

Sequence	Area	Title
		PHASE 1
1	B	Area "B" Southeast Gas Lines
2	B	Area "B" South Enhancement
3	A	Area "A' Gas Line Removal
4	A & B	Pedestrian/Bike Bridge
5	A & C	Lincoln Bridge
6	A	Clear, Grub, and Stockpile Area "A"
7	A	Excavate Area "A"
8	A	Area "A' Construct North Levee
9	B & Property 1	Area "B" North Gas Line Relocation & Well Abandonment
10	B	Area "B" North Clear & Grub
11	B	Area "B" North Over-Excavate and Stockpile
12	B	Construct Area "B" Levee
13	B	Clear, Grub, and Stockpile Area "B" East
14	B	Area "B" East Stockpile Grading
15	C	Clear & Grub Area "C" North & South
16	A & C	Area "A" Grading and Export to Area "C" North & South
17	C	Finish Grading for Uplands Area "C" South
18	B	Area "B" New and Reconstructed Culverts
19	A & B	Area "A" and Area "B" North Excavate and Breach Existing Levees
20	A & B	Area "A" and Area "B" North Block and Fill Existing Channels
21	A & B	Area "A" and Area "B" North Remove Existing Levees
22	B	Area "B" West Fire Access Road
23	A & B	Bike Path, Pedestrian Walkway and Amenities

24	A	Export
		PHASE 2
		Area A Gas Well Removal and Restoration
25	A & Property 1	Gas Well Abandonment
26	A	Area A around Wells Clear & Grub
27	A	Area A around Wells Grading and Export to West Area B
28	A	Finish Grading For Uplands
		Area B wells
29	B	Area B Abandon Wells
30	B	Area B around Wells Clear & Grub
31	B	Finish Grading For Uplands
		Area B West
32	B	Area "B" West Clear & Grub
33	B	Area "B" West Grading and Levee Extention
34	B	Area "B" West Excavate and Breach Existing Levees
35	B	Finish Bike Path, Pedestrian Walkway and Amenities
36	B	Finish Grading For Uplands

Sources: Appendix F - Construction Sequencing.pdf; Appendix\_3F.pdf

Restoration Schedule: 2017-2035

Actions	Start Date	Working Days	Overlap	Equipment Reference
1a. Remove and relocate existing gas line	1/2/2017	20	A	4
2a. Create swale (10,000 CY wet cut)	1/2/2017	40	A	1
3a. Remove existing inactive gas line	1/2/2017	10	A	4
3b. Cut and cap gas line at Fiji Way	1/2/2017	1	A	4
4a. Construct temporary & portion of final re-routed trail to existing trail	4/17/2017	40	A, B, C	7
4b. Construct new pedestrian/bike bridge over Ballona Creek	1/2/2017	130	A, B, C	8
4c. Reroute Ballona Creek Bike Trail under Culver Blvd Bridge	7/4/2017	5	A, B, C	7
5a. Build Lincoln Bridge next to Culver Bridge to connect Area A to Area C North	7/4/2017	65	A, B, C	9
6a. Remove vegetation from Area A (54,400 CY dry cut)	7/4/2017	10	C	10
6b. Remove trash	7/4/2017	20	C	10
6c. Stockpile	7/4/2017	20	C	10
7a. Remove 36" concrete pipe near center of Area A	7/4/2017	5	C	4
7b. Excavate old fill from Area A (1,134,200 CY wet cut and 54,400 dry cut, see note)	7/4/2017	555	C	11
7c. Dig below (over excavate) future levees (25,200 CY dry cut)	7/4/2017	5	C	11
8a. Grade and construct new levee around Area A (125,300 CY fill)	7/4/2017	35	C	12
8b. Protect Del Ray 13, 14, 15, 17, and 19	1/2/2017	n/a	n/a	n/a
9a. Drill new well at SoCal Gas Plant to replace Del Ray 12	1/2/2017	50	D	5
9b. Abandon and plug Del Ray 12	4/3/2017	90	D	6
9c. Remove/relocate existing pipelines	7/4/2017	10	D	4
10a. Remove vegetation from Area B North and interim levee (25,000 CY wet cut)	7/4/2017	10	E	10
10b. Remove trash	7/4/2017	50	E	10
11a. Excavate Area B North (56,700 CY wet cut)	7/4/2017	25	E	11
11b. Dig below (over excavate) future levees (11,400k CY wet cut)	7/4/2017	5	E	11
12a. Construct Area B levees (452,800 CY fill = total import from Area A = 566,000 CY)	8/14/2017	165	E	12
13a. Remove vegetation in Area B East (4,600 CY wet cut)	2/5/2018	5	E	1
13b. Stockpile and prepare for fill	2/5/2018	5	E	10
14a. Grade Area B east and import from Area A (80,000 CY import from Area A)	2/12/2018	25	E	11
15a. Protect baseball fields and structures.	1/2/2017	n/a	n/a	n/a
15b. Clear vegetation from Area C North (56,000 CY dry cut) & South (15,000 CY dry cut)	4/2/2018	10	C, E	10
15c. Re-align and replace Marina ditch (45,000 CY wet cut)	4/23/2018	15	C, E	11
16a. Excavate Area A and export to C South (300,000 CY total)	5/21/2018	75	C, E	11
16b. Excavate Area A and export to C North (720,000 CY ultimate total; 420,000 CY to C North)	9/3/2018	110	C, E	11
17a. Finish grading Area C South	6/3/2019	15	C, E	13
17b. Re-establish upland vegetation	6/24/2019	5	C, E	14
18a. Install culverts under Culver/Jefferson Blvd, Gas Co Rd, and FWM berm; modify existing culvert under west end of Culver Blvd.	1/7/2019	130	F	1
18b. Remove existing FWM pipes and outlets	7/8/2019	15	F	1
18c. Construct new FWM outlet and spillway	7/29/2019	40	F	1
19a. Excavate Ballona Creek Channel in Areas A and B North (277,800 CY cut)	4/15/2019	130	G	11
20a. Install temporary pipe	4/15/2019	10	G	4
20b. Temporary block then fill existing Ballona Creek (269,100 CY fill from Seq 19)	4/15/2019	60	G	11
21a. Remove old Ballona Creek levee (424,400CY) and excavate new channel meanders - Export to Area C North, quantities included in Sequence 16, ultimate.	7/8/2019	120	G	11
22a. Construct maintenance and fire road in Area B West	10/14/2019	20	H	7
22b. Reconstruct Area B parking lot	10/14/2019	20	I	7
23a. Construct bike and ped trails on levees	10/14/2019	65	J	7
23b. Construct County Parking Structure Foundation	10/14/2019	60	K	2
23c. Construct County Parking Structure	10/14/2019	120	K	3

