.	Re-est.	Reh.	Enh.	Pres.	Unknown
Stream Channel	PR	Acres			289.19			

I. Compensatory Mitigation for Permanent Impacts⁸

1. Total Required Compensatory Mitigation

- a. The Permittee is required to provide compensatory mitigation for the authorized permanent impact to stream channel by enhancement at a minimum 1:1 area replacement ratio (8.2 acres). Mitigation will consist of enhancement in the area by allowing native vegetation to reestablish itself after non-natives have been removed. Mitigation requirements have been set based the understanding of the strict USACE flood levee requirements. Additional compensatory mitigation will be assessed in future renewals of this certification if impacts exceed the original footprint.
- b. Total required Project compensatory mitigation information for permanent physical loss of area, ecological degradation and temporal loss is summarized in Table 5.

⁶ Mitigation type for onsite restoration of temporary impacts is Permittee Responsible (PR).

⁷ Methods: establishment (Est.), reestablishment (Re-est.), rehabilitation (Reh.), enhancement (Enh.), preservation (Pres.). Unknown applies to advance credits with an unknown method and or location.

⁸ Compensatory Mitigation is for permanent physical loss and permanent ecological degradation of a water of the state.

Table 5: Required Project Compensatory Mitigation Quantity								
Aquatic Resource Type	Comp Mit. Type ⁹	Units	Method ¹⁰					
			Est.	Re-est.	Reh.	Enh.	Pres.	Unknown
Stream Channel	PR	Acres				8.2		

XIII. Water Quality Certification

I hereby issue the Order for the Annual Maintenance of Soft Bottom Channel Reaches (SBC) Reach 112 (Ballona Creek), Reach 114 (Lower Los Angeles River), Reach 115 (Lower San Gabriel River), and Reaches 118 and 119 (Rivas and Rustic Canyons), 4WQC40115038, certifying that as long as all of the conditions listed in this Order are met, any discharge from the referenced Project will comply with the applicable provisions of Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards).

This discharge is also regulated pursuant to State Water Board Water Quality Order No. 2003-0017-DWQ which authorizes this Order to serve as Waste Discharge Requirements pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

Except insofar as may be modified by any preceding conditions, all Order actions are contingent on: (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the conditions of this Order and the attachments to this Order; and, (b) compliance with all applicable requirements of Statewide Water Quality Control Plans and Policies, the Regional Water Boards' Water Quality Control Plans and Policies.

June 6, 2022

 Renee Purdy
 Executive Officer
 Los Angeles Water Quality Control Board

 Date

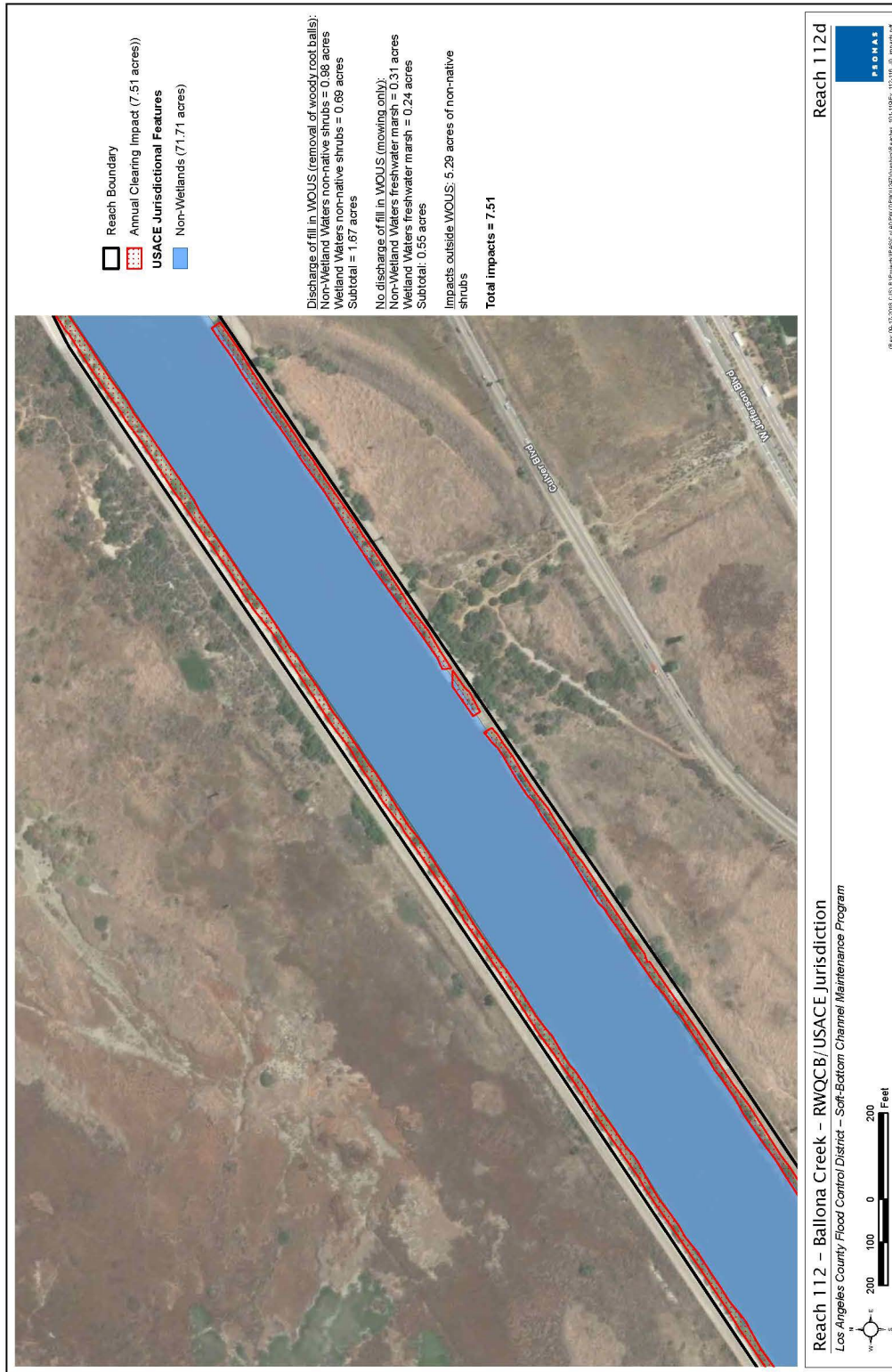
⁹ Compensatory mitigation type may be: In-Lieu-Fee (ILF); Mitigation Bank (MB); Permittee-Responsible (PR)

¹⁰ Methods: establishment (Est.), reestablishment (Re-est.), rehabilitation (Reh.), enhancement (Enh.), preservation (Pres.). Unknown applies to advance credits with an unknown method and or location.

