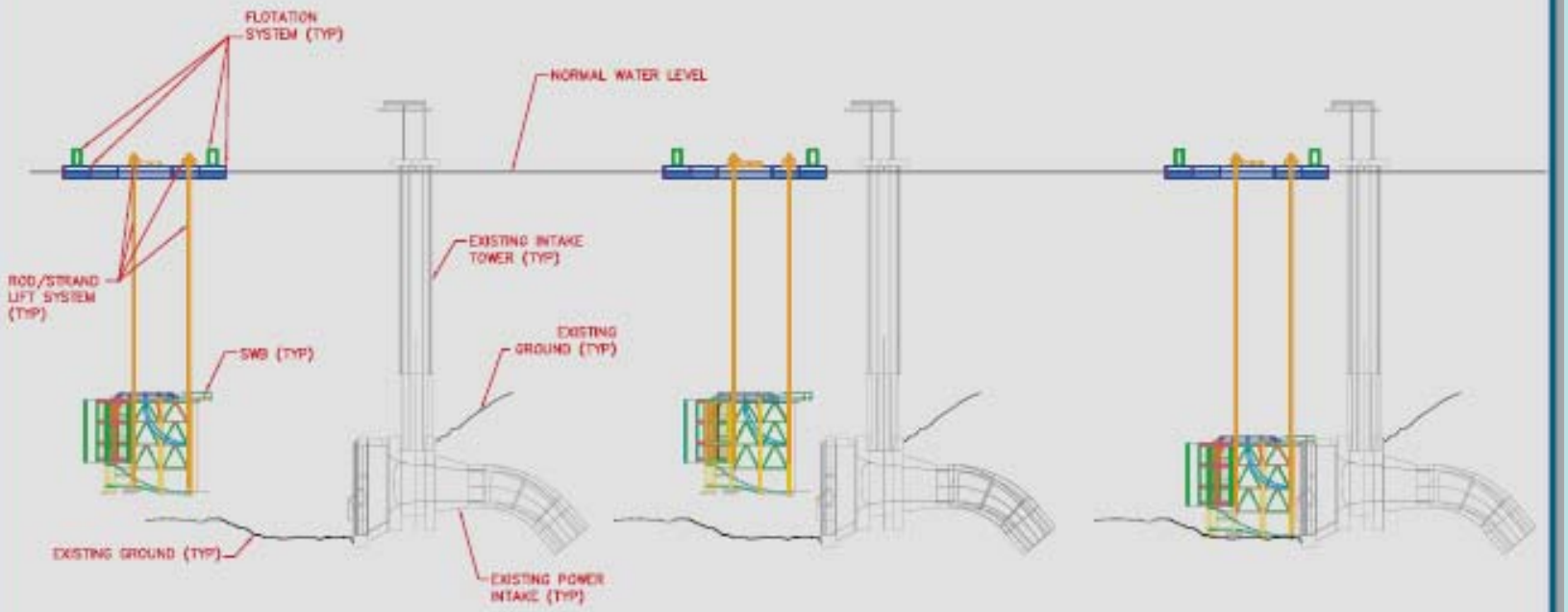
SWB Progression

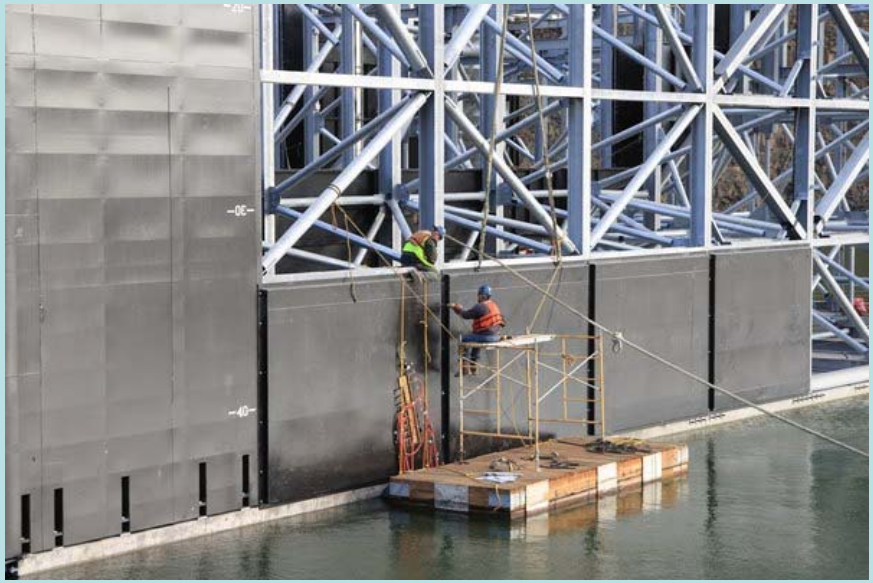
Total Weight of SWB = 1.33 Million pounds

