

Susan Yogi

From: Amanda Leahy <aleahy@kittelson.com>
Sent: Thursday, April 25, 2019 4:17 PM
To: Susan Yogi
Cc: Chris Sanchez; Kevin Yost
Subject: RE: Another question
Attachments: Balboa Reservoir_Intersection Volumes_to ESA 2019-04-25.xlsx

Susan & Chris –

We put together the intersection volumes tables. I have asterisked the study intersections where we didn't go through the exercise of project trip assignment, as our project trip assignment was used for the transit assessment along Ocean and FKW and didn't include some of the locations where we collected existing counts.

Also note there is a table for "reassigned parking trips" these are vehicle trips that under existing conditions are destined for the west basin/lower lot and with the developer's proposed option would be reassigned to the public parking garage.

Amanda Leahy, AICP | Senior Planner | [Kittelson & Associates, Inc.](#)
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From: Susan Yogi <SYogi@esassoc.com>
Sent: Wednesday, April 24, 2019 11:12 AM
To: Amanda Leahy <aleahy@kittelson.com>
Cc: Chris Sanchez <CSanchez@esassoc.com>
Subject: Another question

Amanda,

I'm curious if you have intersection volumes for the proposed project options, similar to the sheet you provided for San Ramon Way? If so, can you send that to us? Sorry if I missed it before.

Susan K. Yogi
Senior Managing Associate
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[Celebrating 50 Years of Work that Matters in 2019!](#)

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Intersection Turning Movement Volumes - Existing, Developer's Proposed Project, Additional Housing, Reassigned Parking

# Intersection		Weekday PM Peak Hour												Weekday AM Peak Hour											
		Northbound			Southbound			Eastbound			Westbound			Northbound			Southbound			Eastbound			Westbound		
#	Intersection	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
1	Ocean / Miramar*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Lee / Ocean	26	2	87	69	29	42	0	863	22	0	856	25	25	3	131	24	10	4	0	858	11	0	807	25
3a	Frida Kahlo / Ocean	0	0	0	97	346	158	146	586	323	0	480	157	0	0	0	48	221	89	179	557	294	0	518	184
3b	Geneva / Ocean	0	598	6	0	0	0	0	586	0	0	637	0	0	616	6	0	0	0	0	557	0	0	702	0
4	San Jose / Ocean	66	226	119	46	224	24	34	268	59	117	203	27	69	394	127	38	166	33	30	191	40	131	256	49
5	Plymouth / Ocean	65	16	74	59	16	23	11	766	72	50	662	52	52	80	63	20	12	7	3	768	56	23	691	66
6	San Ramon / Plymouth*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Plymouth / Greenwood*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	San Jose / Geneva	64	132	39	57	155	187	205	819	127	18	612	70	88	251	29	36	113	163	222	767	124	39	649	109
9	Judson / Frida Kahlo	213	0	366	24	148	0	0	0	0	210	0	100	138	0	190	63	218	0	0	0	0	285	0	126
10	Judson / Hazelwood*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Judson / Genessee*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Genessee / Monterey*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Cloud Cir / Frida Kahlo	0	377	0	0	366	0	103	0	76	0	0	0	0	324	0	0	333	0	48	85	43	0	0	0
14	Cloud Cir South / Frida Kahlo	0	514	93	61	541	0	0	0	0	0	0	0	0	617	102	43	312	0	0	0	0	0	0	0
15	Frida Kahlo / City College N	34	419	0	0	290	76	129	0	84	0	0	0	54	290	0	0	260	235	45	0	60	0	0	0
16	Frida Kahlo / City College S	152	359	0	0	435	34	17	0	168	0	0	0	341	277	0	0	337	27	7	0	30	0	0	0
17	Ocean / SB Off	0	0	0	0	0	496	0	800	0	0	213	0	0	0	0	0	0	538	0	236	0	0	731	0
18	I 280 SB / Geneva	0	0	0	357	7	286	0	361	387	438	754	0	0	0	0	295	5	238	0	422	311	388	804	0
19	I 280 NB / Geneva	503	6	563	0	0	0	107	602	0	0	677	184	474	54	473	0	0	0	189	547	0	0	668	248
20	I 280 NB / Ocean	0	0	0	0	0	0	482	357	0	0	204	87	0	0	0	0	0	0	472	261	0	0	257	111
21	Brighton / Ocean																								

