

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):

The operator shall not impact the 0.27 acre of Vegetation
allowed to remain in 1997. All removal shall be done by
hand operated tools.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 78, 79; Riparian herb and ruderal vegetation in area
maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mork Date: August 21, 2013

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 70, 71; 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: Steven G. Mork Date: December 6, 2013

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. Hard 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/Aquatic Resources Survey

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 104, 105, 106, 107; Riparian herb and ruderal vegetation in
area maintained; Variety of ornamental vegetation present, most
not a problem, but some ground covers are invasive. Arundo
observed.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Stan G. Moul Date: August 22, 2013

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 62, 63, 64; 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):

Arundo ^{still} present after clearing activities. Recommend
follow-up visit to spray and kill the arundo after
initial clearing activities

Name of Biological Monitor: Stan G. Moul Date: December 6, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
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Biological Resources Monitoring Form

Reach Number: 3

Special Permit Conditions (list):

Hand clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 74, 75; Ruderal Vegetation dominates the area and is maintained. Invasives not a problem but a few small Castor Bean observed.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Stam G. Mord Date: August 21, 2013

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 116, 117; Eucalyptus and Coast Wine Palms.

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: Stam G. Mord Date: December 24, 2013

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/Aquatic Resources Survey

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 76, 77: Riparian herb including willows less than one year old and ruderal vegetation, invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Morik Date: August 21, 2013

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 118, 119: mix of ornamental and native trees outside of the channel. Invasives not a problem.

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: Steven G. Morik Date: December 24, 2013

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 by 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/Aquatic Resources Survey

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 54, 55, 56; Riparian herb and subcanopy vegetation in area maintained; debris not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steve G. Moulton Date: August 22, 2013

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 72, 73, 74; Willow riparian.

Compliance with Permit Conditions: Full [checked] 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 G. Moulton Date: December 6, 2013

County of Los Angeles Department of Public Works
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Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 6

Special Permit Conditions (list):

Hand clearing only. Exotics shall be removed during maintenance activities. Vegetation allowed to remain in 1987 shall not be disrupted by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 57, 58; 12' garden herb, willow branches, and ruderal vegetation in area maintained; dandelion not a problem.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Mott Date: August 21, 2013

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 75, 76; willow, coast live oak, 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: Steven G. Mott Date: December 6, 2013

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Biological Resources Monitoring Form

Reach Number: 7

Special Permit Conditions (list):

The ACOE Bull Creek restoration activities that began in 2008
changed conditions at this reach and no clearing work has been
performed since that time.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 66; Slopes of reach now rip-rap with some willow
and mullet and brush vegetation - channel bottom has
water and essentially unvegetated.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Kevin G. Mowbray Date: August 21, 2013

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 106; NO WORK DONE.

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):

Maintenance activities expected to occur in future, but
maintenance plan language needs to be revised for new
circumstances of this reach.

Name of Biological Monitor: Kevin G. Mowbray Date: December 24, 2013

County of Los Angeles Department of Public Works
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Biological Resources Monitoring Form

Reach Number: 8

Special Permit Conditions (list):

Hard clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 59,60; Riparian herb and ruderal vegetation in area maintained; Invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Moul Date: August 21, 2013

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 107,108; No vegetation allowed to remain in the channel - 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: Steven G. Moul Date: December 24, 2013

County of Los Angeles Department of Public Works
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Biological Resources Monitoring Form

Reach Number: 9

Special Permit Conditions (list):
Hand clearing only, impacts shall not exceed 0.12 acres

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 67, 68; Some riparian vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mott Date: August 21, 2013

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 109, 110; 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: Steven G. Mott Date: December 24, 2013

County of Los Angeles Department of Public Works
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Biological Resources Monitoring Form

Reach Number: 10

Special Permit Conditions (list):

No work done in 1997. Operator shall not impact the 2.11 acres of vegetation allowed to remain in 1997. (It was left alone due to a toxic spill.)

Observation of Special Status Species: Least Bell's Vireo, Yellow Warbler.

Pre-Clearing Documentation/Aquatic Resources Survey

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 61, 62, 63, 64, 65; Riparian shrubland and forest vegetation in area maintained; Washington Palm growing in rip-rap as well as some ornamental trees.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Stann G. Moul Date: August 21, 2013

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 102, 103, 104, 105; all vegetation removed (there is no protected vegetation in this reach, such as old 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):

I recommend to continue to clear both sides of channel as has been done in recent years.