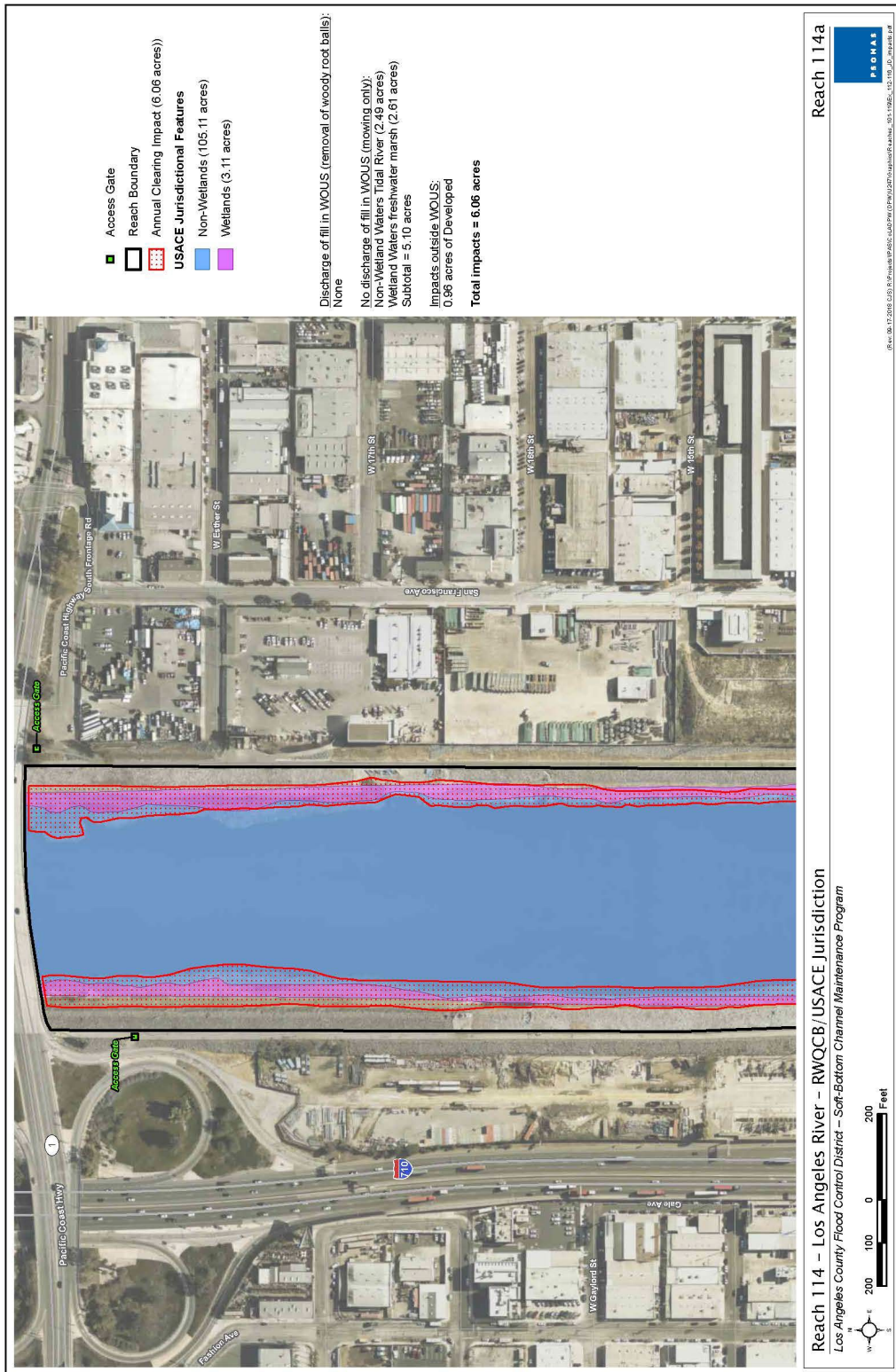
Reach 112



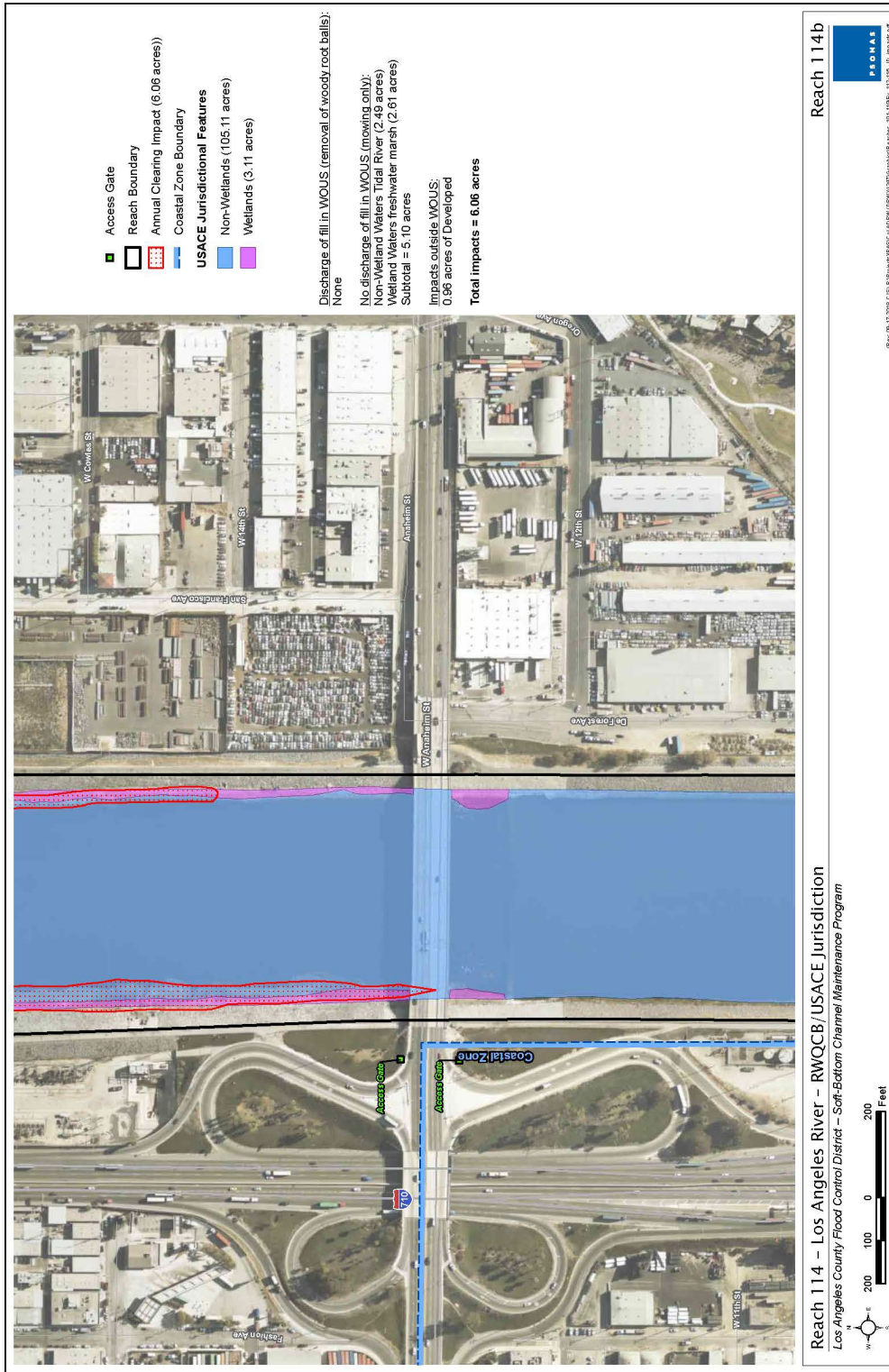
Reach 112



Reach 114



Reach 114



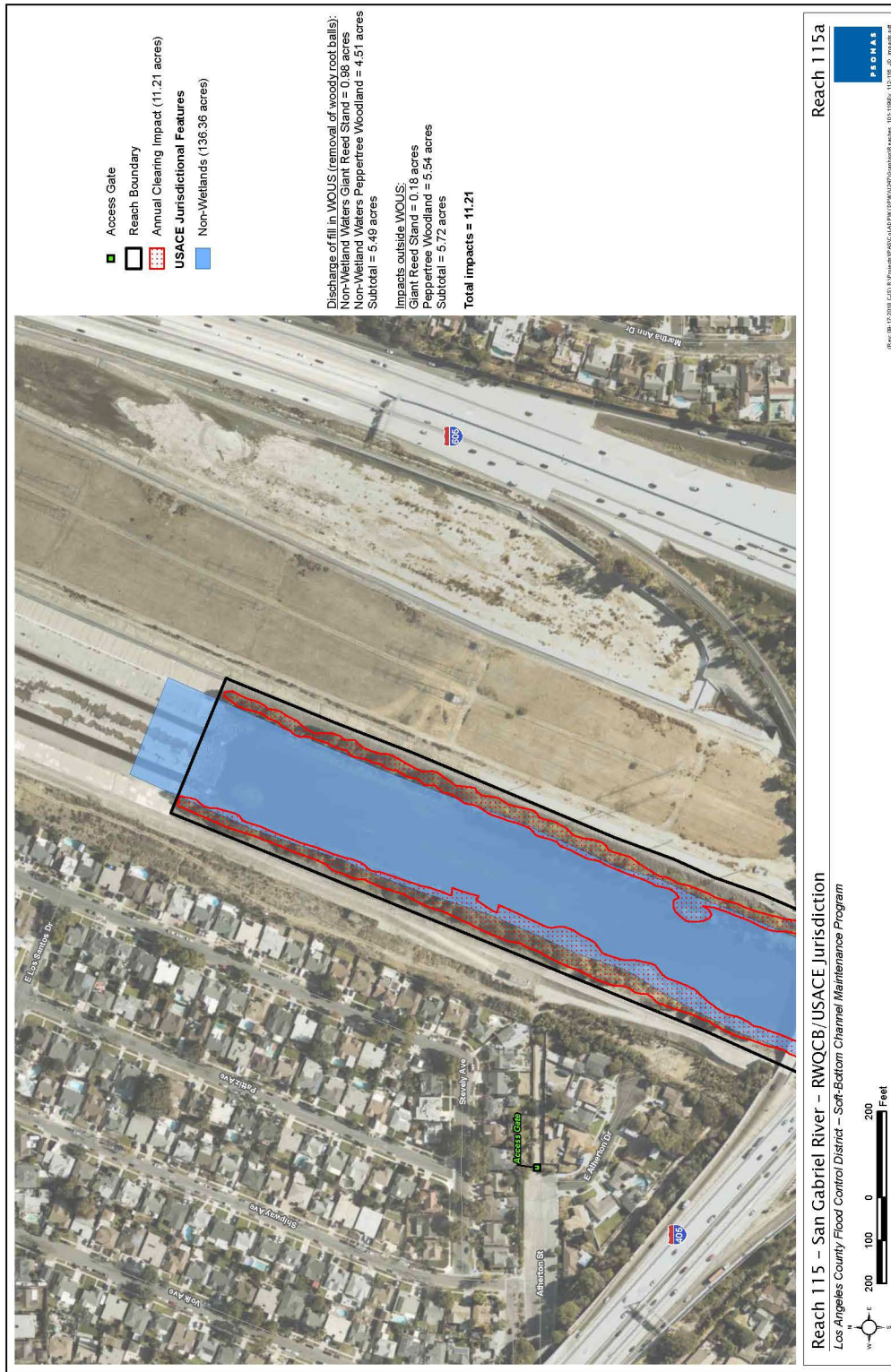
Reach 114



Reach 114



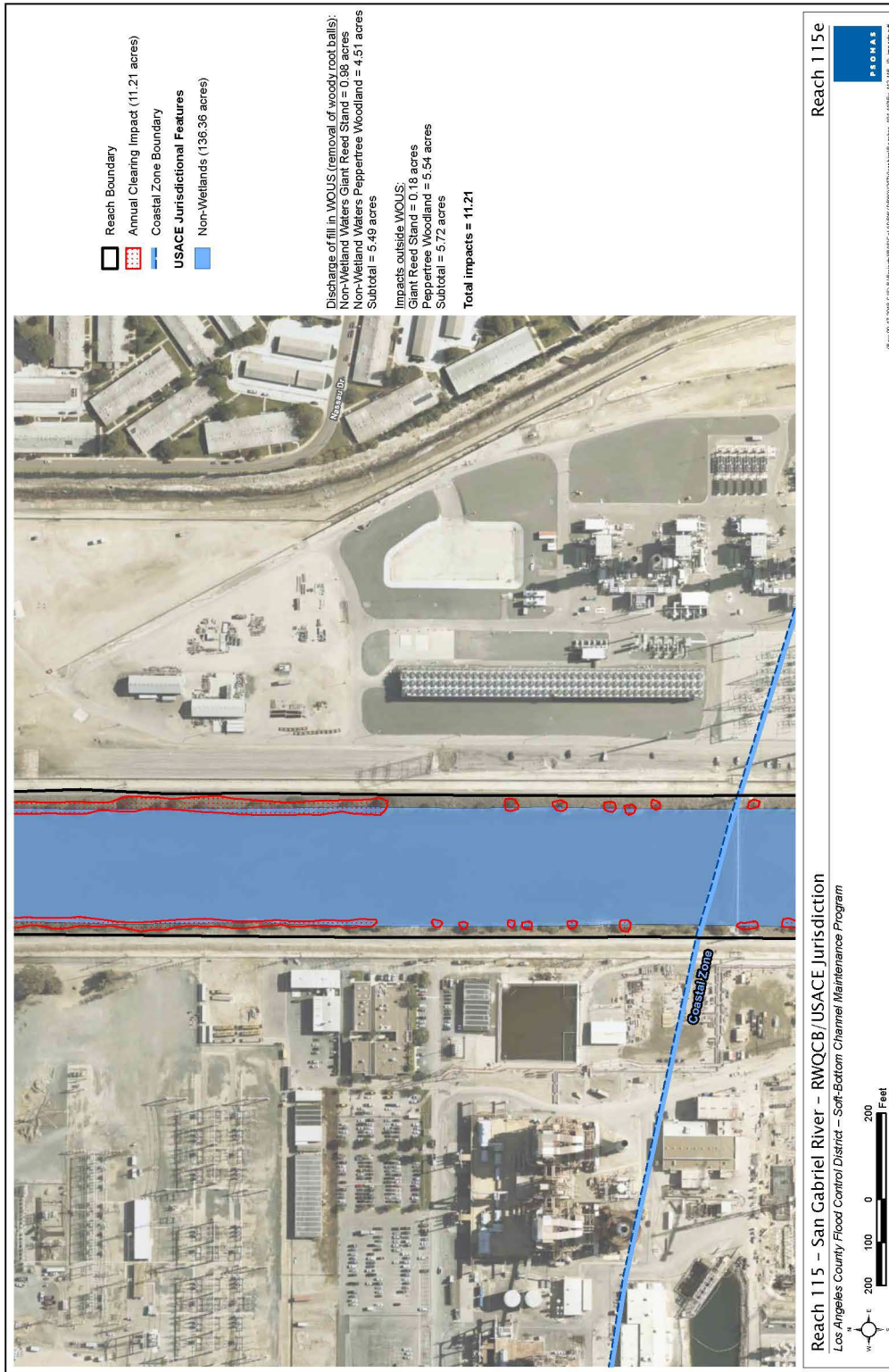
Reach 115



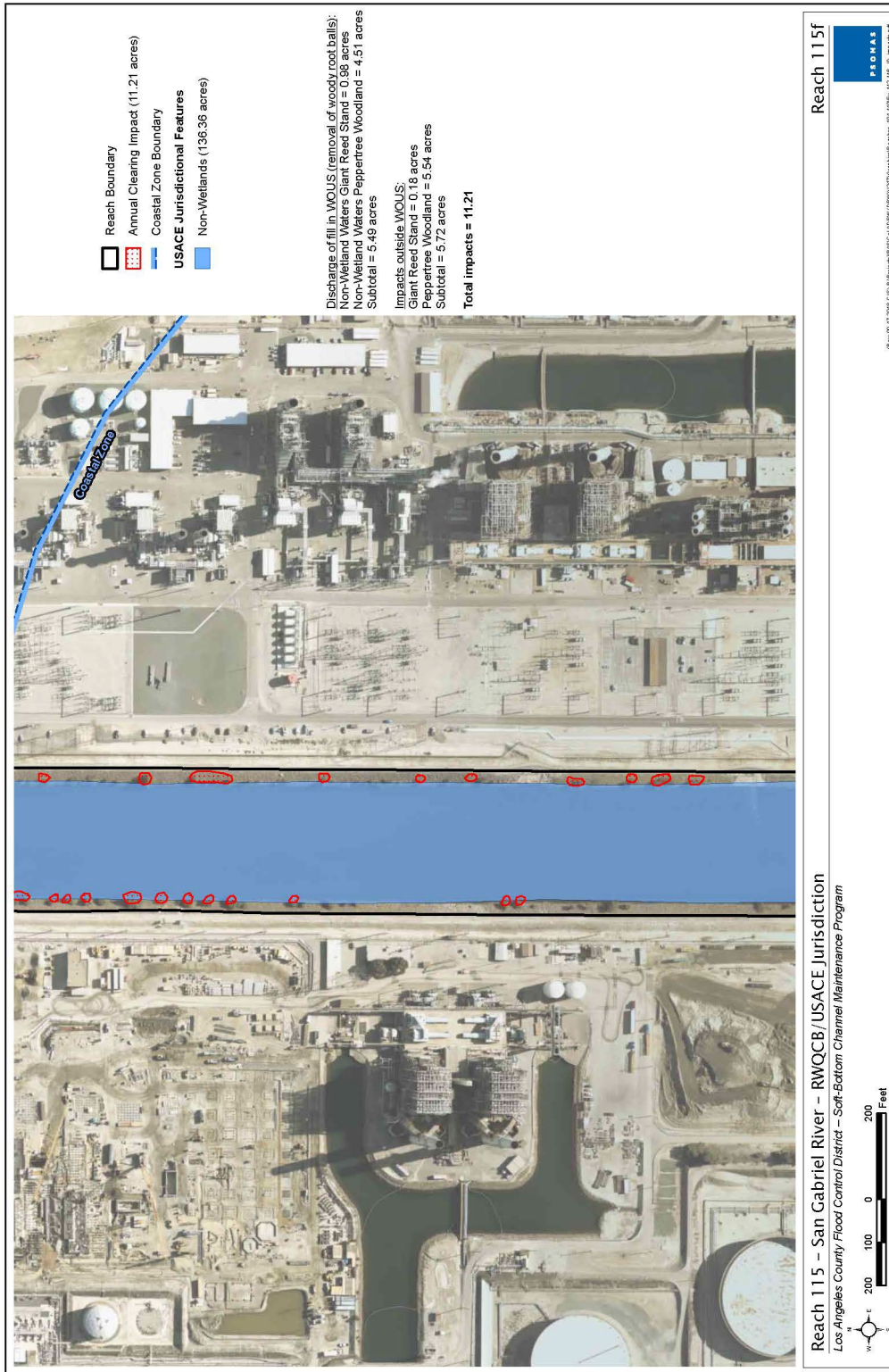
Reach 115



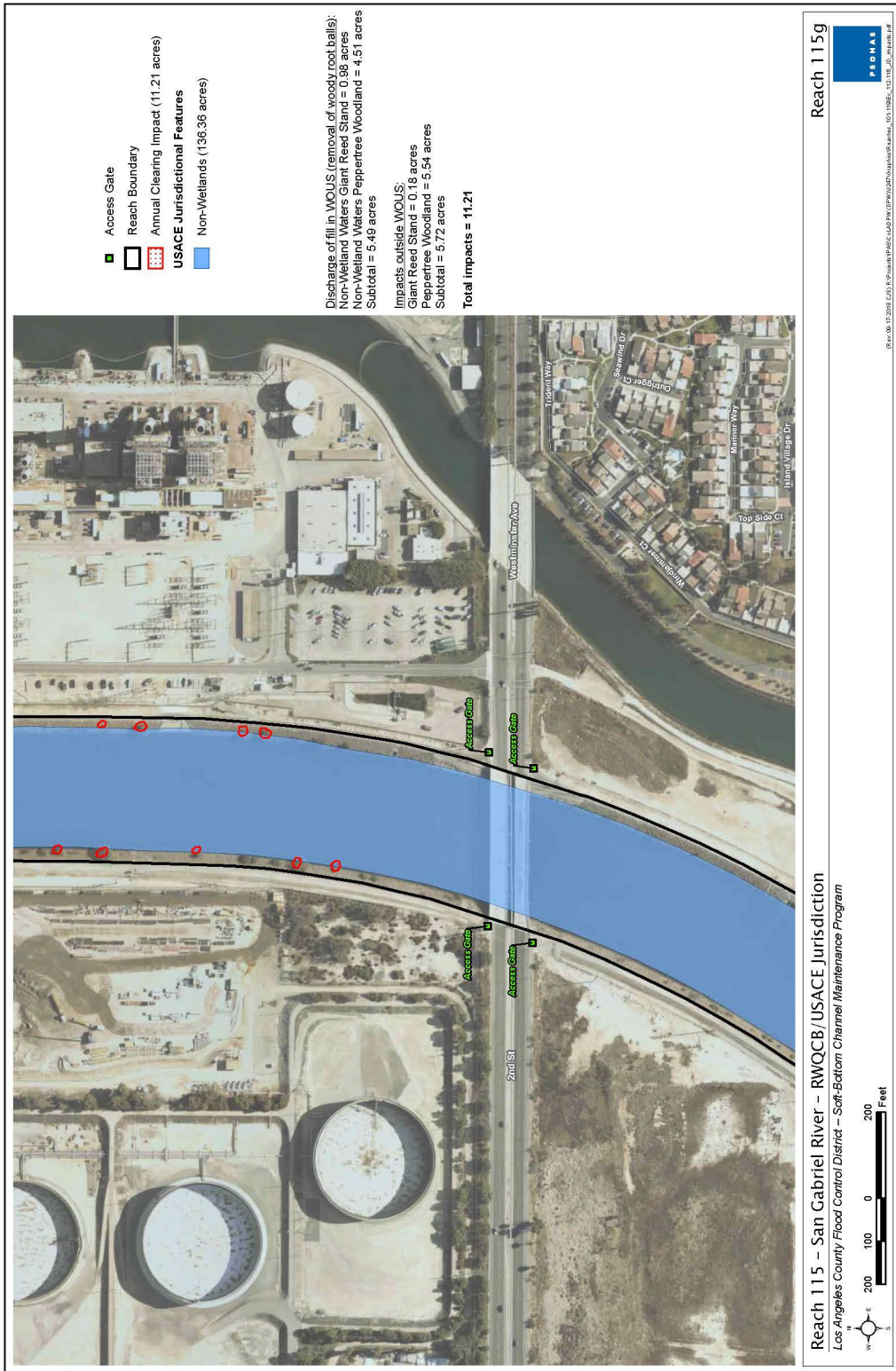
Reach 115



Reach 115



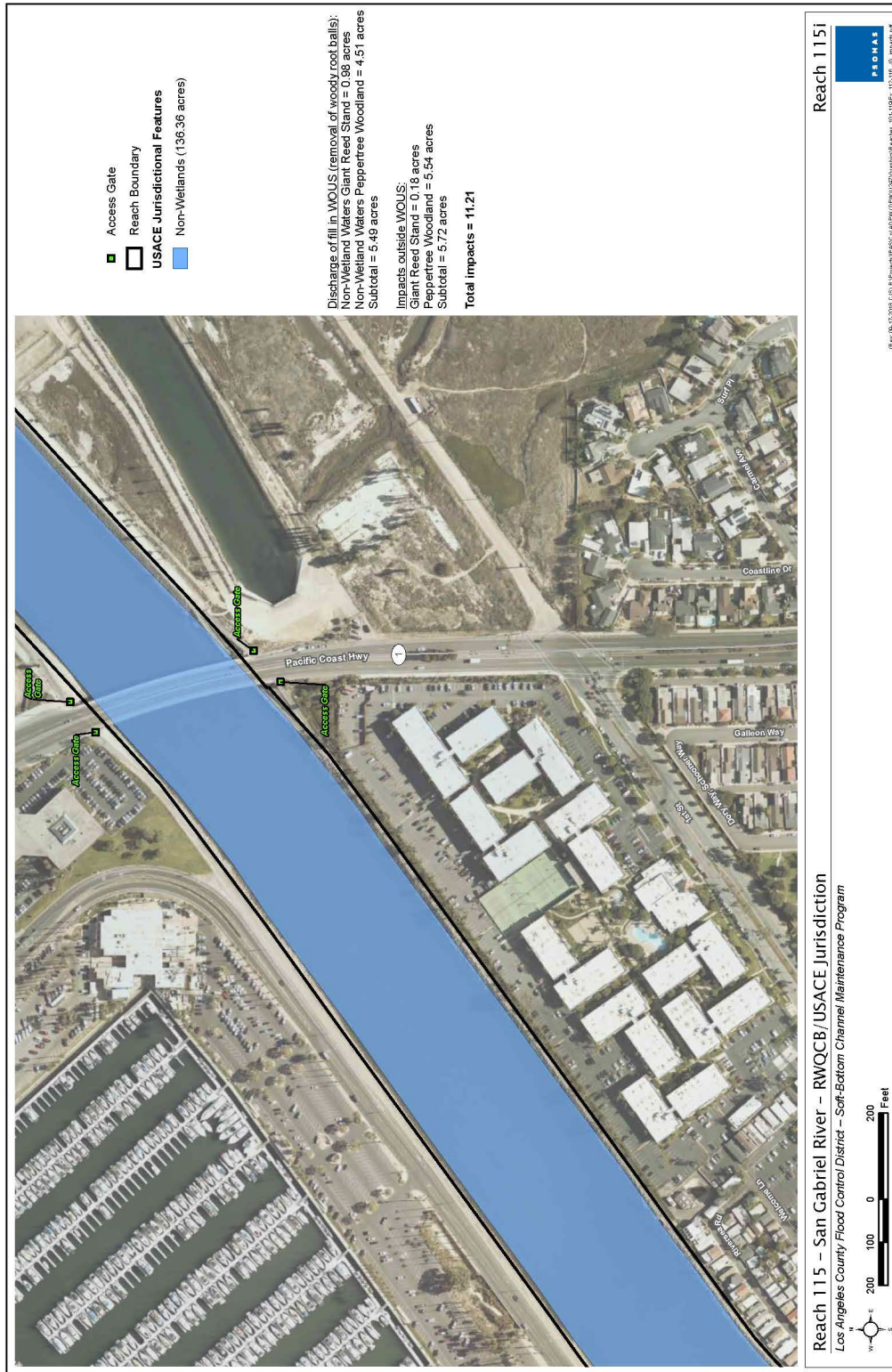
Reach 115



Reach 115



Reach 115



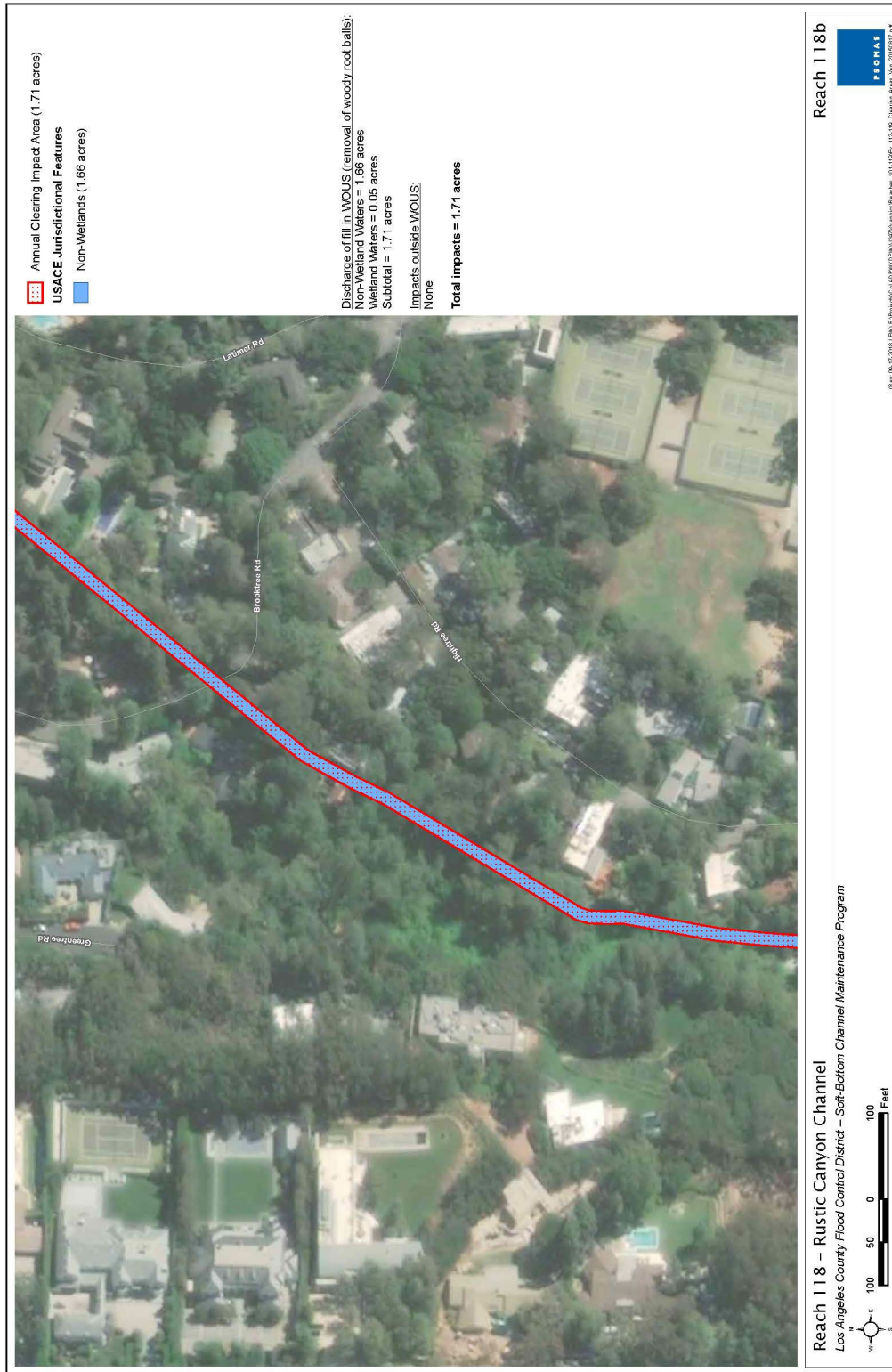
Reach 115



Reaches 118 and 119



Reaches 118 and 119



Reaches 118 and 119



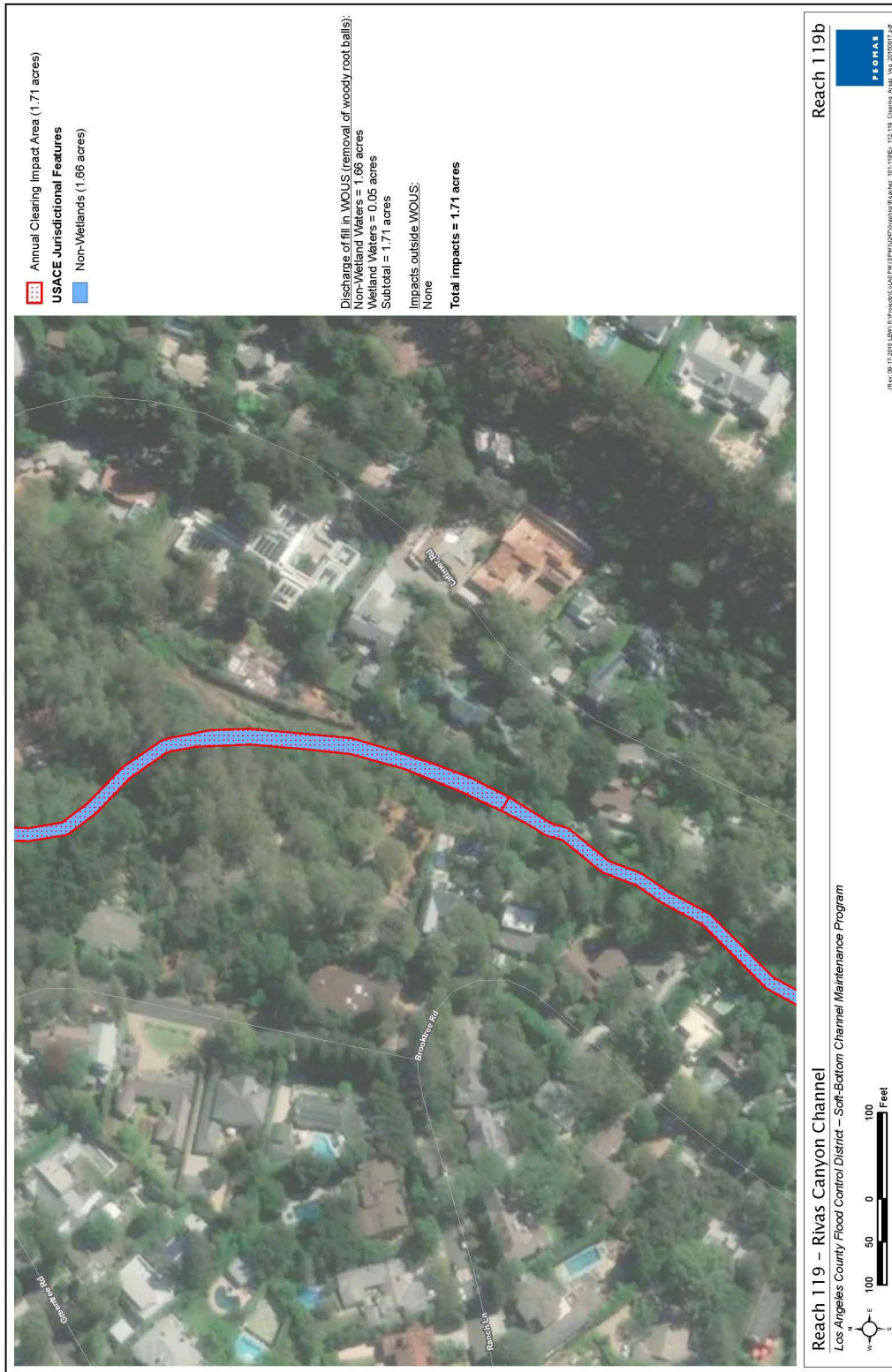
Reaches 118 and 119



Reaches 118 and 119



Reaches 118 and 119



Attachment B
Signatory Requirements

SIGNATORY REQUIREMENTS

*All Documents Submitted In Compliance With This Order
Shall Meet The Following Signatory Requirements:*

1. All applications, reports, or information submitted to the Los Angeles Water Quality Control Board (Los Angeles Water Board) must be signed and certified as follows:
 - a) For a corporation, by a responsible corporate officer of at least the level of vice-president.
 - b) For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
 - c) For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
2. A duly authorized representative of a person designated in items 1.a through 1.c above may sign documents if:
 - a) The authorization is made in writing by a person described in items 1.a through 1.c above.
 - b) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
 - c) The written authorization is submitted to the Los Angeles Water Board Staff Contact prior to submitting any documents listed in item 1 above.
3. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Copies of this Form

Include a copy of the Project specific Cover Sheet below with your report: please retain a copy for your records.

