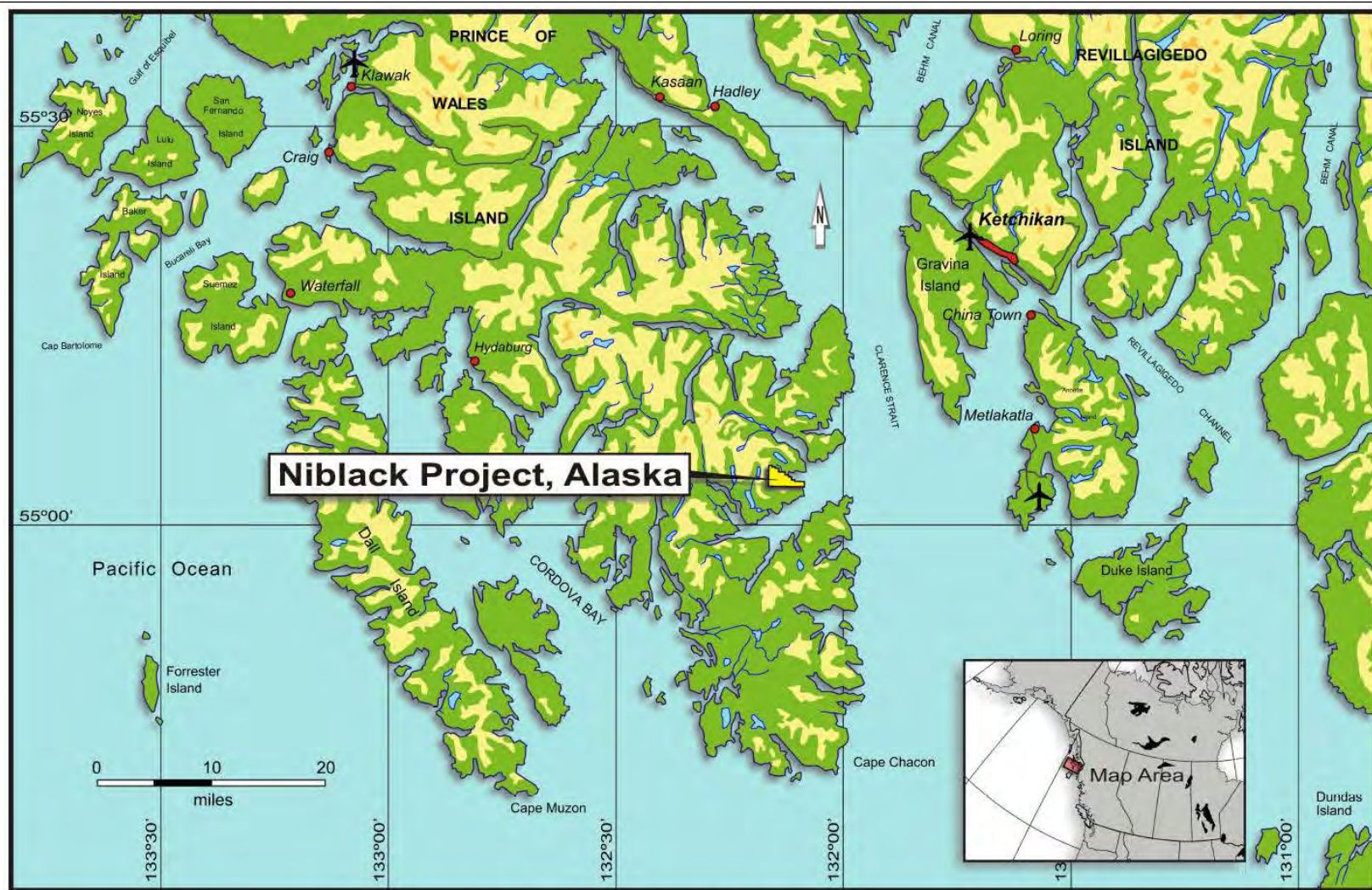
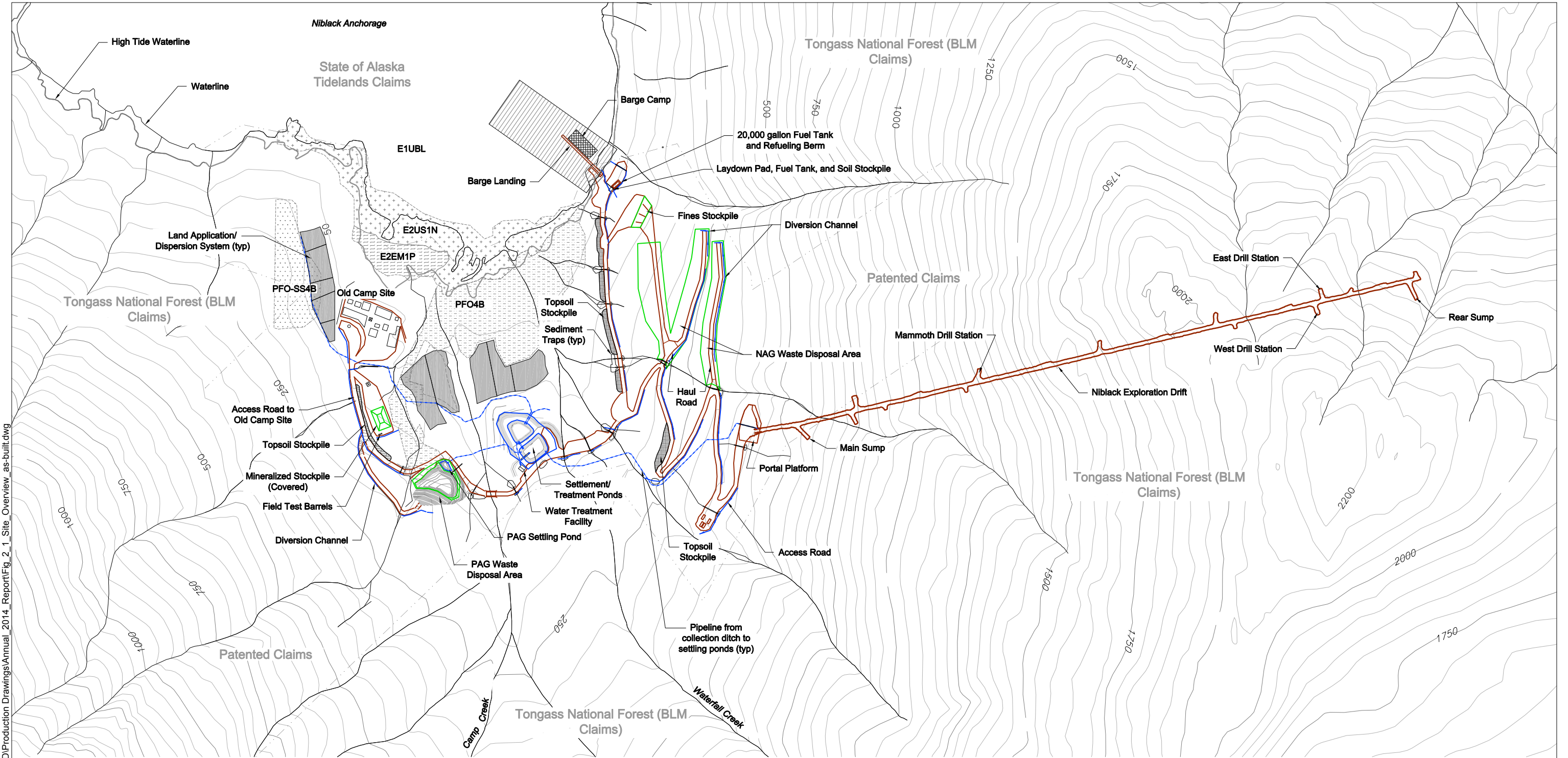


FIGURES



Niblack Project Location Map

May, 2006



LEGEND

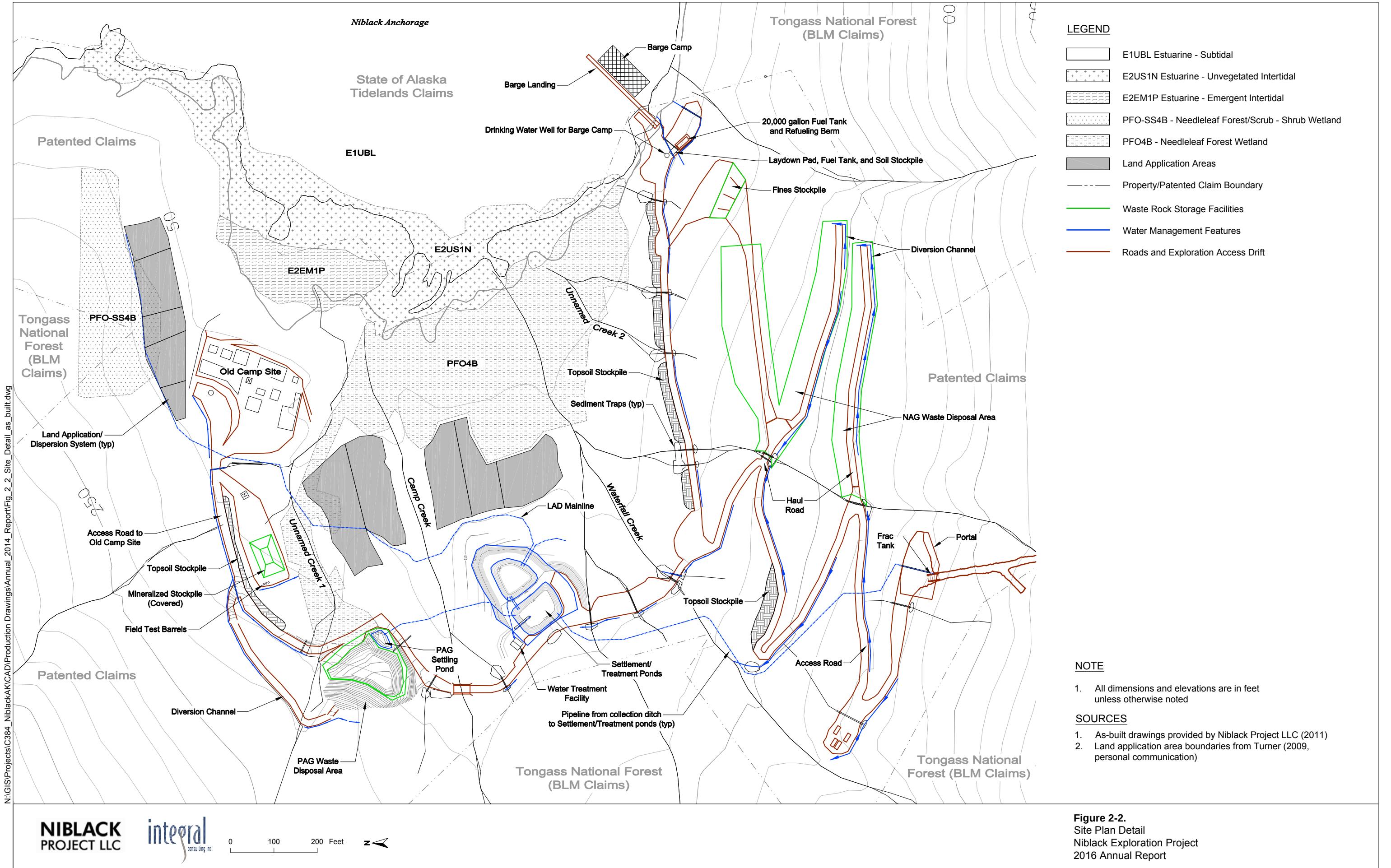
	E1UBL Estuarine - Subtidal		PFO4B - Needleleaf Forest Wetland		Waste Rock Storage Facilities
	E2US1N Estuarine - Unvegetated Intertidal		Land Application Areas		Water Management Features
	E2EM1P Estuarine - Emergent Intertidal		Tideland Lease Area		Roads and Exploration Access Drift
	PFO-SS4B - Needleleaf Forest/Scrub - Shrub Wetland		Property/Patented Claim Boundary		

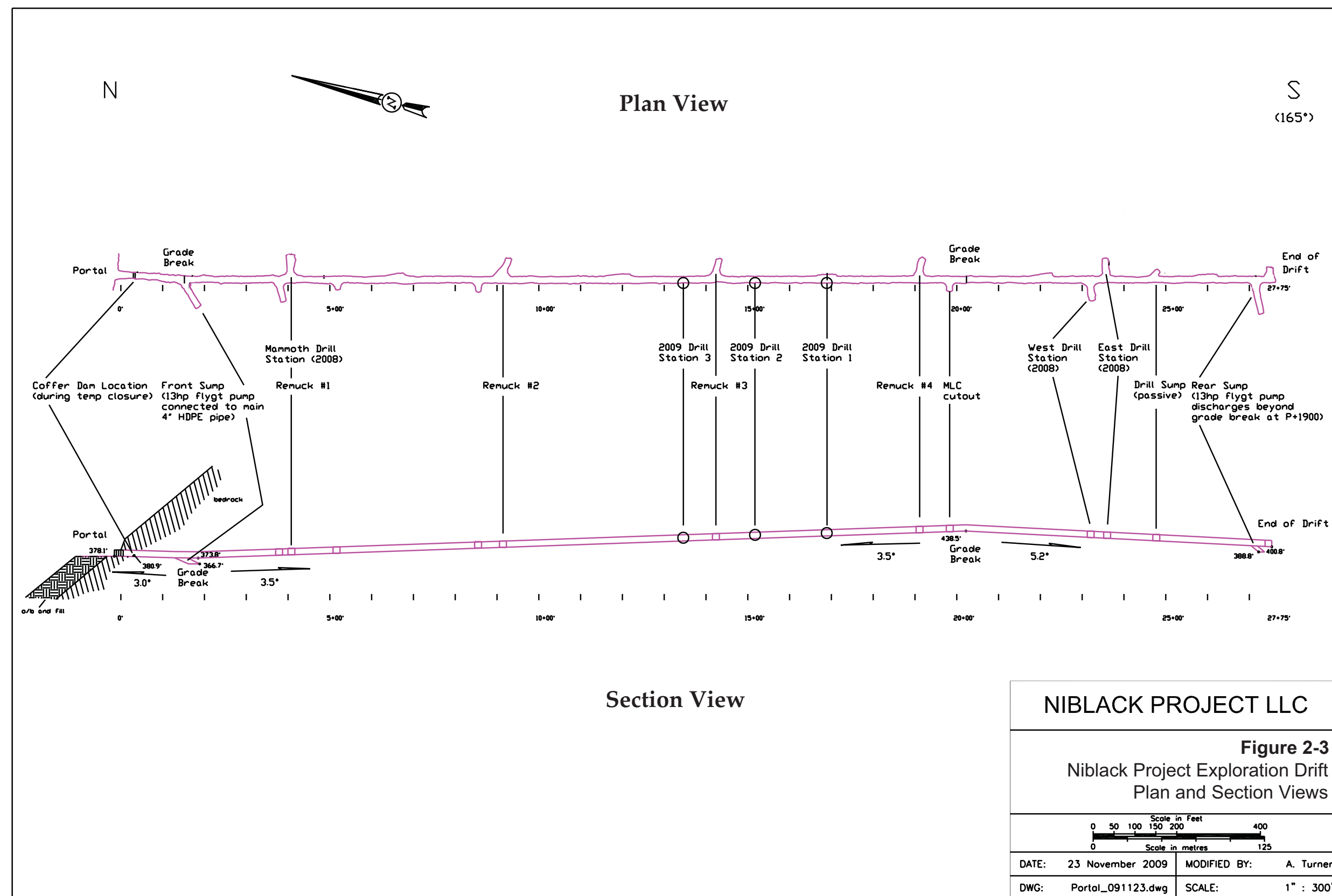
NOTE

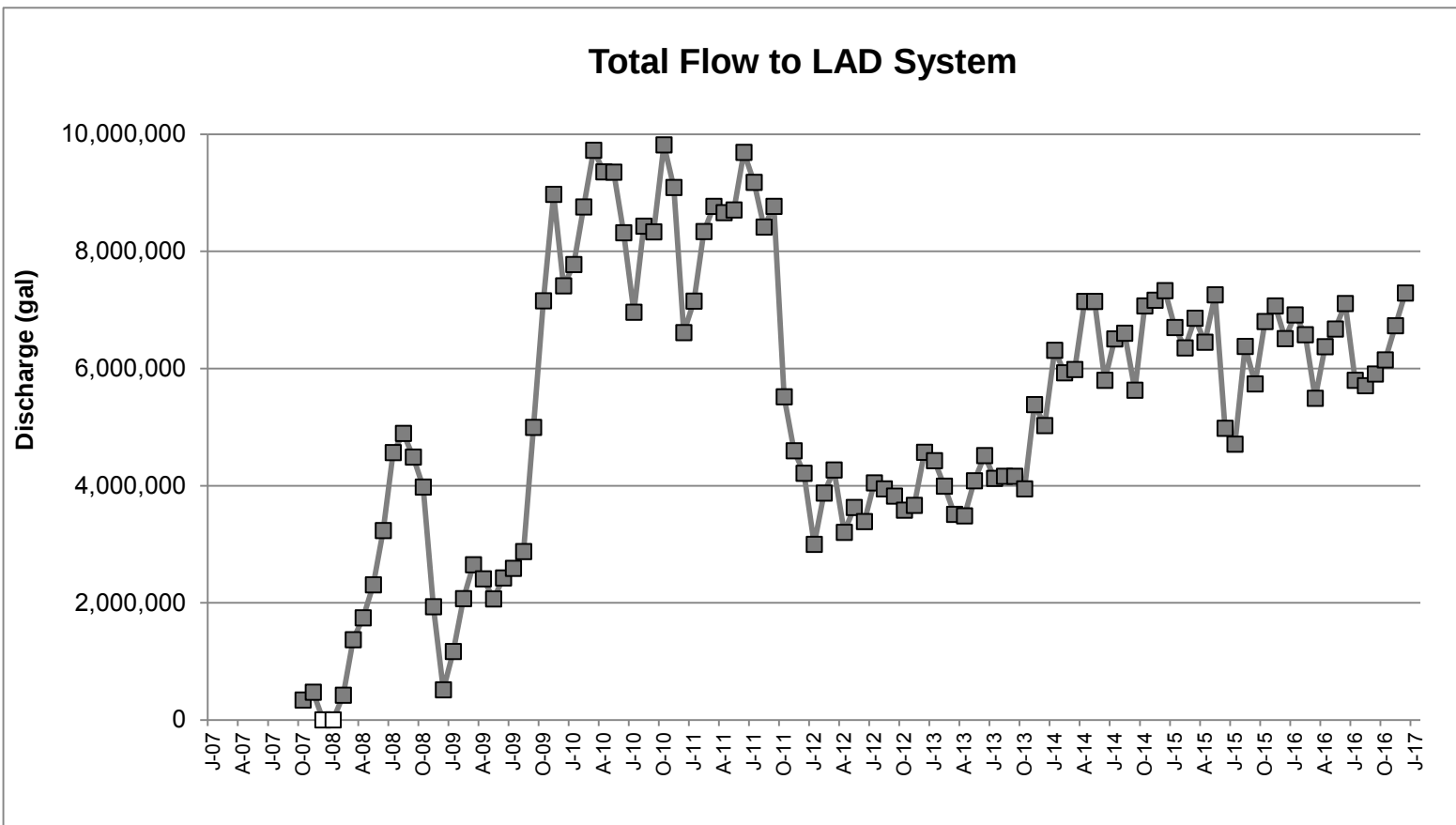
1. All dimensions and elevations are in feet unless otherwise noted

SOURCES

1. As-built drawings provided by Niblack Project LLC (2011)
2. Land application area boundaries from Turner (2009, personal communication)







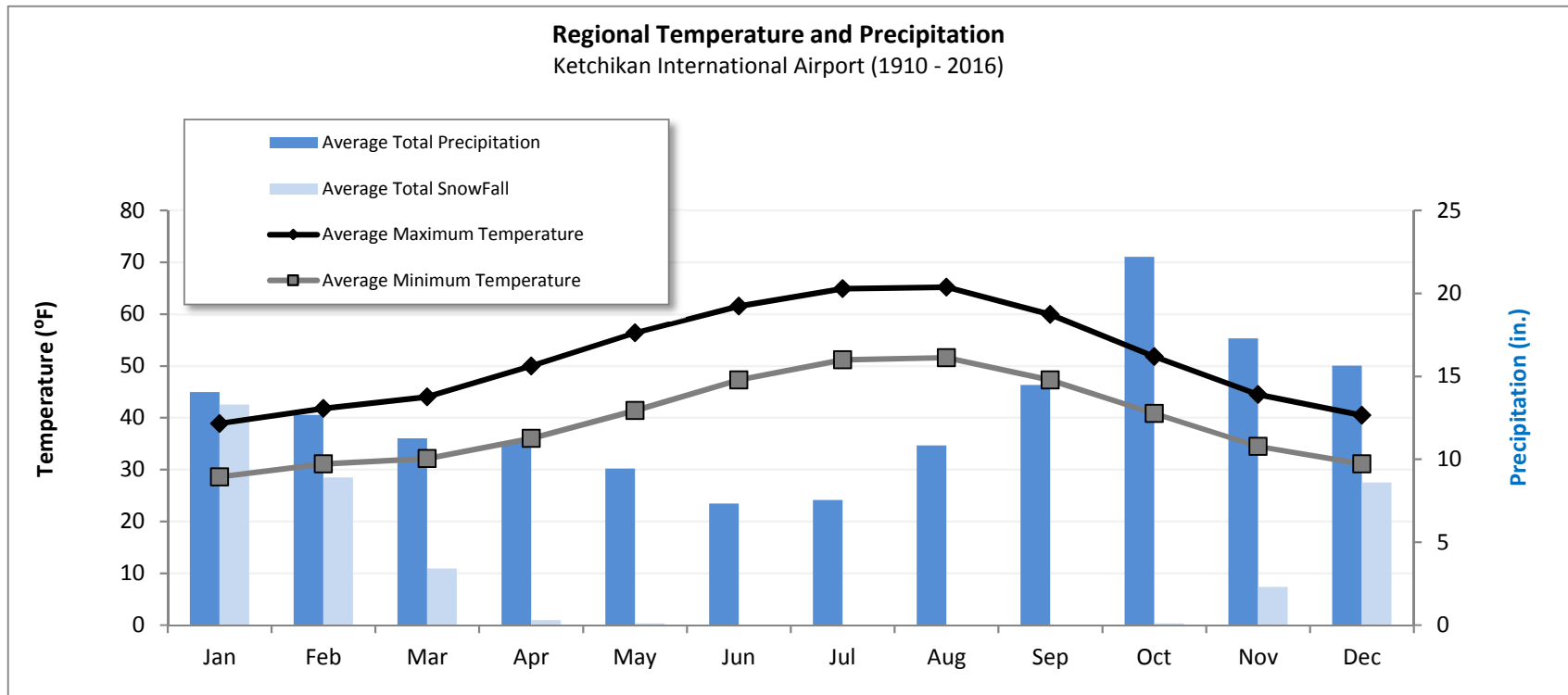
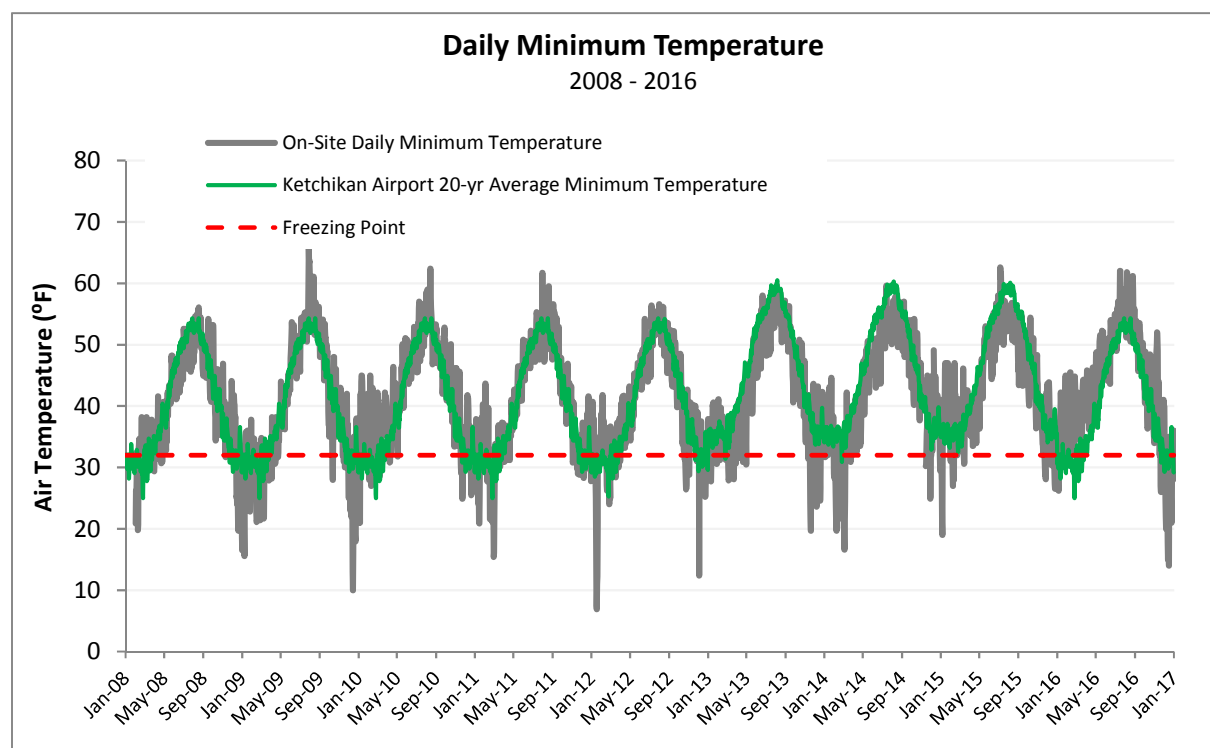
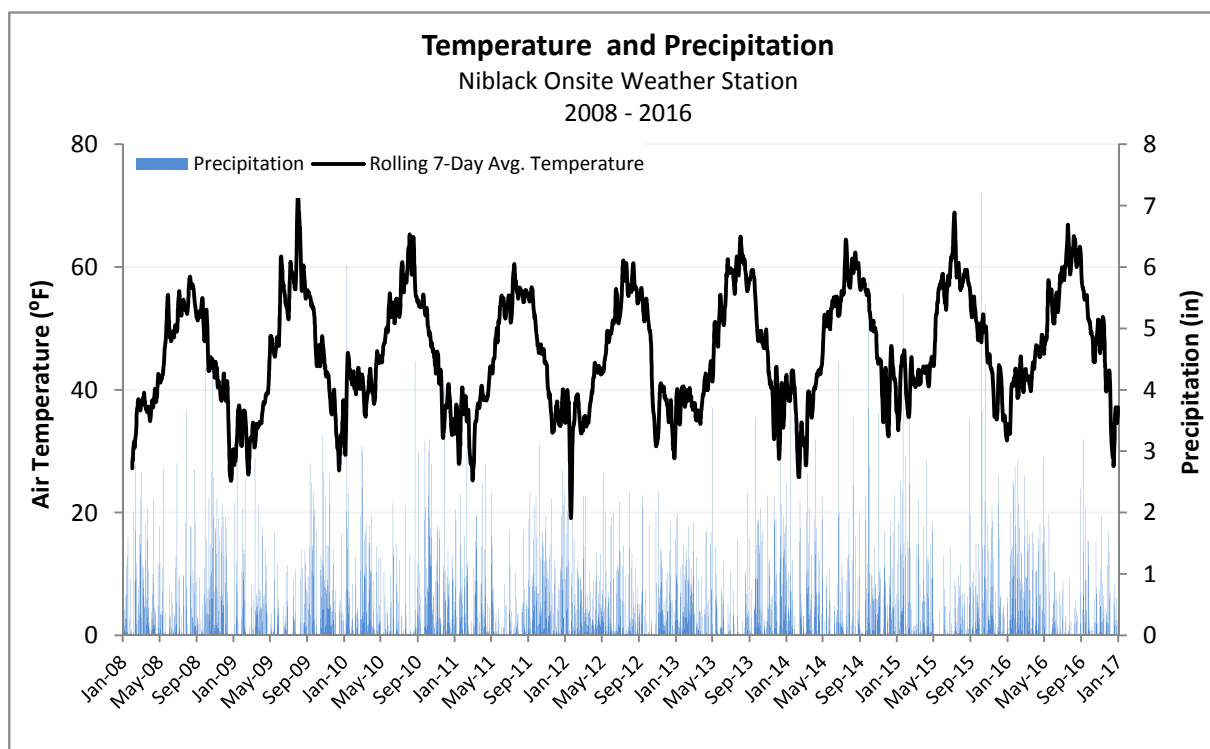
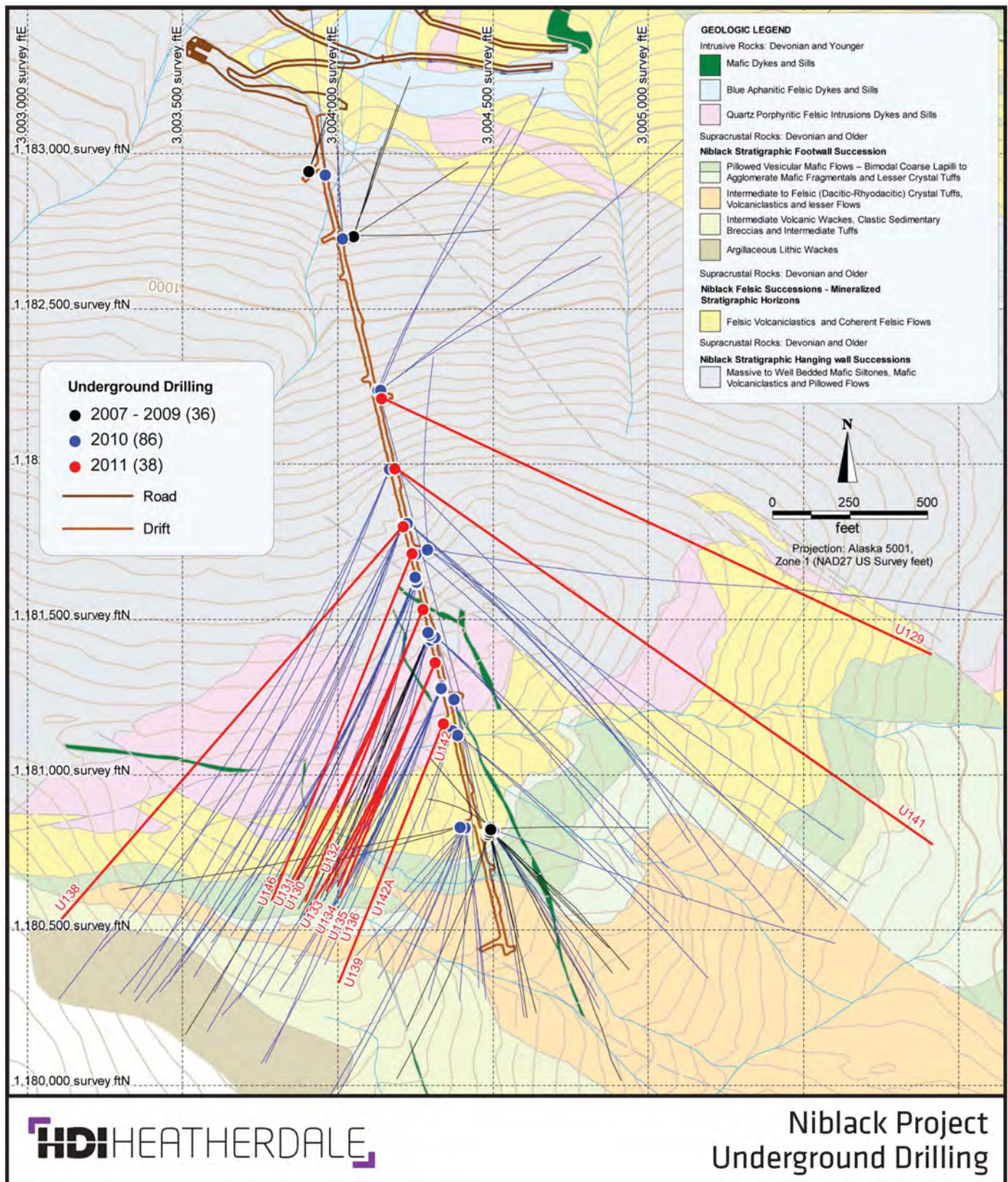


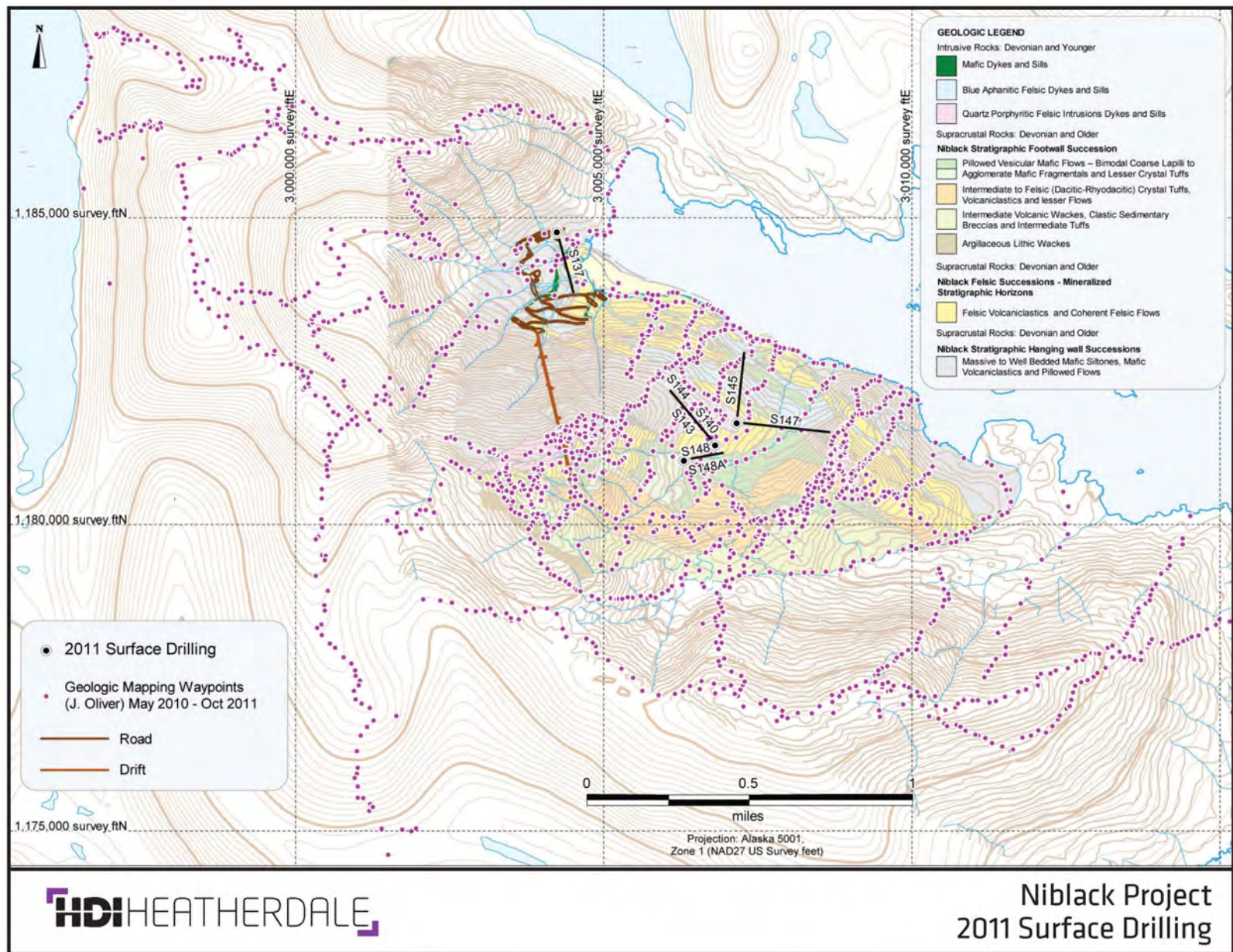
Figure 2-5
Ketchikan Long-Term Average
Temperature and Precipitation Data
Niblack Exploration Project
2016 Annual Report



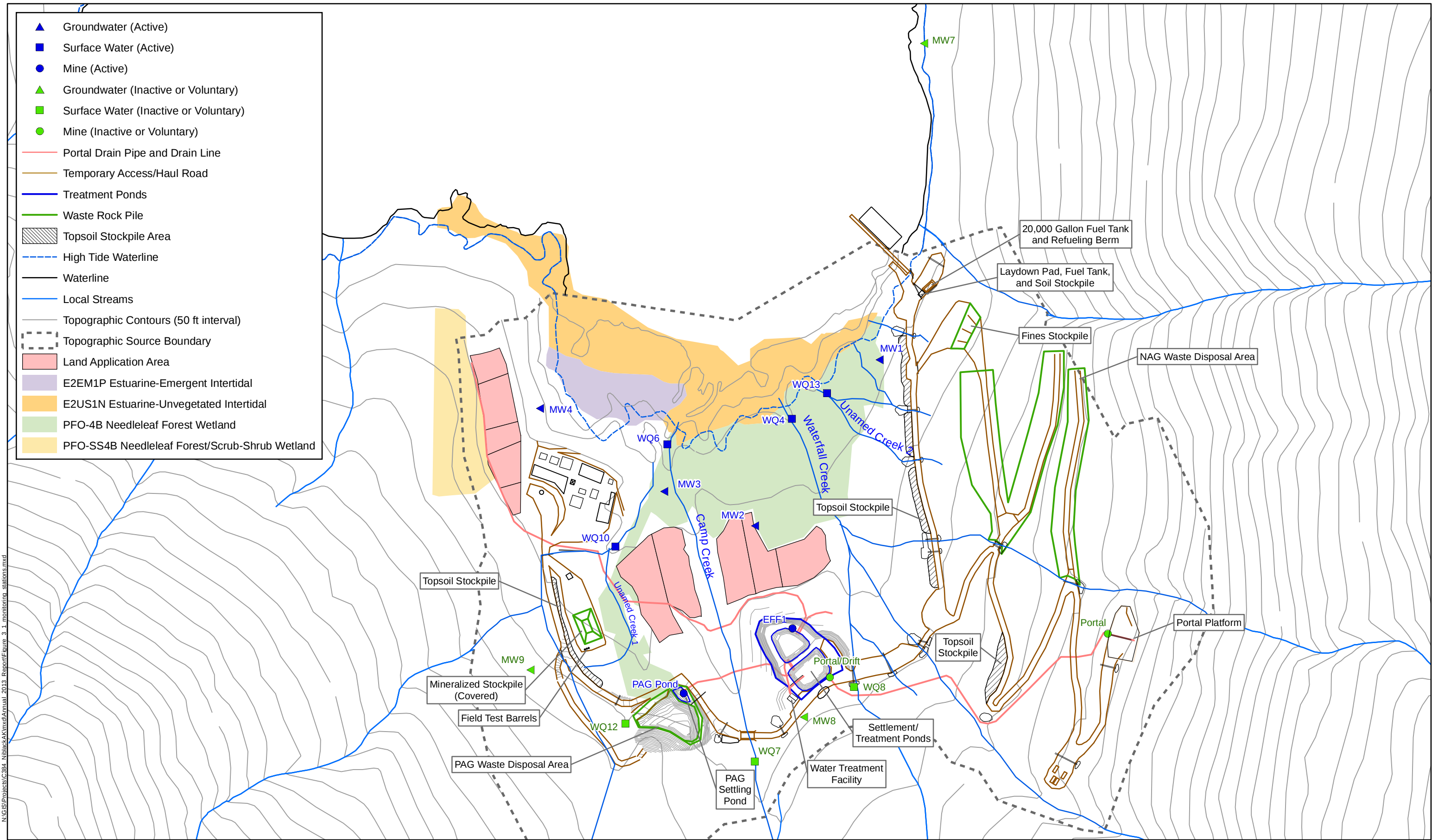
Note: Onsite weather station was not available from 9/18/2009–2/28/2010, and several periods during 2012, 2014 and 2015 due to instrument malfunction; daily records for the Ketchikan Airport NOAA weather station are shown for these time periods. Onsite weather station was not available 6/15/2017–8/2/2017 and 10/16/2017–12/31/2017 due to on-site instrument malfunction; daily records from Annette NOAA weather station are shown for these time periods.



Source: Heatherdale (2011)

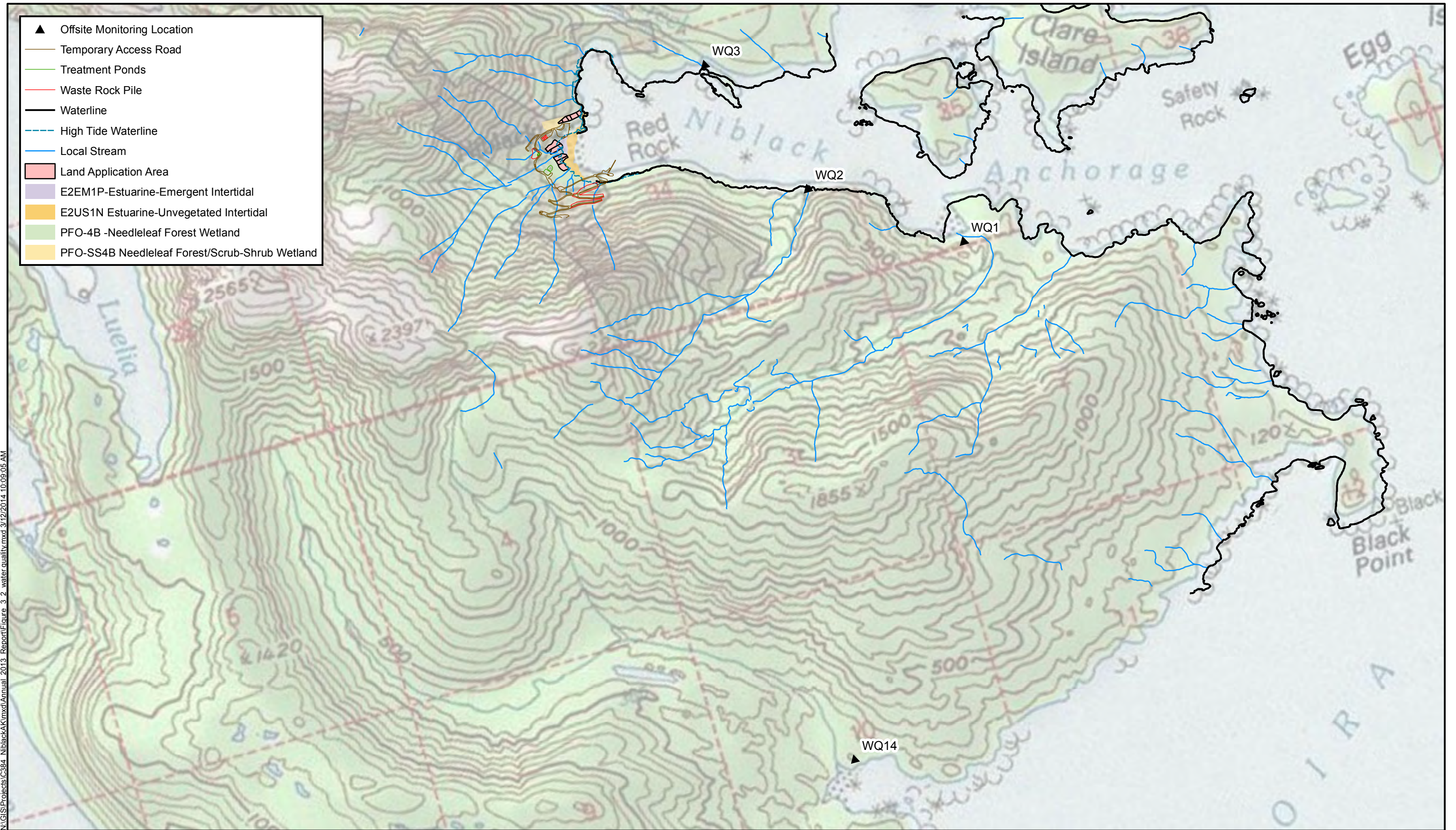


Source: Heatherdale (2011)

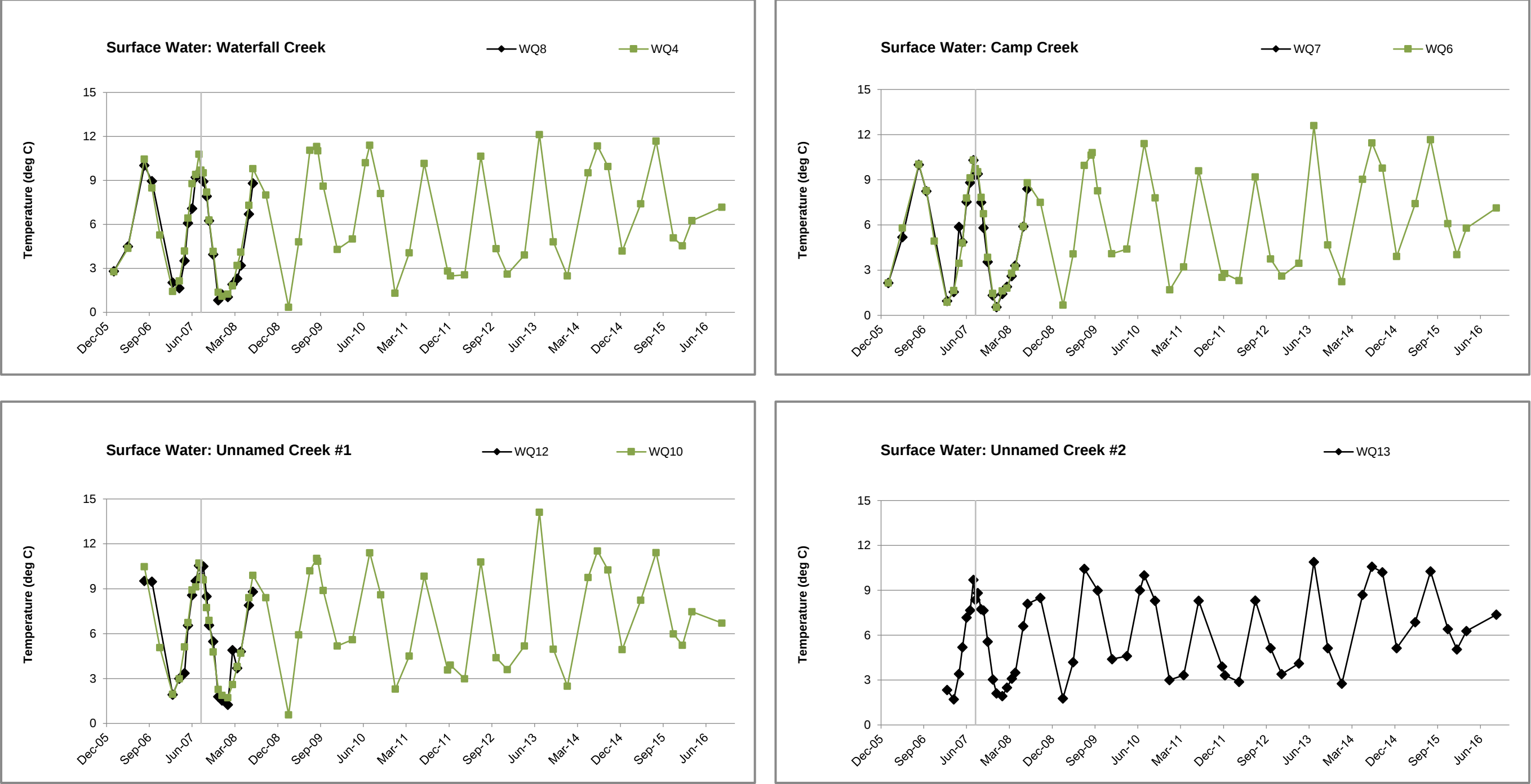


N:\GIS\Projects\C384 Niblack\Kmx\Annual 2013 Report\Figure 3-1 monitoring stations.mxd

N:\GIS\Projects\0384 Niblack\K\mxd\Annual 2013 Report\Figure 3 2 water quality.mxd 3/12/2014 10:09:05 AM



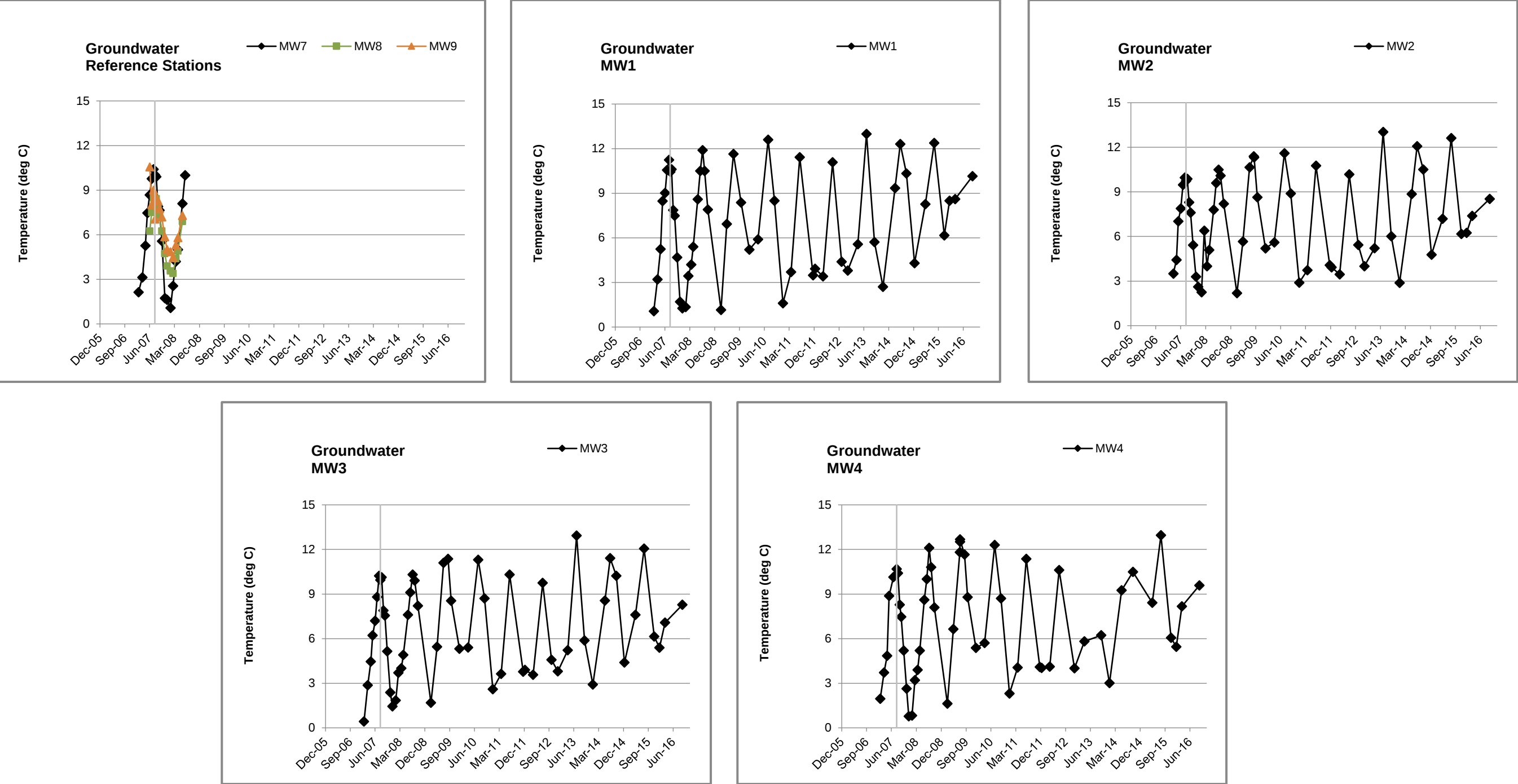
Permit Stations - Surface Water Temperature (deg C)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-1a.
Time Series Plots: Temperature
Permit Stations - Surface Water
Niblack Exploration Project

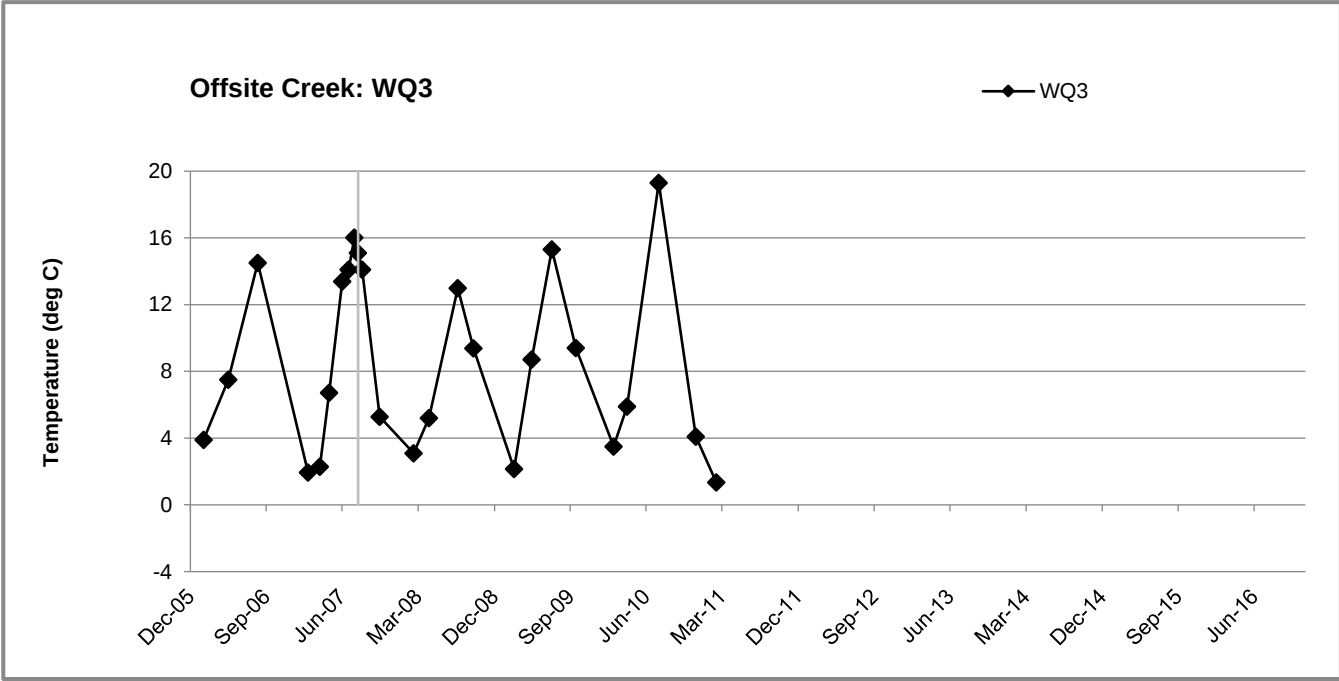
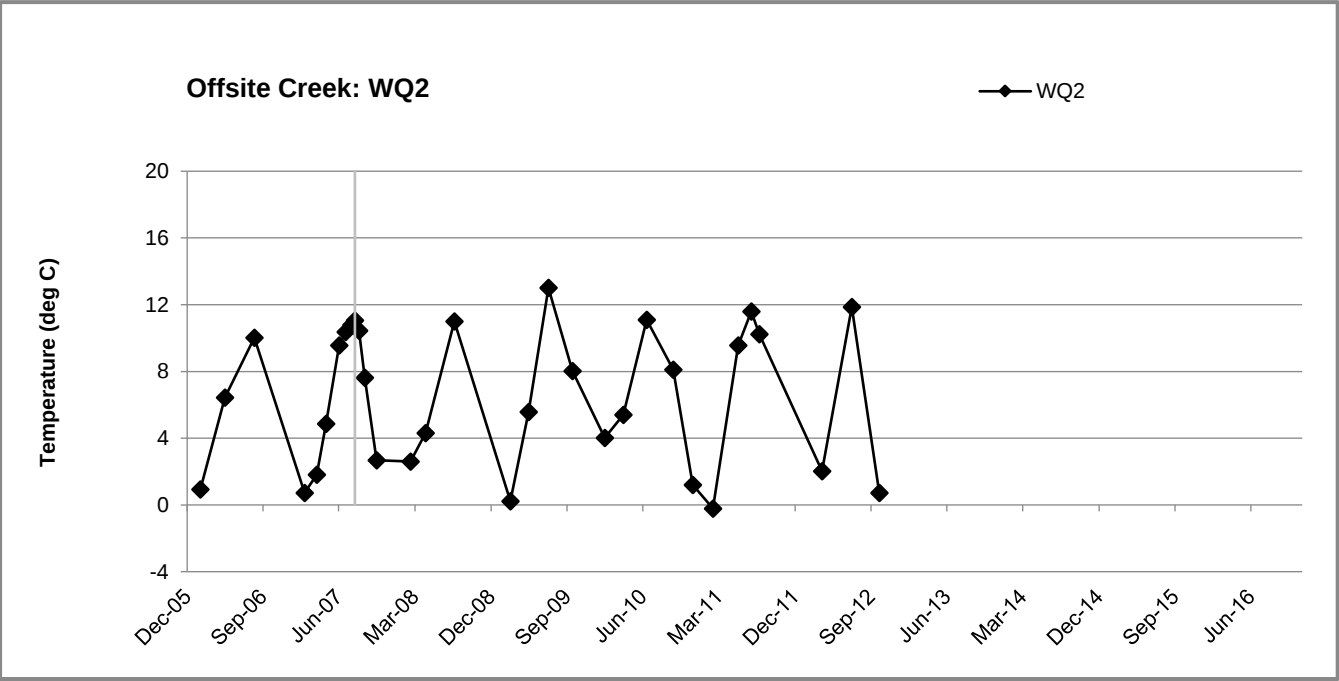
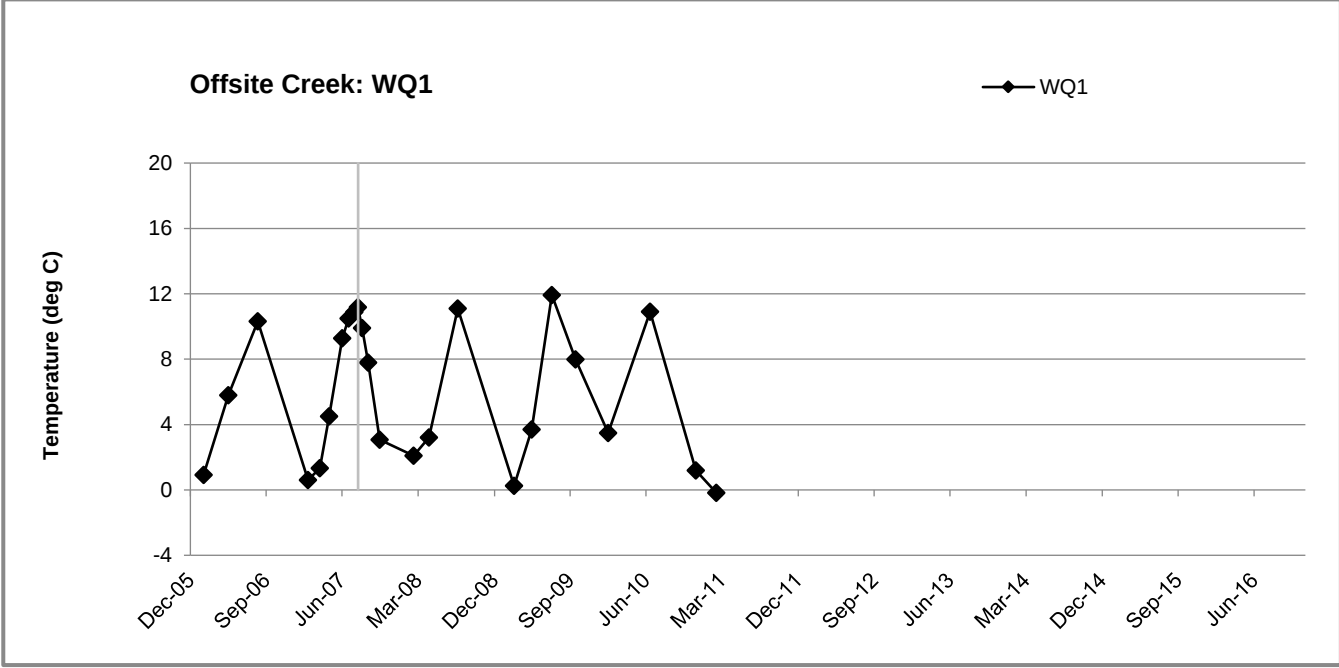
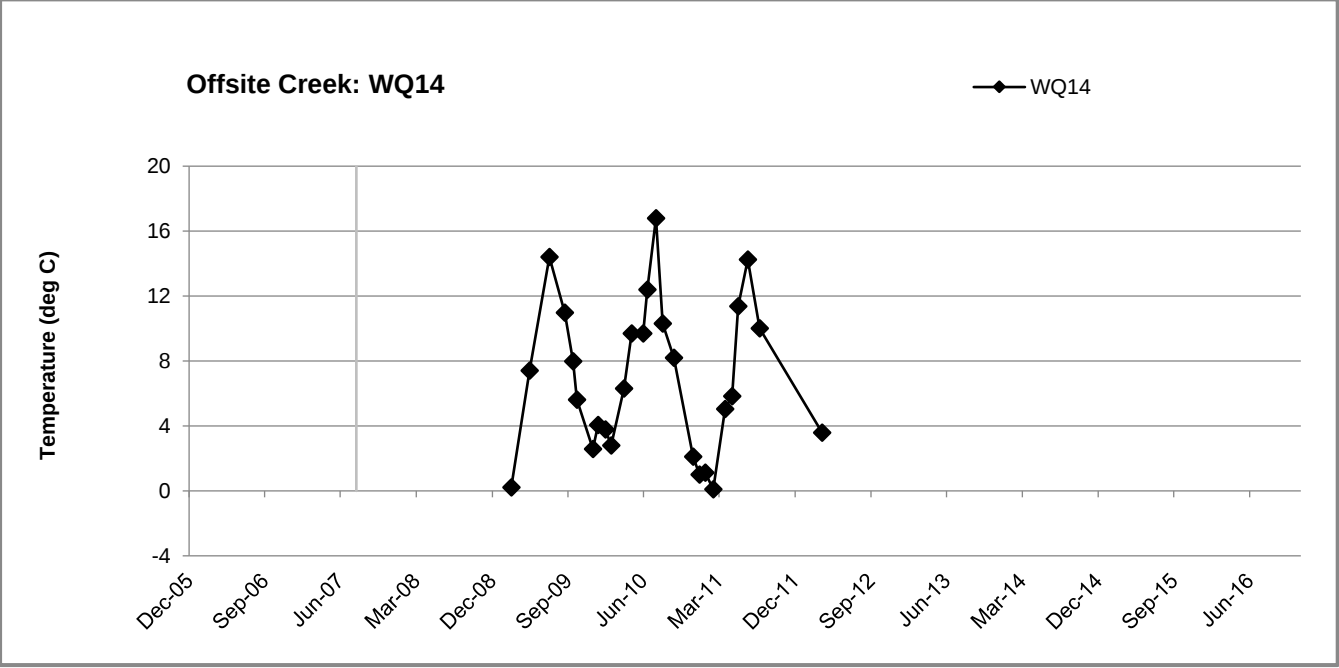
Permit Stations - Groundwater
Temperature (deg C)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-1b.
Time Series Plots: Temperature
Permit Stations - Groundwater
Niblack Exploration Project

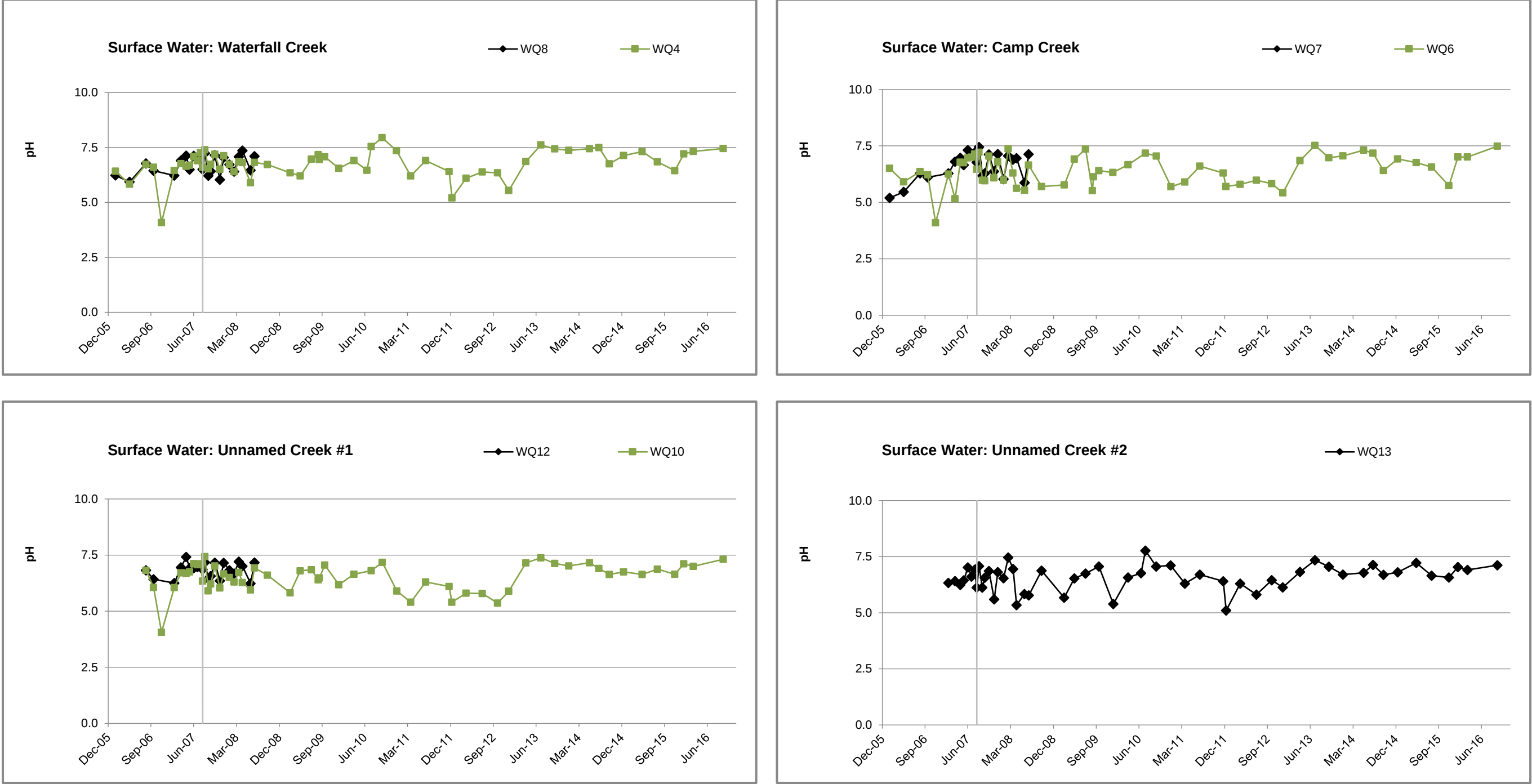
Offsite Surface Water Temperature (deg C)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-1c.
Time Series Plots: Temperature
Offsite Surface Water
Niblack Exploration Project

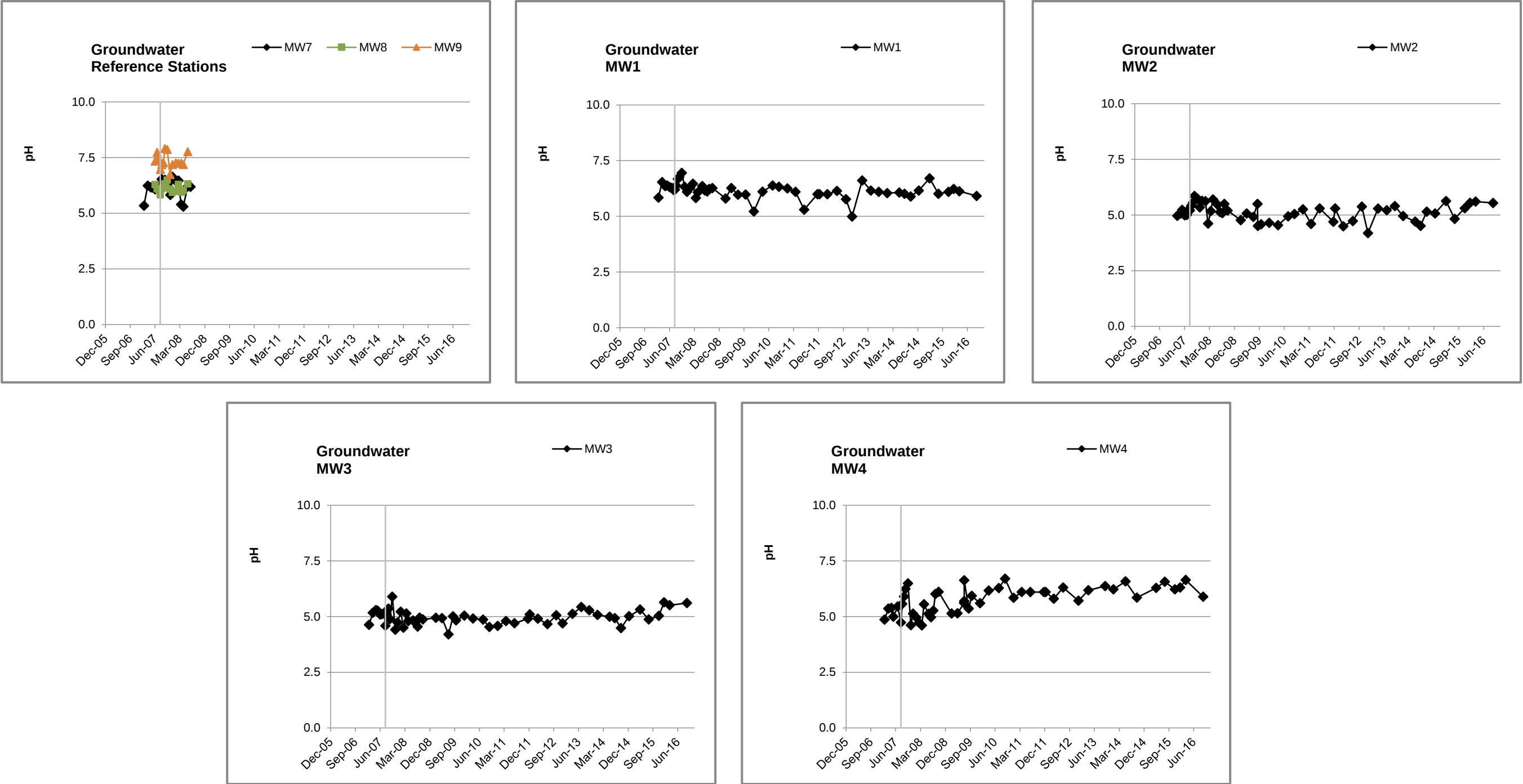
Permit Stations - Surface Water
pH



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-2a.
Time Series Plots: pH
Permit Stations - Surface Water
Niblack Exploration Project

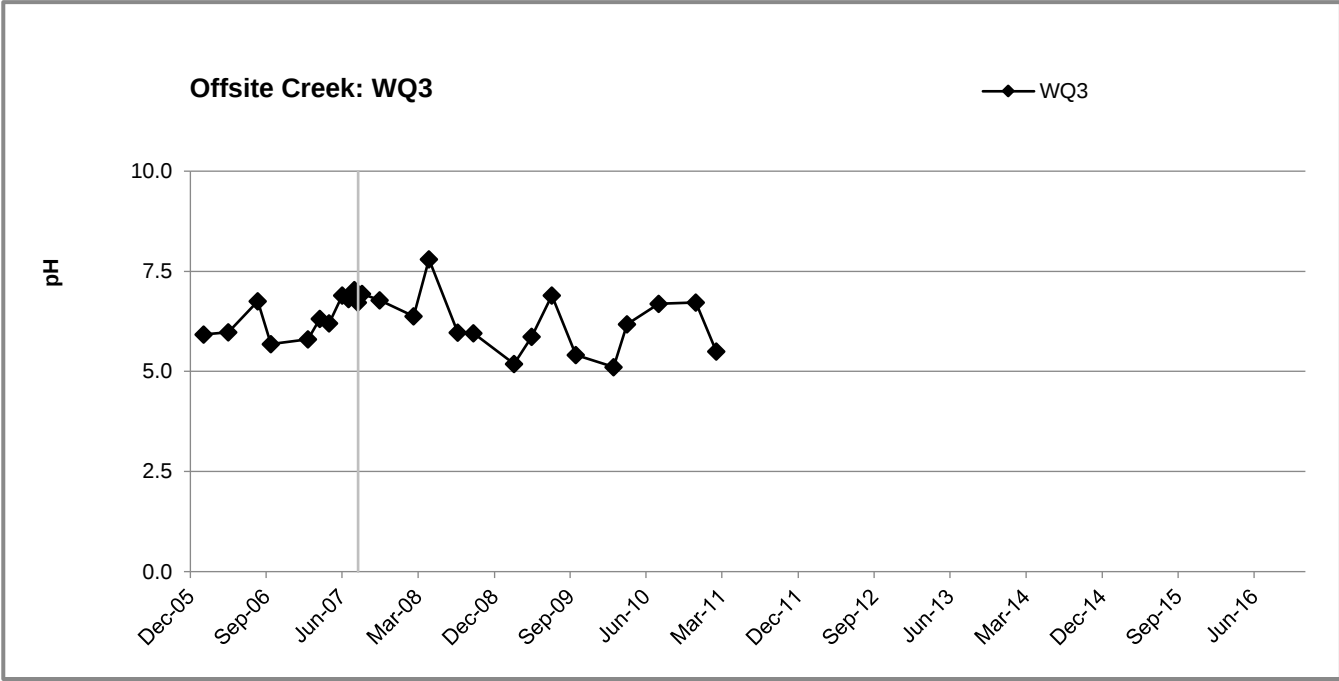
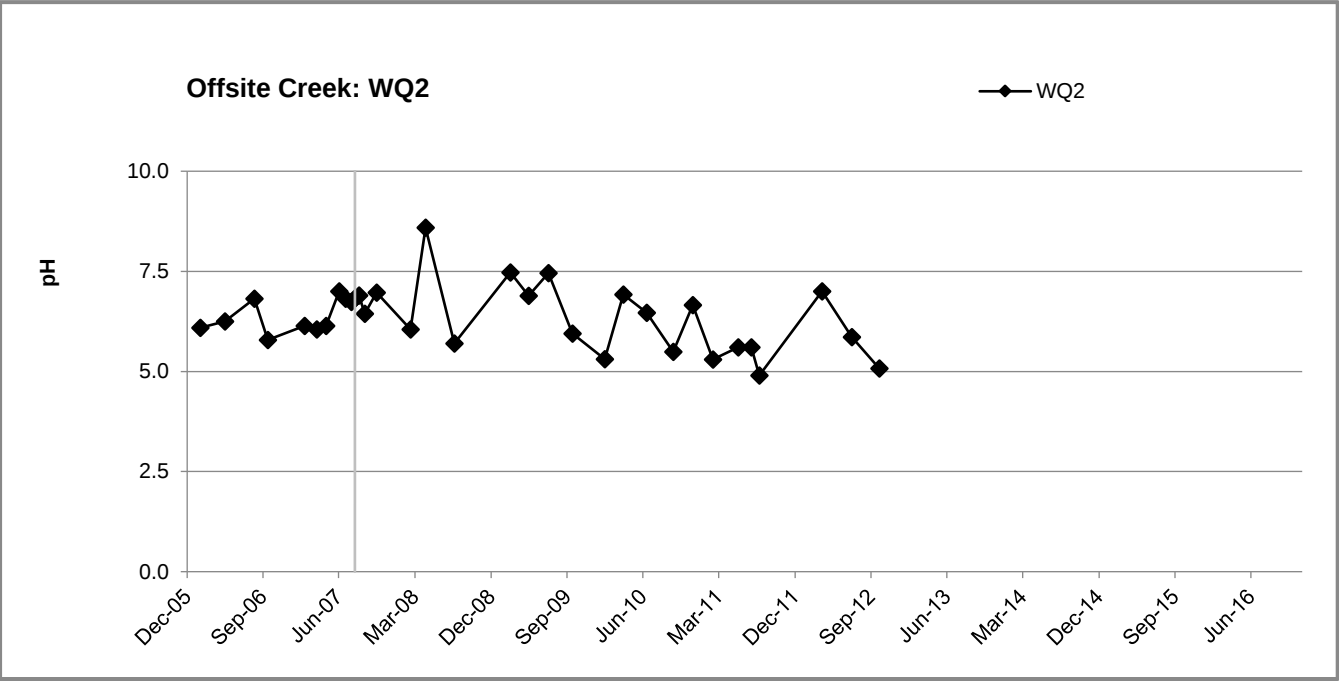
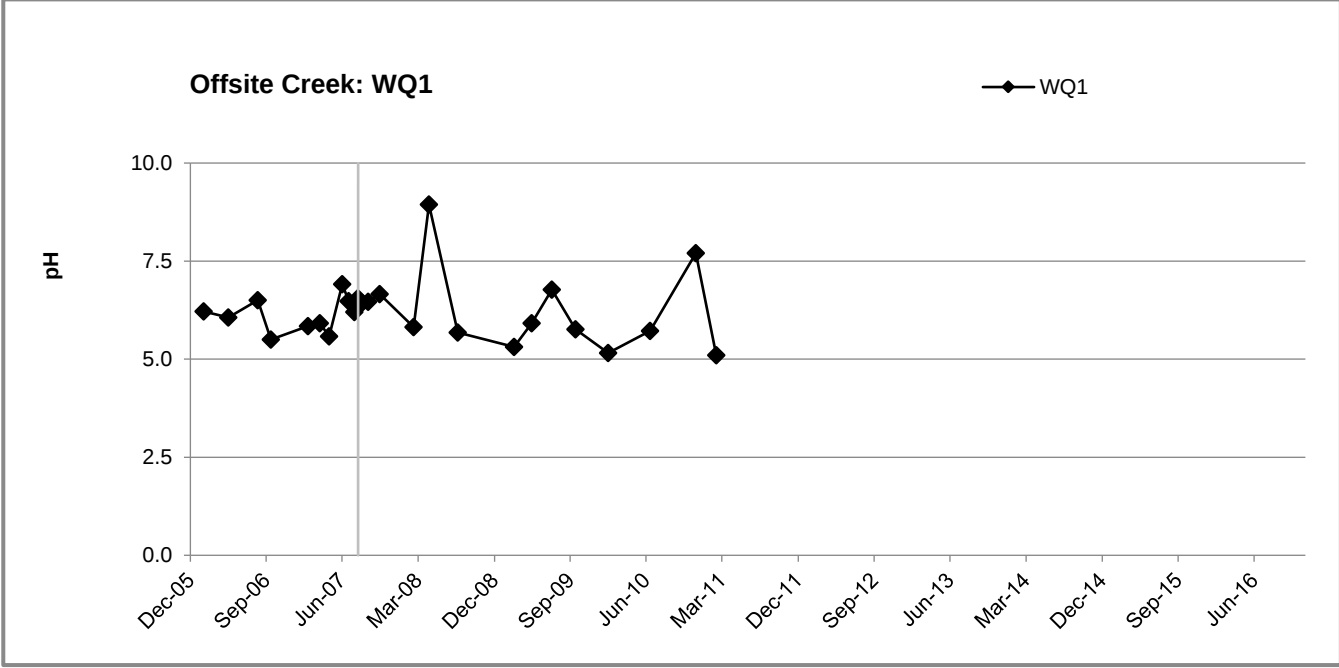
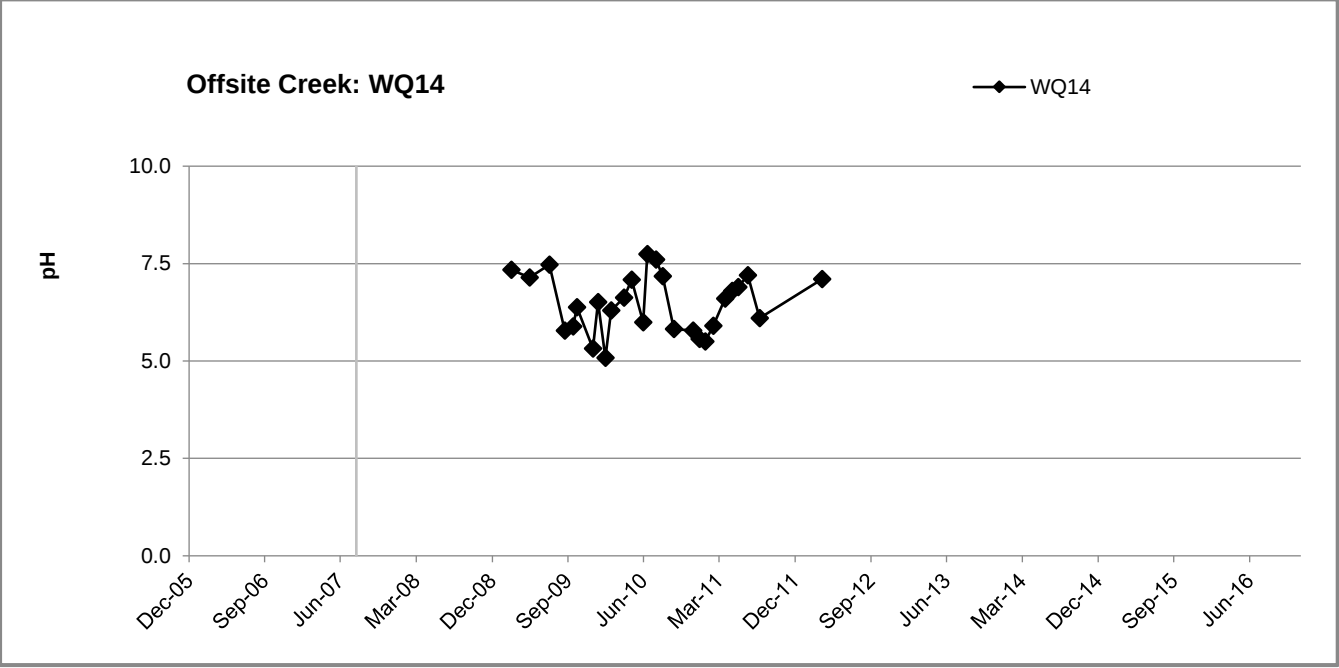
Permit Stations - Groundwater
pH