* Existing turning movement count data collected. However, these intersections were not included in the transportation intersection operations analysis (which focused on Frida Kahlo Way and Ocean Avenue) and are the

[illegible]

14	Cloud Cir South / Frida Kahlo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Frida Kahlo / City College N	0	0	0	0	0	61	56	0	0	0	0	0	0	0	29	70	0	0	0	0	0
16	Frida Kahlo / City College S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Ocean / SB Off	0	0	0	0	0	55	0	27	0	0	8	0	0	0	0	30	0	38	0	0	3
18	I 280 SB / Geneva	0	0	0	0	0	0	0	2	18	0	35	0	0	0	0	0	3	25	0	14	0
19	I 280 NB / Geneva	33	0	0	0	0	0	0	2	0	0	2	0	13	0	0	0	3	0	0	1	0
20	I 280 NB / Ocean	0	0	0	0	0	0	25	2	0	0	8	0	0	0	0	32	6	0	0	3	0
21	Brighton / Ocean	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	21	0
22	Harold / Ocean	0	0	0	0	0	0	47	0	0	0	98	0	0	0	0	0	66	0	0	47	0

Notes:

* Existing turning movement count data collected. However, these intersections were not included in the transportation intersection operations analysis (which focused on Frida Kahlo Way and Ocean Avenue) and are the

Additional Housing Option

#	Intersection	Weekday PM Peak Hour												Weekday AM Peak Hour											
		Northbound			Southbound			Eastbound			Westbound			Northbound			Southbound			Eastbound			Westbound		
		Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
1	Ocean / Miramar*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Lee / Ocean	0	60	0	61	0	14	0	0	0	0	0	132	0	18	0	83	0	27	0	0	0	0	0	62
3a	Frida Kahlo / Ocean	0	0	0	0	0	0	0	35	26	0	132	0	0	0	0	0	0	0	0	47	36	0	62	0
3b	Geneva / Ocean	47	0	0	0	0	0	0	35	0	0	85	0	17	0	0	0	0	0	0	47	0	0	45	0
4	San Jose / Ocean	0	0	0	0	0	5	1	1	0	0	6	0	0	0	0	0	2	4	4	0	0	0	3	0
5	Plymouth / Ocean	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	27	0
6	San Ramon / Plymouth*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Plymouth / Greenwood*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	San Jose / Geneva	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	4	0	0	0	1	0	0
9	Judson / Frida Kahlo	38	0	36	0	55	0	0	0	0	27	0	0	53	0	49	0	24	0	0	0	0	13	0	0
10	Judson / Hazelwood*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Judson / Genessee*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Genessee / Monterey*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Cloud Cir / Frida Kahlo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Cloud Cir South / Frida Kahlo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Frida Kahlo / City College N	0	0	0	0	0	82	74	0	0	0	0	0	0	0	0	0	37	102	0	0	0	0	0	0
16	Frida Kahlo / City College S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Ocean / SB Off	0	0	0	0	0	74	0	35	0	0	11	0	0	0	0	0	40	0	47	0	0	5	0	0
18	I 280 SB / Geneva	0	0	0	0	0	0	0	3	23	0	47	0	0	0	0	0	0	4	32	0	17	0	0	0
19	I 280 NB / Geneva	44	0	0	0	0	0	0	3	0	0	3	0	16	0	0	0	0	4	0	0	1	0	0	0
20	I 280 NB / Ocean	0	0	0	0	0	0	33	2	0	0	11	0	0	0	0	0	39	8	0	0	5	0	0	0
21	Brighton / Ocean	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	27	0	0
22	Harold / Ocean	0	0	0	0	0	0	0	61	0	0	132	0	0	0	0	0	0	83	0	0	62	0	0	0

Notes:

* Existing turning movement count data collected. However, these intersections were not included in the transportation intersection operations analysis (which focused on Frida Kahlo Way and Ocean Avenue) and are the

