2014 Lower Russian River and Estuary Water Quality Monitoring

Jeff Church

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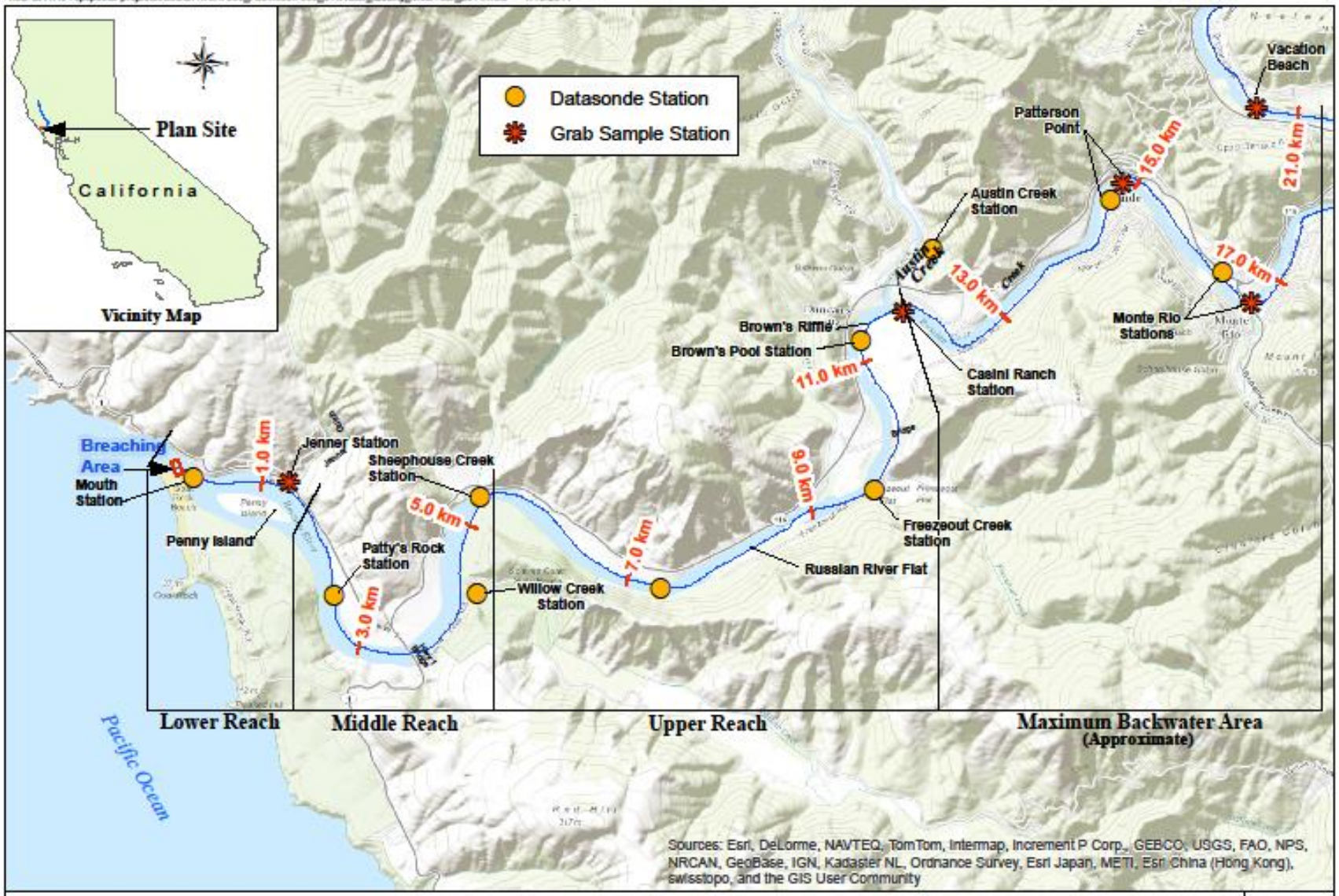
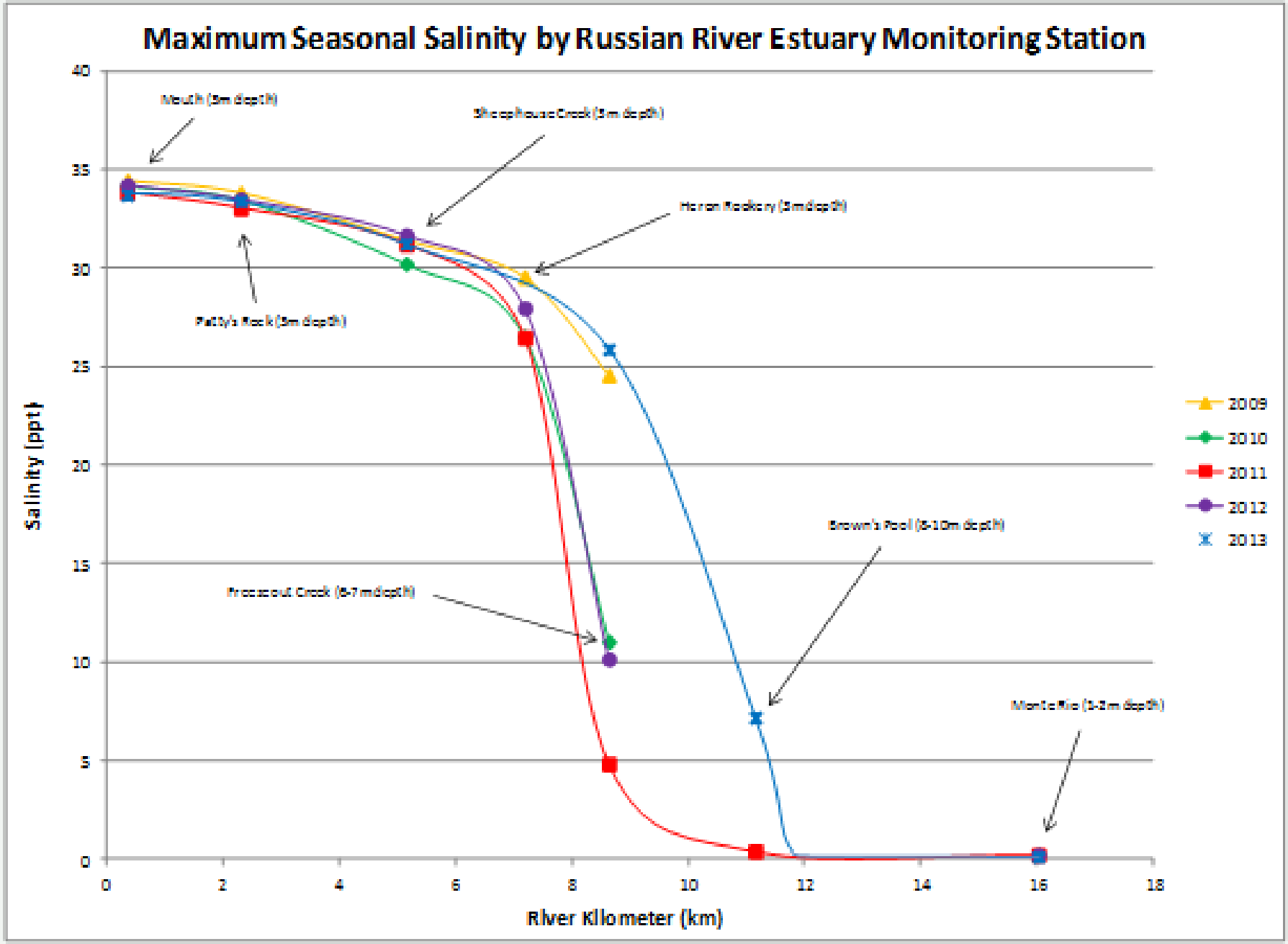
SONOMA COUNTY WATER AGENCY