Name of Biological Monitor: Stann G. Moul Date: December 24, 2013

County of Los Angeles Department of Public Works
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Biological Resources Monitoring Form

Reach Number: 12

Special Permit Conditions (list):

Hand clearing only. Special permit conditions issued on 12/19/03 apply to this reach (Santa Ana sucker).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; tree-of-heaven present.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Brian Daniels Date: Sept. 6, 2013

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

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: Brian Daniels Date: Nov. 25, 2013

County of Los Angeles Department of Public Works
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Biological Resources Monitoring Form

Reach Number: 13

Special Permit Conditions (list):

No special permit conditions pertain to this reach. (Note: This reach is labelled as Santa Ana Switer despite annual fish survey results that find no potential habitat.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 119, 120; Primarily riparian vegetation in area maintained, but riparian herb at outlet; Invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Kevin G. Moore Date: August 23, 2013

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 94, 95; Alluvial Sage scrub 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: Kevin G. Moore Date: December 23, 2013

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):

Operator shall not impact the 0.5 acre of vegetation allowed to remain in 1997. (This reach has supported least Bell's vireo activity including nesting birds since 2005.)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; one-year old willows and ruderal vegetation in area maintained; tree-of-heaven mixed in with protected vegetation.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Sept 6, 2013

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, mule fat, cottonwood (1), and ornamental 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: Brian Daniels Date: Nov. 25, 2013

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 vegetation allowed to remain in 1997.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 69, 70, 71, 72, 73; Riparian herb and ruderal vegetation in area maintained; dunnies not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Moul Date: August 21, 2013

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 111, 112, 113, 114, 115; No vegetation allowed to remain in channel except small patch (0.01 acre) at downstream terminus 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):

Recommend alternating removal of downstream patch so that it doesn't become stagnant with trash and dunnies similar to previous protected patch.

Name of Biological Monitor: Steven G. Moul Date: December 24, 2013

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/Aquatic Resources Survey

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 121, 122; Ruderal vegetation in area maintained;
Invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mott Date: August 23, 2013

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 77, 78; 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: Steven G. Mott Date: December 23, 2013

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):

Hard clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 126, 127, 128; Ruderal Vegetation and an oak branch in area maintained; Tree-of-Heaven on right bank W/S of entrance bridge to Camp Mex Grant.

Aquatic Resources Survey; N/A to this reach.

Name of Biological Monitor: Stam G. Morris Date: August 23, 2013

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 82, 83, 84; 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: Stam G. Morris Date: December 23, 2013

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. (Note: Current ACOE Permit dated Sept. 30, 2012)
Continues to include this reach on list for Least Bell's Vireo
and Santa Ana Sucker despite experts determining no potential for either species.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 129, 130; Sparsely vegetated in area maintained; invasives
not a problem.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Morth Date: August 23, 2013

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 92-93; Ornamental vegetation and some chaparral and/or
abundant sage scrub 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: Steven G. Morth Date: December 23, 2013

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):

Imports shall not exceed 0.13 acre (115 FT. linear by 50 FT. wide)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 137, 138; sparse ruderal vegetation in area maintained;
Invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Moulton Date: August 23, 2013

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 87, 88; 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: Steven G. Moulton Date: December 23, 2013

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. Impacts shall not exceed 0.03 acre.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 135, 136; Sparse growth of ruderal vegetation in area maintained; Castor Bean present.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Mowbray Date: August 23, 2013

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 85, 86; 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: Steven G. Mowbray Date: December 23, 2013

County of Los Angeles Department of Public Works
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Biological Resources Monitoring Form

Reach Number: 22

Special Permit Conditions (list):

Hand Clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 131, 132, 133, 134. Sparse growth of ruderal vegetation in area maintained; Invasives not a problem but small Castor Bean present.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Ken G. Moore Date: August 23, 2013

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 89, 90, 91. Mix of ornamental vegetation from adjacent homes with some Sycamore, and Oaks.