Report Submittal Instructions

1. Check the box on the Report and Notification Cover Sheet next to the report or notification you are submitting.
 - **Part A (Annual Report):** This report will be submitted annually from the anniversary of Project effective date until a Notice of Project Complete Letter is issued.
 - **Part B (Project Status Notifications):** Used to notify the Los Angeles Water Board of the status of the Project schedule that may affect Project billing.
 - **Part C (Conditional Notifications and Reports):** Required on a case by case basis for accidental discharges of hazardous materials, violation of compliance with water quality standards, notification of in-water work, or other reports.
2. Sign the Report and Notification Cover Sheet and attach all information requested for the Report Type.
3. **Electronic Report Submittal Instructions:**
 - Submit signed Report and Notification Cover Sheet and required information via email to: Valerie.CarrilloZara@waterboards.ca.gov
 - Include in the subject line of the email:
Subject: ATTN: Valerie CarrilloZara; File No: 15-038, Reg. Measure ID: 401455 Report

Definition of Reporting Terms

1. **Active Discharge Period:** The active discharge period begins with the effective date of this Order and ends on the date that the Permittee receives a Notice of Completion of Discharges Letter or, if no post-construction monitoring is required, a Notice of Project Complete Letter. The Active Discharge Period includes all elements of the Project including site construction and restoration, and any Permittee responsible compensatory mitigation construction.
2. **Request for Notice of Completion of Discharges Letter:** This request by the Permittee to the Los Angeles Water Board staff pertains to projects that have post construction monitoring requirements, e.g. if site restoration was required to be monitored for 5 years following construction. Los Angeles Water Board staff will review the request and send a Completion of Discharges Letter to the Permittee upon approval. This letter will initiate the post-discharge monitoring period and a change in fees from the annual active discharge fee to the annual post-discharge monitoring fee.

3. **Request for Notice of Project Complete Letter:** This request by the Permittee to the Los Angeles Water Board staff pertains to projects that either have completed post-construction monitoring and achieved performance standards or have no post-construction monitoring requirements, and no further Project activities are planned. Los Angeles Water Board staff will review the request and send a Project Complete Letter to the Permittee upon approval. Termination of annual invoicing of fees will correspond with the date of this letter.
4. **Post-Discharge Monitoring Period:** The post-discharge monitoring period begins on the date of the Notice of Completion of Discharges Letter and ends on the date of the Notice of Project Complete Letter issued by the Los Angeles Water Board staff. The Post-Discharge Monitoring Period includes continued water quality monitoring or compensatory mitigation monitoring.
5. **Effective Date:** Date of Order issuance.

Map/Photo Documentation Information

When submitting maps or photos, please use the following formats.

1. **Map Format Information:**

Preferred map formats of at least 1:24000 (1" = 2000') detail (listed in order of preference):

- **GIS shapefiles:** The shapefiles must depict the boundaries of all project areas and extent of aquatic resources impacted. Each shape should be attributed with the extent/type of aquatic resources impacted. Features and boundaries should be accurate to within 33 feet (10 meters). Identify datum/projection used and if possible, provide map with a North American Datum of 1983 (NAD38) in the California Teale Albers projection in feet.
 - **Google KML files** saved from Google Maps: My Maps or Google Earth Pro. Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. Include URL(s) of maps. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
 - **Other electronic format** (CAD or illustration format) that provides a context for location (inclusion of landmarks, known structures, geographic coordinates, or USGS DRG or DOQQ). Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
 - Aquatic resource maps marked on paper **USGS 7.5 minute topographic maps** or **Digital Orthophoto Quarter Quads (DOQQ)** printouts. Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
2. **Photo-Documentation:** Include a unique identifier, date stamp, written description of photo details, and latitude/longitude (in decimal degrees) or map indicating location of photo. Successive photos should be taken from the same vantage point to compare pre/post construction conditions.

REPORT AND NOTIFICATION COVER SHEET

Project: Soft-Bottom Channel Reach 114 Annual Maintenance
Permittee: Los Angeles County Flood Control District
Reg. Meas. ID: 401455 **Place ID:** 401455 **File No:** 15-038

Report Type Submitted

Part A – Project Reporting

Report Type **Annual Report**

Part B - Project Status Notifications

Report Type **Commencement of Construction**

Report Type **Request for Notice of Completion of Discharges Letter**

Report Type **Request for Notice of Project Complete Letter**

Part C - Conditional Notifications and Reports

Report Type **Accidental Discharge of Hazardous Material Report**

Report Type **Violation of Compliance with Water Quality Standards Report**

Report Type **In-Water Work/Diversions Water Quality Monitoring Report**

Report Type **Modifications to Project Report**

Report Type **Transfer of Property Ownership Report**

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Print Name ¹

Affiliation and Job Title

Signature

Date

¹STATEMENT OF AUTHORIZATION (include if authorization has changed since application was submitted)

I hereby authorize _____ to act in my behalf as my representative in the submittal of this report, and to furnish upon request, supplemental information in support of this submittal.

Permittee's Signature

Date

***This Report and Notification Cover Sheet must be signed by the Permittee or a duly authorized representative and included with all written submittals.**

Part A – Project Reporting

Report Type	Annual Report
Report Purpose	Notify the Los Angeles Water Board staff of Project status during both the active discharge and post-discharge monitoring periods.
When to Submit	Annual reports shall be submitted each year on the anniversary of Project effective date. Annual reports shall continue until a Notice of Project Complete Letter is issued to the Permittee.
Report Contents	<p>The contents of the annual report shall include the topics indicated below for each project period. Report contents are outlined in Annual Report Topics below.</p> <p><u>During the Active Discharge Period</u></p> <ul style="list-style-type: none"> • Topic 1: Construction Summary • Topic 2: Mitigation for Temporary Impacts Status • Topic 3: Compensatory Mitigation for Permanent Impacts Status <p><u>During the Post-Discharge Monitoring Period</u></p> <ul style="list-style-type: none"> • Topic 2: Mitigation for Temporary Impacts Status • Topic 3: Compensatory Mitigation for Permanent Impacts Status
Annual Report Topics (1-3)	
Annual Report Topic 1	Construction Summary
When to Submit	With the annual report during the Active Discharge Period.
Report Contents	<ol style="list-style-type: none"> 1. Project progress and schedule including initial ground disturbance, site clearing and grubbing, road construction, site construction, and the implementation status of construction storm water best management practices (BMPs). If construction has not started, provide estimated start date and reasons for delay. 2. Color photos, pre-project and current. 3. Map showing general Project progress. 4. If applicable: <ol style="list-style-type: none"> a. Summary of any conditional reports sent during the year such as “Accidental Discharge of Hazardous Material Report” or “Accidental Discharge of Hazardous Material Report” b. Copies of revised permits from other agencies c. Compilation of all water quality monitoring results for the year in a spreadsheet format.
Annual Report Topic 2	Mitigation for Temporary Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post-Discharge Monitoring Period.

Report Contents	<p>*If not applicable report N/A.</p> <ol style="list-style-type: none"> 1. Planned date of initiation and map showing locations of mitigation for temporary impacts to waters of the state and all upland areas of temporary disturbance which could result in a discharge to waters of the state. 2. If mitigation for temporary impacts has already commenced, provide a map and information concerning attainment of mitigation success.
Annual Report Topic 3	Compensatory Mitigation for Permanent Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post-Discharge Monitoring Period.
Report Contents	<p>*If not applicable report N/A.</p> <p>Part A. Permittee Responsible</p> <ol style="list-style-type: none"> 1. Planned date of initiation of compensatory mitigation site installation. 2. If installation is in progress, a map of what has been completed to date. 3. If the compensatory mitigation site has been installed, provide a final map and information concerning attainment of performance standards contained in the compensatory mitigation plan. <p>Part B. Mitigation Bank or In-Lieu Fee</p> <ol style="list-style-type: none"> 1. Status or proof of purchase of credit types and quantities. 2. Include the name of bank/ILF Program and contact information. 3. If ILF, location of project and type if known.

Part B – Project Status Notifications

Report Type	Request for Notice of Completion of Discharges Letter
Report Purpose	Notify Los Angeles Water Board staff that post-construction monitoring is required and that active Project construction, including any mitigation and permittee responsible compensatory mitigation, is complete.
When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities.
Report Contents	<ol style="list-style-type: none"> 1. Pre- and post-photo documentation of all Project activity sites where the discharge of dredge and/or fill/excavation was authorized. 2. An updated monitoring schedule for mitigation for temporary impacts to waters of the state and permittee responsible compensatory mitigation during the post-discharge monitoring period, if applicable.

Report Type	Request for Notice of Project Complete Letter
Report Purpose	Notify Los Angeles Water Board staff that construction and/or any post-construction monitoring is complete, or is not required, and no further Project activity is planned.

When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents	<p>Part A: Mitigation for Temporary Impacts</p> <ol style="list-style-type: none"> 1. A report establishing that areas of temporary impacts to waters of the state, and upland areas of temporary disturbance which could result in a discharge to waters of the state, have been successfully restored and all identified success criteria have been met. Pre- and post-photo documentation of all restoration sites. <p>Part B: Permittee Responsible Compensatory Mitigation</p> <ol style="list-style-type: none"> 2. A report establishing that the performance standards outlined in the compensatory mitigation plan have been met. 3. Status on the implementation of the long-term maintenance and management plan and funding of endowment. 4. Pre- and post-photo documentation of all compensatory mitigation sites. 5. Final maps of all compensatory mitigation areas (including buffers). <p>Part C: Post-Construction Storm Water BMPs</p> <ol style="list-style-type: none"> 6. Date of storm water permit Notice of Termination(s), if applicable. 7. Report status and functionality of all post-construction BMPs.

Part C – Conditional Notifications and Reports

Report Type	Accidental Discharge of Hazardous Material Report
Report Purpose	Notifies Los Angeles Water Board staff that an accidental discharge of hazardous material has occurred.
When to Submit	Within five (5) working days following the date of an accidental discharge. Continue reporting as required by Los Angeles Water Board staff.
Report Contents	<ol style="list-style-type: none"> 1. The report shall include the OES Incident/Assessment Form, a full description and map of the accidental discharge incident (i.e. location, time and date, source, discharge constituent and quantity, aerial extent, and photo documentation). If applicable, the OES Written Follow-Up Report may be substituted. 2. If applicable, any required sampling data, a full description of the sampling methods including frequency/dates and times of sampling, equipment, locations of sampling sites. 3. Locations and construction specifications of any barriers, including silt curtains or diverting structures, and any associated trenching or anchoring.

Report Type	Violation of Compliance with Water Quality Standards Report
Report Purpose	Notifies Los Angeles Water Board staff that a violation of compliance with water quality standards has occurred.

When to Submit	The Permittee shall report any event that causes a violation of water quality standards within three (3) working days of the noncompliance event notification to Los Angeles Water Board staff.
Report Contents	The report shall include: the cause; the location shown on a map; and the period of the noncompliance including exact dates and times. If the noncompliance has not been corrected, include: the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and any monitoring results if required by Los Angeles Water Board staff.

Report Type	In-Water Work and Diversions Water Quality Monitoring Report
Report Purpose	Notifies Los Angeles Water Board staff of the completion of in-water work.
When to Submit	Within three (3) working days following the completion of in-water work. Continue reporting in accordance with the approved water quality monitoring plan.
Report Contents	As required by the approved water quality monitoring plan.

Report Type	Modifications to Project Report
Report Purpose	Notifies Los Angeles Water Board staff if the Project, as described in the application materials, is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority.
When to Submit	Prior to any alteration or modification of Project activities.
Report Contents	A description and location of any alterations of Project activities. Identify any Project modifications that will interfere with the Permittee's compliance with the Order. Any alteration may require an Amendment, to be determined by Los Angeles Water Board staff.

