

OLWQS 2018 1 SOUTH BASIN

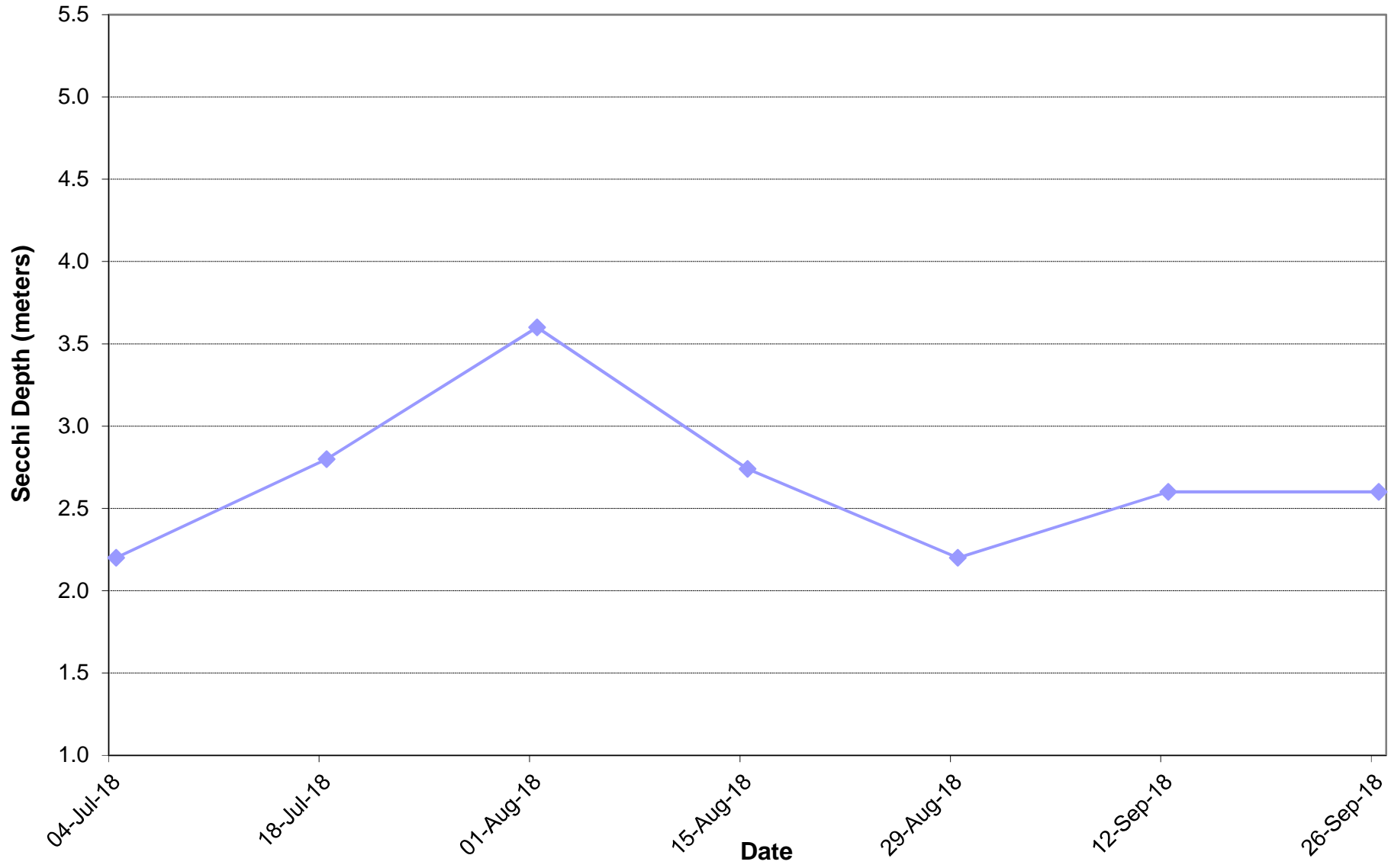
DATA - SOUTH BASIN (Border)- 2018

DATE	TIME	SKY CONDITION	WIND DIRECTION	WIND STRENGTH	WATER CONDITION	AIR TEMPERATURE (°C)	LAKE DEPTH (meters)	SECCHI DISC (meters)	TEMP, SURFACE (°C at 0m)	TEMP, BOTTOM (°C at 20m)	D.O. SURFACE (mg/l at 0m)	D.O. BOTTOM (mg/l at 20m)	SPEC. COND. - SURFACE (µS/cm)	SPEC. COND. - BTM (µS/cm)	pH SURFACE	pH BOTTOM (18m)	THERMOCLINE			NOTES	
																	DEPTH (meters)	TEMP (°C)	D.O. (ppm)		
4-Jul-18	10:05 AM	Scattered	NE	Calm	Light ripple	21	24	2.2	19.9	11.5	8.61	2.30	269.5	300.4	7.16	6.34	12.0	13.5	3.3		
18-Jul-18	9:20 AM	Clear	NW	Moderate	Small waves	33	24	2.8	23.7	12.2	7.52	1.70	275.3	294.6	7.88	6.97	12.0	14.9	2.1		