24a. Export final excess dirt quantity (Assume up to 110,000 CY)	10/14/2019	35	C, E	15
25a. Drill new well at SoCal Gas Plant to replace Del Ray 19	1/2/2017	50	L	5
25b. Abandon and plug Del Ray 13, 14, 15, 17, 18, and 19	3/13/2017	225	L	6
25c. Remove existing gas lines serving removed wells	1/22/2018	10	L	4
26a. Remove vegetation around wells (2,000 CY)	1/22/2018	5	M	1
27a. Excavate Area A and Export to West Area B (208,000 CY)	1/22/2018	5	M	11
28a. Finish grading around wells	2/12/2018	10	M	1
28b. Re-establish upland vegetation	2/26/2018	5	M	14
29a. Drill new well at SoCal Gas Plant to replace Del Rey 9 and Vidor 18	1/2/2017	50	N	5
29b. Abandon and plug Vidor 1, 2, 3, 5, 14, 18 and Del Rey 4, 5, 9, 11	3/13/2017	225	N	6
29c. Remove existing pipelines	11/13/2017	10	N	4
30a. Remove vegetation around wells (2,000 CY)	11/27/2017	5	O	1
31a. Finish grading around wells	12/4/2017	10	O	1
31b. Re-establish upland vegetation	12/18/2017	5	O	14
32a. Remove vegetation in Area B West (76,000 CY)	4/17/2023	10	P	10
33a. Install temporary flexible storm drain	5/1/2023	10	P	1
33b. Dig below (over excavate) levees (10,800k CY wet cut)	5/1/2023	10	P	12
33c. Grade Area B West channels, construct salt pan berm, and construct levee with import from stockpile from Area B North and East at 248,000 CY (31,200 + 216,800 CY (291,800 less 49,000 and 26,000))	5/15/2023	75	P	12
34a. Breach existing levee in Area B West and place in Stability berms (75,000 CY wet = 26,000 + 49,000)	4/15/2023	130	P	11
35a. Construct maintenance and fire access road and bike path on new levee.	8/14/2023	20	Q	7
36a. Finish grading Area B East	9/4/2023	10	Q	13
36b. Re-establish upland vegetation	9/18/2023	5	Q	14

Notes/ Assumptions
Assumed start date. Schedule shift as required after EIR certification and governmental approvals..
Independent Sequence which may occur any time during the project schedule .
2nd step, start after rainy season
1st step, start on south side
Final step weekend after the 4th of July
Note, if assuming new bridge NOT using existing foundations, Use Equip 8 and 130 days duration
This cut is the 2.05M CY, less cuts accounted for in other sequences. Assume dry max move is 10k cy/day; wet max move is 4k cy/day; wet soil spread over 4 of 20 acre for 5 days is limiting issue.
Within Seq 7b
Within Seq 7b
Uses dry or dried out dirt from Area A, imported over new Ballona bridge. Area A exported dirt placed here first. Time is within 555 days from Seq 7, but extra equipment added during this time.
Uses dry or dried out dirt from Area A, imported over new Ballona bridge. Area A exported dirt placed here second. Time is within 555 days from Seq 7, but extra equipment added during this time.
Uses dry or dried out dirt from Area A, imported over new Lincoln bridge and across Culver Blvd. Area A exported dirt placed here third. Time is within 555 days from Seq 7, but extra equipment added during this time.
Uses dry or dried out dirt from Area A, imported over new Lincoln bridge. Area A exported dirt placed here fourth. Time is within 555 days from Seq 7, but extra equipment added during this time.
Total time allowed during non-rainy season - 4/15 to 10/15
Time assumed within Seq 19
Time assumed within Seq 19
Time assumed within Seq 19
Independent sequence anytime after Seq 8a. Is complete
Independent sequence anytime after Seq 8a. Is complete

Color	Description
	Could start sooner if desired, not later
	Work must start and finish in non-rainy season
	Cannot start until habitat establishment period complete. Work in Non-rainy season
	Independent effort, can start any time after this start date.

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