

Countryman, Ryan

From: Tom McCormick <tommccormick@mac.com>
Sent: Wednesday, June 08, 2016 2:38 PM
To: Kendra Dedinsky
Cc: Debbie Tarry; Bill Willard; John John; Tom Mailhot; Jerry Patterson; Tom McCormick; Countryman, Ryan
Subject: Traffic counts for Richmond Beach Road west of 8th
Attachments: 4-5-16 spare capacity TCC counts.xlsx

Kendra,

The City's traffic count for Richmond Beach Road between 15th Ave NW and 8th Ave Northwest dropped abnormally to 9,764 in 2015, compared to the prior years' average of 12,014.

Traffic counts for Richmond Beach Road between 15th Ave NW and 8th Ave Northwest, for the years 2005-2015, were as follows:

2015 — **9,764**

2014 — **12,832** near 15th; 14,989 near 8th (I think that the 14,989 count was meant to be for east of 8th, so I am ignoring it)

2013 — **11,351**

2012 — **10,985**

2009 - 2011 — **12,338** near 15th; 12,613 near 8th (average of 12,475)

2006 - 2008 — **12,613**

2005 — **11,963**

Average for the six bolded figures above, for years prior to 2015: **12,014**

Because we have doubts about the City's most recent traffic count for Richmond Beach Road, we hired a traffic counting firm (Traffic Count Consultants, Inc.) to do traffic counts at the location circled below. The counts were done over three days, Tuesday May 31, Wednesday June 1, and Thursday June 2. Because the counts were done right after memorial Day (May 30), we believe that the counts are lower than for a normal week in May. Having said that, here are the counts by Traffic Count Consultants, Inc. that our coalition commissioned:

2016 Volumes

	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)
Eastbound	5900	551	385 - 40% of total
Westbound	5959	315	575 - 60% of total
Total	11859	866	960

A spreadsheet that I received from the City (attached to this email) shows that, based on the City's 2015 abnormally low traffic counts, the City calculates the westbound Peak PM spare capacity for a 3-lane Richmond Beach Road between NW 190th St and 12th Ave NW to be 363 veh/hour. In contrast, based on the 2016 TCC/RB Coalition counts, we calculate the **westbound Peak PM spare capacity to be 261 veh/hour**, a whopping 102 peak PM vehicles per hour less what what the City calculated. [Note: The spreadsheet also includes counts (synchro model) done by BSRE that are much lower than the City's counts, with a calculated westbound Peak PM spare capacity of just 241 veh/hour compared to the City's 363 veh/hour.]

A westbound Peak PM spare capacity of 261 veh/hour translates roughly into an **ADT spare capacity of 4,350 - 5,438 ADTs on a 3-lane Richmond Beach Road** between NW 190th St and 12th Ave NW. [Note: We know that 60% of the total two-directional trips on Richmond Beach Road head west during the peak PM hour, so the total two-directional peak PM spare capacity would be 435 ($= 261 \div .60$). That translates to a spare capacity of 4,350 ADTs under a rule of thumb that two-directional peak PM trips are about 10% of ADTs, or 5,438 ADTs under an 8% rule of thumb.]