SWB Pushing Out

LOWER SWB & CONNECT TO INTAKE

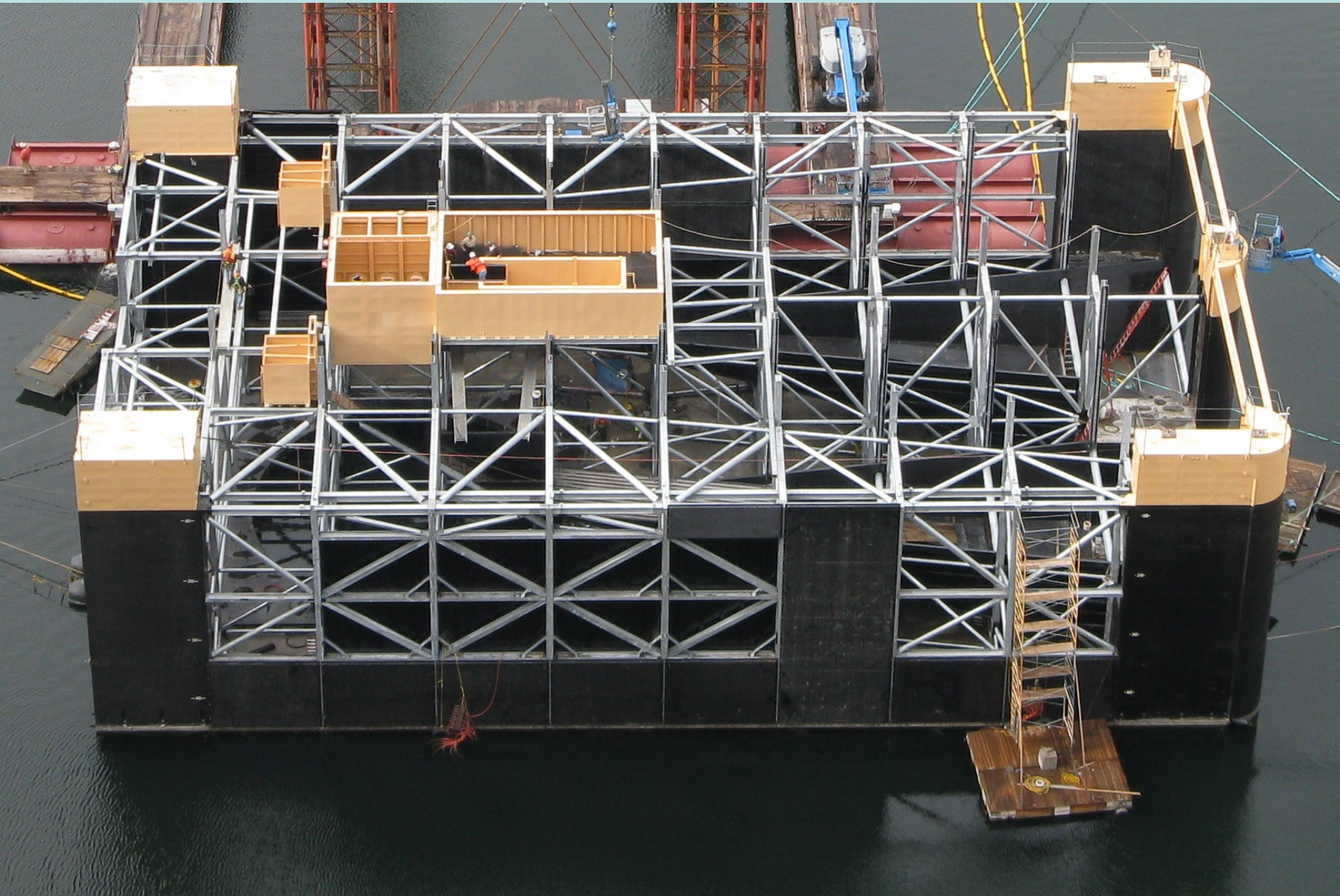


SWT Progression



- 2.5 Million pounds of steel
- Total Weight ~ 5 Million pounds

SWT – 11-6-08



SWT – 12/2/08

SWT – 1/11/09


2/12/2009

VFC Fabrication

VFC Section On-site