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-2b.
Time Series Plots: pH
Permit Stations - Groundwater
Niblack Exploration Project

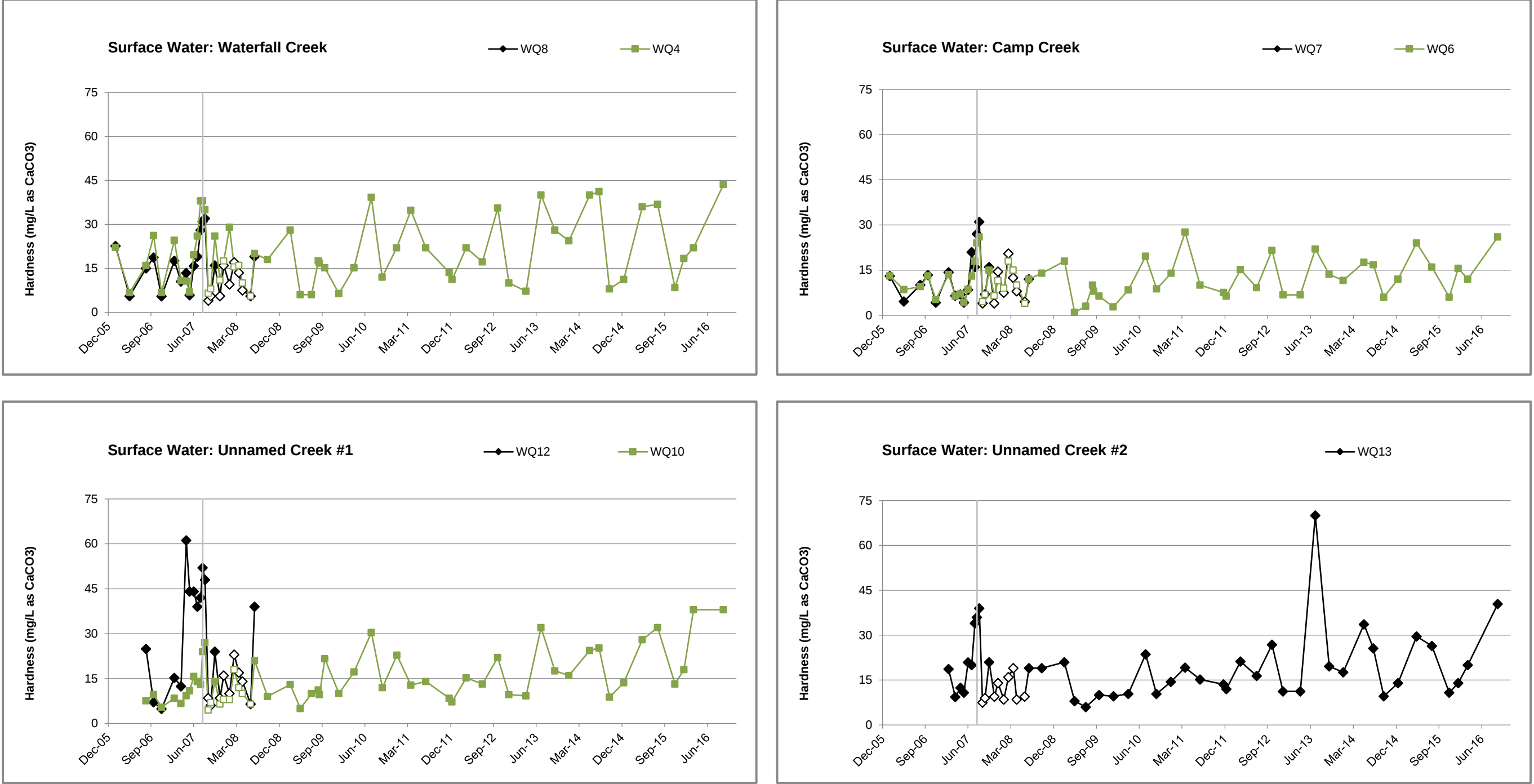
Offsite Surface Water pH



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-2c.
Time Series Plots: pH
Offsite Surface Water
Niblack Exploration Project

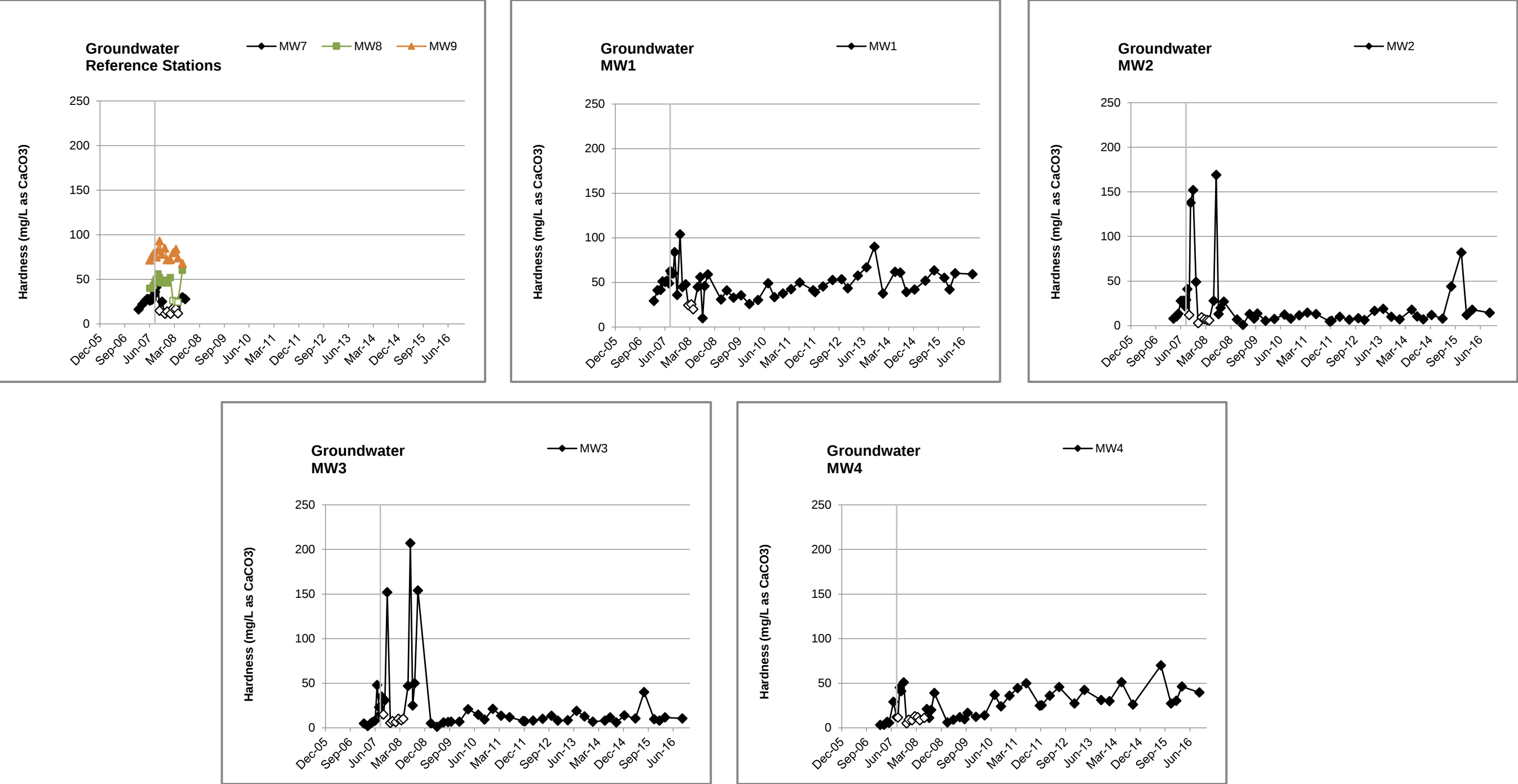
Permit Stations - Surface Water Hardness (mg/L as CaCO₃)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-3a.
 Time Series Plots: Hardness
 Permit Stations - Surface Water
 Niblack Exploration Project

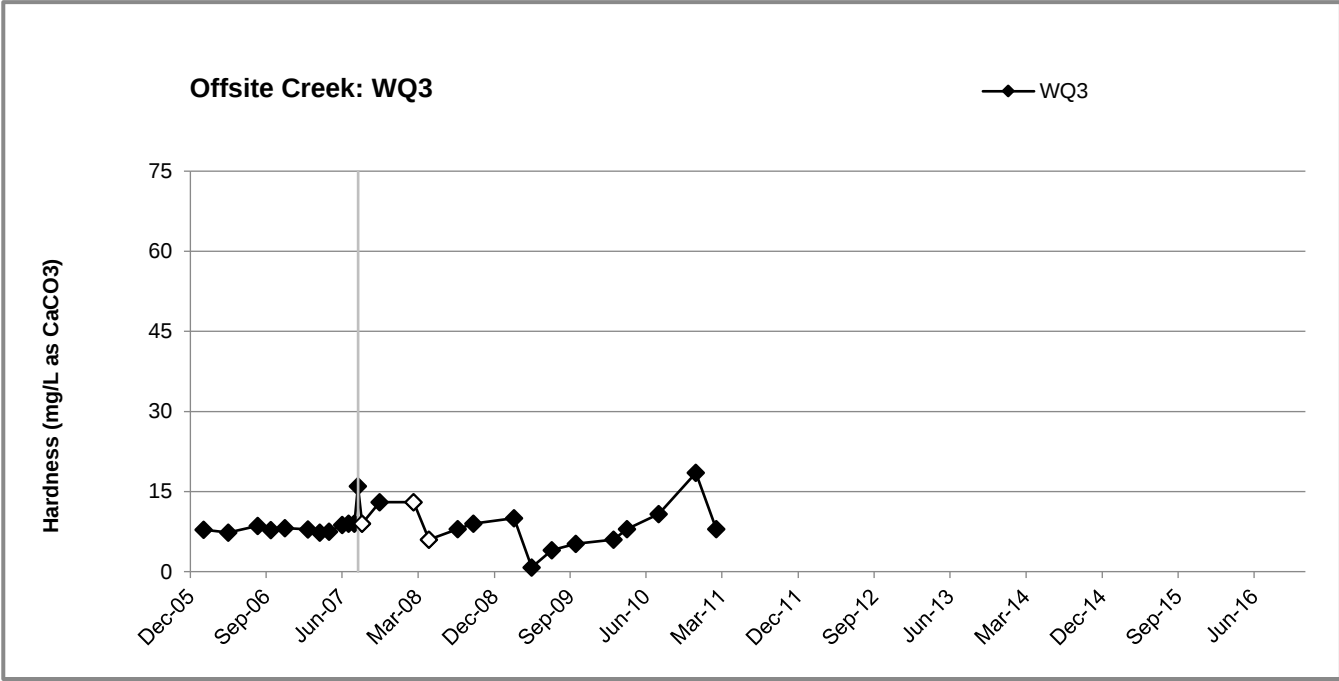
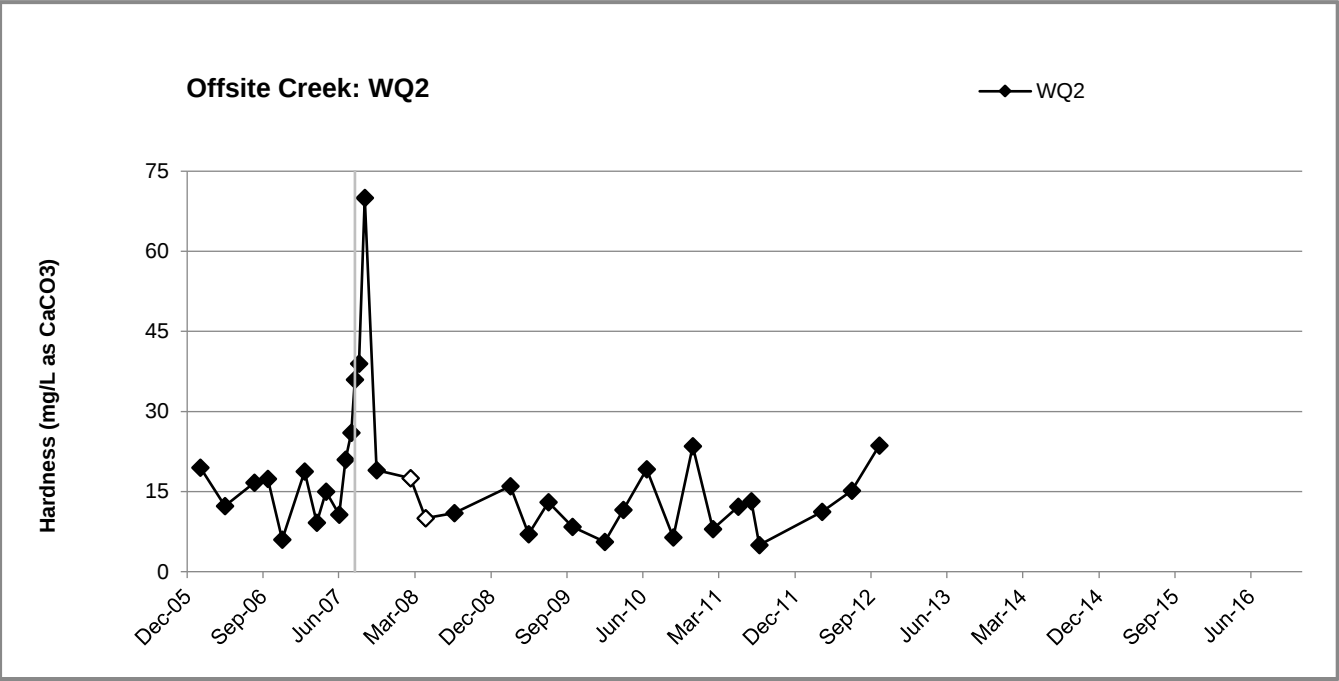
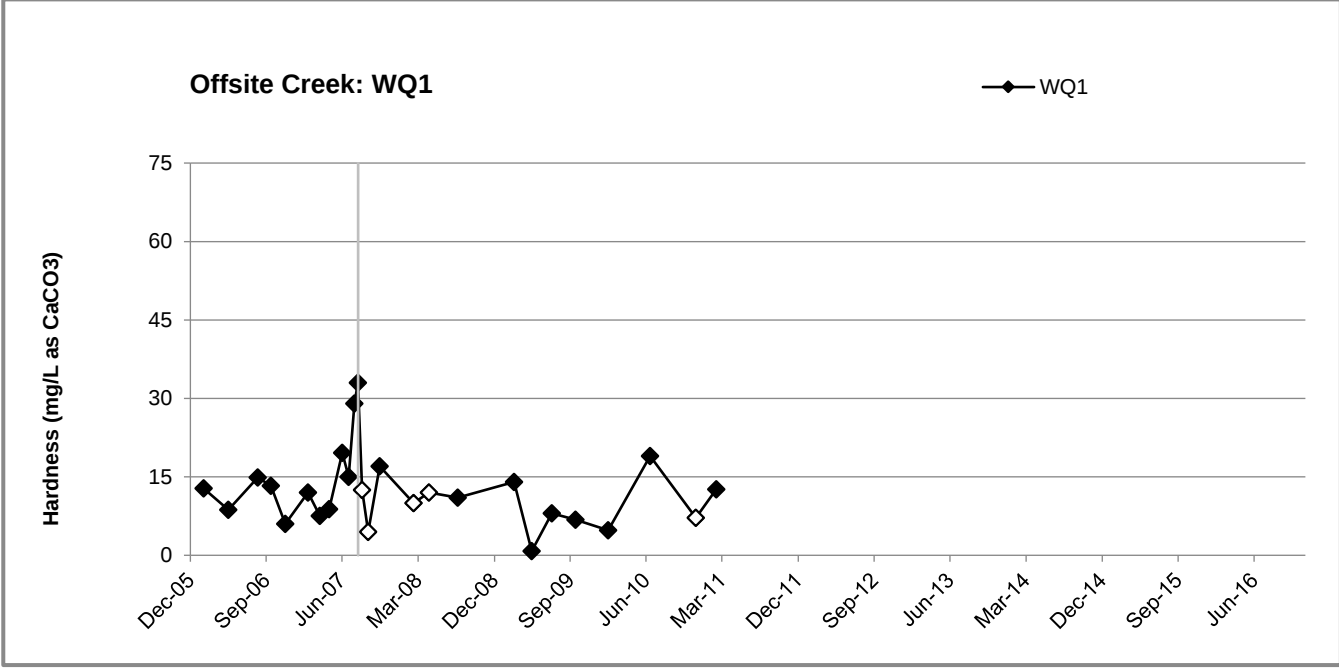
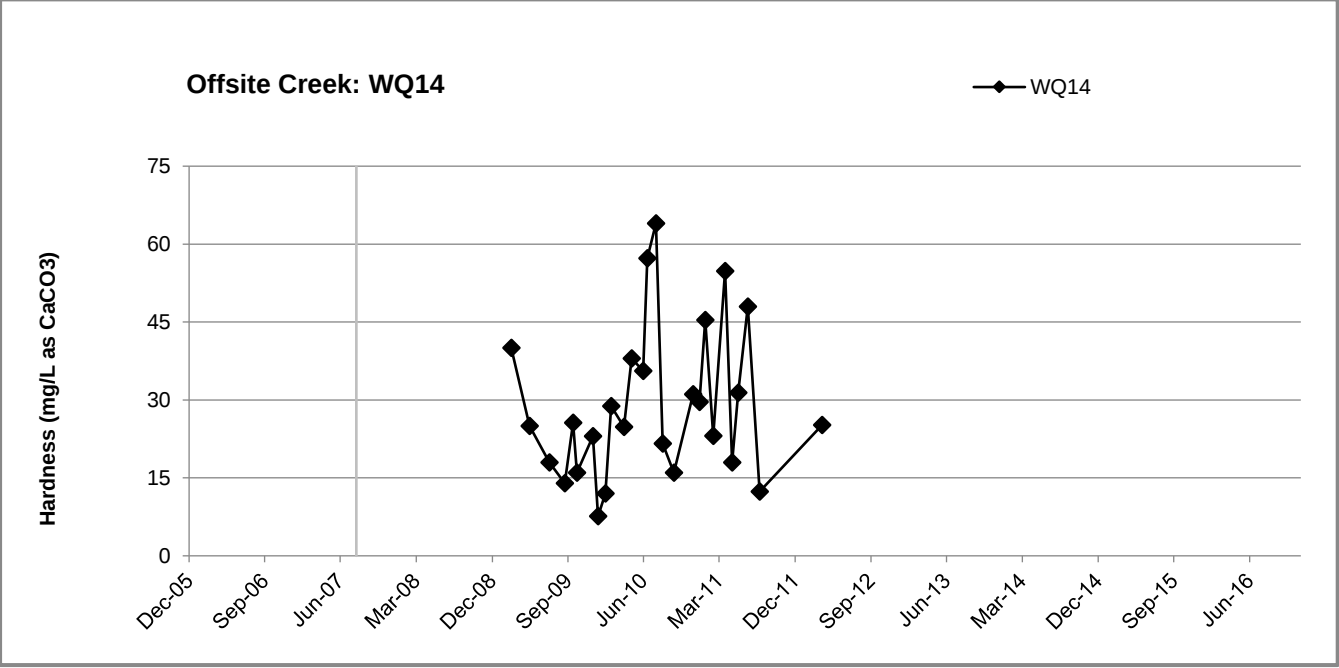
Permit Stations - Groundwater
Hardness (mg/L as CaCO₃)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-3b.
Time Series Plots: Hardness
Permit Stations - Groundwater
Niblack Exploration Project

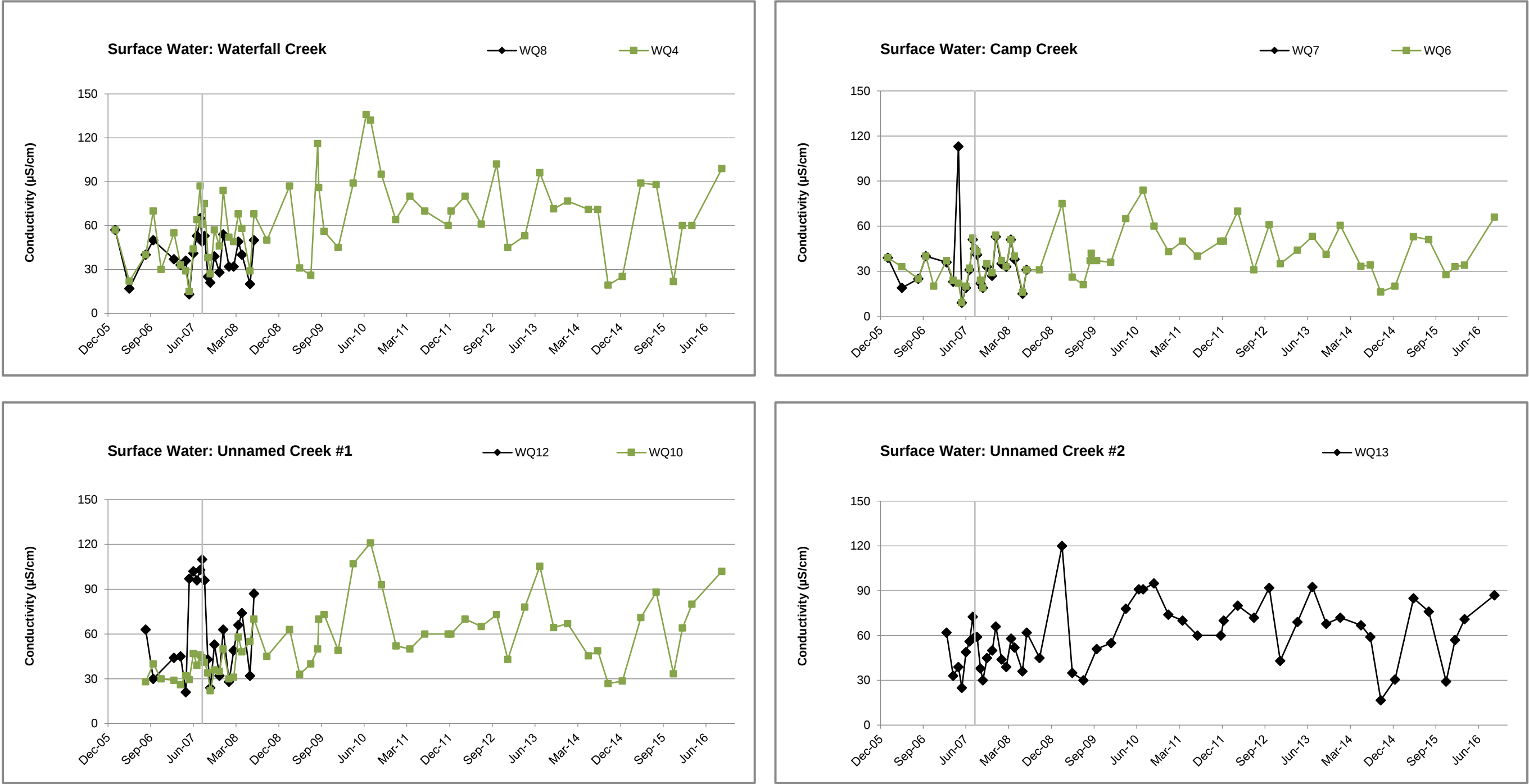
Offsite Surface Water Hardness (mg/L as CaCO₃)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-3c.
Time Series Plots: Hardness
Offsite Surface Water
Niblack Exploration Project

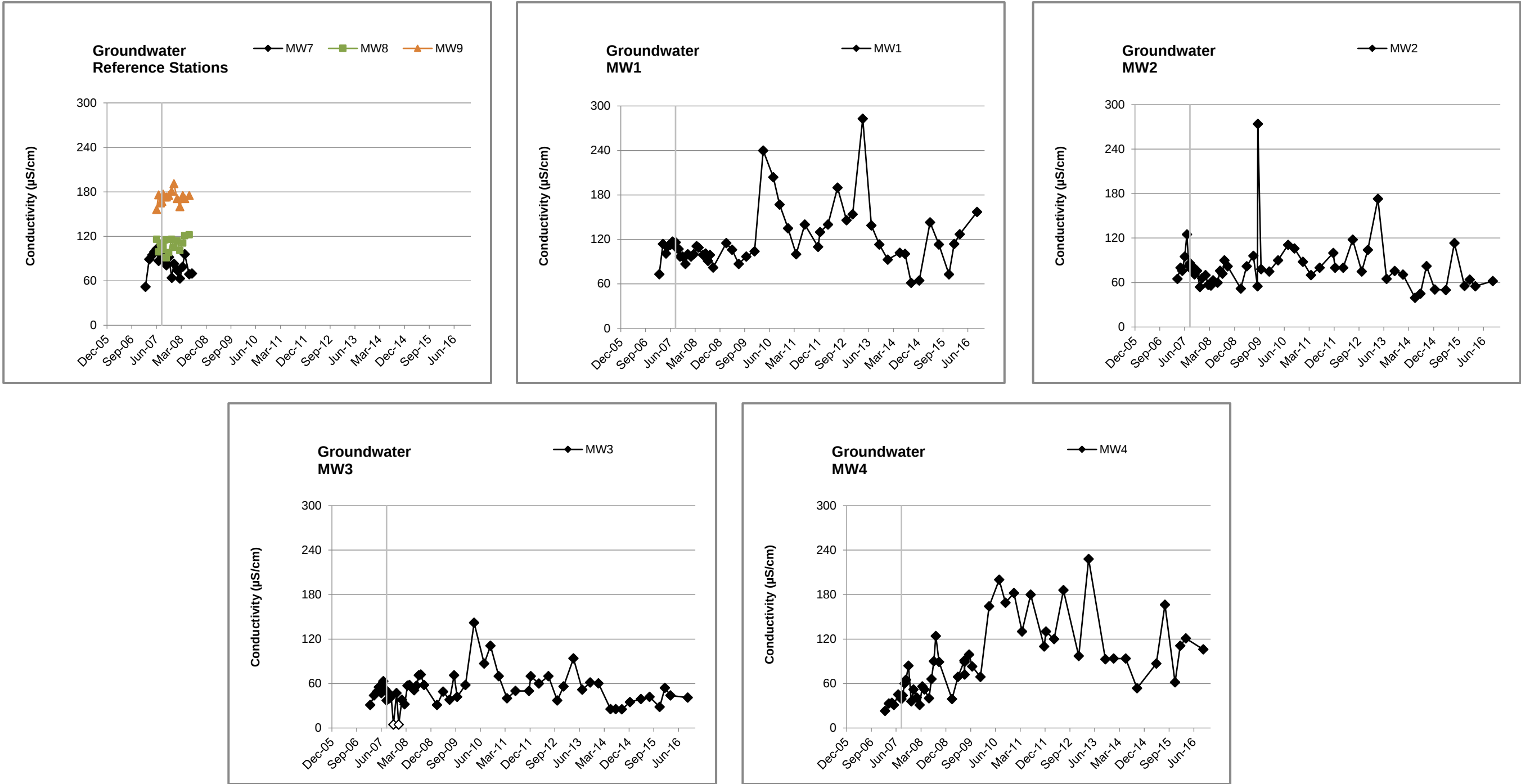
Permit Stations - Surface Water
Conductivity (µS/cm)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-4a.
Time Series Plots: Conductivity
Permit Stations - Surface Water
Niblack Exploration Project

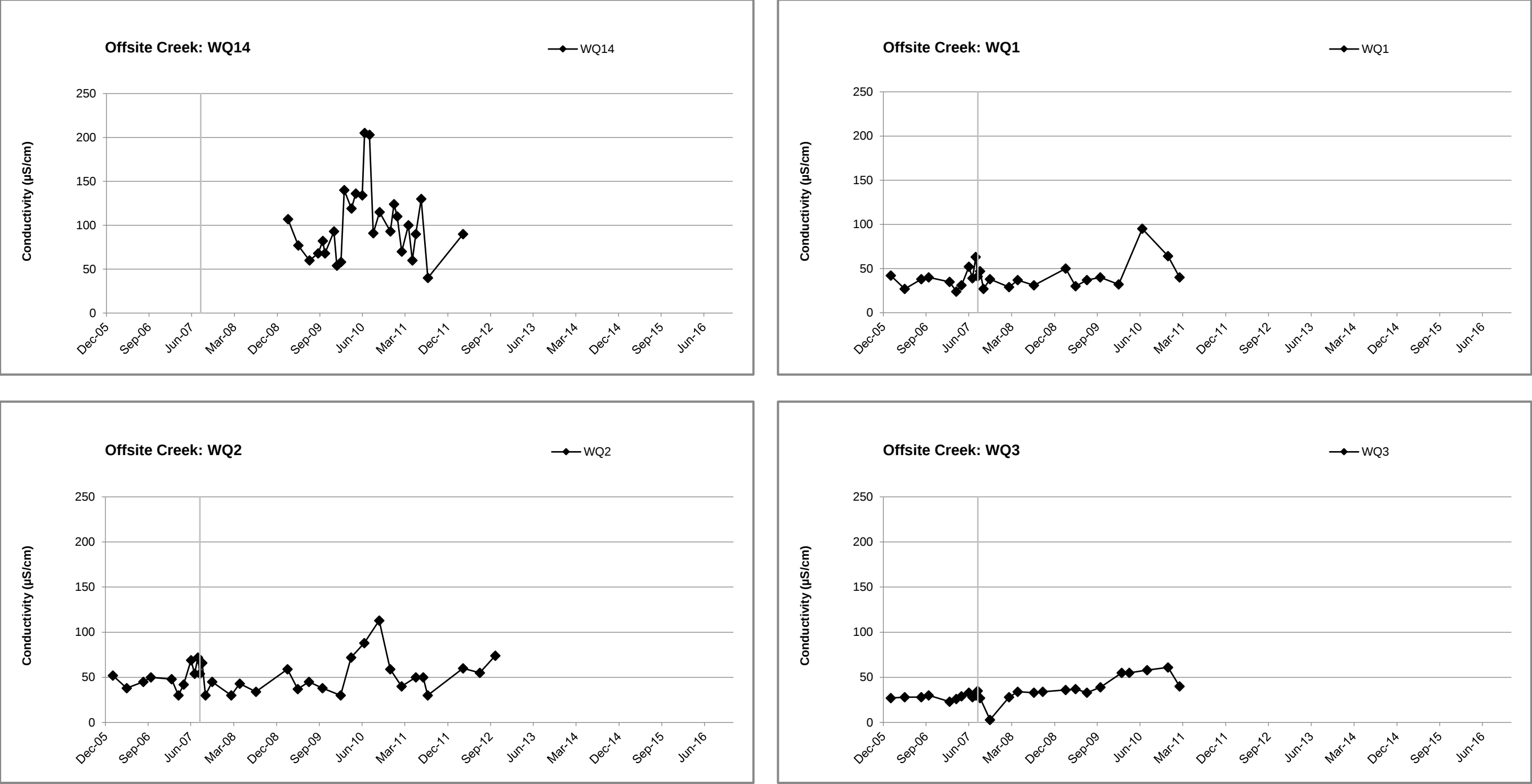
Permit Stations - Groundwater
Conductivity (µS/cm)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-4b.
Time Series Plots: Conductivity
Permit Stations - Groundwater
Niblack Exploration Project

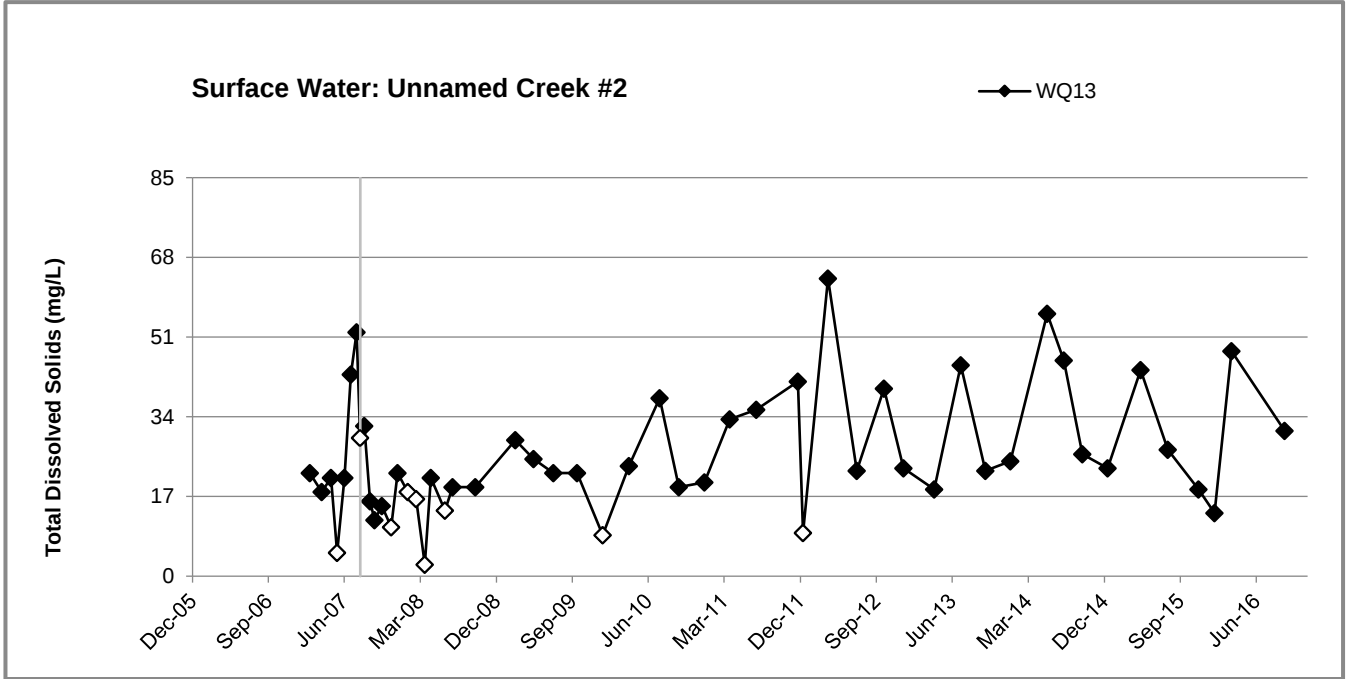
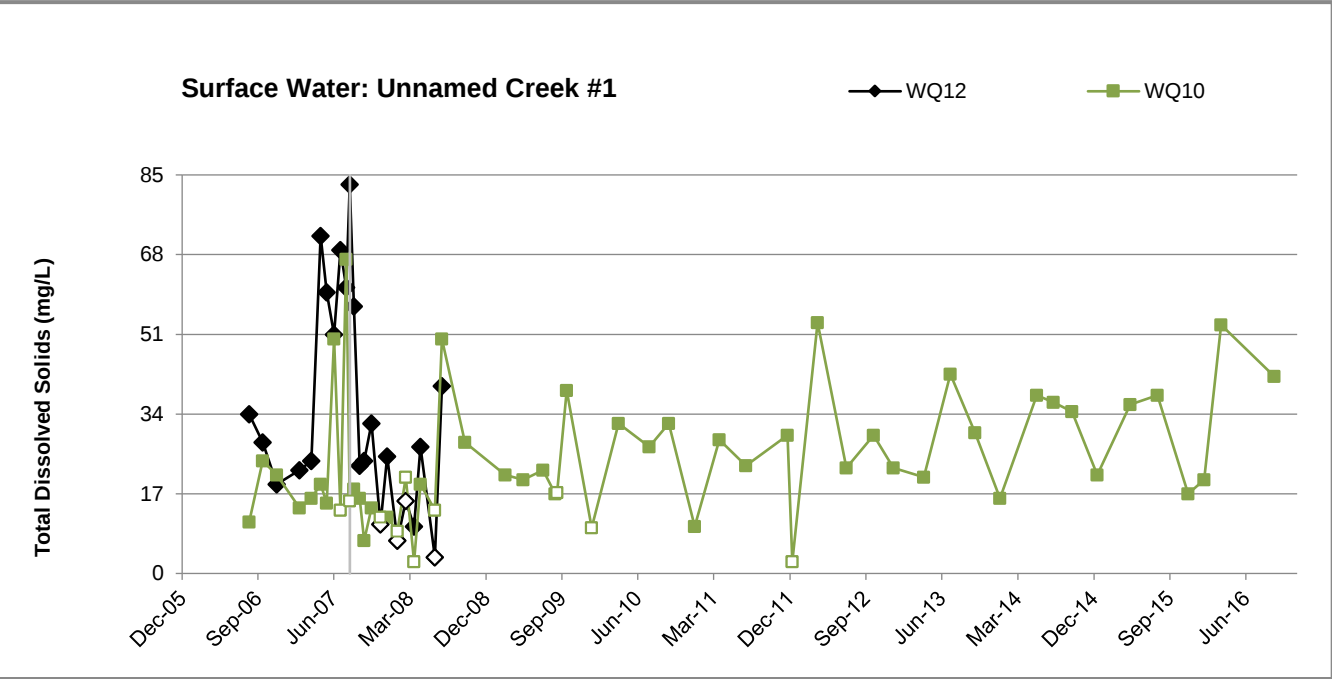
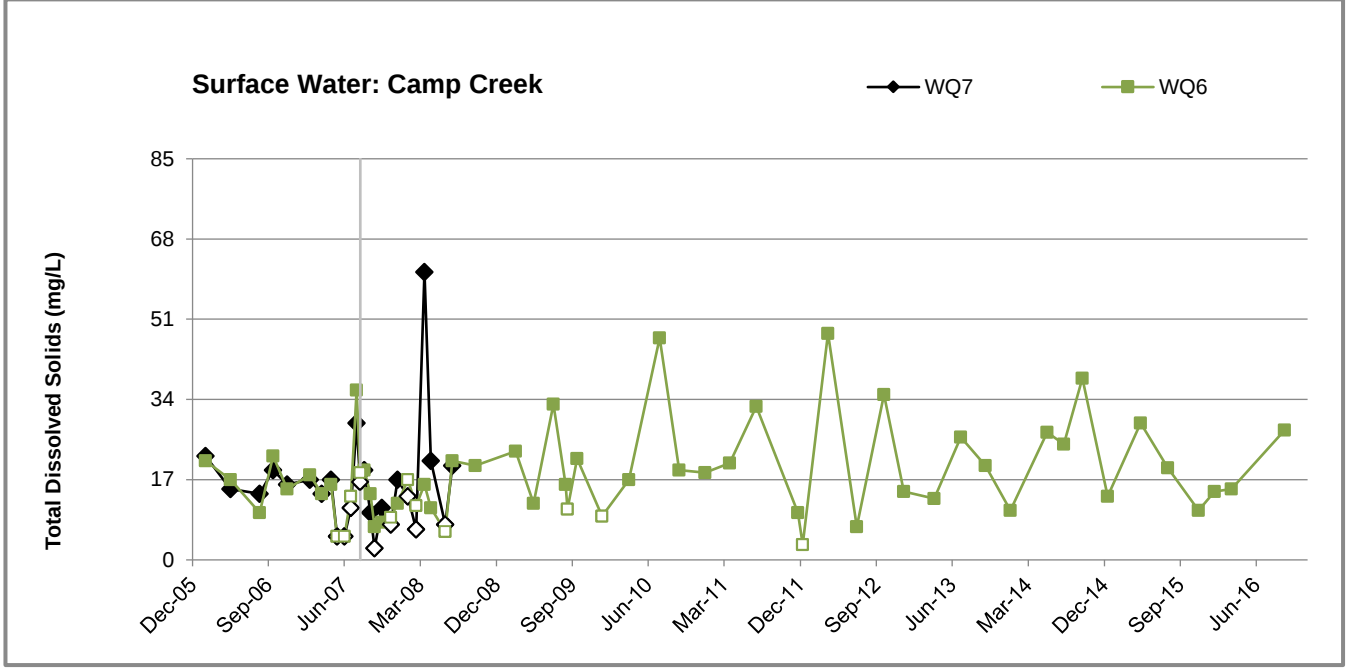
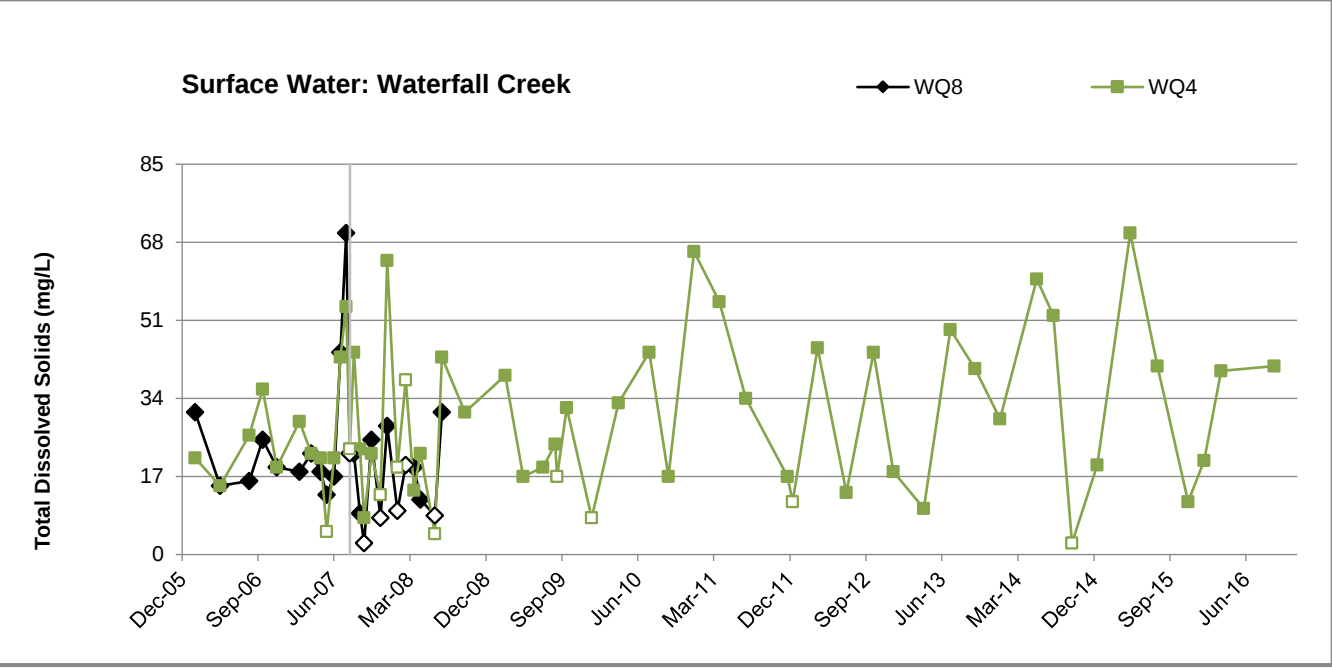
Offsite Surface Water Conductivity (µS/cm)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-4c.
Time Series Plots: Conductivity
Offsite Surface Water
Niblack Exploration Project

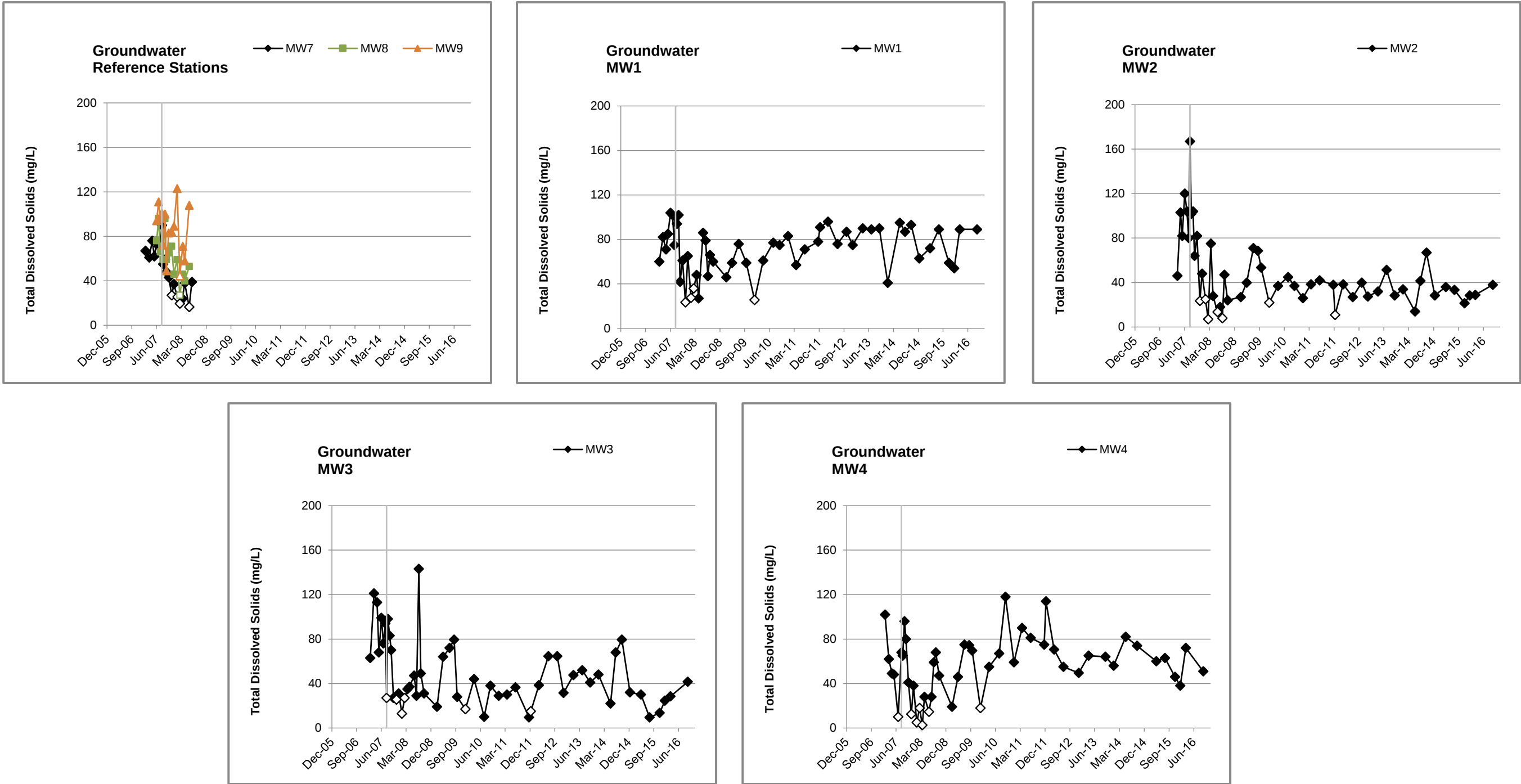
Permit Stations - Surface Water Total Dissolved Solids (mg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-5a.
 Time Series Plots: Total Dissolved Solids
 Permit Stations - Surface Water
 Niblack Exploration Project

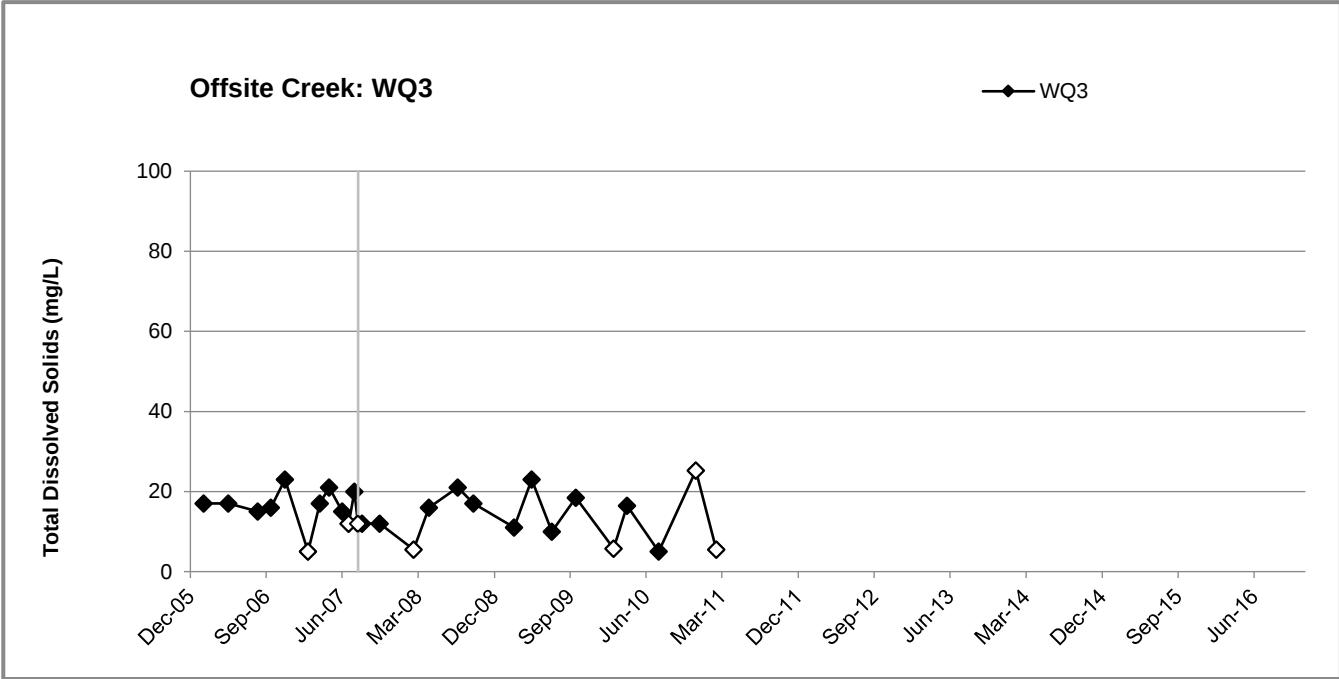
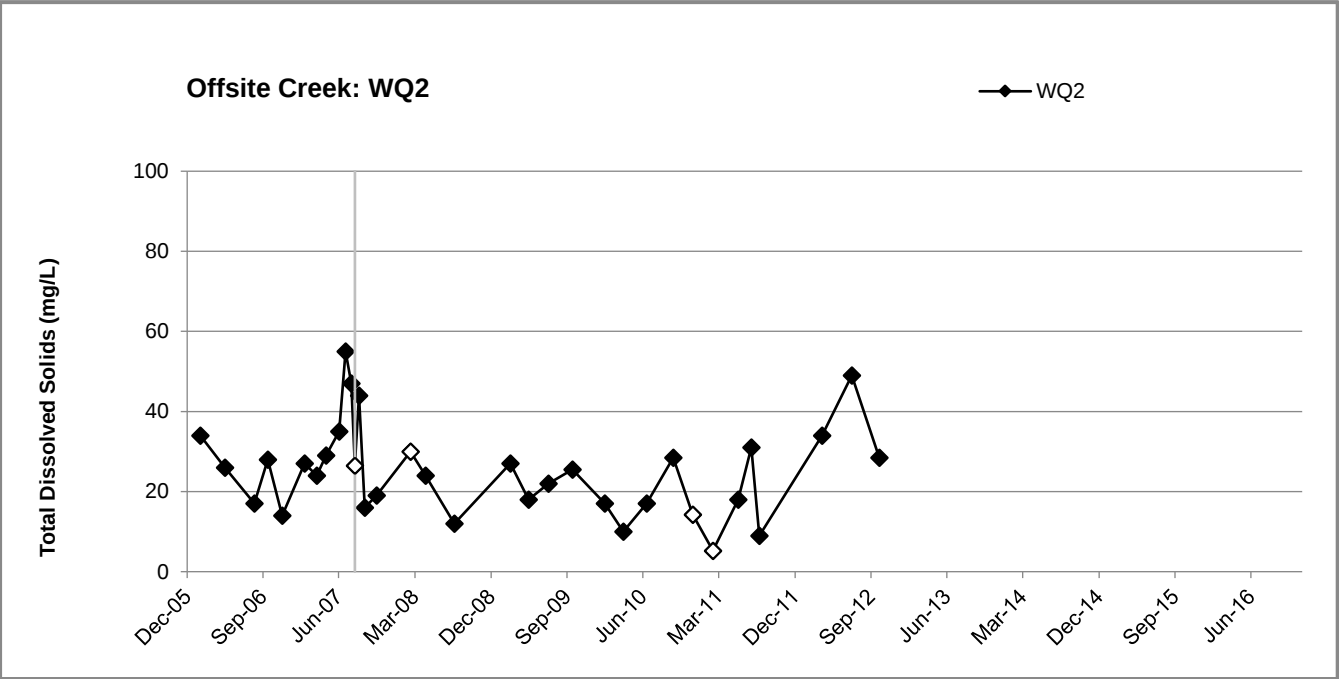
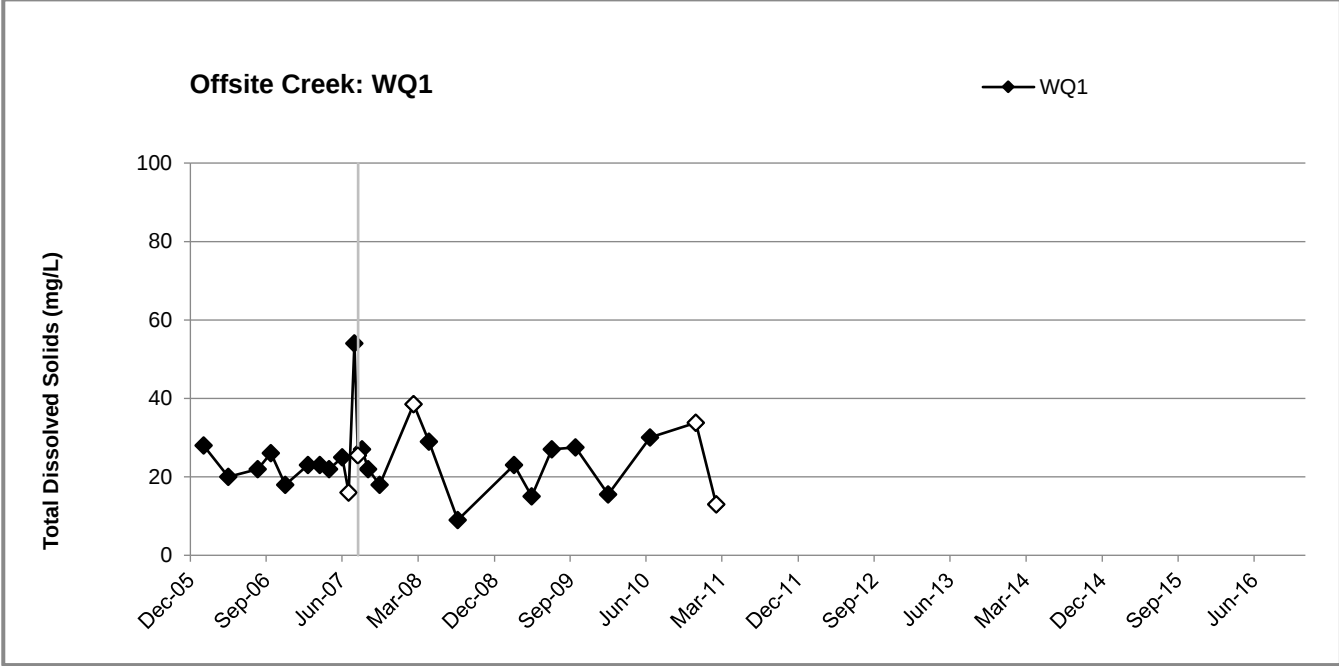
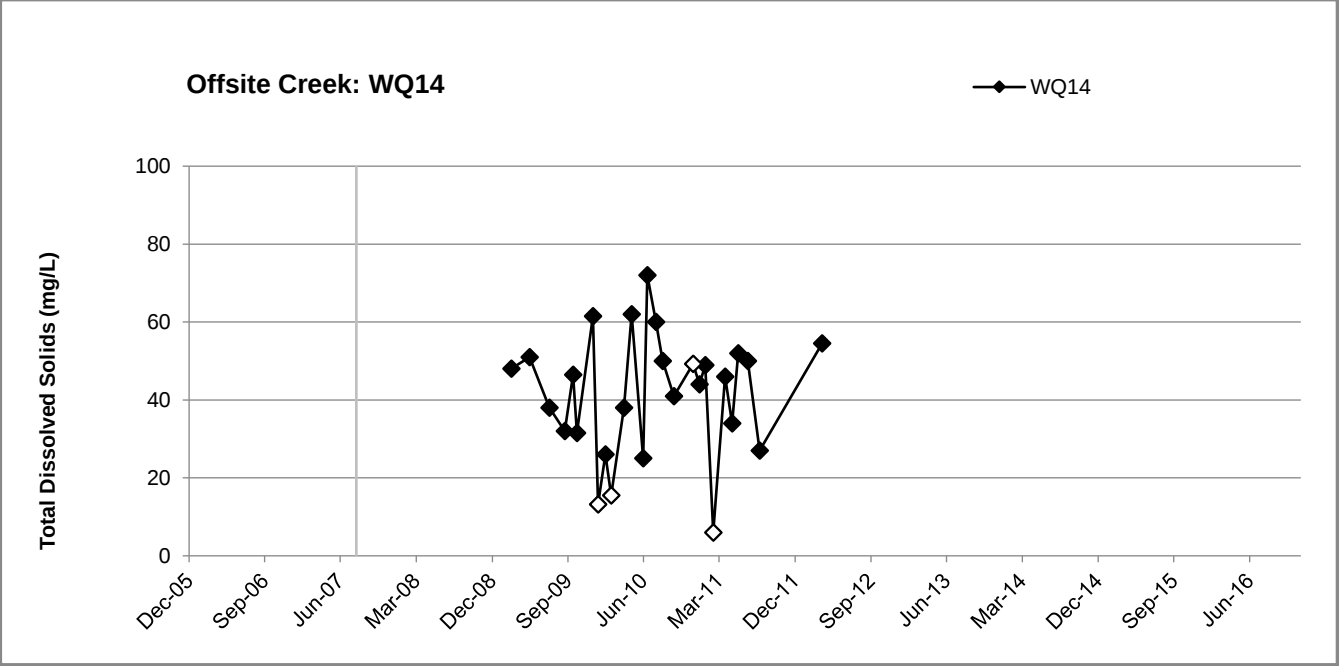
Permit Stations - Groundwater Total Dissolved Solids (mg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-5b.
Time Series Plots: Total Dissolved Solids
Permit Stations - Groundwater
Niblack Exploration Project

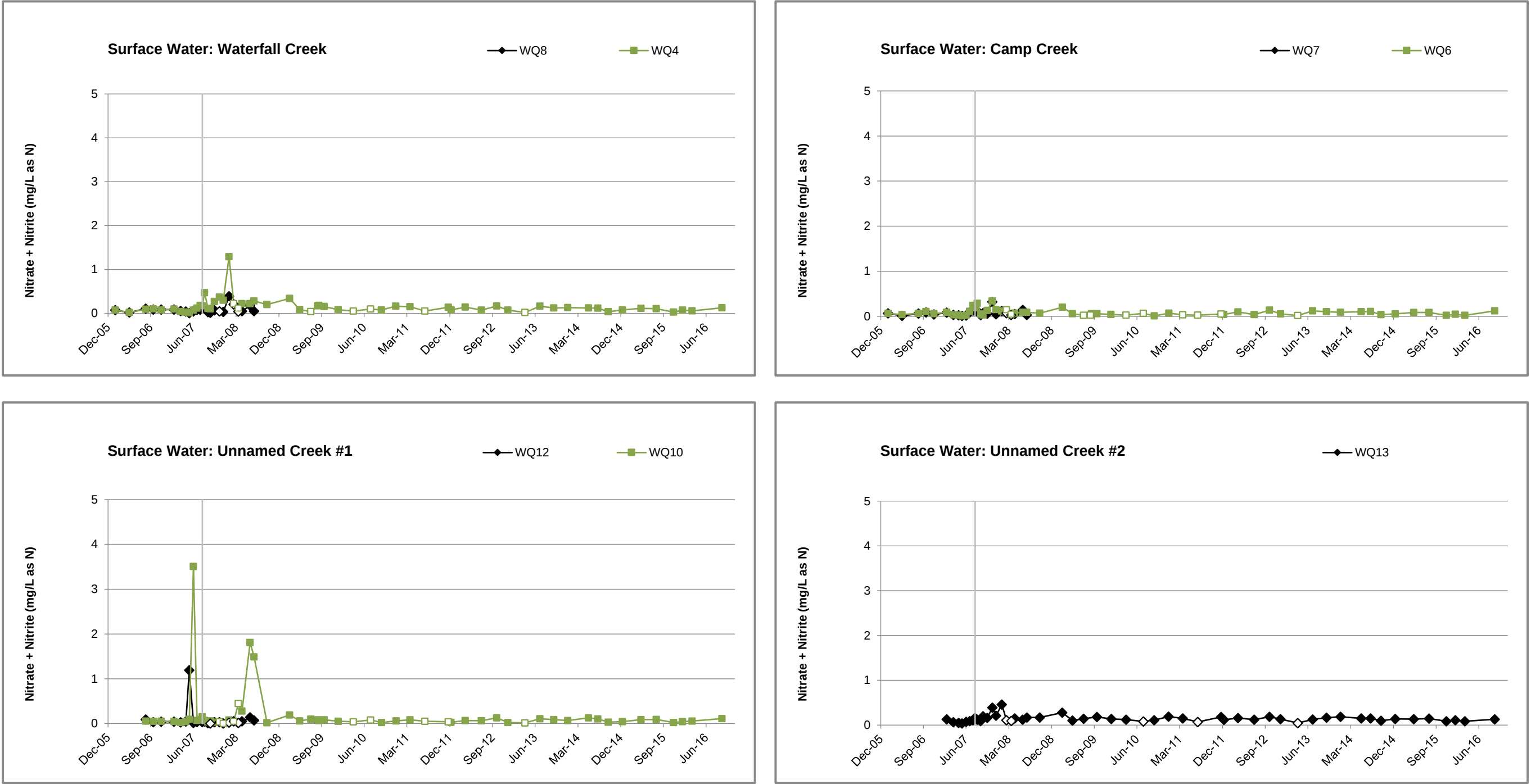
Offsite Surface Water Total Dissolved Solids (mg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-5c.
Time Series Plots: Total Dissolved Solids
Offsite Surface Water
Niblack Exploration Project

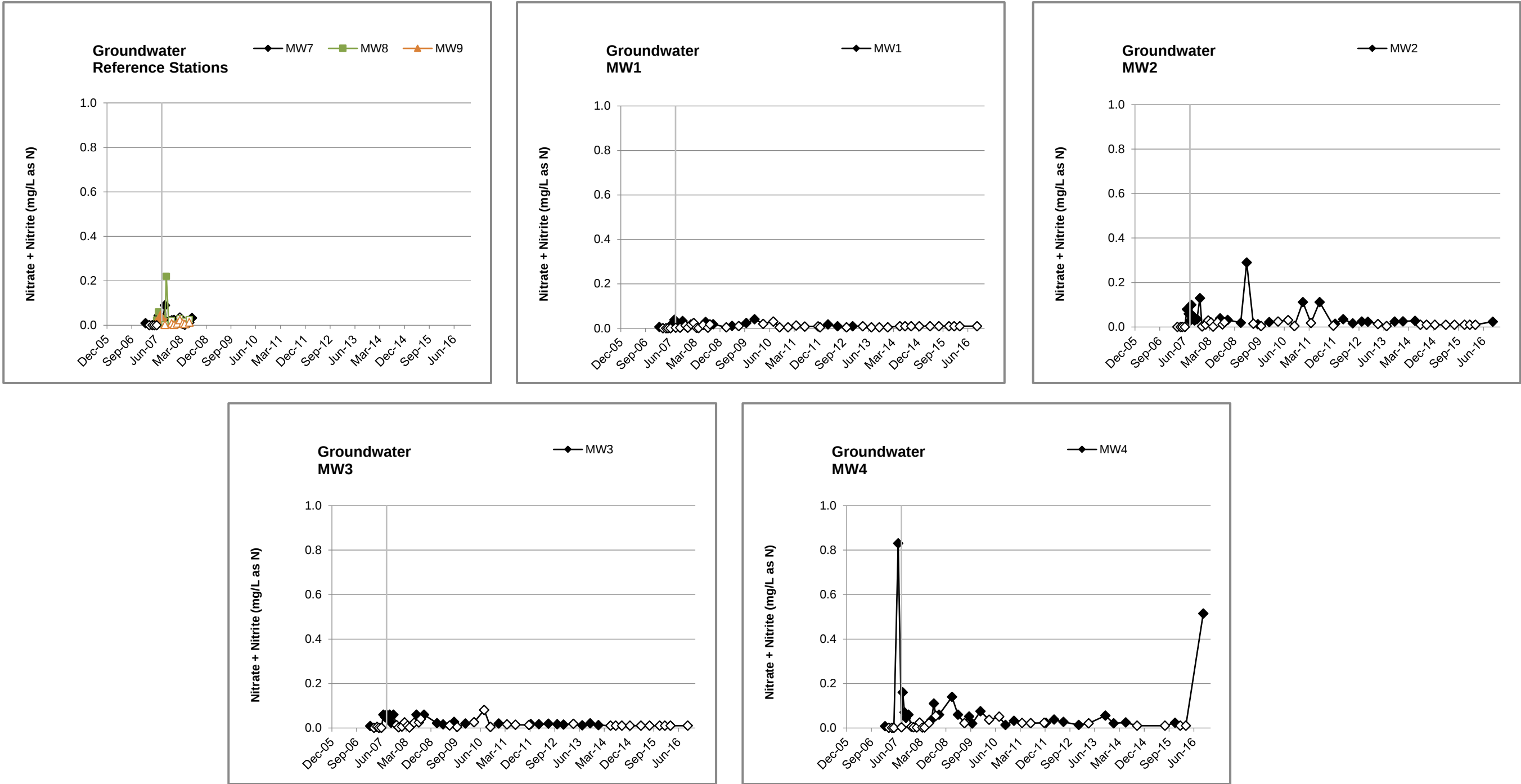
Permit Stations - Surface Water
Nitrate + Nitrite (mg/L as N)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-6a.
Time Series Plots: Nitrate + Nitrite
Permit Stations - Surface Water
Niblack Exploration Project

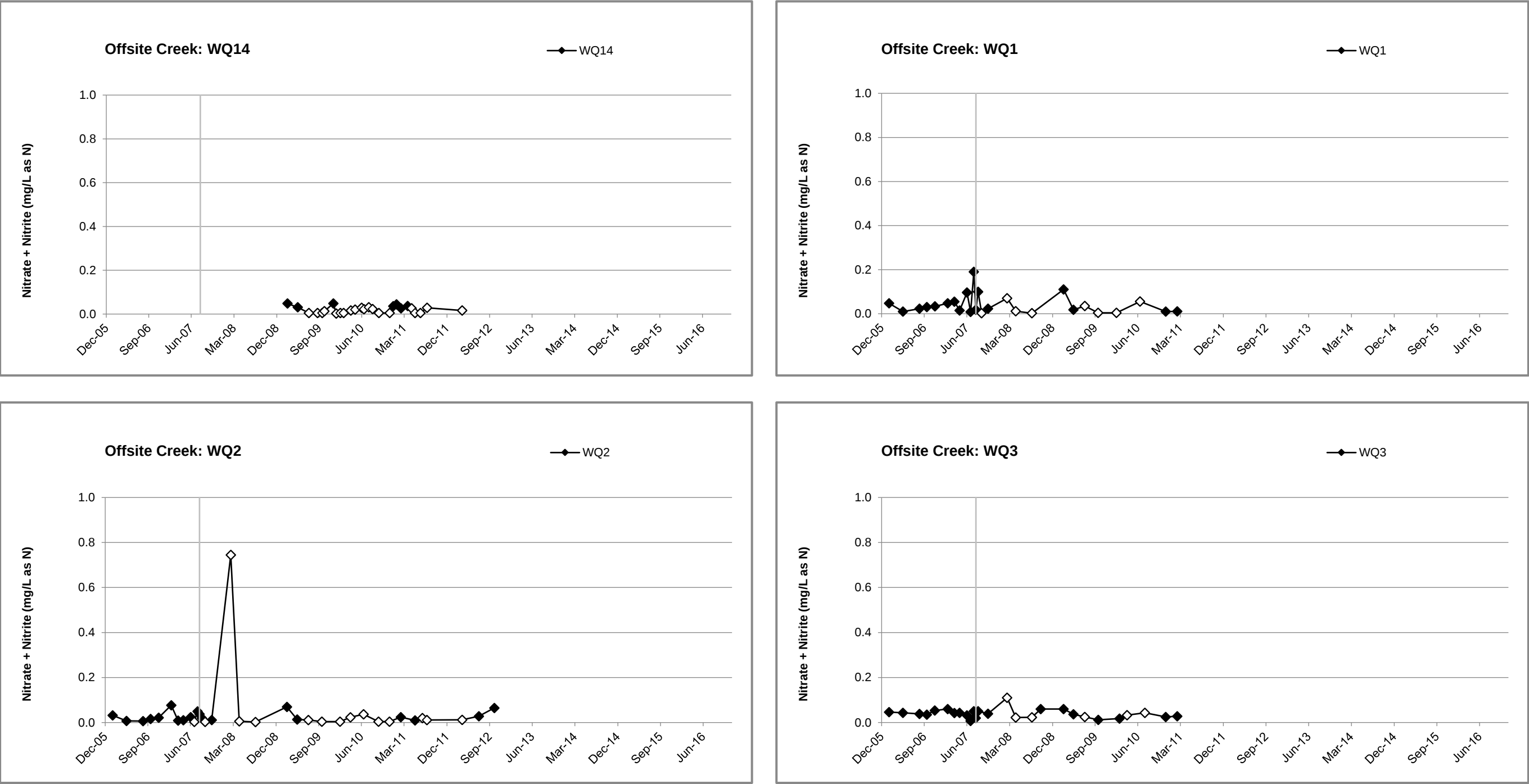
Permit Stations - Groundwater
Nitrate + Nitrite (mg/L as N)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-6b.
Time Series Plots: Nitrate + Nitrite
Permit Stations - Groundwater
Niblack Exploration Project

Offsite Surface Water Nitrate + Nitrite (mg/L as N)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-6c.
Time Series Plots: Nitrate + Nitrite
Offsite Surface Water
Niblack Exploration Project

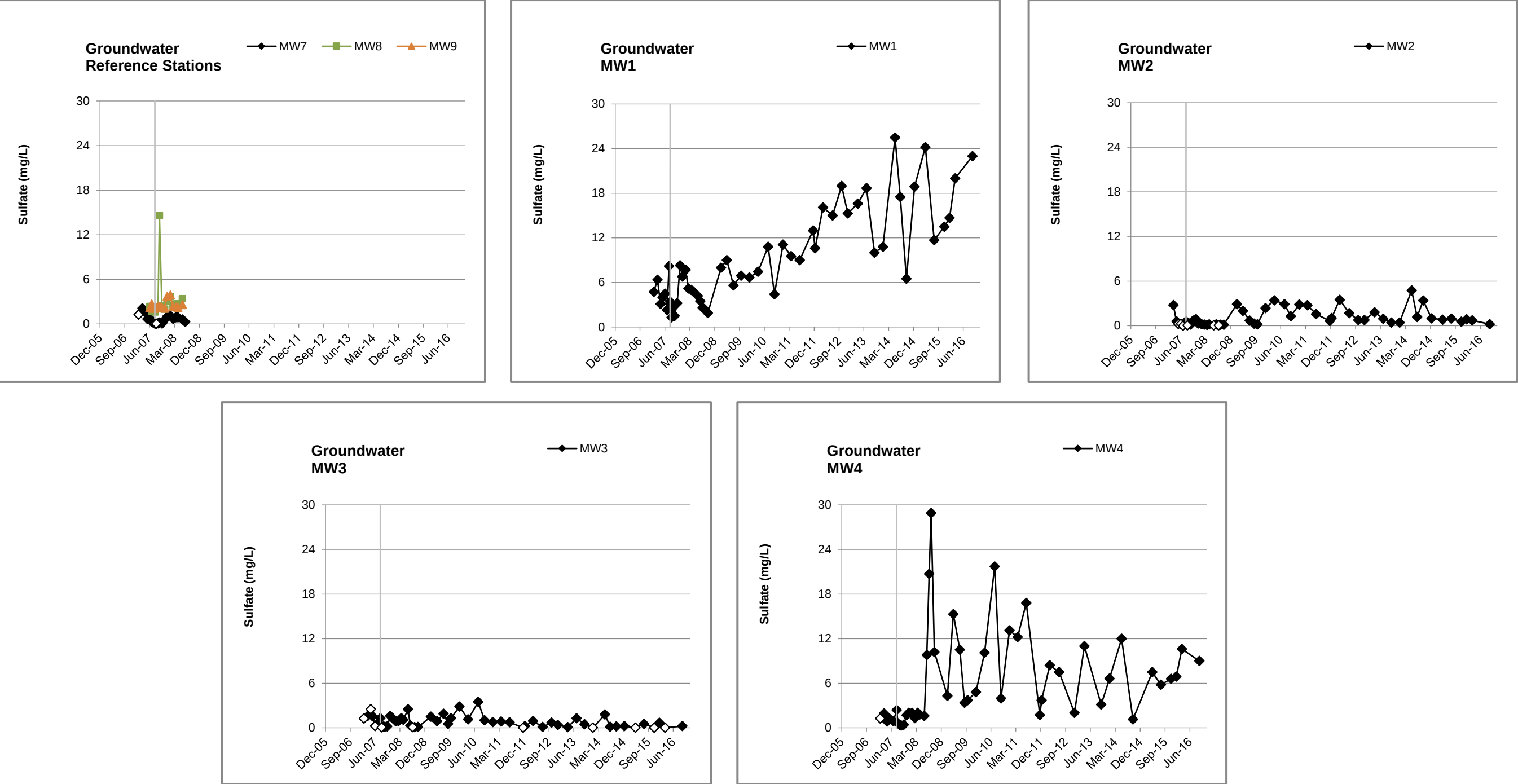
Permit Stations - Surface Water Sulfate (mg/L)



Notes:
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-7a.
 Time Series Plots: Sulfate
 Permit Stations - Surface Water
 Niblack Exploration Project