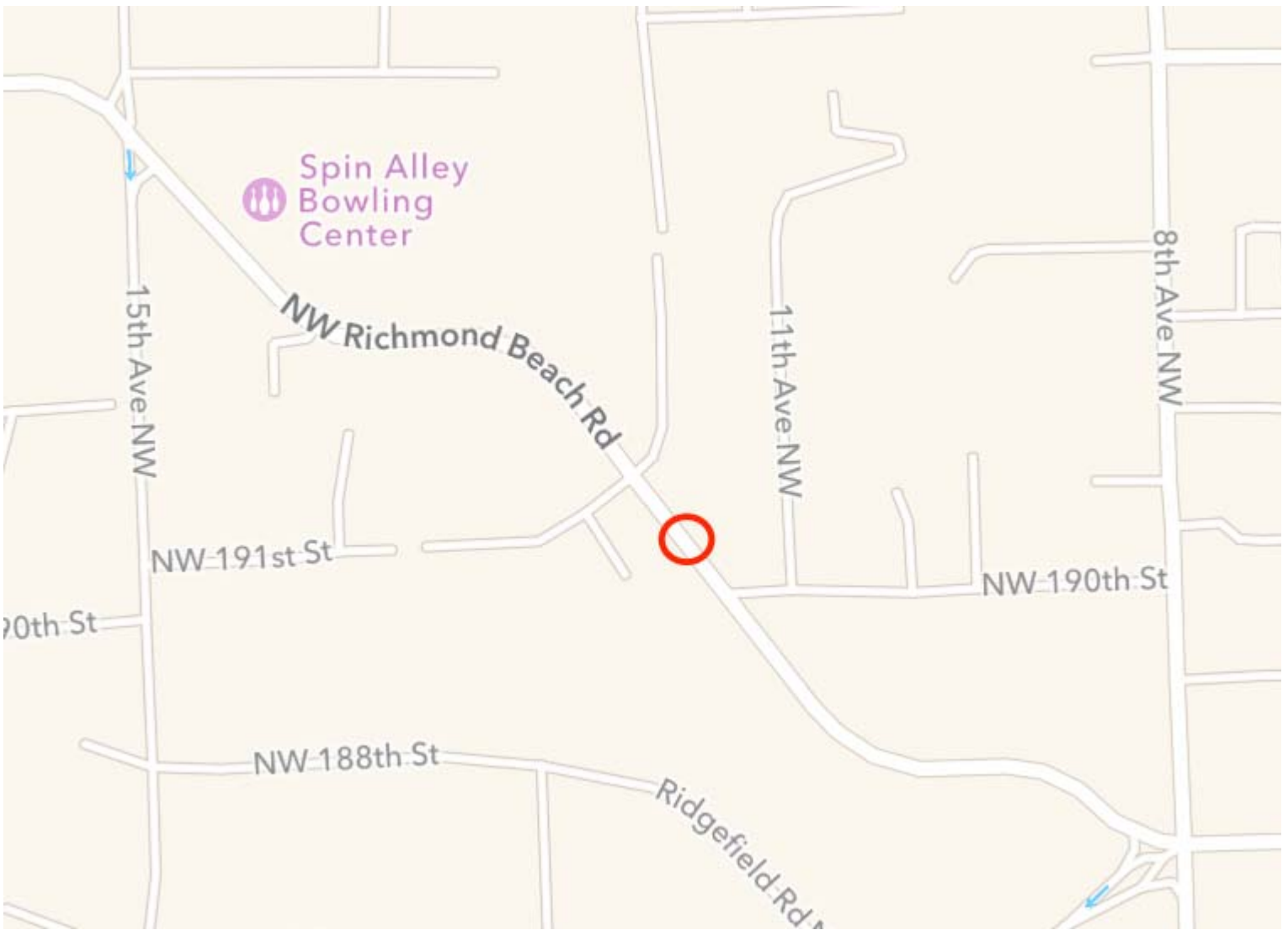
If the 3-lane configuration for Richmond Beach Road extended east of 8th, there would be little to no space capacity.

Kendra, could you please contact me to chart a course to correct the City's abnormally low 2015 counts, and to correct the calculations of spare capacity that are based on those abnormally low counts.

Thank you.

Tom McCormick

"A small development at Point Wells with a second public access road, or no development at all."



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City of Shoreline Traffic Flow Map **2015** based on a late 2014 count
24-Hour Average Weekday Traffic (Combined Two-Directional Totals)
NOTE: The attached spreadsheet says the City's count for 2014 is 9886



City of Shoreline Traffic Flow Map **2014**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