MAR 18 2009

VFC Construction

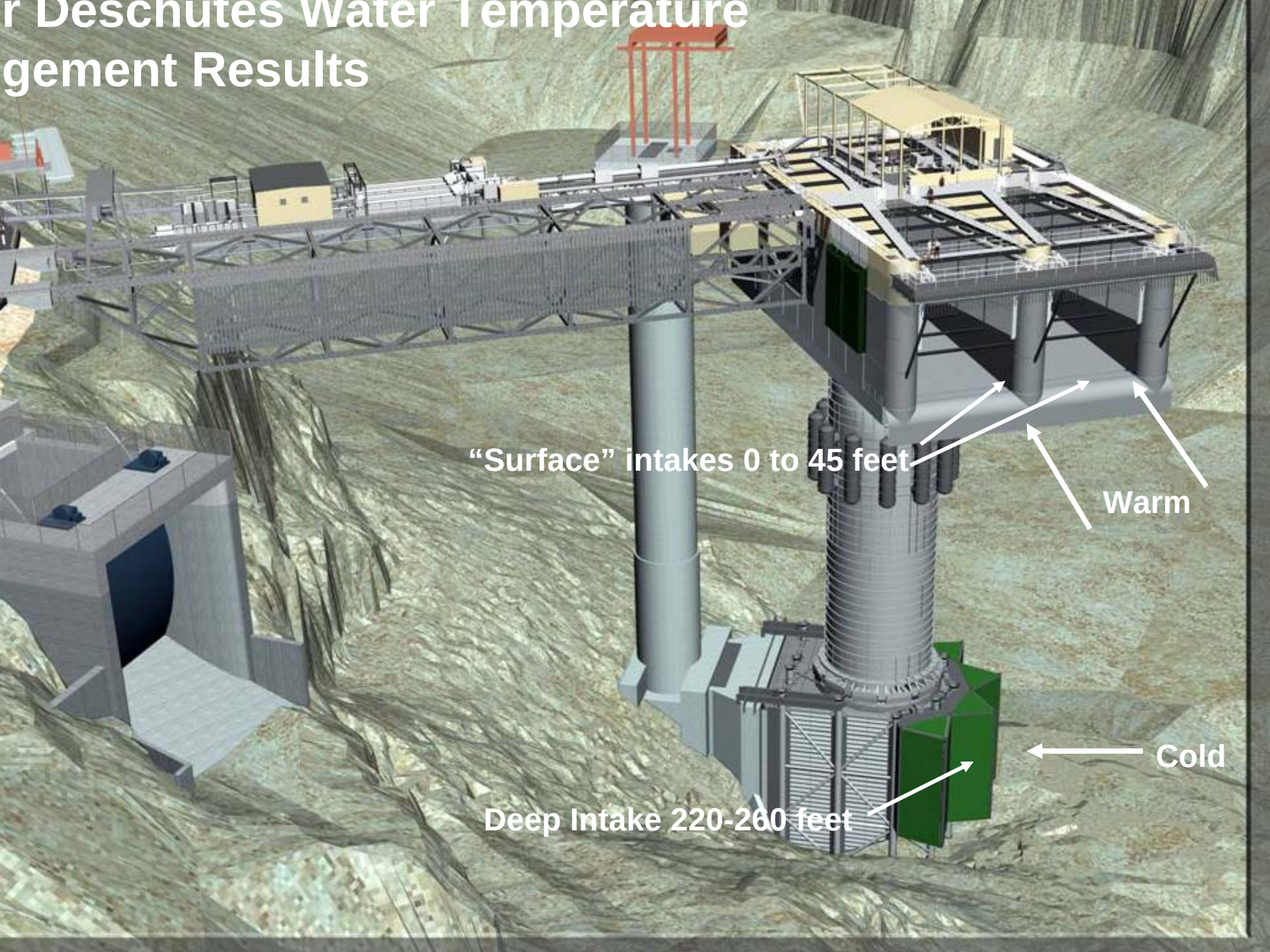
VFC With Buoyancy Tanks

VFC Construction

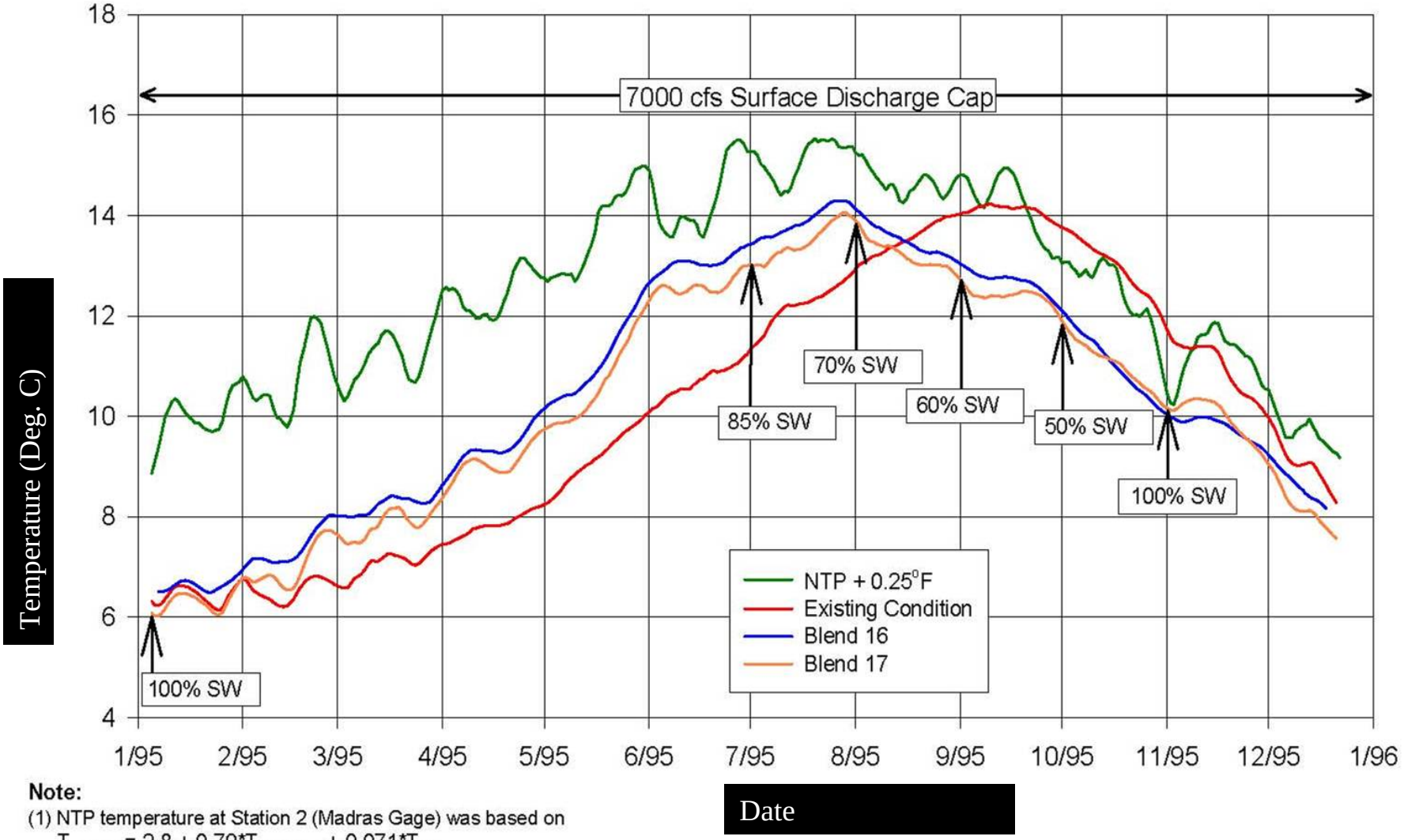
Lessons Learned

- Design
  - Maintenance Emphasis
    - Maintenance in the dry
    - Don’t recreate the wheel – use off the shelf items
- Maintenance
  - Get involved early!
    - Specifications and submittal review
  - Parts and O&M manuals
    - Know what you want and have a system for receiving
- Operations
  - Get involved early!
    - Training and Operating Procedures