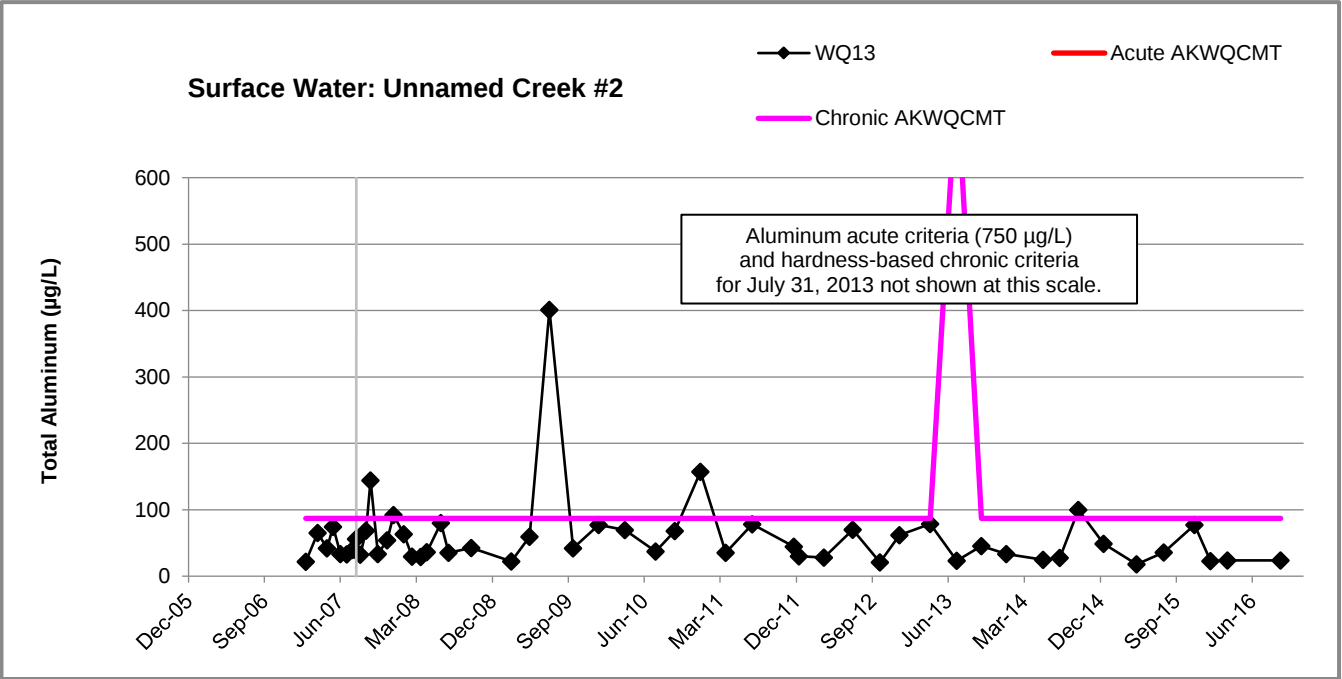
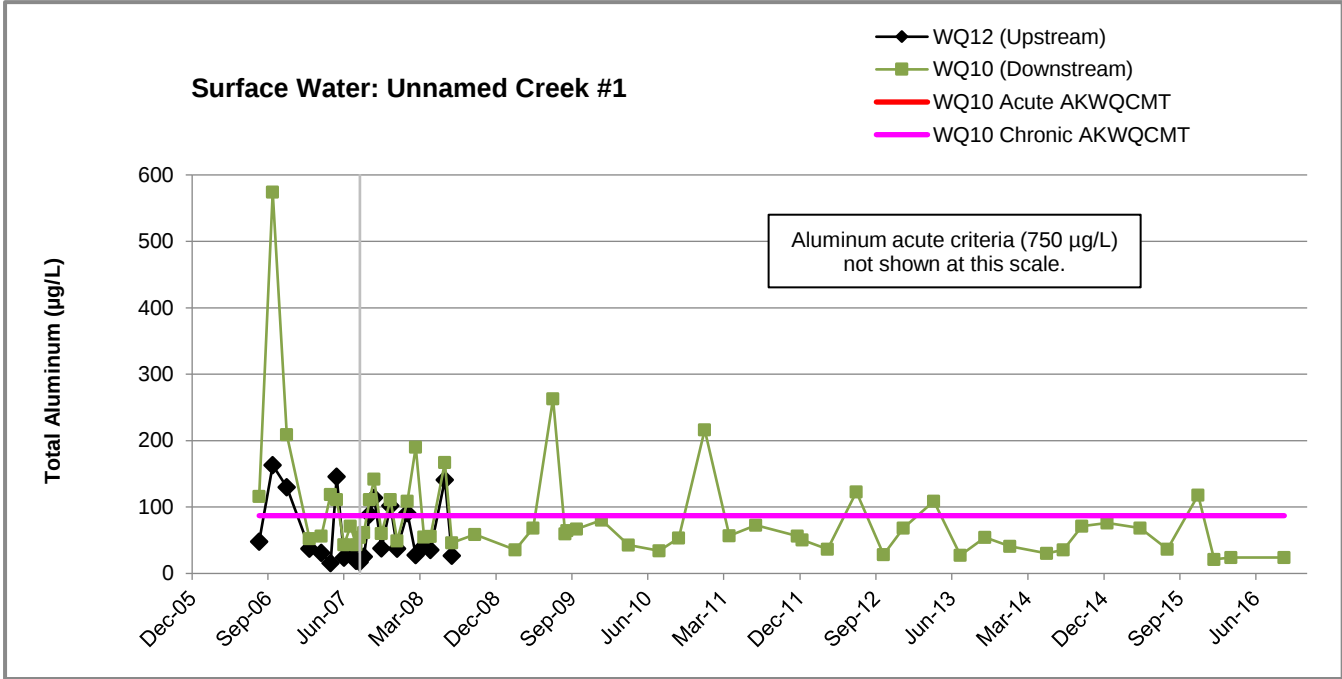
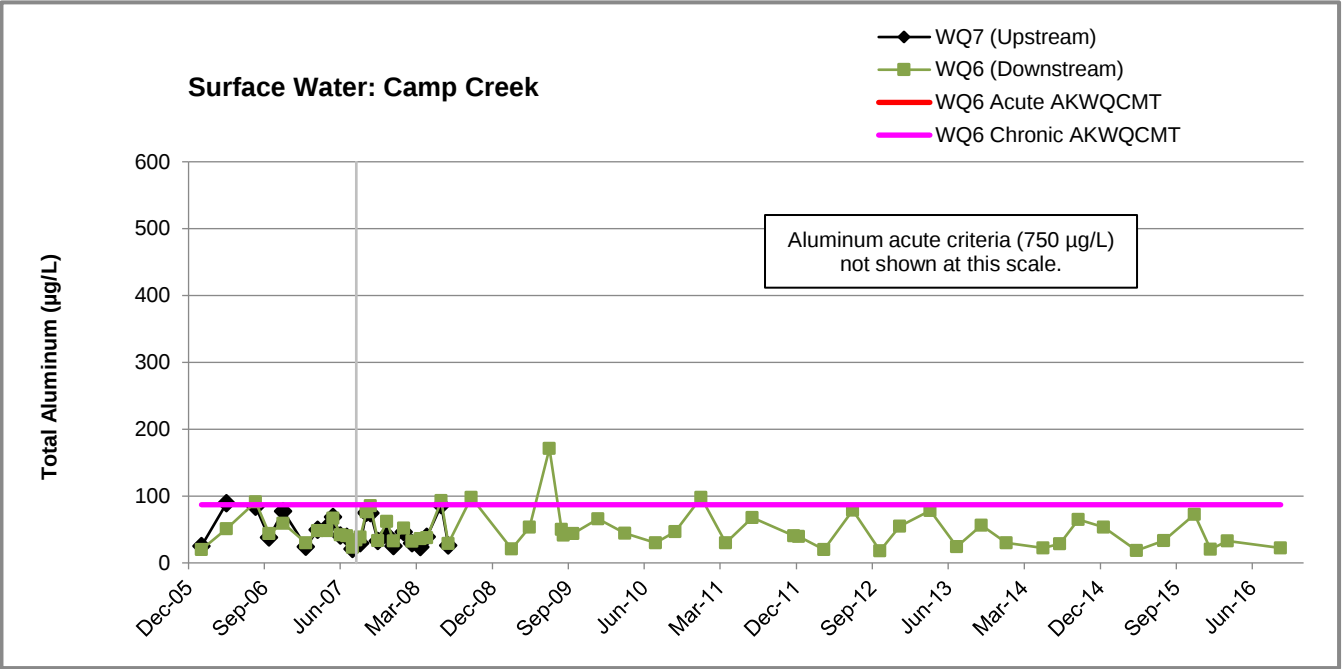
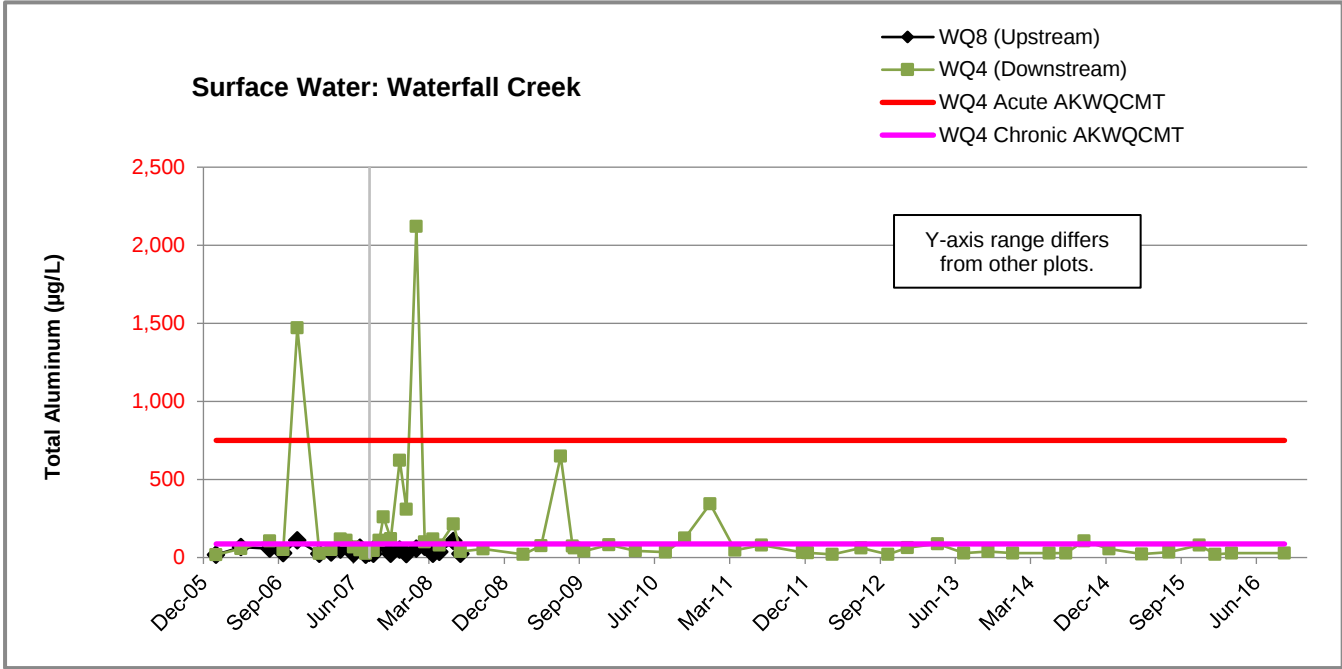
Permit Stations - Groundwater
Sulfate (mg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-7b.
Time Series Plots: Sulfate
Permit Stations - Groundwater
Niblack Exploration Project

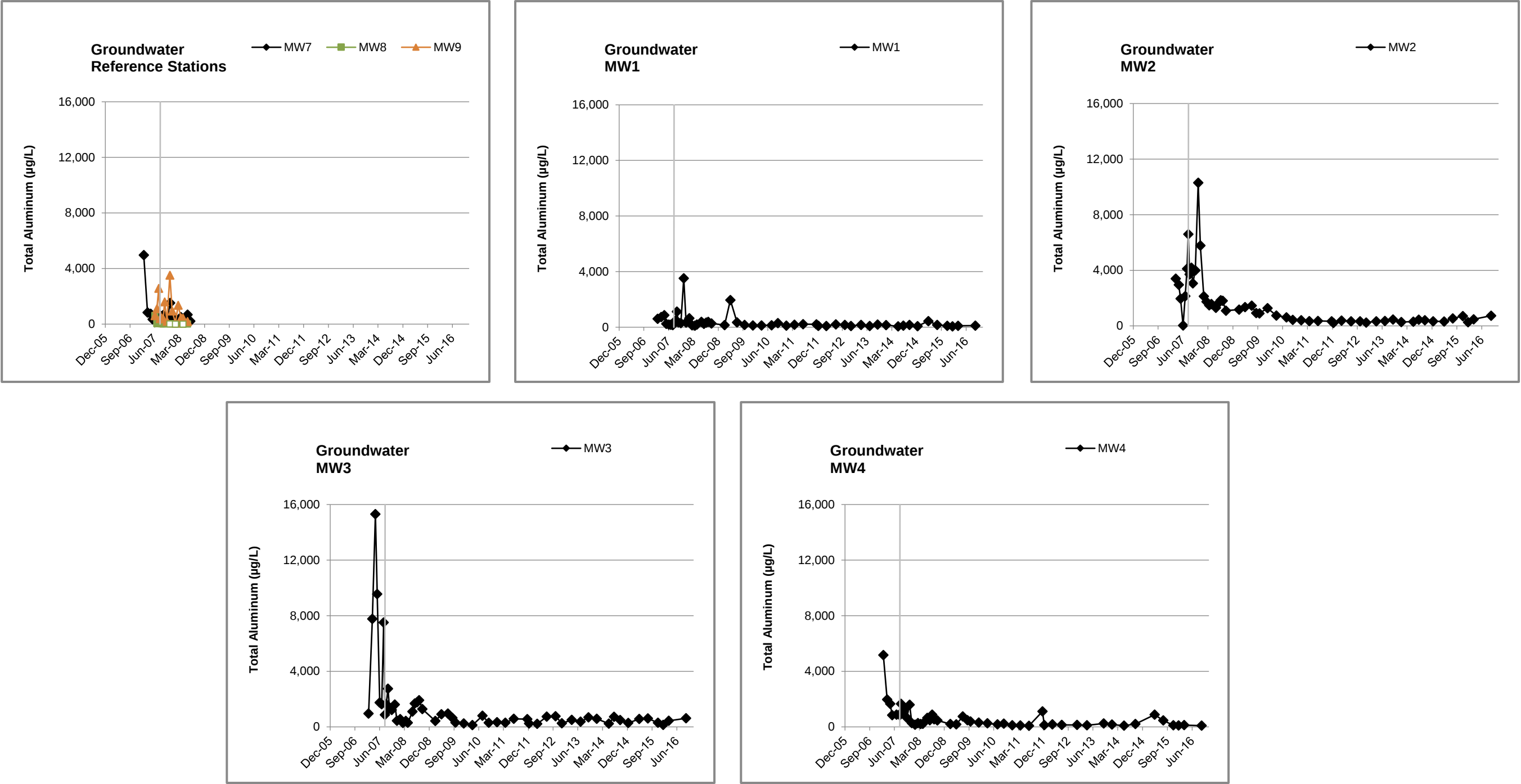
Permit Stations - Surface Water Total Aluminum (µg/L)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-8a.
Time Series Plots: Total Aluminum
Permit Stations - Surface Water
Niblack Exploration Project

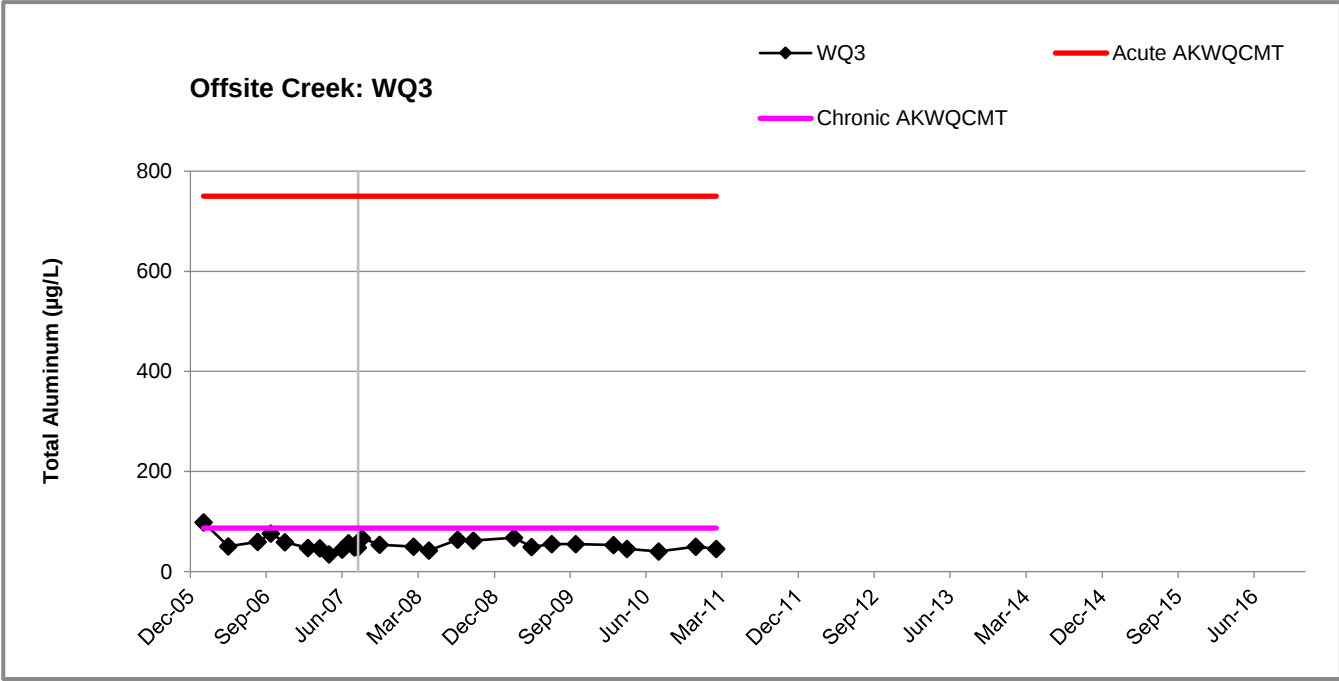
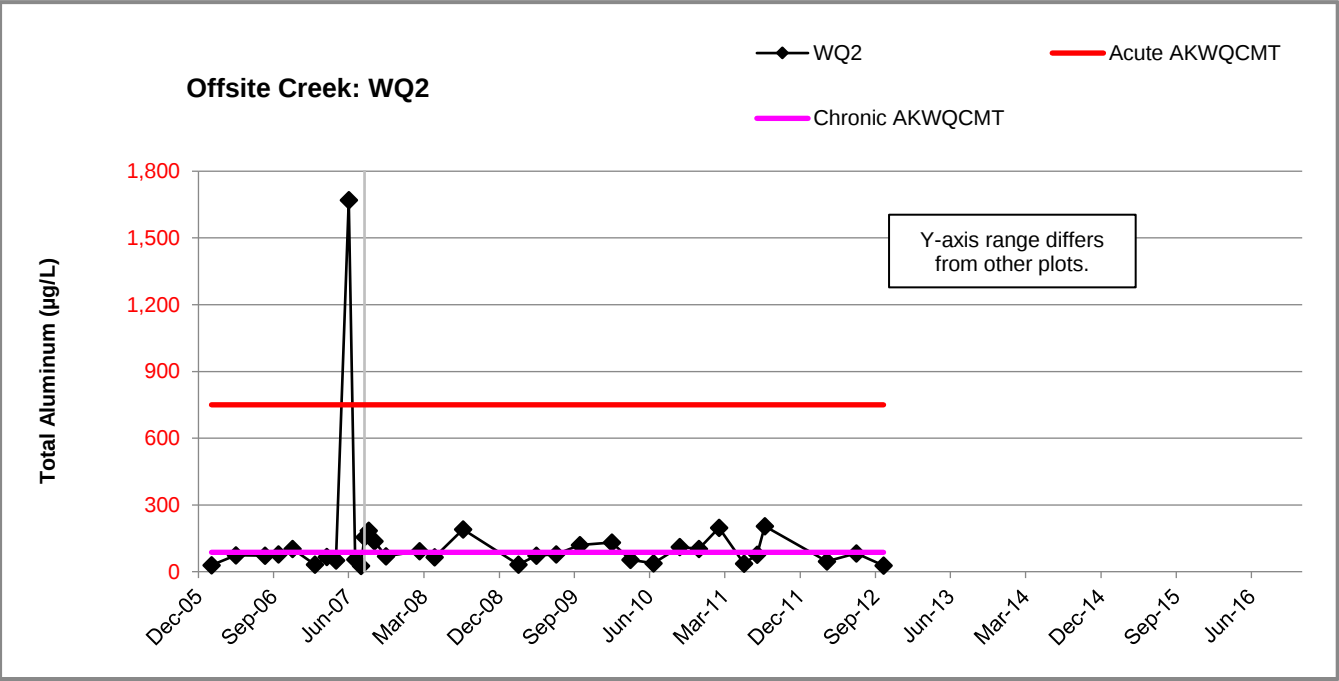
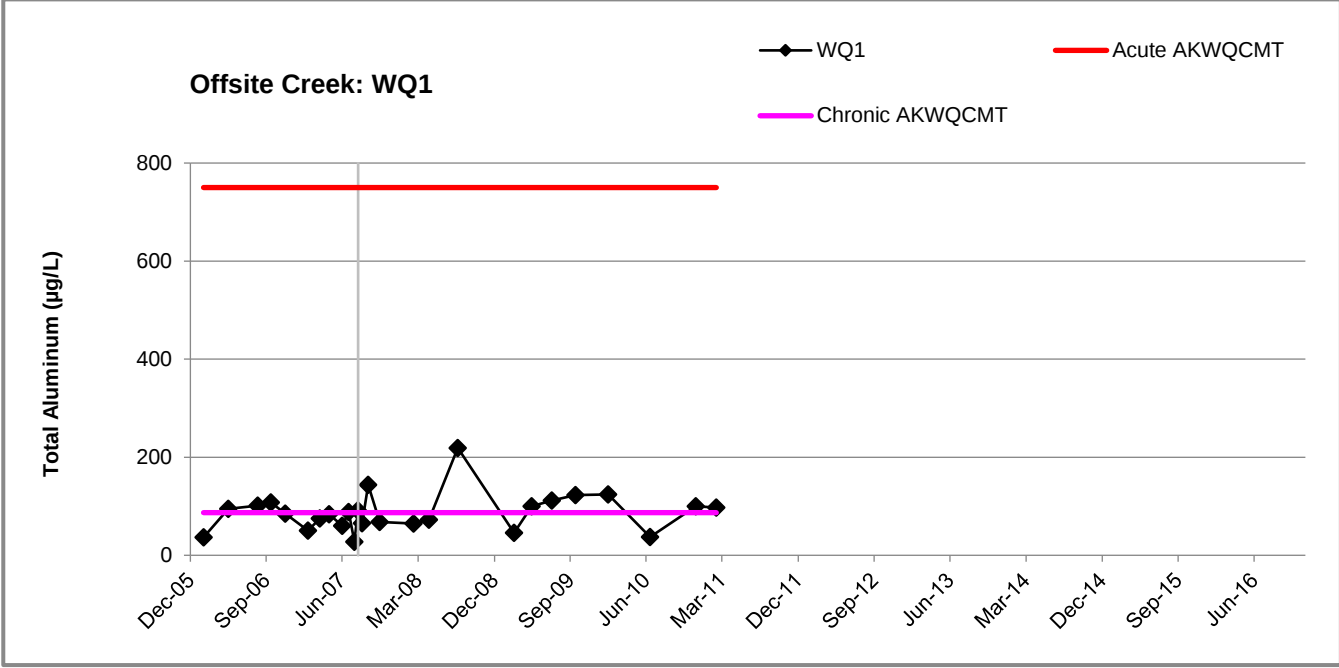
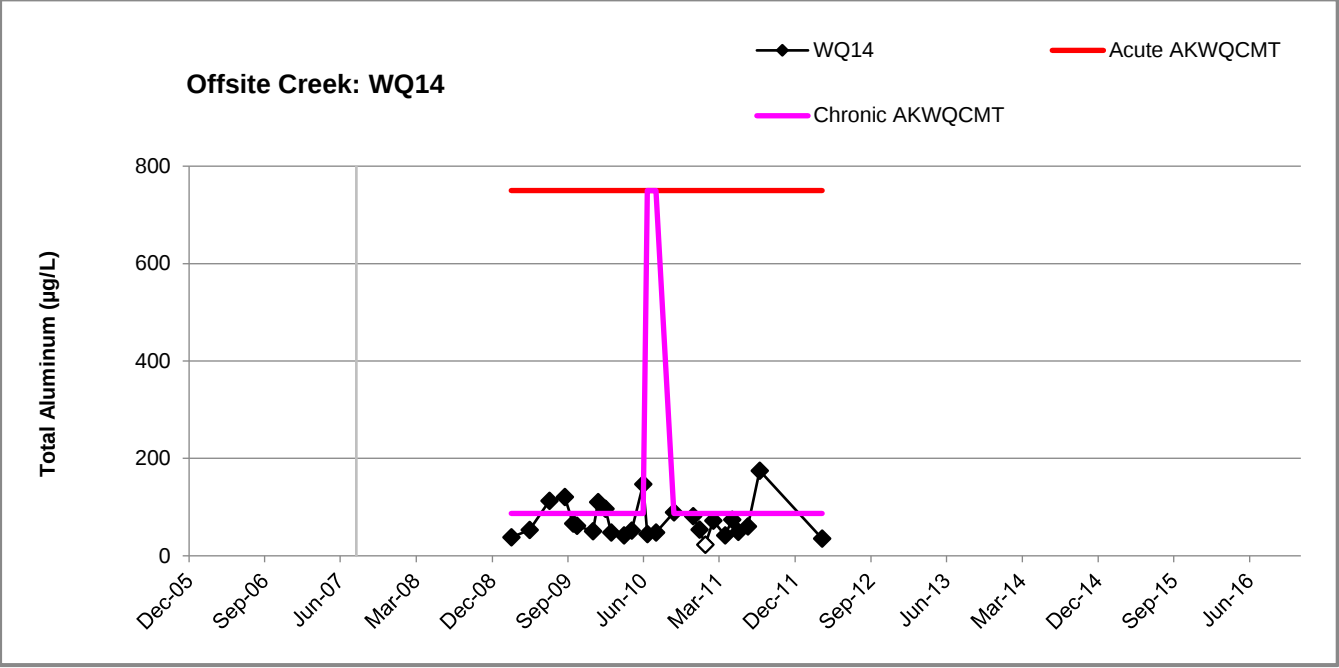
Permit Stations - Groundwater Total Aluminum (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-8b.
 Time Series Plots: Total Aluminum
 Permit Stations - Groundwater
 Niblack Exploration Project

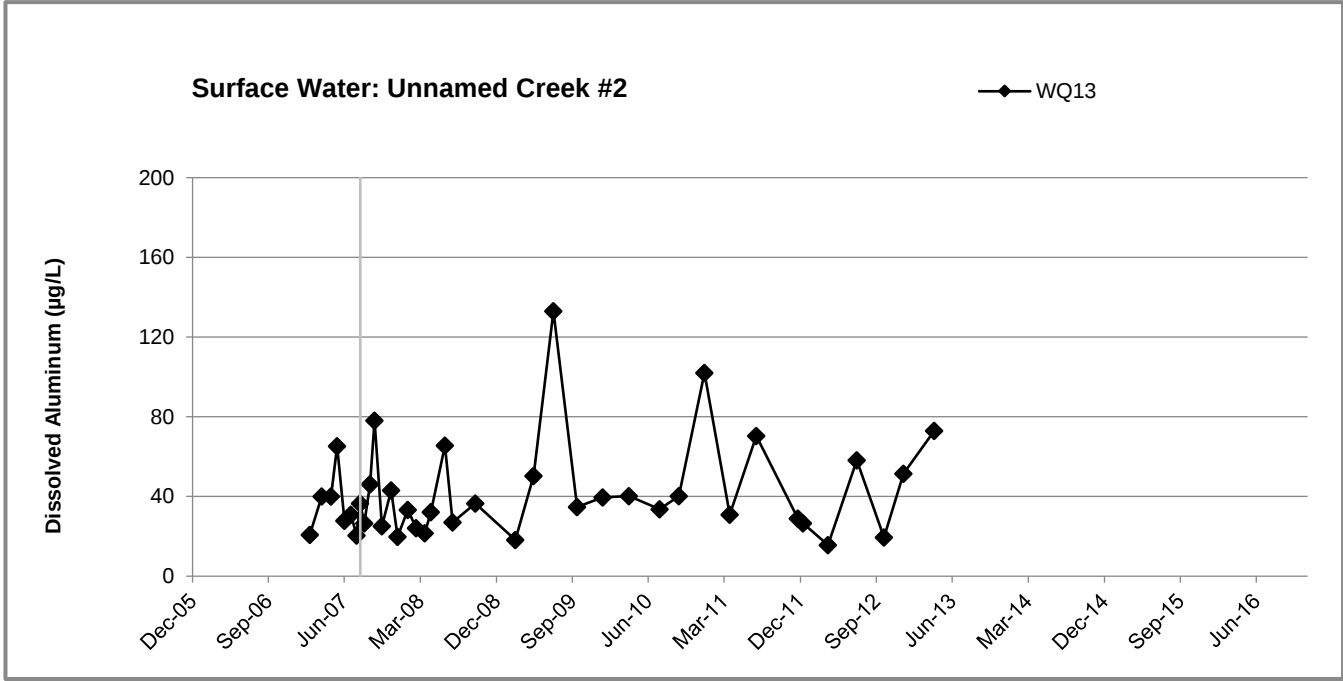
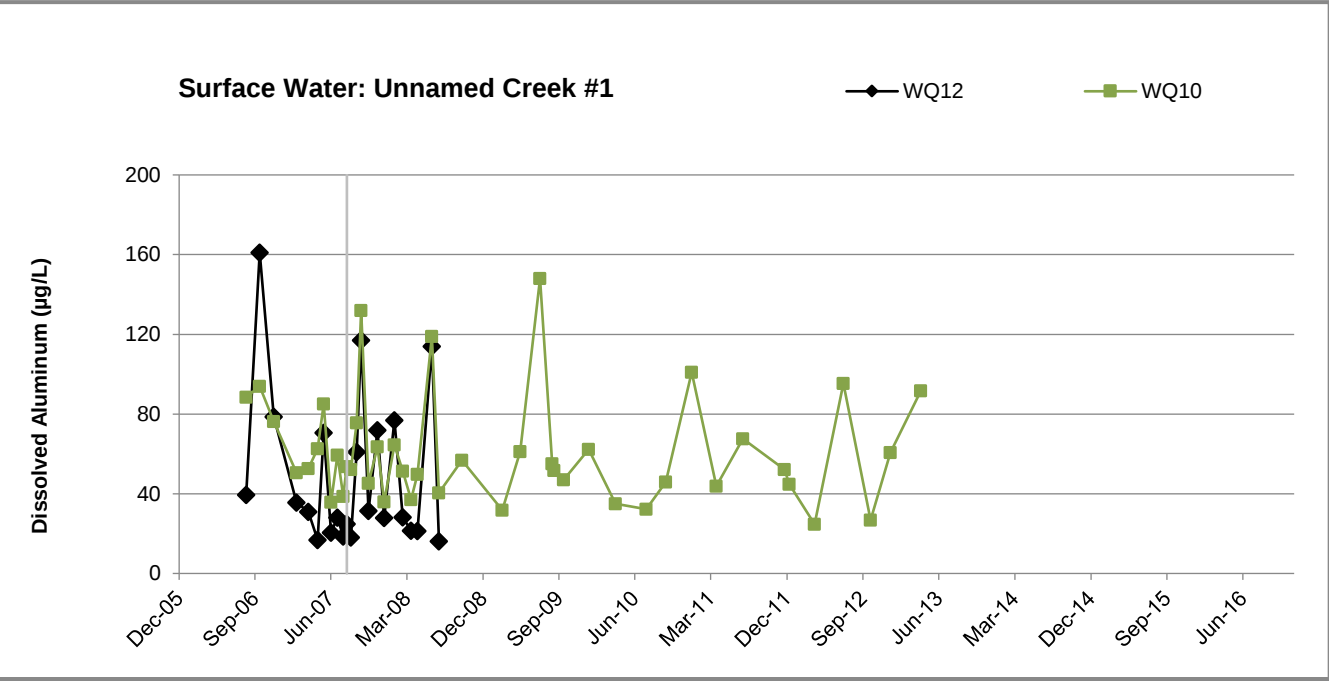
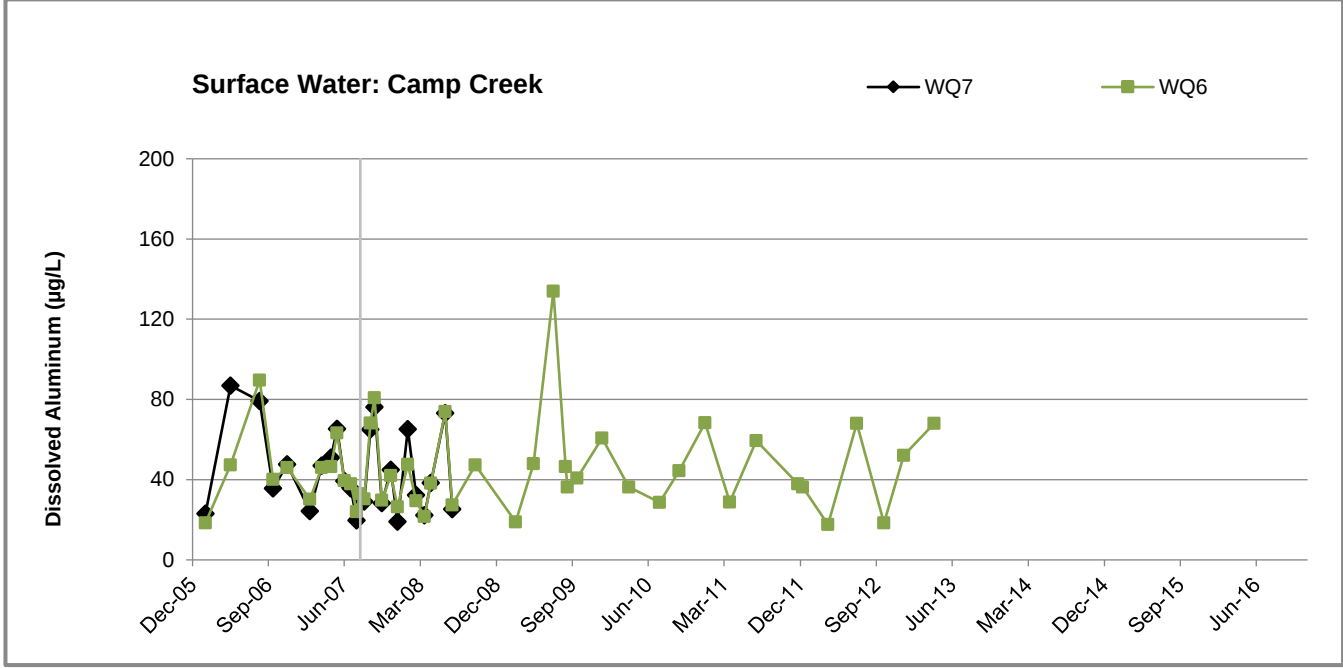
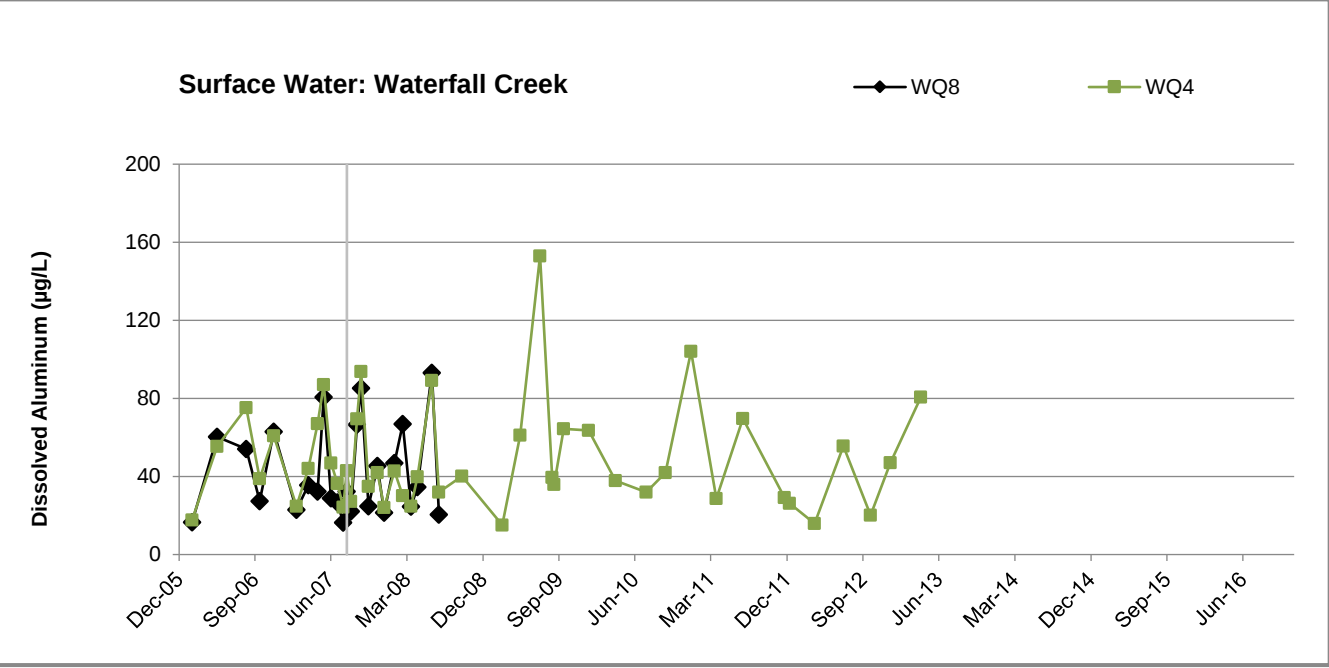
Offsite Surface Water Total Aluminum (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-8c.
Time Series Plots: Total Aluminum
Offsite Surface Water
Niblack Exploration Project

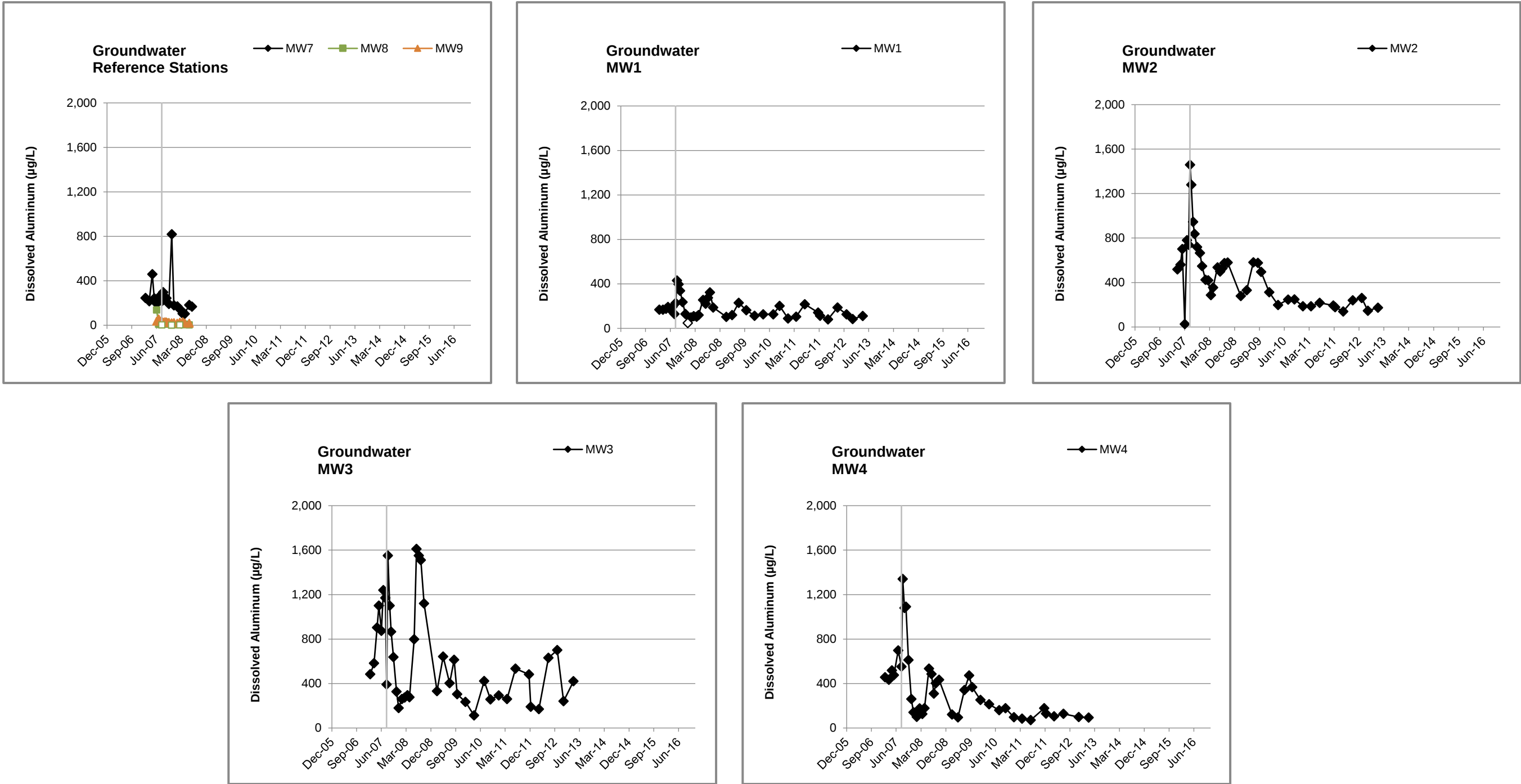
Permit Stations - Surface Water
Dissolved Aluminum (µg/L)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-9a.
Time Series Plots: Dissolved Aluminum
Permit Stations - Surface Water
Niblack Exploration Project

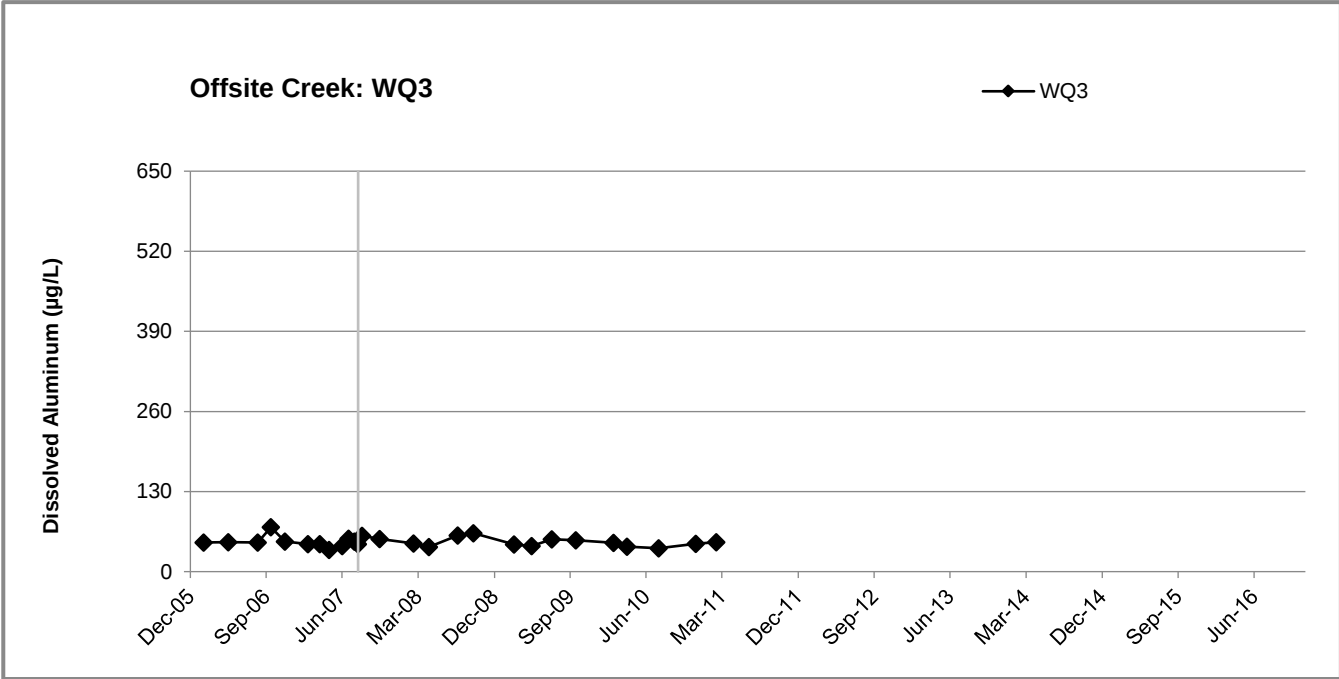
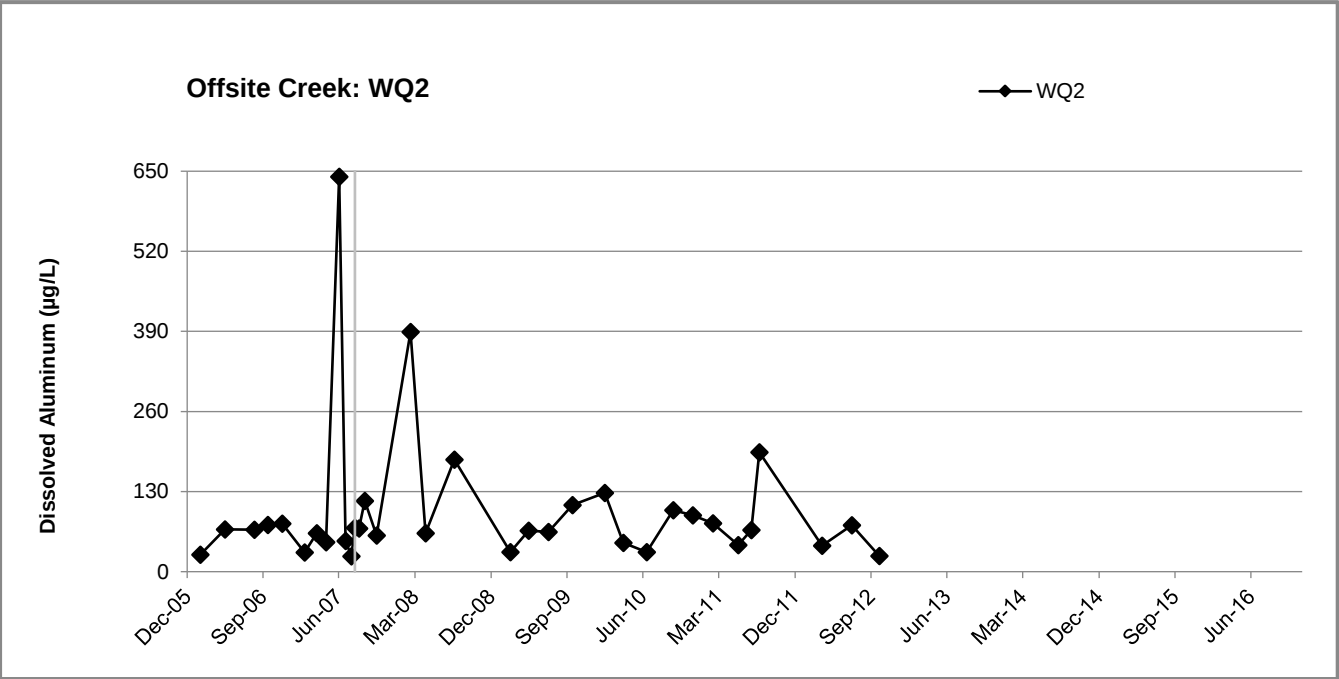
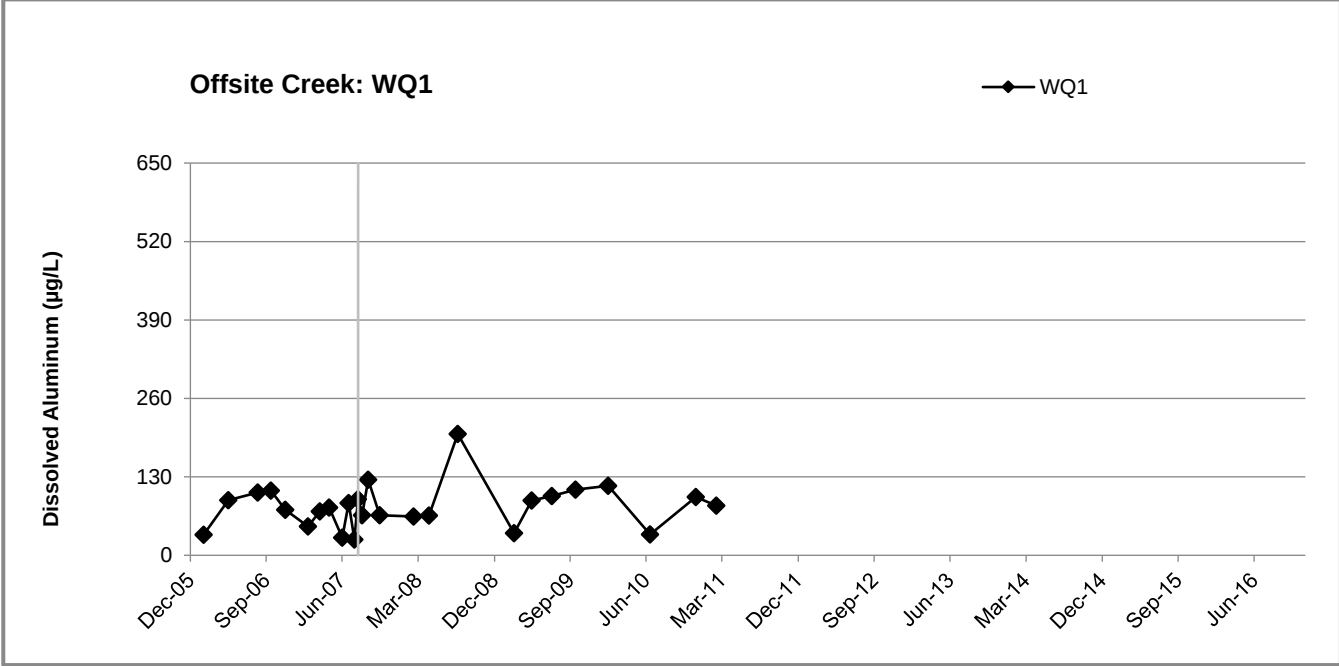
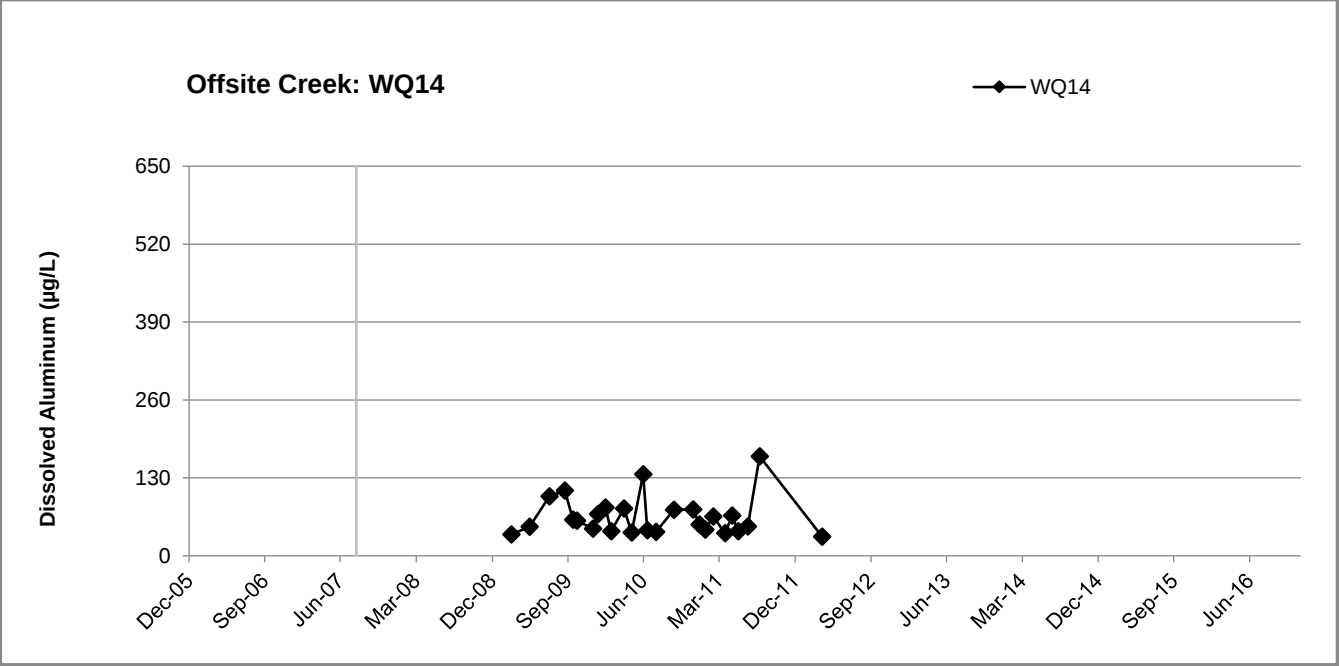
Permit Stations - Groundwater Dissolved Aluminum (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-9b.
 Time Series Plots: Dissolved Aluminum
 Permit Stations - Groundwater
 Niblack Exploration Project

Offsite Surface Water Dissolved Aluminum (µg/L)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-9c.
Time Series Plots: Dissolved Aluminum
Offsite Surface Water
Niblack Exploration Project

Permit Stations - Surface Water Total Arsenic (µg/L)

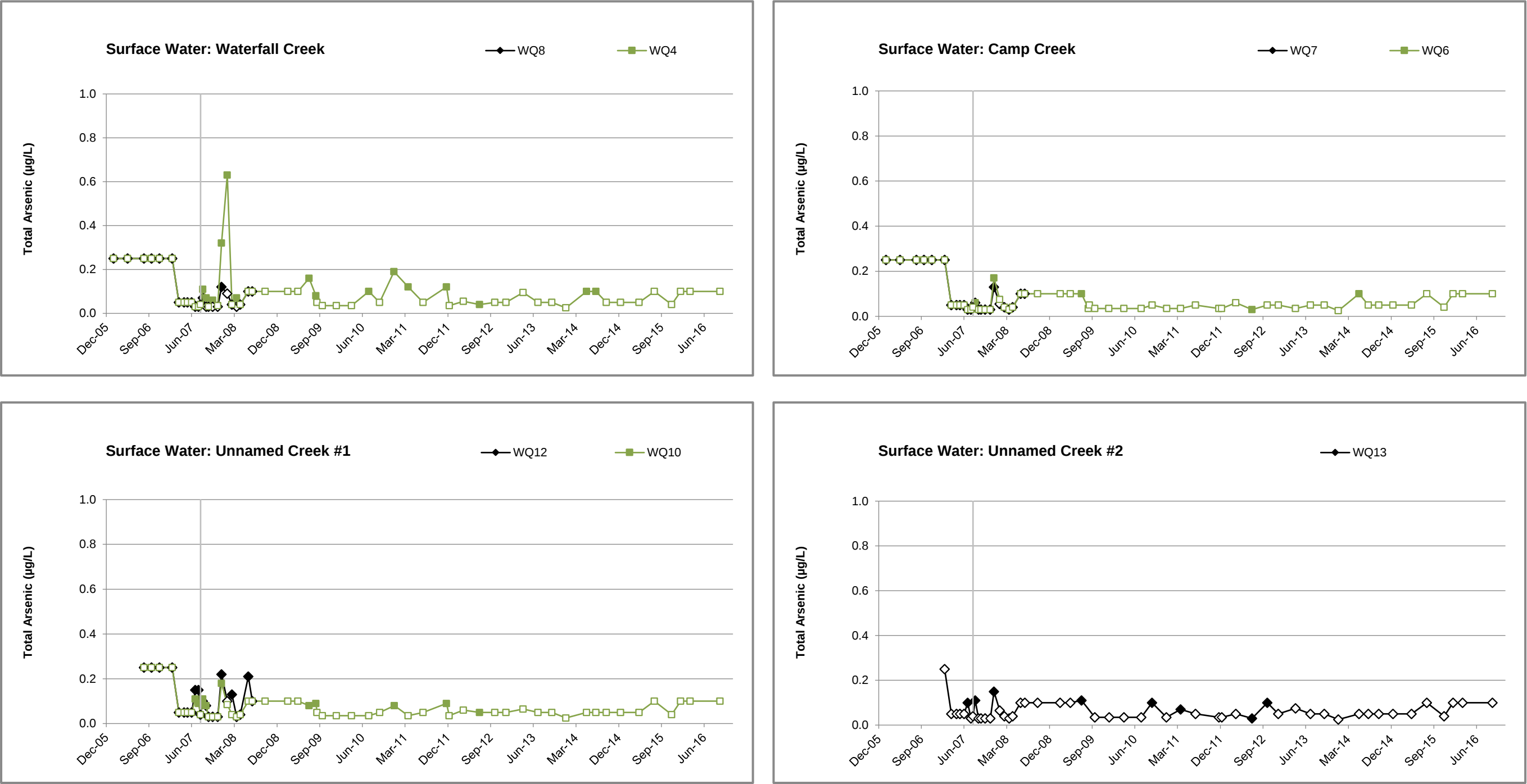
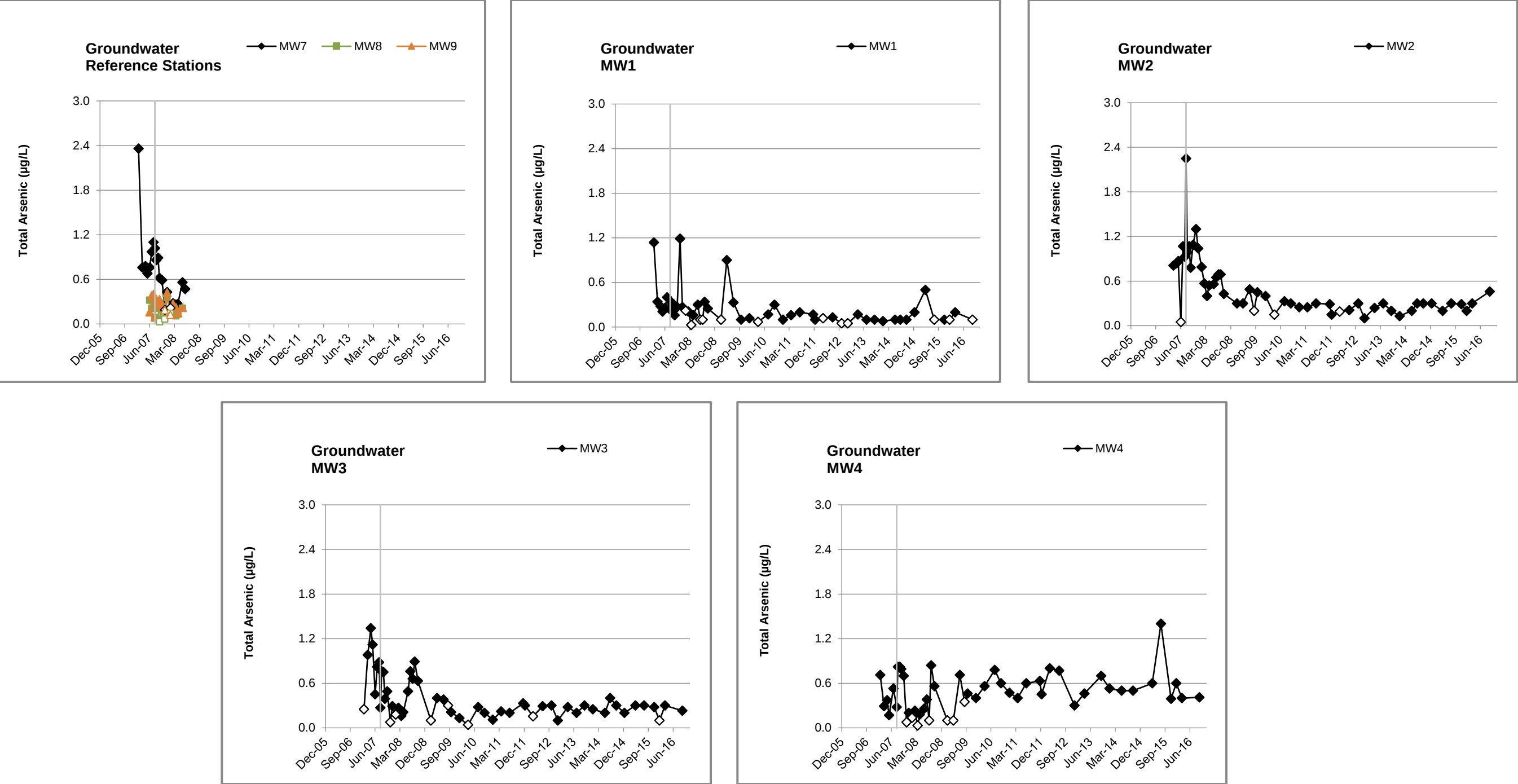


Figure 5-10a.
 Time Series Plots: Total Arsenic
 Permit Stations - Surface Water
 Niblack Exploration Project

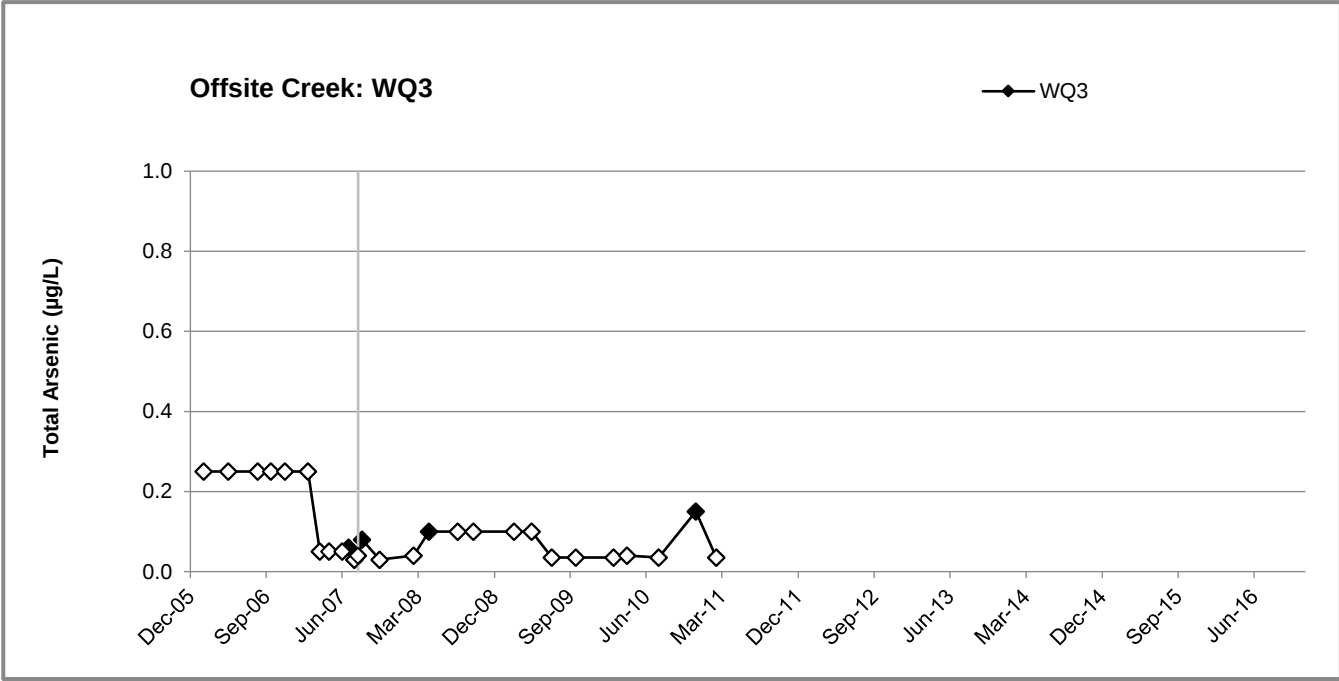
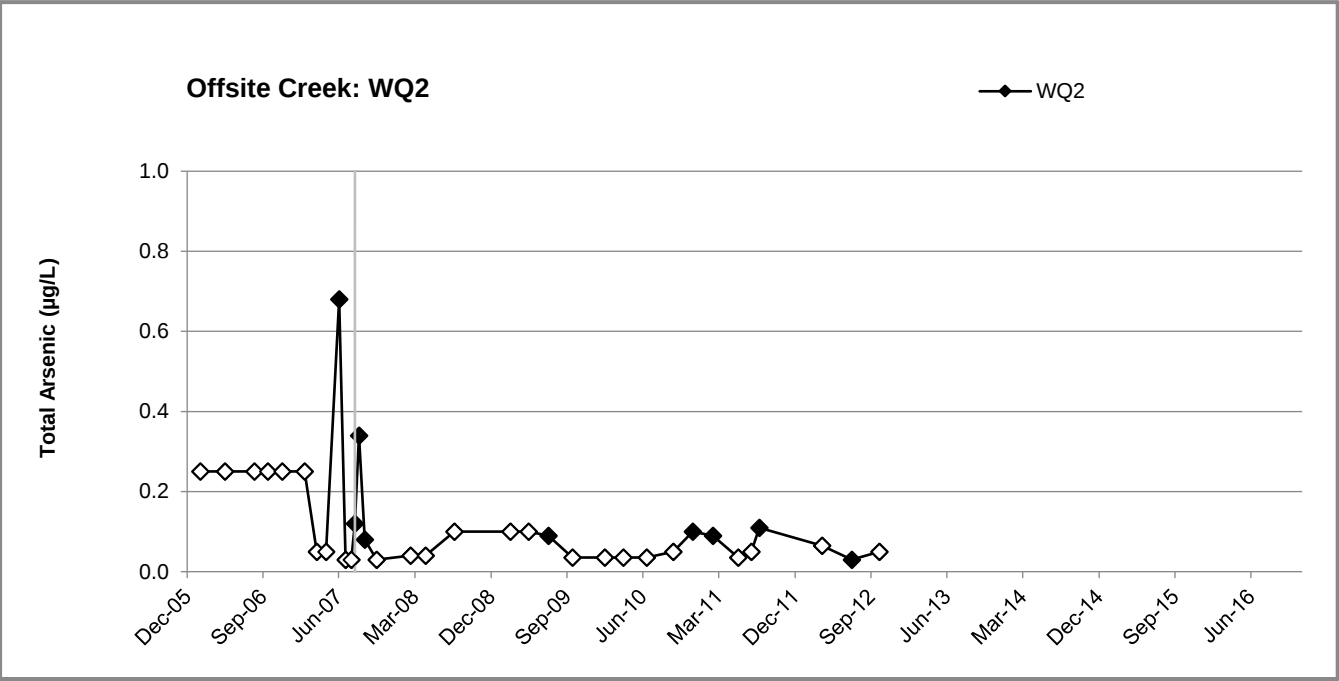
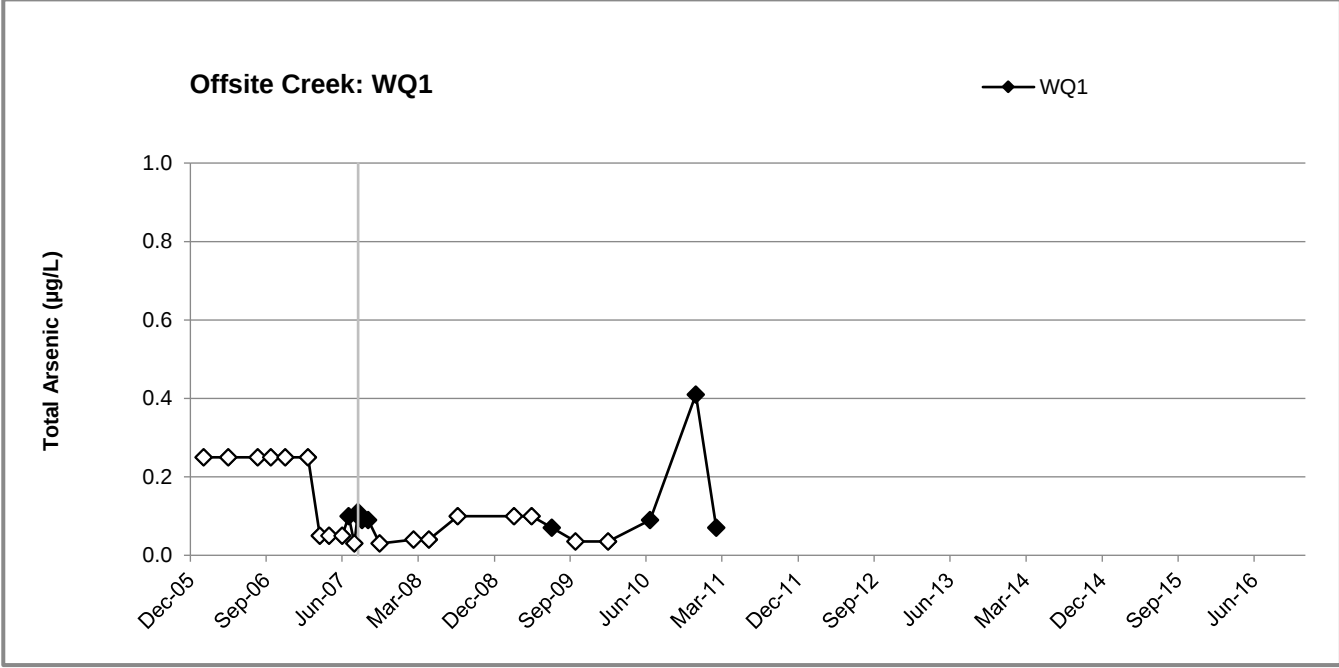
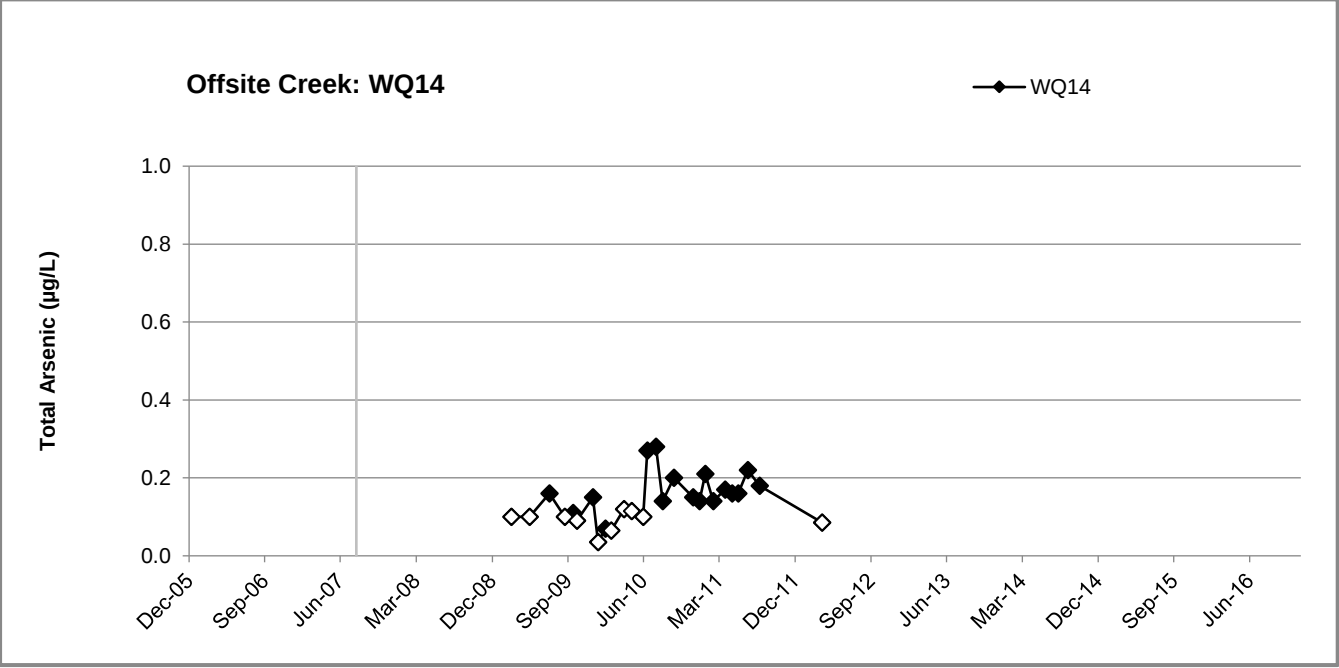
Permit Stations - Groundwater
Total Arsenic (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-10b.
Time Series Plots: Total Arsenic
Permit Stations - Groundwater
Niblack Exploration Project

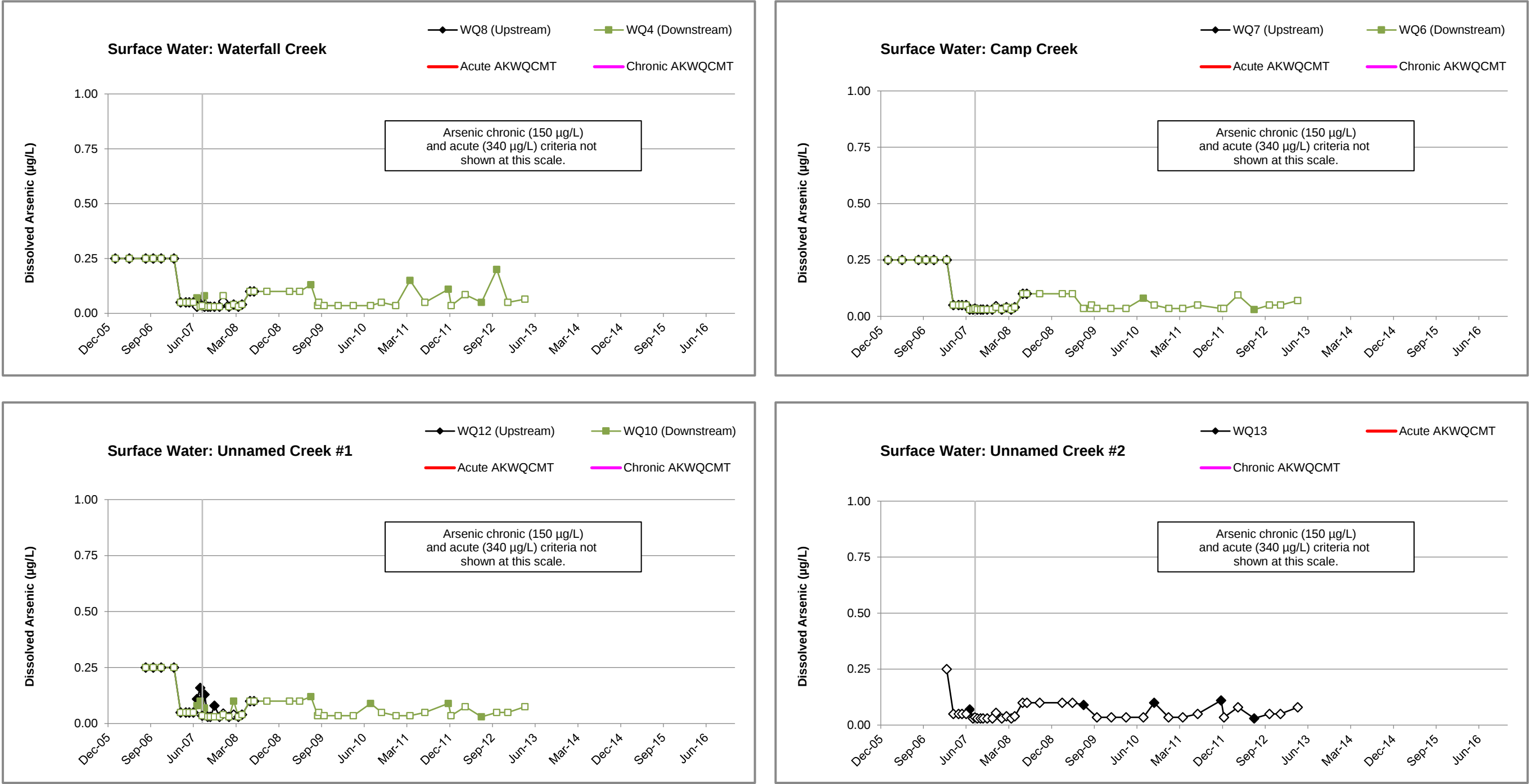
Offsite Surface Water Total Arsenic (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-10c.
Time Series Plots: Total Arsenic
Offsite Surface Water
Niblack Exploration Project

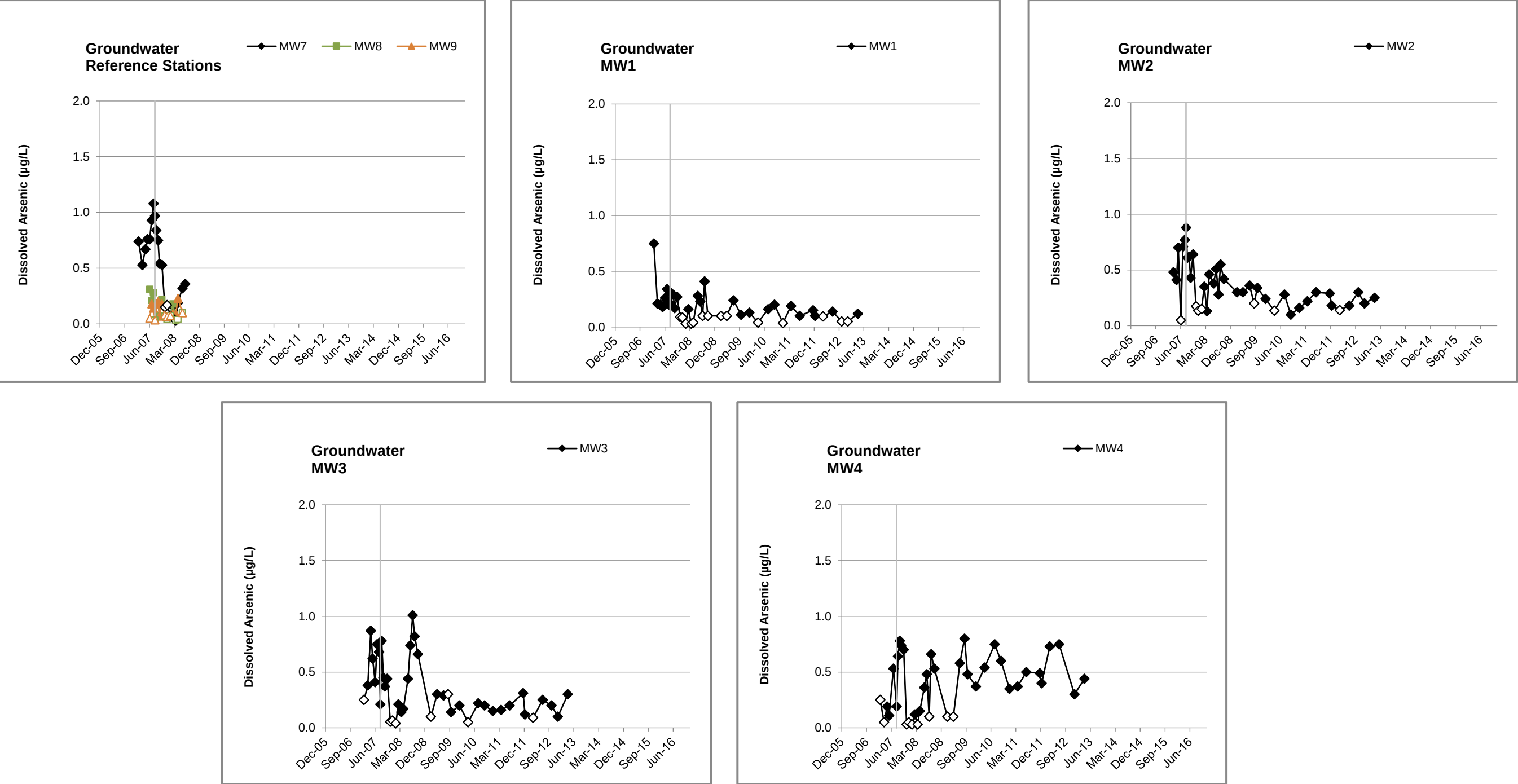
Permit Stations - Surface Water Dissolved Arsenic (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-11a.
 Time Series Plots: Dissolved Arsenic
 Permit Stations - Surface Water
 Niblack Exploration Project