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: Ken G. Moore Date: December 23, 2013

County of Los Angeles Department of Public Works
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Reach Number: 24

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the
general terms and conditions of the permit apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 11, 12, 13, 14, 15; Riparian herb and ruderal vegetation in area
maintained; Castor Bean and Arundo present in upstream
portion of reach.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Stam G. Moore Date: August 14, 2013

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 126, 127, 128, 129, 130; Some reed beds in middle of low-
flow channel throughout the 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):

Some Arundo present at upstream portion of reach and Castor
Bean at both the upstream and downstream portions of reach.

Name of Biological Monitor: Stam G. Moore Date: December 27, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 25

Special Permit Conditions (list):

Operator shall not impact the 9.37 acres of vegetation allowed to remain in 1997. (Note: The ACOE removed much of this vegetation in 2000).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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); Minimal reed growth in area maintained; increasing numbers of Castor Bean and Arundo.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Morris Date: August 14, 2013

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 131, 132, 133, 134, 135 (East Bank) & 136, 137, 138, 139, 140 (West Bank); Some reed beds near edge of west bank and large willows on east bank, 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):

Some Castor Bean and Arundo scattered throughout reach.

Name of Biological Monitor: Steven G. Morris Date: December 30, 2013

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Biological Resources Monitoring Form

Reach Number: 26

Special Permit Conditions (list):

Hard clearing only.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 48, 49, 50, 51, 52, 53; Ruderal alvarian herb and ornamental vegetation in area maintained; Castor Bean present.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Mow Date: August 15, 2013

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 120, 121, 122, 123, 124, 125; Willows and ornamental trees (mostly 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):

Castor Bean present at downstream section of reach.

Name of Biological Monitor: Steven G. Mow Date: December 24, 2013

County of Los Angeles Department of Public Works
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Biological Resources Monitoring Form

Reach Number: 27

Special Permit Conditions (list):

Special permit conditions issued on 9/30/10 for least Bell's vireo apply to this reach. (least Bell's vireo present in 2007, 2011, and 2013 - solitary male all three years.)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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: Proposition 0 project construction ongoing at this time - all vegetation on invert plus non-natives on channel banks being removed.

Aquatic Resources Survey: N/A at this time.

Name of Biological Monitor: Brian Daniels Date: Sept. 6, 2013

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.

NO WORK - proposition 0 project construction ongoing.

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: Brian Daniels Date: Nov. 25, 2013

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/Aquatic Resources Survey

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 97, 98, 99; Primarily riparian vegetation in area maintained,
but some riparian herb under bridge; duckweed not a
problem.

New Zealand mudsnail not detected in this reach but other aquatic
invasive species present such as bull frog, crayfish, and common carp.

Name of Biological Monitor: Steven G. Mott Date: August 22, 2013

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 47, 48, 49; 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: Steven G. Mott Date: December 4, 2013

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/Aquatic Resources Survey

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 80, 81, 82; Riparian herb and ruderal vegetation in area maintained; invasives not a problem.

New Zealand mudsnail not detected in this reach; no other aquatic invasive species detected during survey.

Name of Biological Monitor: Steven G. Mott Date: August 22, 2013

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 59, 60, 61; Willows and grassland/ruderal 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: Steven G. Mott Date: December 6, 2013

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 was allowed to remain in 1997.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 100, 101, 102, 103; Riparian herb and ruderal vegetation maintained. Upper end of reach dominated by cattails; drainage not a problem.

New Zealand mudsnail not detected in this reach; no other aquatic invasive species detected during survey.

Name of Biological Monitor: Steven G. Mow Date: August 22, 2013

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 50, 51, 52, 53; Chaparral, oak, 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: Steven G. Mow Date: December 4, 2013

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):

Operator shall avoid vegetation clearing due to sensitive resources. If any vegetation needs to be cleared during future maintenance activities, the operator shall provide additional mitigation for these impacts.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 88, 89, 90; Willow riparian forest and freshwater marsh habitat in area where no clearing activities have been performed due to permit restrictions.

New Zealand mud snail not detected in this reach but other aquatic invasive species present including the crayfish.

Name of Biological Monitor: Steven G. Mark Date: August 22, 2013

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 38, 39, 40; NO WORK DONE.

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: Steven G. Mark Date: December 4, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 34

Special Permit Conditions (list):

Hand Clearing only. Impacts shall not exceed 0.19 acres.
No native trees with a DBH of 2 inches or greater shall be
removed.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 85, 86, 87; Riparian herb and ruderal vegetation in
area maintained; Invasives not a problem.