r Deschutes Water Temperature
gement Results



Deschutes River Temperatures at Madras Gage



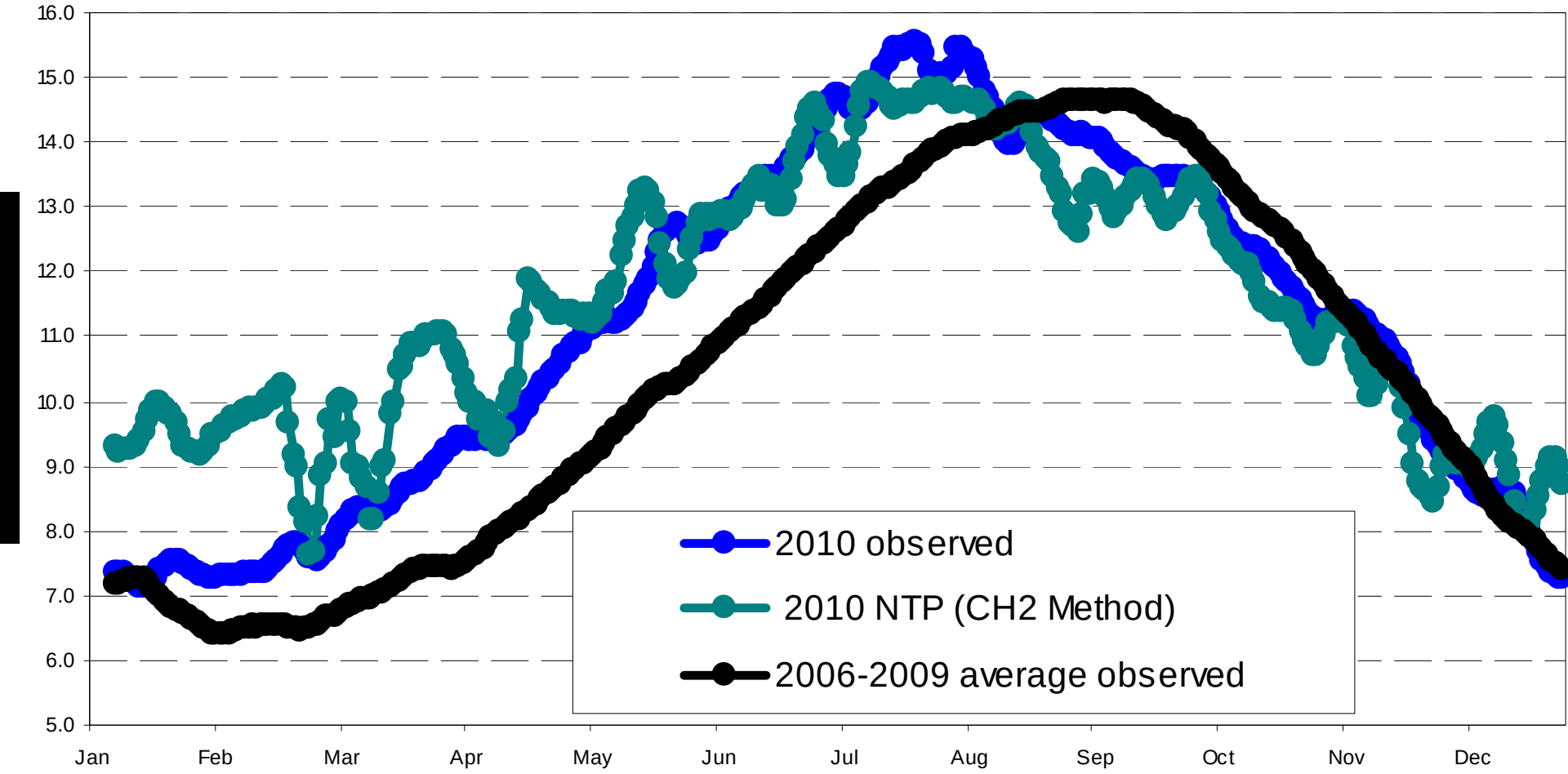
Note:

(1) NTP temperature at Station 2 (Madras Gage) was based on
$T_{station2} = 2.8 + 0.79*T_{LBCInflow} + 0.071*T_{Air}$,
(Huntington, Hardin, and Raymond (April 1999))