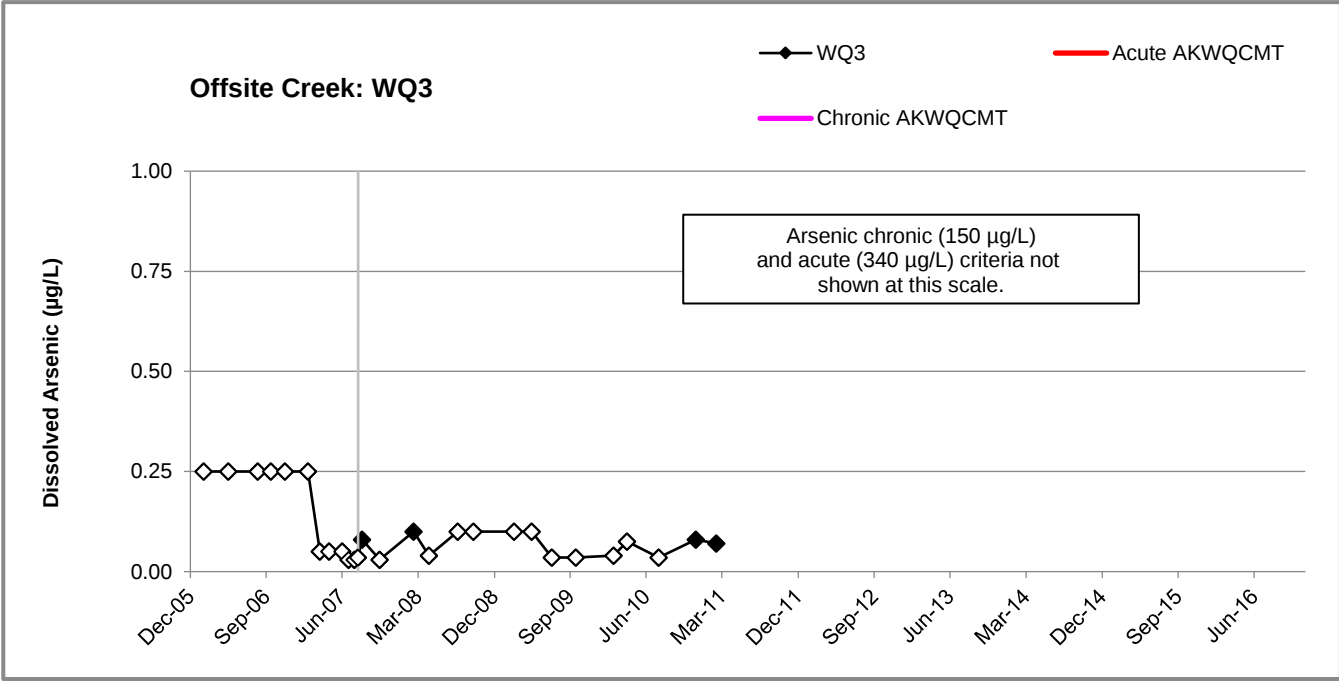
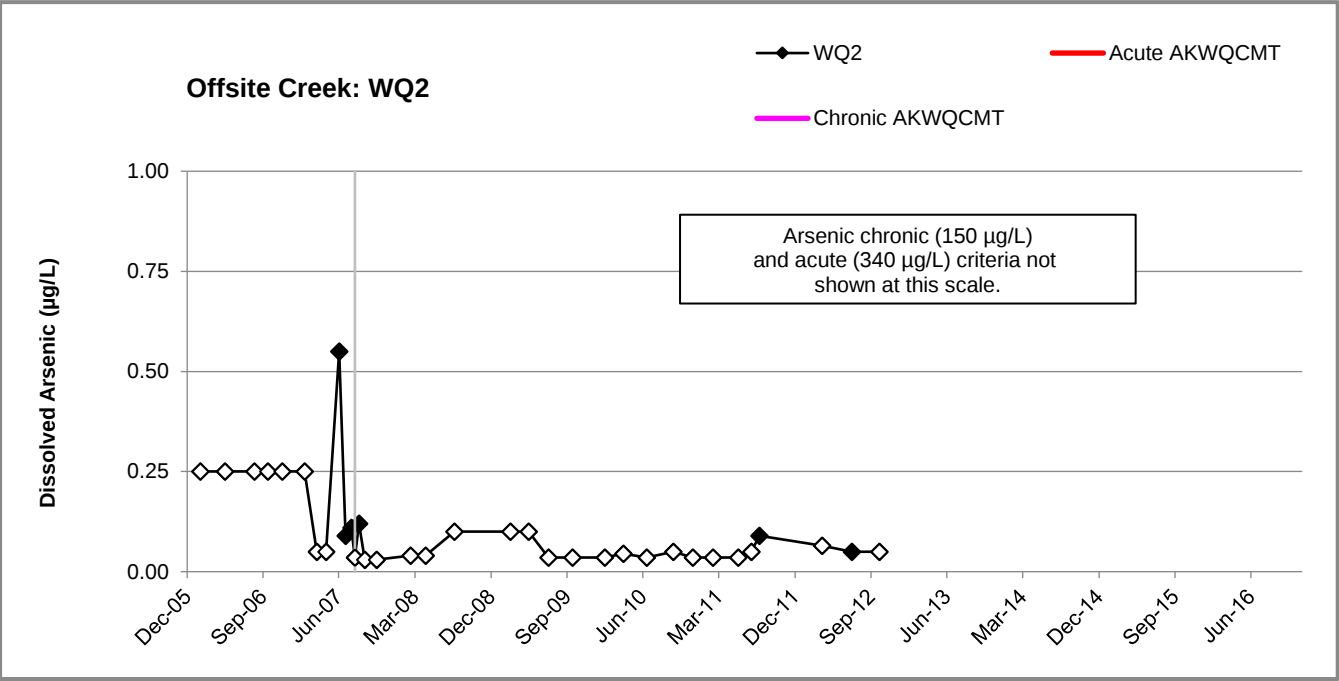
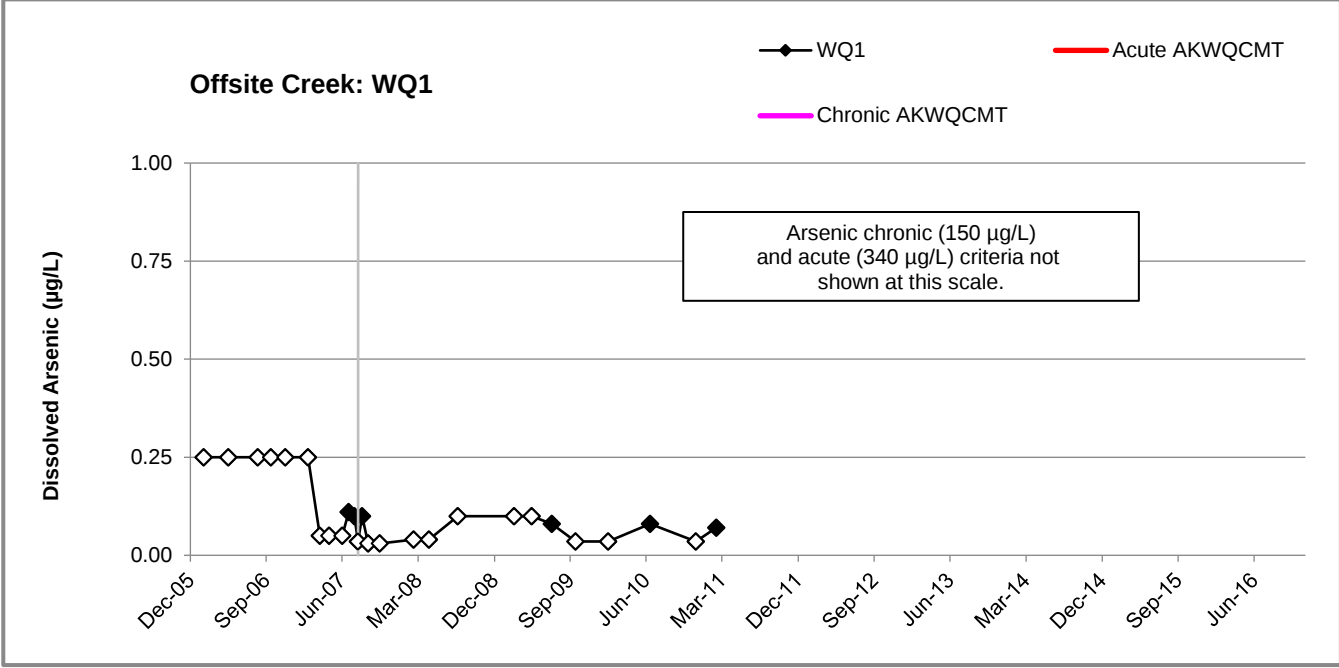
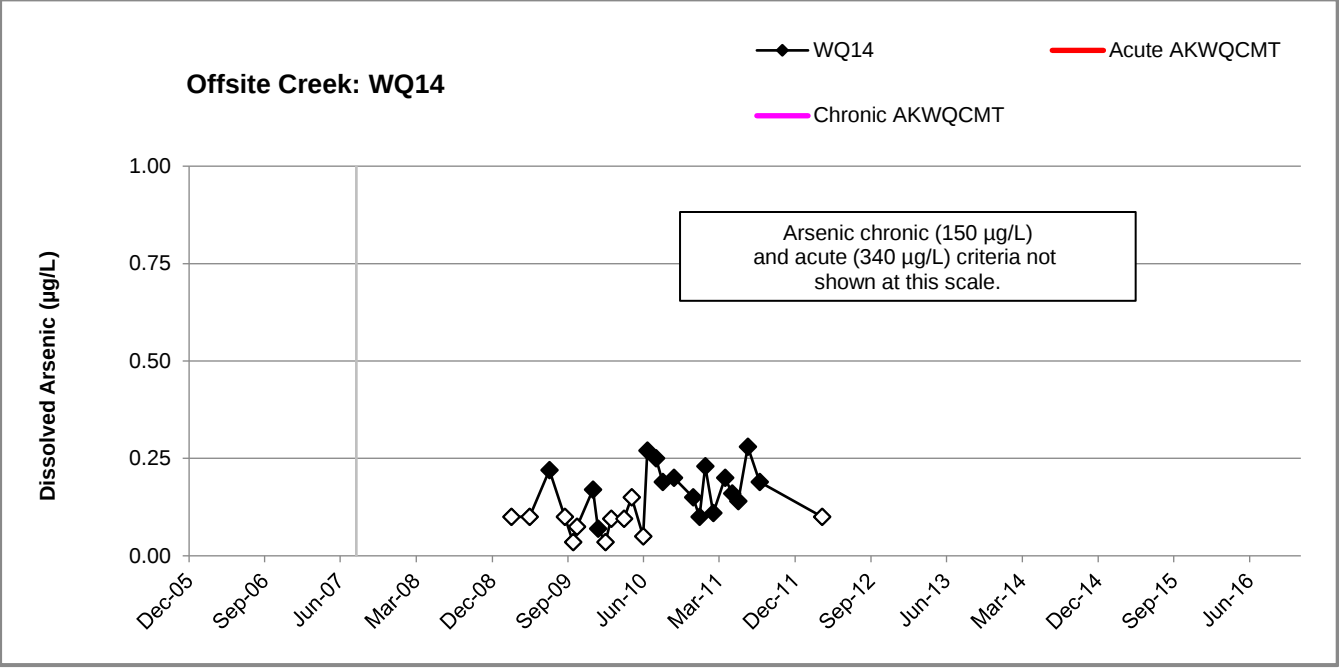
Permit Stations - Groundwater
Dissolved Arsenic (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-11b.
Time Series Plots: Dissolved Arsenic
Permit Stations - Groundwater
Niblack Exploration Project

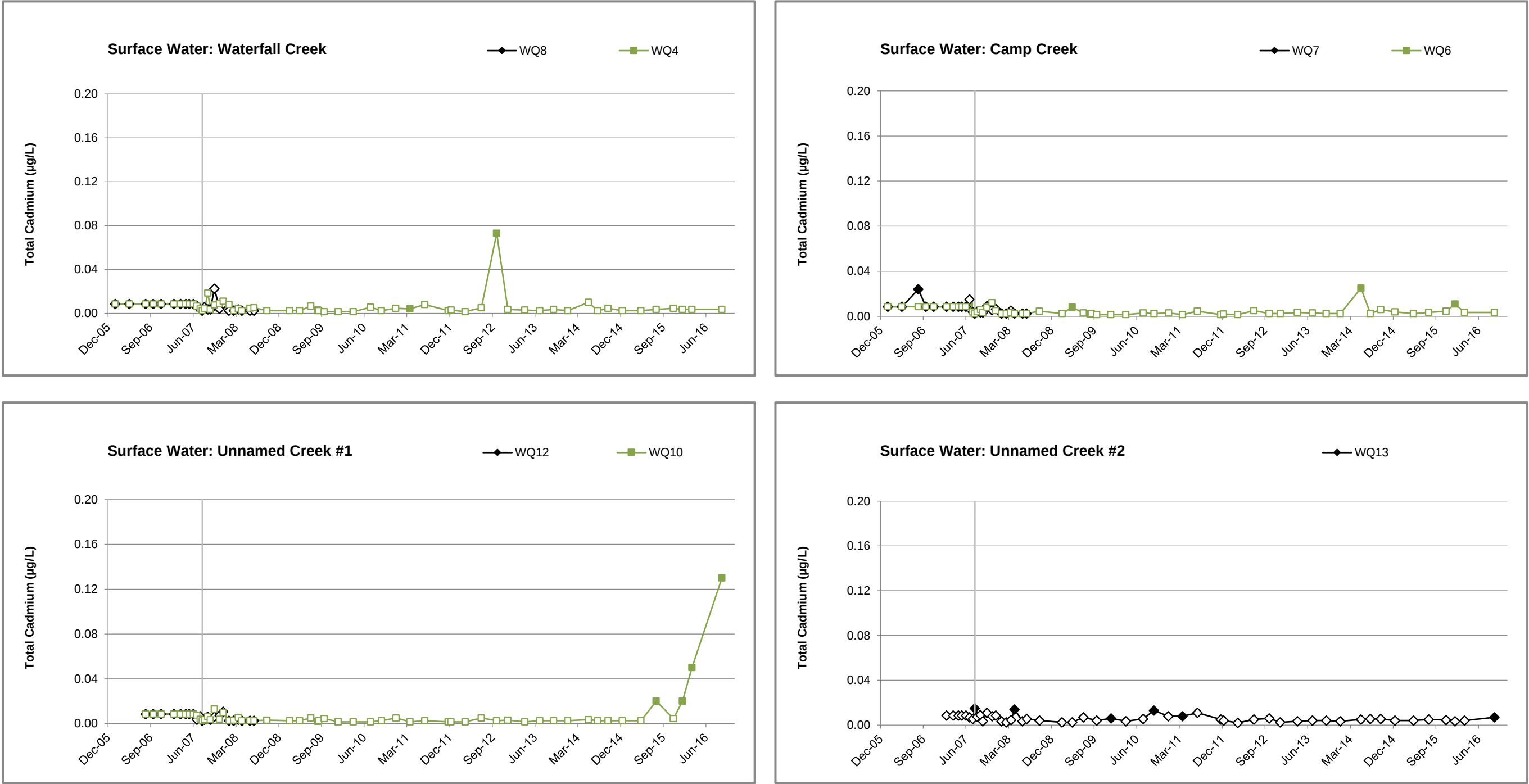
Offsite Surface Water Dissolved Arsenic (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-11c.
Time Series Plots: Dissolved Arsenic
Offsite Surface Water
Niblack Exploration Project

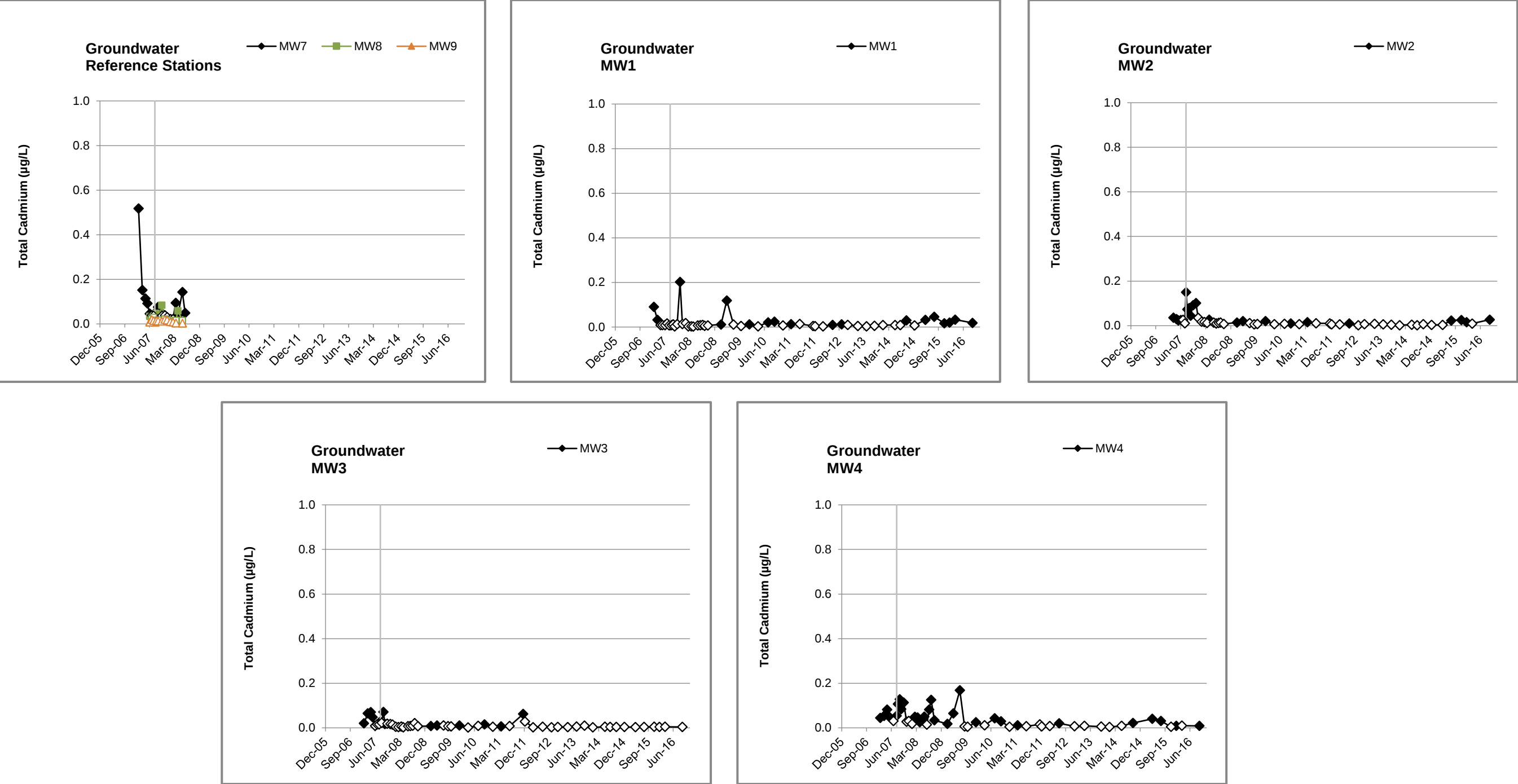
Permit Stations - Surface Water Total Cadmium (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-12a.
 Time Series Plots: Total Cadmium
 Permit Stations - Surface Water
 Niblack Exploration Project

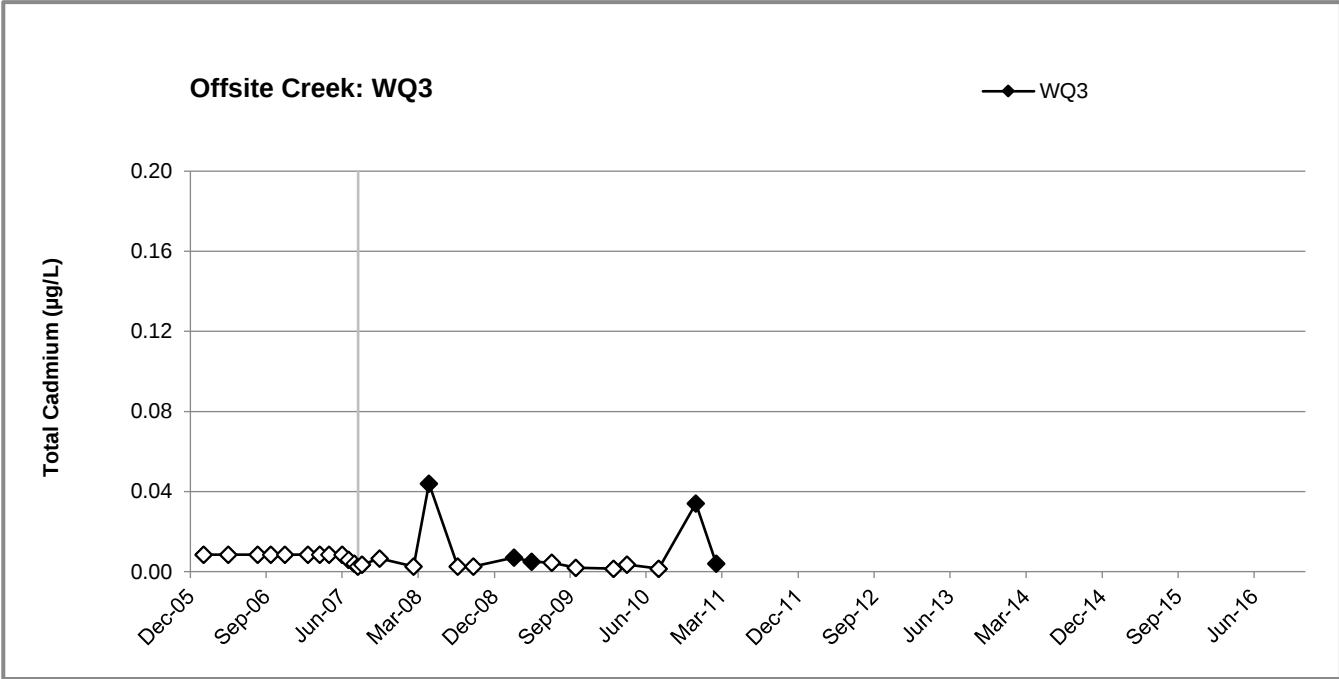
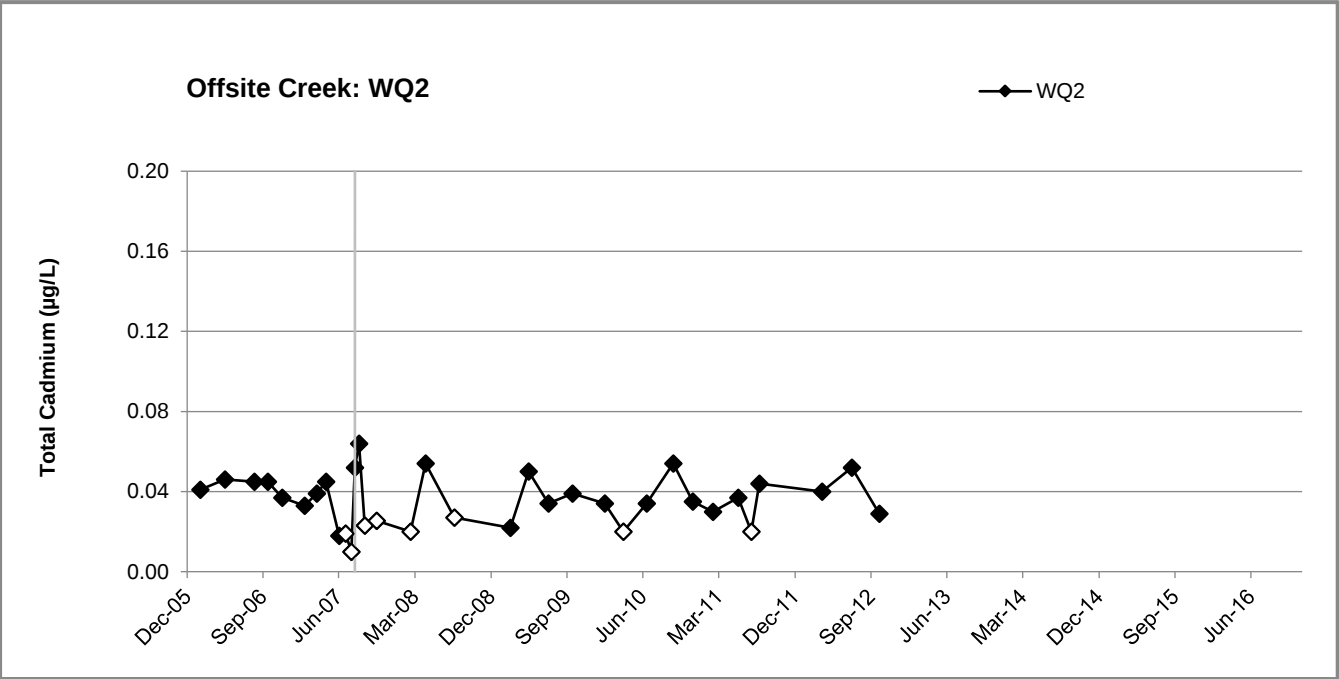
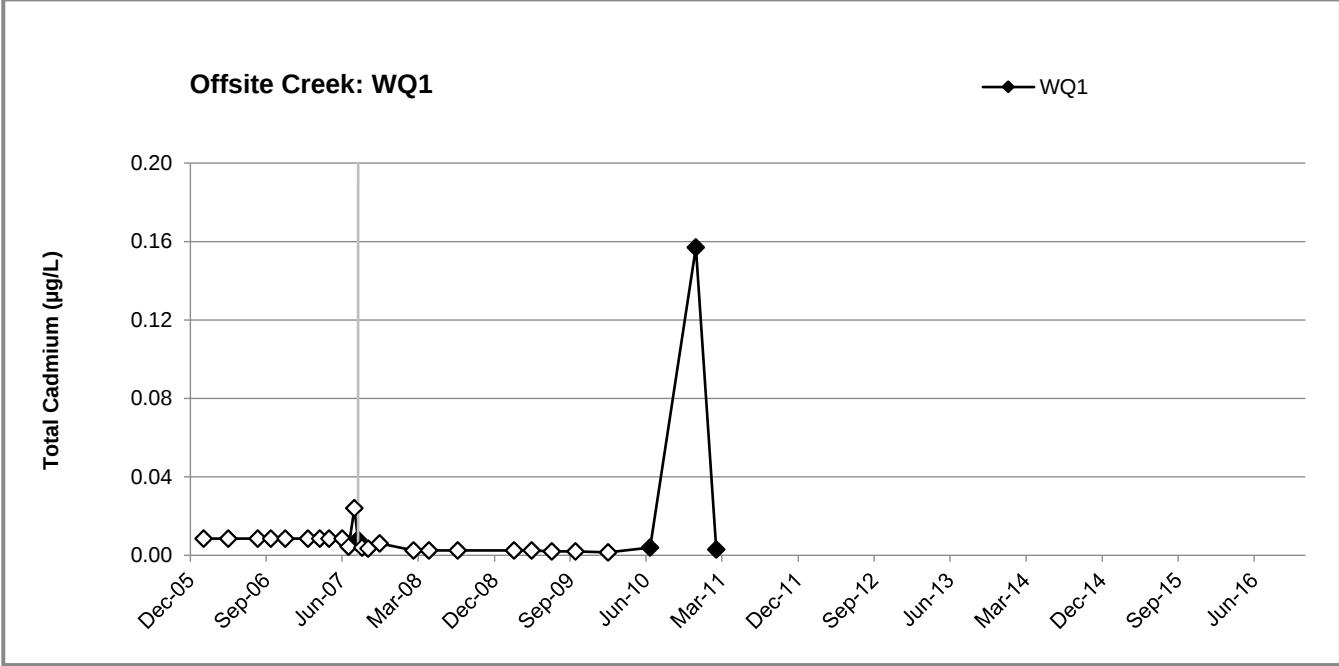
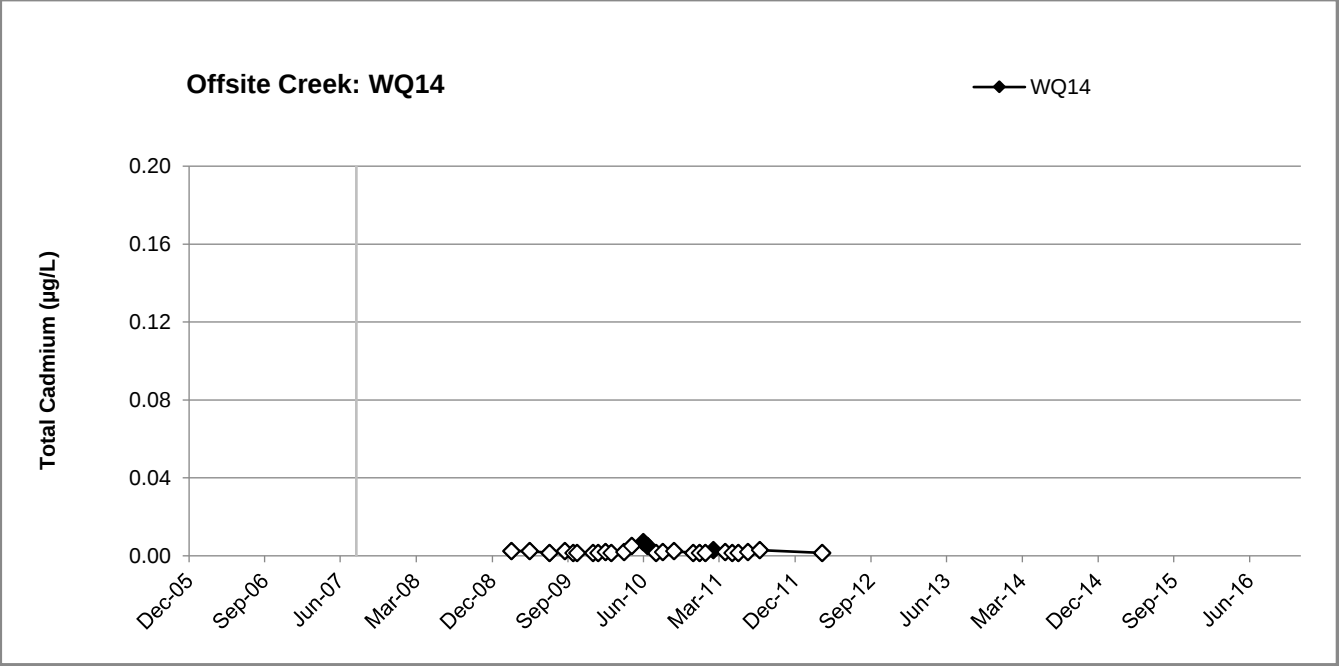
Permit Stations - Groundwater
Total Cadmium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-12b.
Time Series Plots: Total Cadmium
Permit Stations - Groundwater
Niblack Exploration Project

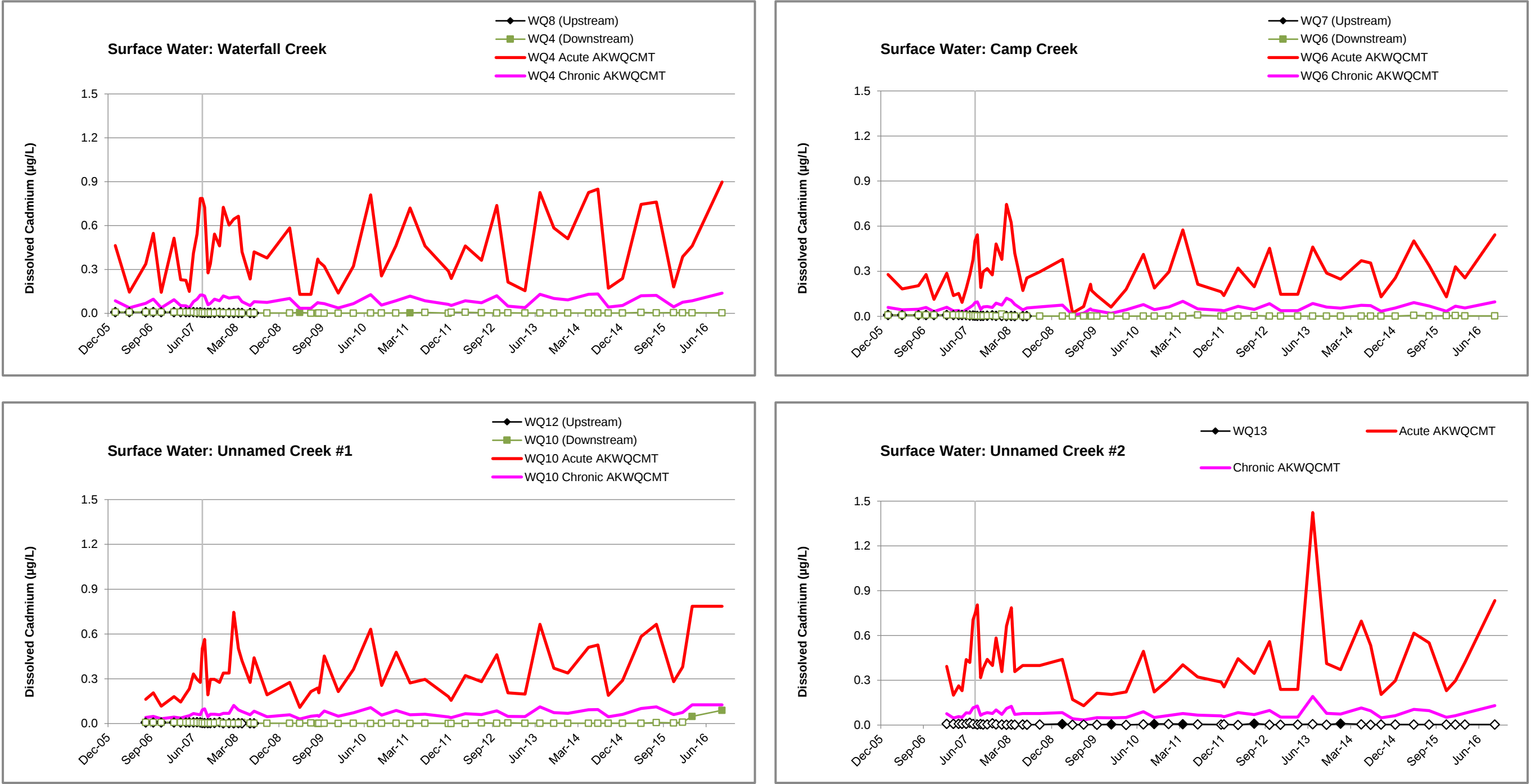
Offsite Surface Water Total Cadmium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-12c.
Time Series Plots: Total Cadmium
Offsite Surface Water
Niblack Exploration Project

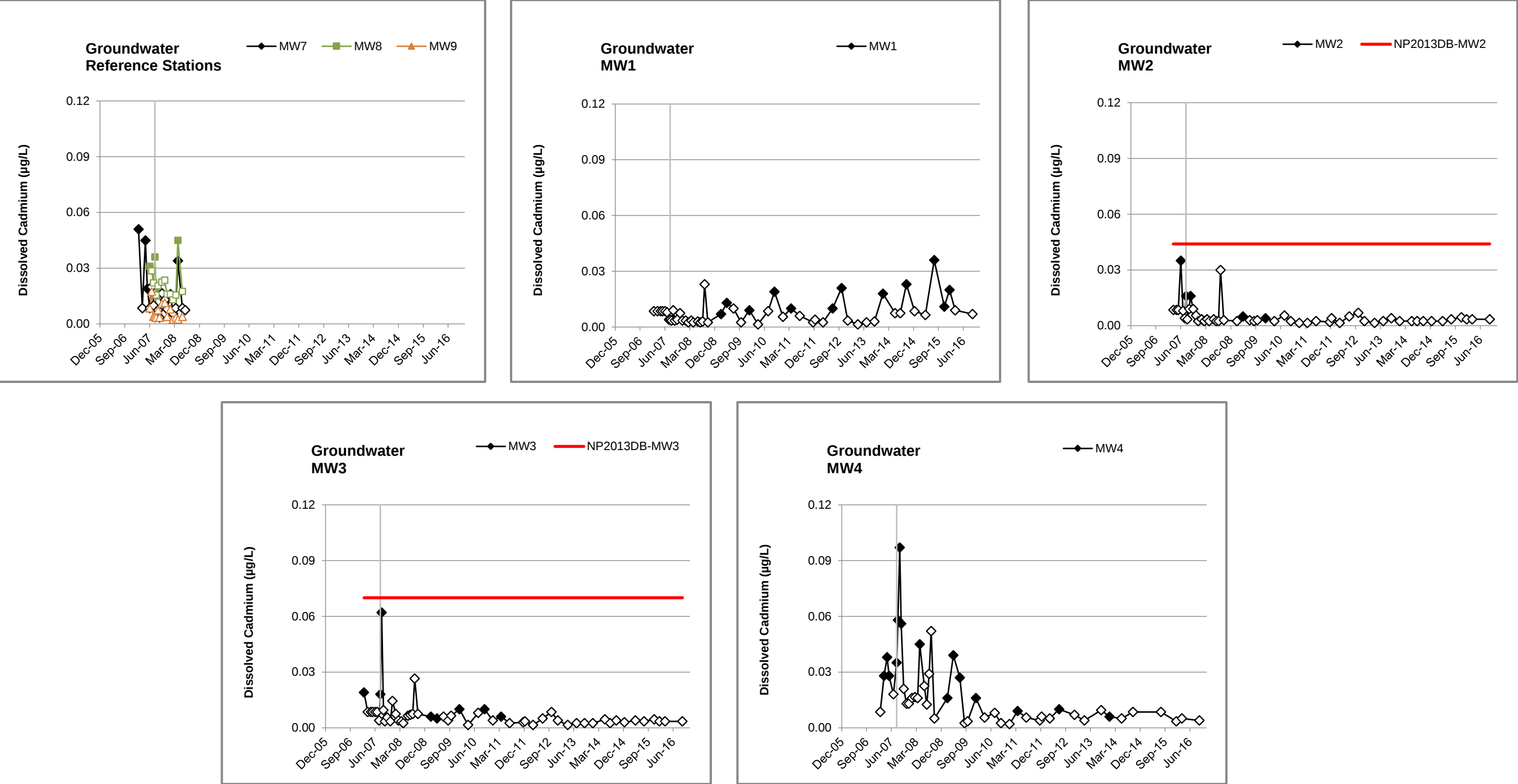
Permit Stations - Surface Water Dissolved Cadmium (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-13a.
 Time Series Plots: Dissolved Cadmium
 Permit Stations - Surface Water
 Niblack Exploration Project

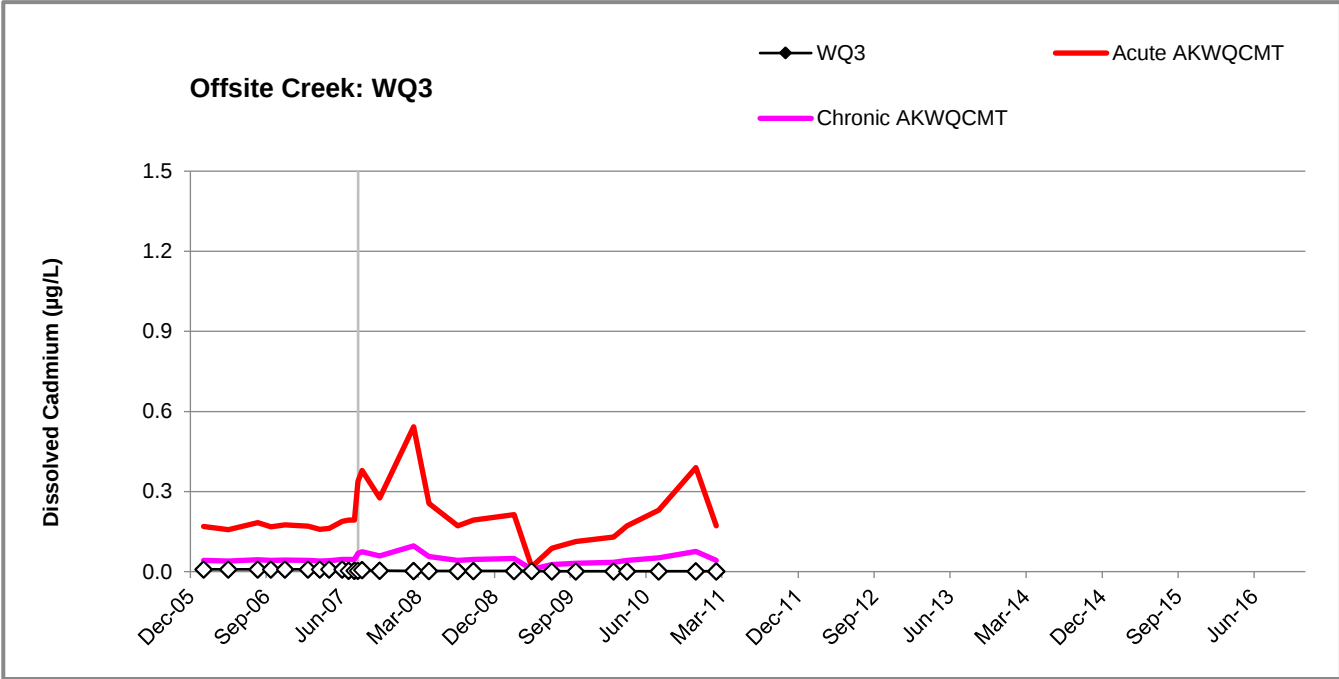
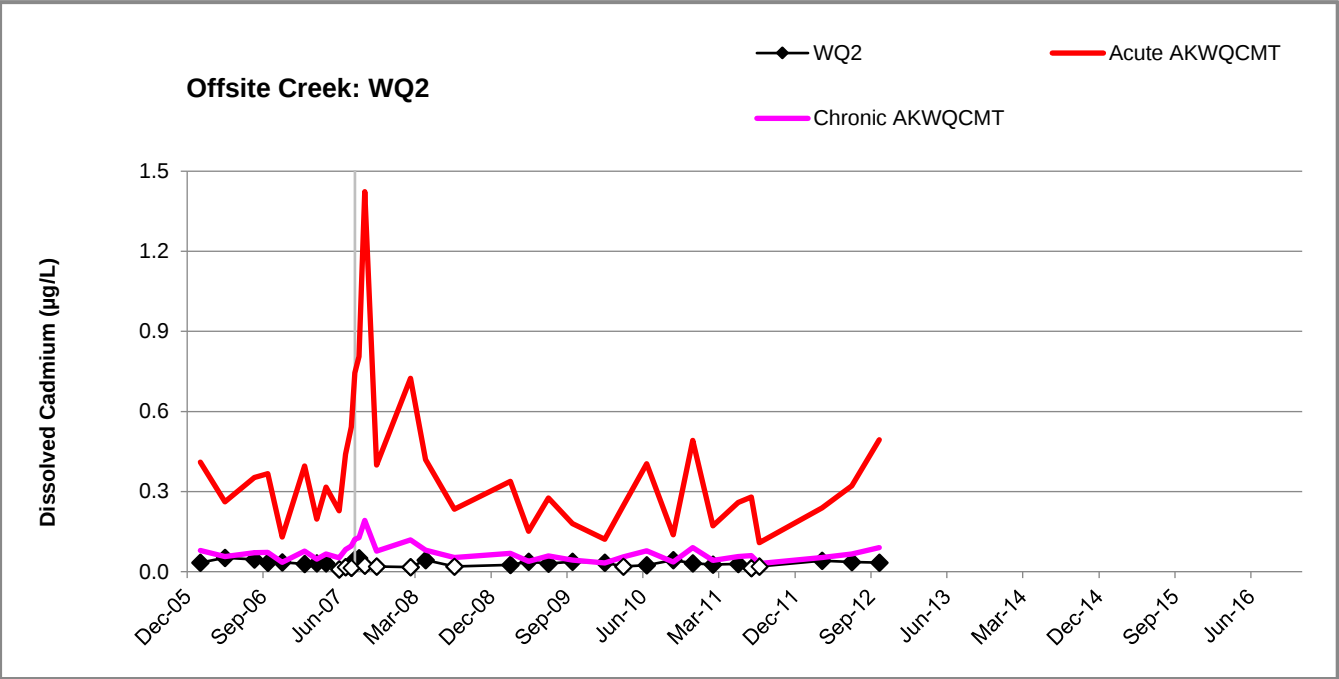
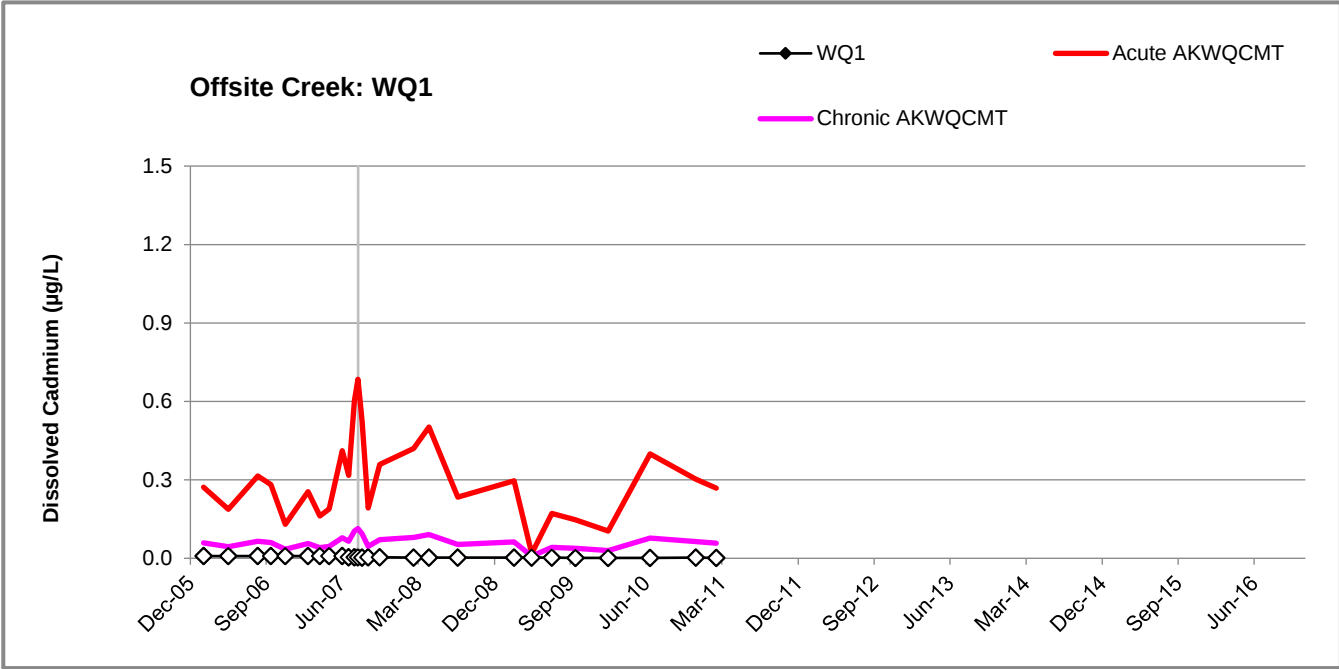
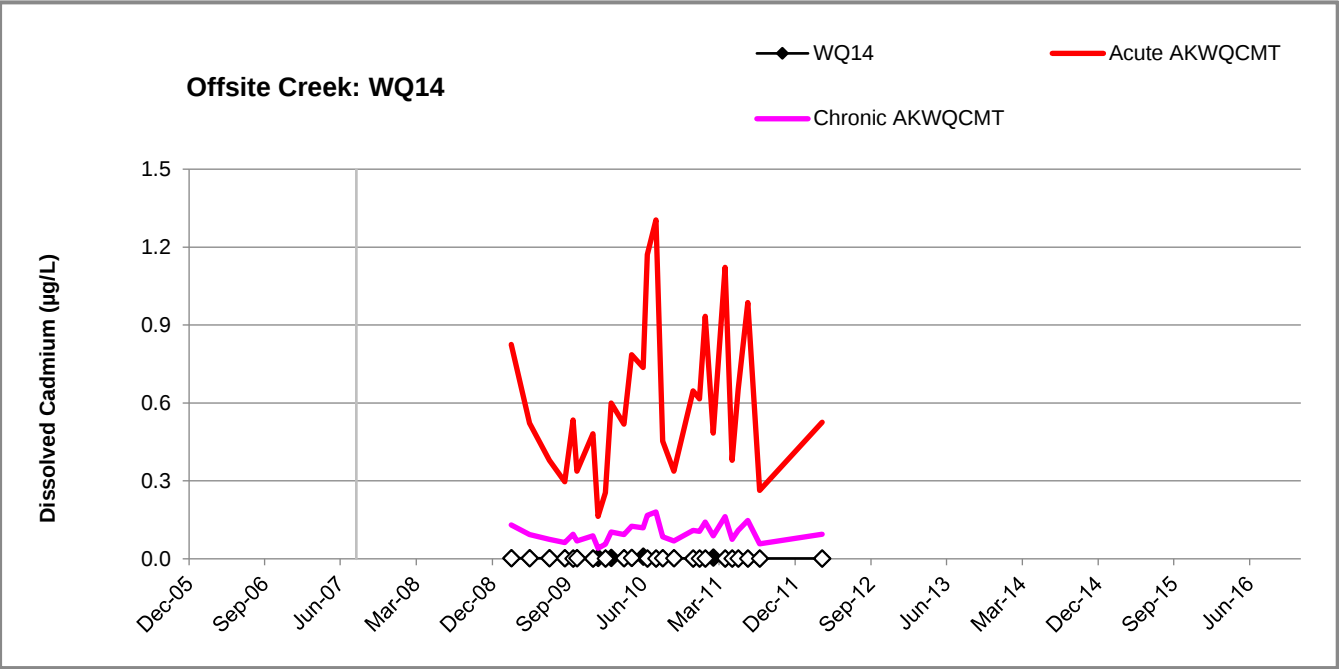
Permit Stations - Groundwater
Dissolved Cadmium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-13b.
Time Series Plots: Dissolved Cadmium
Permit Stations - Groundwater
Niblack Exploration Project

Offsite Surface Water Dissolved Cadmium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-13c.
Time Series Plots: Dissolved Cadmium
Offsite Surface Water
Niblack Exploration Project

Permit Stations - Surface Water Total Chromium (µg/L)

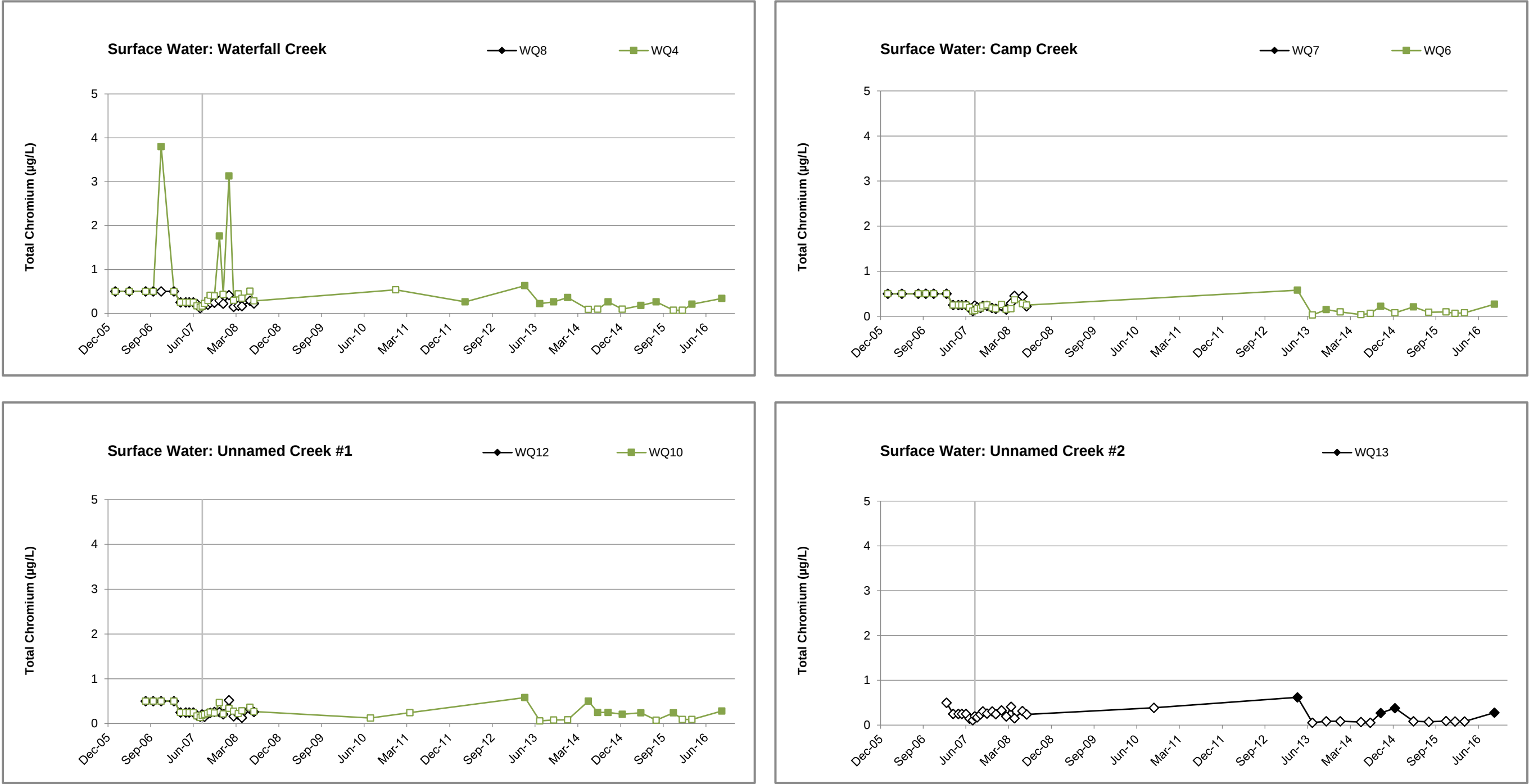
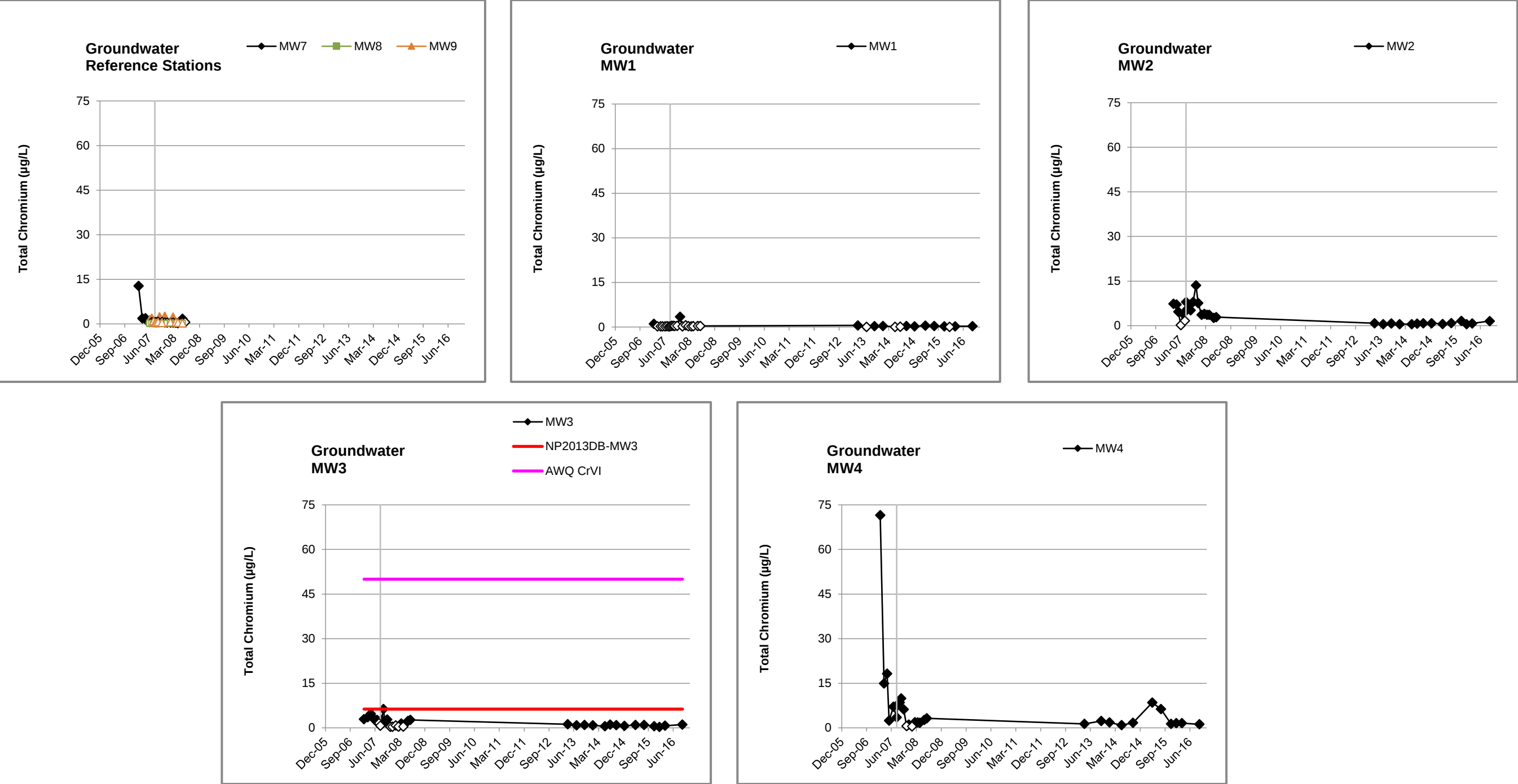


Figure 5-14a.
 Time Series Plots: Total Chromium
 Permit Stations - Surface Water
 Niblack Exploration Project

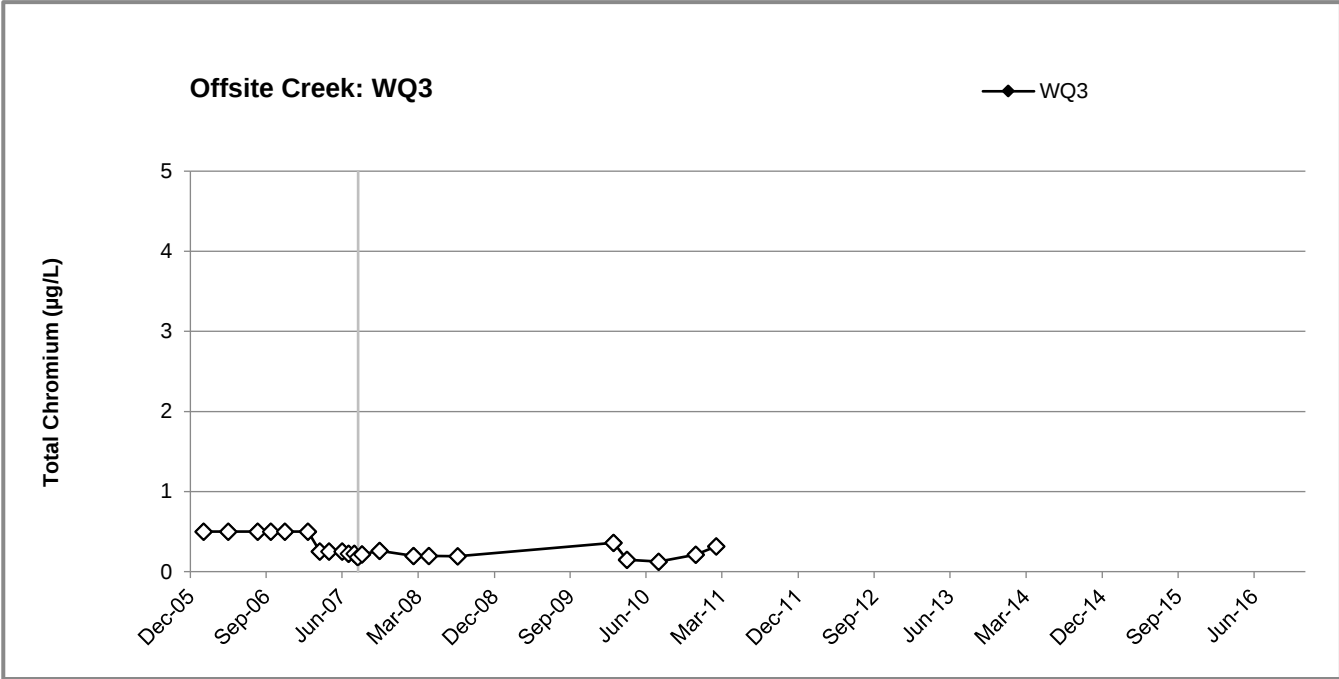
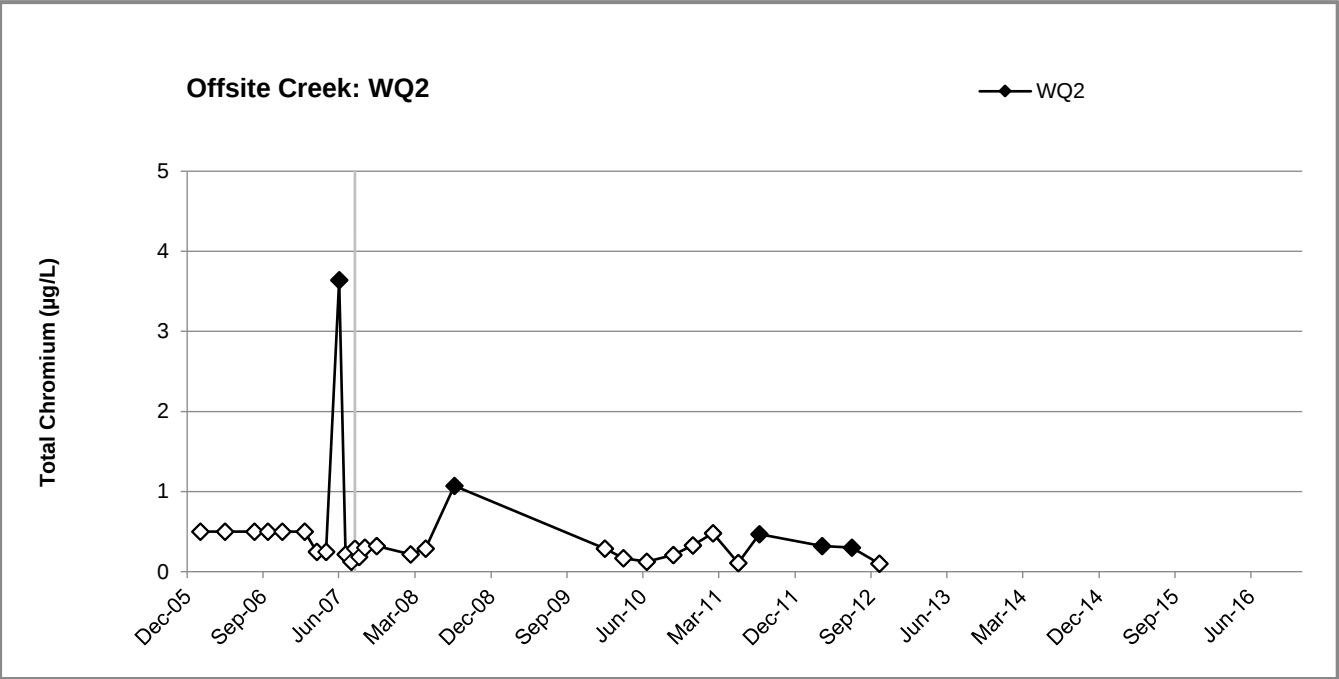
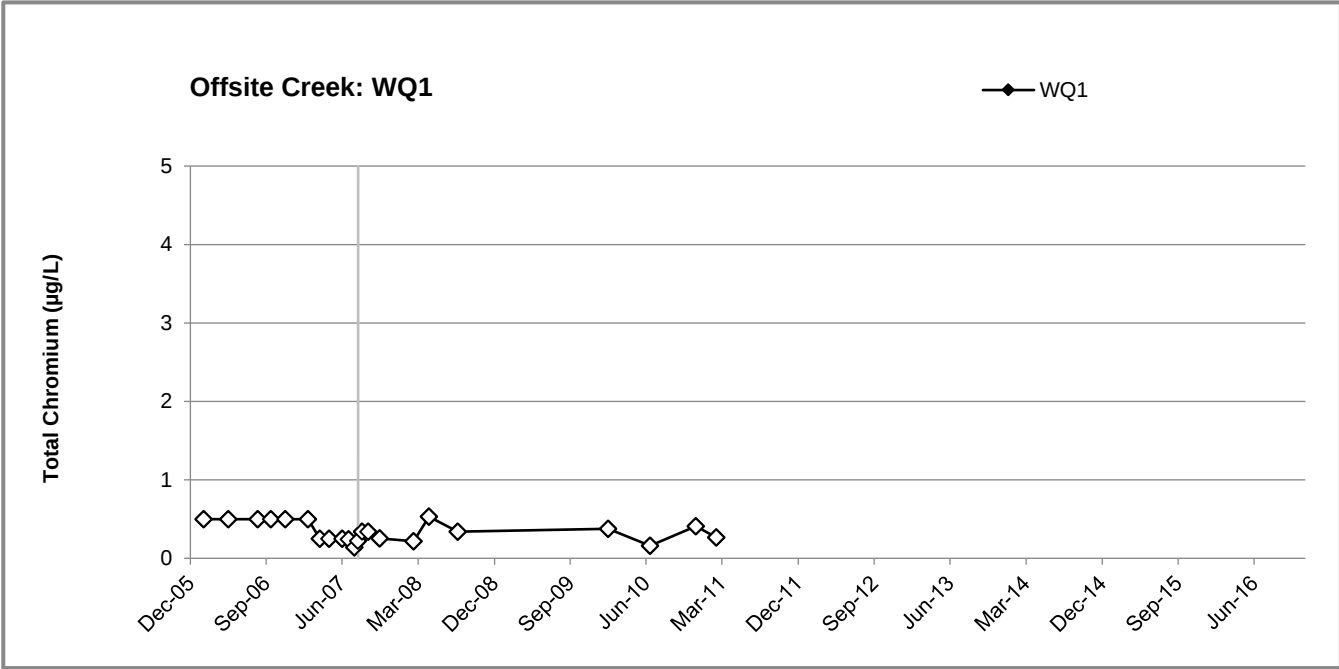
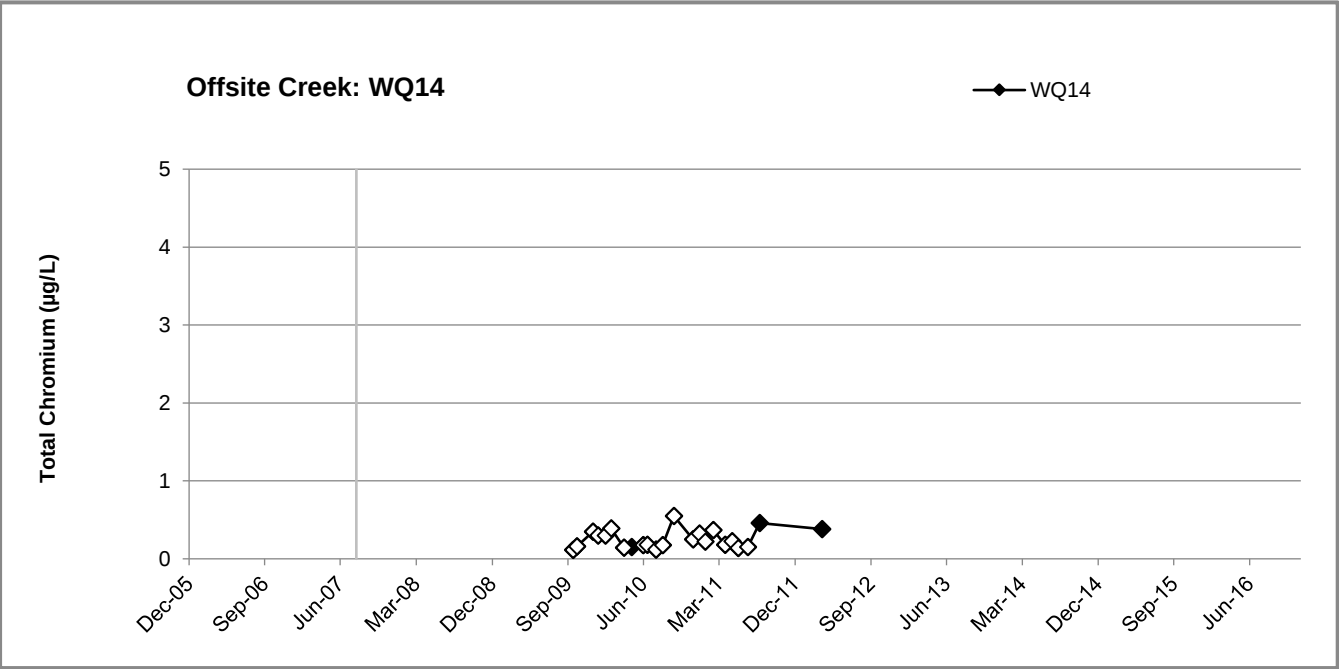
Permit Stations - Groundwater
Total Chromium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-14b.
Time Series Plots: Total Chromium
Permit Stations - Groundwater
Niblack Exploration Project

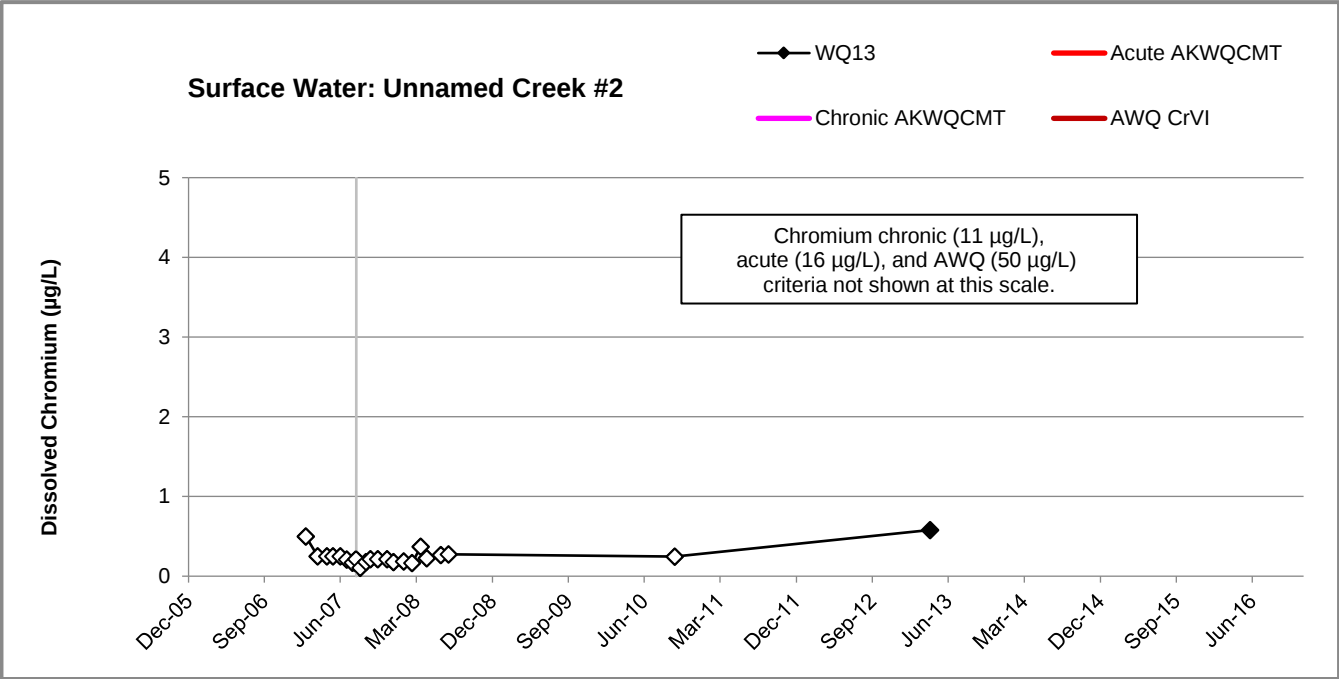
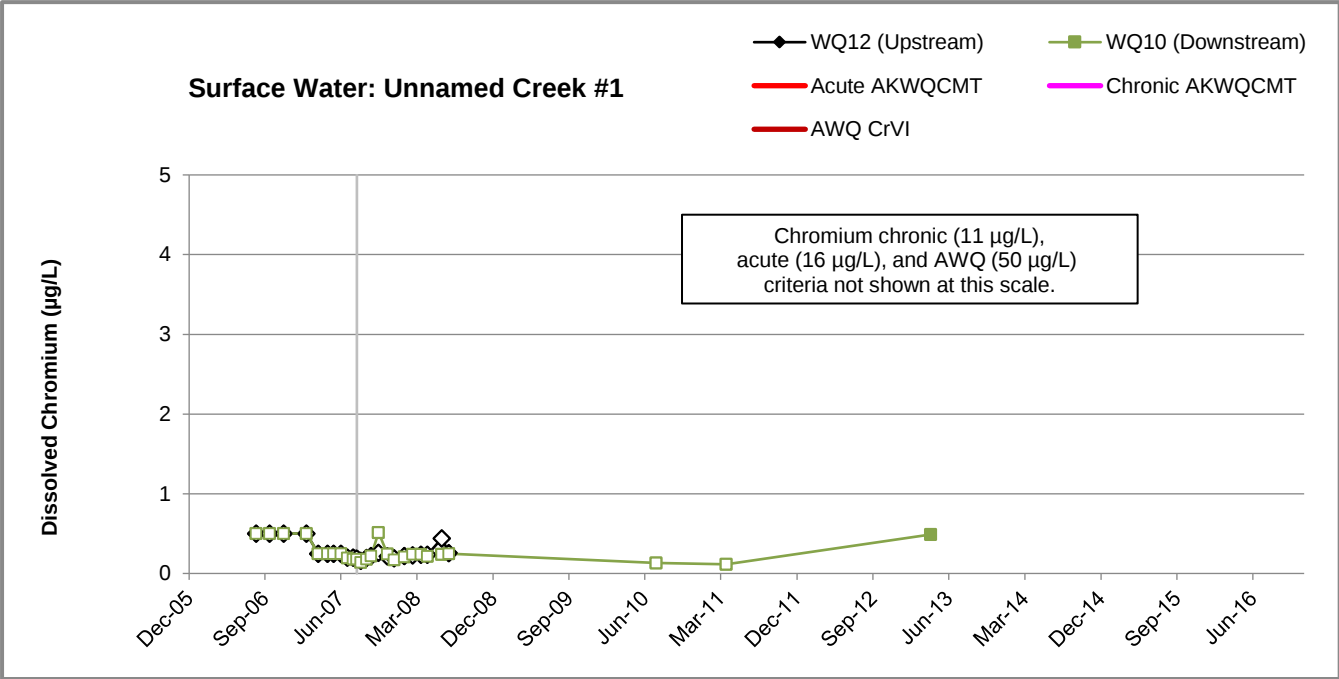
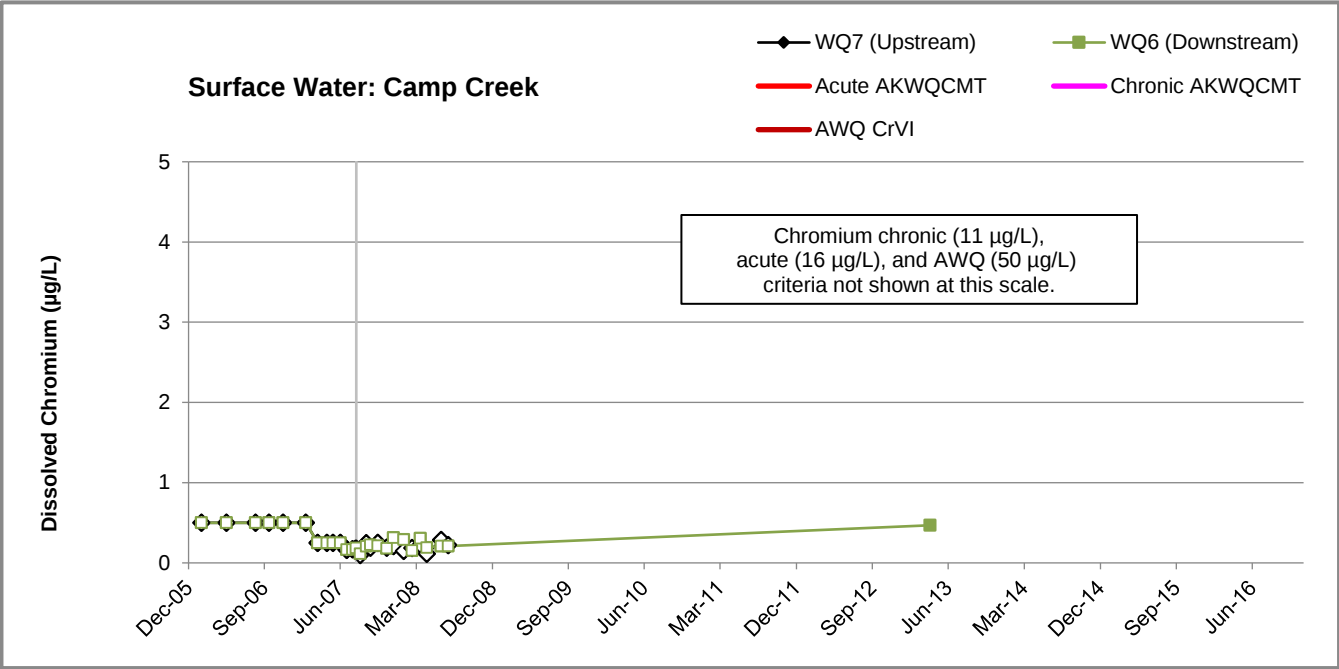
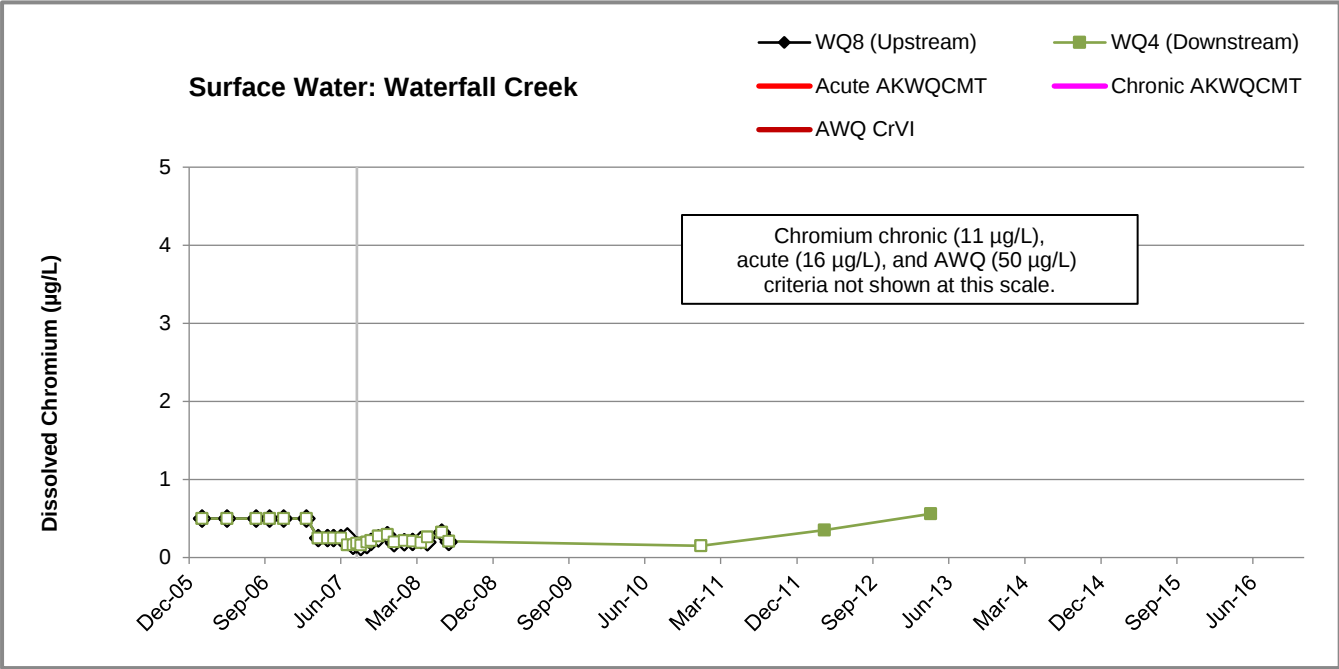
Offsite Surface Water Total Chromium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-14c.
Time Series Plots: Total Chromium
Offsite Surface Water
Niblack Exploration Project