New Zealand mudsnail not detected in this reach but other aquatic
invasive species present such as crayfish and sunfish spp.

Name of Biological Monitor: Steven G. Morris Date: August 22, 2013

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 56, 57, 58; 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: Steven G. Morris Date: December 4, 2013

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. Imports shall not exceed 0.14 acres.
No native trees with a DBH of 2 inches or greater shall be
removed. (NOTE: The bridge construction in 2006 removed much of the
vegetation from this reach.

Observation of Special Status Species: none observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 91, 92; Riparian herb and ruderal vegetation in area
maintained; invasives not a problem.

New Zealand mudsnail not detected in this reach but other
aquatic invasive species present including crayfish.

Name of Biological Monitor: Steven G. Moul Date: August 22, 2013

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 45, 46; Few shrubs and small trees (olive & 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: Steven G. Moul Date: December 4, 2013

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 allowed to remain in 1997.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 83,84; Primarily unvegetated in area maintained, but there are a few hanging willow branches; invasives not a problem.

New Zealand mudsnail not detected in this reach; ^{no} other aquatic invasive species detected during the survey.

Name of Biological Monitor: Steven G. Mork Date: August 22, 2013

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 54,55; 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: Steven G. Mork Date: December 4, 2013

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/Aquatic Resources Survey

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 93, 94; Riparian herb and ruderal vegetation in area maintained; invasives not a problem.

New Zealand mudsnail not detected in this reach but other aquatic invasive species present including crayfish.

Name of Biological Monitor: Steven G. Mark Date: August 22, 2013

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 43, 44; 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: Steven G. Mark Date: December 4, 2013

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. Stumps 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/Aquatic Resources Survey

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 95, 96; Riparian herb dominated by cattails in area
maintained; Invasives not a problem.

New Zealand mudsnail not detected in this reach but other
aquatic invasive species present including crayfish.

Name of Biological Monitor: Steven G. Mott Date: August 22, 2013

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 41, 42; Willows 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: Steven G. Mott Date: December 4, 2013

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 issued on 9/30/10 for Santa Ana sucker and least Bell's vireo apply to this reach. (Sucker not yet found but vireo present since 2005 surveys.)

Observation of Special Status Species: Least Bell's vireo present and singing on this date (Aug 26).

Pre-Clearing Documentation/Aquatic Resources Survey

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, cattails, and ruderal vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 26, 2013

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; mule fat, willows, elderberries, + some alluvial sage scrub 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: Brian Daniels Date: Nov. 25, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 40a

Special Permit Conditions (list):

Santa Fe Dam to I-10 Fwy: hand + mechanical clearing 10 Ft. from
top of levee; 75 Ft. wide area cleared on alternate (every
other) years.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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: two-year old vegetation consisting of
mule fat, alluvial sage scrub, ruderal and ornamentals
in area maintained; ornamentals spreading slowly - some
eucalyptus large.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 29, 2013

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; one-year old mule fat (old root system)
dominates the reach, but some mature willows also
present; ornamental 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: Brian Daniels Date: December 23, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 406

Special Permit Conditions (list):

I-10 Fwy to Thienes Ave.: protect vegetation allowed to remain in 1997/98. Special permit conditions issued on 12/22/03 apply to this reach (least Bolis vine).

Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 6, 7, 8; ruderal vegetation dominates areas maintained, but also some young willows (5 yr. old) present in those areas; castor bean, few arundo, and a few ornamental trees.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 29, 2013

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 mule fat; noneless still absent since they were evicted prior to clearing activities.