Report Type	Transfer of Property Ownership Report
Report Purpose	Notifies Los Angeles Water Board staff of change in ownership of the Project or Permittee-responsible mitigation area.
When to Submit	At least 10 working days prior to the transfer of ownership.
Report Contents	<ol style="list-style-type: none"> 1. A statement that the Permittee has provided the purchaser with a copy of this Order and that the purchaser understands and accepts: <ol style="list-style-type: none"> a. the Order's requirements and the obligation to implement them or be subject to administrative and/or civil liability for failure to do so; and b. responsibility for compliance with any long-term BMP¹ maintenance plan requirements in this Order. 2. A statement that the Permittee has informed the purchaser to submit a written request to the Los Angeles Water Board to be named as the permittee in a revised order.

¹ Best Management Practices (BMPs) is a term used to describe a type of water pollution or environmental control.

Compliance with Code of Federal Regulations, title 40, section 121.7, subdivision (d).

The purpose of this attachment is to comply with Title 40, Code of Federal Regulations (CFR) Part 121.7(d)(1), which requires an explanation of why a condition is necessary to assure that the authorized discharge will comply with water quality requirements, and a citation to federal, state, or tribal law that authorizes the condition.

This Attachment uses the same organizational structure as the *Conditions* Section, and the statements below correspond with the conditions set forth in the *Conditions* Section. The Sections preceding the *Conditions* Section are not “conditions” as used in 40 CFR section 121.7.(A).

The following three sources of authority are applicable to almost all conditions. Because these authorities are relevant to so many conditions, they are described in greater detail here and then cross-referenced below.

The state’s Statement of Policy with respect to Maintaining High Quality of Waters in California (“Antidegradation Policy”, State Board Resolution No. 68-16), requires that any “activity which produces or may produce a waste or increased volume or concentration of waste and which discharges or proposes to discharge to existing high quality waters will be required to meet waste discharge requirements which will result in the best practicable treatment or control of the discharge necessary to assure that (a) a pollution or nuisance will not occur and (b) the highest water quality consistent with maximum benefit to the people of the state will be maintained.” All Regional Board Water Quality Control Plans incorporate the state’s Antidegradation Policy by reference. The state Antidegradation Policy incorporates the federal Antidegradation Policy (40 CFR Part 131.12), which requires “[e]xisting instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.” According to U.S. EPA, for dischargers of dredged or fill material comply with the federal Antidegradation Policy by complying with U.S. EPA’s section 404(b)(1) Guidelines. The State Water Board adopted a modified version of U.S. EPA’s section 404(b)(1) Guidelines in the Dredge or Fill Procedures (also referred as State Supplemental Guidelines).

The State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Dredge or Fill Procedures) were adopted on April 2, 2019 and went into effect on May 28, 2020. The Dredge or Fill Procedures were adopted pursuant to the State Water Board’s authority under Water Code section 13140 (state policy for water quality control) and 13170 (water quality control plan), and accordingly have regulatory effect. Consistent with Government Code, section 11353, a clear and concise summary of the Dredge or Fill Procedures is available in California Code of Regulations, section 3013. Per the Dredge or Fill Procedures, the permitting authority may only approve a project if the demonstrations set forth in Section IV.B.1 have been made. The information required by Section IV.A is necessary to ensure compliance with Section IV.B.1.

In addition, the conditions within the Order are generally required pursuant to the Los Angeles Water Board’s Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (Basin Plan). The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies. For instance, the Basin Plan

includes water quality objectives for chemical constituents, oil and grease, pH, dissolved oxygen, temperature, , toxicity, pesticides, solid, suspended or settleable materials, floating material, turbidity, exotic vegetation, color, and taste and odor which ensure protection of beneficial uses.

Furthermore, the conditions within the Order are also required, where applicable, pursuant to statewide water quality control plans and policies which were adopted and are periodically revised pursuant to Water Code section 13240, including, but not limited to, the following:

- Inland Surface Waters, Enclosed Bays, and Estuaries (ISWEBE) Plan,
- Plan for California's Nonpoint Source (NPS) Pollution Control Program,
- Policy for the Implementation and Enforcement of the Nonpoint Source (NPS) Pollution Control Program, and
- State of California Executive Order W-59-93 (Wetlands "No Net Loss" Policy).

Furthermore, California Code of Regulations, title 23, Chapter 28 also sets forth regulations pertaining to water quality certifications. Section 3856 sets forth information that must be included in water quality certification requests, includes a description of steps that have or will be taken to avoid, minimize, and compensate for impacts to waters of the state.

Conditions

Authorization

Authorization under this Order is granted based on the application information submitted. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Reporting and Notification Requirements

The reports confirm that the best management practices required under this Order are sufficient to protect beneficial uses and water quality objectives. The reports related to accidental discharges also ensure that corrective actions, if any, that are necessary to minimize the impact or clean up such discharges are taken as soon as possible. These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonable relationship to the benefits to be obtained from the reports. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities). The anticipated costs are minimal as the reporting obligations require only visual monitoring, in-field measurements, and notification reporting.

Authorization under this Order is granted based on the application information submitted, including identification of the legally responsible party. Conditions regarding transfers are necessary to confirm whether the new owner wishes to assume legal responsibility for compliance with this Order. If not, the original discharger remains responsible for compliance with this Order. Confirmation is also necessary to confirm whether liability for long-term best

management practices maintenance is accepted by another entity. If not, the original discharger remains responsible for compliance with this Order. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Water Quality Monitoring

General

This monitoring condition is authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of monitoring, including costs, bears a reasonable relationship to the need for the monitoring, and the benefits to be obtained from the monitoring. The anticipated costs are minimal as only visual monitoring and in-field measurements are required. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities

Accidental Discharges/Noncompliance

See explanation for the *Reporting and Notification Requirements* Section

In-Water Work or Diversions

Consistent with the Dredge or Fill Procedures, section IV.A.2.c, water quality monitoring plans are required for any in-water work, including temporary dewatering or diversions. These conditions are required to assure that 1) the discharge shall not adversely affect the beneficial uses of the receiving water or cause a condition of nuisance; 2) the discharge shall comply with all applicable water quality objectives; and 3) treatment and control of the discharge shall be implemented to assure that pollution and nuisance will not occur and the highest water quality is maintained. A water quality monitoring plan is necessary to conform to water quality standards for oil and grease, dissolved oxygen, pH, turbidity, and temperature. The Regional Water Board's Basin Plan and/or applicable statewide plans and policies contains provisions related to all these constituents.

These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonable relationship to the need for, and benefits of, the reports. The anticipated costs are minimal as the sampling requirements are either visual or only require a grab sample on a daily and/or weekly basis. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities

Post-Construction

The reports confirm that the best management practices required under this order are sufficient to protect beneficial uses and water quality objectives. The reports related to accidental discharges ensure that corrective actions, if any, that are necessary to minimize the impact or clean up such discharges are taken as soon as possible. These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonable relationship to the need

for, and benefits of, the reports. The anticipated costs are minimal as the reporting obligations require only visual monitoring, in-field measurements, and notification reporting.

Standard Conditions

“This Order is subject to modification or revocation ...”

“This Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility ...”

“This Order is conditioned upon total payment of any fee ...”

These Conditions are standard conditions that “shall be included as conditions of all water quality certification actions.” (Cal. Code of Regs., section 3860.)

General Compliance

“Permitted actions must not cause a violation of any applicable water quality standards ...”

By the plain language of section 401 of the Clean Water Act, permitted actions may not cause a violation of applicable water quality standards. This condition related to compliance with water quality objectives and designated beneficial uses is required pursuant to the Los Angeles Water Board’s Basin Plan and/or other applicable statewide plans and policies. The Basin Plan’s water quality standards consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies. The Antidegradation Policy requires that the quality of existing high-quality water be maintained unless any change will be consistent with the maximum benefit to the people of the state, will not unreasonably affect present or anticipated future beneficial uses of such water, and will not result in water quality less than that prescribed in water quality control plans or policies. The Antidegradation Policy further requires best practicable treatment or control of the discharge necessary to assure that pollution or nuisance will not occur and the highest water quality consistent with maximum benefit to the people of the state will be maintained. Applicable beneficial uses and water quality objectives to protect those uses include the designated beneficial uses (Basin Plan, Chapter 2, Tables 2-1, 2-1a, 2-3, 2-3a, 2-4, and 2-4a, and water quality objectives for chemical constituents (Basin Plan, page 3-29), color (Basin Plan, page 3-32), exotic vegetation (Basin Plan, page 3-32), floating material (Basin Plan, page 3-33), oil and grease (Basin Plan, page 3-34), dissolved oxygen (Basin Plan, page 3-39), pesticides (Basin Plan, page 3-40), pH (Basin Plan, page 3-40), solid, suspended and settleable material (Basin Plan, page 3-44), taste and odor (Basin Plan, page 3-44), temperature (Basin Plan, page 3-44), toxicity (Basin Plan, page 3-45), and turbidity (Basin Plan, page 3-46).

“The Permittee must, at all times, fully comply with engineering plans, specifications, and technical reports...”

Authorization under this Order is granted based on the application information submitted, including engineering plans, specifications, and technical reports. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Administrative

“Signatory requirements for all document submittals...”

Conditions related to signatory requirements are also authorized by Water Code sections 13383 and 13267, which requires any person discharging waste that could affect the quality of waters to provide to the Water Boards, under penalty of perjury, any technical or monitoring program reports as required by the Water Boards. The signatory requirements are consistent with 40 C.F.R. section 122.22.

“The Permittee shall grant Los Angeles Water Board staff ...”

Conditions related to site access requirements are authorized pursuant to the Water Boards' authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. Water Code section 13267(c) provides that “the regional board may inspect the facilities of any person to ascertain whether the purposes of this division are being met and waste discharge requirements are being complied with.”

“A copy of this Order shall be provided to any consultants, contractors, and subcontractors ...”

“A copy of this Order must be available at the Project site(s) during construction...”

These conditions require site personnel (agents of the applicant) and agencies to be familiar with the content of the Order and mandate availability of the document at the project site. These conditions are required to assure that any authorized discharge will comply with the terms and conditions of the Order and is inherently tied to the signature requirements required by Water Code section 13267.

“Lake or Streambed Alteration Agreement”

This condition is required pursuant to California Code of Regulations section 3856(e), which requires that copies be provided to the Water Boards of “any final and signed federal, state, and local licenses, permits, and agreements (or copies of the draft documents, if not finalized) that will be required for any construction, operation, maintenance, or other actions associated with the activity. If no final or draft document is available, a list of all remaining agency regulatory approvals being sought shall be included.”