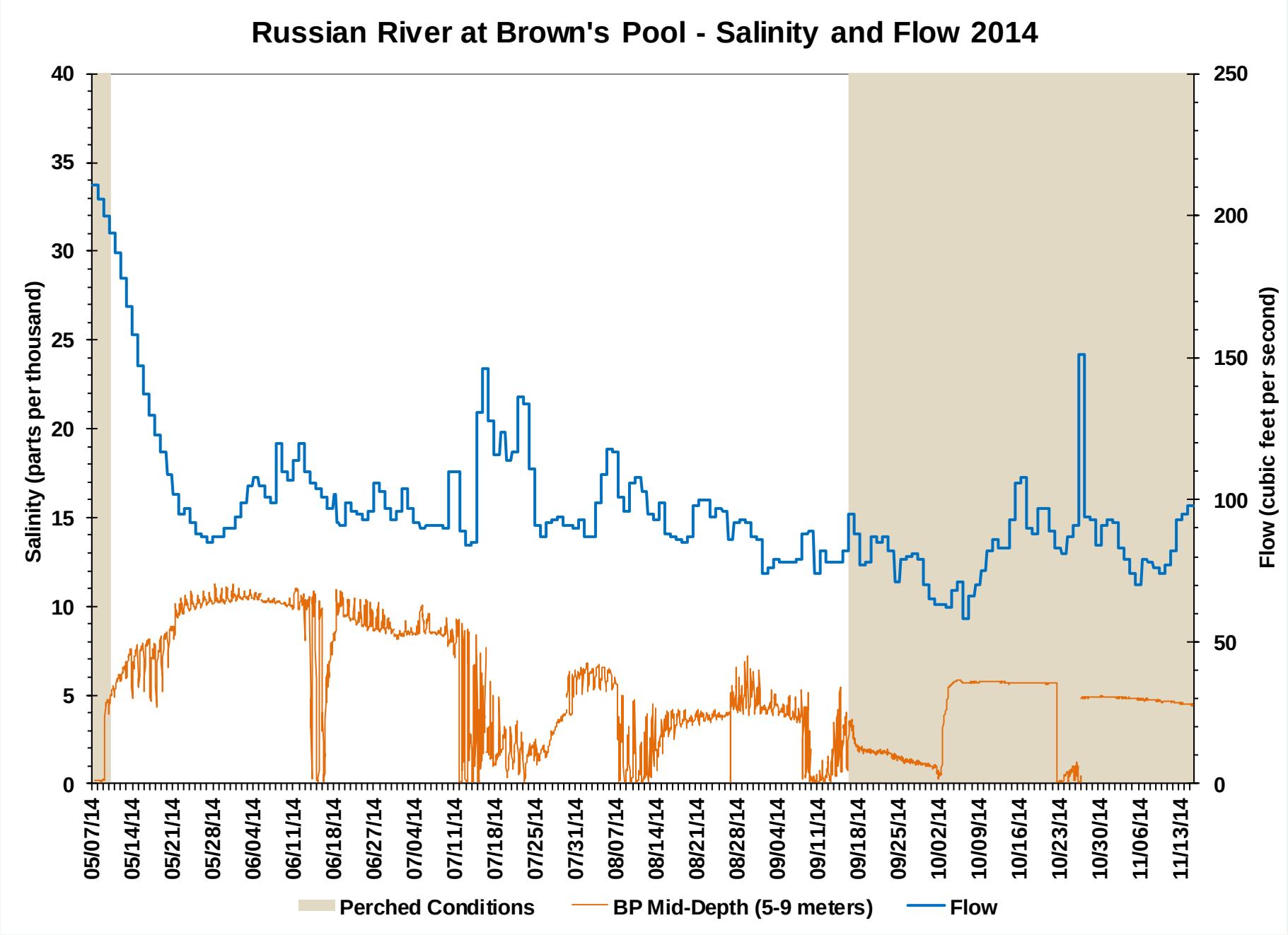


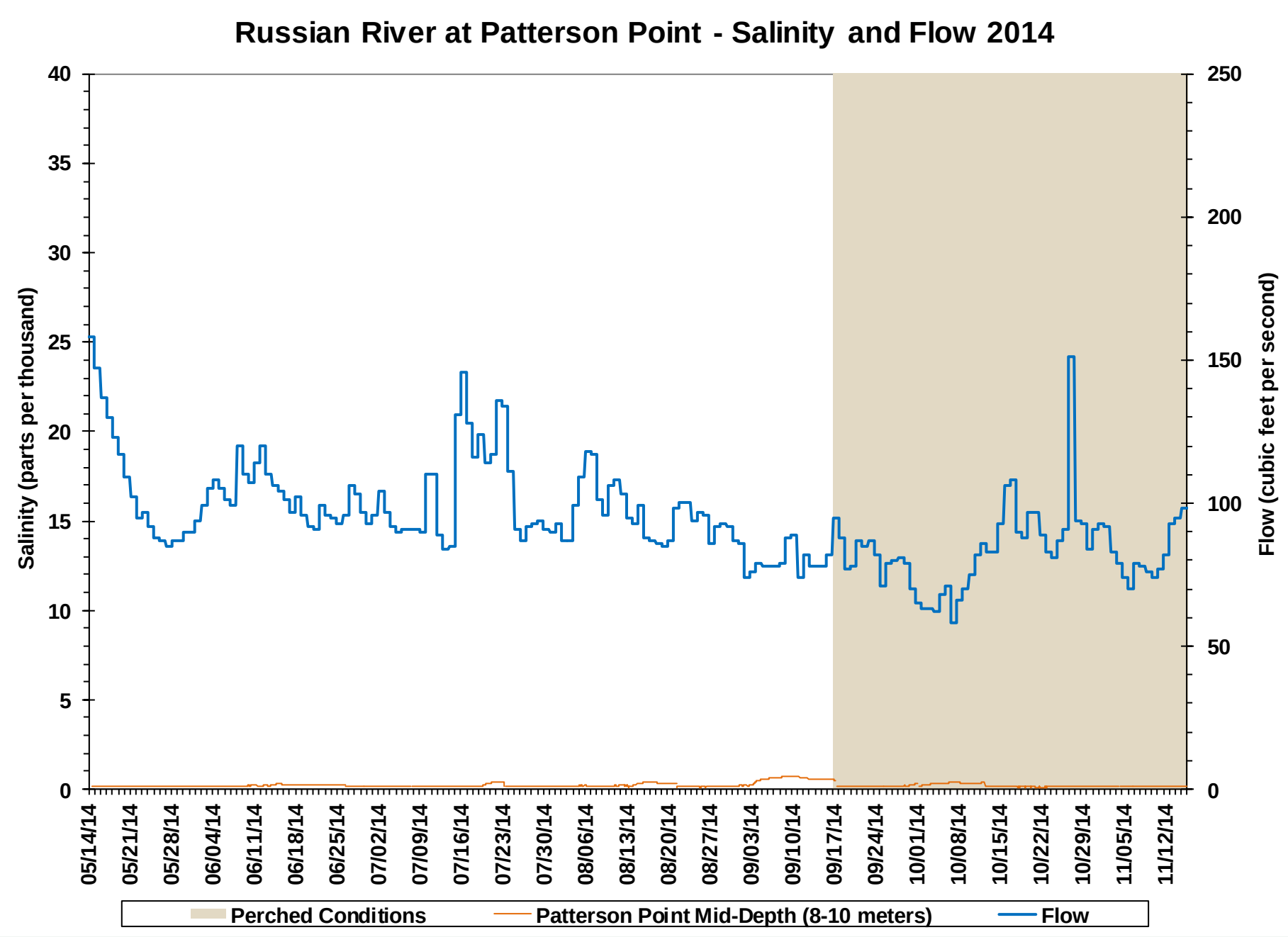
Russian River Estuary
Water Quality Monitoring Stations