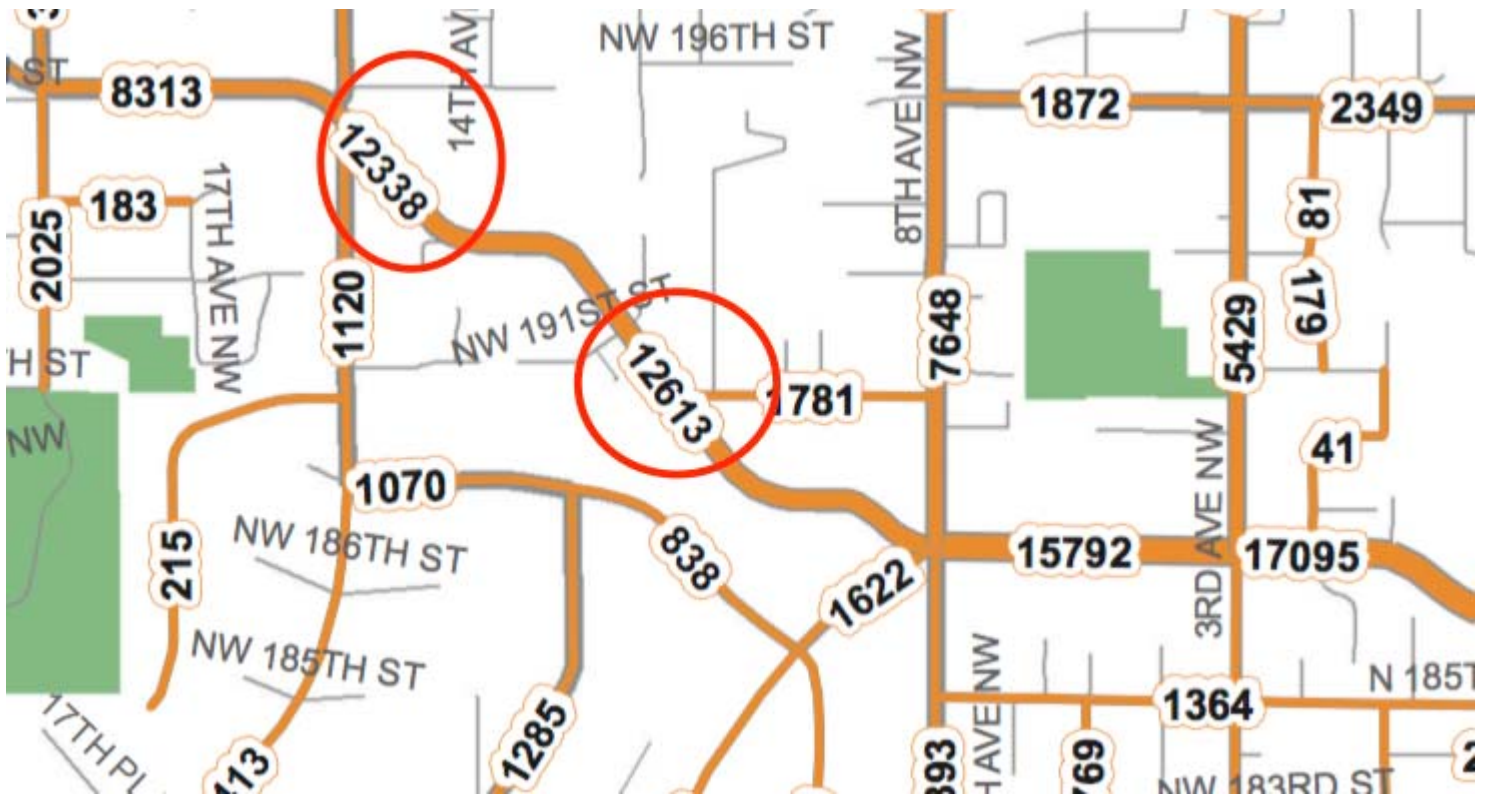
City of Shoreline Traffic Flow Map **2013**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