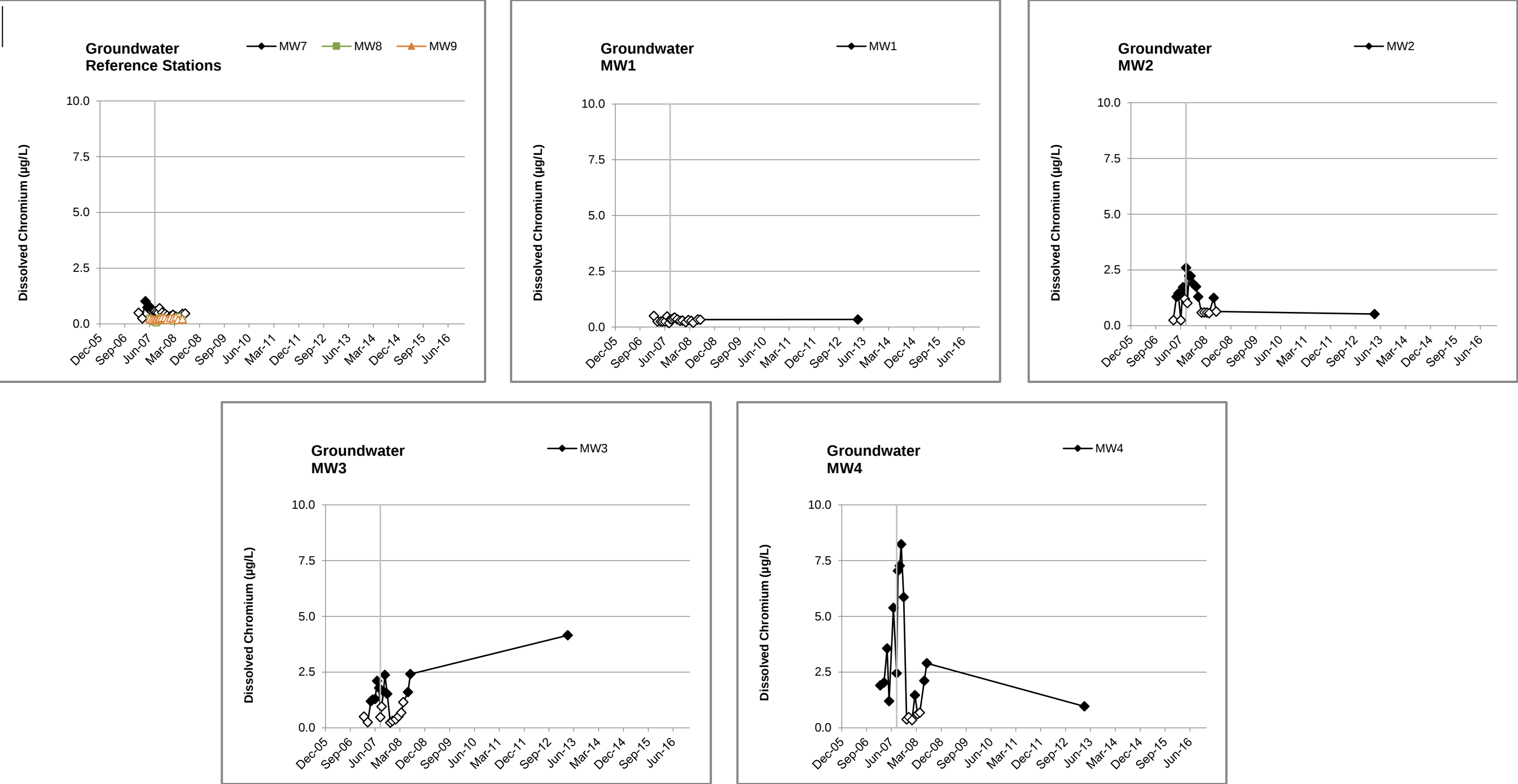
Permit Stations - Surface Water Dissolved Chromium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-15a.
Time Series Plots: Dissolved Chromium
Permit Stations - Surface Water
Niblack Exploration Project

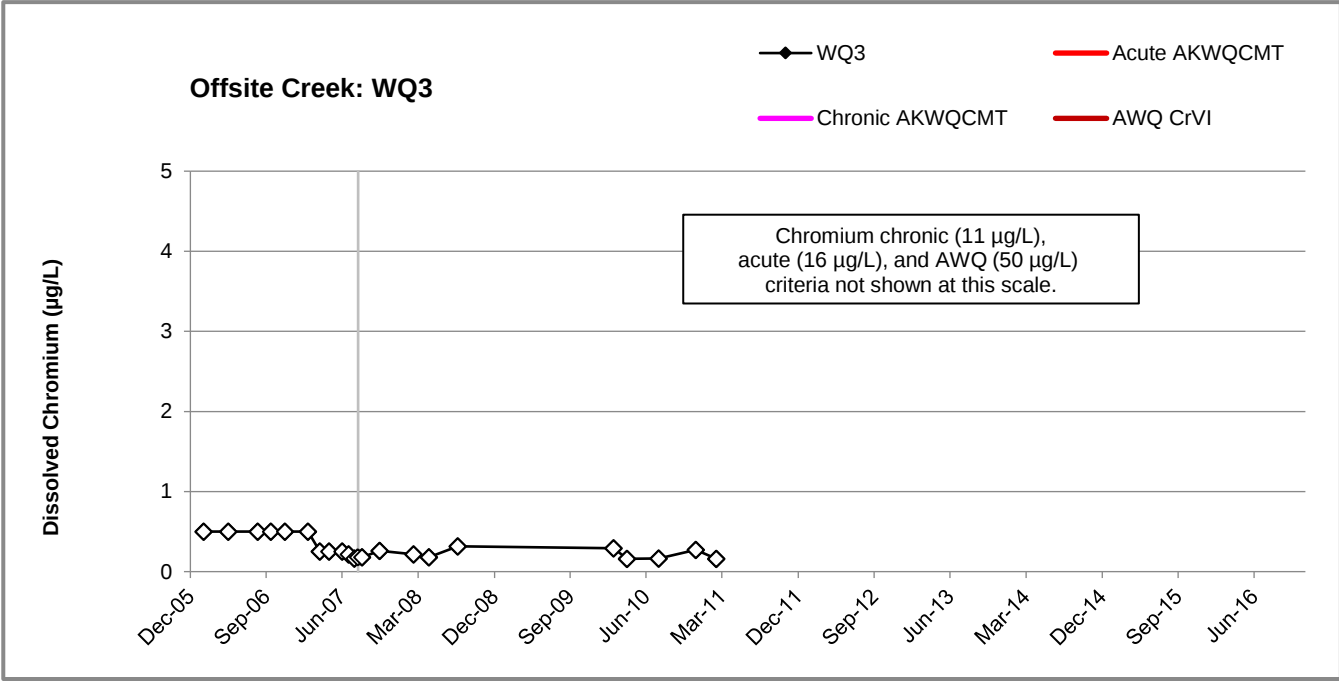
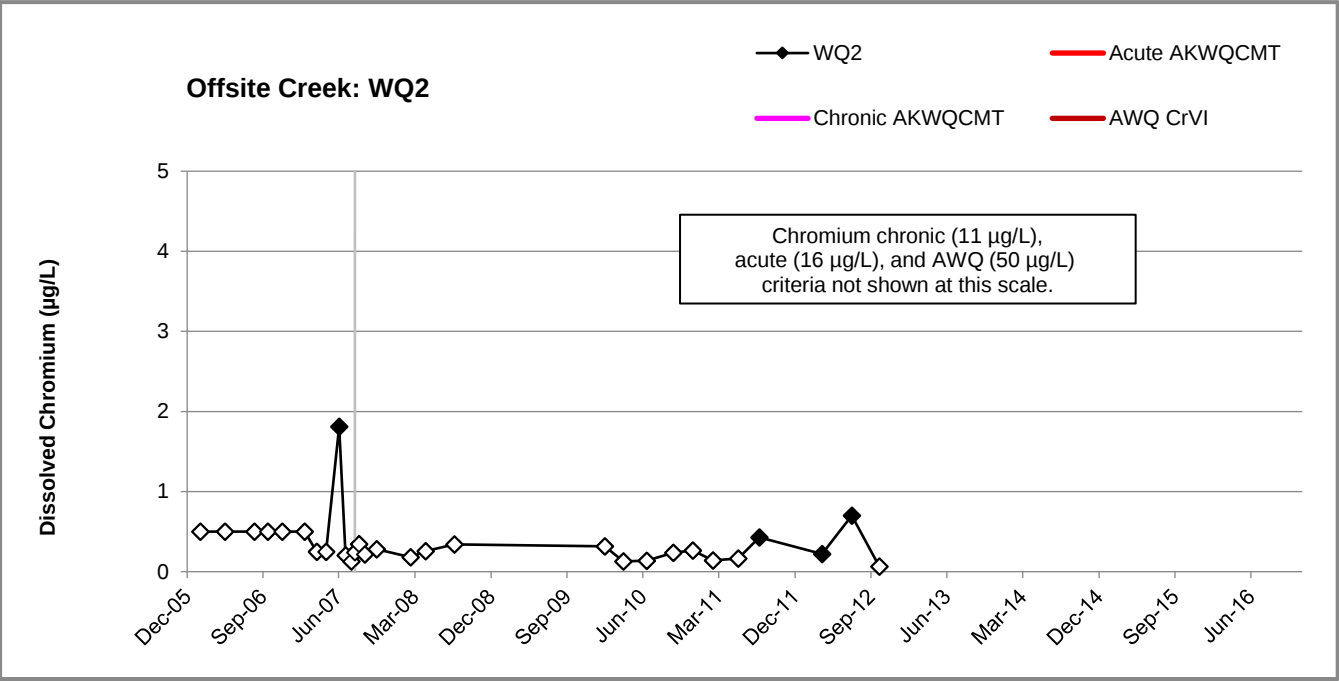
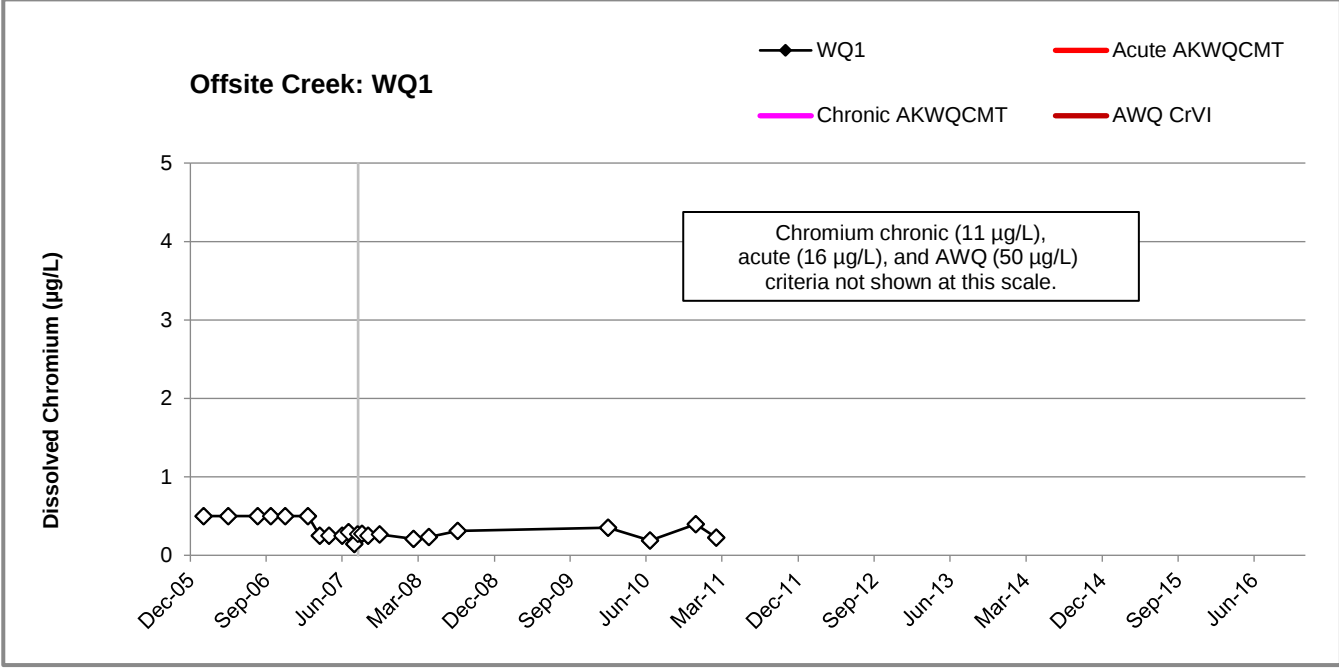
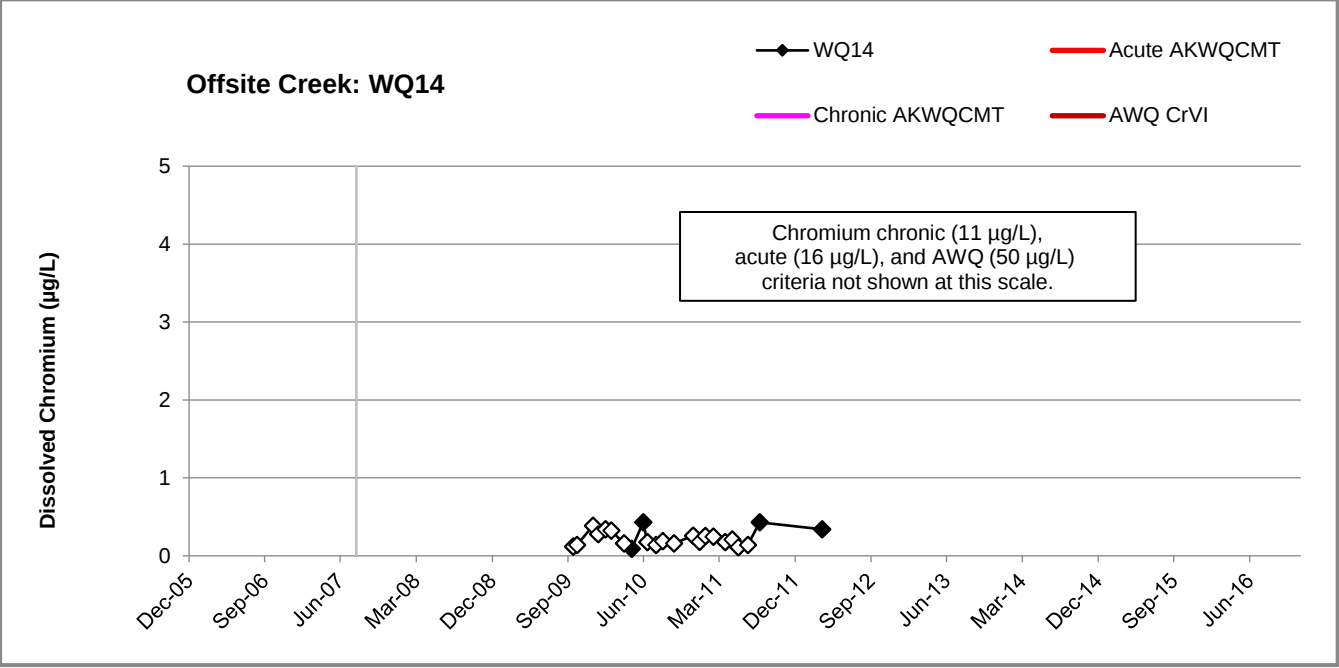
Permit Stations - Groundwater
Dissolved Chromium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-15b.
Time Series Plots: Dissolved Chromium
Permit Stations - Groundwater
Niblack Exploration Project

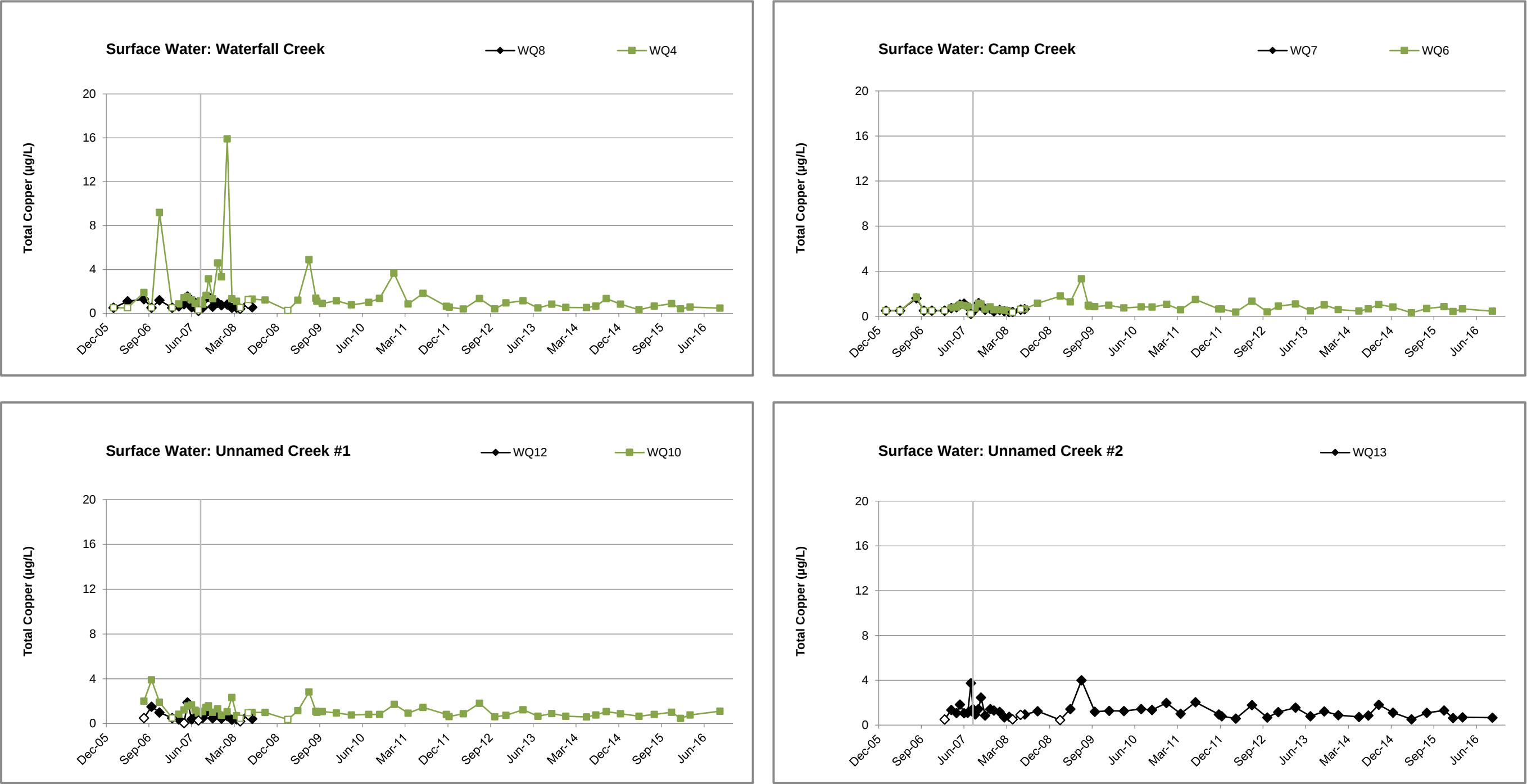
Offsite Surface Water Dissolved Chromium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-15c.
Time Series Plots: Dissolved Chromium
Offsite Surface Water
Niblack Exploration Project

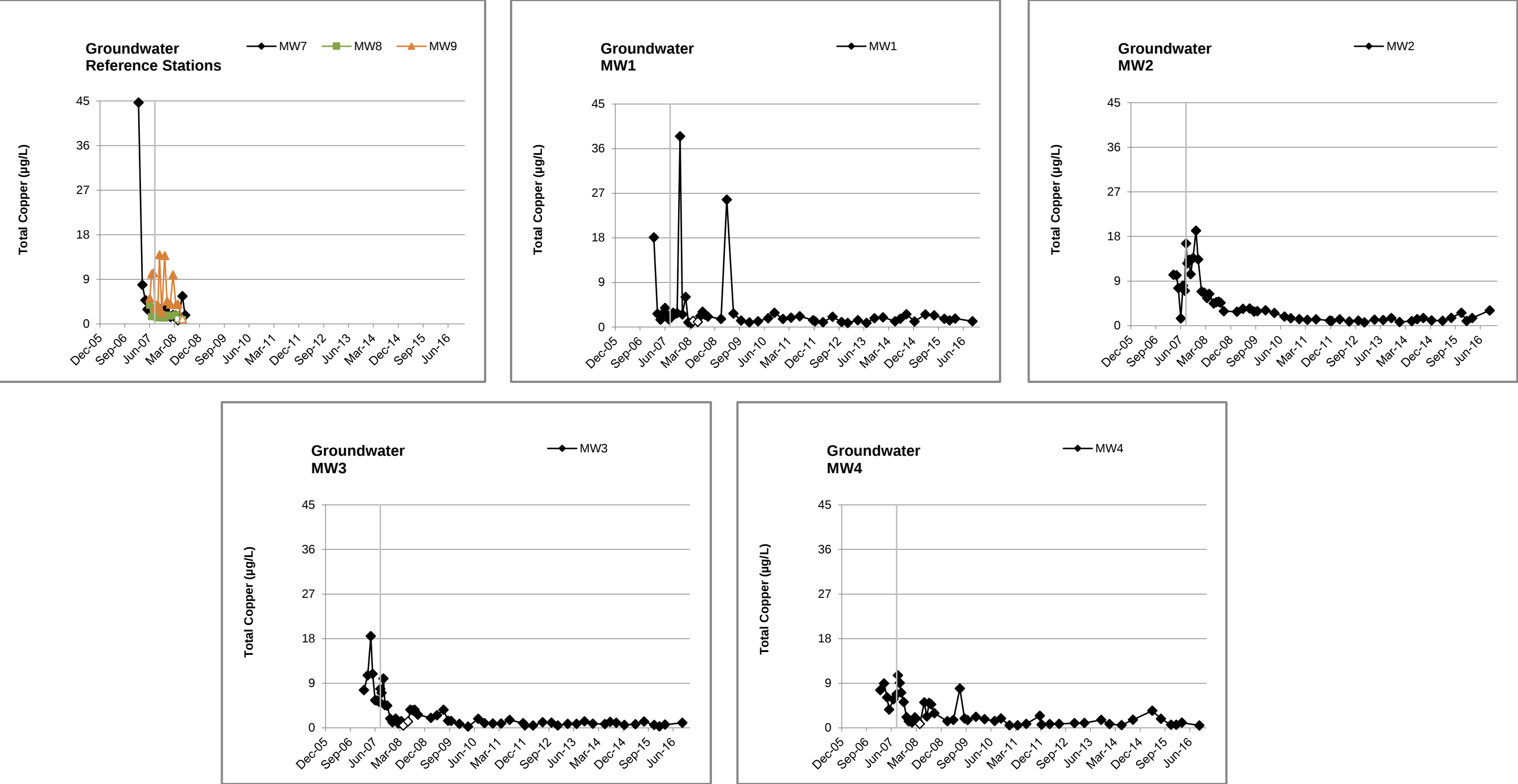
Permit Stations - Surface Water Total Copper (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-16a.
 Time Series Plots: Total Copper
 Permit Stations - Surface Water
 Niblack Exploration Project

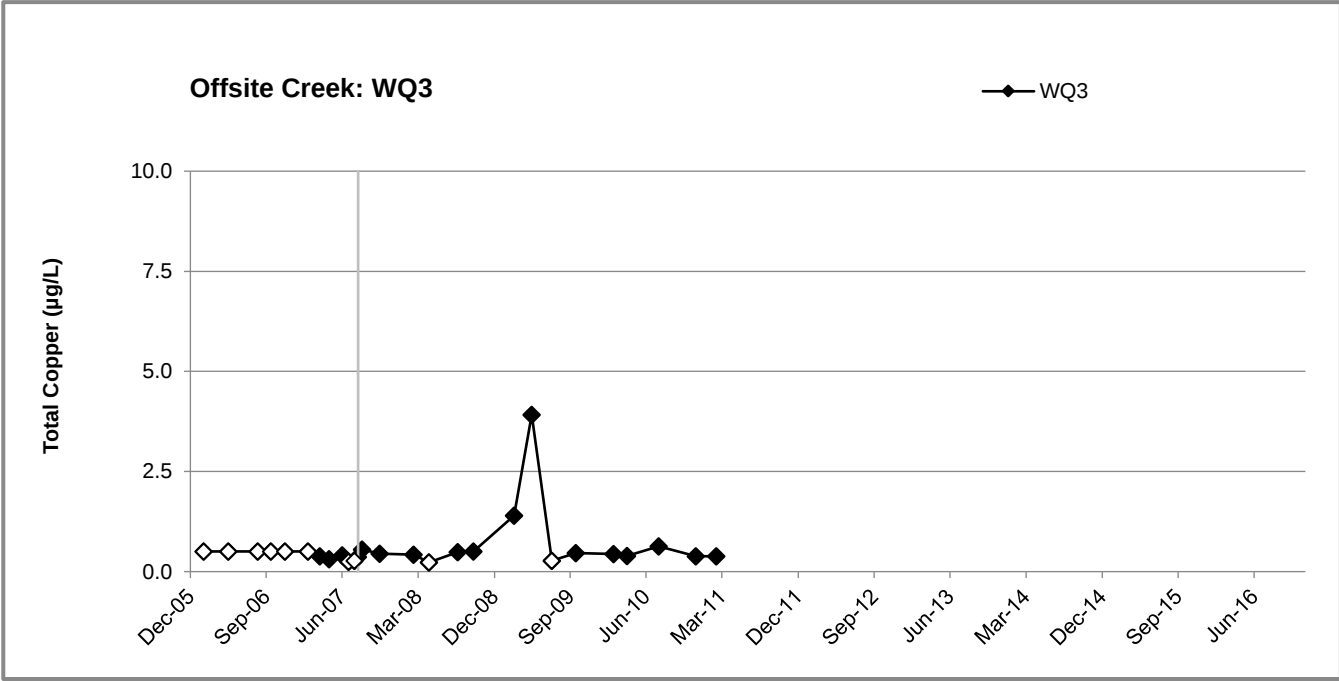
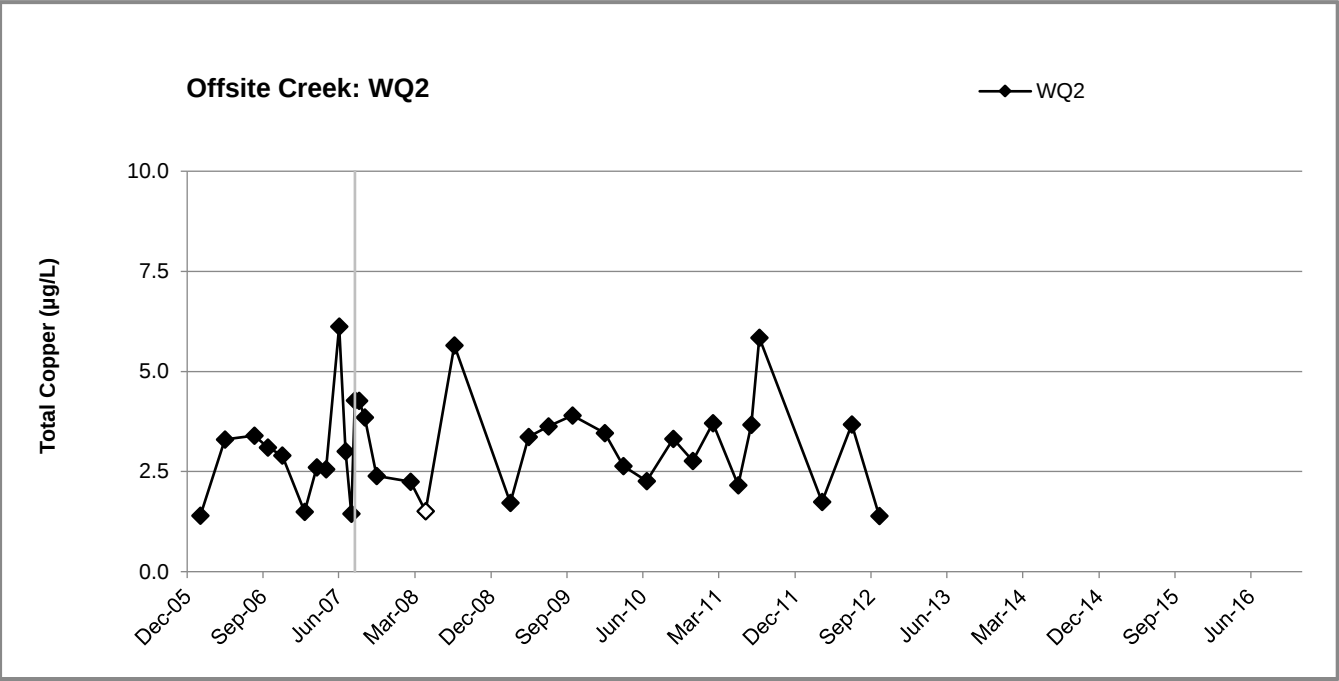
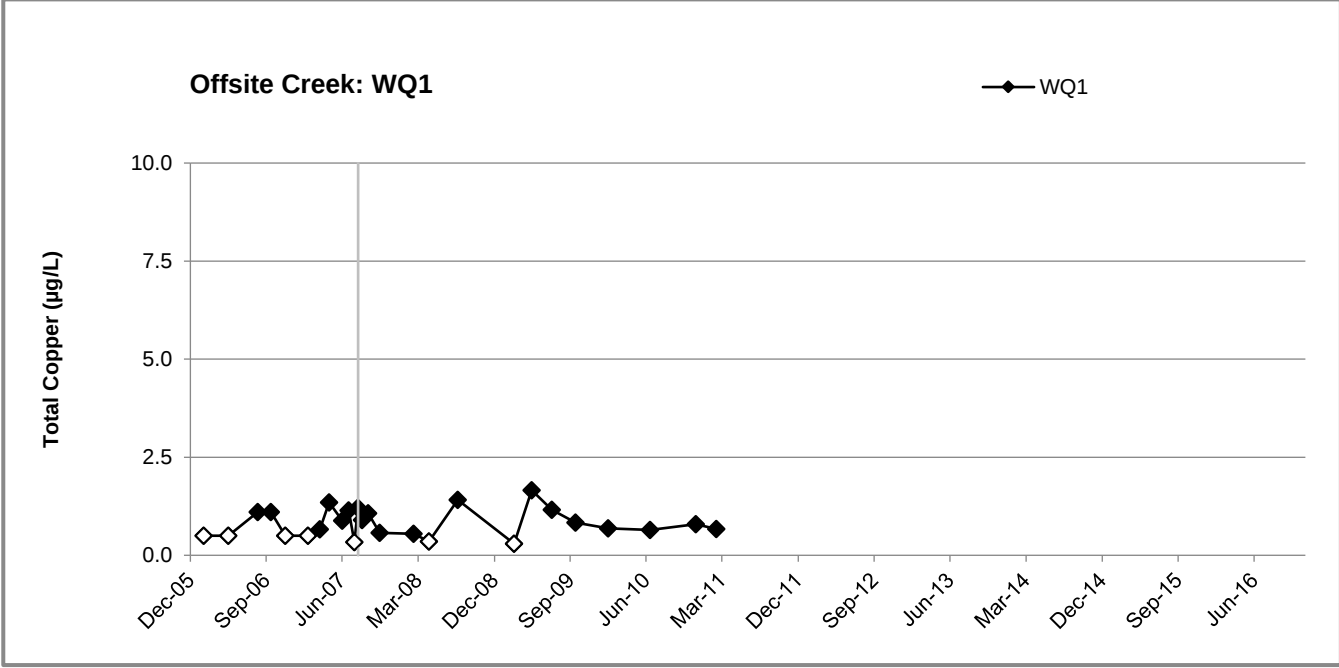
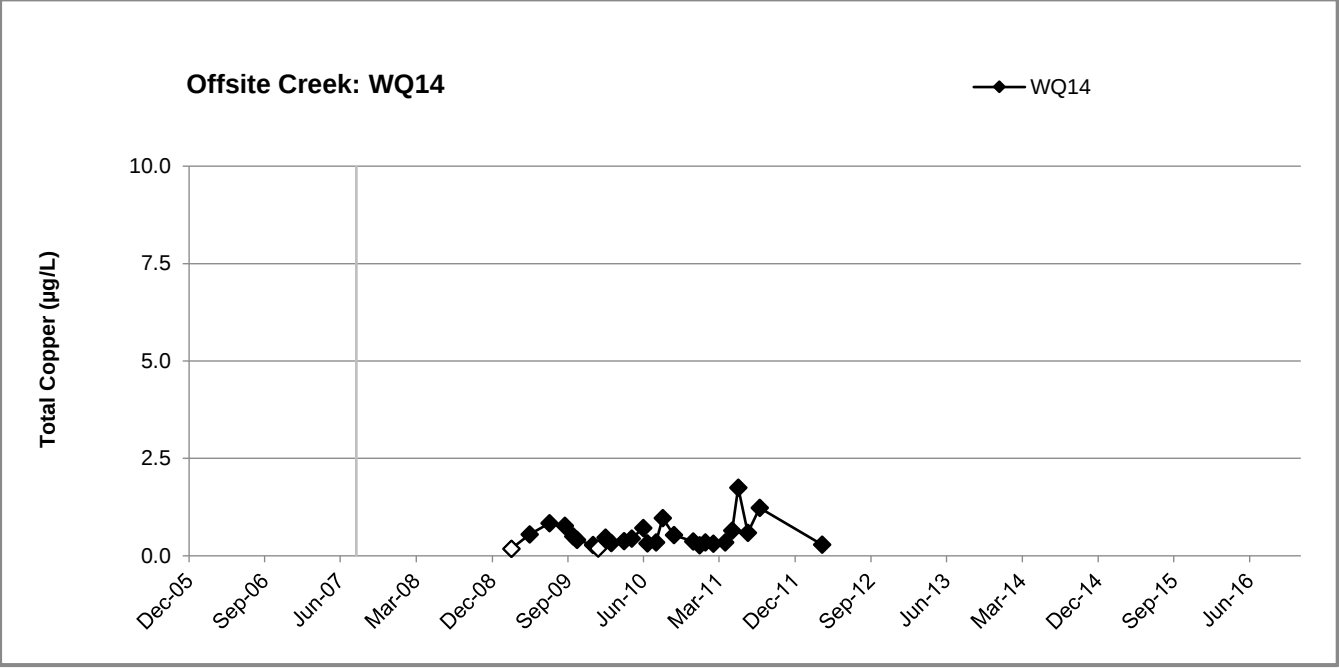
Permit Stations - Groundwater
Total Copper (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-16b.
Time Series Plots: Total Copper
Permit Stations - Groundwater
Niblack Exploration Project

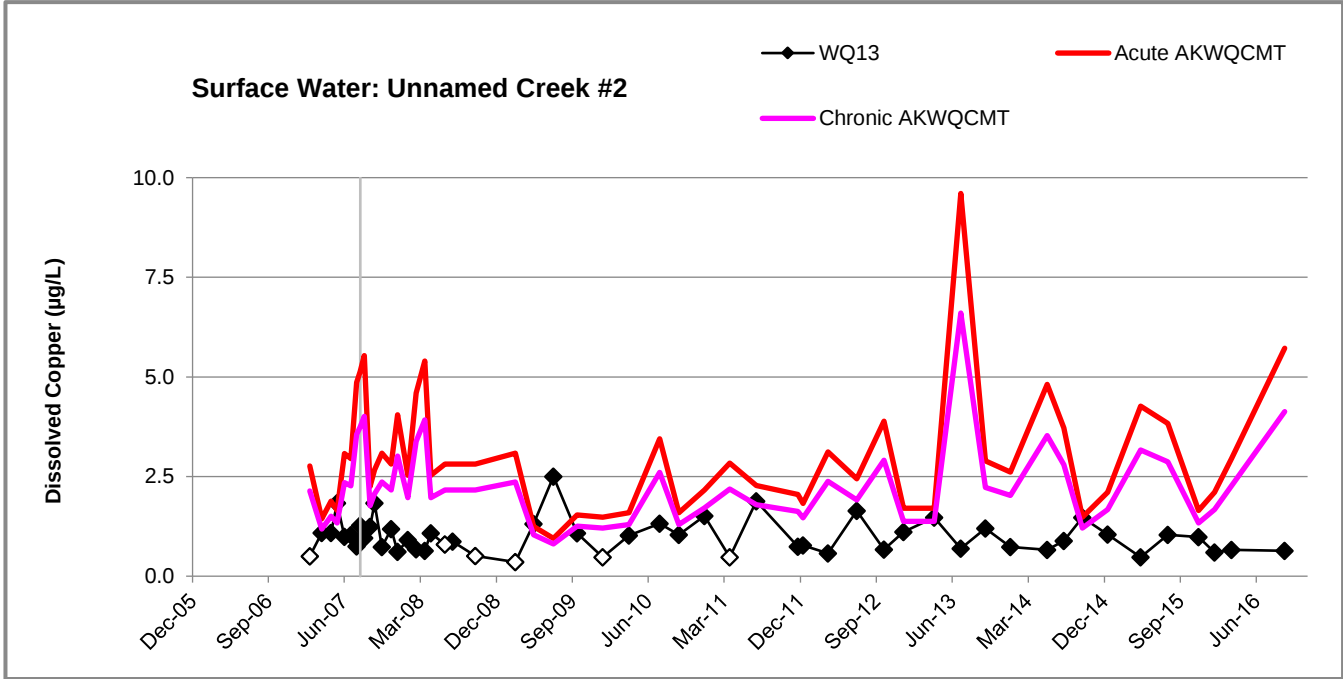
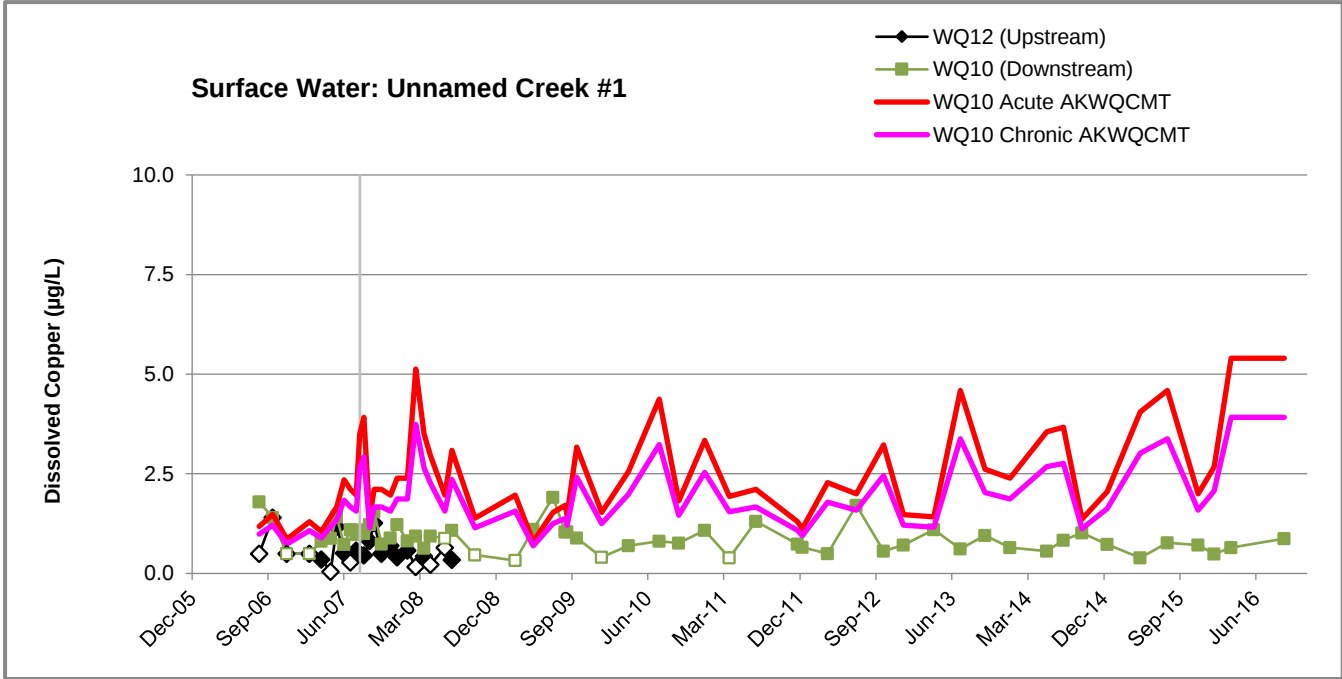
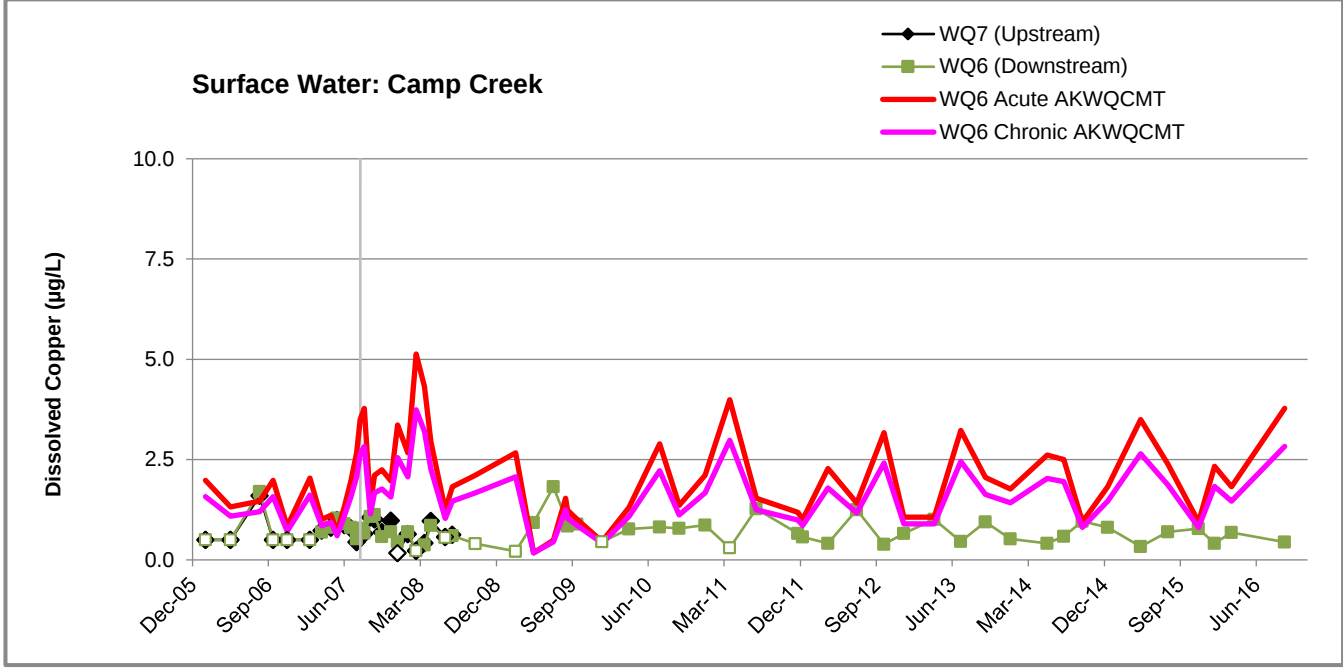
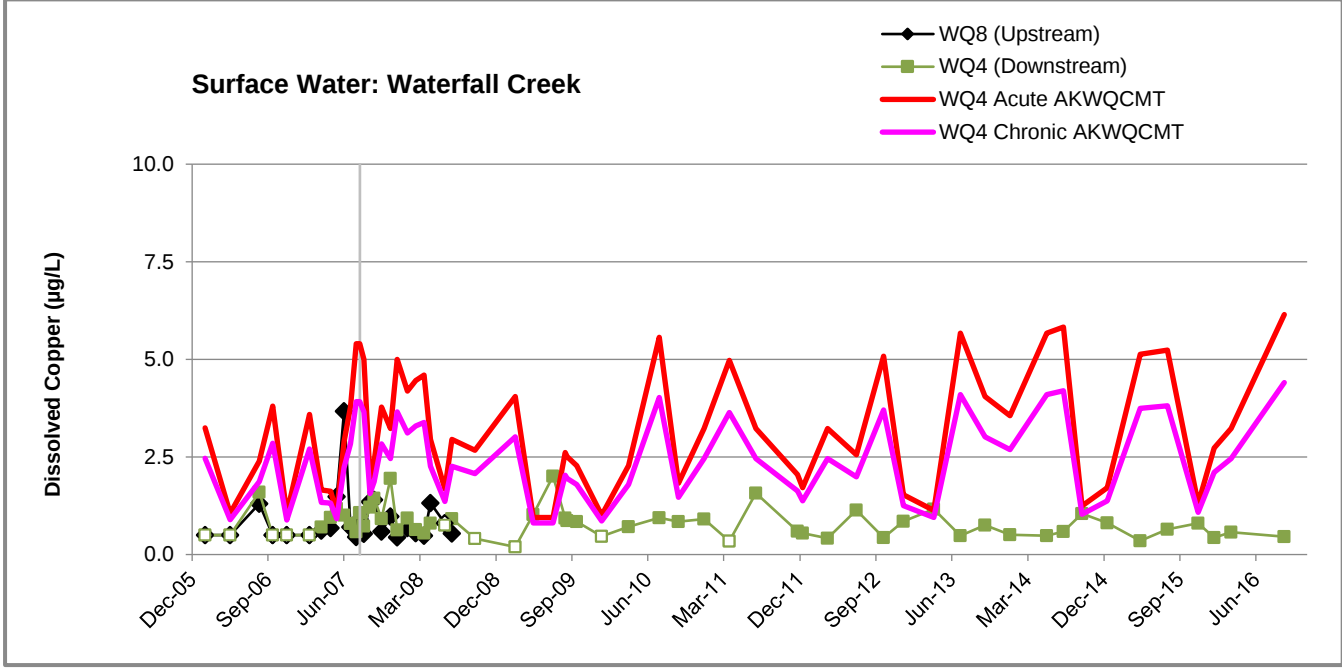
Offsite Surface Water Total Copper (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-16c.
Time Series Plots: Total Copper
Offsite Surface Water
Niblack Exploration Project

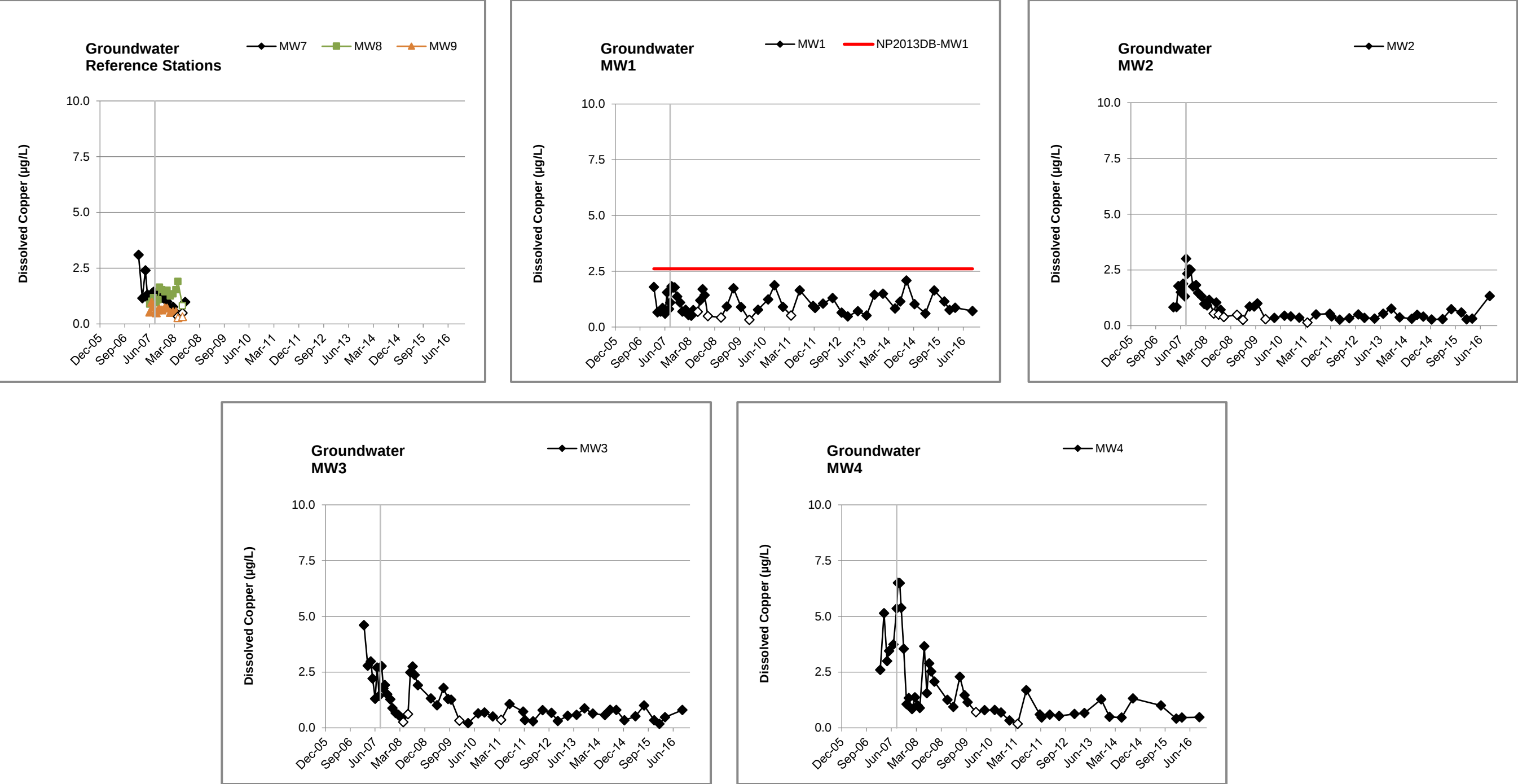
Permit Stations - Surface Water Dissolved Copper (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-17a.
 Time Series Plots: Dissolved Copper
 Permit Stations - Surface Water
 Niblack Exploration Project

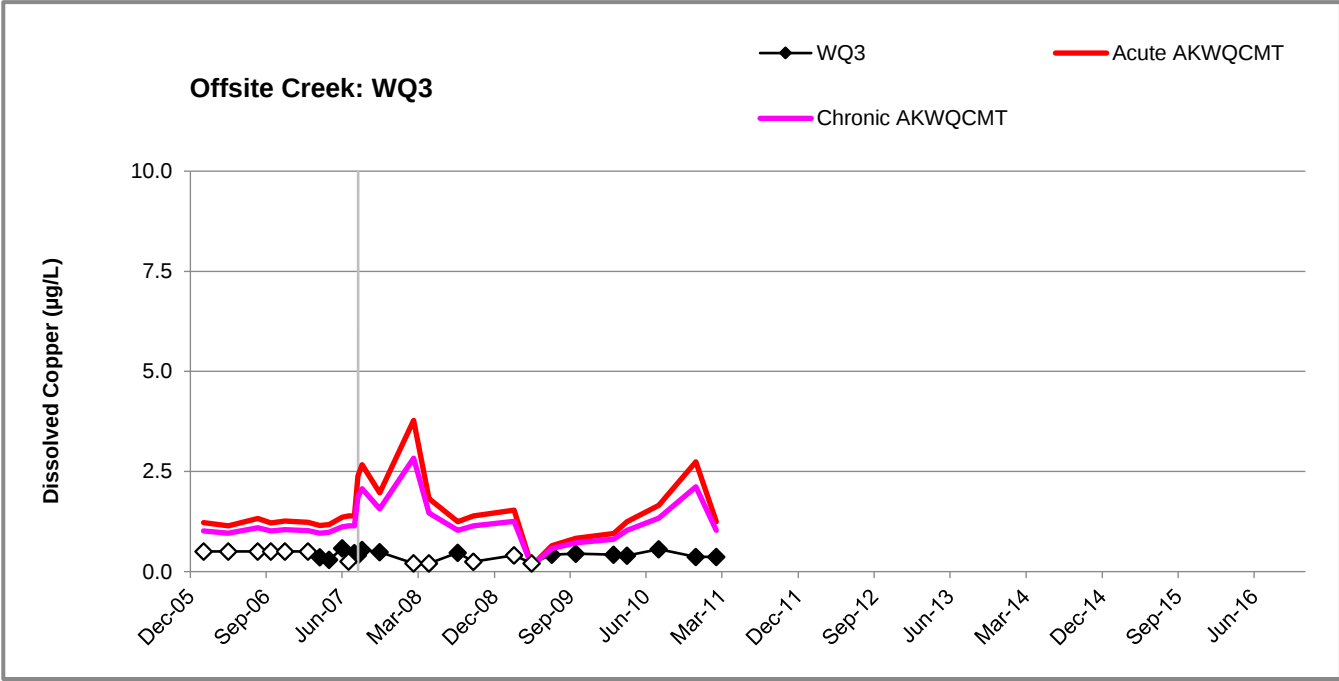
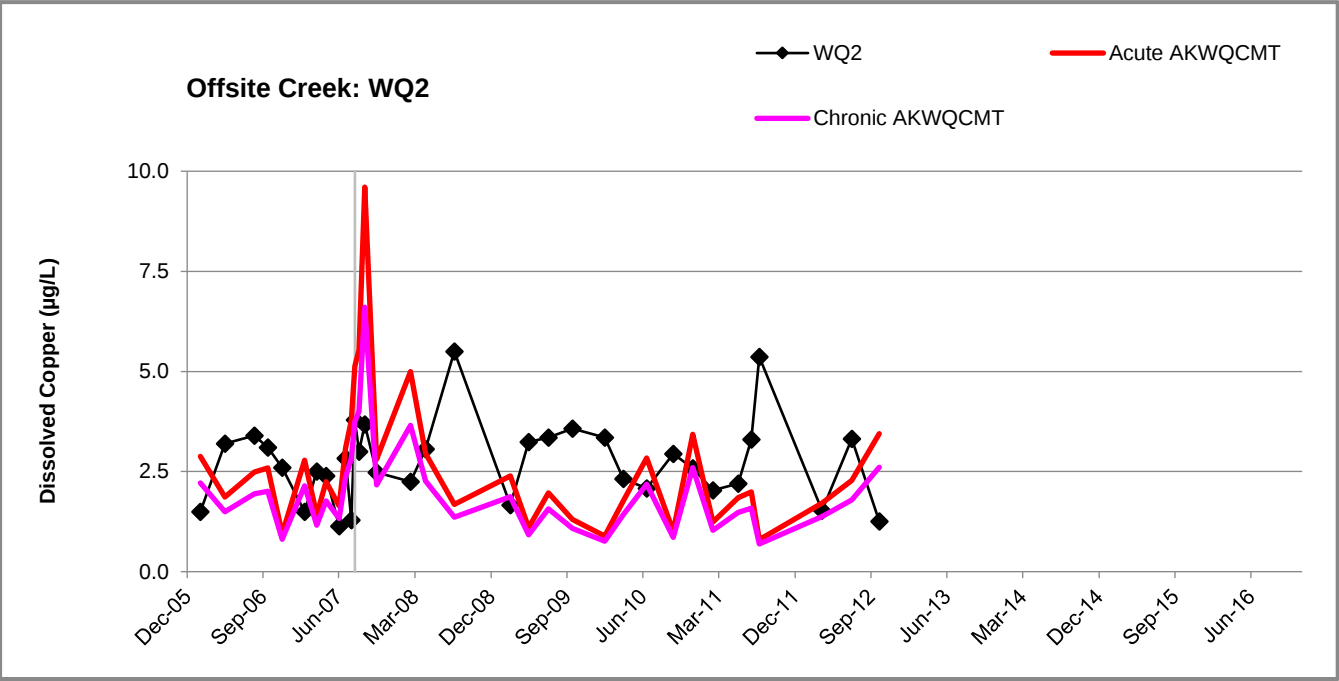
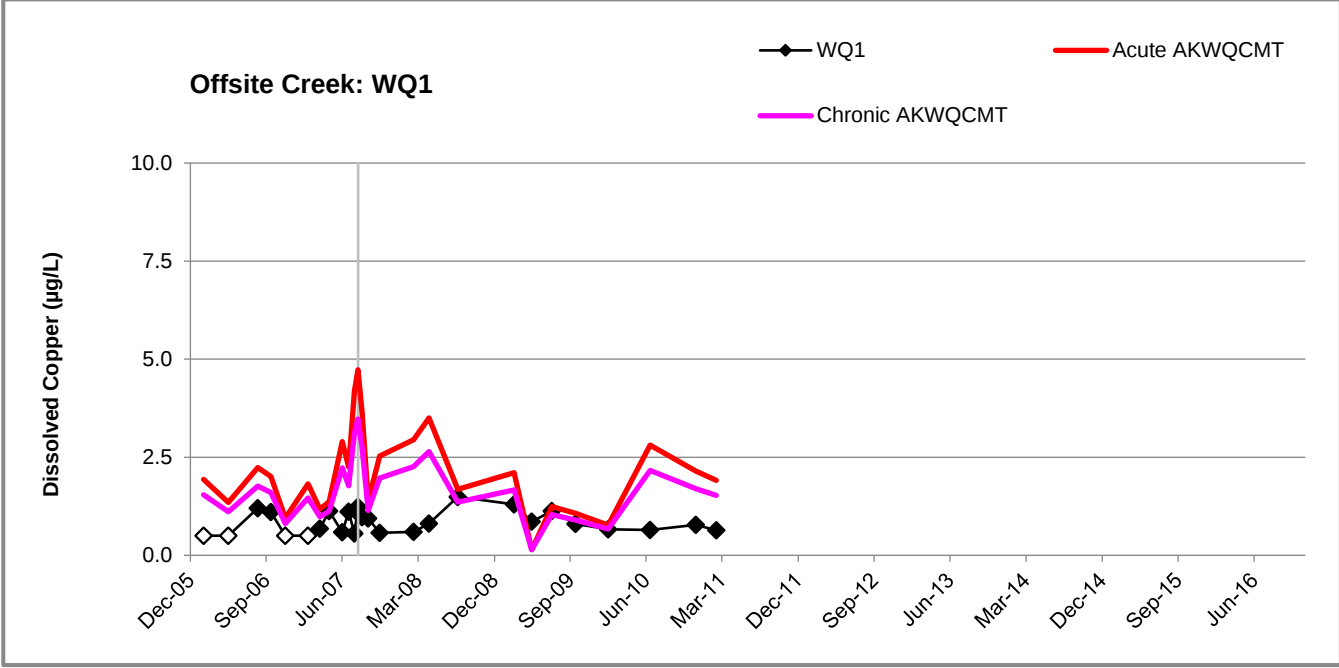
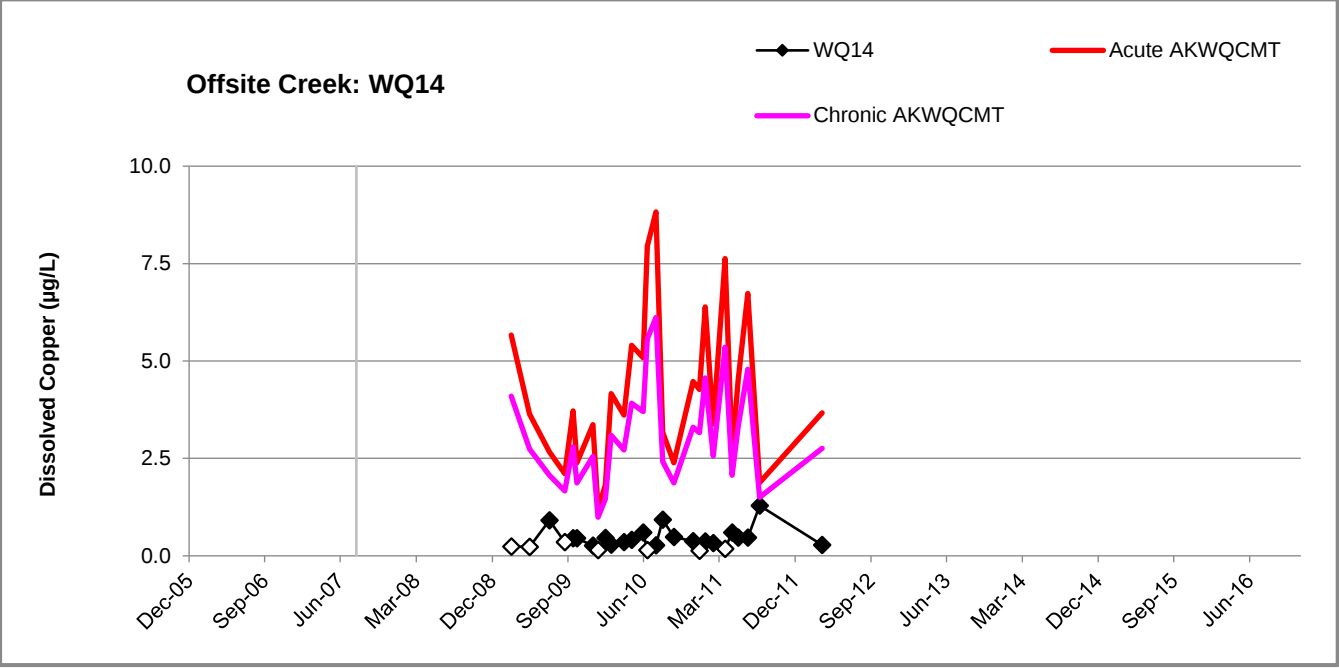
Permit Stations - Groundwater
Dissolved Copper (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-17b.
Time Series Plots: Dissolved Copper
Permit Stations - Groundwater
Niblack Exploration Project

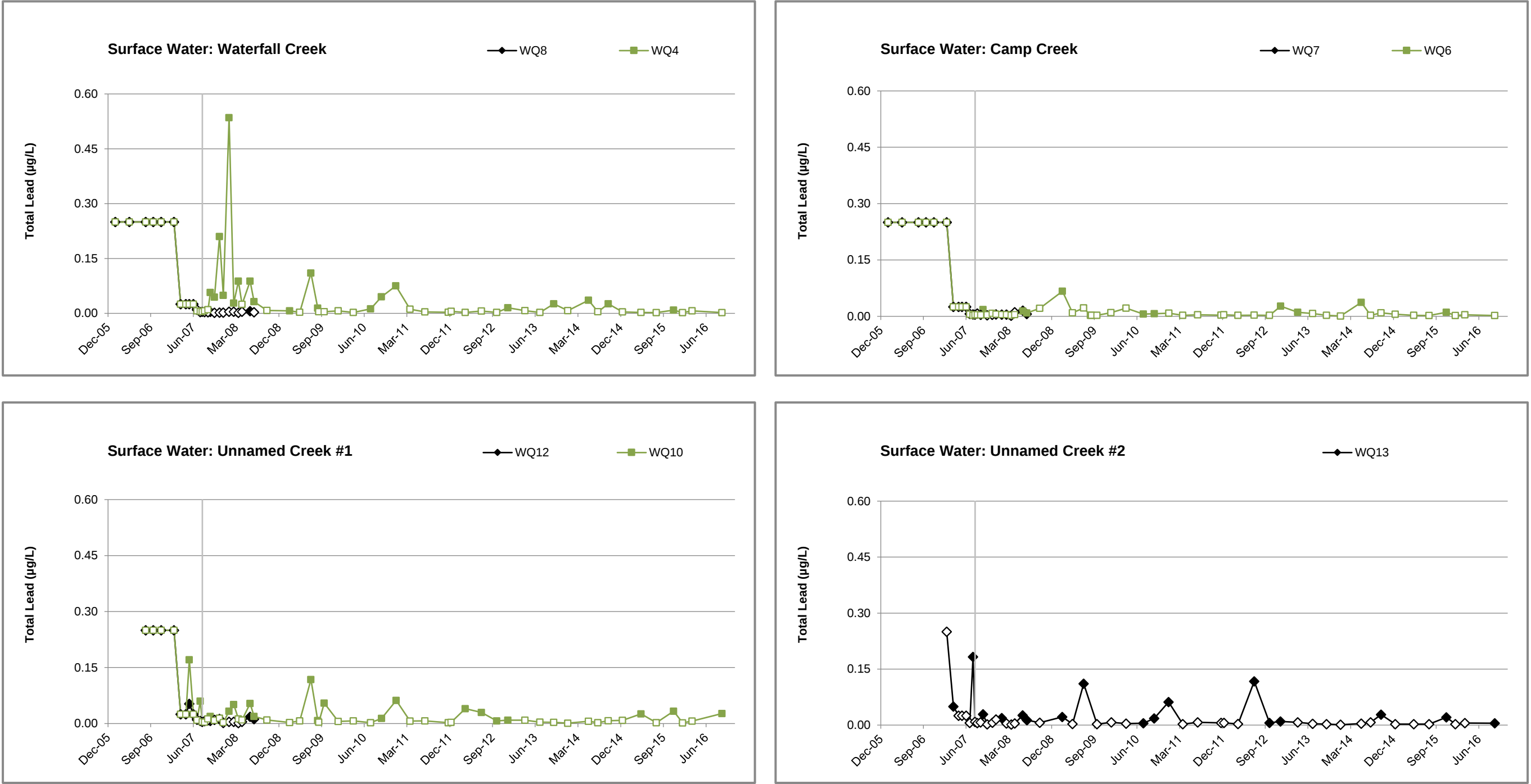
Offsite Surface Water Dissolved Copper (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-17c.
Time Series Plots: Dissolved Copper
Offsite Surface Water
Niblack Exploration Project

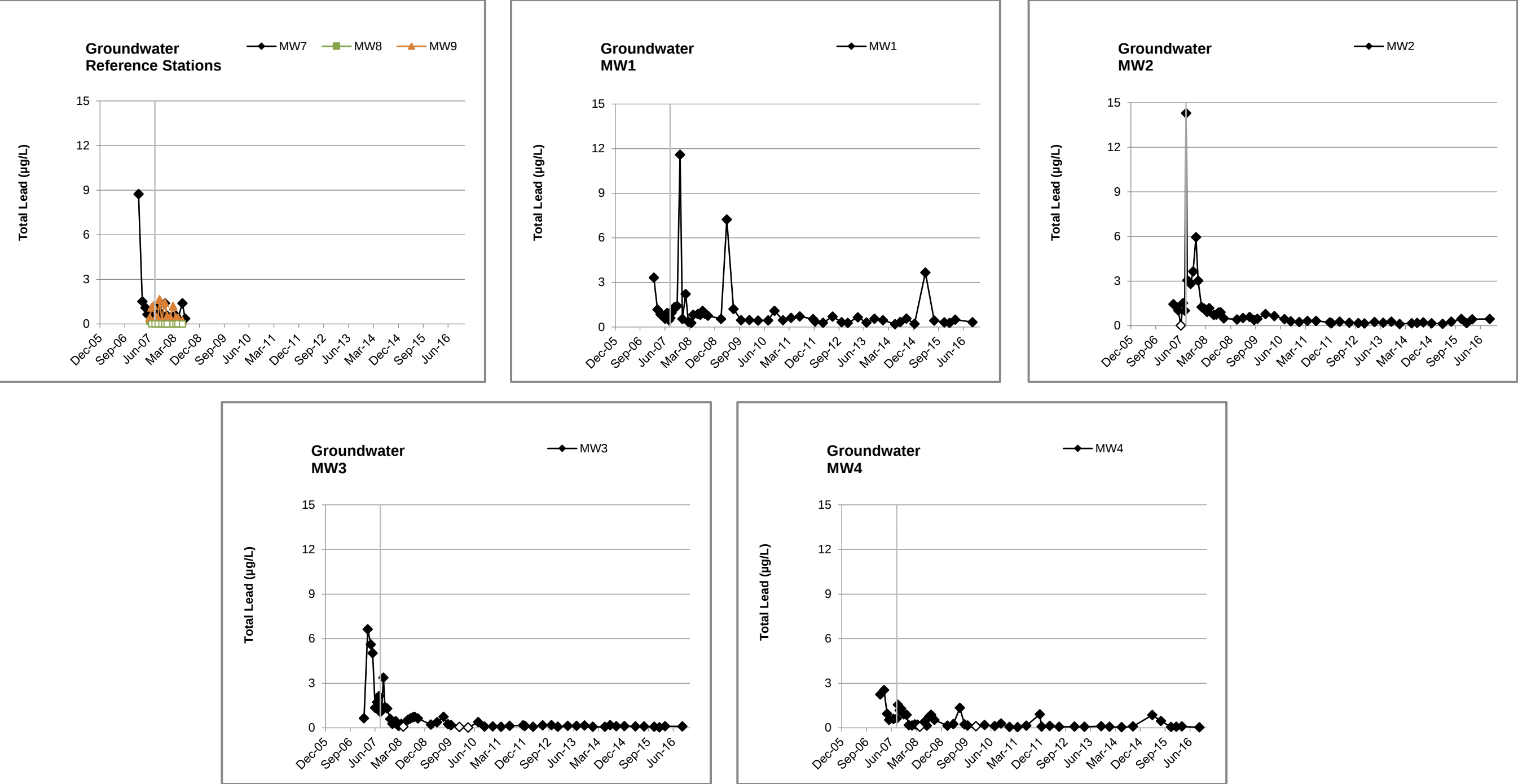
Permit Stations - Surface Water Total Lead (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-18a.
 Time Series Plots: Total Lead
 Permit Stations - Surface Water
 Niblack Exploration Project

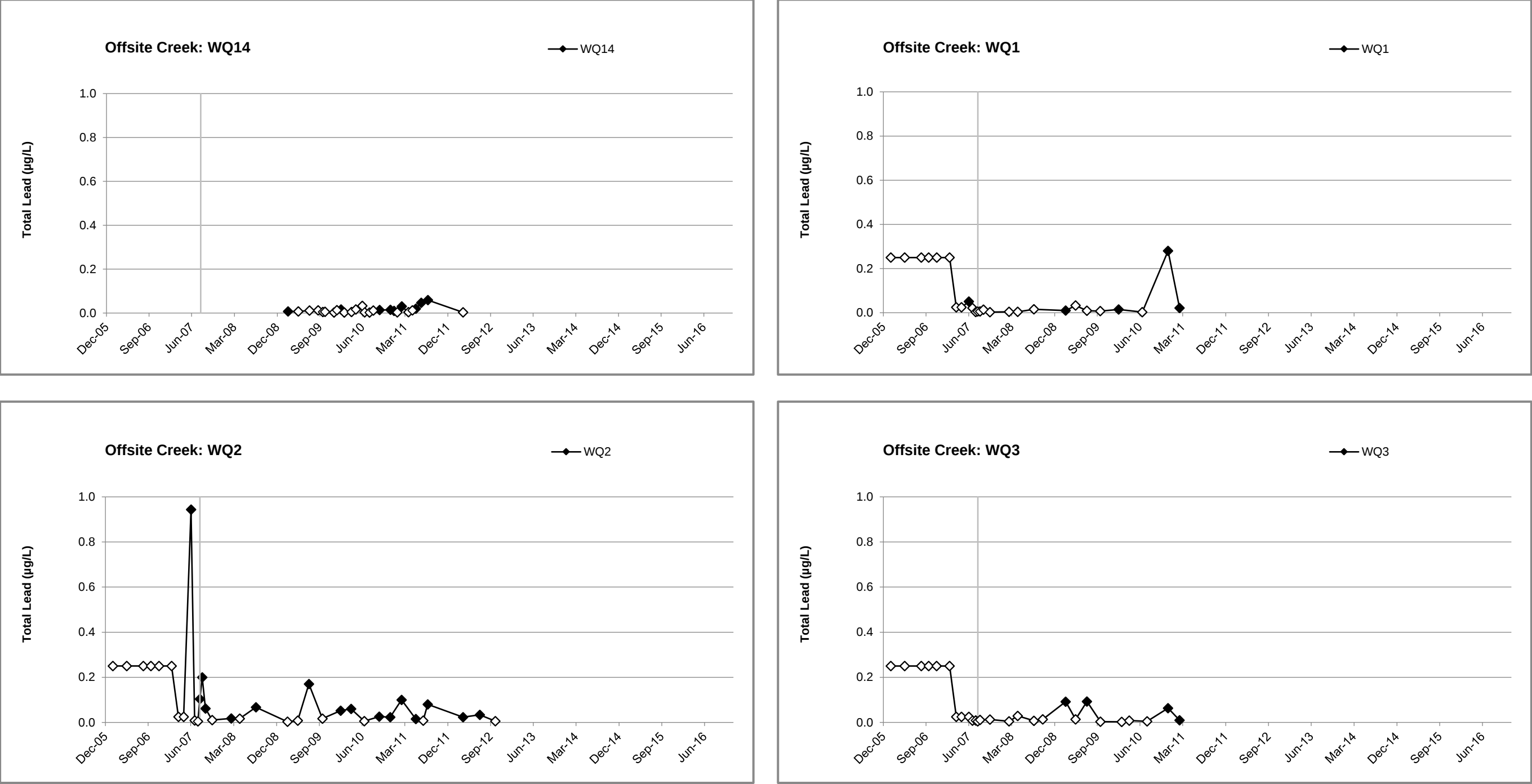
Permit Stations - Groundwater
Total Lead (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-18b.
Time Series Plots: Total Lead
Permit Stations - Groundwater
Niblack Exploration Project

Offsite Surface Water Total Lead (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-18c.
Time Series Plots: Total Lead
Offsite Surface Water
Niblack Exploration Project

Permit Stations - Surface Water Dissolved Lead (µg/L)