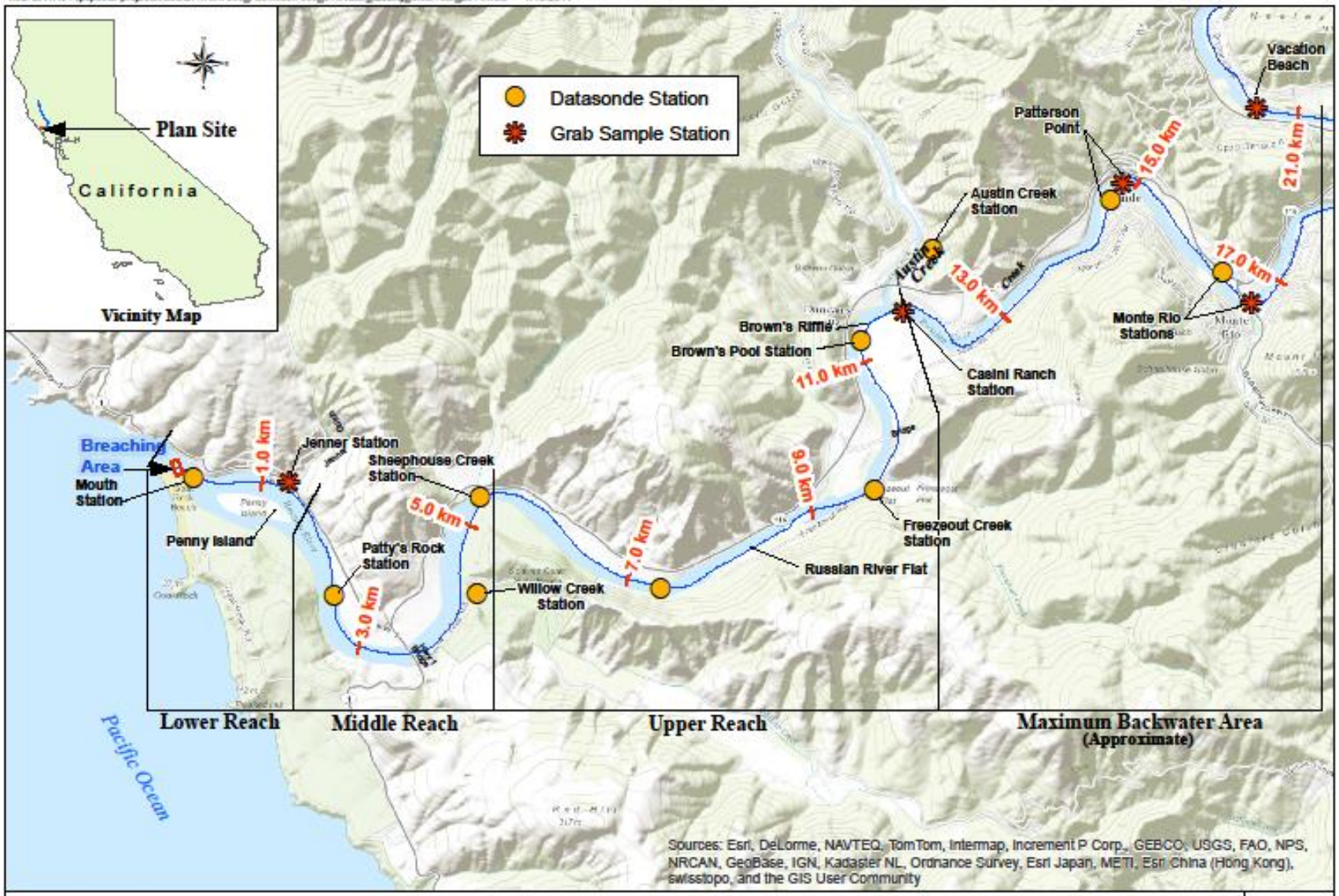
Figure 1

This Map is for general reference only.


Maximum Seasonal Salinity by Russian River Estuary Monitoring Station
Salinity (ppt)
River Kilometer (km)
Mouth (5m depth)
Sheephouse Creek (5m depth)
Heron Rookery (5m depth)
Patty's Rock (5m depth)
Brown's Pool (8-10m depth)
Freezeout Creek (6-7m depth)
Monte Rio (1-2m depth)
2009
2010
2011
2012
2013
0
5
10
15
20
25
30
35
40
0
2
4
6
8
10
12
14
16
18


Russian River at Brown's Pool - Salinity and Flow 2014
Salinity (parts per thousand)
Flow (cubic feet per second)
40
35
30
25
20
15
10
5
0
250
200
150
100
50
0
05/07/14
05/14/14
05/21/14
05/28/14
06/04/14
06/11/14
06/18/14
06/27/14
07/04/14
07/11/14
07/18/14
07/25/14
07/31/14
08/07/14
08/14/14
08/21/14
08/28/14
09/04/14
09/11/14
09/18/14
09/25/14
10/02/14
10/09/14
10/16/14
10/23/14
10/30/14
11/06/14
11/13/14
Perched Conditions
BP Mid-Depth (5-9 meters)
Flow