Best Management Practices

All the conditions related to best management practices are consistent with the Water Board's authority to establish, “[w]ater quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area” pursuant to Water Code section 13241(c). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. The activities authorized under this Order have the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, Antidegradation Policy and Water Code section 13263. As required by Water Code section 13369, all Water Quality Control Plans incentivize the use of best management practices to prevent prohibited discharges into waters of the state.

Dewatering and/or Stream Diversion

These conditions are required to assure that 1) the discharge shall not adversely affect the beneficial uses of the receiving water or cause a condition of nuisance; 2) the discharge shall comply with all applicable water quality objectives; and 3) treatment and control of the discharge shall be implemented to assure that pollution and nuisance will not occur and the highest water quality is maintained. Accordingly, these conditions require implementation of best practicable treatments and controls to prevent pollution and nuisance, and to maintain water quality. If surface waters or ponded waters are not appropriately diverted from areas undergoing grading, construction, excavation, and/or vegetation removal, the waters will be susceptible to erosion and increased sediment loads, contamination and pollution from construction equipment, temperature fluctuations, etc. Dewatered/ diverted areas must also be stabilized prior to a rainfall event to assure that the discharge from the proposed project will comply with water quality objectives established for surface waters. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. Dewatering and stream diversions have the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Site Management

This condition is necessary to prevent violation of state discharge prohibitions that protect water quality objectives. For instance, fuels and lubricants associated with the use of mechanized equipment have the potential to result in toxic discharges to waters of the state in violation of water quality standards, including the floating material and toxicity and floating material water quality objectives (Basin Plan, pages 3-33 & 3-45). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. Failure to appropriately manage site conditions has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, Antidegradation Policy and Water Code section 13263.

Hazardous Materials

These conditions are required pursuant to the Los Angeles Basin Plan (toxicity objective, page 3-40), and the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (SIP), which prohibit the discharge of substances in concentrations toxic to human, plant, animal, or aquatic life. Toxic compounds can impair the beneficial uses of cold freshwater habitat, estuarine habitat, marine habitat, preservation of rare and endangered species, fish migration, fish spawning, warm freshwater habitat, and wildlife habitat. Conditions related to toxic and hazardous materials are necessary to assure that discharges comply with any water quality objectives adopted or approved under sections 13170 or 13245 of the Water Code.

Conditions related to concrete/cement are required pursuant to the Los Angeles Basin Plan, which require discharges to waters do not adversely raise or lower pH levels (Basin Plan, page 3-40). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. The release of hazardous materials has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the

Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Sediment Control and Stabilization/Erosion Control

Conditions related to erosion and sediment control design requirements are required to sustain fluvial geomorphic equilibrium. Improperly designed and installed BMPs result in excess sediment, which impairs surface waters, adversely affect beneficial uses, and results in exceedance of water quality objectives.

Conditions on projects that result in a hydromodification to a water of the state are necessary to assure that the discharge from the proposed project will comply with water quality objectives established for surface waters. Hydromodification is a general term that encompasses effects of projects on the natural hydrologic, geochemical, and physical functions of streams and wetlands that maintain or enhance water quality. Improper project design and installation of any project that results in a hydromodification to a water of the state may trigger bank failure and channel incision which results in excess sediment impacts to downstream beneficial uses. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. Erosion has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Wildlife and Special Status Species

Pursuant to the California Endangered Species Act (Fish & Wildlife Code, sections 2050 et seq.) and federal Endangered Species Act (16 U.S.C. sections 1531 et seq.), the Order does not authorize any act which results in the taking of a threatened, endangered, or candidate species. In the event a Permittee requires authorization from the state or federal authorities, California Code of Regulations, title 23, section 3856(e), requires that copies be provided to the Los Angeles Water Board of "any final and signed federal, state, and local licenses, permits, and agreements (or copies of the draft documents, if not finalized) that will be required for any construction, operation, maintenance, or other actions associated with the activity. If no final or draft document is available, a list of all remaining agency regulatory approvals being sought shall be included."

Stormwater

Conditions related to stormwater management are required to comply with the Los Angeles Region's Basin Plan and the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 20090009-DWQ; NPDES No. CAS000002 as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and any amendments thereto) (General Construction Permit). Post-rain erosion and sedimentation problems can contribute to significant degradation of the waters of the state; therefore, it is necessary to take corrective action to eliminate such discharges to avoid or minimize such degradation. Implementation of control measures and best management practices (BMPs) described in the condition will assure compliance with water quality objectives including floating material, temperature, suspended and settleable material, and turbidity. (Basin Plan, pages 3-33, 3-44, 3-44, 3-46) Water Code section 13264 prohibits any discharge that is not specifically

authorized in this Order. Stormwater has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

On-site Mitigation for Temporary Impacts

Conditions in this section related to restoration and/or mitigation of temporary impacts are required by the Dredge or Fill Procedures, which requires "in all cases where temporary impacts are proposed, a draft restoration plan that outlines design, implementation, assessment, and maintenance for restoring areas of temporary impacts to pre-project conditions." (Dredge or Fill Procedures section IV. A.2(d) & B.4.)

Additional authorities applying to this condition include:

- Clean Water Act Section 401 (a discharge shall comply with water quality standards, which are established in Water Quality Control Plans)
- California Water Code section 13263 (discharges must implement water quality control plans and water quality objectives)
- California Code of Regulations, Title 23, section 3859 (conditions shall be added to ensure compliance with water quality standards and other appropriate requirements)
- 40 CFR 230.10 (a) (no discharge permitted if there is a practicable alternative with less impacts)
- 40 CFR 230.10 (b) (discharges may not cause or contribute to violations of water quality standards)
- 40 CFR 230.10 (c) (discharges may not cause degradation)
- 40 CFR 230.12 (conditions shall be included to minimize adverse effects to aquatic ecosystems)
- 40 CFR 230.70 (minimize effects of discharge through various actions)
- 40 CFR 230.71 (minimize effects of discharge through treatment of or limitations on the material)
- 40 CFR 230.72 (effects of discharge may be controlled by containment areas and other best management practices)
- 40 CFR 230.73 (minimize effects of discharged by controlling dispersion)
- 40 CFR 230.74 (minimize effects through use of appropriate equipment and techniques)
- 40 CFR 230.75 (minimize adverse effects on plant and animal populations)
- 40 CFR 230.76 (minimize adverse effects on human use, including timing of discharge)
- 40 CFR 230.77 (control runoff, maintain desired water quality, consider ecological changes)
- 40 CFR 230.91 (take all appropriate and practicable steps to avoid and minimize adverse impacts to waters of the United States)
- 40 CFR Part 230, Subpart J (sections 230.92 *et seq.*) (compensatory mitigation for losses of aquatic resources)
- The National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) (require identifying alternatives to avoid and minimize effects (40 CFR 1500.2 and California Code of Regulations, Title 144, section 15021))
- Dredge or Fill Procedures section IV. A.2(c) (water quality monitoring plan to monitor compliance with water quality objectives)

- Dredge or Fill Procedures, Subpart H (actions to minimize adverse effects)

Compensatory Mitigation for Permanent Impacts

Conditions related to mitigation requirements are required by the Dredged or Fill Procedures, section IV.A.2.b. In addition, section IV.B.1.a of the Procedures require that the Water Boards will approve a project only after it has been determined that a sequence of actions has been taken to first avoid, then to minimize, and lastly compensate for adverse impacts that cannot be practicably avoided or minimized. (See also State Supplemental Guidelines, section 230.10, restrictions on discharge & Cal. Code of Regs., section 3856(h) (requiring submittal of proposed mitigation and description of steps taken to avoid, minimize, or compensate).) Accordingly, compensatory mitigation may be required for projects that would result in permanent impacts. Conditions regarding compensatory mitigation are necessary to ensure compliance with state and federal anti-degradation policies. Compensatory mitigation conditions are consistent with Executive Order W-59-93 commonly referred to as California's "no net loss" policy for wetlands. Compensatory mitigation requirements are also authorized by Water Code, section 13263, which requires the imposition of requirements that implement water quality control plans, takes into consideration the beneficial uses to be protected, and the need to prevent nuisance.

Additional authorities applying to this condition include:

- Clean Water Act Section 401 (a discharge shall comply with water quality standards, which are established in Water Quality Control Plans)
- California Code of Regulations, Title 23, section 3859 (conditions shall be added to ensure compliance with water quality standards and other appropriate requirements)
- 40 CFR 230.12 (conditions shall be included to minimize adverse effects to aquatic ecosystems)
- 40 CFR 230.70 (minimize effects of discharge through various actions)
- 40 CFR 230.71 (minimize effects of discharge through treatment of or limitations on the material)
- 40 CFR 230.72 (effects of discharge may be controlled by containment areas and other best management practices)
- 40 CFR 230.73 (minimize effects of discharged by controlling dispersion)
- 40 CFR 230.74 (minimize effects through use of appropriate equipment and techniques)
- 40 CFR 230.75 (minimize adverse effects on plant and animal populations)
- 40 CFR 230.76 (minimize adverse effects on human use, including timing of discharge)
- 40 CFR 230.77 (control runoff, maintain desired water quality, consider ecological changes)
- 40 CFR 230.91 (take all appropriate and practicable steps to avoid and minimize adverse impacts to waters of the United States)
- 40 CFR Part 230, Subpart J (sections 230.92 *et seq.*) (compensatory mitigation for losses of aquatic resources)
- The National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) (require identifying alternatives to avoid and minimize effects (40 CFR 1500.2 and California Code of Regulations, Title 144, section 15021))
- Dredge or Fill Procedures section IV. A.2(c) (water quality monitoring plan to monitor compliance with water quality objectives)

- Dredge or Fill Procedures section IV. A.2(d) (restoration plan for temporary impacts).
- Dredge or Fill Procedures, Subpart H (actions to minimize adverse effects)

ATTACHMENT NO. 8
2022 MAINTENANCE METHODOLOGY PILOT PROJECTS

[This page is intentionally left blank]

2022 MAINTENANCE METHODOLOGY PILOT PROJECT FINAL REPORT AND RECOMMENDATIONS

Soft-Bottom Channel Reach 20 (Webber Channel Private Bridge) and Reach 21 (Webber Channel Main Inlet)

Prepared by:

**Los Angeles County Flood Control District
County of Los Angeles Public Works
900 S. Fremont Avenue, Alhambra, CA 91803**



June 2023

[Page Intentionally Left Blank]

TABLE OF CONTENT

1.0 INTRODUCTION

2.0 BACKGROUND

2.1 SBC REACHES

2.2 VEGETATION MAINTENANCE

3.0 PILOT STUDY OBSERVATION

3.1 BIOLOGICAL ASSESSMENT

3.2 MAINTENANCE COST AND DURATION

3.4 WATER QUALITY

4.0 RECOMMENDATION

5.0 NEXT STEP

FIGURES

Figure 1: Sampling Location for SBC Reach 20

Figure 2: Sampling Location for SBC Reach 21

[Page Intentionally Left Blank]

2022 MAINTENANCE METHODOLOGY PILOT PROJECT

At

Soft-Bottom Channel Reach 20 (Webber Channel Private Bridge) and Reach 21 (Webber Channel Main Inlet)

1.0 INTRODUCTION

Los Angeles County Flood Control District (LACFCD) is responsible for providing flood protection to County residents through the maintenance of its network of flood control channels. On an annual basis, channel capacity is maintained by clearing vegetation and debris within the flood control channels to reduce the risk of loss of life and/or property damages from flooding during large storm events. All soft-bottom channel (SBC) clearing activities are typically started after the bird-nesting season from September 1 through March 15 and are performed in accordance with all applicable environmental/regulatory permits. If work is needed during the bird nesting season, a qualified biologist conducts nesting bird surveys prior to the start of any maintenance activities.