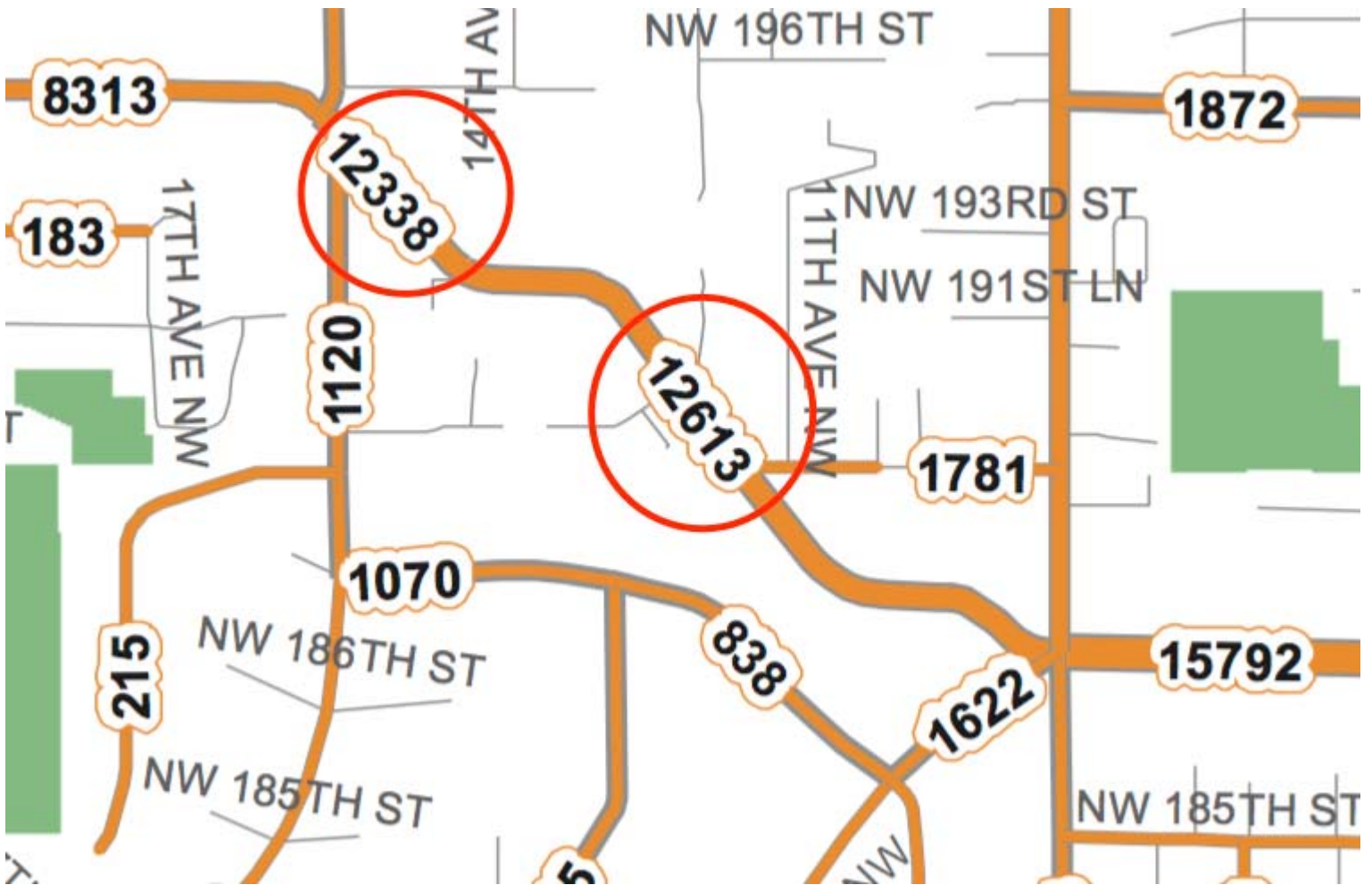
City of Shoreline Traffic Count for **2012**
 Per 6/19/2014 email from R. Meredith

"I have another traffic volume study on NW Richmond Bch Rd east of 15th Ave NW from the week of April 27, 2012. The AWDT was 10,985."

City of Shoreline Traffic Flow Map **2011**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