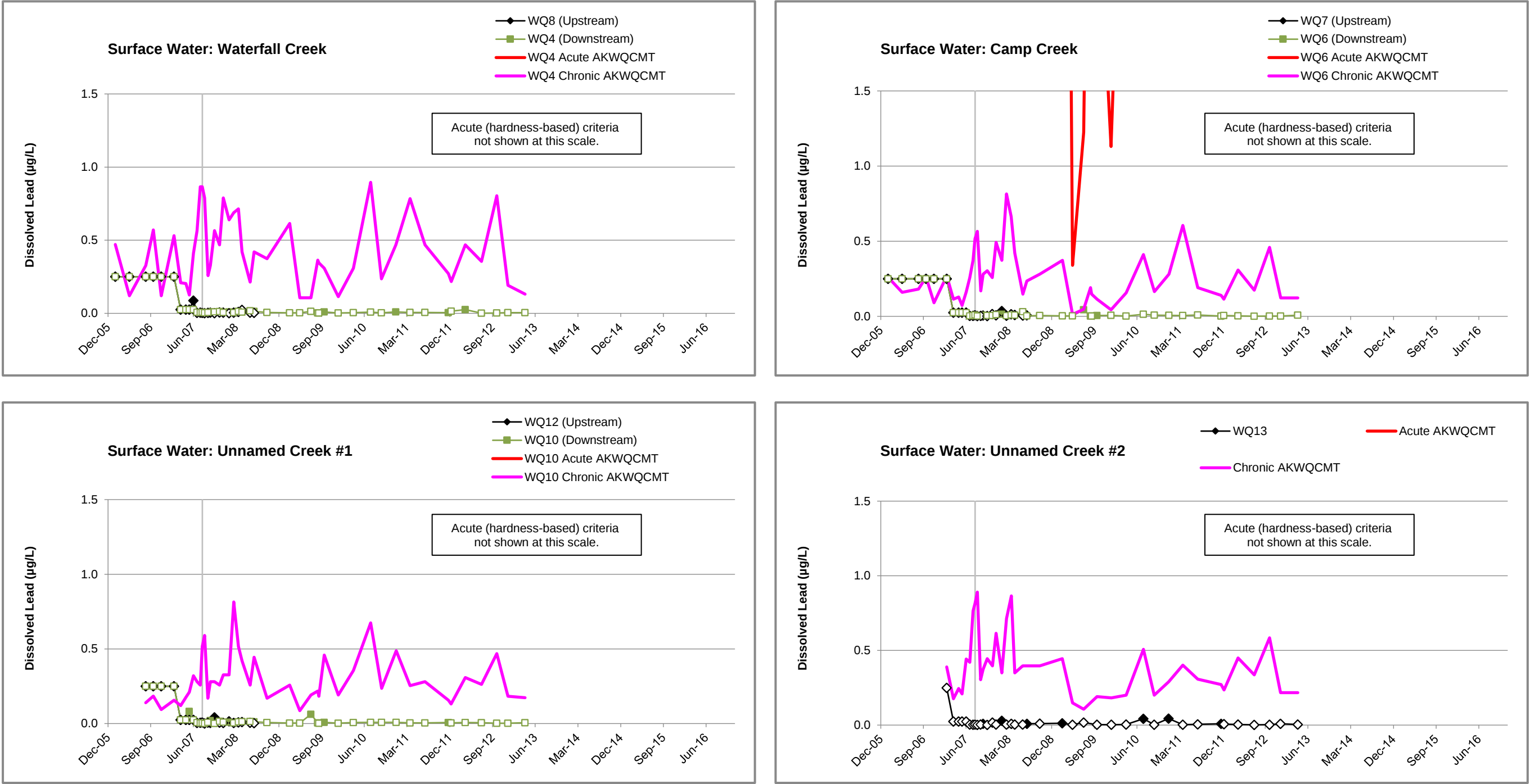
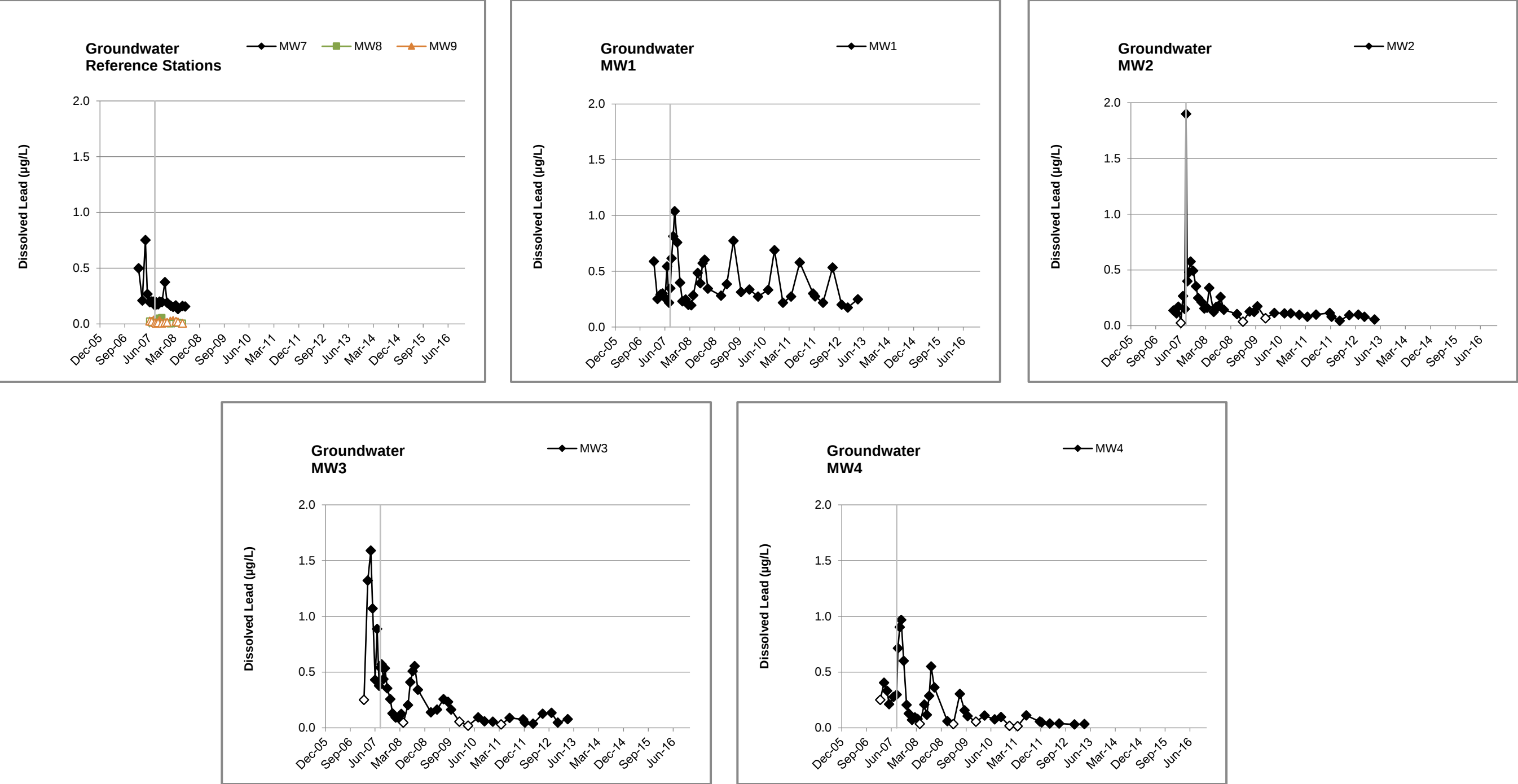


Figure 5-19a.
 Time Series Plots: Dissolved Lead
 Permit Stations - Surface Water
 Niblack Exploration Project

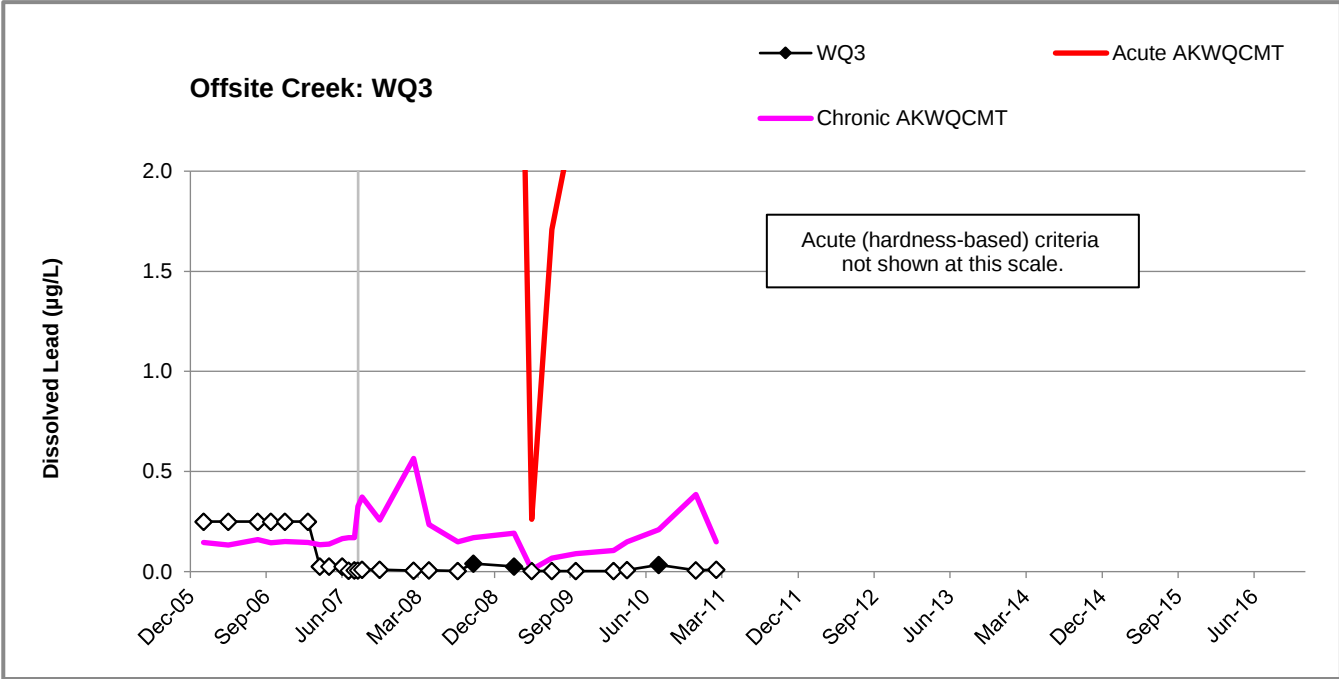
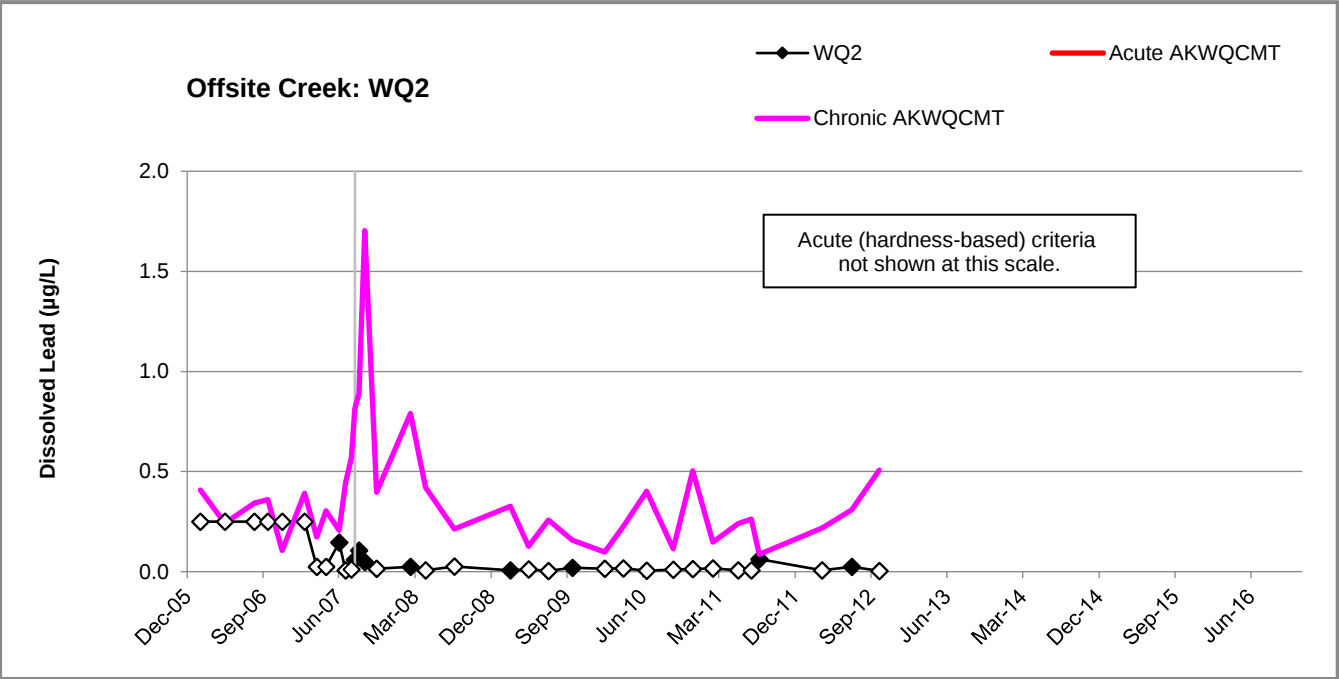
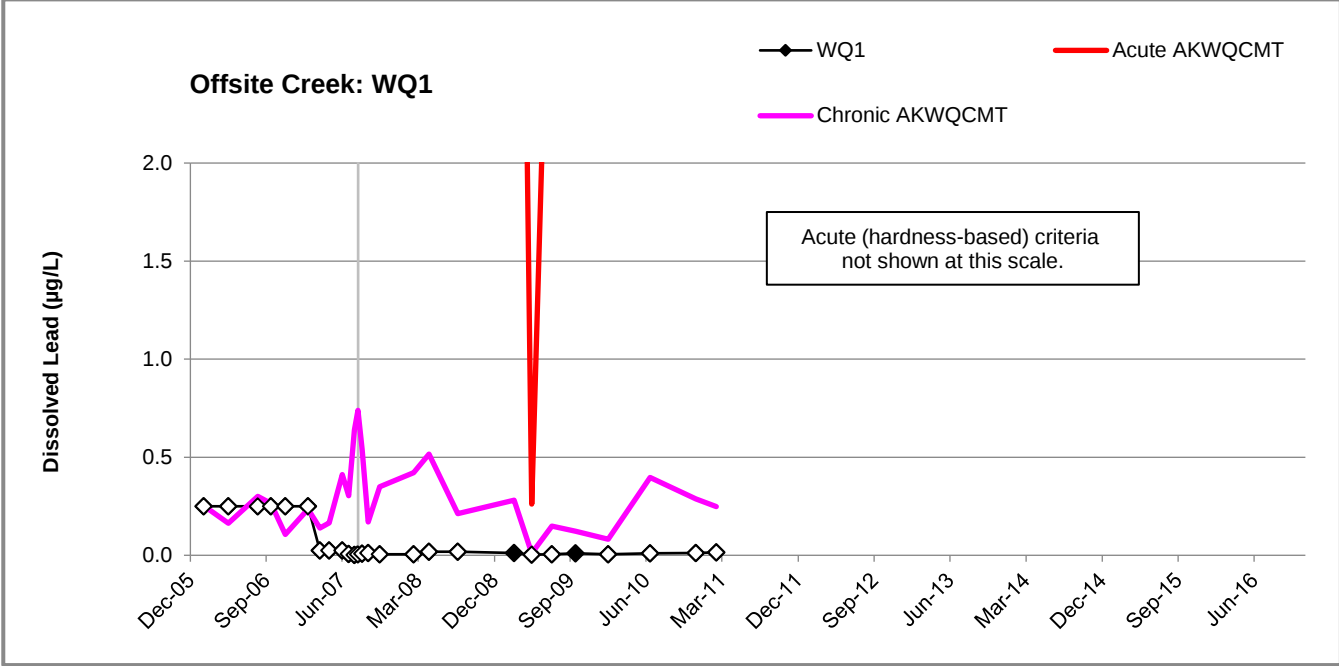
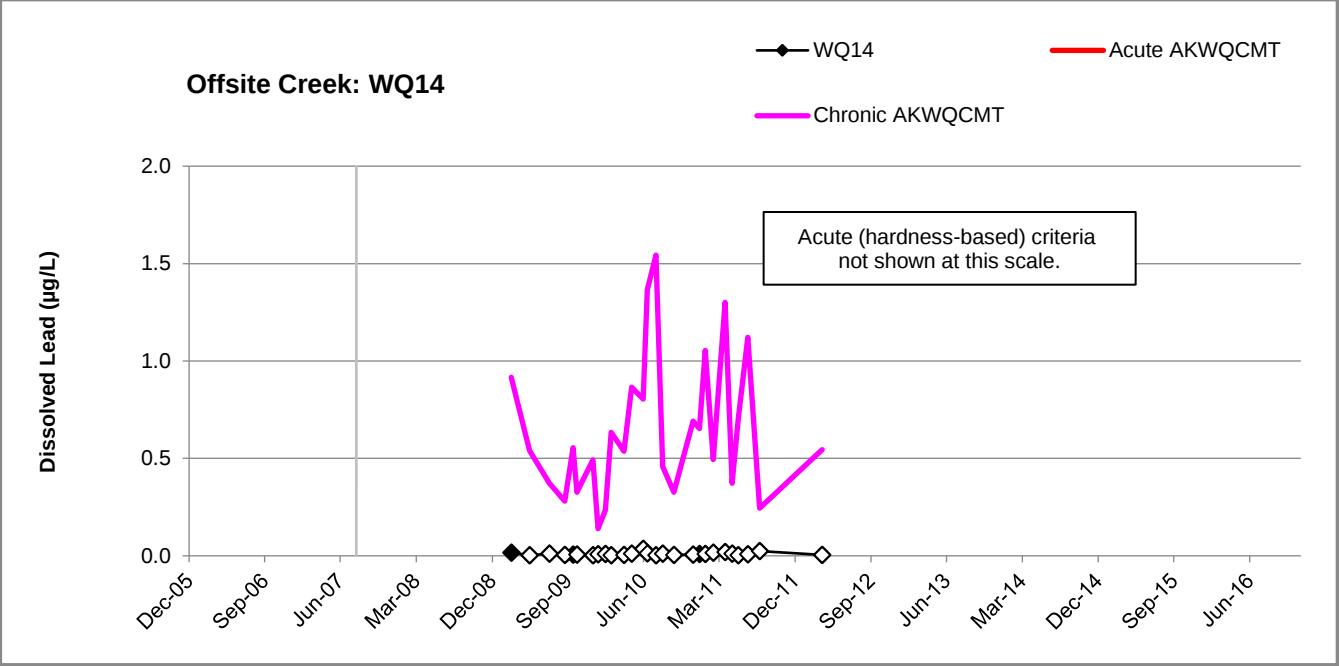
Permit Stations - Groundwater
Dissolved Lead (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-19b.
Time Series Plots: Dissolved Lead
Permit Stations - Groundwater
Niblack Exploration Project

Offsite Surface Water Dissolved Lead (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-19c.
Time Series Plots: Dissolved Lead
Offsite Surface Water
Niblack Exploration Project

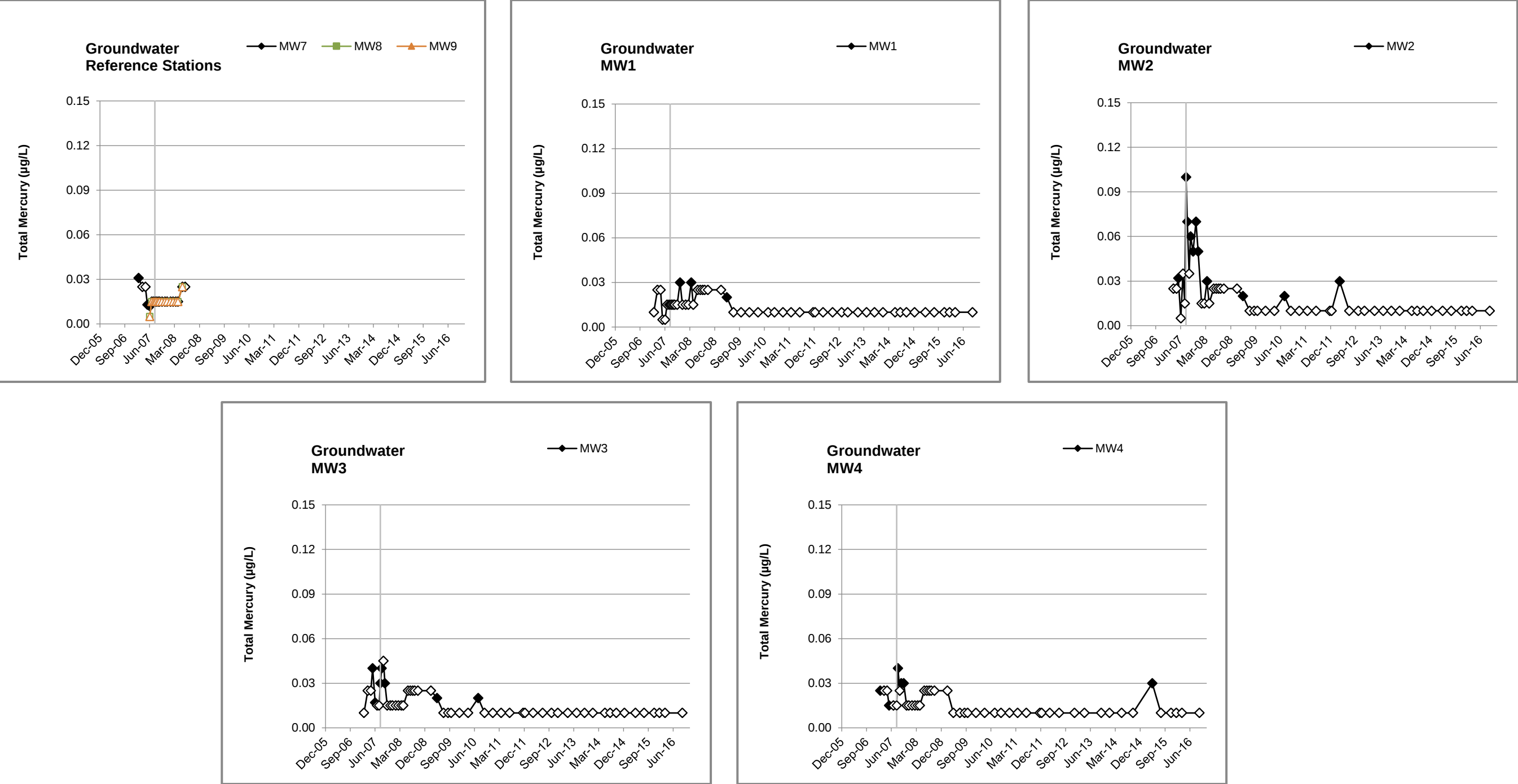
Permit Stations - Surface Water
Total Mercury (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-20a.
Time Series Plots: Total Mercury
Permit Stations - Surface Water
Niblack Exploration Project

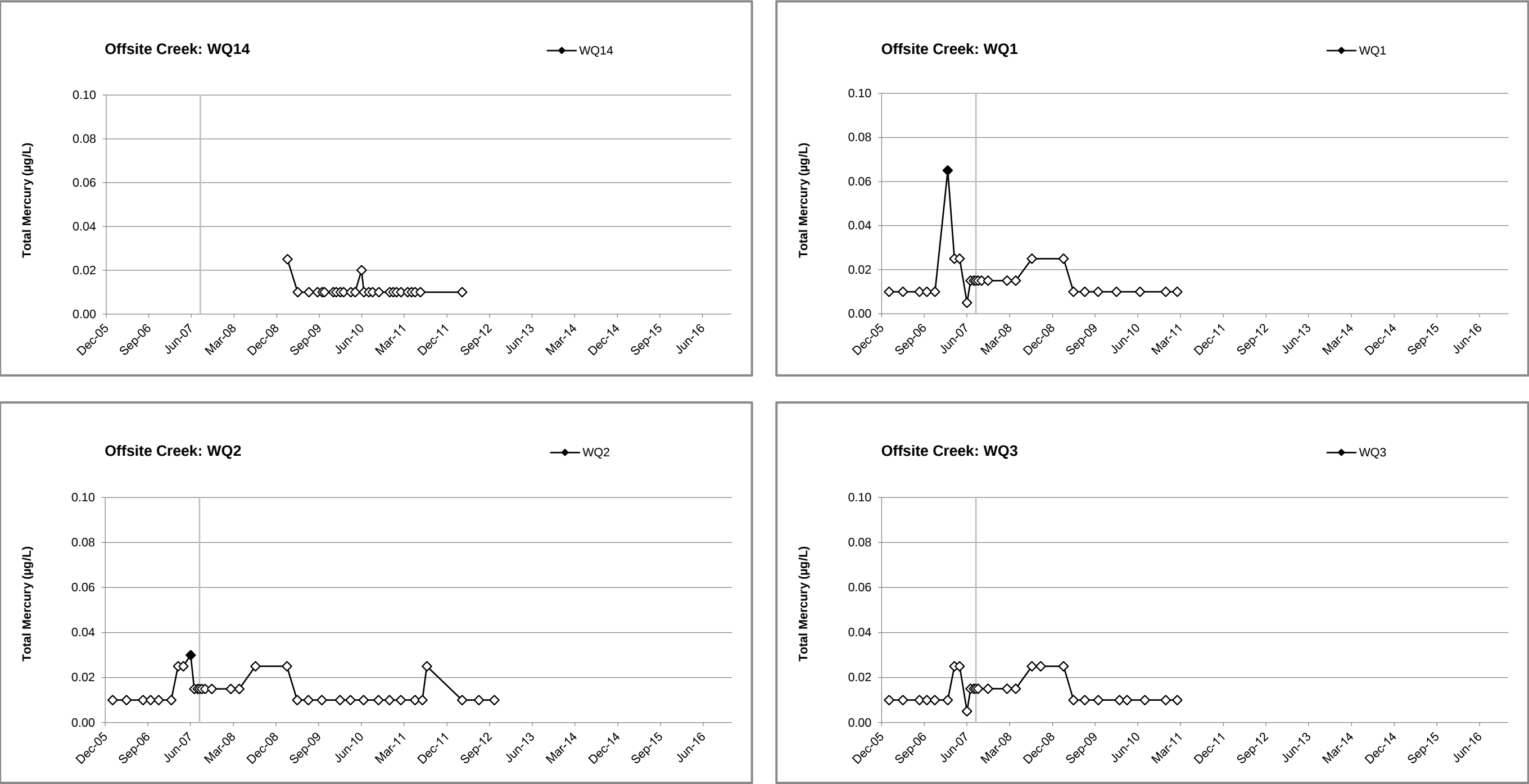
Permit Stations - Groundwater
Total Mercury (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-20b.
Time Series Plots: Total Mercury
Permit Stations - Groundwater
Niblack Exploration Project

Offsite Surface Water Total Mercury (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-20c.
Time Series Plots: Total Mercury
Offsite Surface Water
Niblack Exploration Project

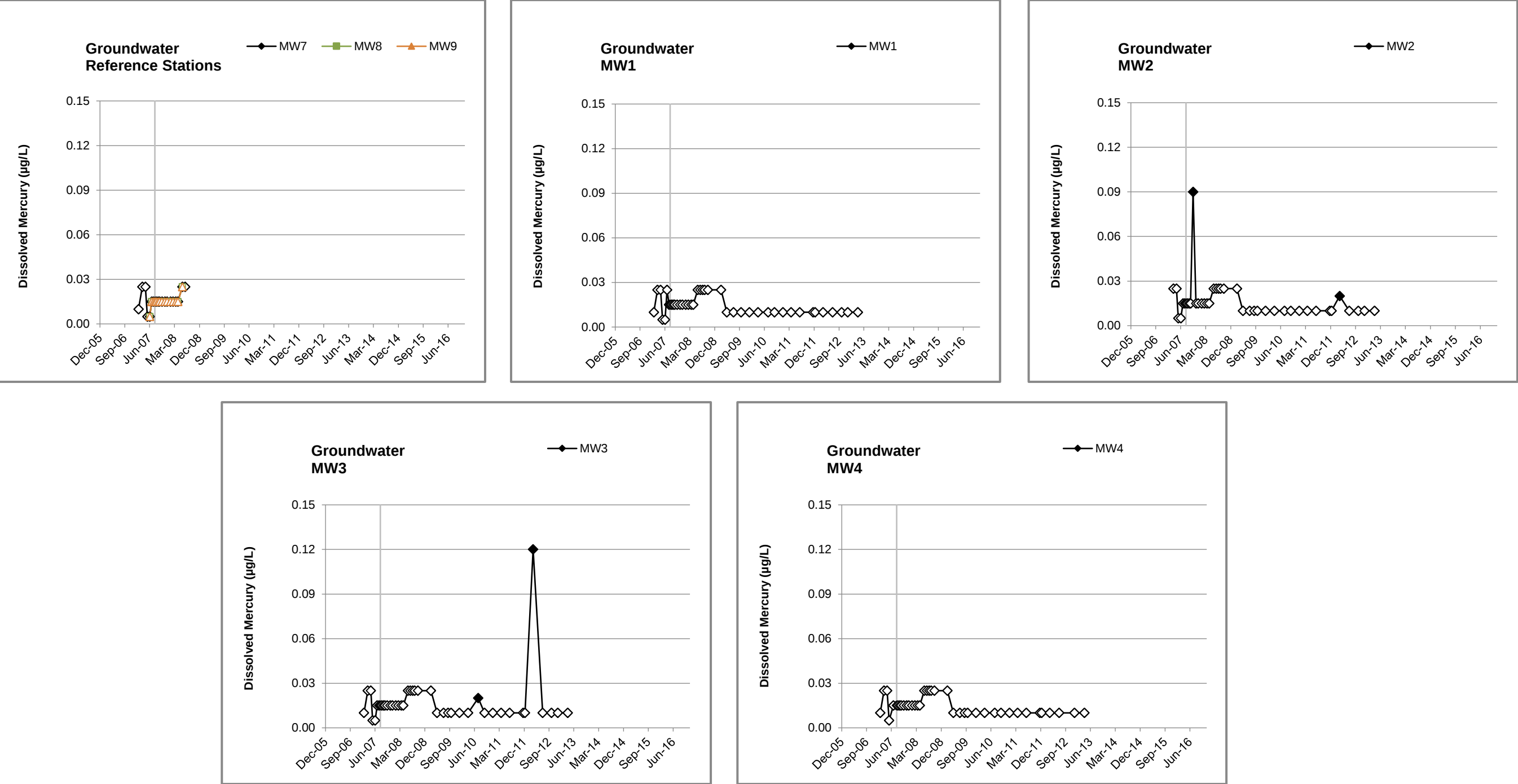
Permit Stations - Surface Water Dissolved Mercury (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-21a.
 Time Series Plots: Dissolved Mercury
 Permit Stations - Surface Water
 Niblack Exploration Project

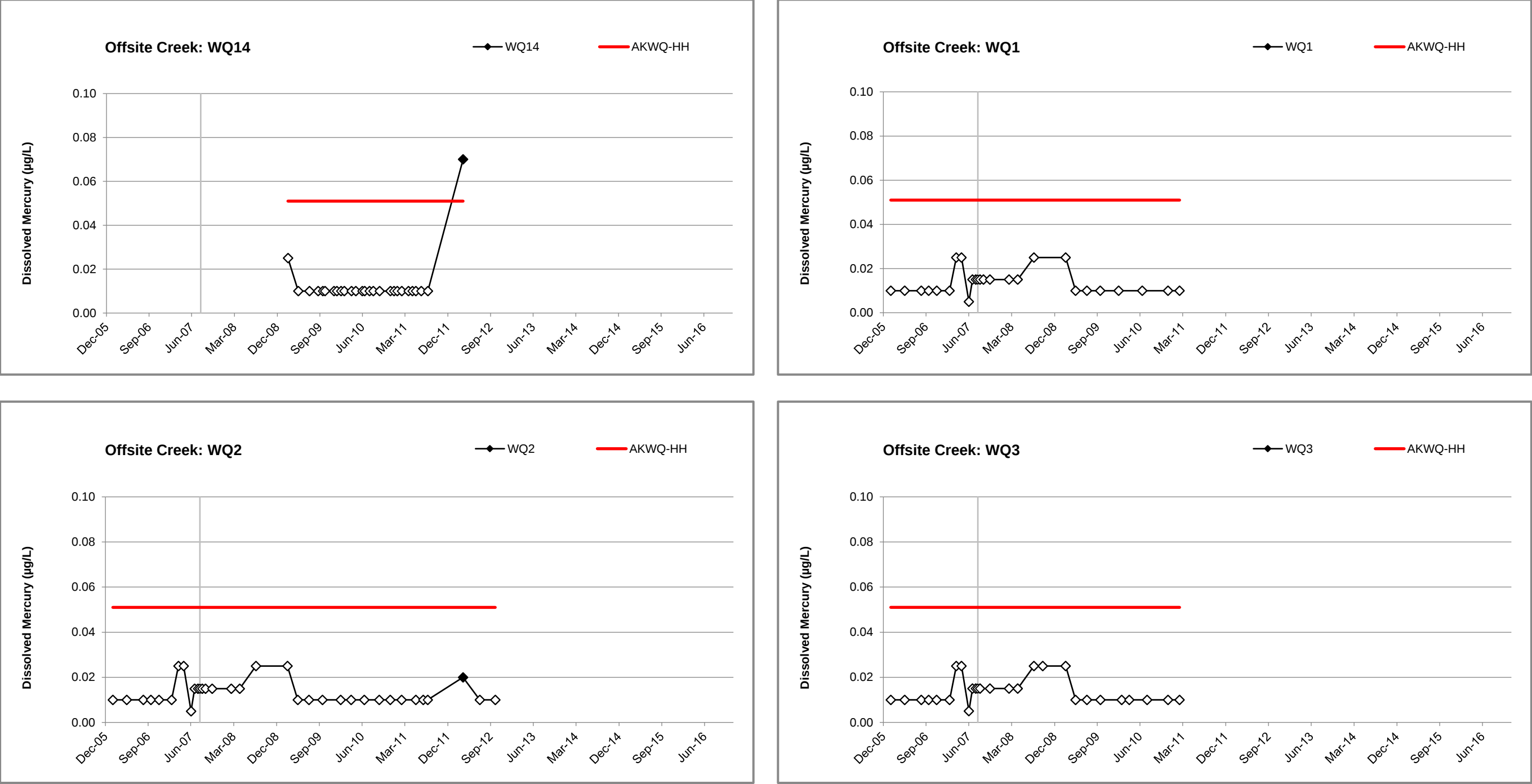
Permit Stations - Groundwater
Dissolved Mercury (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-21b.
Time Series Plots: Dissolved Mercury
Permit Stations - Groundwater
Niblack Exploration Project

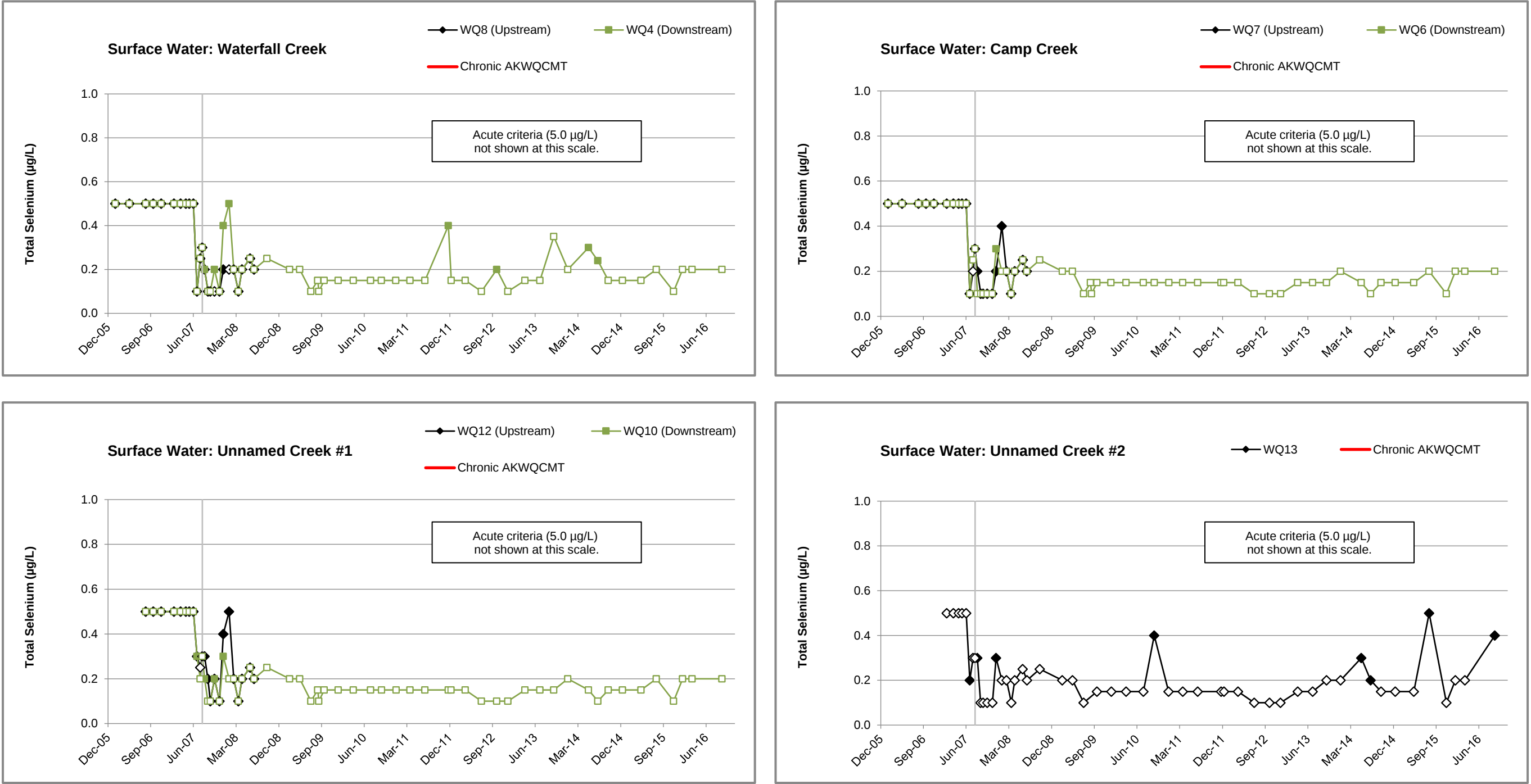
Offsite Surface Water Dissolved Mercury (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-21c.
Time Series Plots: Dissolved Mercury
Offsite Surface Water
Niblack Exploration Project

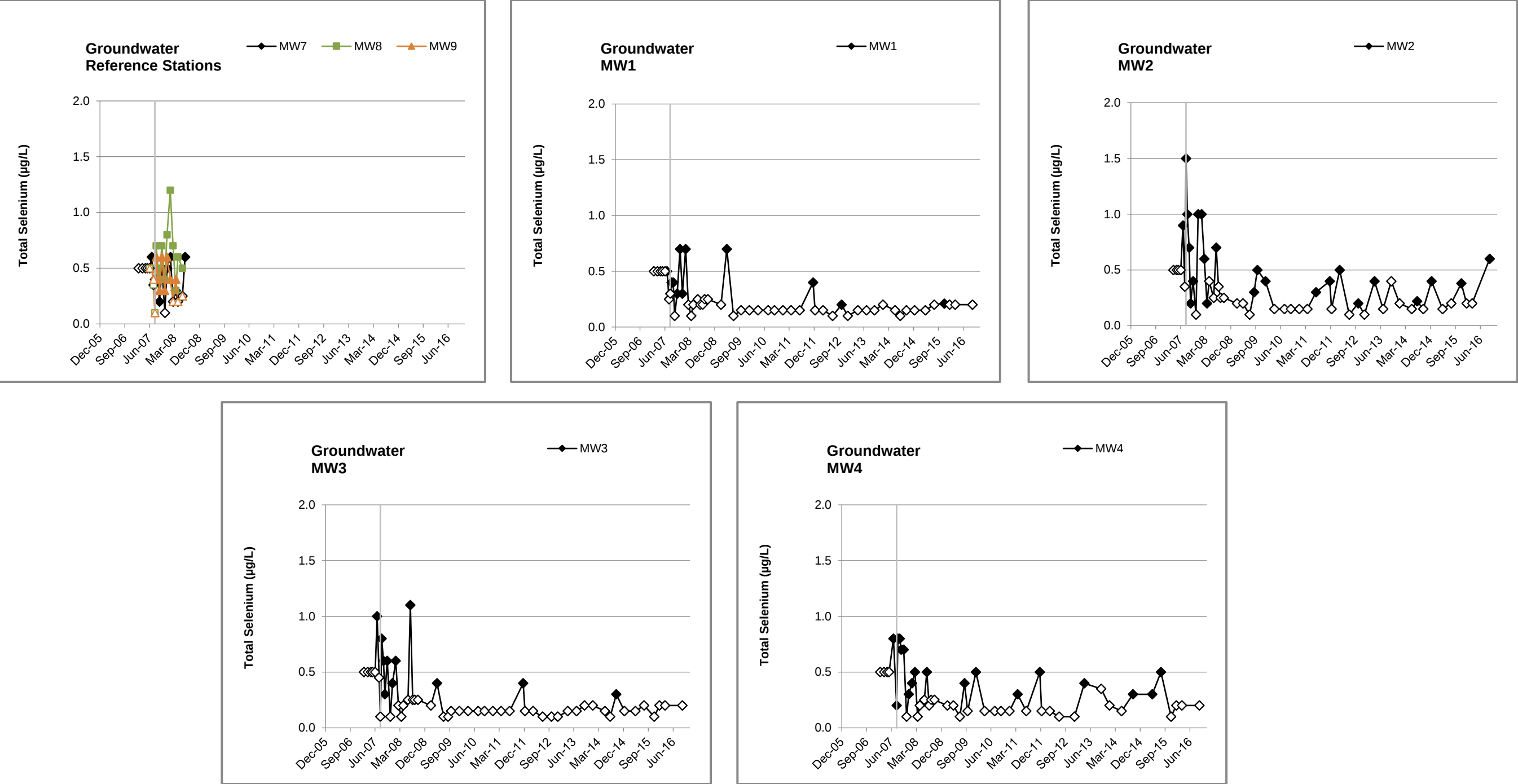
Permit Stations - Surface Water Total Selenium (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-22a.
 Time Series Plots: Total Selenium
 Permit Stations - Surface Water
 Niblack Exploration Project

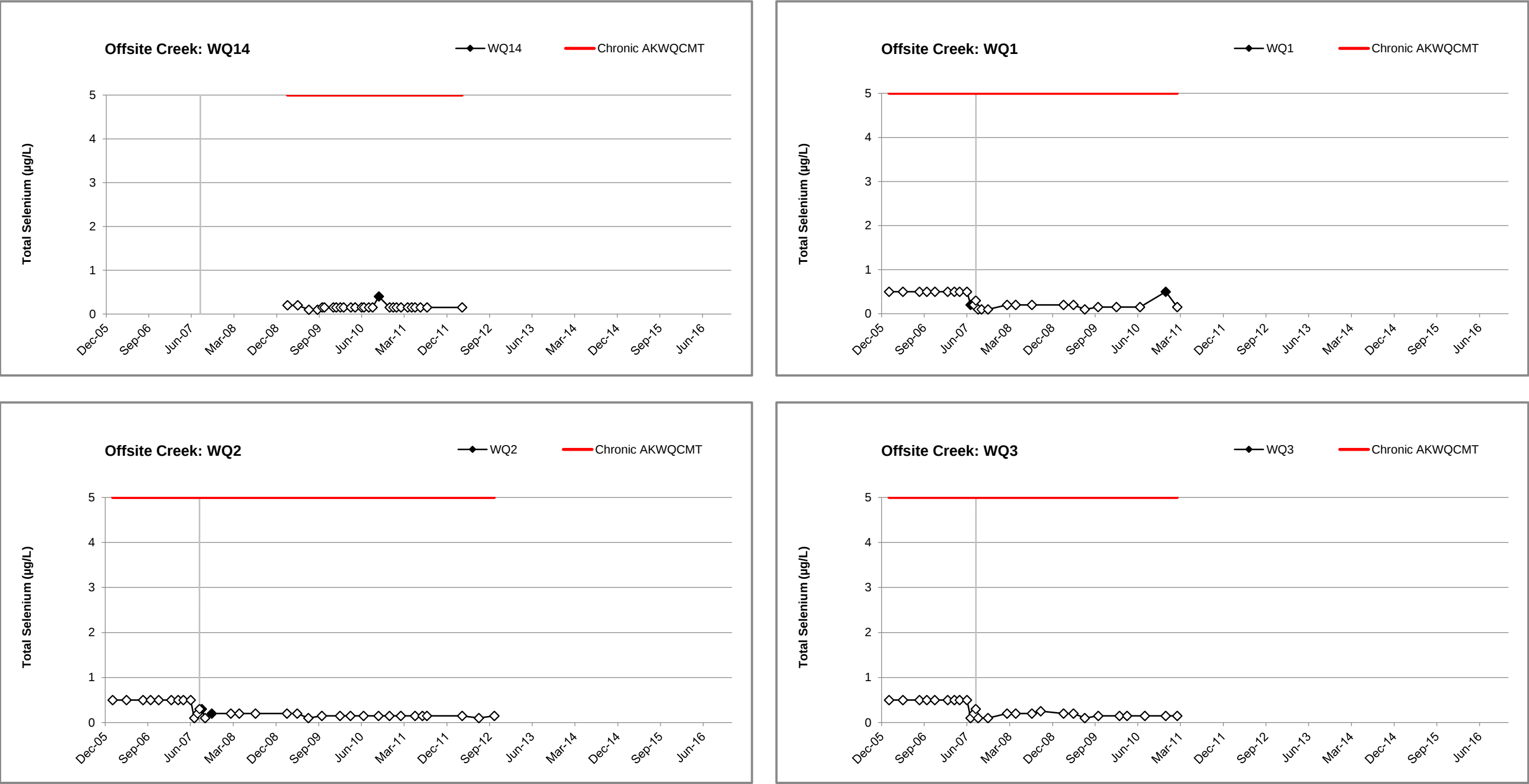
Permit Stations - Groundwater
Total Selenium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-22b.
Time Series Plots: Total Selenium
Permit Stations - Groundwater
Niblack Exploration Project

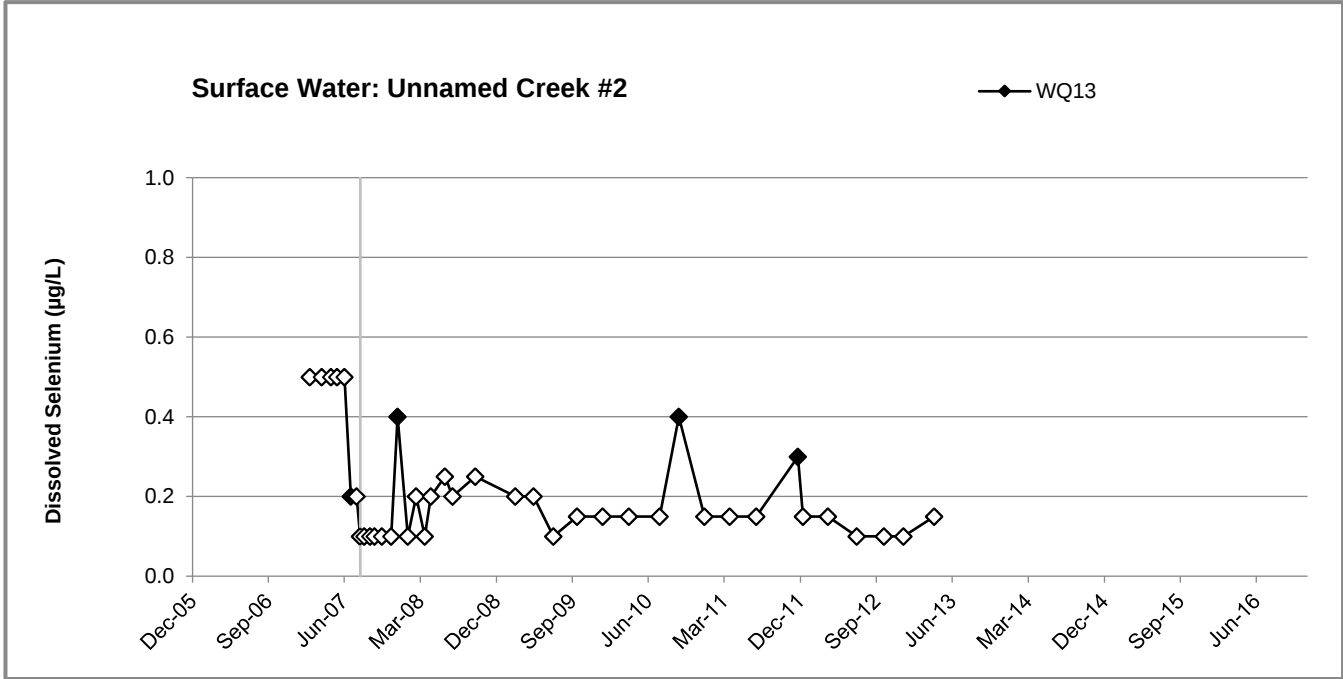
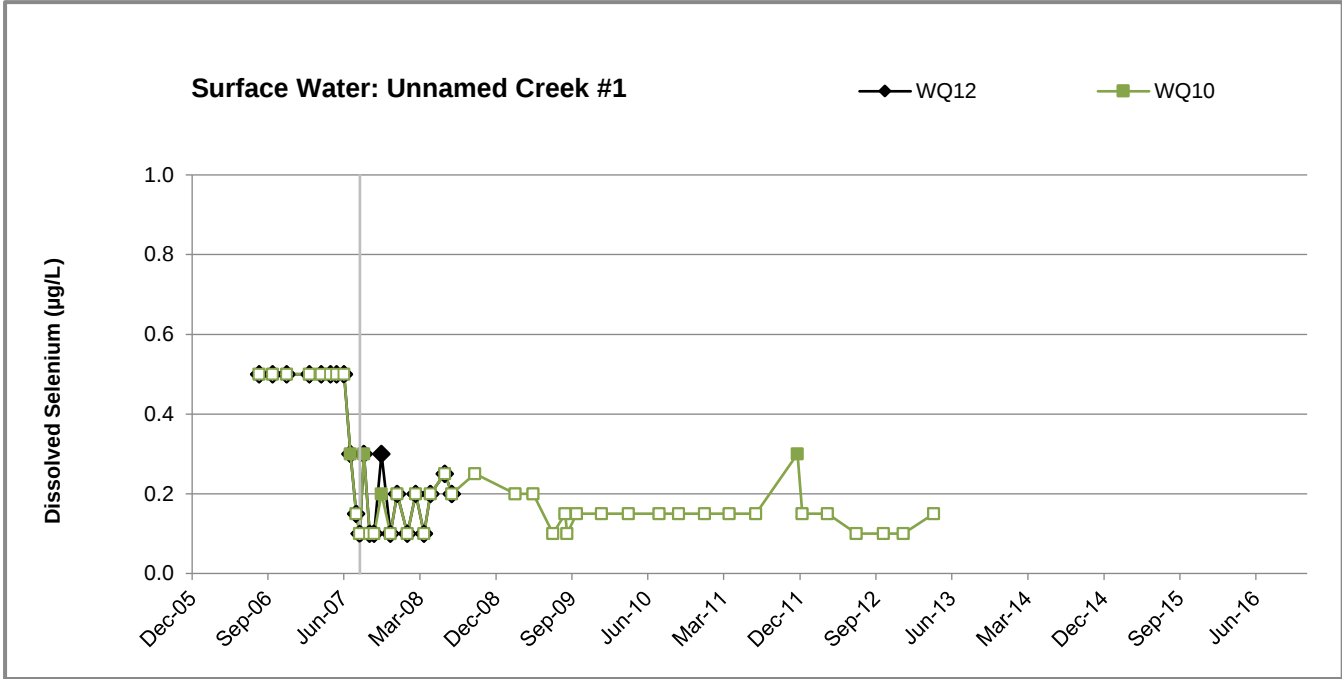
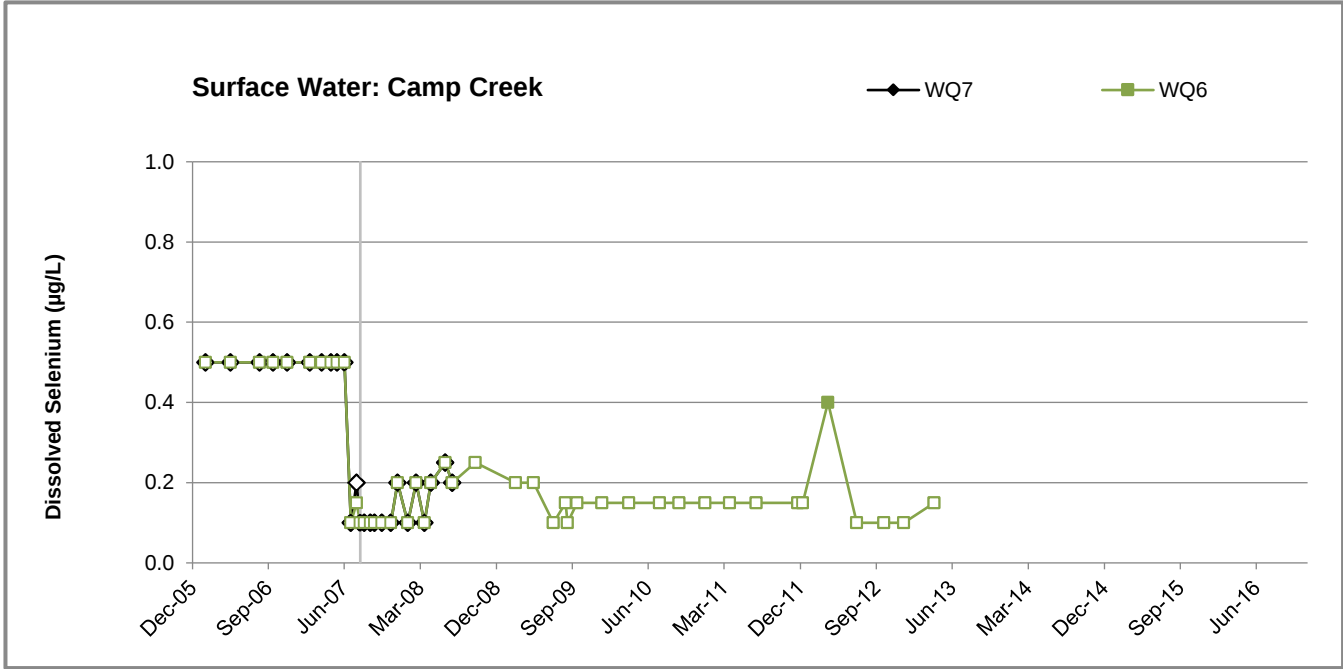
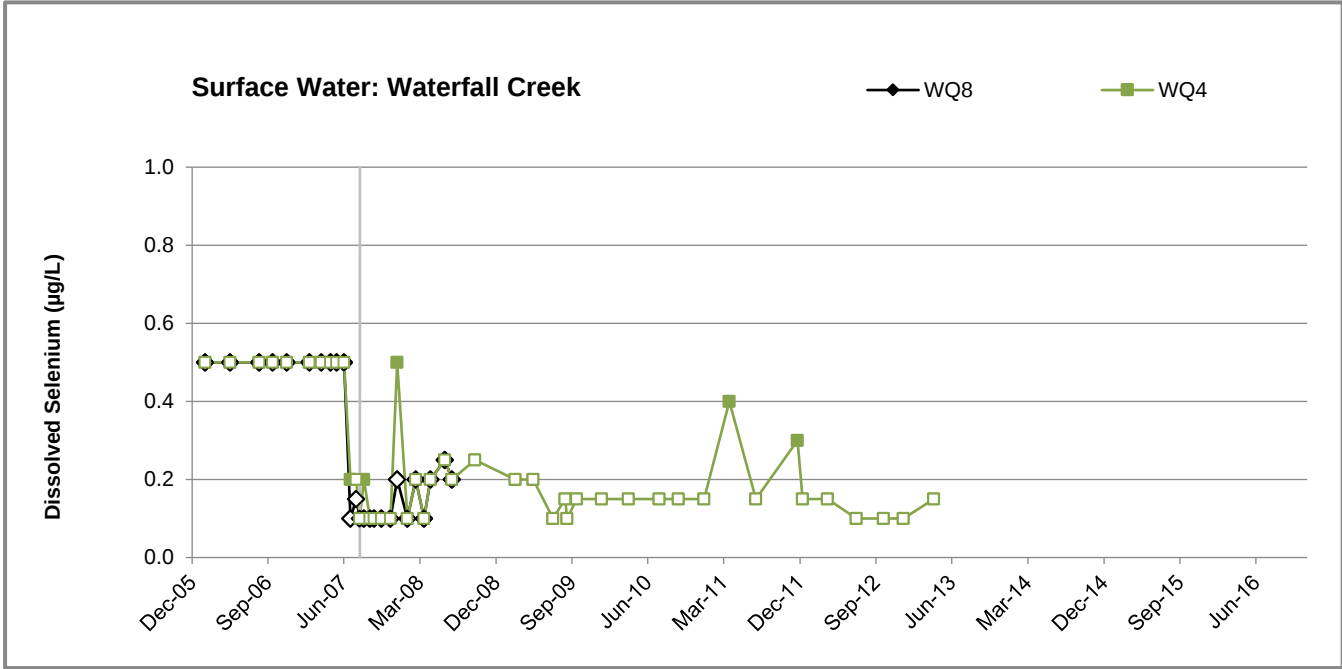
Offsite Surface Water Total Selenium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-22c.
Time Series Plots: Total Selenium
Offsite Surface Water
Niblack Exploration Project

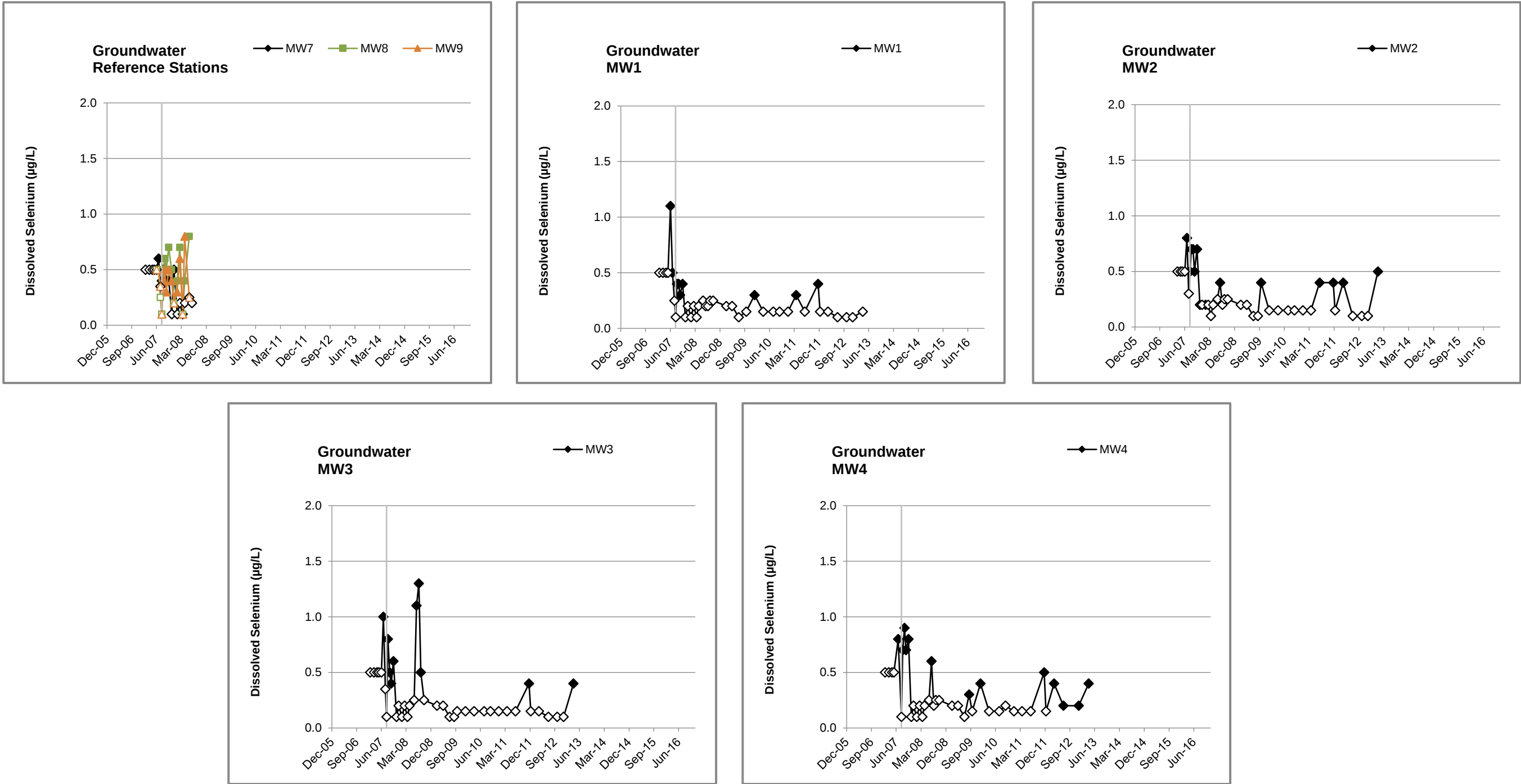
Permit Stations - Surface Water
Dissolved Selenium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-23a.
Time Series Plots: Dissolved Selenium
Permit Stations - Surface Water
Niblack Exploration Project

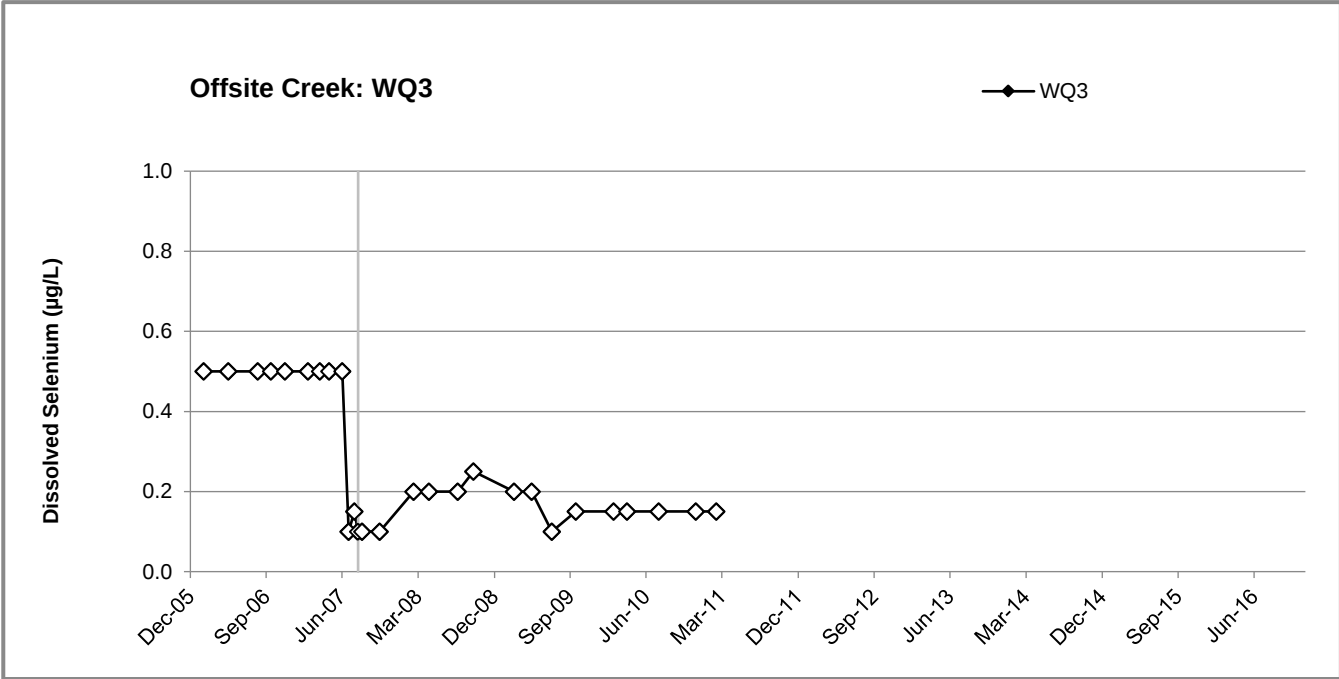
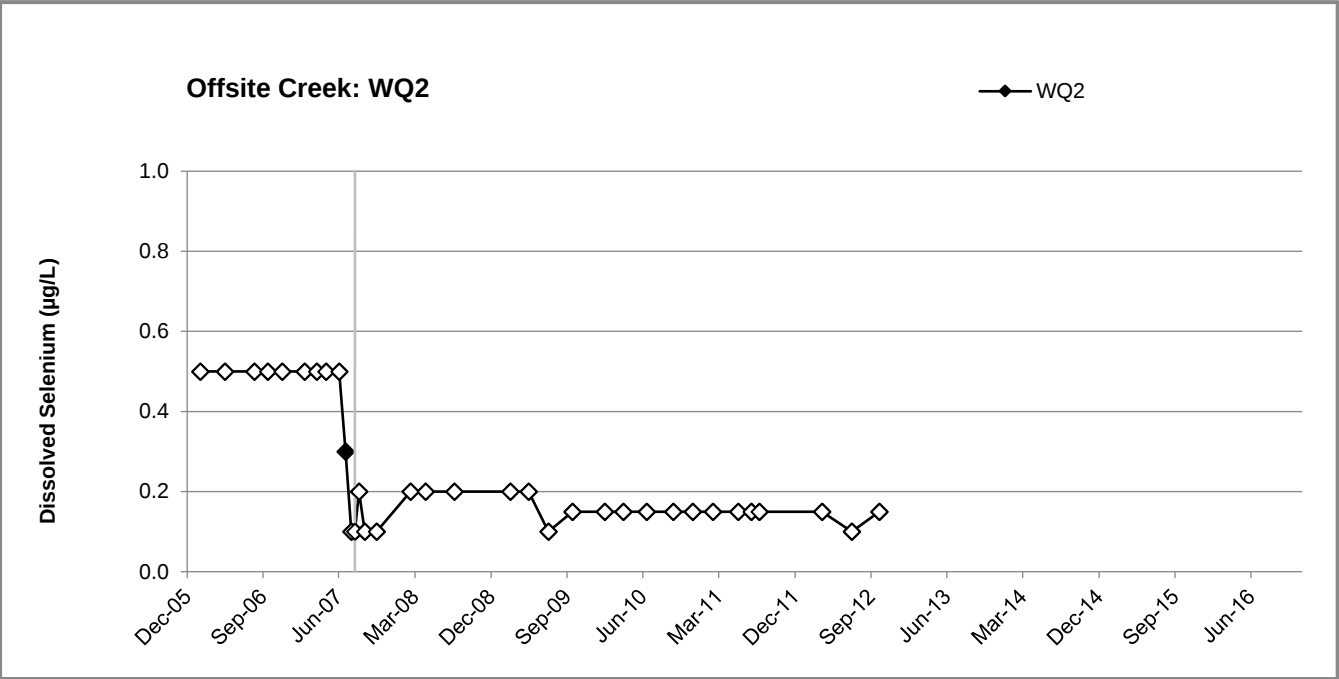
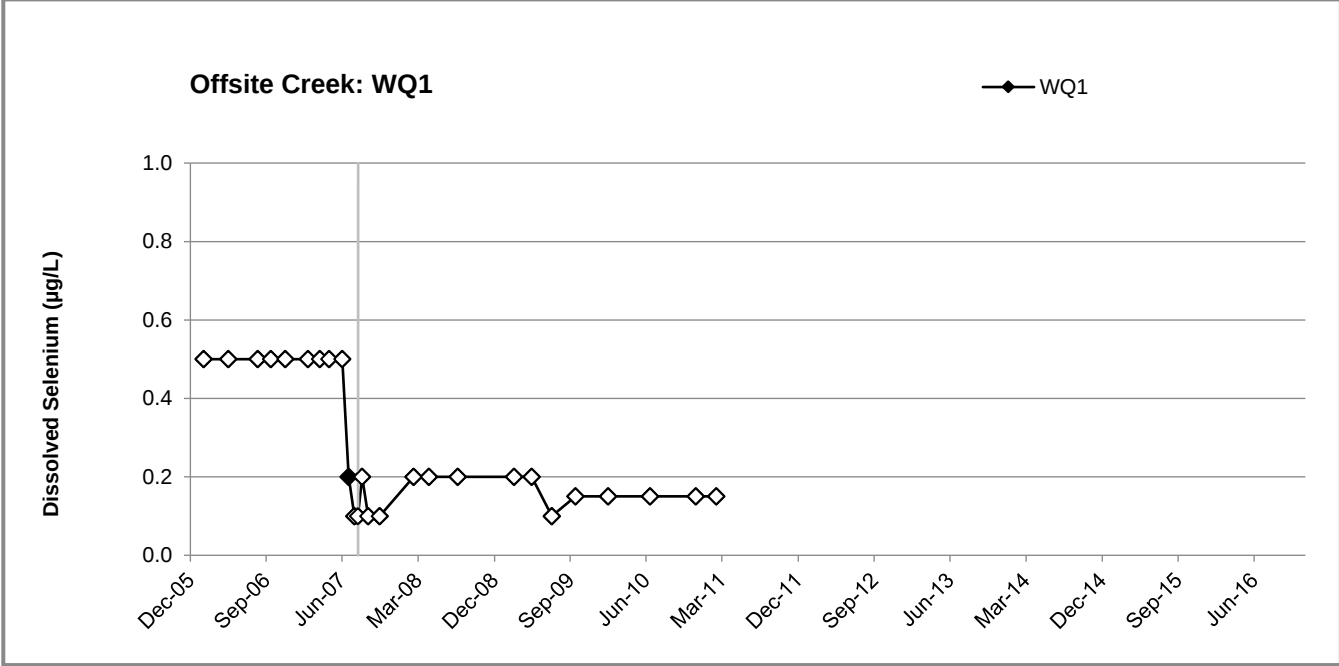
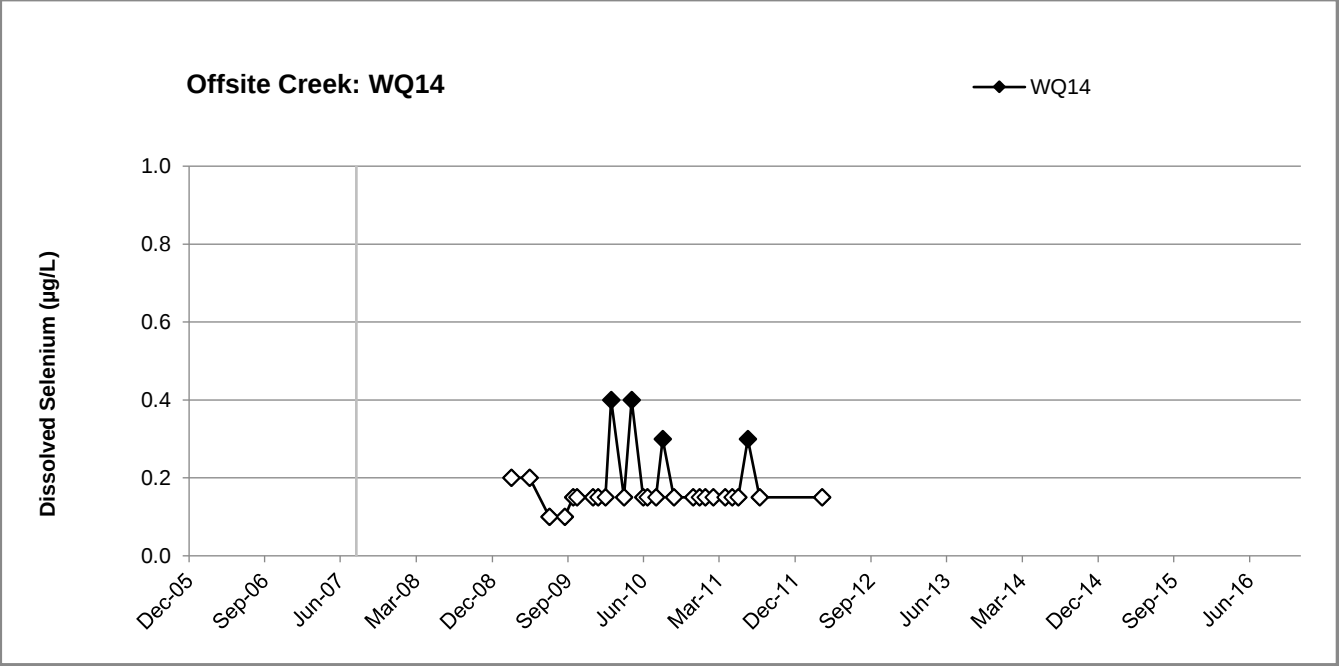
Permit Stations - Groundwater Dissolved Selenium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-23b.
Time Series Plots: Dissolved Selenium
Permit Stations - Groundwater
Niblack Exploration Project

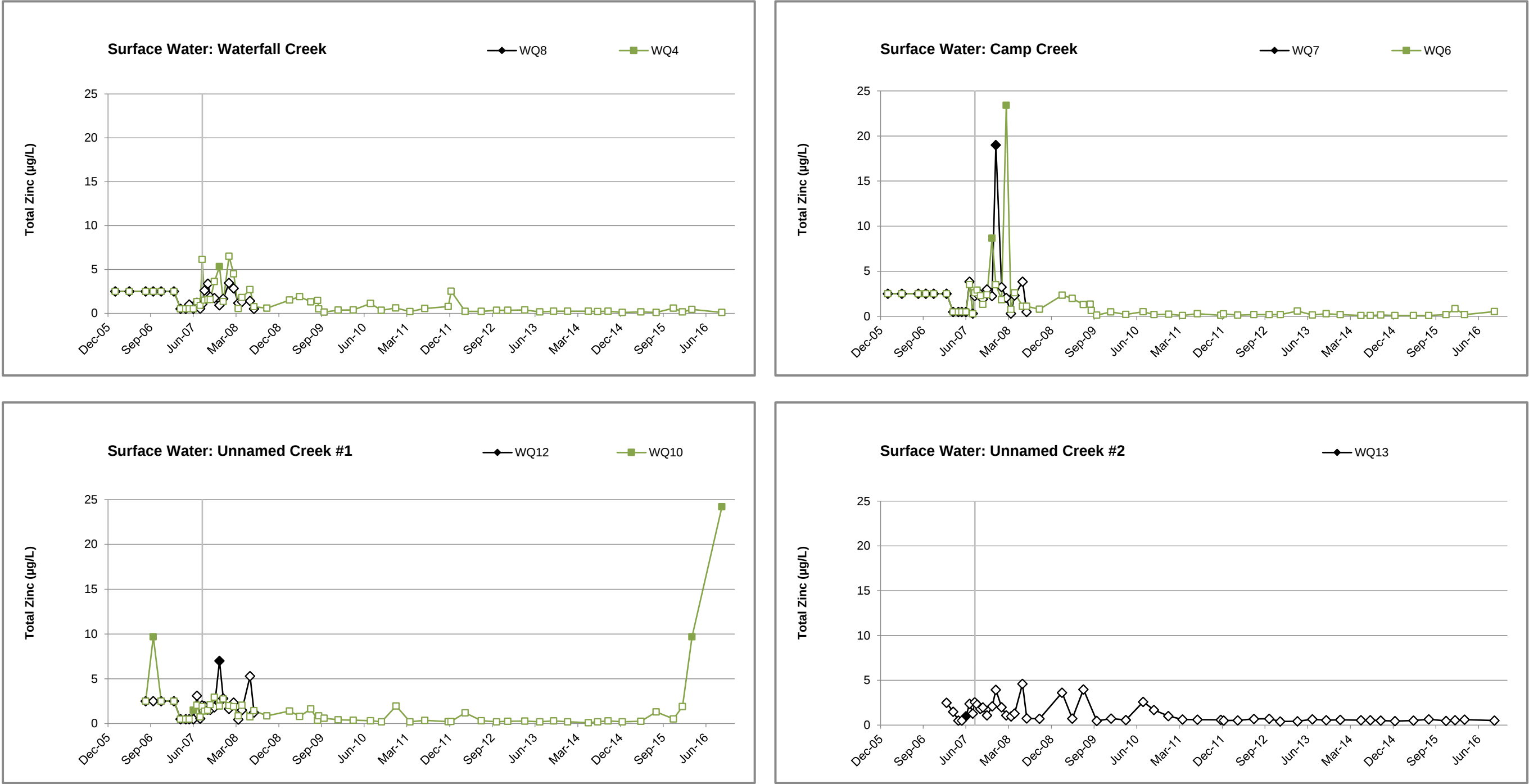
Offsite Surface Water Dissolved Selenium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-23c.
Time Series Plots: Dissolved Selenium
Offsite Surface Water
Niblack Exploration Project

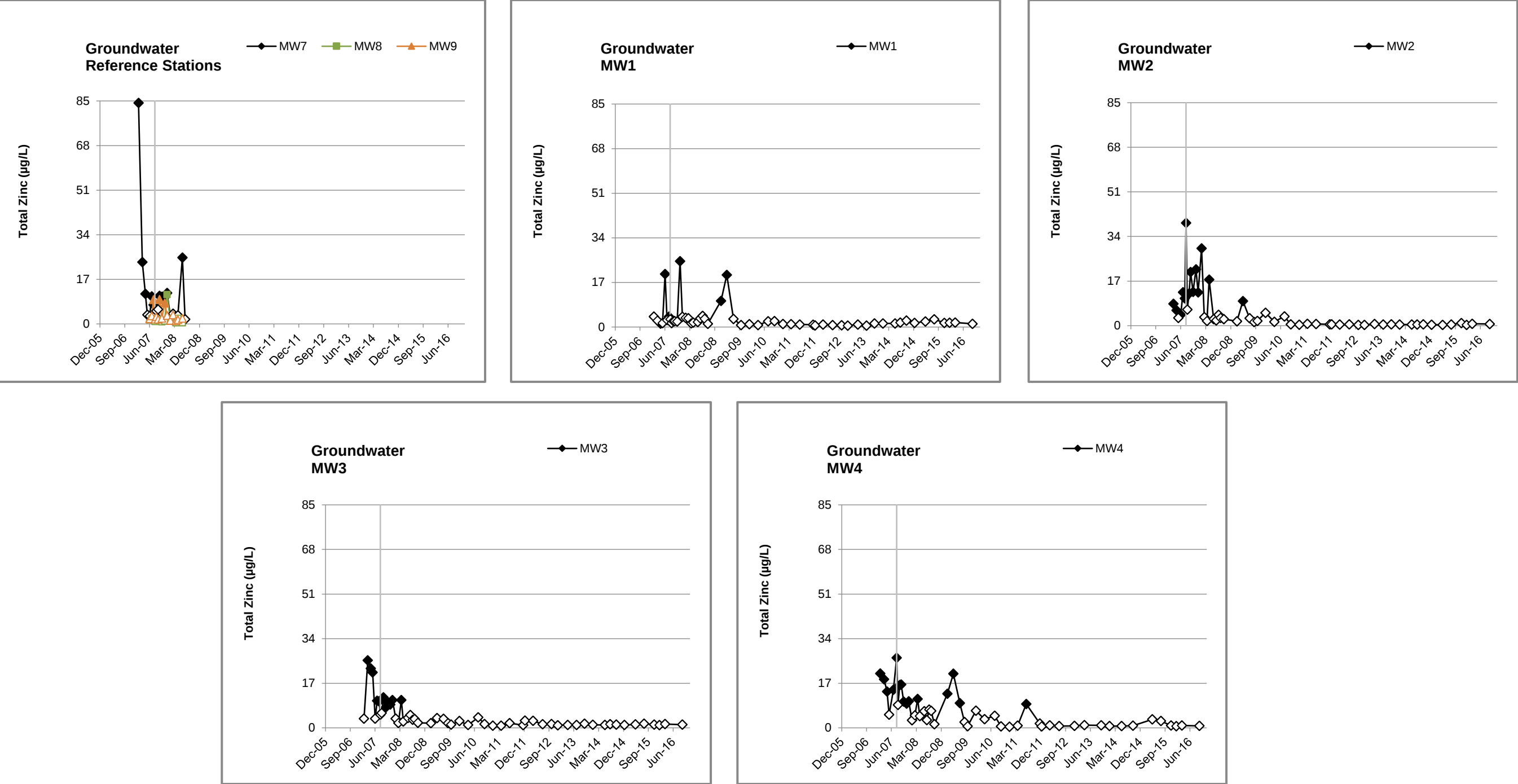
Permit Stations - Surface Water Total Zinc (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-24a.
 Time Series Plots: Total Zinc
 Permit Stations - Surface Water
 Niblack Exploration Project