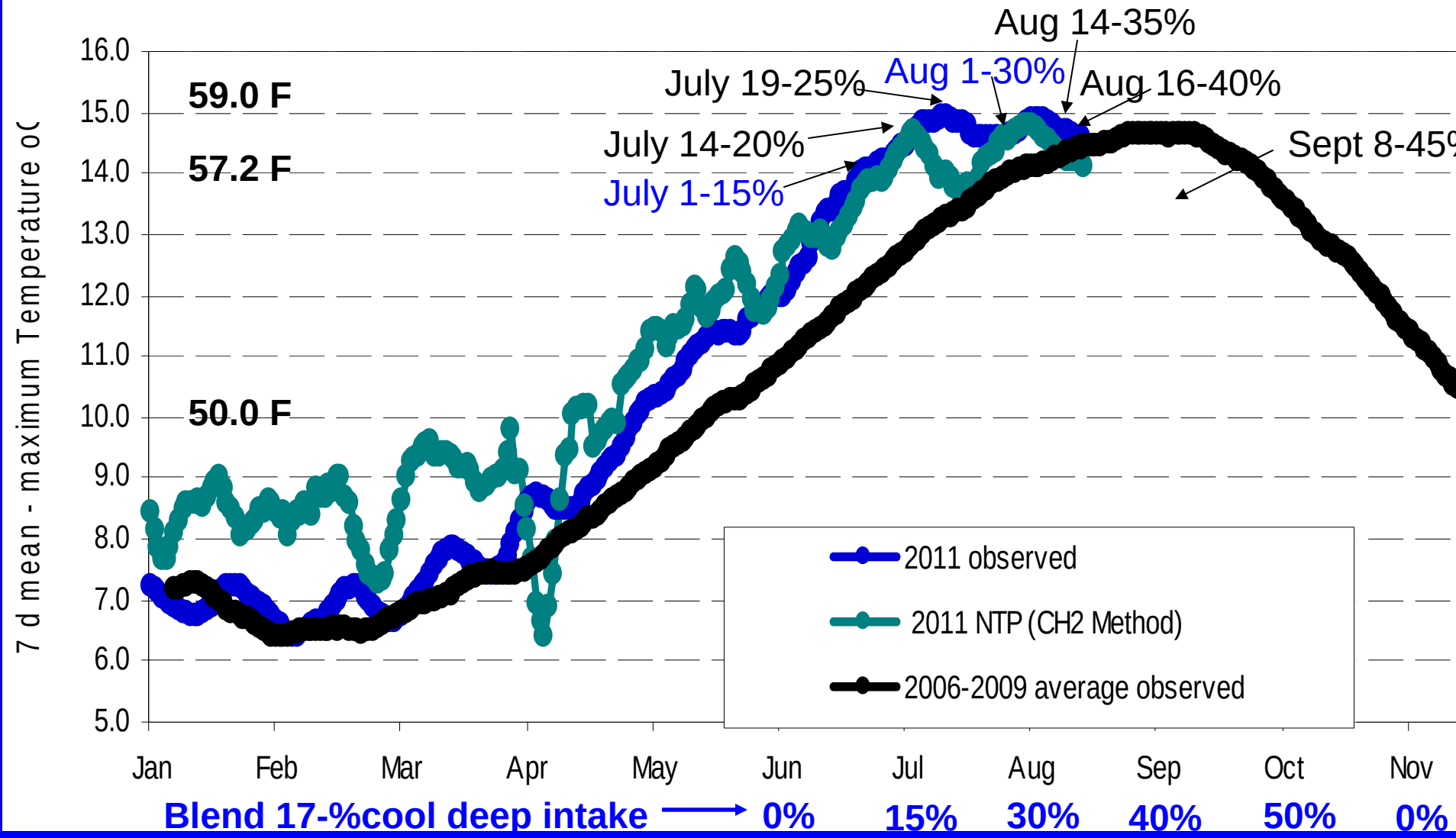
(2) Rereg regession between Station 3 (Lake Simtustus tailrace) and Station 2 (Madras Gage) for Blend 17 is
$T_{station2} = 1.0339*T_{station3} - 0.235$