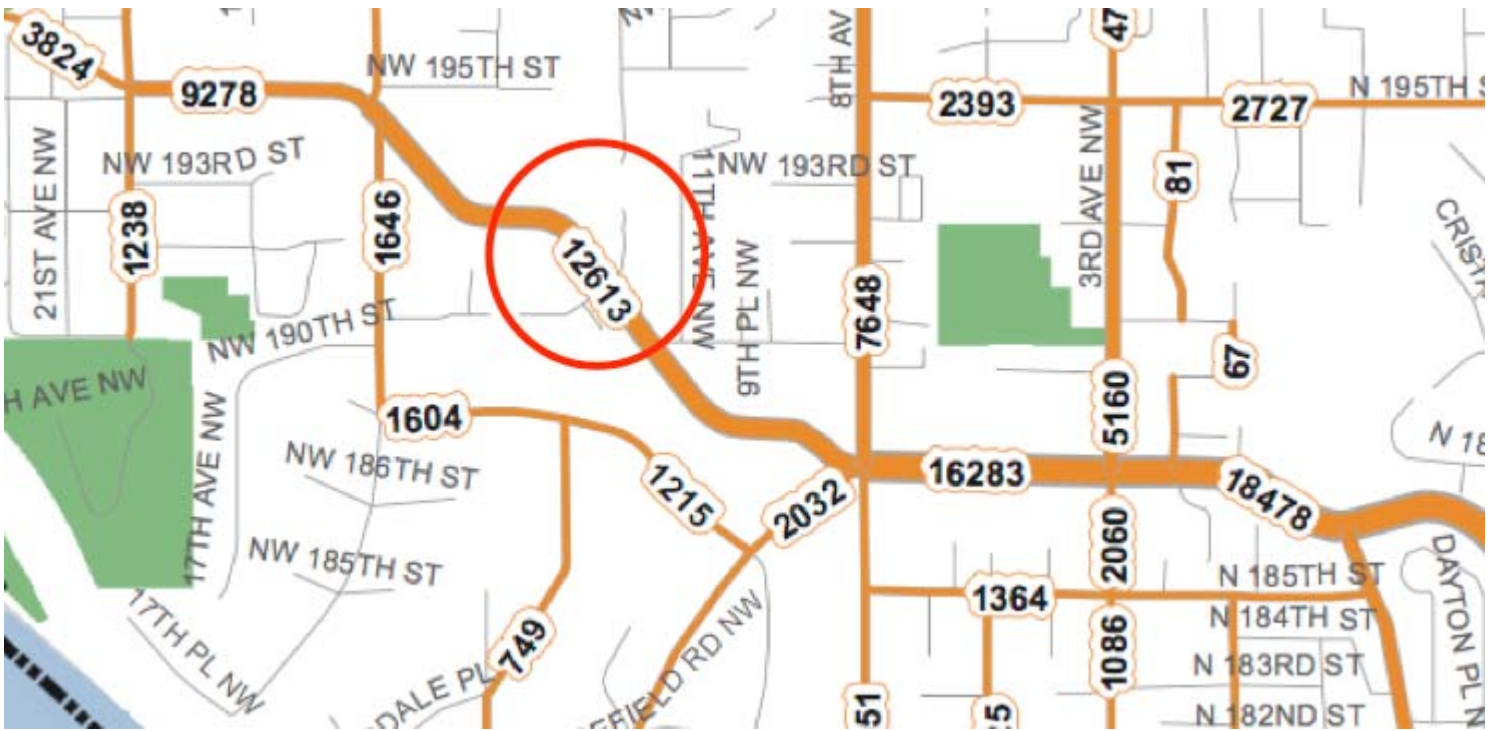
City of Shoreline Traffic Flow Map **2010**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