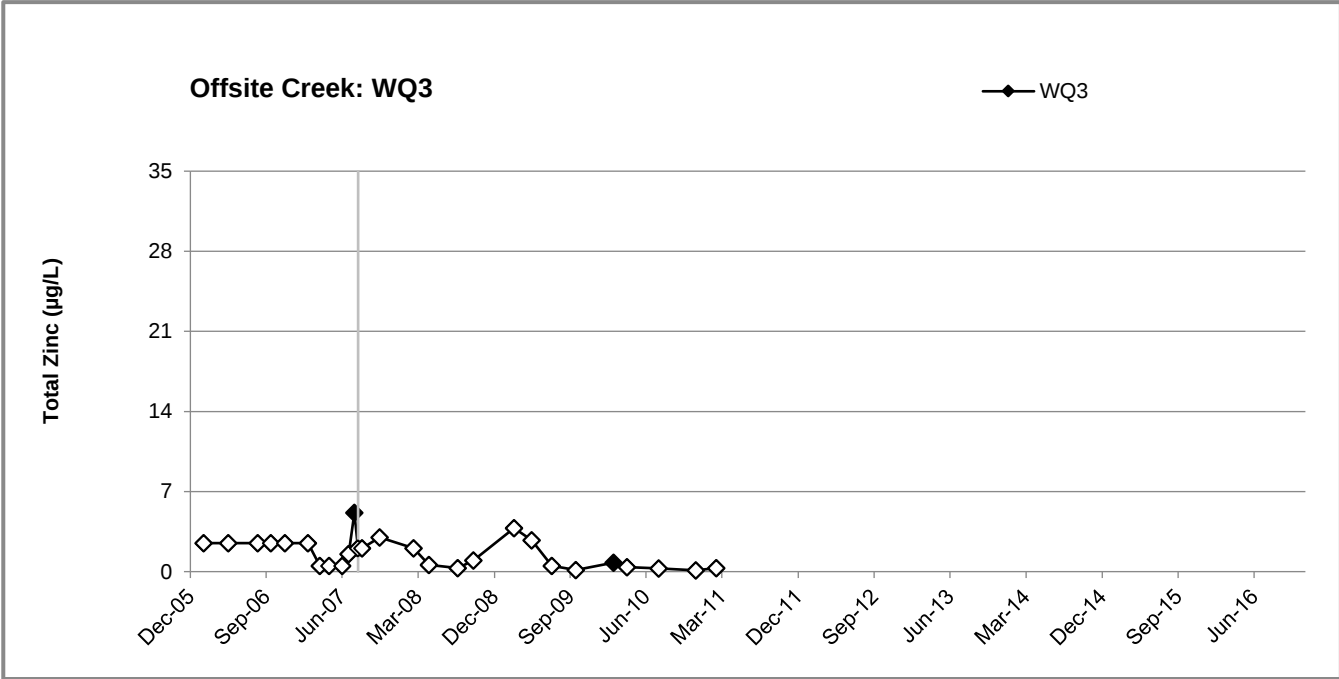
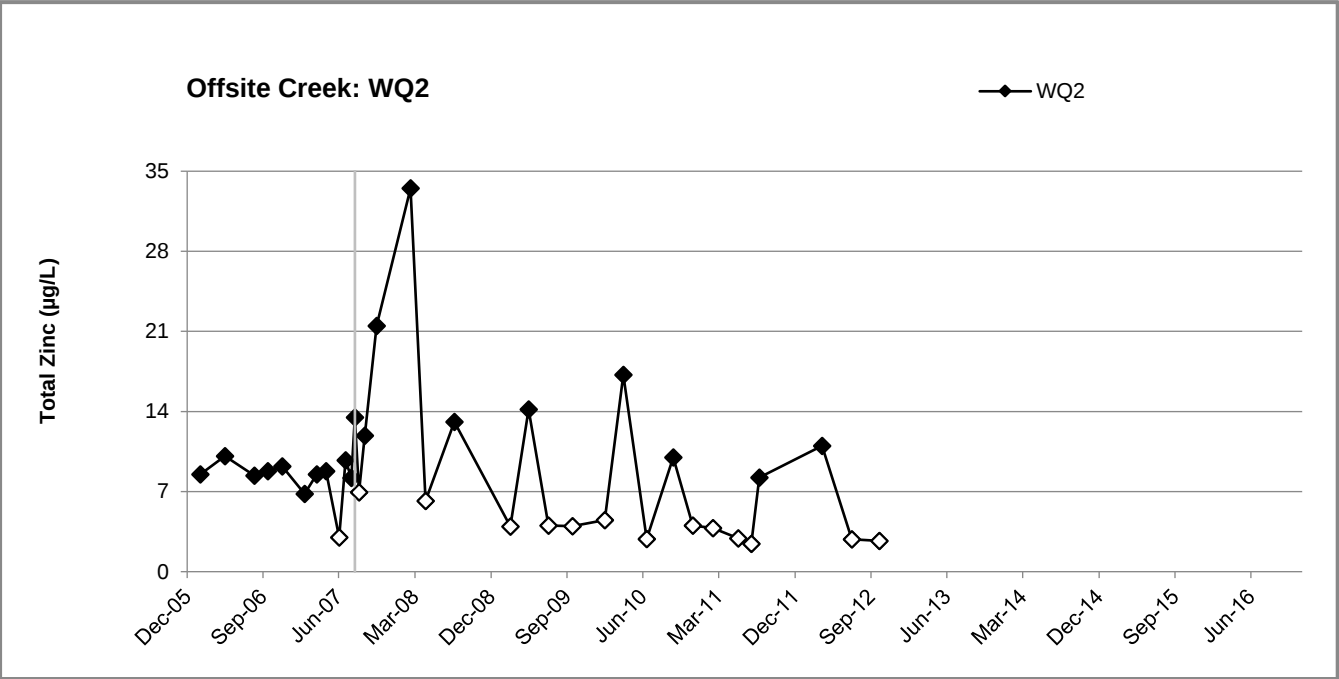
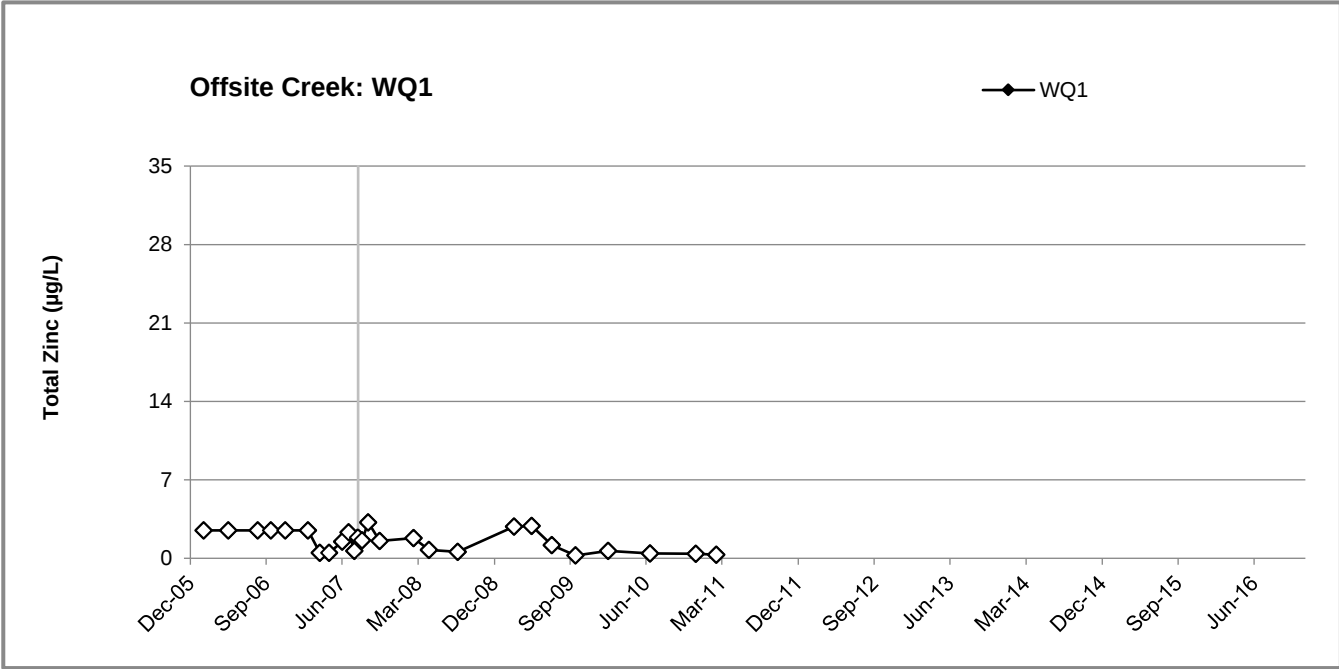
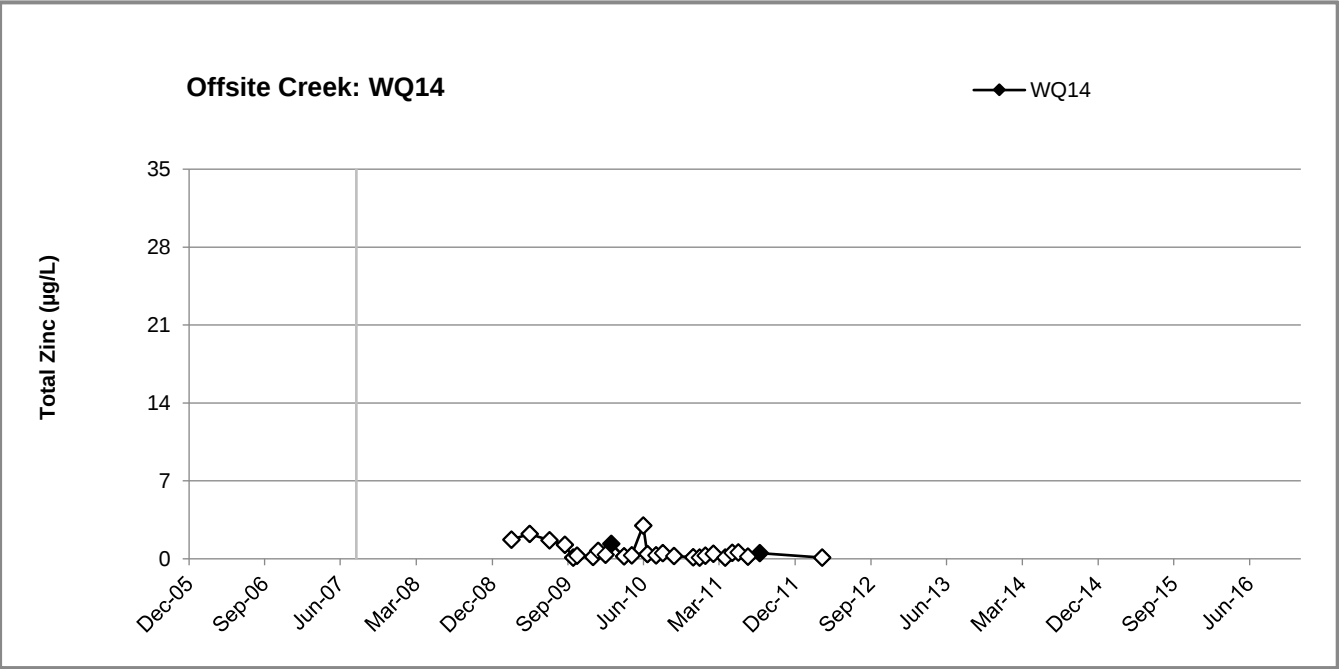
Permit Stations - Groundwater
Total Zinc (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-24b.
Time Series Plots: Total Zinc
Permit Stations - Groundwater
Niblack Exploration Project

Offsite Surface Water Total Zinc (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-24c.
Time Series Plots: Total Zinc
Offsite Surface Water
Niblack Exploration Project

Permit Stations - Surface Water Dissolved Zinc (µg/L)

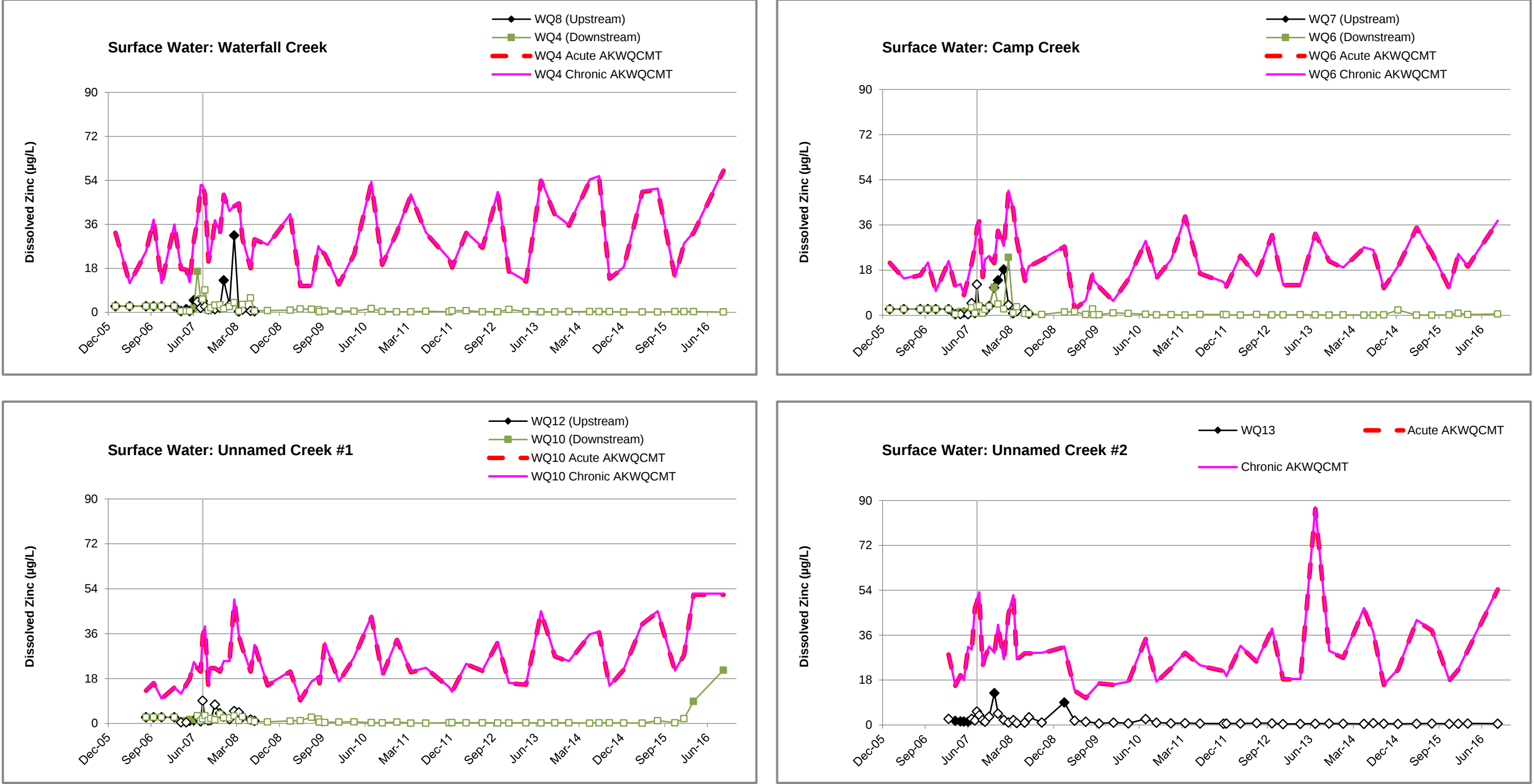
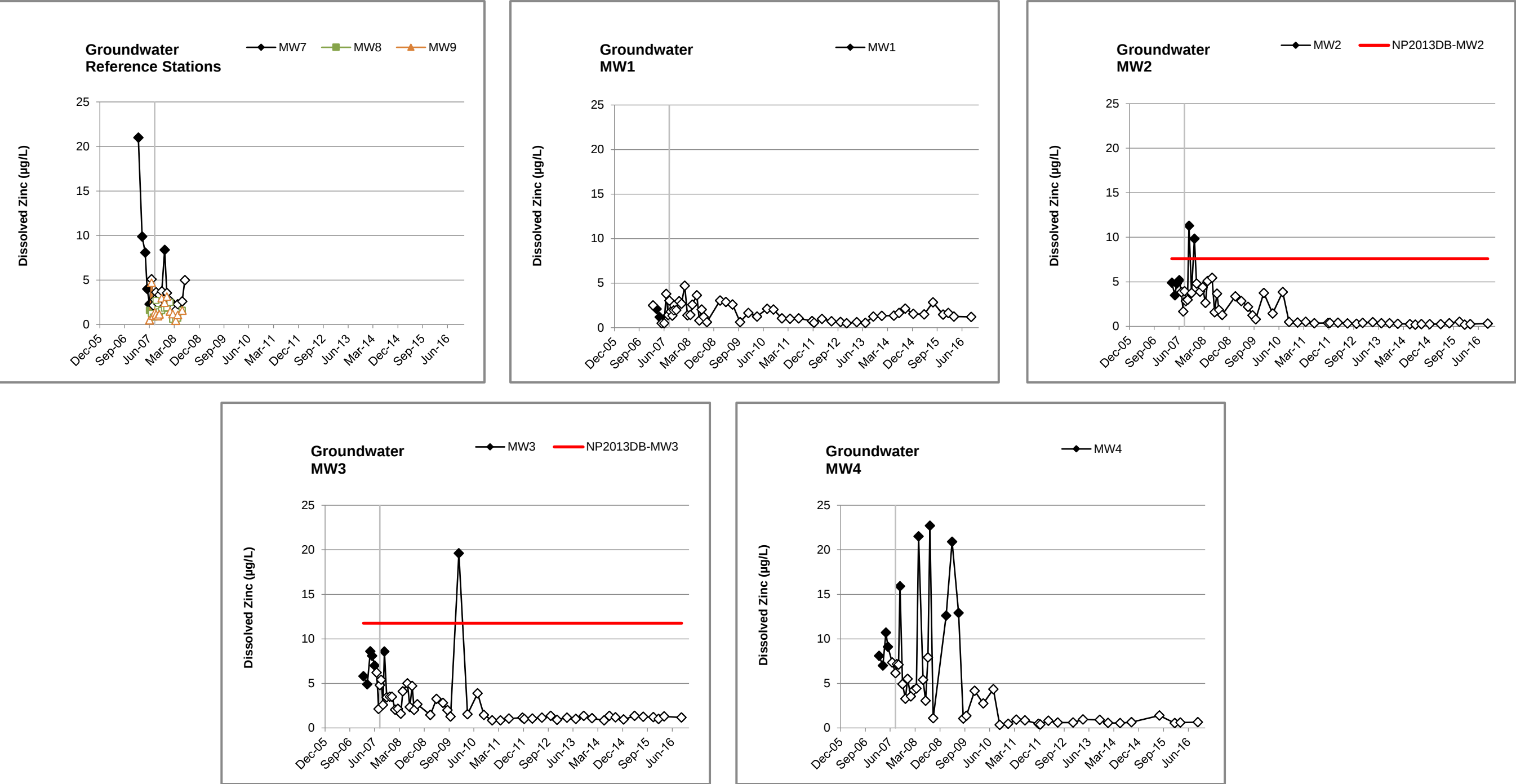


Figure 5-25a.
 Time Series Plots: Dissolved Zinc
 Permit Stations - Surface Water
 Niblack Exploration Project

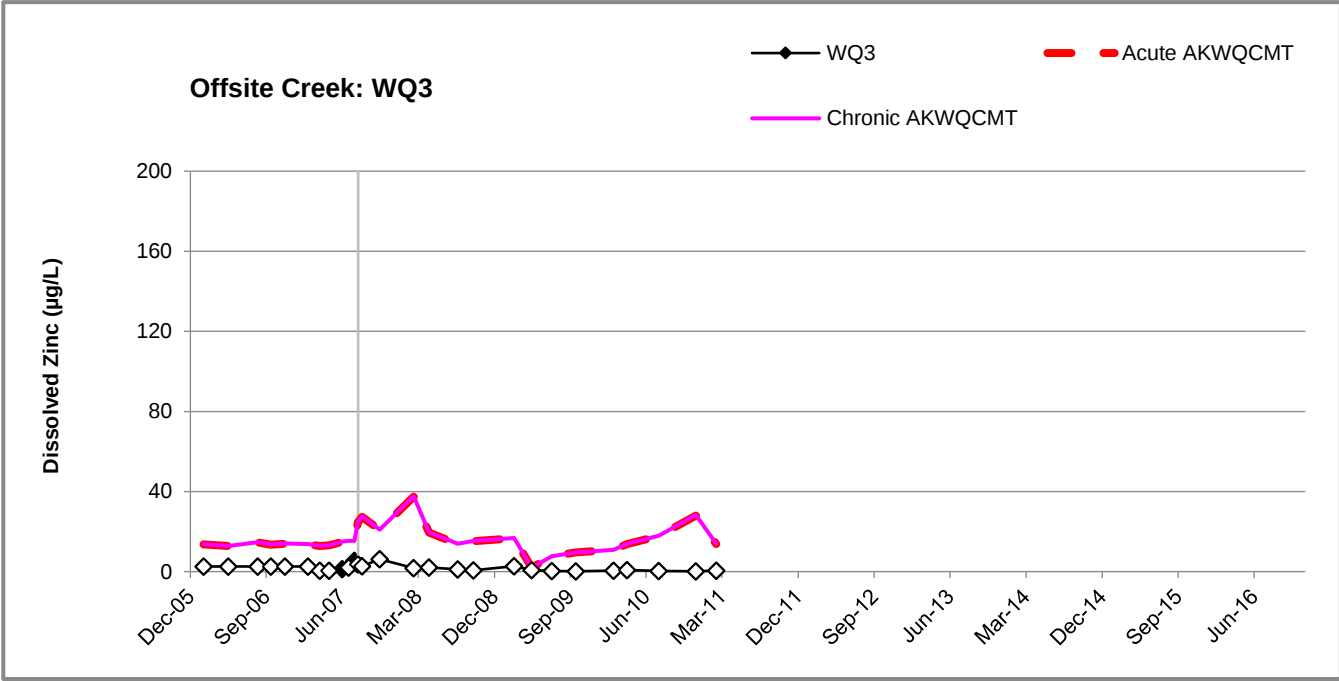
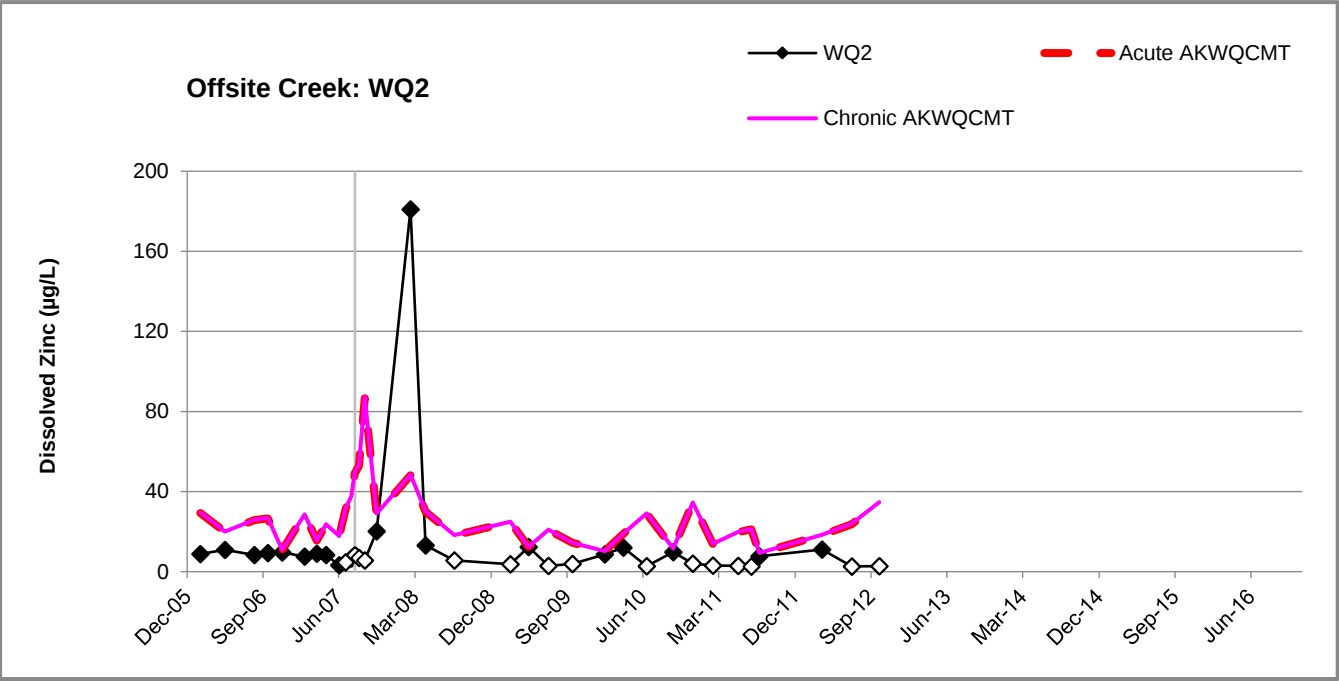
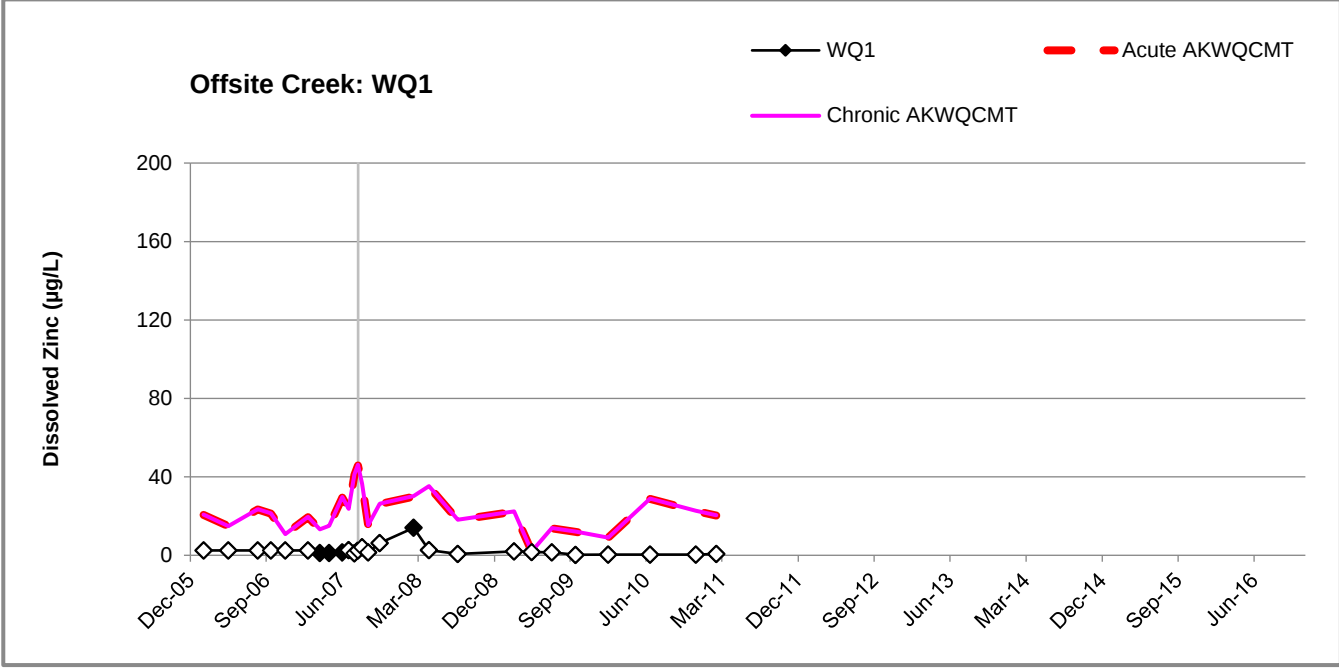
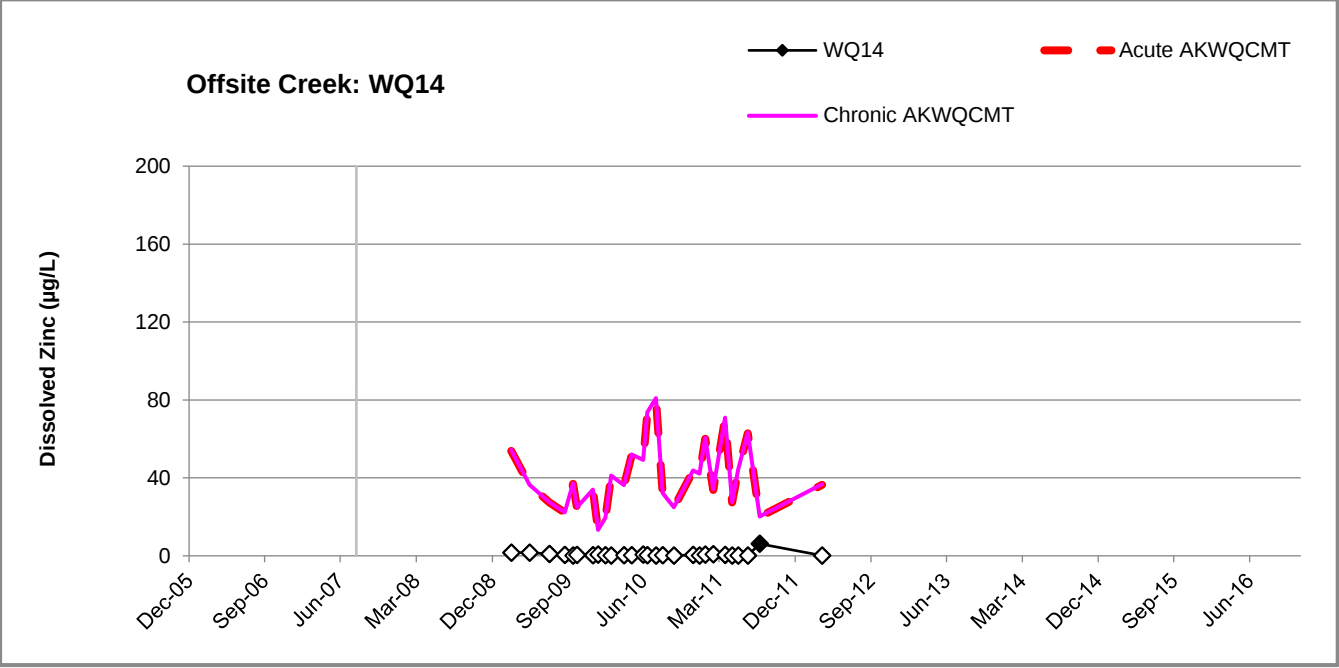
Permit Stations - Groundwater
Dissolved Zinc (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

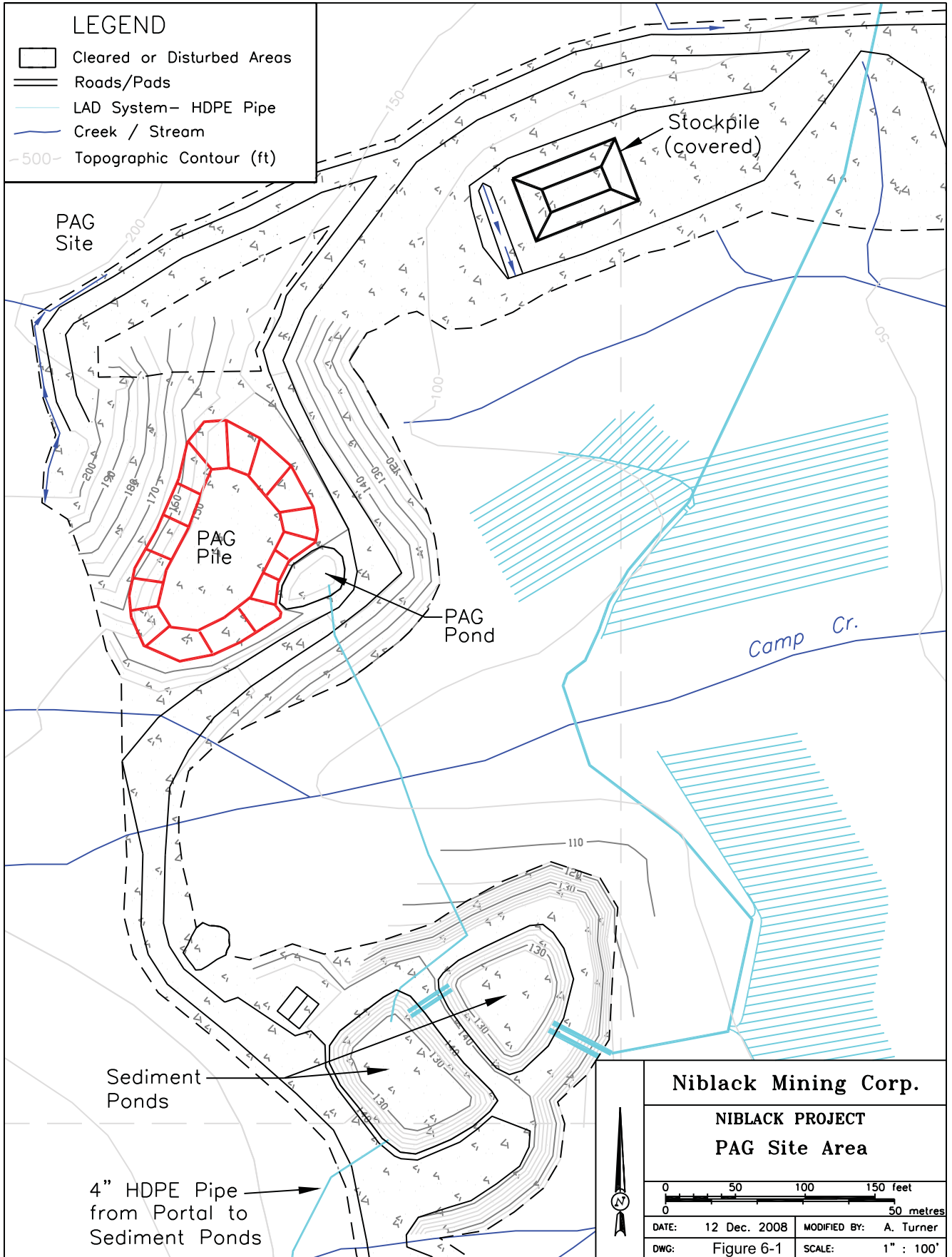
Figure 5-25b.
Time Series Plots: Dissolved Zinc
Permit Stations - Groundwater
Niblack Exploration Project

Offsite Surface Water Dissolved Zinc (µg/L)

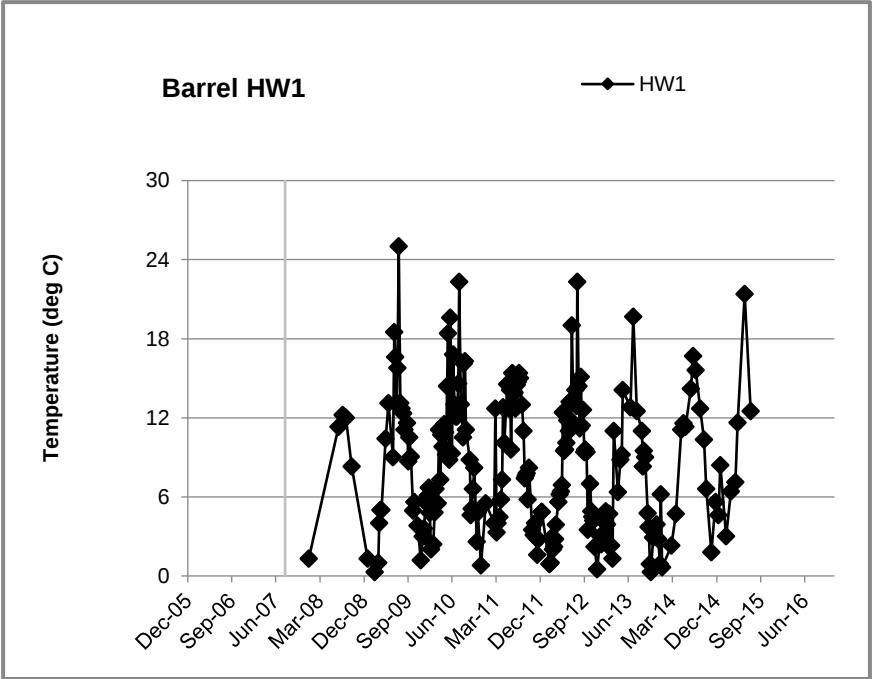
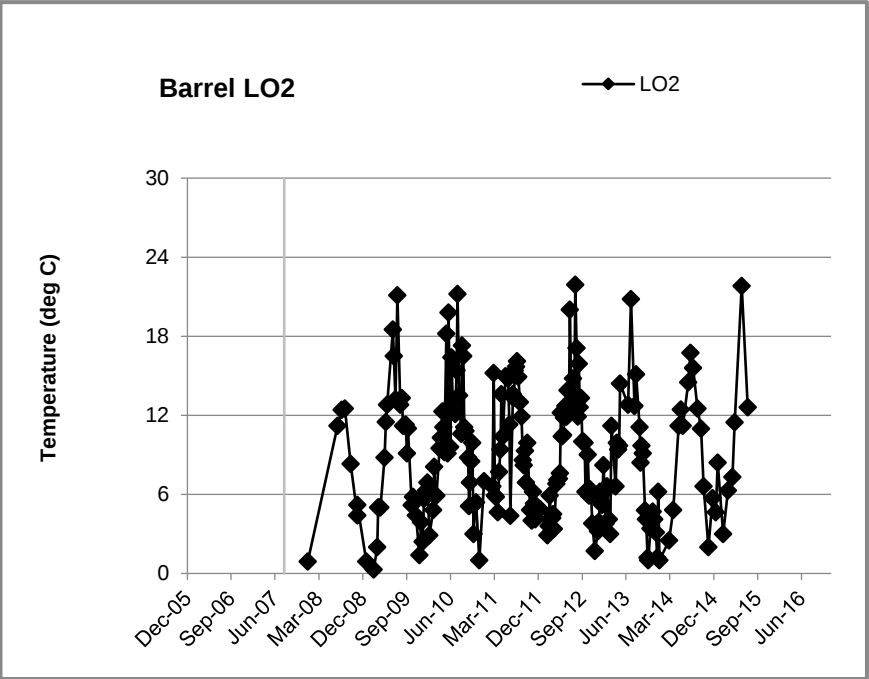
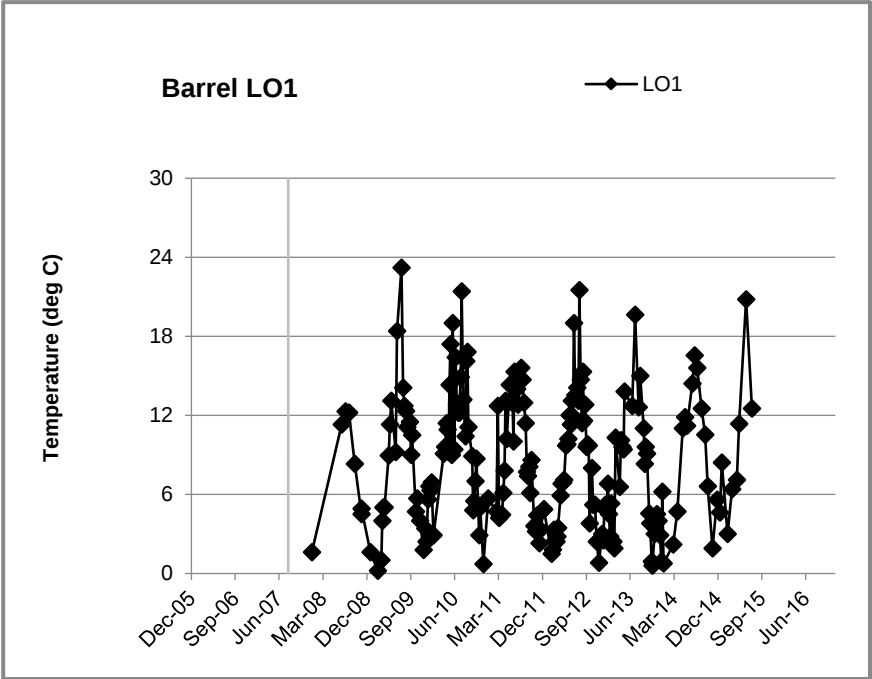
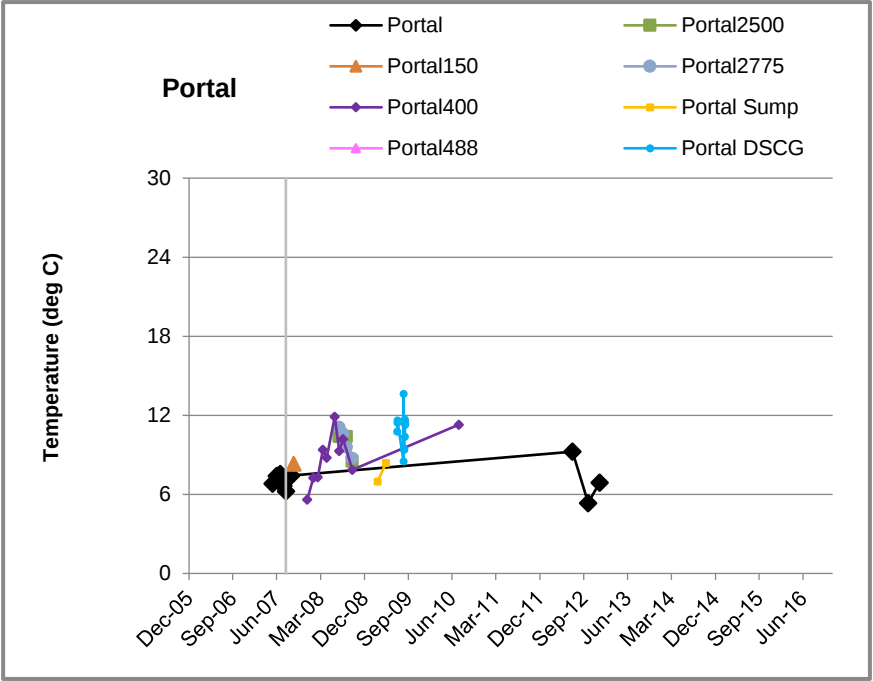
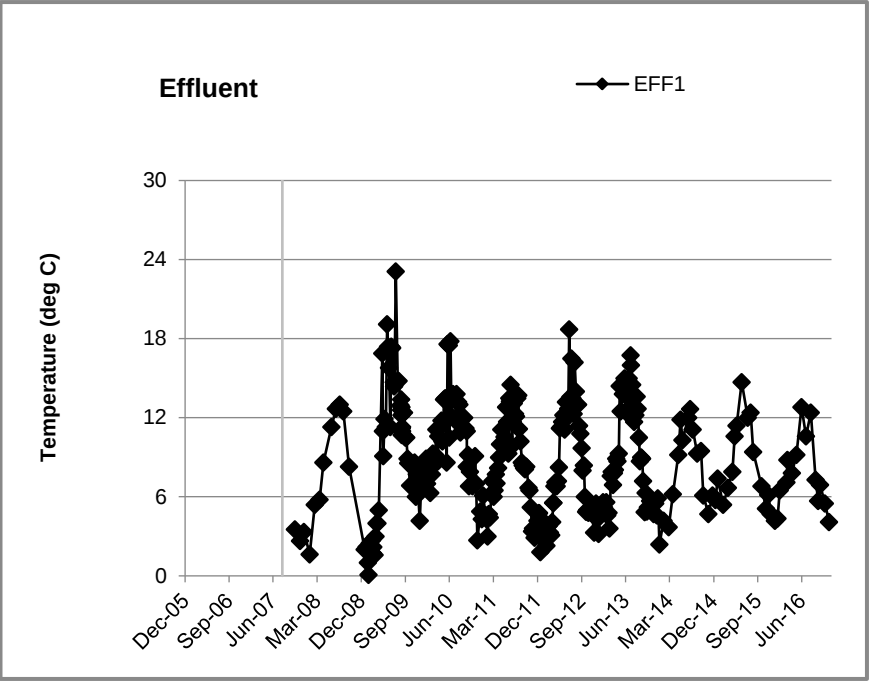
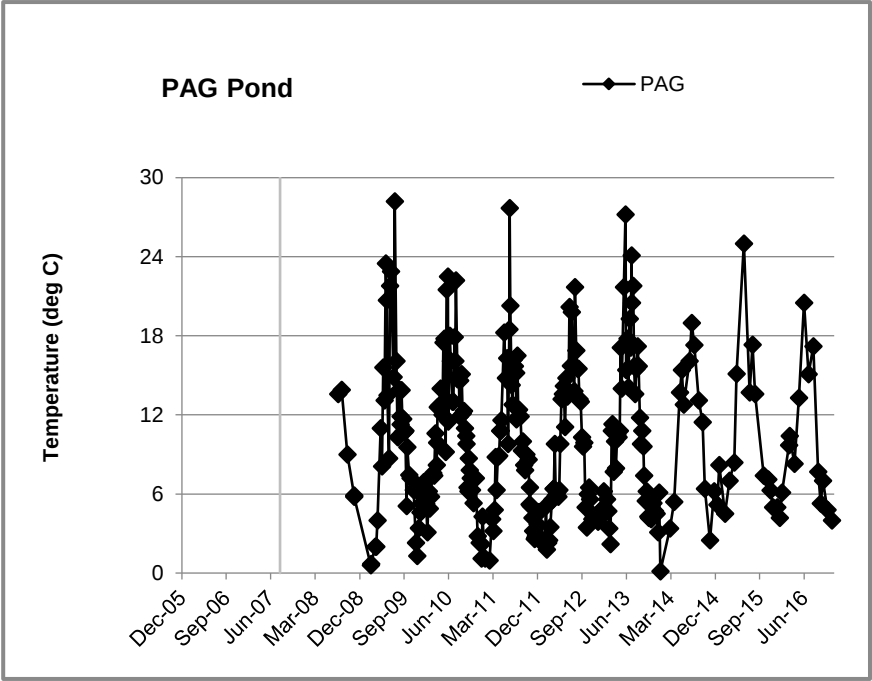


Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 5-25c.
Time Series Plots: Dissolved Zinc
Offsite Surface Water
Niblack Exploration Project



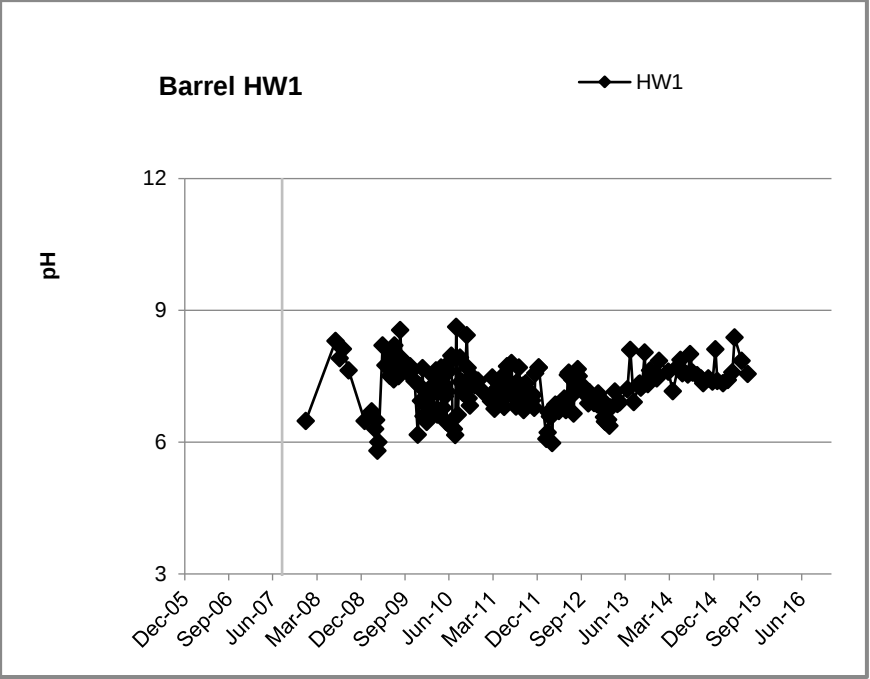
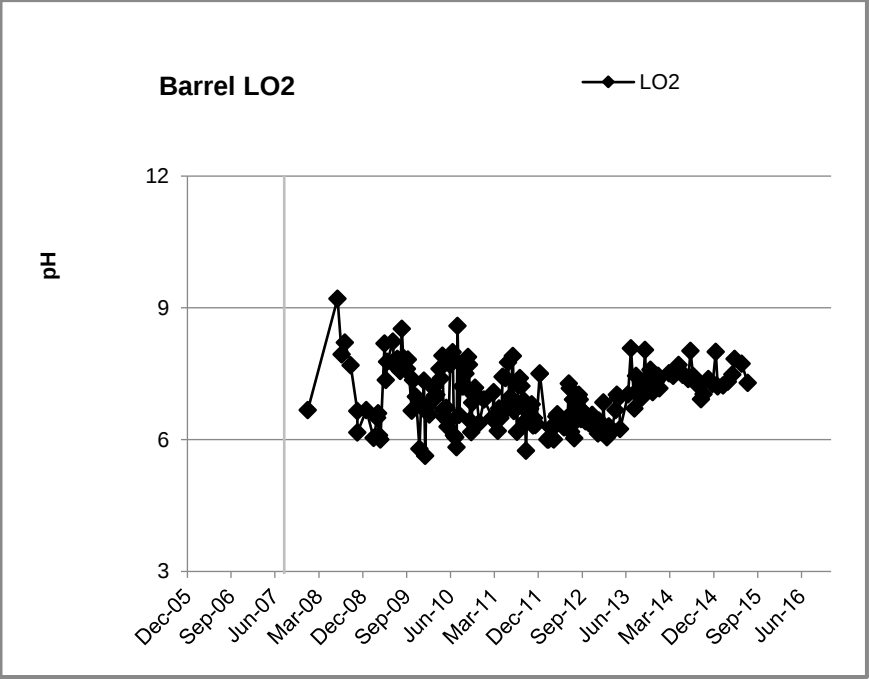
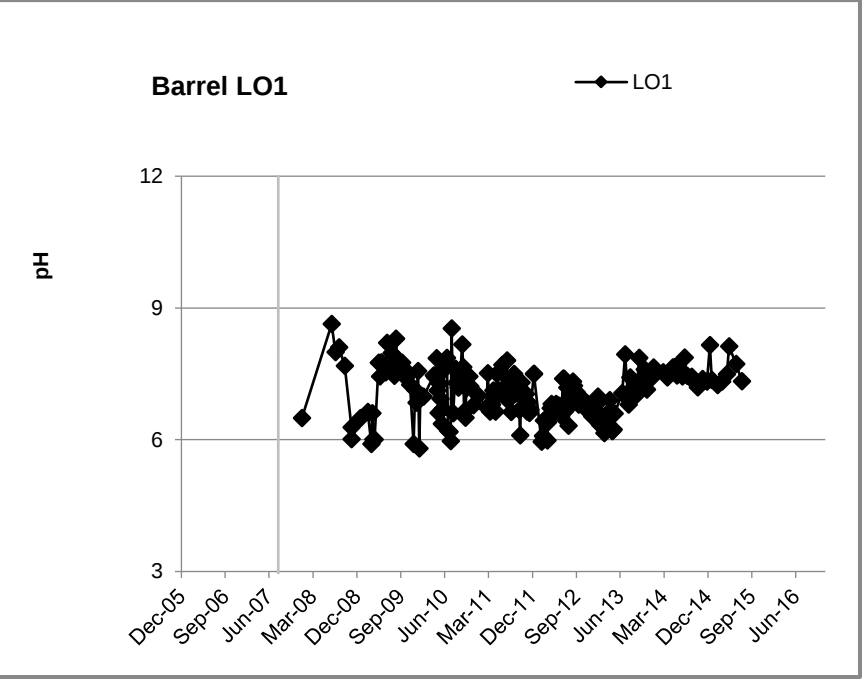
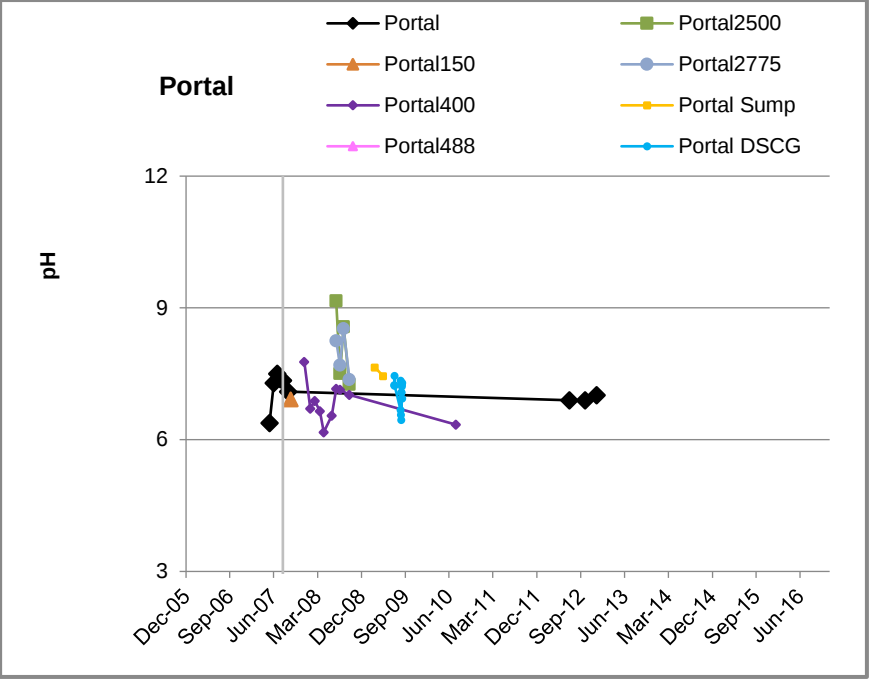
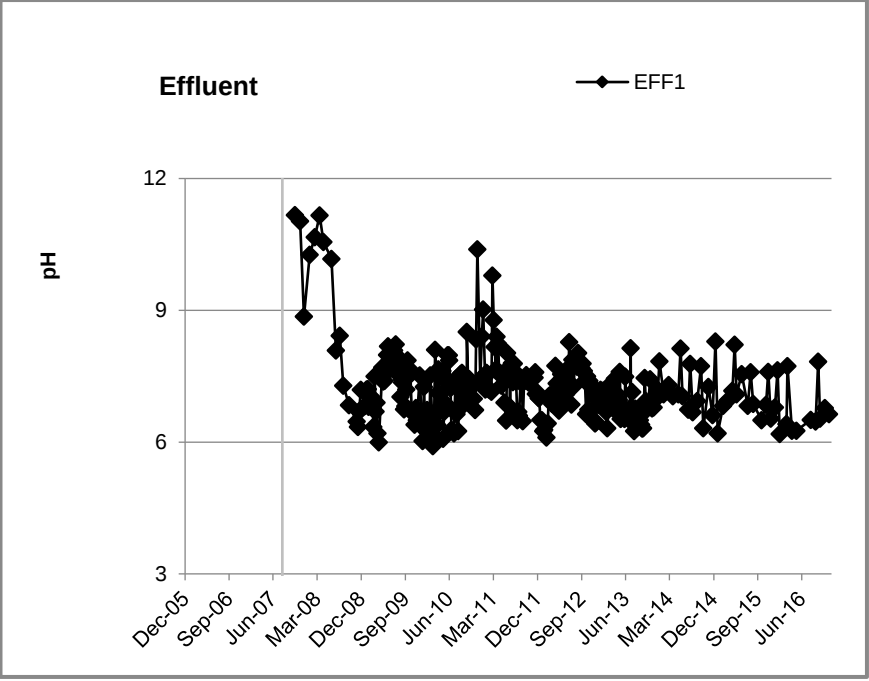
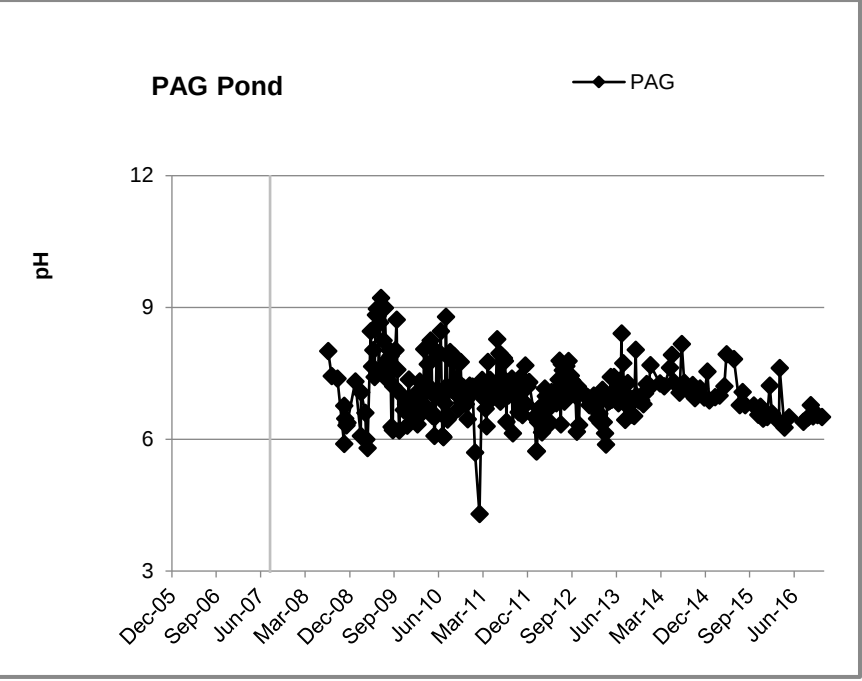
Effluent, PAG Pond, and Barrels
Temperature (deg C)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-2.
Time Series Plots: Temperature
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

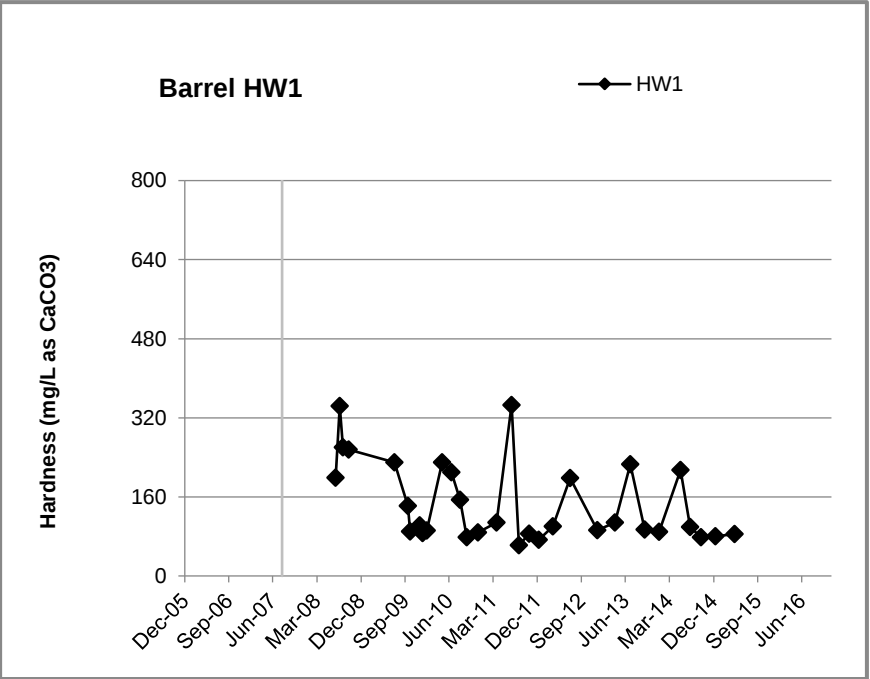
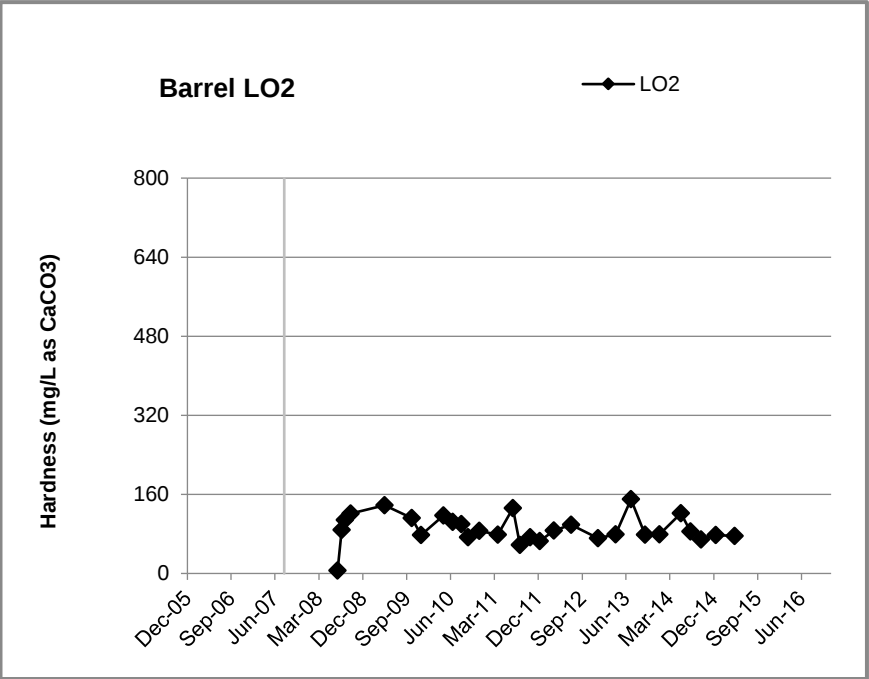
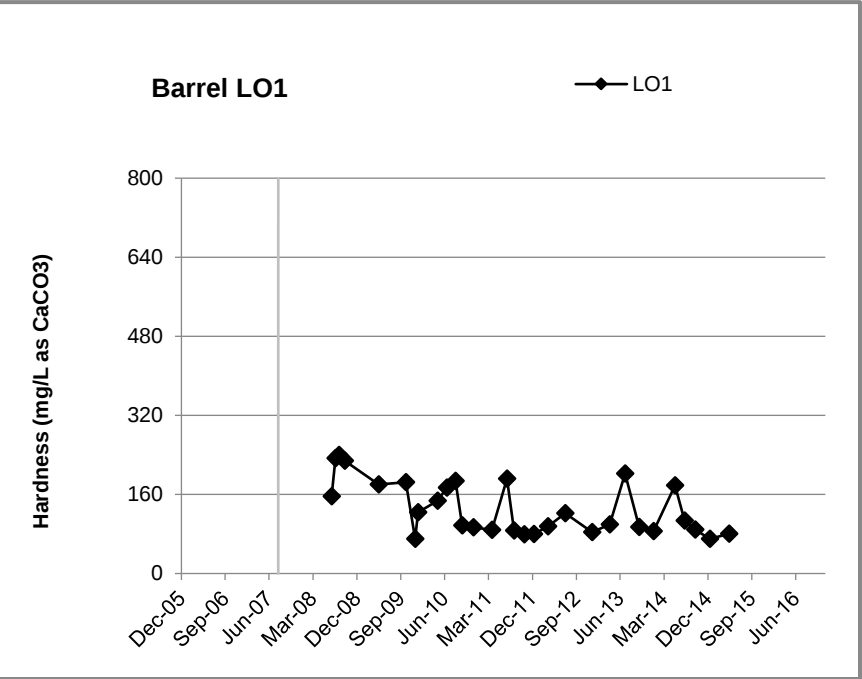
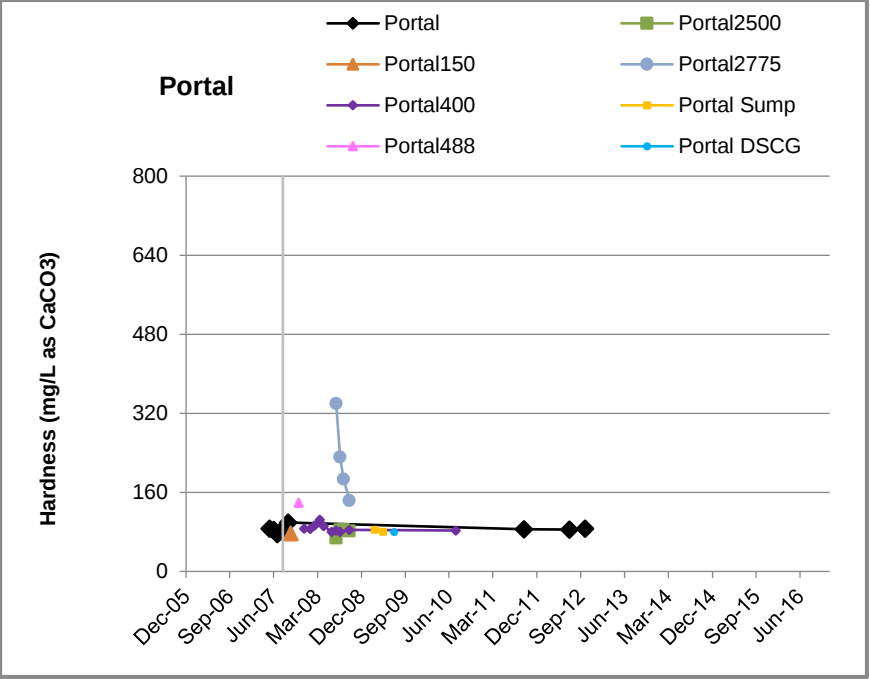
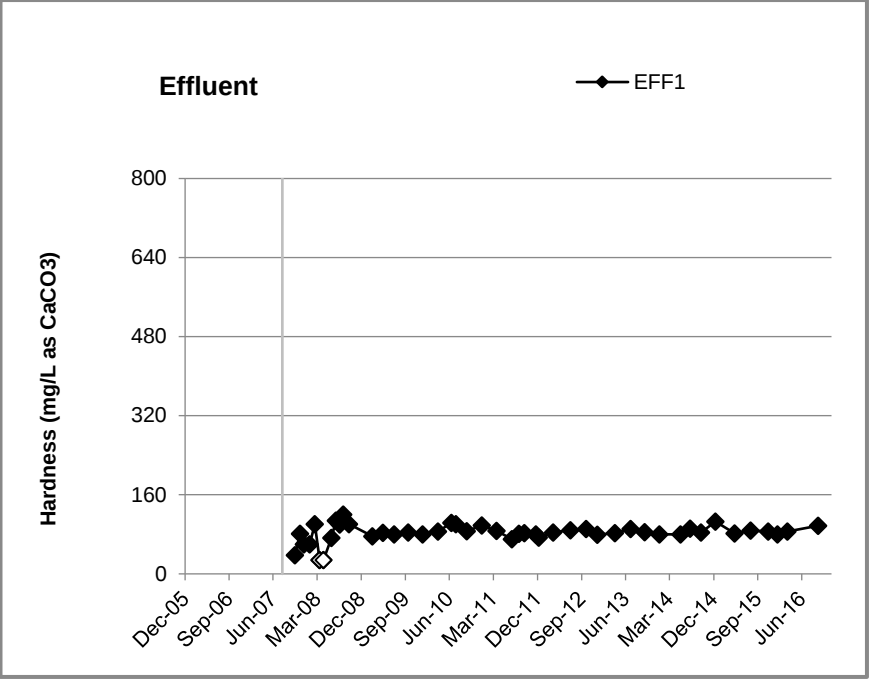
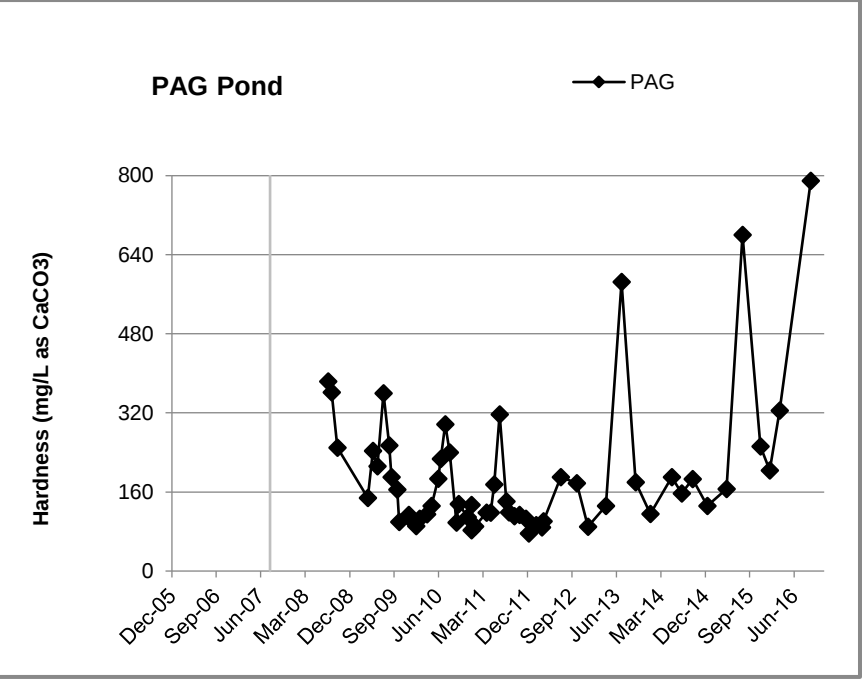
Effluent, PAG Pond, and Barrels
pH



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-3.
Time Series Plots: pH
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

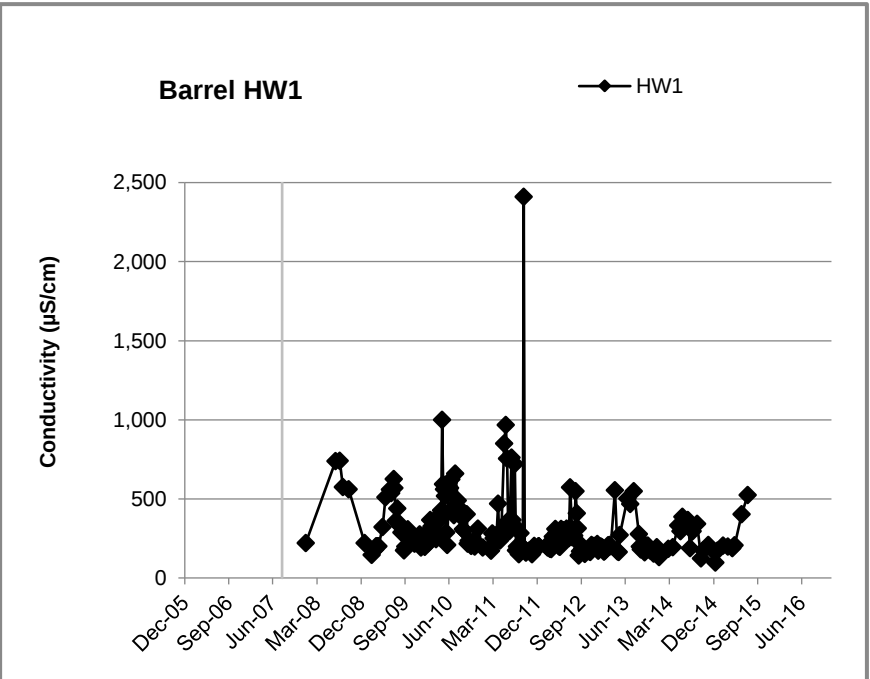
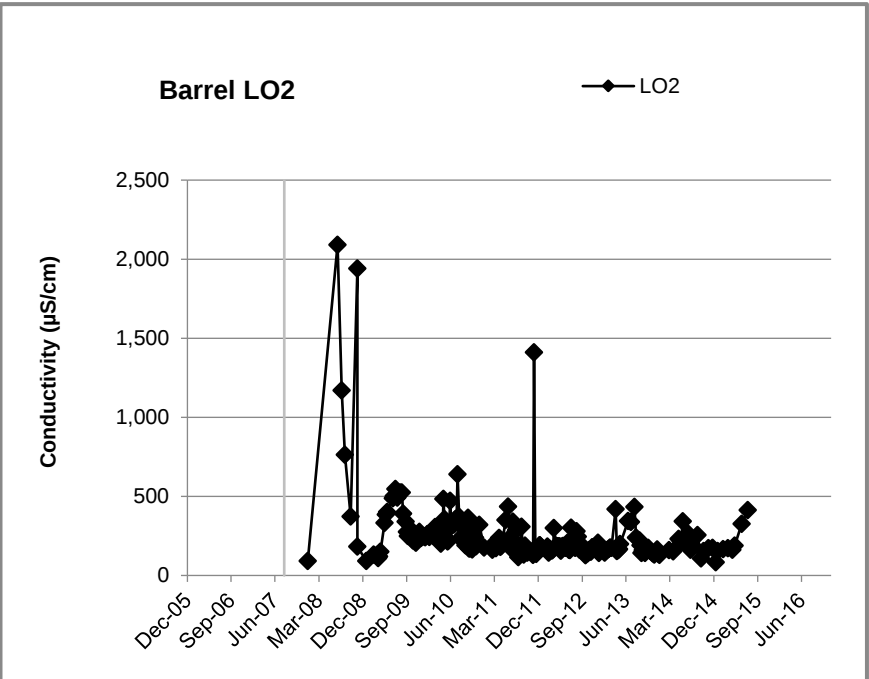
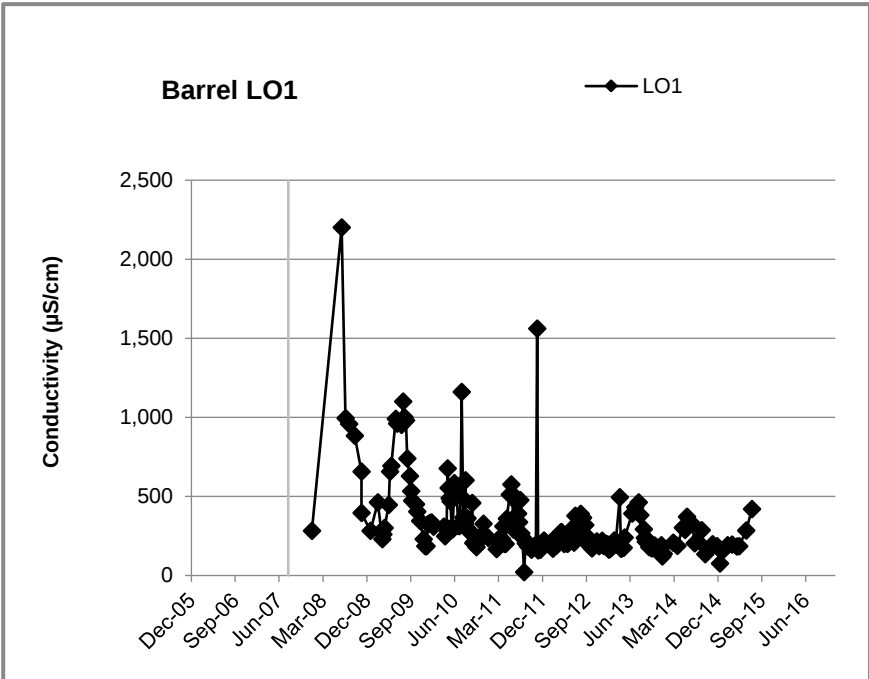
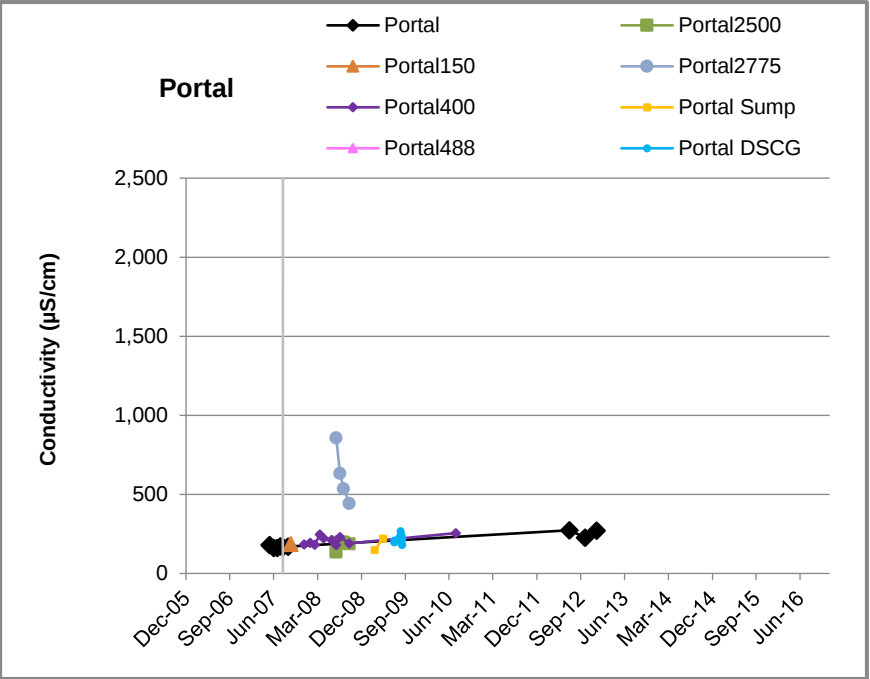
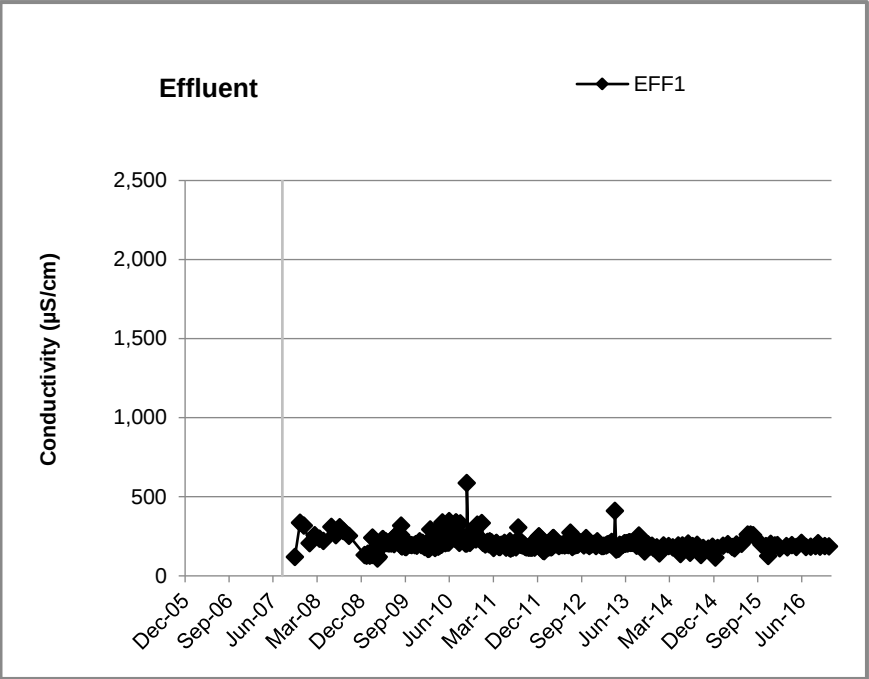
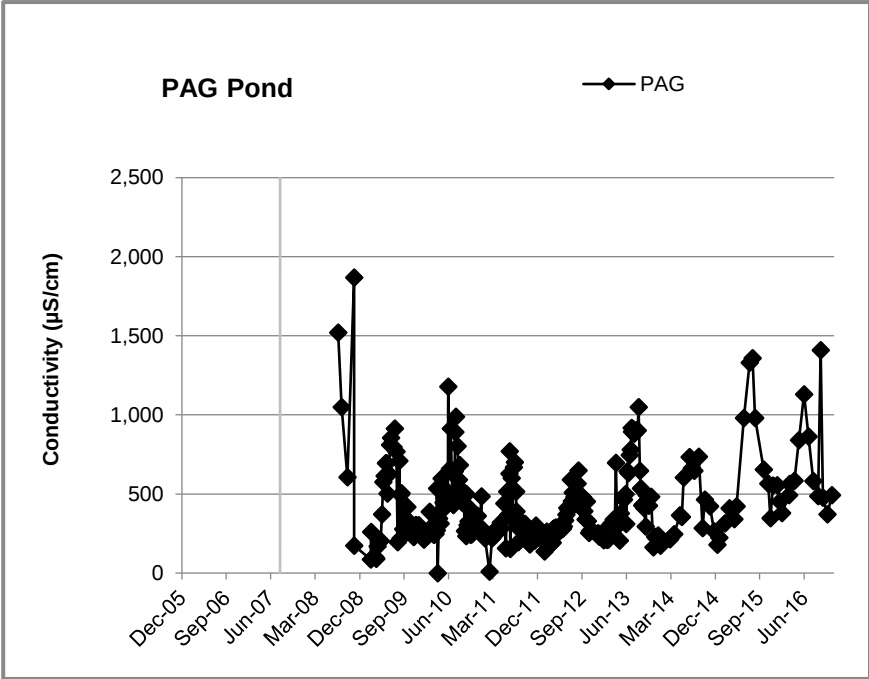
Effluent, PAG Pond, and Barrels
Hardness (mg/L as CaCO3)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-4.
Time Series Plots: Hardness
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