1-Aug-18	8:45 AM	Clear		Calm	Calm	24	24	3.6	24.9	12.9	8.28	1.80	281.4	295.3	8.24	7.10	14.0	13.8	1.1		
15-Aug-18	8:42 AM	Clear	N	Light	Light ripple	17	25	2.7	22.8	13.5	8.05	0.95	297.2	308.2	7.98	7.27	16.0	14.0	0.8		
29-Aug-18	9:20 AM	Overcast	S	Moderate	Small Waves	19	24	2.2	19.7	13.4	7.61	0.02	234.0	283.0	8.19	7.17	14.0			Used Hydrolab HL4 sond, first time.	
12-Sep-18	9:15 AM	Broken	NW	Light	Light ripple	10	24	2.6	19.0	13.7	8.50	0.00	282.0	288.0	8.33	7.31	15.0	14.6	0.1	Used Hydrolab HL4 sond.	
26-Sep-18	8:55 AM	Clear		Calm	Calm	9	24	2.6	17.3	14.2	8.29	0.00	283.5	291.0	8.25	7.40	18.0	14.7	0.2	Used Hydrolab HL4 sond.	

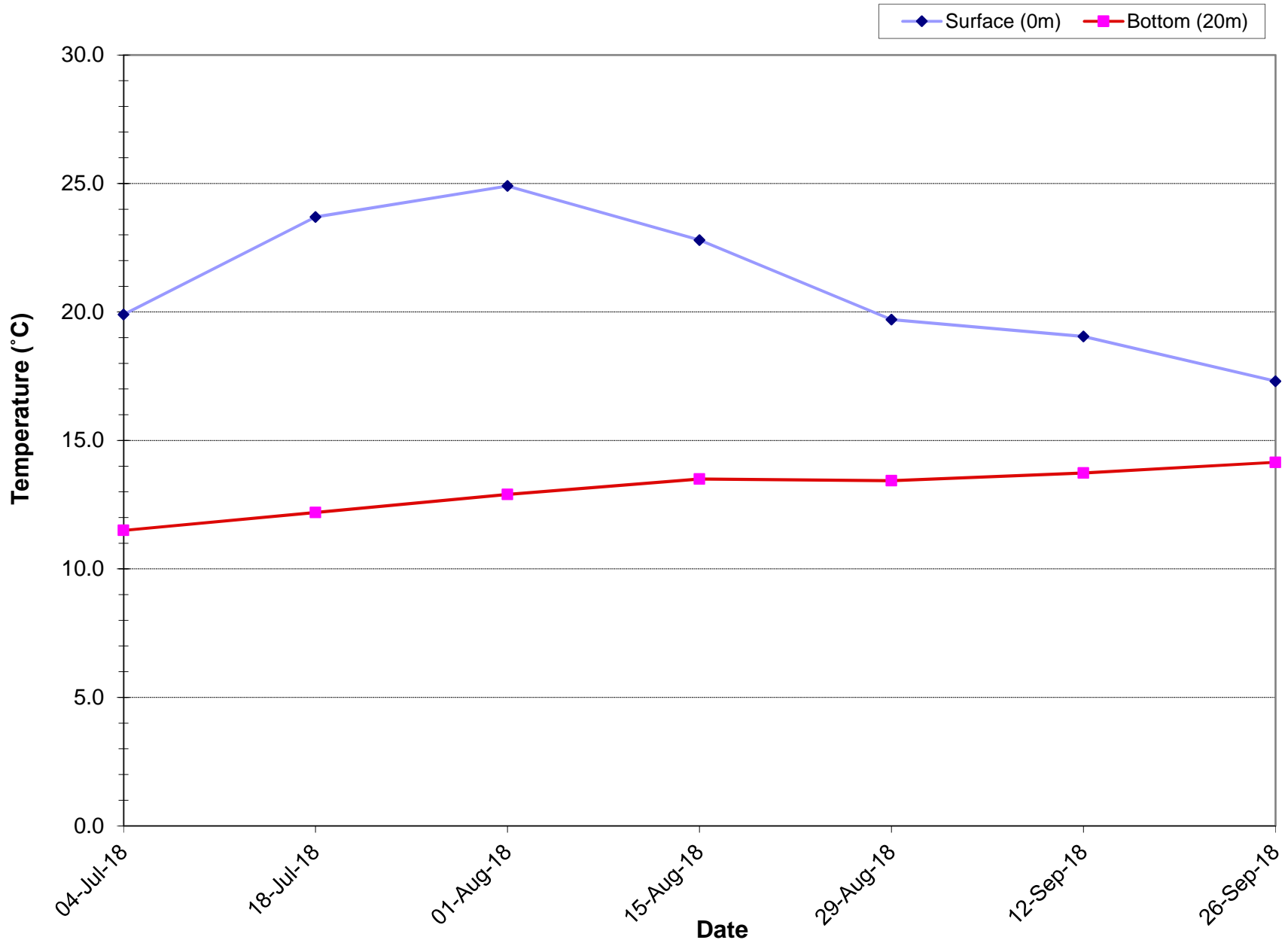
CHANGES MADE 2018:

1. Lake locations tested: South basin, Central basin, White sands, and Packing house. The North end was dropped as recommended by ENV. Nov. 2017, reducing the north basin testing from three to two locations.
2. Testing frequency: This was changed from weekly to bi-weekly, but the season should be extended with some testing as early as April, as recommended by ENV. Nov. 2017. Early testing did not occur due to a combination of spring flooding which prevents the pontoon boat passing under the bridge, debris in the lake during flooding, and essential repairs needed to the pontoon boat.
3. New instrument: A Hydrolab HL4 sond was purchased, and used from the 29th August for water testing.
4. New activity: Plankton samples, and surface water samples that are tested for calcium, were taken at each lake location along with doing the regular water tests. This is a collaborative arrangement with the Okanagan and Similkameen Invasive Species Society (OASISS).

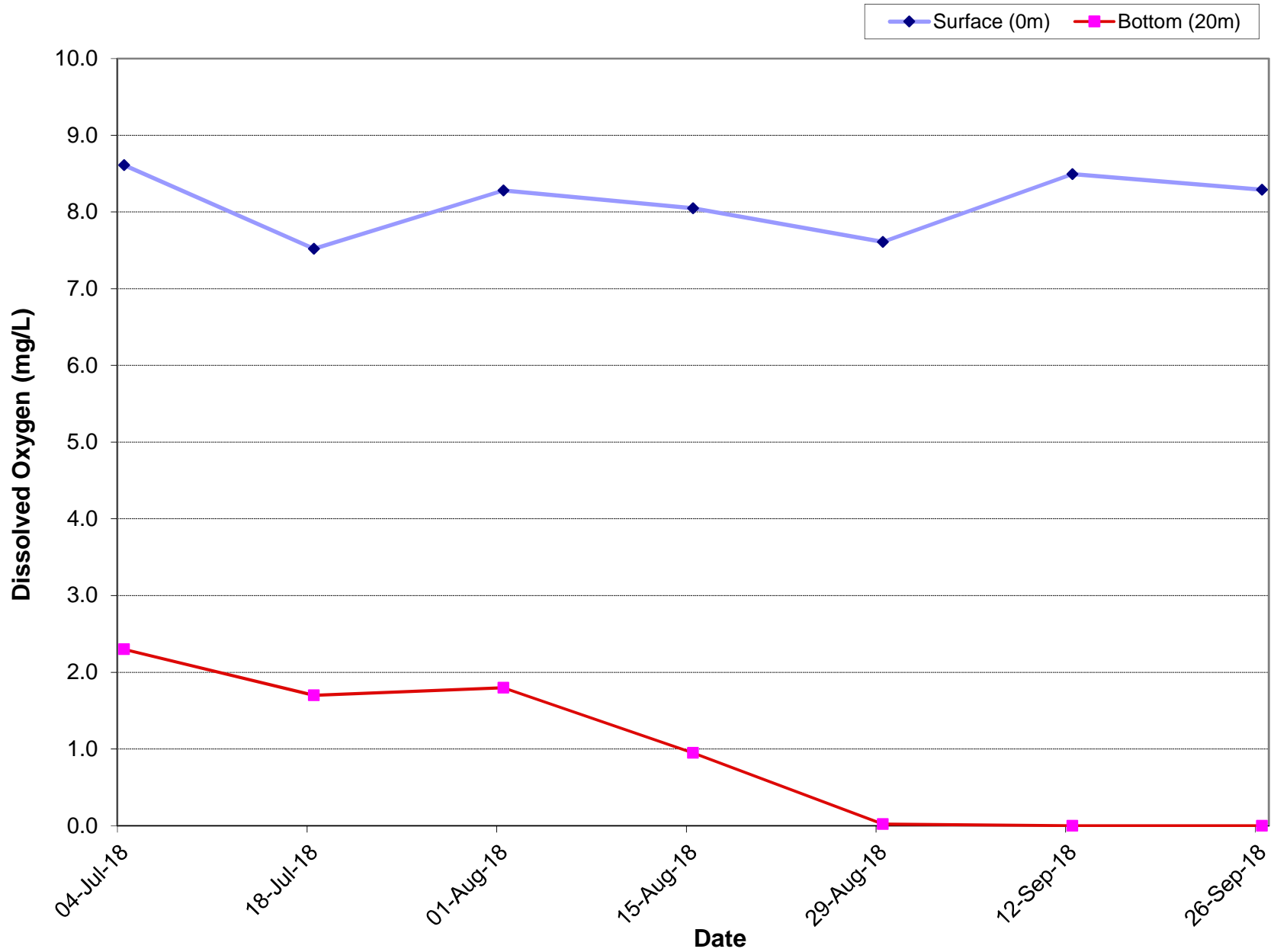
Osoyoos Lake (at South Basin) - Secchi Depth 2018



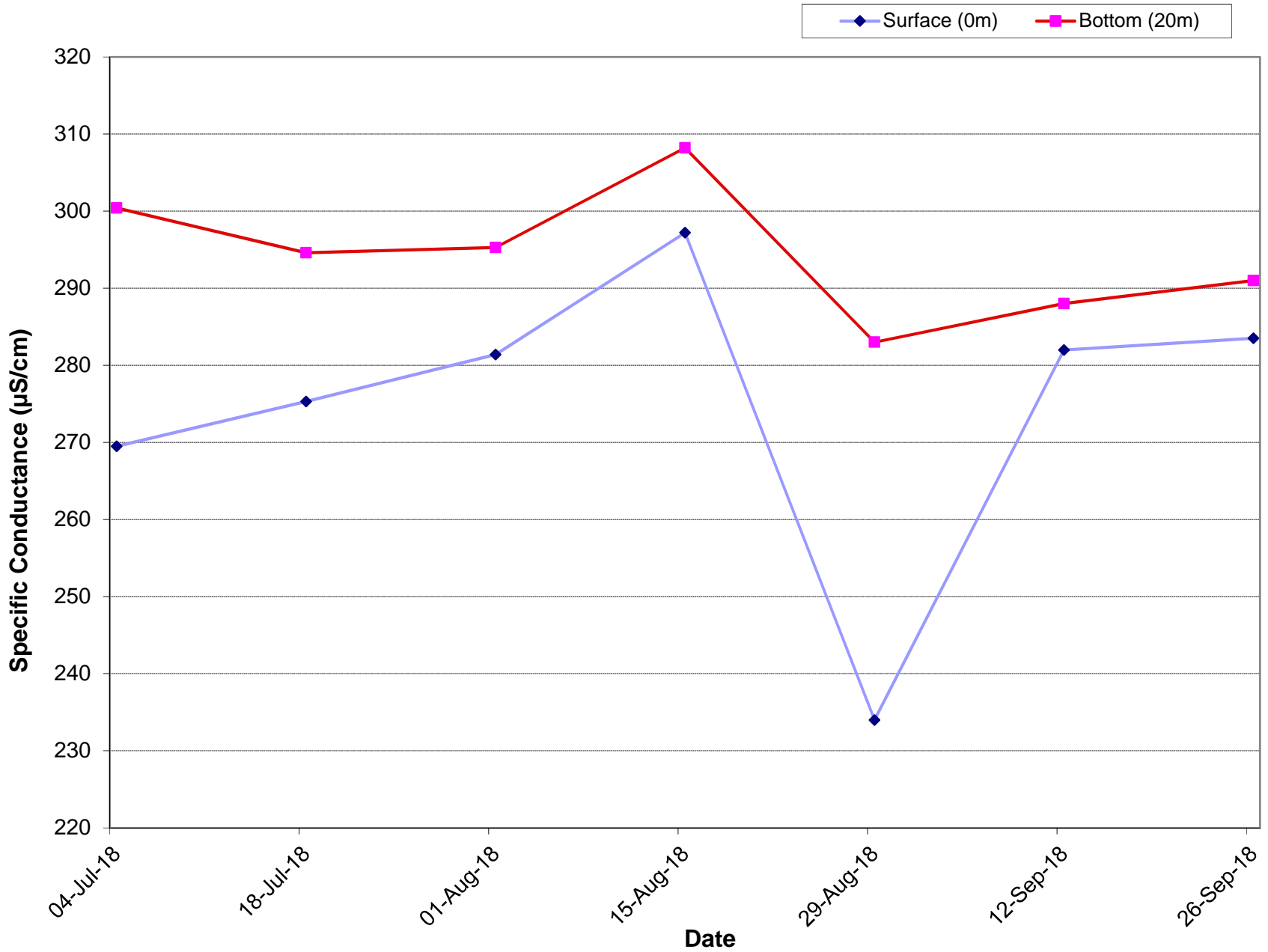
Osoyoos Lake (at South Basin) - Water Temperature 2018