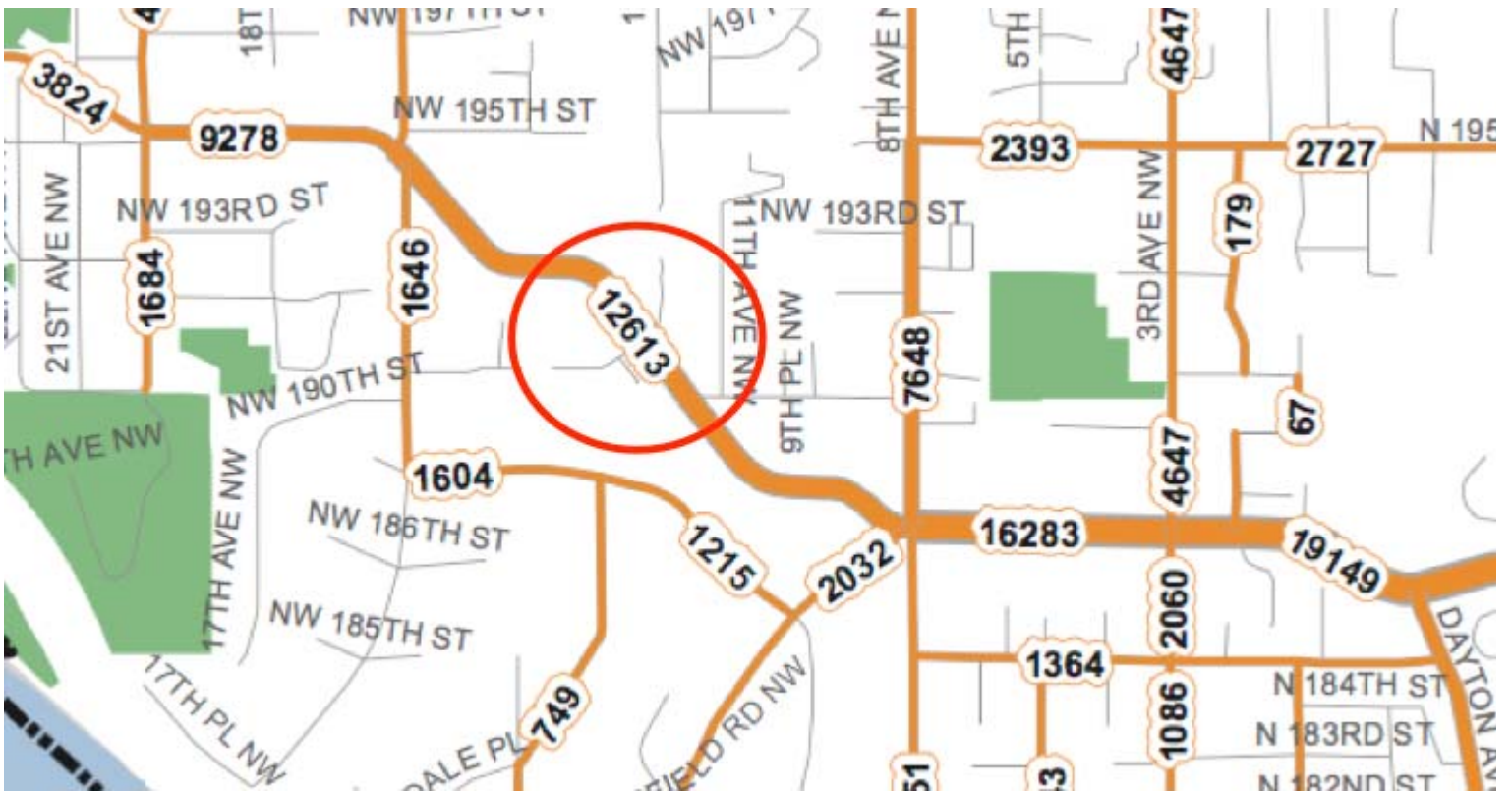
City of Shoreline Traffic Flow Map **2009**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