During the 2017 SBC clearing, in cooperation with stakeholders and regulatory agencies, LACFCD volunteered to conduct a Maintenance Methodology Pilot Project (MMPP) at Soft-Bottom Channel (SBC) Reaches 20 (Webber Channel Private Bridge) and 21 (Webber Channel Main Inlet). Past vegetation maintenance methodology for these two SBC reaches were altered as part of the MMPP. The intent was to investigate whether an alternative vegetation maintenance method can be used that will minimize impact on channel vegetation and associated habitat while maintaining the existing channel capacity. Leaving additional vegetation within these SBC reaches requires further approval from all regulatory agencies, especially the U. S. Army Corps of Engineers (USACE).

This MMPP was completed last year in the 2021-22 maintenance season. In this final report, LACFCD will discuss its observation of the 5-year MMPP and provide its maintenance recommendation whether to go back to the previous SBC reaches maintenance methodologies or implement the maintenance methodology used for the 5-year MMPP. LACFCD will continue to implement the MMPP for Reaches 20 and 21 until a proper flow capacity analysis is performed and reviewed.

2.0 BACKGROUND

2.1 SBC REACHES

SBC Reaches 20 and 21 are located within the Los Angeles River (LAR) watershed.

Webber Channel is in the Angeles National Forest and discharges into the Verdugo Wash. Two soft-bottom sections of the channel are being investigated in this MMPP. Reach 20 is a stream at a private bridge that is about 115 feet in length and 25 feet in width (0.13 acres). Reach 20 spans from 861 feet upstream of Los Amigos Street to 746 feet upstream of Los Amigos Street (see Figure 1). Reach 21 is a stream that is 25 feet in length and 25 feet in width (0.03 acres). It serves as the main channel inlet downstream of the private bridge. Reach 21 spans from 496 feet upstream of Los Amigos Street to 471 feet upstream of Los Amigos Street (see Figure 2).

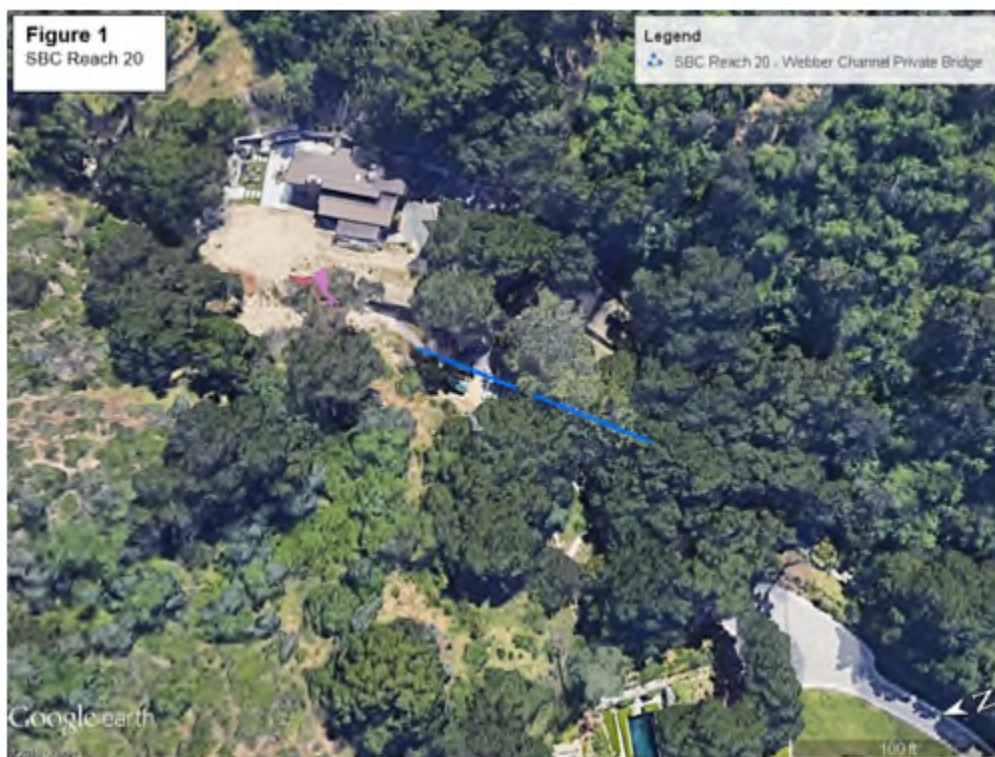


Figure 1: SBC Reach 20 – Webber Channel Private Bridge



Figure 2: SBC Reach 21 - Webber Channel Main Inlet

2.2 VEGETATION MAINTENANCE

2.2.1 PAST VEGETATION MAINTENANCE

SBC Reach 20 was permitted to be cleared of all vegetation with the use of mechanical equipment. Native shrubs were permitted to grow on the right bank, and nonnative species were selectively removed. Oaks and other additional trees were not allowed to grow on the banks.

SBC Reach 21 was also permitted to be cleared of all vegetation with the use of mechanical equipment. Native shrubs were permitted to grow on the left bank, and nonnative species will be selectively removed. Native herbaceous and shrub species were allowed to grow on the left bank looking downstream underneath the coast live oak woodland. Invasive ground cover species (i.e., ivy) were selectively removed from the left bank. Additional oaks or other trees were not allowed to grow on the banks.

All cuttings generated from the removal of the invasive vegetation from Reaches 20 and 21 were placed in tarps to ensure seedlings or cuttings were properly contained and transported to an approved off-site disposal/landfill facility.

As part of LACFCD's standard practice for SBC clearing activities at these two non-sensitive channels reaches, a qualified biologist was on site or consulted prior to start of work to ensure proper removal of vegetation. Water Quality (WQ) was monitored in accordance with the Waste Discharge Requirements (WDR), Order No. 22 and Best Management Practices (BMPs) were implemented accordingly per WDR, Order No. 15. All the removed vegetation and incidental sediment were placed in dump trucks and properly transported to an approved off-site disposal/landfill facility.

2.2.2 MMPP VEGETATION MAINTENANCE

Prior to the implementation of the MMPP, SBC Reach 20 was permitted to remove all vegetation from the channel by mechanical means while SBC Reach 21 was allowed to remove all vegetation by hand.

During the 2017 to 2022 implementation of the MMPP, with guidance from a qualified biologist, Reach 20 was maintained with the use of hand-held equipment. Non-native vegetation was selectively removed, and native vegetation/shrubs were allowed to grow in the invert and on the channel banks. No additional oaks or other trees were allowed to grow on the banks/invert. Trash, debris, and invasive vegetation were removed by hand within the easement boundaries. A similar maintenance methodology was used for the maintenance of SBC Reach 21. Hand-held equipment was used to selectively remove non-native vegetation from this reach. Under the guidance of the qualified biologist, native herbaceous plants and shrub species were allowed to grow on the left bank looking downstream underneath the coast live oak woodland. Non-native species, including groundcover species such as ivy, were selectively removed from the left bank. Additional trees were not allowed to grow on the banks. Trash, debris, and non-native vegetation were removed by hand within the easement boundaries.

The hand tools used for the MMPP maintenance operation are shown in Attachment A. All cuttings generated from the removal of the invasive vegetation from Reaches 20 and 21 were placed in tarps to ensure seedlings or cuttings were properly contained and transported to an approved off-site disposal/landfill facility using stake bed dump trucks.

A qualified biologist was on site or consulted prior to mowing and to ensure proper removal of invasive vegetation. WQ was monitored and BMPs were implemented accordingly. Invasive vegetation and sediment were placed in dump trucks and properly transported to an approved disposal/landfill facility.

3.0 PILOT STUDY OBSERVATION

3.1 BIOLOGICAL ASSESSMENT

During the 5-year implementation of the MMPP, it has been observed that SBC Reaches 20 and 21 have had an expected increase in native dominated vegetation. Because of this increase, wildlife species utilizing SBC reaches 20 and 21 are expected to change. This change in maintenance methodology may result in increased use of the additional vegetation by wildlife species already present in the area.

With the implementation of the MMPP's modified maintenance methods at the two reaches, the biological conditions of the site have improved to a small degree. In time, this is expected to result in growth and persistence of higher quality understory vegetation to the oak woodlands that overshadow these two SBC reaches. Although herbaceous species expected to colonize these areas can grow quickly in some conditions, the shading and non-native seed bank for these two reaches are expected to slow this type of growth.

The shifting of the plant and wildlife composition of these reaches may continue over the course of many years but is eventually expected to stabilize if the pilot study's modified maintenance method was implemented on a permanent basis (provided the new growth does not impact flow and capacity of the reaches).

3.2 MAINTENANCE COST AND DURATION

During the 5-year MMPP for SBC Reaches 20 and 21, there was no detectable change in time or equipment used for the pilot methodology since the vegetation clearance work for these reaches are by hand only. During the methodology comparison, LACFCD has the following general observations and comments:

- 1) There was no detectable change in the maintenance duration for both reaches
- 2) There was a slight overall increase in the maintenance total cost as a result to the implementation of the MMPP's maintenance method for both reaches. The maintenance cost has been increasing due the use of in-house forces instead of contractors, and higher rental equipment, water, and disposal rates

3.3 WATER QUALITY

During the 5-Year MMPP, there were no discernible water quality changes that resulted from switching the maintenance methodology. Most effluent limit exceedances that were observed during the pilot study were related to: (1) presence of stagnant nutrient-rich ponded water due to the lack of constant water

flow resulted in the increase in the turbidity detected in the WQ results when water sampling was performed; (2) additional inflow of water between upstream and midpoint locations; (3) bird feeding activities in close proximity to the sampling points; (4) natural variance in the reaches

4.0 RECOMMENDATION

LACFCD would like to hold its maintenance recommendation until proper flow capacity analysis can be performed for SBC Reaches 20 and 21. The analysis is needed to ensure that allowing more vegetation to remain in the reaches will not make the facilities inadequate when it comes to providing flood protection for the surrounding communities in the areas.

5.0 NEXT STEP

LACFCD will continue to implement the MMPP for Reaches 20 and 21 until a proper flow capacity analysis is performed and reviewed. At which time, LACFCD will provide its maintenance recommendation to the Regional Board.