Osoyoos Lake (at South Basin) - Dissolved Oxygen Levels 2018



Osoyoos Lake (at South Basin) - Specific Conductance Data 2018



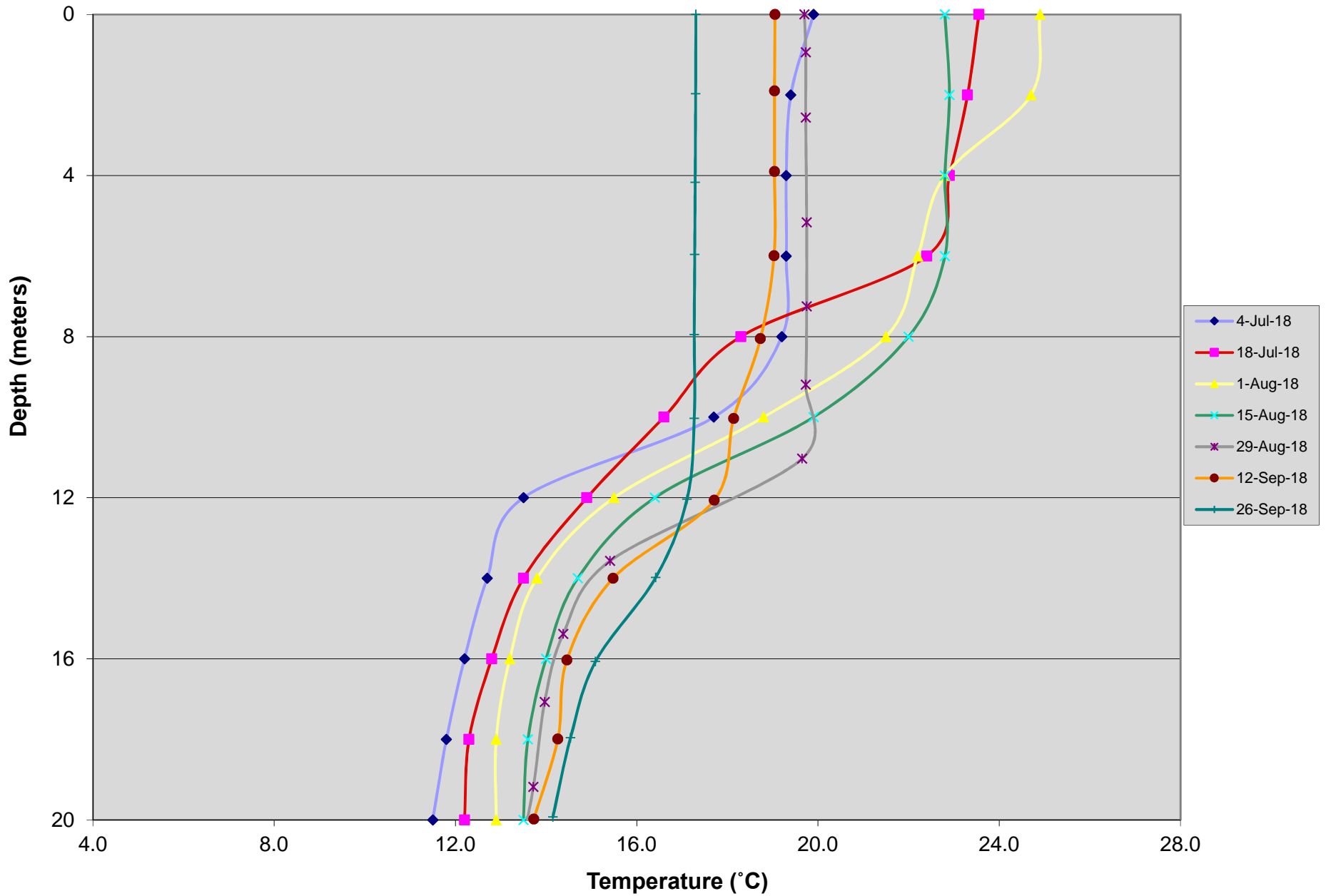
OLWQS - SOUTH BASIN 2017

Depth (m)							
4-Jul-18	18-Jul-18	1-Aug-18	15-Aug-18	29-Aug-18	12-Sep-18	26-Sep-18	
0	0	0	0	0	0	0	
2	2	2	2	0.94	1.9	1.97	
4	4	4	4	2.56	3.9	4.17	
6	6	6	6	5.16	5.99	5.96	
8	8	8	8	7.25	8.05	7.95	
10	10	10	10	9.19	10.03	10.03	
12	12	12	12	11.03	12.06	12.04	
14	14	14	14	13.57	14	13.98	
16	16	16	16	15.38	16.03	16.07	
18	18	18	18	17.07	17.99	17.96	
20	20	20	20	19.18	19.98	19.93	
				20.82			

Temperature (°C)							
4-Jul-18	18-Jul-18	1-Aug-18	15-Aug-18	29-Aug-18	12-Sep-18	26-Sep-18	
19.9	23.6	24.9	22.8	19.7	19.1	17.3	
19.4	23.3	24.7	22.9	19.7	19.0	17.3	
19.3	22.9	22.8	22.8	19.7	19.0	17.3	
19.3	22.4	22.2	22.8	19.8	19.0	17.3	
19.2	18.3	21.5	22.0	19.8	18.7	17.3	