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: Brian Daniels Date: Dec. 23, 2013

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 permit conditions pertain to this reach.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 139, 140, 141; Riparian herb and several vegetation in area maintained. Castor Bean present.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mault Date: August 23, 2013

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 35, 36, 37; 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: Steven G. Mault Date: 12/2/2013

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/Aquatic Resources Survey

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 142, 143, 144; Riparian herb and ruderal Vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Moore Date: August 23, 2013

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 32, 33, 34; 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: Steven G. Moore Date: December 2, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 43

Special Permit Conditions (list):

Maintenance shall not go beyond areas cleared in 1997; vegetation allowed to remain in 1997/98 shall not be impacted by future maintenance activities. Special permit conditions issued on 9/30/10 for least Bell's vireo apply to this reach.
Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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, 12, 13, 14, 15, 16; mostly ruderal vegetation in areas maintained, but also some young willows (5-1 yr. old); arundo present.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 29, 2013

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, 7, 8; willows, mule fat, few cottonwoods, and ornamental trees & shrubs; arundo 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: Brian Daniels Date: Dec 23, 2013

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 1997/98. Vegetation allowed to remain in 1997/98 shall not be impacted by future maintenance activities

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29; mostly riparian vegetation in area maintained but also some young willows (5 yr. old), riparian herb, and cattails; castor bean and some arundo.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 29, 2013

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, 7, 8, 9, 10, 11, 12, 13; willows, milk fat, some ornamental trees + 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: Brian Daniels Date: Dec. 23, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 45

Special Permit Conditions (list):

Impacts shall not exceed 0.05 acre. No native trees with a 2 inch or greater DBH shall be removed. (Note that this reach does not have potential habitat for least Bell's vireo or Santa Ana sucker and should not be included as such on ACOE Sept. 30, 2010 permit.)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; one coast live oak, sage scrub 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: Brian Daniels Date: Nov. 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 46

Special Permit Conditions (list):

Impacts shall not exceed 0.06 acre. No native trees with a 2 inch or greater DBH shall be removed.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; cattails and some ruderal vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; cattails, Washingtonia palm, pine tree.

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: Brian Daniels Date: Nov. 20, 2013

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 extend more than 20 ft. beyond toe of levee.
Special permit conditions issued on 12/9/05 apply to this
reach.

Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; sparse growth of riparian vegetation in areas
maintained except for outlets where some young riparian
growth has occurred; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; sparse alluvial sage scrub with scattered
wilows + 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: Brian Daniels Date: Nov. 20, 2013

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 apply to this reach.

Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 and ruderal vegetation in areas maintained; some arundo present.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 23, 2013

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; mostly ornamental trees and shrubs in backyards bordering channel, but also a few native willows + milk fat mixed in on channel 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: Brian Daniels Date: Nov. 20, 2013

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/Aquatic Resources Survey

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; primarily unvegetated in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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 1, 2; unwegetated except for very ornamental (oleander) shrub.

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: Brian Daniels Date: Nov. 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 50

Special Permit Conditions (list):

No special permit conditions pertain to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 growth of riparian vegetation in areas maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; unvegetated except for some pines at top of left 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: Brian Daniels Date: Nov. 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 51

Special Permit Conditions (list):

Clearing shall not extend more than 20ft. beyond toe of levee. Special permit conditions issued on 12/9/03 pertain to this reach (stickleback).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 growth of riparian vegetation in areas maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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

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: Brian Daniels Date: Nov 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 52

Special Permit Conditions (list):

Hand clearing only. Impacts shall not exceed 0.04 acre.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 1; ruderal vegetation in area maintained; Invasives not a problem.

Aquatic Resources Survey: N/A to this reach

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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 1: unvegetated 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: Brian Daniels Date: Nov. 20, 2013

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 apply to this reach

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; ruderal vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 23, 2013

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; unvegetated

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: Brian Daniels Date: Nov. 20, 2013

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 issued on 12/9/03 apply to this reach (strikeback).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; Federal vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 23, 2013

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; Great Basin sagebrush, mule fat, cottonwoods, 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: Brian Daniels Date: Nov. 20, 2013

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 more than 20ft. beyond toe of levee. Special permit conditions issued on 12/9/03 apply to this reach (strikeback)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 growth of ruderal vegetation in area maintained (primarily limited to outlets); invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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.