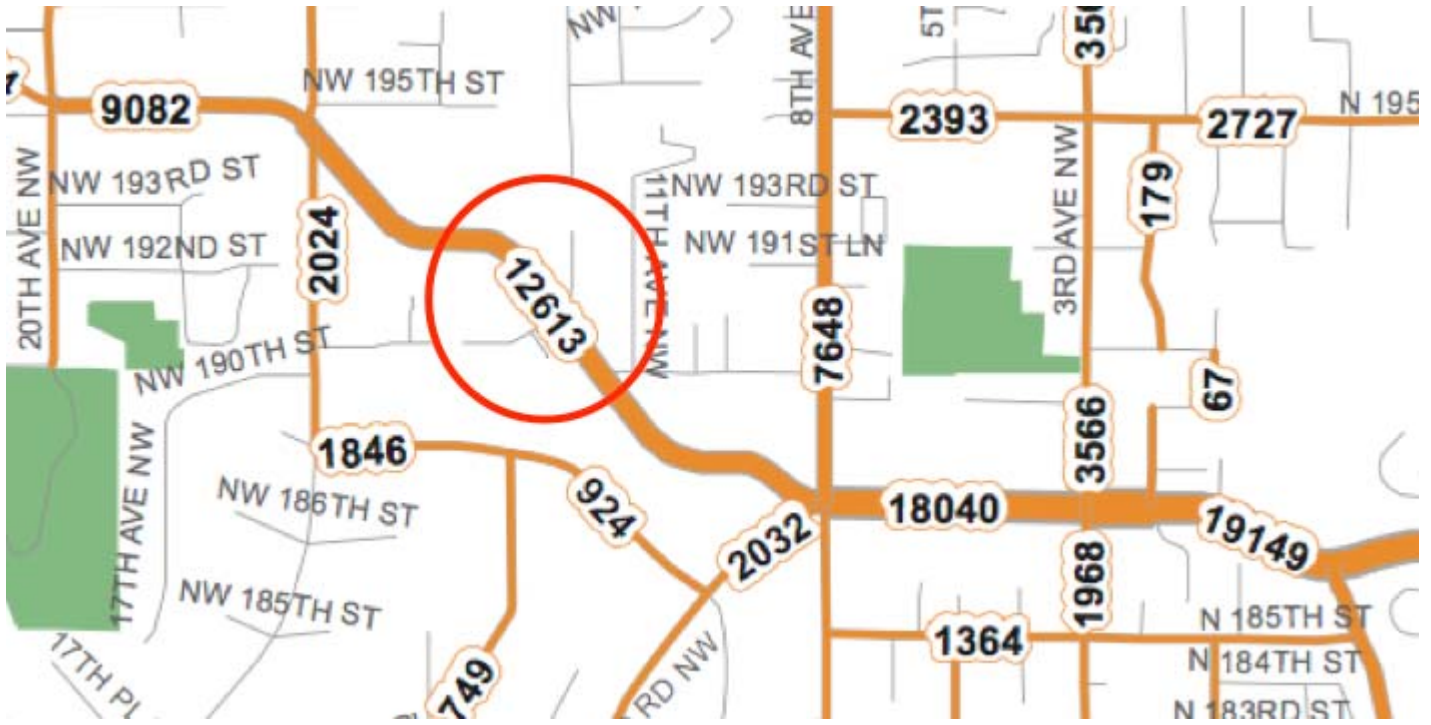
City of Shoreline Traffic Flow Map **2008**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



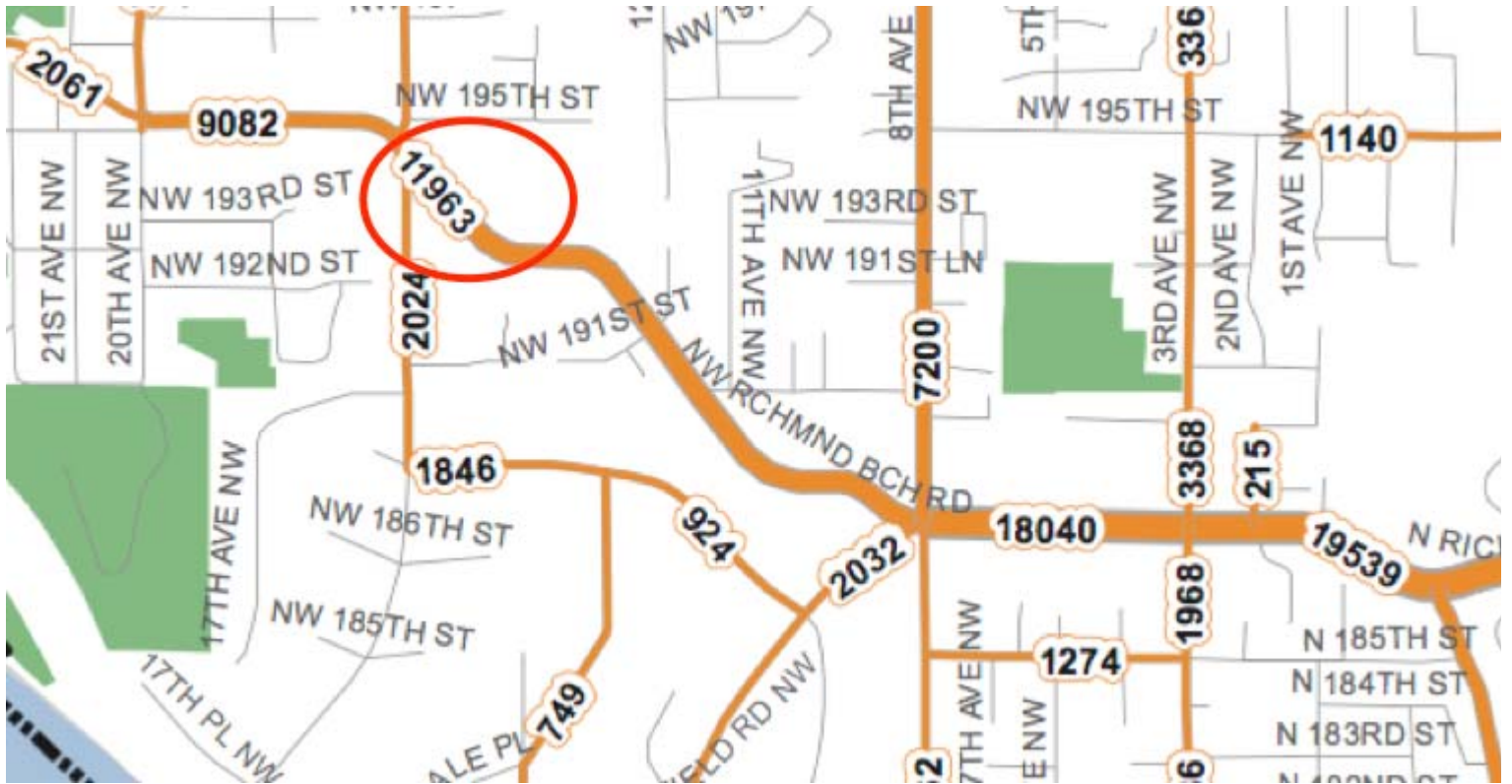
City of Shoreline Traffic Flow Map **2007**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