Russian River at Patterson Point - Salinity and Flow 2014
Salinity (parts per thousand)
Flow (cubic feet per second)
40
35
30
25
20
15
10
5
0
250
200
150
100
50
0
05/14/14
05/21/14
05/28/14
06/04/14
06/11/14
06/18/14
06/25/14
07/02/14
07/09/14
07/16/14
07/23/14
07/30/14
08/06/14
08/13/14
08/20/14
08/27/14
09/03/14
09/10/14
09/17/14
09/24/14
10/01/14
10/08/14
10/15/14
10/22/14
10/29/14
11/05/14
11/12/14
Perched Conditions
Patterson Point Mid-Depth (8-10 meters)
Flow



Russian River Estuary
Water Quality Monitoring Stations

Figure 1

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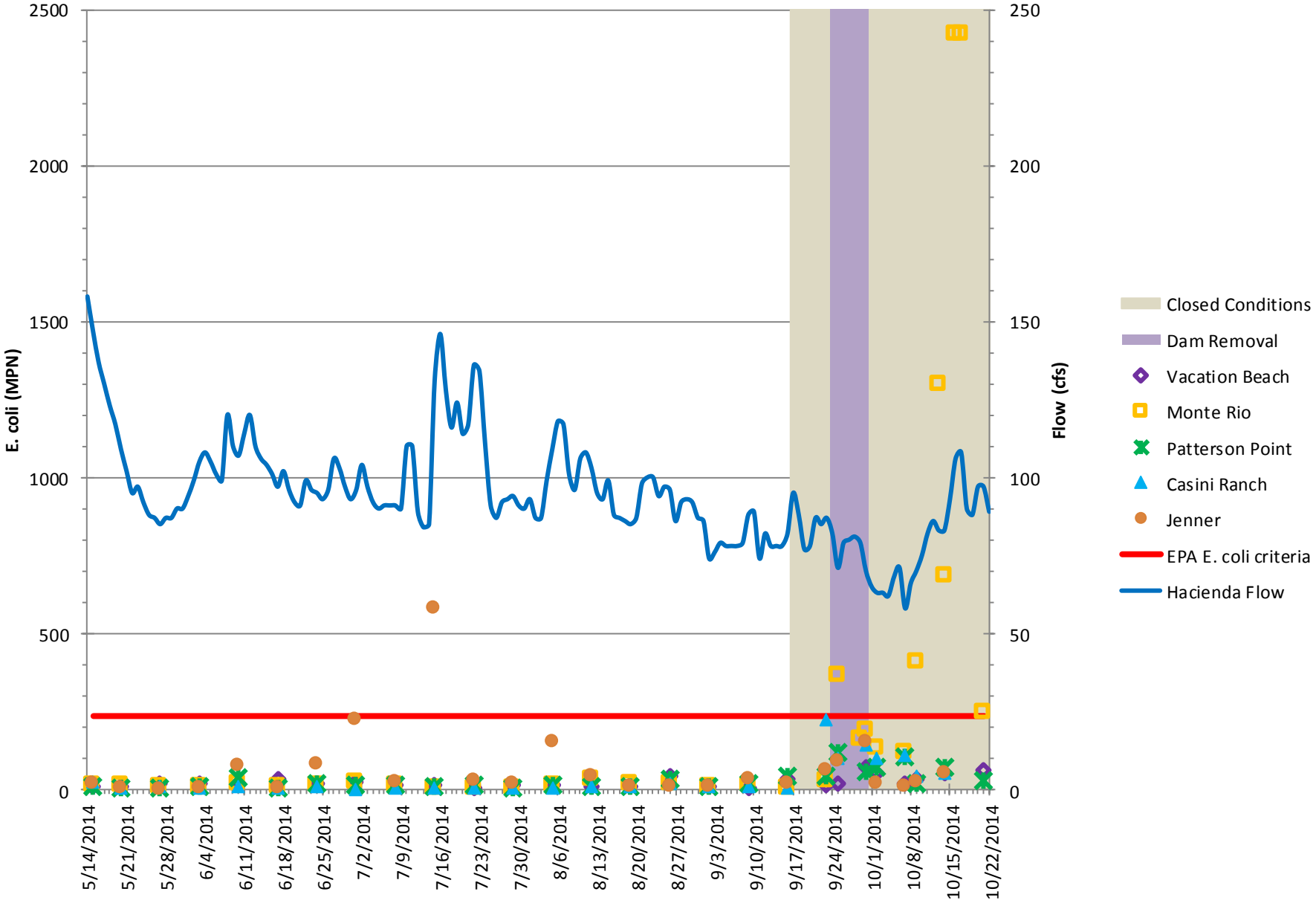
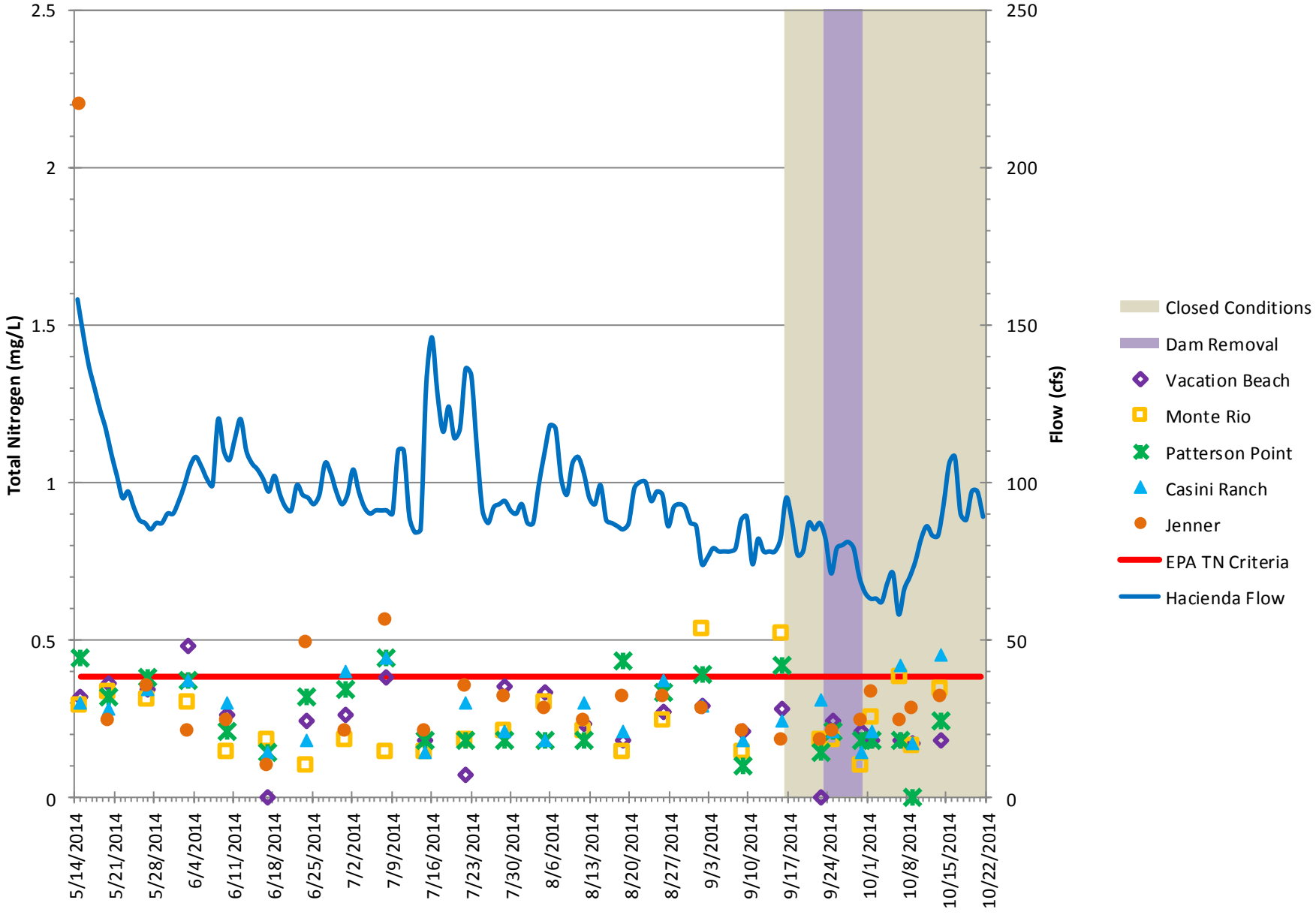
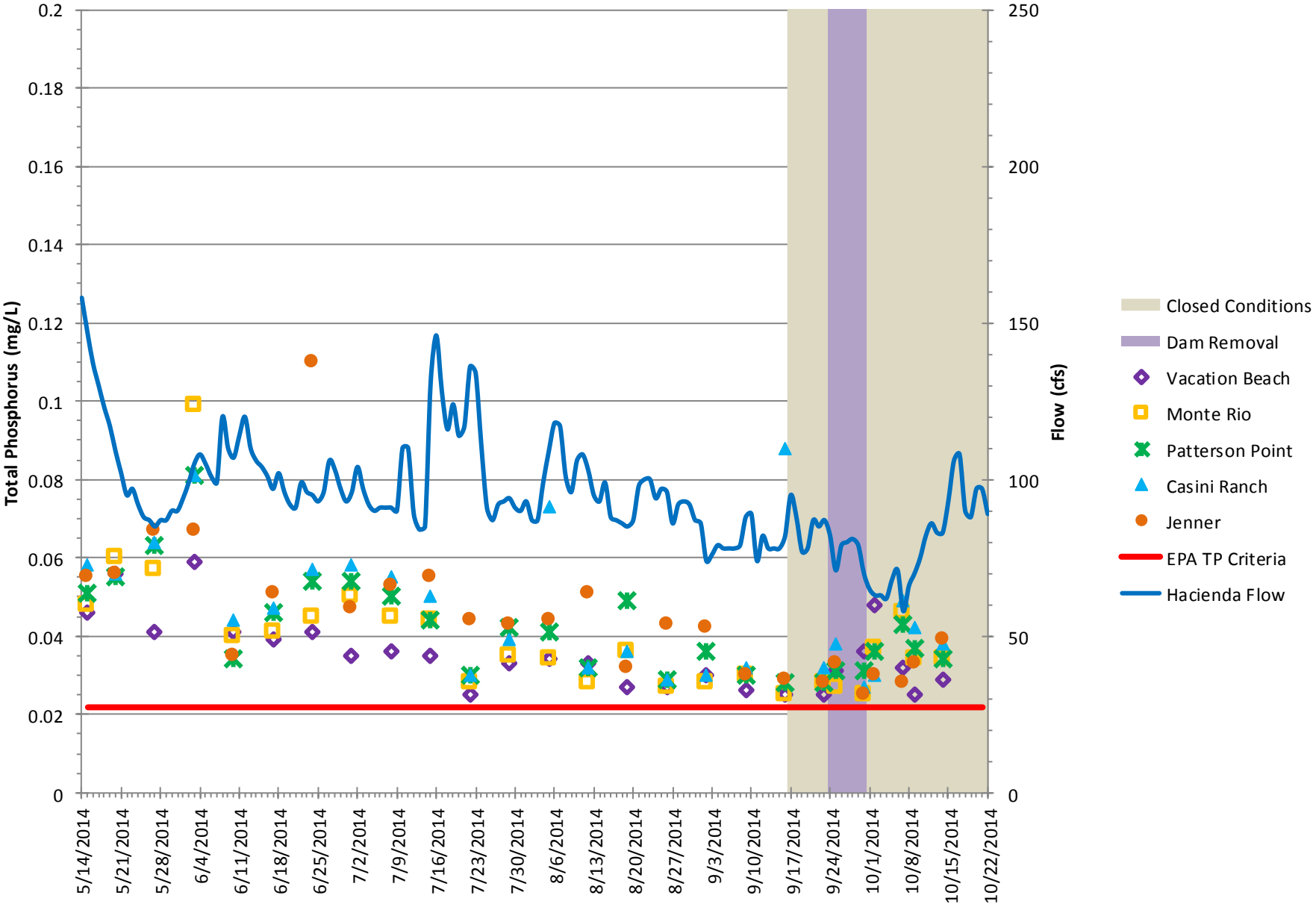
E. coli - Lower Russian River and Estuary - 2014