Reassigned Parking Trips

		Weekday PM Peak Hour								Weekday AM Peak Hour												
		Northbound			Southbound			Eastbound		Westbound		Northbound			Southbound			Eastbound		Westbound		
#	Intersection	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
1	Ocean / Miramar*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Lee / Ocean	0	0	0	0	0	0	0	0	0	0	0	0	30	12	7	0	-3	0	0	-7	45
3a	Frida Kahlo / Ocean	0	0	0	0	-13	15	0	9	-9	0	19	9	0	0	0	-4	-17	32	-3	21	8
3b	Geneva / Ocean	5	0	-5	0	0	0	0	19	0	0	4	0	4	0	-4	0	0	0	0	21	0
4	San Jose / Ocean	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	4	1	0	0
5	Plymouth / Ocean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-7	0	0	0

refore not documented here.

referred not documented here.

referred not documented here.

refore not documented here.

Balboa Reservoir

Intersection Turning Movement Volumes - San Ramon Way Alternative

Developer's Proposed Option

		Weekday Daily								Weekday PM Peak Hour								Weekday AM Peak Hour								
#	Intersection	Northbound			Southbound			Eastbound			Westbound			Northbound			Southbound			Eastbound			Westbound			
		Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	
1	Ocean / Miramar	0	0	0	0	0	0	0	16	0	0	11	0	0	0	0	2	0	1	0	0	0	0	1	0	
2	Lee / Ocean	0	75	0	606	0	105	0	0	0	0	797	0	10	0	45	0	7	0	0	100	0	4	0	60	
3a	Frida Kahlo / Ocean	0	0	0	0	0	0	0	356	250	0	555	0	0	0	0	0	28	17	0	68	0	0	0	0	
3b	Geneva / Ocean	270	0	0	0	0	0	0	106	0	528	0	35	0	0	0	11	0	65	0	15	0	0	0	8	
4	San Jose / Ocean	0	0	0	0	0	38	23	18	0	38	0	0	0	0	5	2	1	0	5	0	0	0	0	2	
5	Plymouth / Ocean	0	0	0	11	0	0	0	105	0	16	0	0	0	0	1	0	0	7	0	2	0	0	1	0	
6	San Ramon / Plymouth	0	0	16	236	0	0	0	0	0	11	0	173	0	2	32	0	0	0	1	0	13	0	1	12	
7	Plymouth / Greenwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	San Jose / Geneva	0	0	0	0	0	0	0	29	0	28	0	0	0	0	0	2	0	3	0	0	0	0	0	3	
9	Judson / Frida Kahlo	308	0	369	0	0	0	0	0	309	163	0	0	21	0	28	0	0	0	39	20	0	0	32	0	36
10	Judson / Hazelwood	0	0	0	309	0	0	0	0	0	0	308	0	0	0	39	0	0	0	0	0	21	0	0	18	
11	Judson / Genessee	0	0	0	0	0	16	33	336	0	147	0	0	0	0	2	4	24	0	0	18	0	0	0	1	
12	Genessee / Monterey	0	0	33	0	0	0	0	0	0	16	0	0	0	0	4	0	0	0	2	0	0	0	2	0	
13	Cloud Cir / Frida Kahlo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	Cloud Cir South / Frida Kahlo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Frida Kahlo / City College N	0	0	0	0	0	473	677	0	0	0	0	0	0	0	59	49	0	0	0	0	0	0	28	68	
16	Frida Kahlo / City College S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	Ocean / SB Off	0	0	0	0	0	452	0	356	0	75	0	0	0	0	55	0	28	0	10	0	0	0	28	34	
18	I 280 SB / Geneva	0	0	0	0	0	0	29	221	0	270	0	0	0	0	0	2	15	0	35	0	0	0	0	0	
19	I 280 NB / Geneva	242	0	0	0	0	0	29	0	28	0	32	0	0	0	0	2	0	3	0	13	0	0	0	3	
20	I 280 NB / Ocean	0	0	0	0	0	315	40	0	75	0	0	0	0	0	0	25	3	0	10	0	0	0	30		
21	Brighton / Ocean	0	0	0	0	0	0	0	105	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	
22	Harold / Ocean	0	0	0	0	0	0	0	606	0	797	0	0	0	0	0	0	45	0	100	0	0	0	0	60	