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: Brian Daniels Date: Nov 20, 2013

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 20 ft. beyond toe of levee. Special permit conditions issued on 12/9/03 apply to this reach (stickleback).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 unvegetated but some willows, mule fat and alluvial sage scrub vegetation at toe of rip

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; willows, mule fat and cactus at toe of levee; alluvial sage scrub in center of channel adjacent to 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: Brian Daniels Date: Nov. 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 57

Special Permit Conditions (list):

Vegetation allowed to remain in 1997/98 shall not be impacted by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 growth of ruderal vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; mule fat, few cottonwoods, ornamentals on left 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: Brian Daniels Date: Nov. 20, 2013

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 extend more than 20 ft. beyond toe of levee.
Special permit conditions issued on 12/9/03 apply to this
reach (stickleback).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 growth of ruderal vegetation in area
maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; sparse alluvial zone scrub 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: Brian Daniels Date: Nov 20, 2013

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 59

Special Permit Conditions (list):

Clearing shall not extend more than 20ft. beyond toe of levee. Special permit conditions issued on 12/9/03 apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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 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: Brian Daniels Date: _____

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 extend more than 20ft. beyond toe of levee. Special permit conditions issued on 12/9/03 apply to this reach (stickleback).

Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; w. flows at d/s 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: Brian Daniels Date: Nov 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 61

Special Permit Conditions (list):

Clearing shall not extend more than 20 ft. beyond toe of levee. Special permit conditions issued on 12/9/05 apply to this reach (stickleback).

Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 23, 2013

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.

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: Brian Daniels Date: Nov. 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 62

Special Permit Conditions (list):

Clearing shall not extend more than 20ft. beyond toe of levee.
Special permit conditions issued on 12/9/03 apply to this
reach (strikeback).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 unvegetated in area maintained;
invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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 and 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: Brian Daniels Date: Nov: 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 63

Special Permit Conditions (list):

Impacts shall not exceed 0.85 acre.

Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 growth of ruderal vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 23, 2013

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 1, 2; sparse 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: Brian Daniels Date: Nov. 20, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 64

Special Permit Conditions (list):

Impacts shall not exceed 0.10 acre.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 growth of ruderal vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; cottonwood, mule fat, ornamental 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: Brian Daniels Date: Nov. 20, 2013

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 extend more than 20 ft. beyond toe of levee. Special permit conditions issued on 12/9/03 apply to this reach (stickleback).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 unvegetated in area maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 28, 2013

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; mule fat and 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: Brian Daniels Date: Nov. 20, 2013

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):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Special permit conditions issued on 12/9/03 for stickleback apply (stickleback present in 2005-2007)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; no clearing in 2012 due to presence of stickleback in Reach 69 so two and three yr. old growth of riparian and ruderal vegetation in area maintained; some tamarisk.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; two yr. old riparian and ruderal vegetation of left half of the 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):

Obtain incidental take permit for stickleback that has similar terms and conditions that are included in the Biological Opinion dated Oct. 21, 2004, for the Santa Clara River Reaches 71 and 82. This take permit should be part of the long-term permit for soft-bottom channels.

Name of Biological Monitor: Brian Daniels Date: Dec. 24, 2013

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):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Special permit conditions issued on 12/9/03 for stickleback apply. (Stickleback present 2005-07 & again 2012.)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; no clearing in 2012 due to stickleback presence, so two + three yr. old growth of riparian and ruderal vegetation in area maintained; some tamarisk.

Aquatic Resources Survey; N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; two yr. old riparian and ruderal vegetation on left side (facing downstream) of the 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):

Obtain incidental take permit for stickleback that has similar terms and conditions that are included in the Biological Opinion dated Oct. 21, 2004, for Santa Clara River Reaches 71 and 82. This take permit should be part of the long-term permit for soft-bottom channels

Name of Biological Monitor: Brian Daniels Date: Dec. 24, 2013

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):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Special permit conditions issued on 12/9/03 apply to this reach (stickleback).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; mostly unvegetated wash but some riparian vegetation in areas maintained; invasives not a problem.

Aquatic Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; mostly unvegetated but some alluvial sage scrub vegetation at U/S 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: Brian Daniels Date: Dec. 24, 2013

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 more than 20ft. beyond toe of levee. Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Terms and conditions of Oct. 21, 2004 Bio Opnies (arrow toad and strikeback) apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 unvegetated in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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.

NO WORK DONE. The reach affected by McBean Pkwy bridge widening project.

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: Brian Daniels Date: Dec. 24, 2013

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 apply to this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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, young willows (5 yr. old) and riparian vegetation in area maintained; invasives not a problem.

Aquatic Resources Survey; N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; 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: Brian Daniels Date: Dec. 24, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 73

Special Permit Conditions (list):

Impacts shall not exceed 0.05 acre

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 unvegetated in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; unvegetated.