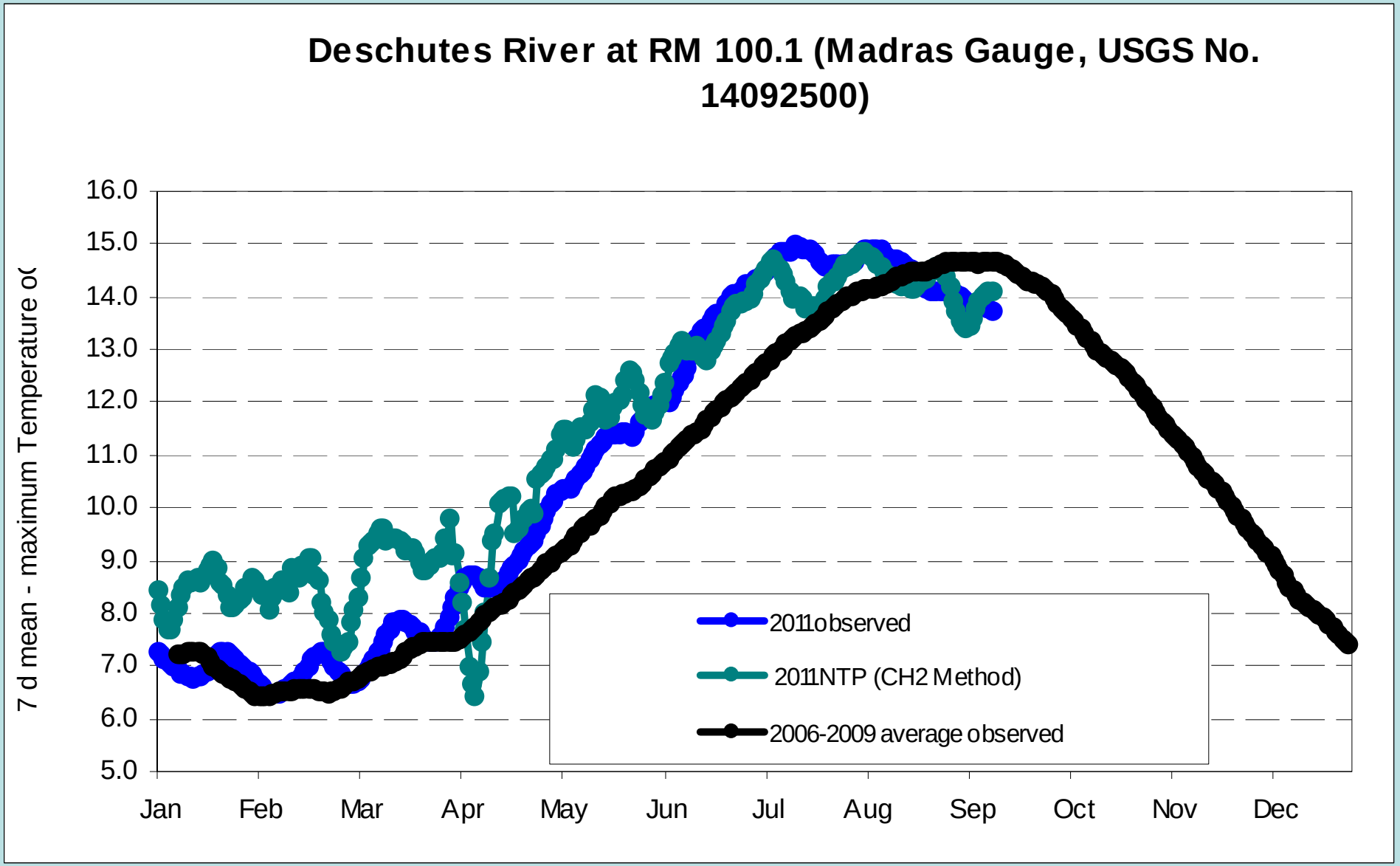
(3) 7DADM - 7-day average of daily maximum

Deschutes River at RM 100.1 (Madras Gauge, USGS No. 14092500)



Deschutes River at RM 100.1 (Madras Gauge, USGS No. 14092500)




Deschutes River at RM 100.1 (Madras Gauge, USGS No. 14092500)
7 d mean - maximum Temperature oC
16.0
15.0
14.0
13.0
12.0
11.0
10.0
9.0
8.0
7.0
6.0
5.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
2011observed
2011NTP (CH2 Method)
2006-2009 average observed