City of Shoreline Traffic Flow Map **2006**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



City of Shoreline Traffic Flow Map **2005**
 24-Hour Average Weekday Traffic (Combined Two-Directional Totals)



2014 Shoreline Traffic Services Counts - Winter Quarter 2014 - NW Richmond Beach Rd between 8th Ave NW and 15th Ave NW												
	2014 Volumes			2035 Added Growth			2035 Volumes				City - 2035	City - 2035
	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	Directional Capacity (veh/hour)	Spare Capacity AM (veh/hour)	Spare Capacity PM (veh/hour)
Eastbound	4957	452	323	248	22.6	16.15	5205	475	339	960	389	525
Westbound	4929	233	477	246	11.65	23.85	5175	245	501	960	619	363
Total	9886	685	800	494	34.25	40	10380	719	840			

BSRE Traffic Volumes from Synchro Model Submission 12/3/2014 - NW Richmond Beach Rd between 8th Ave NW and 15th Ave NW												
	2014 Volumes			2035 Added Growth			2035 Volumes				BSRE - 2035	BSRE - 2035
	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	Directional Capacity (veh/hour)	Spare Capacity AM (veh/hour)	Spare Capacity PM (veh/hour)
Eastbound	-	504	406	-	25	20	-	529	426	960	335	438
Westbound	-	221	592	-	11	30	-	232	622	960	632	242
Total	-	725	998	-	36	50	-	761	1048			

May 31-June 2 Traffic Count Consultants, Inc. Counts - NW Richmond Beach Rd between NW 190th St and 12th Ave NW												
	2016 Volumes			2035 Added Growth (0.25% compounded) *			2035 Volumes *				TCC/RB Coalition - 2035 *	
	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	AWDT (veh/day)	AM Peak (veh/hour)	PM Peak (veh/hour)	Directional Capacity (veh/hour)	Spare Capacity AM (veh/hour)	Spare Capacity PM (veh/hour)
Eastbound	5900	551	385	286	26.77	18.7	6186	578	404	960	286	460
Westbound	5959	315	575	289	15.3	27.94	6248	330	603	960	534	261
Total	11859	866	960	575	42.07	46.64	12434	908	1007			

* NOTE: To be consistent with the City and BSRE tables above we use 2035 as the full buildout date. However, for reasons articulated in prior emails, we believe that 2045 should be the assumed full buildout date.

From 2009 Lochner Report:

Units	Entering	Exiting	Entering	Exiting	Combined Trips
500	131	64	225	325	550
1000	231	114	325	375	700
1500	322	159	410	415	825
2000	408	200	495	455	950
2500	489	241	590	510	1,100
3000	568	280	675	550	1,225
3220	602	297	710	576	1,286
3500	645	318	760	590	1,350