Additional Housing Option

		Weekday Daily												Weekday PM Peak Hour												Weekday AM Peak Hour											
#	Intersection	Northbound			Southbound			Eastbound			Westbound			Northbound			Southbound			Eastbound			Westbound			Northbound			Southbound			Eastbound			Westbound		
		Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right			
1	Ocean / Miramar	0	0	0	0	0	0	0	17	0	0	19	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2	0	0		
2	Lee / Ocean	0	107	0	853	0	144	0	0	0	0	1120	0	14	0	58	0	8	0	0	0	136	0	5	0	81	0	15	0	0	0	0	60	0			
3a	Frida Kahlo / Ocean	0	0	0	0	0	0	0	507	346	0	786	0	0	0	0	0	36	22	0	93	0	0	0	0	0	0	0	0	47	34	0	44	0			
3b	Geneva / Ocean	369	0	0	0	0	0	0	162	0	0	752	0	47	0	0	0	14	0	0	89	0	18	0	0	0	0	0	13	0	0	42	0	0			
4	San Jose / Ocean	0	0	0	0	0	50	38	31	0	0	57	0	0	0	0	7	2	2	0	7	0	0	0	0	0	0	2	4	3	0	3	0	0			
5	Plymouth / Ocean	0	0	0	19	0	0	0	144	0	17	0	0	0	1	0	0	8	0	2	0	0	0	0	2	0	0	0	15	0	1	0	0	0			
6	San Ramon / Plymouth	0	0	17	327	0	0	0	0	0	19	0	240	0	0	2	43	0	0	0	1	0	16	0	0	1	15	0	0	0	2	0	23	0			
7	Plymouth / Greenwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
8	San Jose / Geneva	0	0	0	0	0	0	0	36	0	0	35	0	0	0	0	0	3	0	0	4	0	0	0	0	0	0	0	3	0	0	2	0	0			
9	Judson / Frida Kahlo	445	0	518	0	0	0	0	0	446	213	0	0	28	0	38	0	0	0	54	25	0	0	44	0	47	0	0	0	24	12	0	0	0			
10	Judson / Hazelwood	0	0	0	446	0	0	0	0	0	0	445	0	0	0	54	0	0	0	0	0	28	0	0	24	0	0	0	0	0	0	0	44	0			
11	Judson / Genessee	0	0	0	0	0	17	45	473	0	0	195	0	0	0	0	2	6	32	0	23	0	0	0	0	0	0	1	2	45	0	11	0	0			
12	Genessee / Monterey	0	0	45	0	0	0	0	0	0	17	0	0	0	0	6	0	0	0	2	0	0	0	0	2	0	0	0	0	0	1	0	0	0			
13	Cloud Cir / Frida Kahlo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
14	Cloud Cir South / Frida Kahlo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
15	Frida Kahlo / City College N	0	0	0	0	659	963	0	0	0	0	0	0	0	0	79	66	0	0	0	0	0	0	0	0	0	36	91	0	0	0	0	0	0			
16	Frida Kahlo / City College S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17	Ocean / SB Off	0	0	0	0	644	0	507	0	107	0	0	0	0	0	75	0	36	0	14	0	0	0	0	0	0	37	0	47	0	5	0	0	0			
18	I 280 SB / Geneva	0	0	0	0	0	0	36	310	0	369	0	0	0	0	0	3	19	0	47	0	0	0	0	0	0	0	0	3	31	0	18	0	0			
19	I 280 NB / Geneva	334	0	0	0	0	0	36	0	35	0	43	0	0	0	0	3	0	4	0	16	0	0	0	0	0	0	3	0	0	2	0	0	0			
20	I 280 NB / Ocean	0	0	0	0	439	68	0	107	0	0	0	0	0	0	32	4	0	14	0	0	0	0	0	0	0	40	7	0	5	0	0	0	0			
21	Brighton / Ocean	0	0	0	0	0	0	0	144	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0			
22	Harold / Ocean	0	0	0	0	0	0	853	0	1120	0	0	0	0	0	0	0	58	0	136	0	0	0	0	0	0	0	81	0	60	0	47	0	0			