Initial Downstream Fish Passage Results

Yearling *O. nerka* “sockeye” smolts

Round Butte SWW Fish Capture and Fish Transfer Facilities

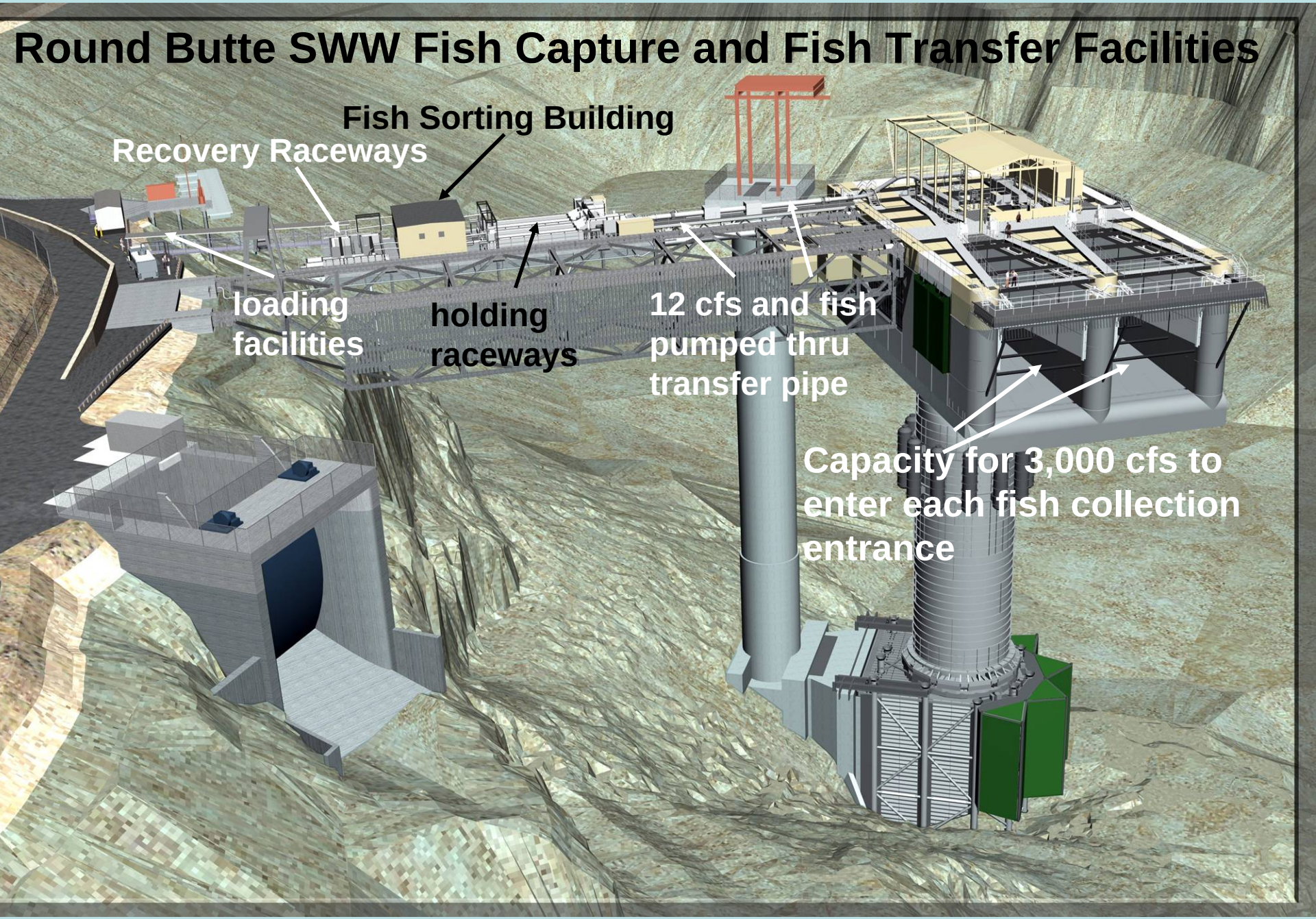


Table 1a. Catch of anadromous and adfluvial salmonid species at the Round Butte Fish Transfer Facility through July 31, 2010.

SPECIES BY GROUP	2010 TOTAL THROUGH JULY	2011 TOTAL THROUGH JUNE 30	2011 PASSED DN STRM JUNE 30
Native Anadromous Species			
Spring Chinook Smolts	41,875	28,450	28,017
Yearling *O. nerka* (sockeye)	49,712	225,567	220,459
Steelhead Smolts	7,730	10,547	10,394
Native Adfluvial Species			
Bull Trout	348	748	230
Age 2 & older *O. nerka* (kokanee)	17,874	175,019	0