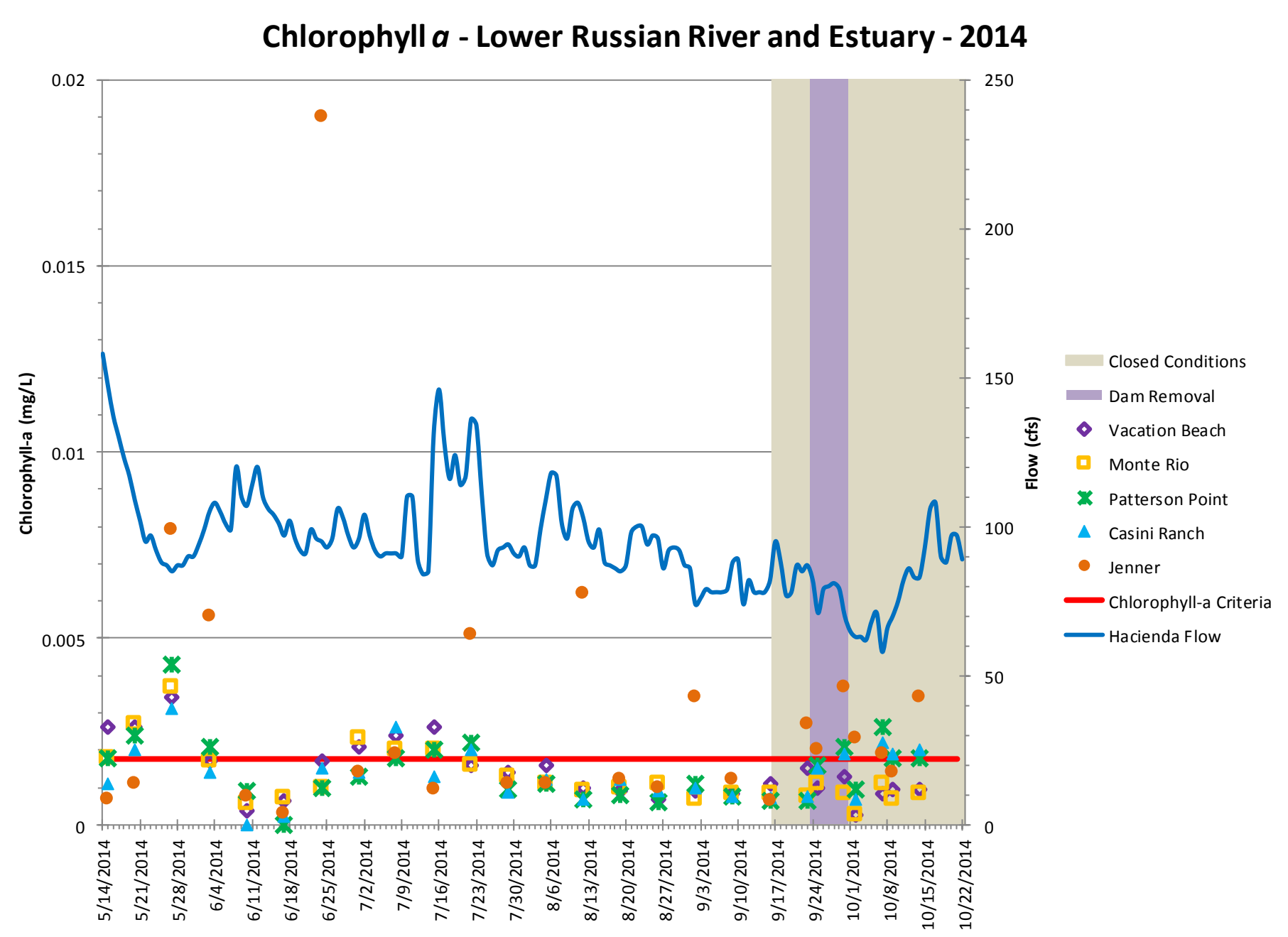


Total Nitrogen - Lower Russian River and Estuary - 2014

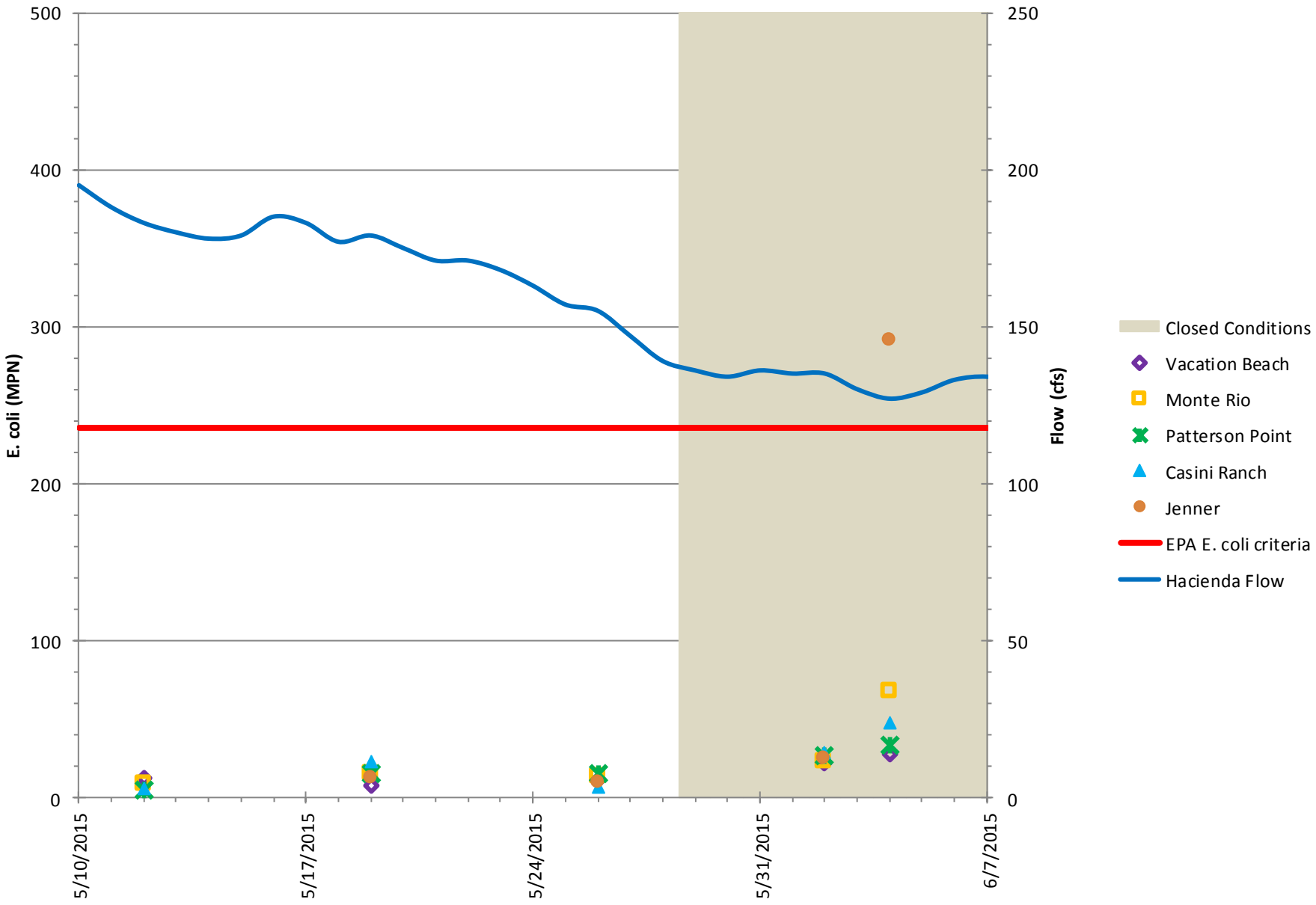


Total Phosphorus - Lower Russian River and Estuary - 2014




Chlorophyll *a* - Lower Russian River and Estuary - 2014
Chlorophyll-a (mg/L)
0.02
0.015
0.01
0.005
0
Flow (cfs)
250
200
150
100
50
0
5/14/2014
5/21/2014
5/28/2014
6/4/2014
6/11/2014
6/18/2014
6/25/2014
7/2/2014
7/9/2014
7/16/2014
7/23/2014
7/30/2014
8/6/2014
8/13/2014
8/20/2014
8/27/2014
9/3/2014
9/10/2014
9/17/2014
9/24/2014
10/1/2014
10/8/2014
10/15/2014
10/22/2014
Closed Conditions
Dam Removal
Vacation Beach
Monte Rio
Patterson Point
Casini Ranch
Jenner
Chlorophyll-a Criteria
Hacienda Flow

E. coli - Lower Russian River and Estuary - 2015



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