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: Brian Daniels Date: Dec. 24, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 74

Special Permit Conditions (list):

Impacts shall not exceed 0.02 acre.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; coast live oaks and ornamentals. Note that one coast live oak removed by local entity and not the county.

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: Brian Daniels Date: Dec. 24, 2013

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 V. Wage Drive)

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 in this upper section of Reach 75.)

Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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, cattails, young willows (5 yr old), andederal vegetation in areas maintained; invasives not a problem.

Biological Resources Survey: NA to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; no vegetation allowed to remain in this section of the channel 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: Brian Daniels Date: Dec. 24, 2013

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 75 (Orchard Village Drive to Magic Mtn. Pkwy)

Special Permit Conditions (list):

The vegetation (15.37 acres) allowed to remain in 1997 shall not be impacted by future maintenance activities. (The protected 15.37 acres of vegetation is in this lower section of Reach 75.)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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, 7, 8, 9; ruderal vegetation in areas maintained, but mostly unvegetated; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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, 7, 8, 9; mule fat, willows, cottonwoods, Great Basin sagebrush, and alluvial sage scrub 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: Brian Daniels Date: Dec 24, 2013

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 apply to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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 41, 42, 43; Sparse growth of riparian vegetation in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Muth Date: August 15, 2013

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 25, 26, 27; 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: Steven G. Muth Date: November 26, 2013

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. (Note: This reach has no potential
for bent Ball's Vireo and/or Santa Ana Sucker and should not be included as such
on ACOE SEPT. 30, 2013 permit),
Observation of Special Status Species: none observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 44, 45; Primarily un-vegetated in area maintained, but a few
invasive species are present; drainages not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mow Date: August 15, 2013

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 28, 29; Some alluvial sage scrub vegetation at downstream
end of reach (at confluence with Pleasant Creek - 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: Steven G. Mow Date: November 26, 2013

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):

Vegetation (0.89 acre) allowed to remain in 1997, shall not be impacted by future maintenance activities. (Note: This reach has no potential for Least Bell's Vireo and/or Santa Ana Sucker and should not be included as such on ACOE Sept. 30, 2013 permit).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 46, 47; Primarily unvegetated in area maintained, but a few ruderal species are present; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mork Date: August 15, 2013

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 30, 31; alluvial sage scrub 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: Steven G. Mork Date: November 26, 2013

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 in 1997 shall not be impacted by future maintenance activities. Special permit conditions issued on 12/9/03 apply to this reach (stickleback).

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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, cattails, young willows (5-1 yr old) in areas maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; mule fat and 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: Brian Daniels Date: Dec. 24, 2013

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):

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 issued on 12/9/03 apply to this reach (stickleball)

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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, 7; mostly unvegetated in areas maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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, 7; Great Basin sagebrush, mole flat, willows, 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: Brian Daniels Date: Dec. 24, 2013

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 20ft. beyond toe of levee.
Vegetation allowed to remain in 1997 shall not be impacted by
future maintenance activities. Terms + conditions of Oct. 21, 2004
Biological Opinion (Arroyo toad + stickeback) apply to this reach.
Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; Riparian herbs with cattails at side outlet,
but mostly ruderal vegetation (sparse) in areas maintained;
invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 22, 2013

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; willows, cottonwoods, milk fat, and
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: Brian Daniels Date: Dec. 24, 2013

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 disrupted by future maintenance activities. Special permits apply conditions issued on 12/02/03 apply to this reach (Stiddleback).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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, 18; Sparse growth of ruderal vegetation in low-flow channel; Invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mott Date: August 15, 2013

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 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: Steven G. Mott Date: November 26, 2013

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 (STDeBack permit in 2005, but none since).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 22, 23; Riparian herb and ruderal vegetation in area maintained; Invasives not a problem.

Biological Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Mohr Date: August 15, 2013

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; 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: Steven G. Mohr Date: November 26, 2013

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 (1085 linear feet by 17 ft wide).
(Note that this reach has no potential for least Bell's Vireo and/or Santa Ana Sucker and should not be included as such on ACOE Sept. 30, 2013 permit).*

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 39, 40; sparse growth of riparian vegetation in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mark Date: August 15, 2013

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 23, 24; 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: Steven G. Mark Date: November 26, 2013

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. (Note: This reach has no potential for Least Bell's Vireo and/or Santa Ana Sucker and should not be included as such on ACOE Sept. 30, 2013 permit.)