17.7	16.6	18.8	19.9	19.7	18.1	17.3	
13.5	14.9	15.5	16.4	19.7	17.7	17.1	
12.7	13.5	13.8	14.7	15.4	15.5	16.4	
12.2	12.8	13.2	14.0	14.4	14.5	15.1	
11.8	12.3	12.9	13.6	14.0	14.3	14.5	
11.5	12.2	12.9	13.5	13.7	13.7	14.2	
				13			

Dissolved Oxygen (mg/L)							
4-Jul-18	18-Jul-18	1-Aug-18	15-Aug-18	29-Aug-18	12-Sep-18	26-Sep-18	
8.61	7.52	8.28	8.05	7.61	8.48	8.29	
8.56	7.24	7.96	8.07	7.62	8.52	8.30	
8.62	7.23	7.44	8.11	7.53	8.45	8.28	
8.61	7.08	6.93	8.14	7.47	7.84	8.21	
8.59	4.32	6.10	6.24	7.47	6.45	8.17	
6.00	3.05	3.55	3.40	7.30	4.24	8.02	
3.33	2.05	1.38	0.77	7.22	2.03	5.57	
2.99	1.63	1.07	0.79	0.12	0.07	2.50	
2.39	1.42	1.46	0.80	0.07	0.05	0.00	
2.32	1.52	1.57	0.83	0.05	0.01	0.00	
2.30	1.70	1.80	0.95	0.04	0.00	0.00	
				0.02			

Osoyoos Lake (at South Basin) - Temperature Profiles 2018



Osoyoos Lake (at South Basin) - Oxygen Profiles 2018