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 35; Sparse growth of ruderal vegetation in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mower Date: August 15, 2013

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 19; Alluvial sageshrub 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: Steven G. Mower Date: November 26, 2013

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 (Q.19 ave) allowed to remain in 1997 shall not be impacted by future maintenance activities.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 36, 37, 38; Sparse growth of ruderal vegetation in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Mork Date: August 15, 2013

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; Alluvial Sage Scrub and/or Duland Sage Scrub, 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: Steven G. Mork Date: November 26, 2013

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 permit apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 31, 32; Sparse growth of riparian vegetation in area maintained; invasives not a problem but some trash starting to collect in this reach.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mark Date: August 15, 2013

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; 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: Steven G. Mark Date: November 26, 2013

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 apply to this reach, but the general conditions and measures of the permits apply. (Note: This reach has no potential for least Bell's Vireo and/or Santa Ana Sucker and should not be included as such on ACOE Sept. 30, 2013 permit).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 33, 34; sparse growth of ruderal vegetation in area maintained; Invasives not a problem.

Name of Biological Monitor: Steven G. Mork Date: August 15, 2013

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 17, 18; Sage Scrub / alluvial Sage Scrub.

Biological Resources Survey: N/A 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: Steven G. Mork Date: November 26, 2013

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 apply to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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, 30; Riparian Vegetation in area maintained; Invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mow Date: August 15, 2013

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; 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: Steven G. Mow Date: November 26, 2013

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 permits apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 24, 25, 26, 27; Very sparse growth of riparian vegetation in area maintained; Invasives not a problem.

Biological Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Mow Date: August 15, 2013

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, 11, 12; Ornamental and riparian 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: Steven G. Mow Date: November 26, 2013

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 permit conditions listed for this reach.

Observation of Special Status Species: None observed

Pre-Clearing Documentation/Aquatic Resources Survey

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; primarily unvegetated in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach

Name of Biological Monitor: Brian Daniels Date: Aug 30, 2013

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; unvegetated 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: Brian Daniels Date: Dec. 24, 2013

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/Aquatic Resources Survey

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 108, 109; Riparian herb and reedbed vegetation in area maintained; arundo d/s of bridge.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mader Date: August 22, 2013

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 65, 66; Willow, oak, 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):

arundo observed d/s of bridge.

Name of Biological Monitor: Steven G. Mader Date: December 6, 2013

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. (Still intact present in 2005, but not since).

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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, 21; Riparian herb and riparian vegetation in area maintained; some Arundo observed.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Steven G. Mark Date: August 15, 2013

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, Cottonwoods, and Red Eel.

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: Steven G. Mark Date: November 26, 2013

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 shall not exceed 0.03 acre

Observation of Special Status Species: none observed

Pre-Clearing Documentation/Aquatic Resources Survey

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, cattails, and ruderal vegetation in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach.

Name of Biological Monitor: Brian Daniels Date: Aug 26, 2013

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; mix of oaks and ornamental vegetation, but also few willows and sycamores.

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: Brian Daniels Date: Dec. 23, 2013

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 and manner of the permits apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 113, 114, 115, 116, 117, 118; Riparian herb, ornamental, willow branches and riparian vegetation in area maintained; Arundo and Castor Bean present.

Biological Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Moore Date: August 23, 2013

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 96, 97, 98, 99, 100, 101; Mostly ornamental vegetation but also some oaks, willows, and sycamore; Some Arundo on both sides of Kogel Canyon Road 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):

If Arundo at Kogel Canyon Road bridge is not growing on private property, it should be removed.

Name of Biological Monitor: Steven G. Moore Date: December 23, 2013

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):

Although the CDFG Permit lists no specific requirements for this reach, the general conditions and measures of the permit apply.

Observation of Special Status Species: None observed.

Pre-Clearing Documentation/Aquatic Resources Survey

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 110, 111, 112; Riparian herb, ornamental, and ruderal vegetation in area maintained; invasives not a problem.

Biological Resources Survey: N/A to this reach

Name of Biological Monitor: Steven G. Moul Date: August 22, 2013

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 67, 68, 69; Willows, 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: Steven G. Moul Date: December 6, 2013