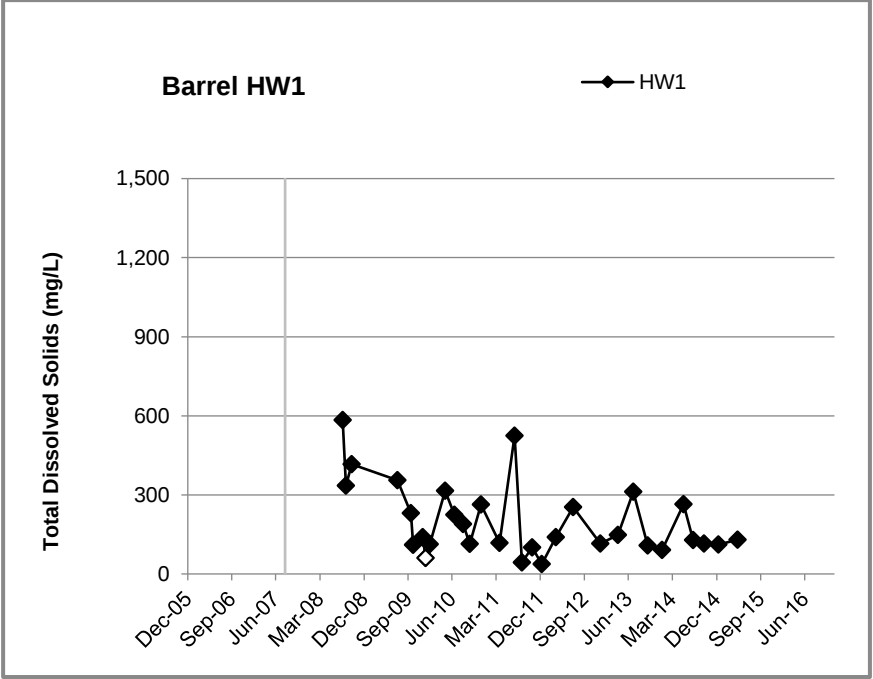
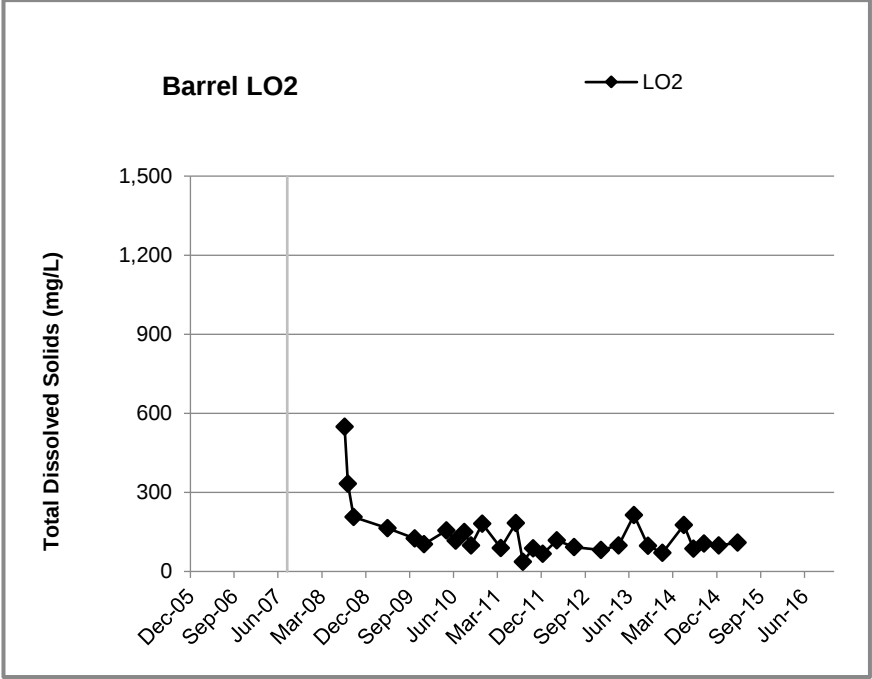
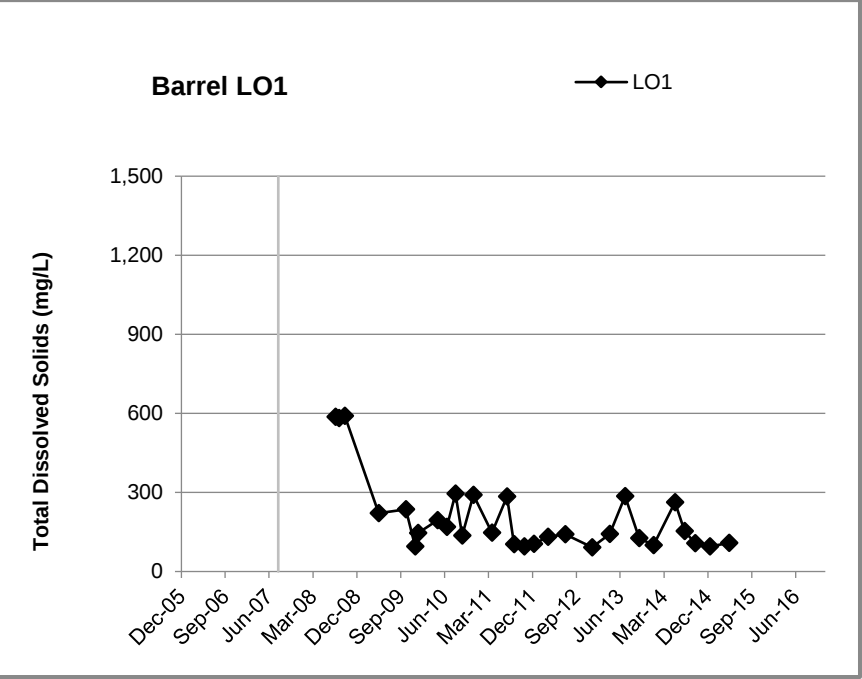
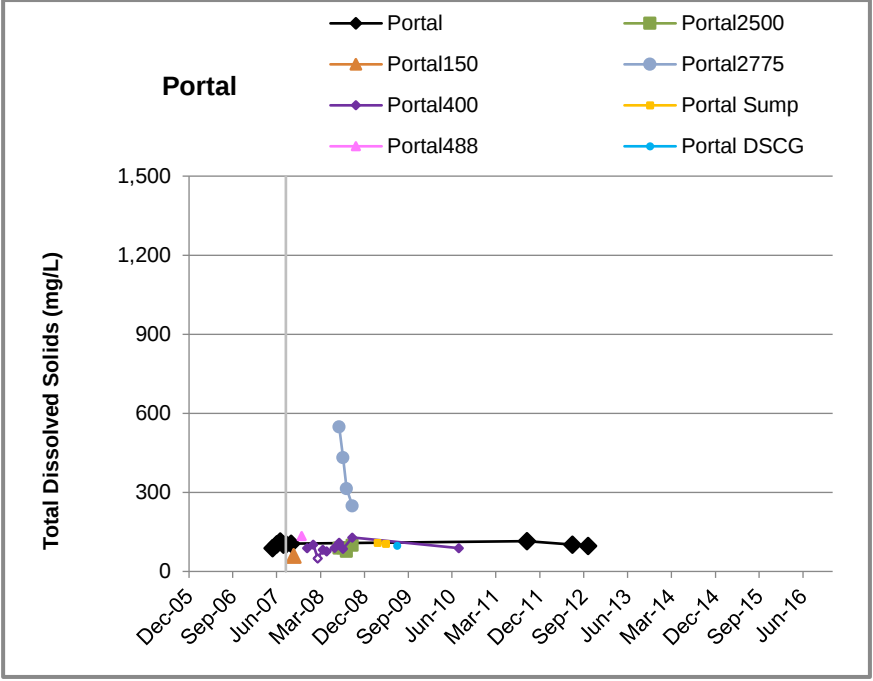
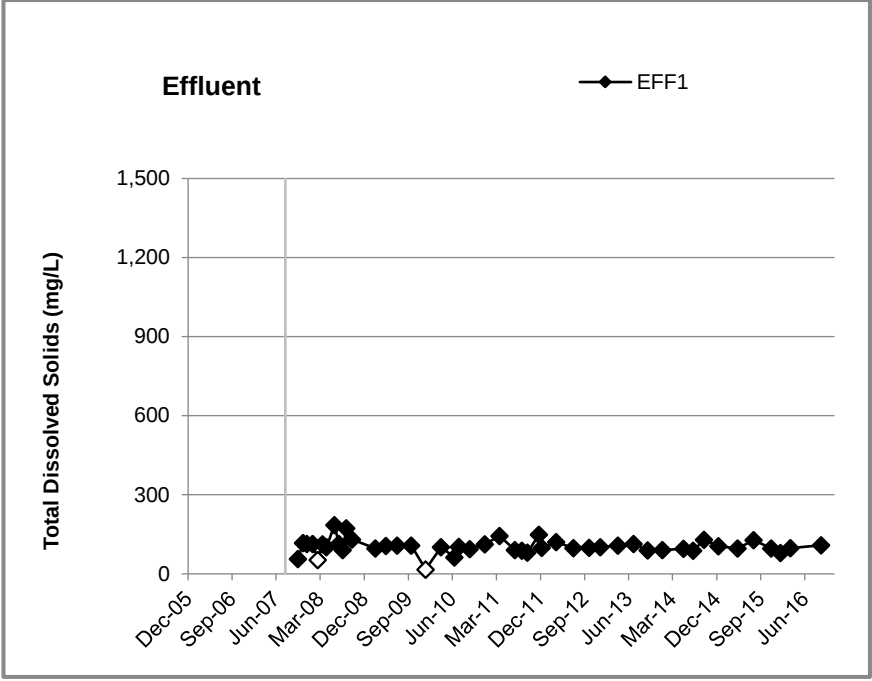
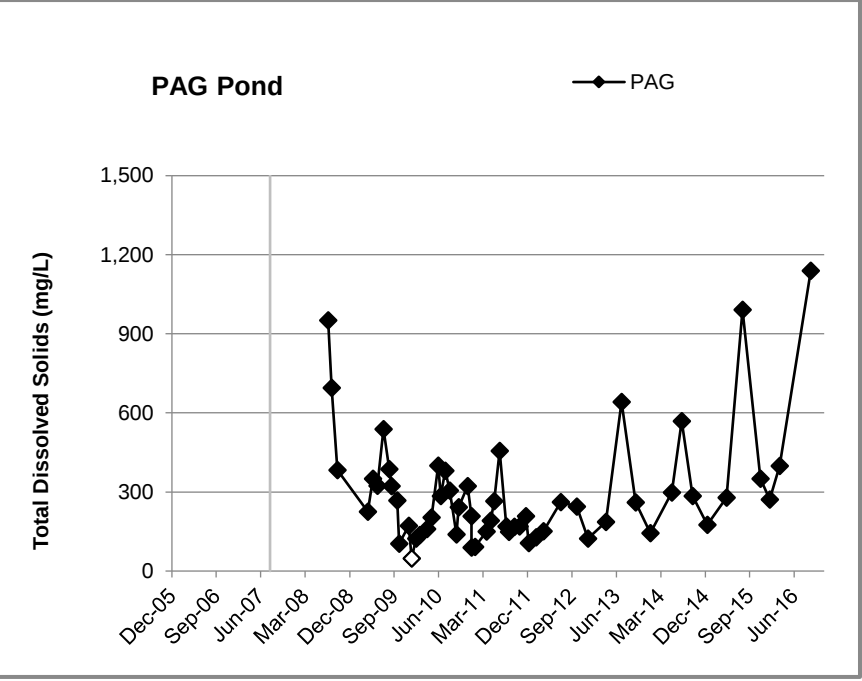
Effluent, PAG Pond, and Barrels Conductivity (µS/cm)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-5.
Time Series Plots: Conductivity
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

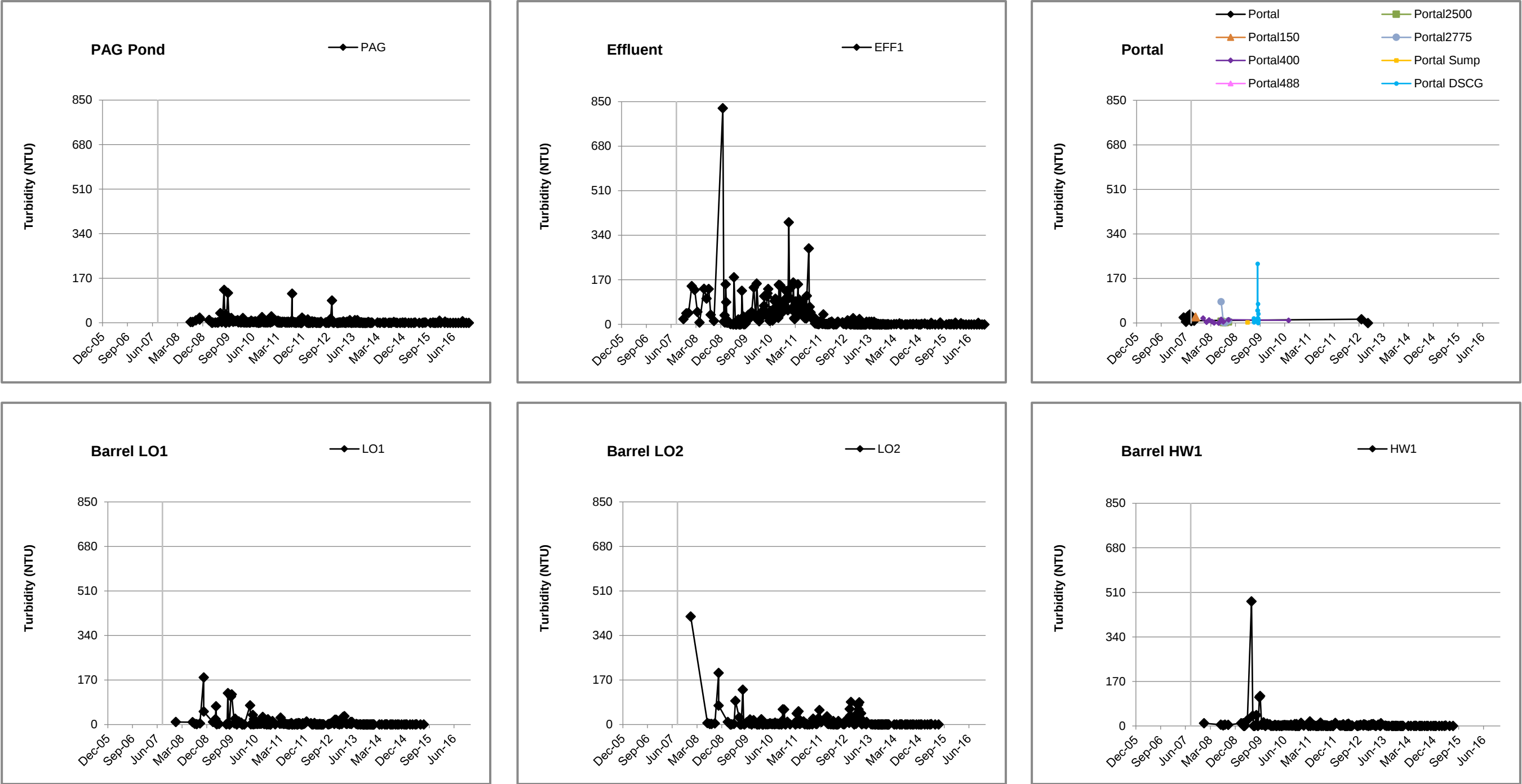
**Effluent, PAG Pond, and Barrels
Total Dissolved Solids (mg/L)**



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-6.
Time Series Plots: Total Dissolved Solids
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

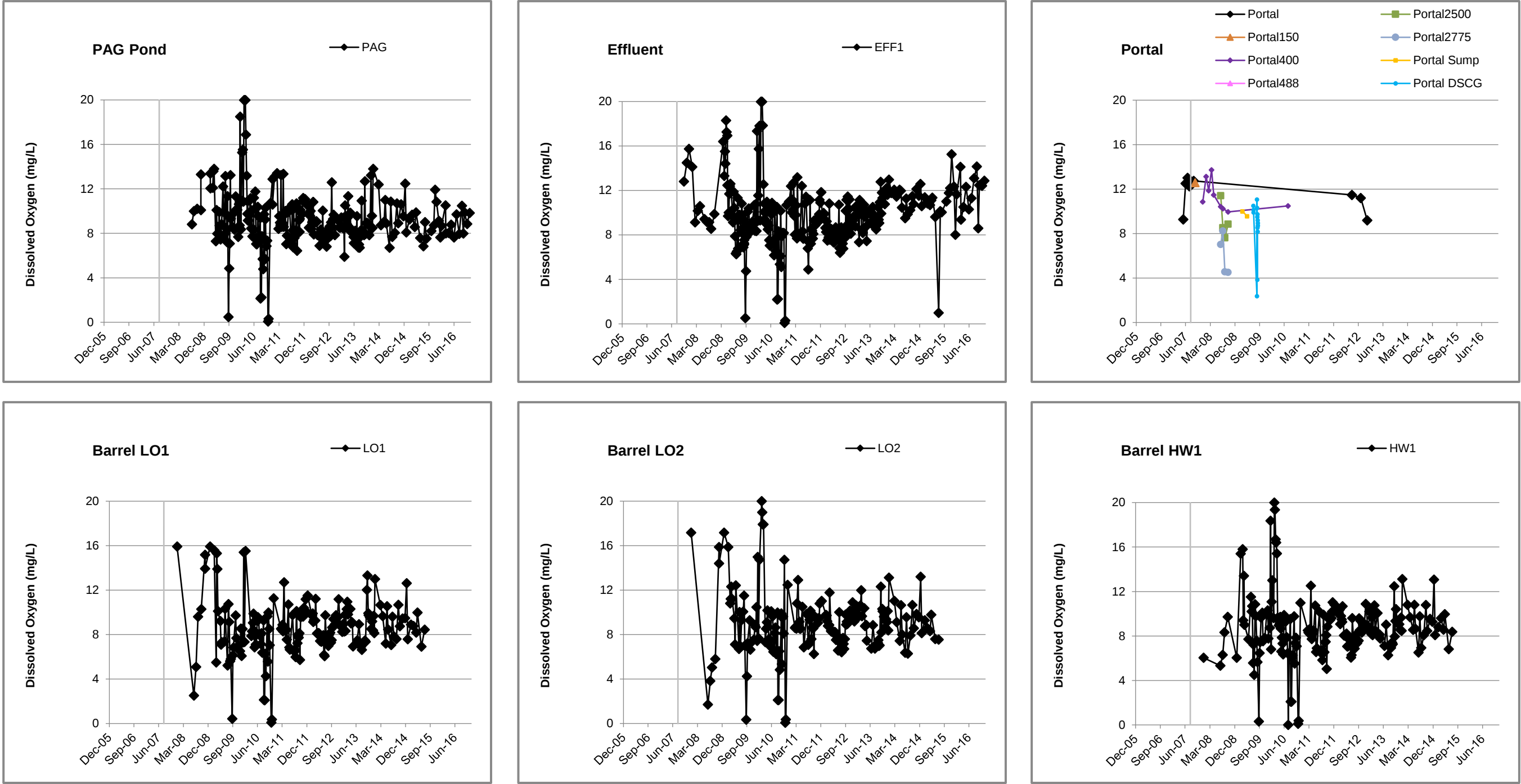
Effluent, PAG Pond, and Barrels Turbidity (NTU)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-7.
Time Series Plots: Turbidity
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

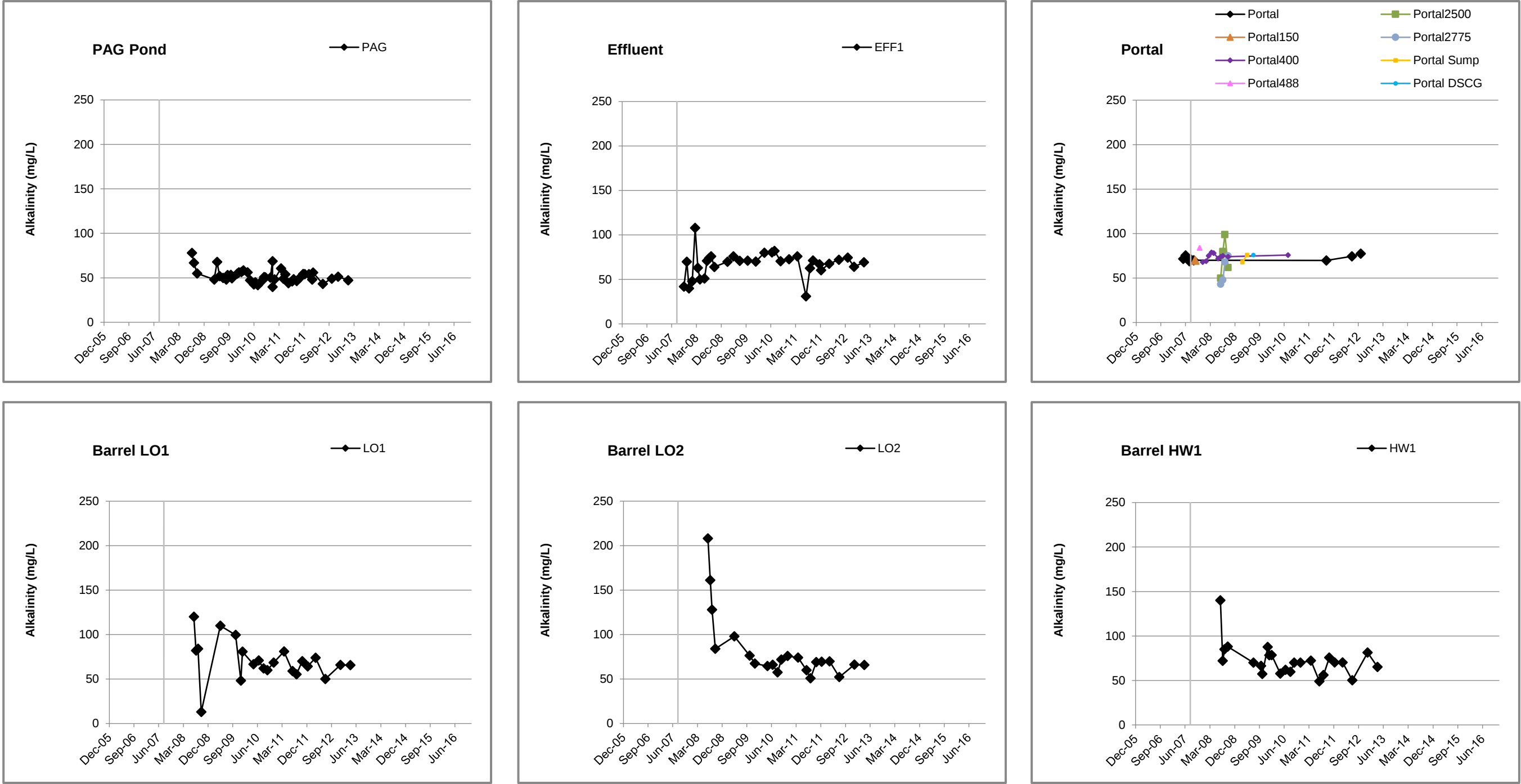
Effluent, PAG Pond, and Barrels Dissolved Oxygen (mg/L)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-8.
Time Series Plots: Dissolved Oxygen
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

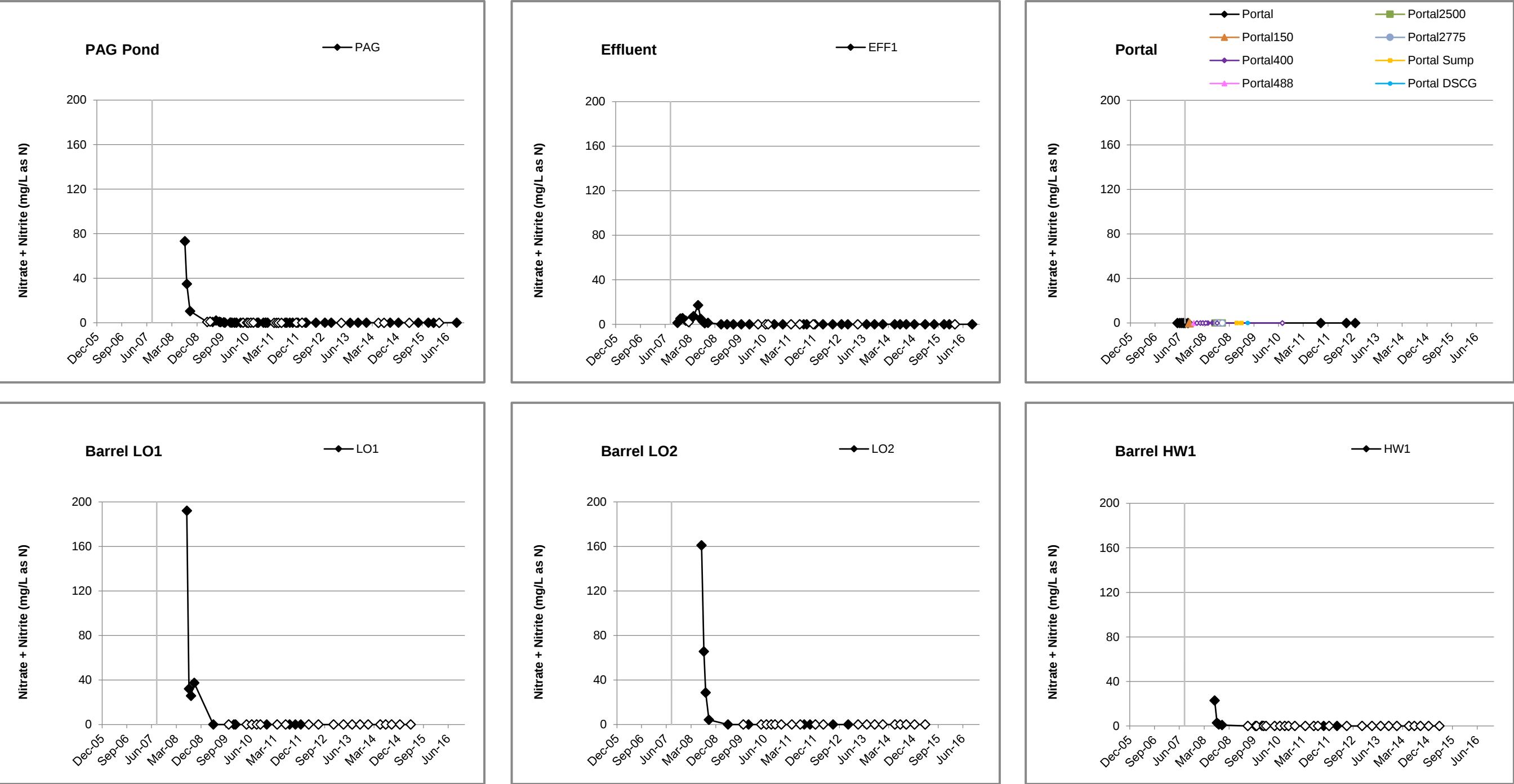
Effluent, PAG Pond, and Barrels Alkalinity (mg/L)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-9.
Time Series Plots: Alkalinity
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

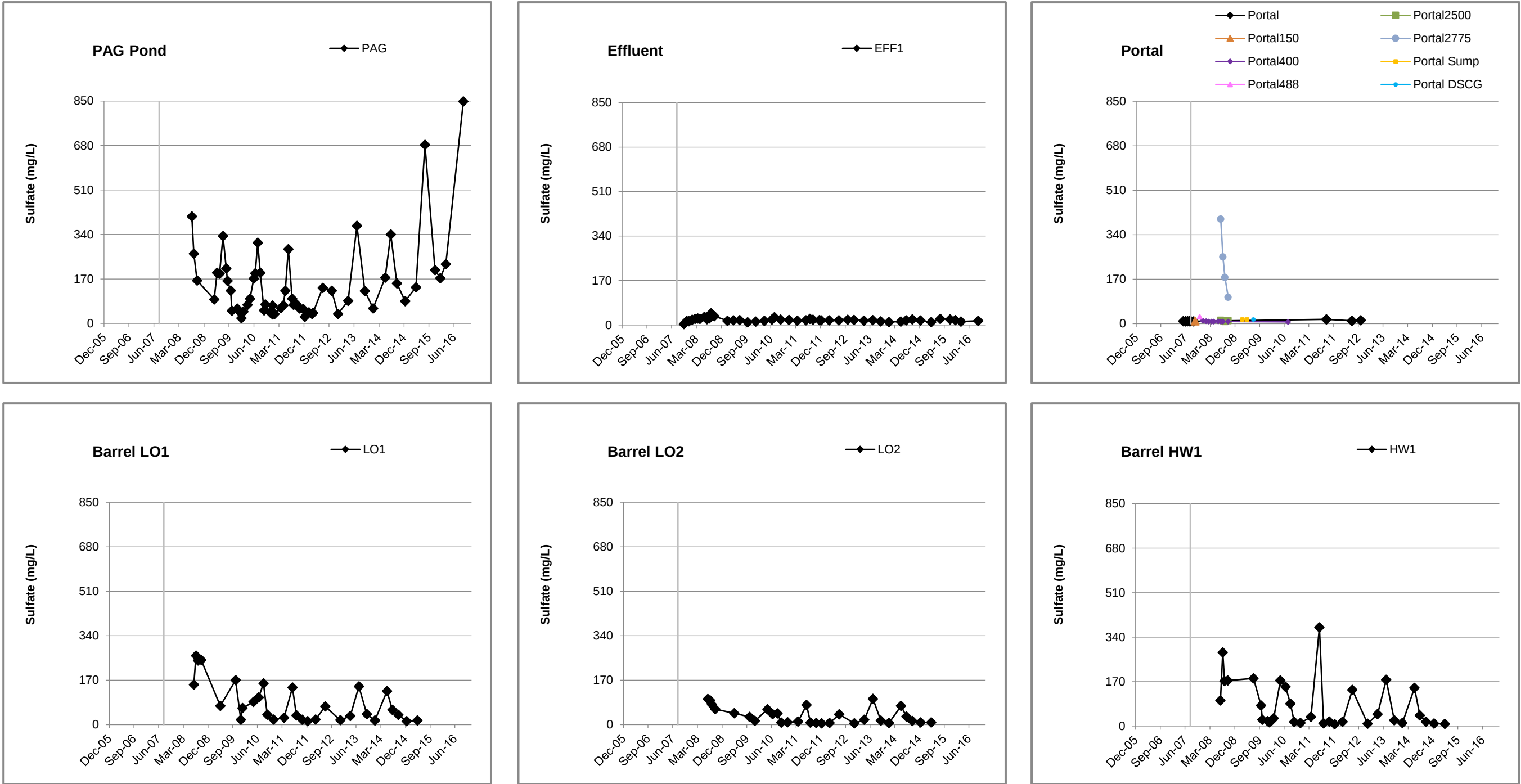
Effluent, PAG Pond, and Barrels
Nitrate + Nitrite (mg/L as N)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-10.
Time Series Plots: Nitrate + Nitrite
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

Effluent, PAG Pond, and Barrels Sulfate (mg/L)



Notes:
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-11.
Time Series Plots: Sulfate
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

Effluent, PAG Pond, and Barrels Total Aluminum (µg/L)

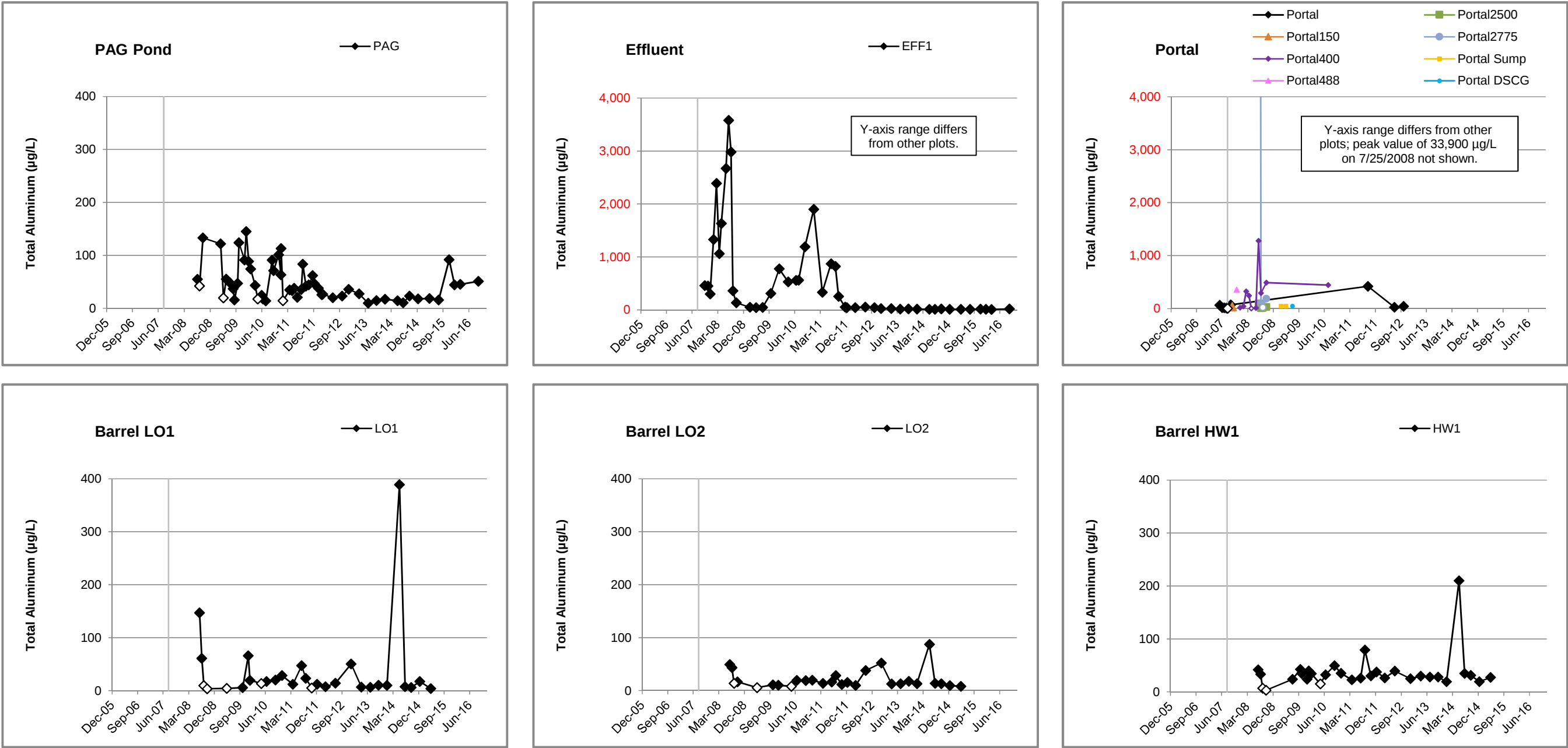
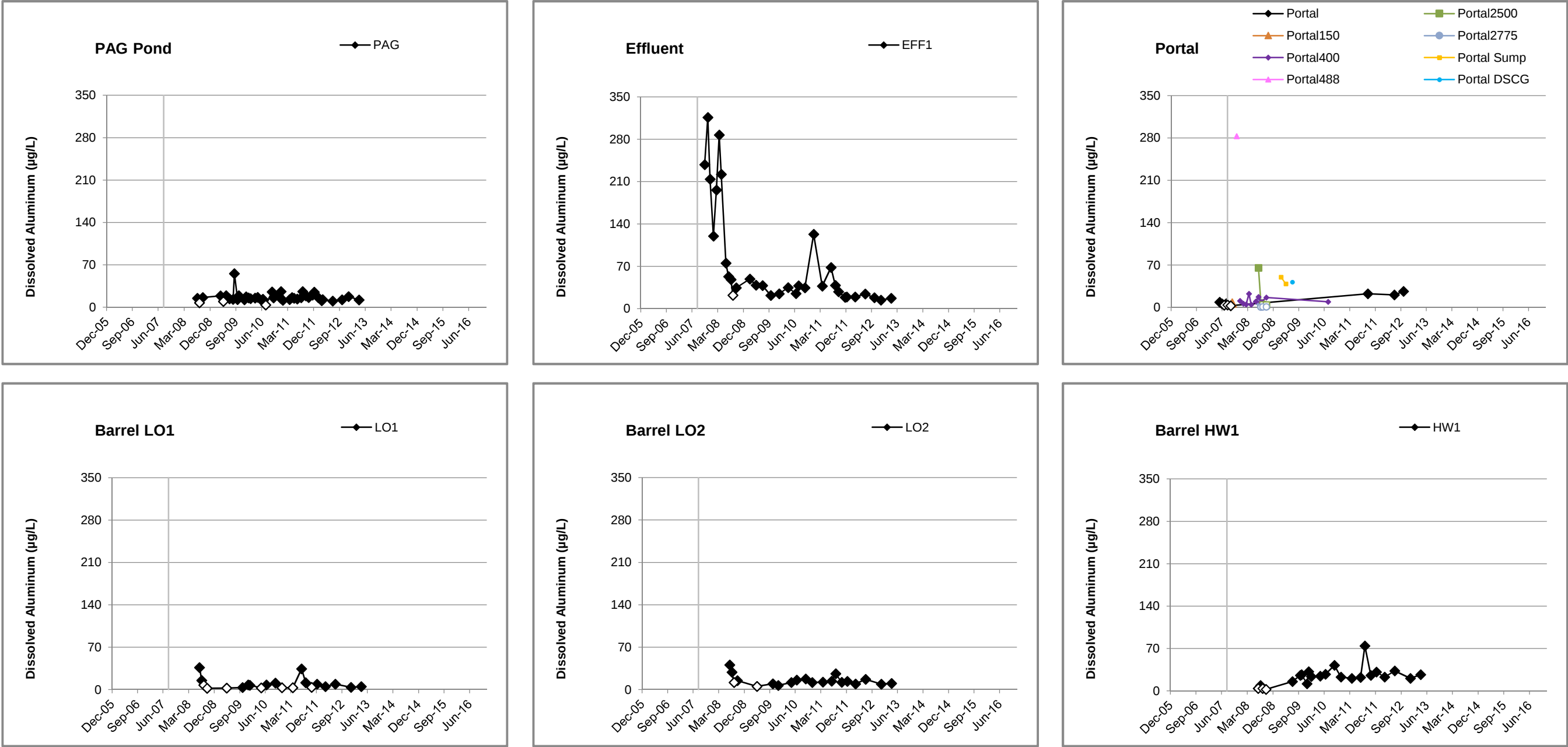


Figure 6-12.
Time Series Plots: Total Aluminum
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

Effluent, PAG Pond, and Barrels Dissolved Aluminum (µg/L)



Notes:
 Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
 The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-13.
 Time Series Plots: Dissolved Aluminum
 Effluent, PAG Pond, and Barrels
 Niblack Exploration Project

Effluent, PAG Pond, and Barrels
Total Arsenic (µg/L)

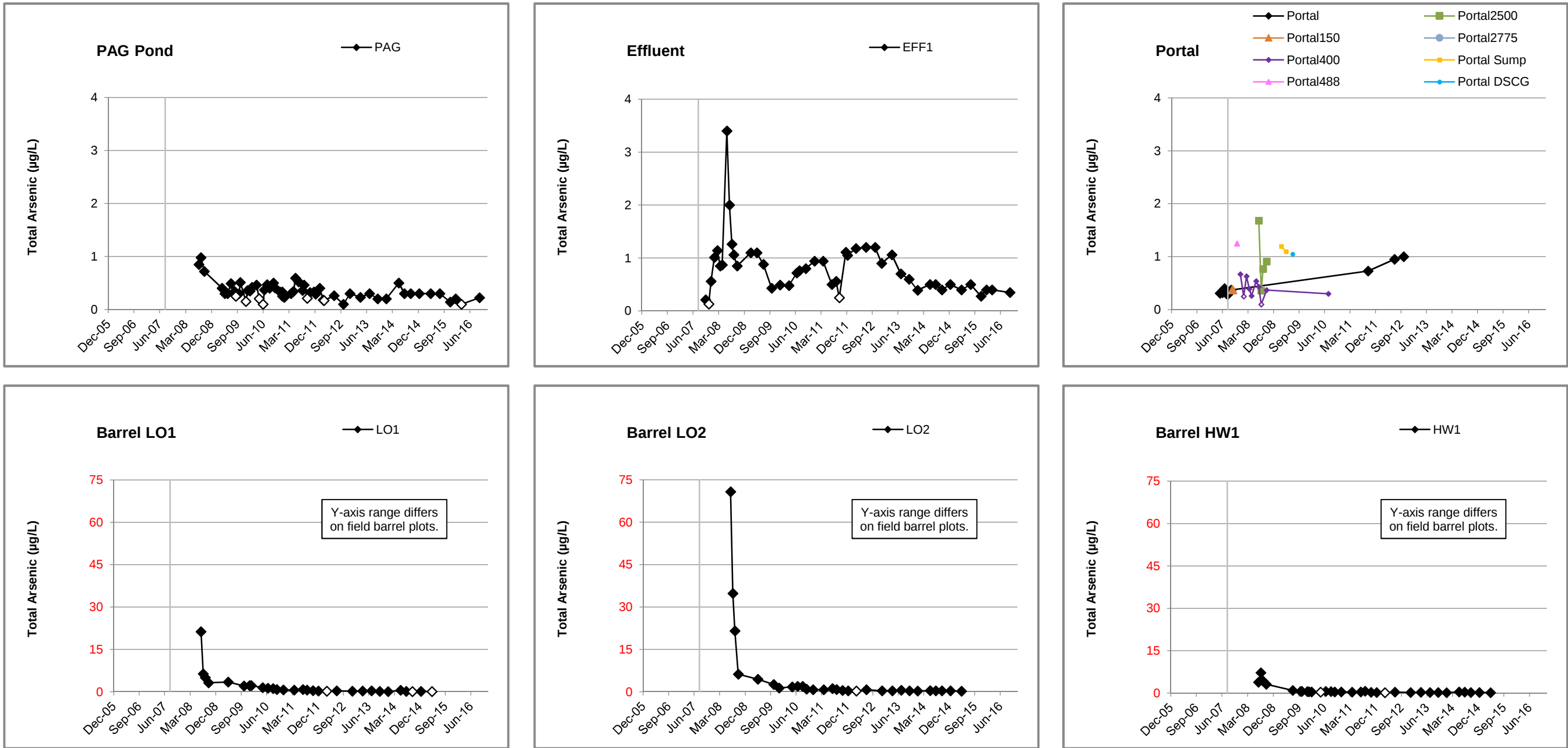
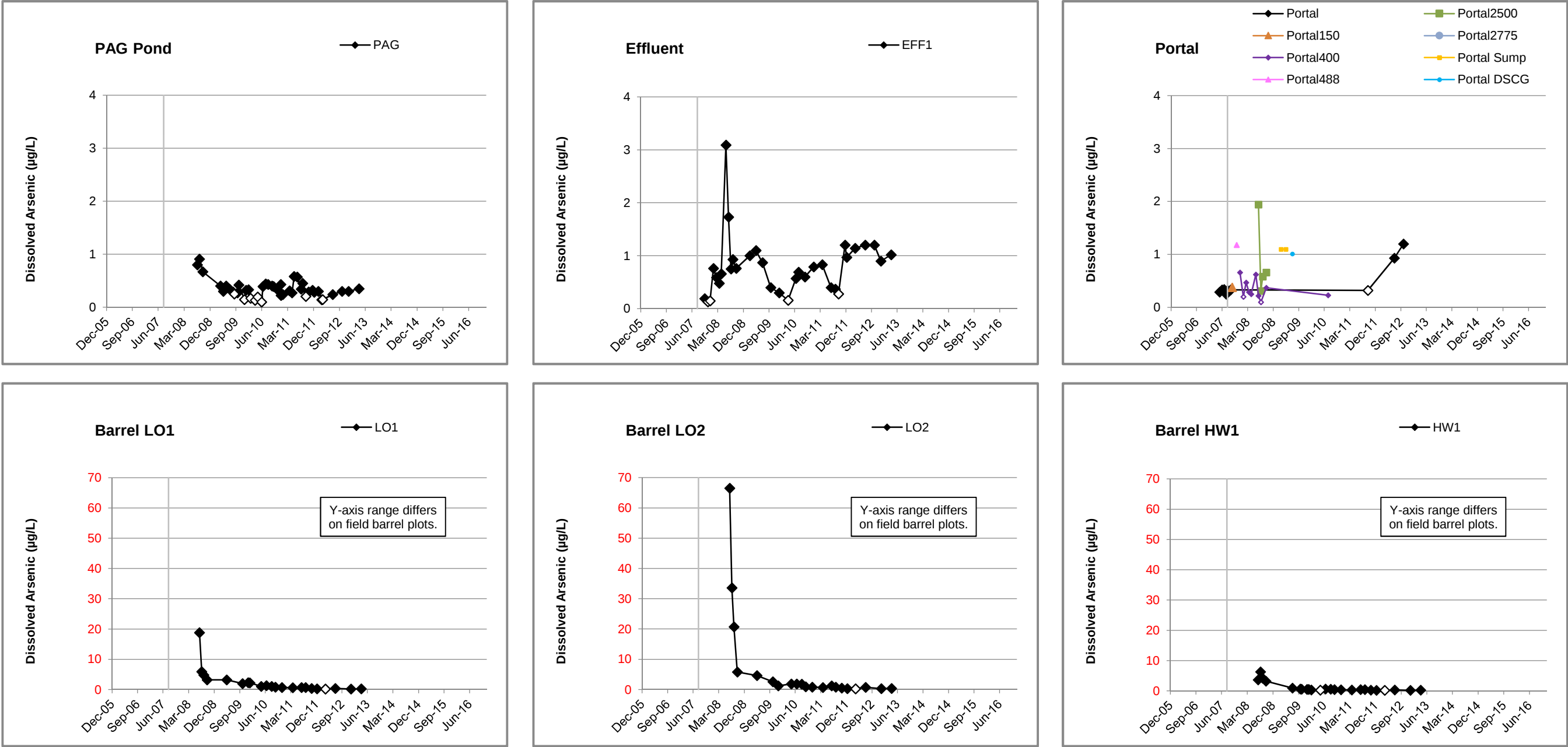


Figure 6-14.
Time Series Plots: Total Arsenic
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

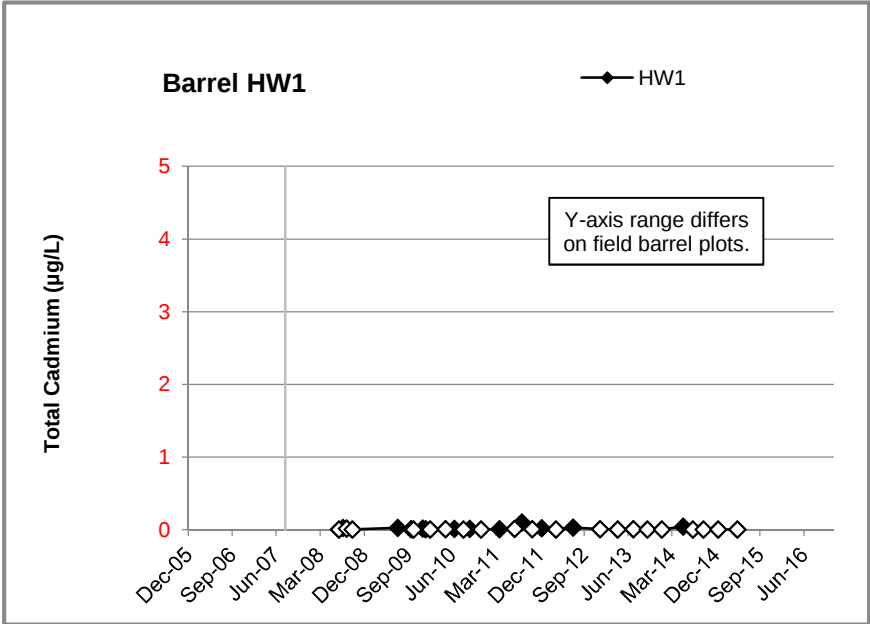
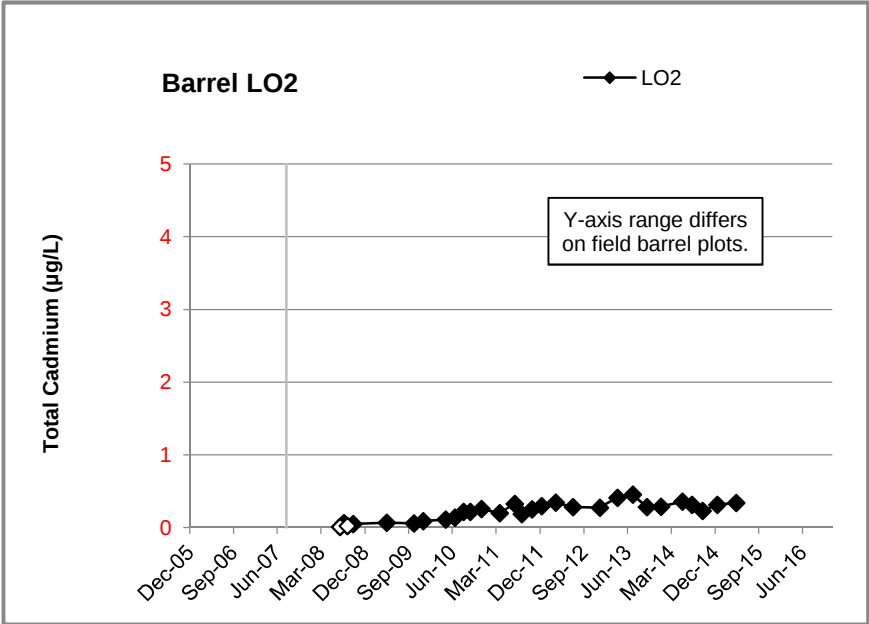
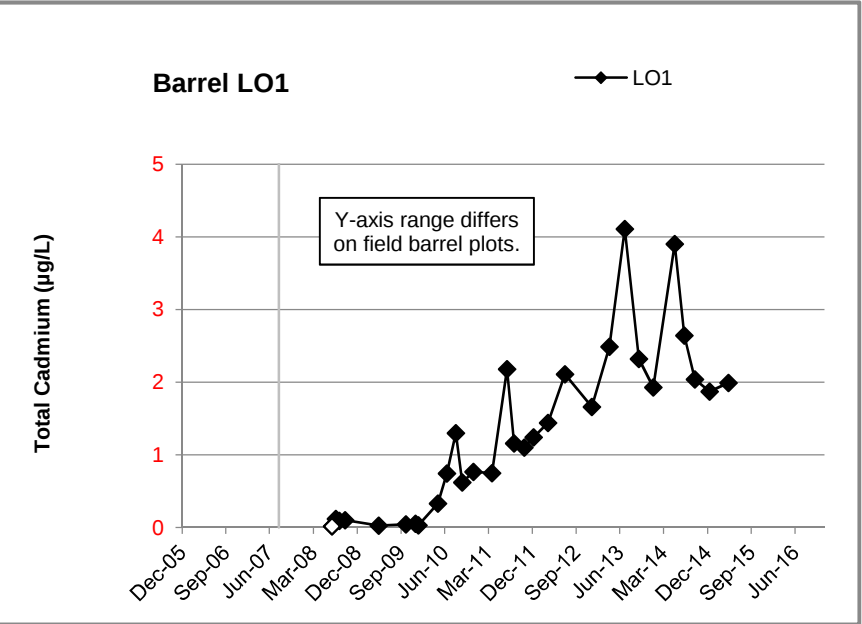
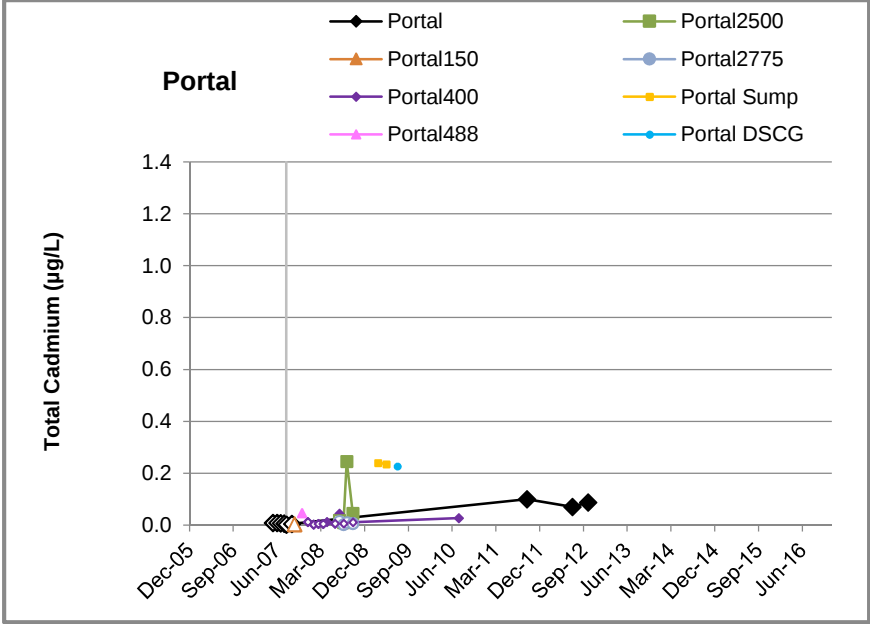
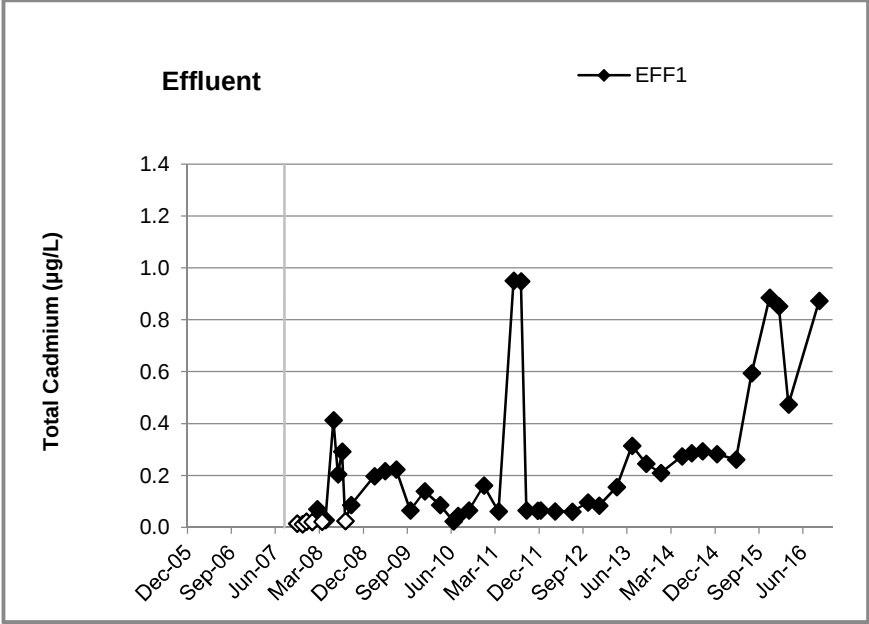
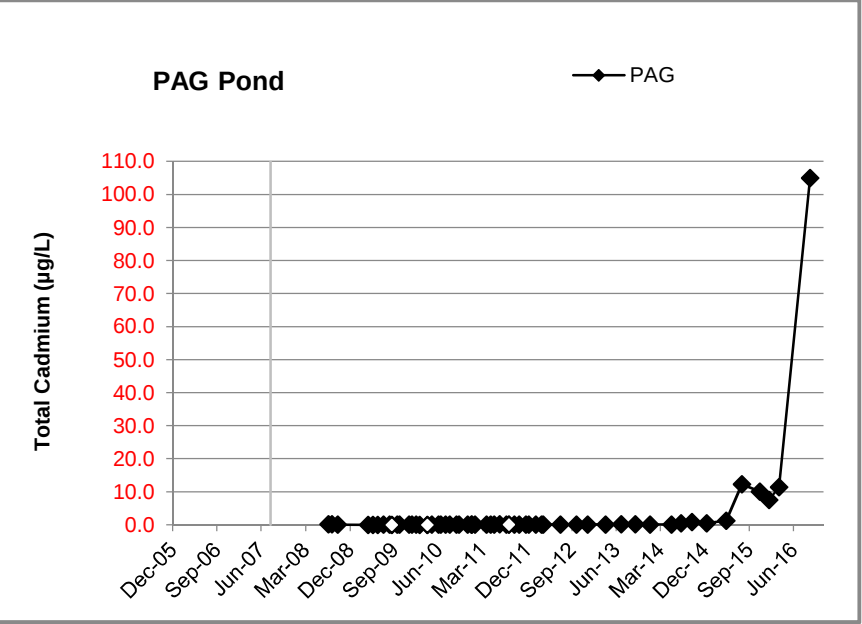
Effluent, PAG Pond, and Barrels Dissolved Arsenic (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-15.
Time Series Plots: Dissolved Arsenic
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

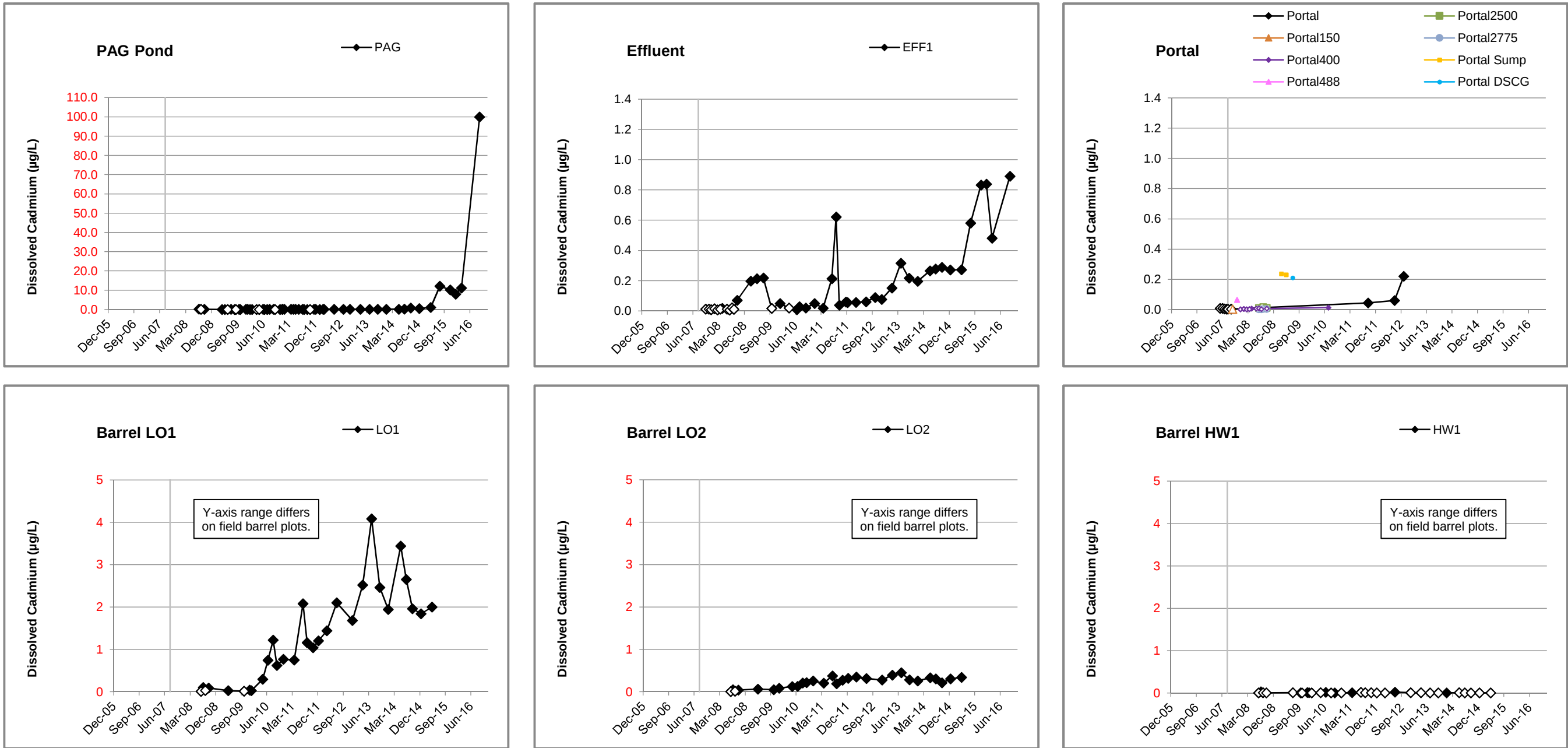
Effluent, PAG Pond, and Barrels Total Cadmium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-16.
Time Series Plots: Total Cadmium
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

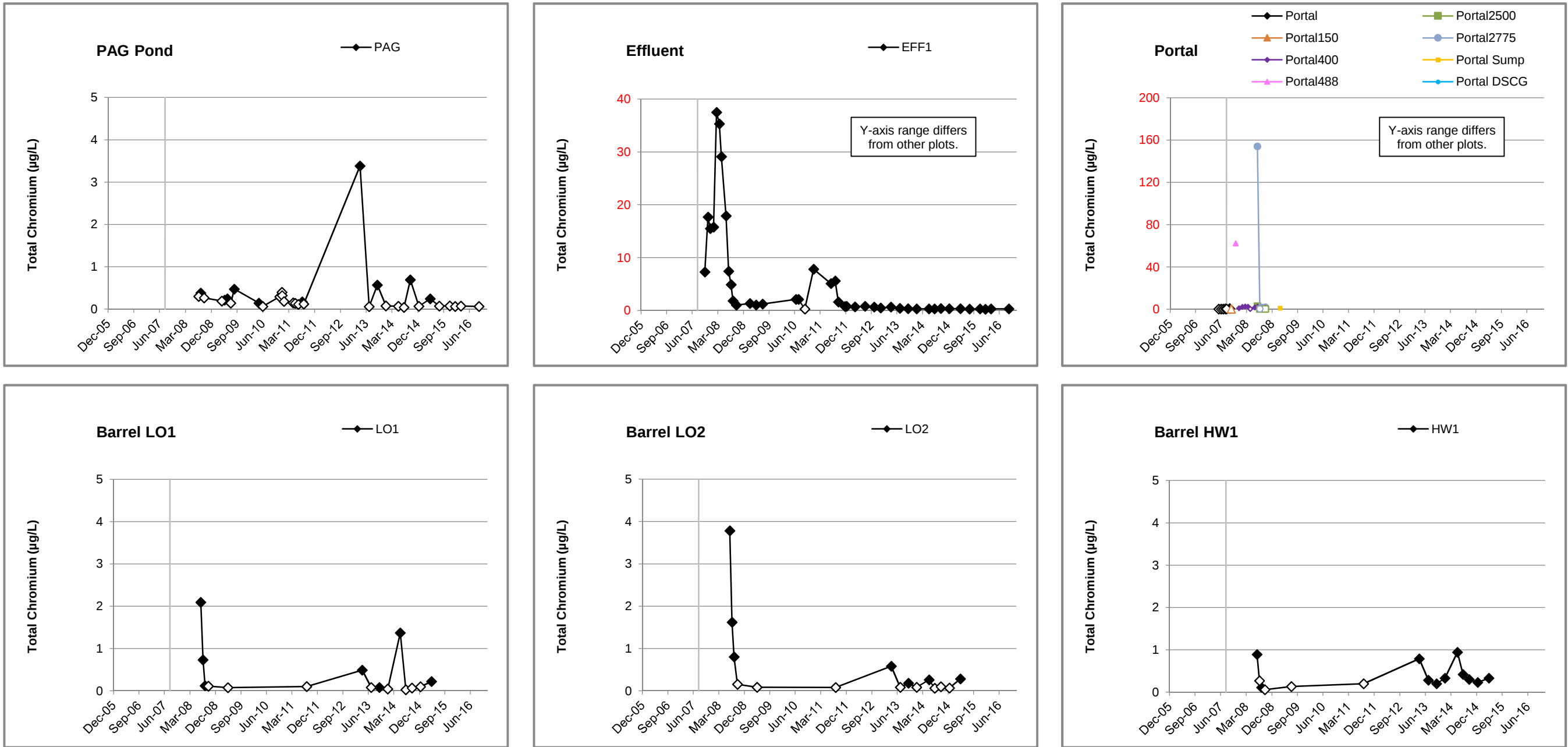
Effluent, PAG Pond, and Barrels
Dissolved Cadmium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-17.
Time Series Plots: Dissolved Cadmium
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

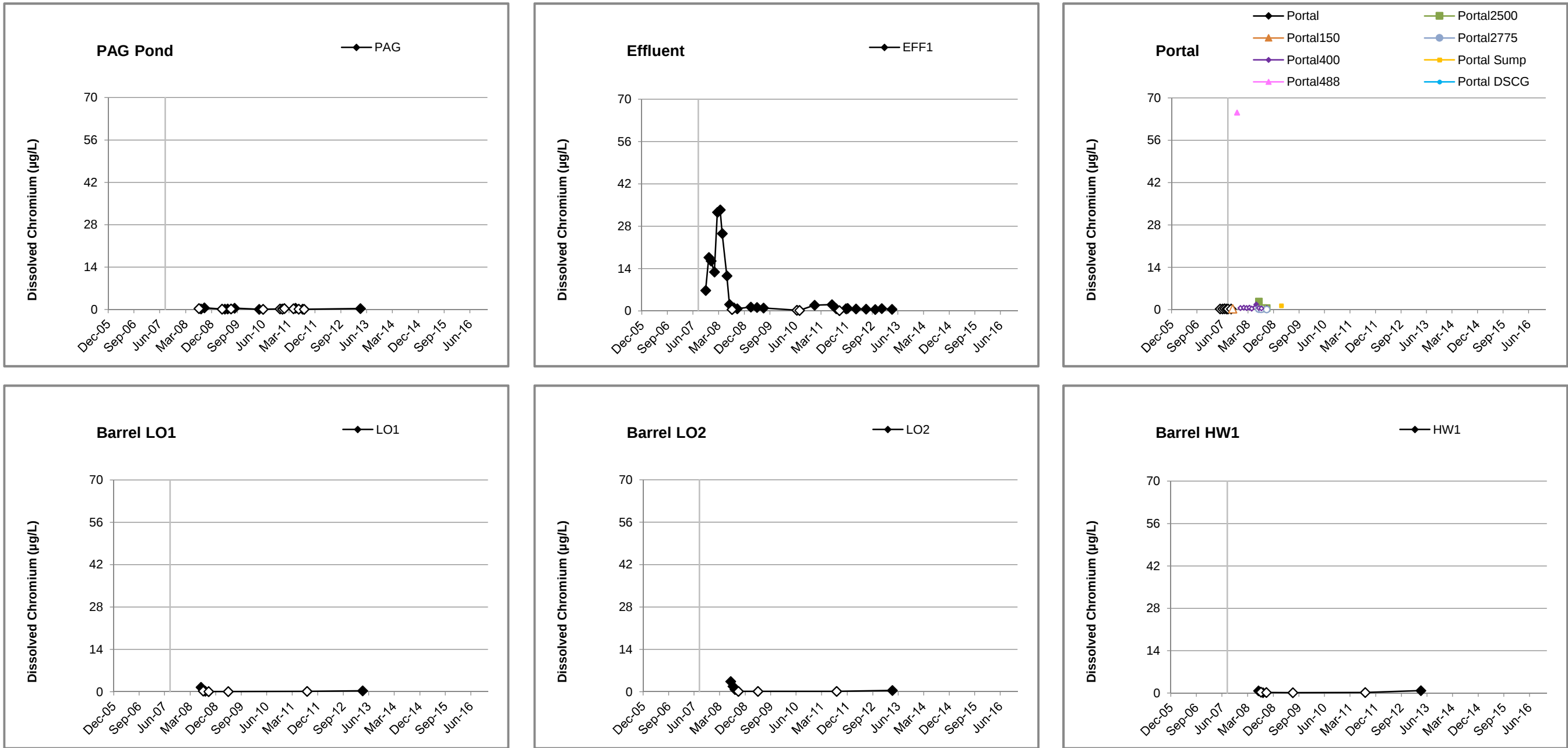
Effluent, PAG Pond, and Barrels
Total Chromium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-18.
Time Series Plots: Total Chromium
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

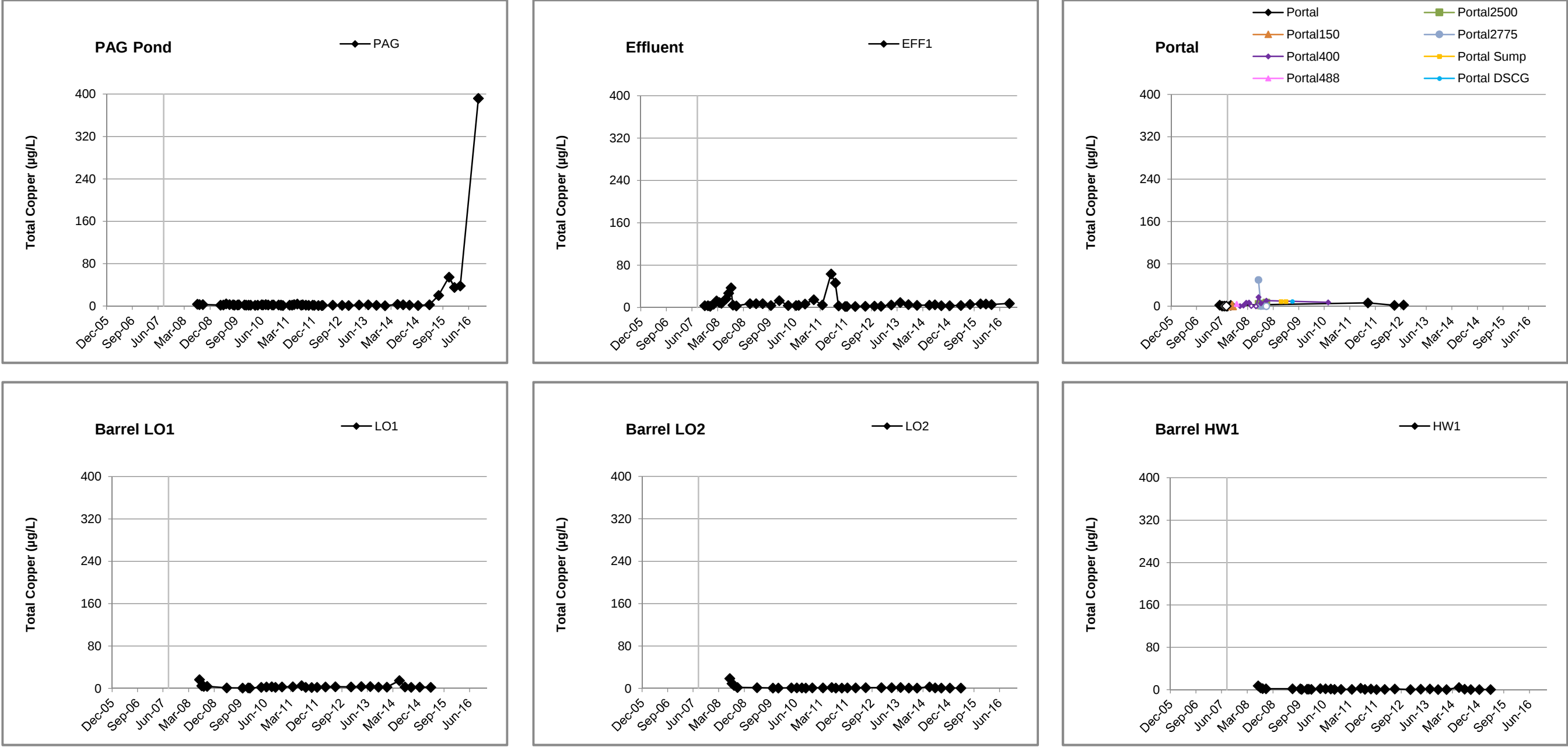
**Effluent, PAG Pond, and Barrels
Dissolved Chromium (µg/L)**



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-19.
Time Series Plots: Dissolved Chromium
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

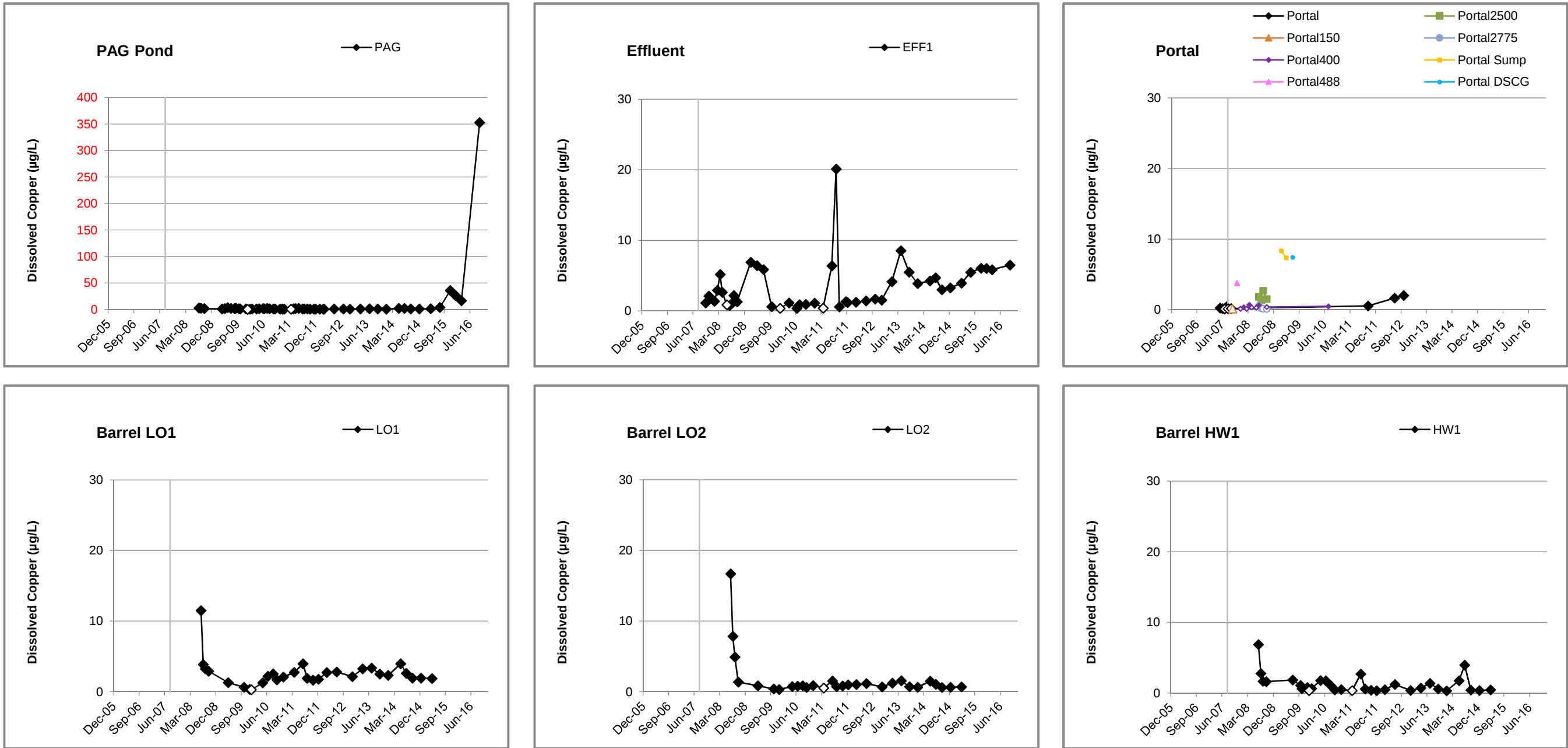
Effluent, PAG Pond, and Barrels
Total Copper (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-20.
Time Series Plots: Total Copper
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

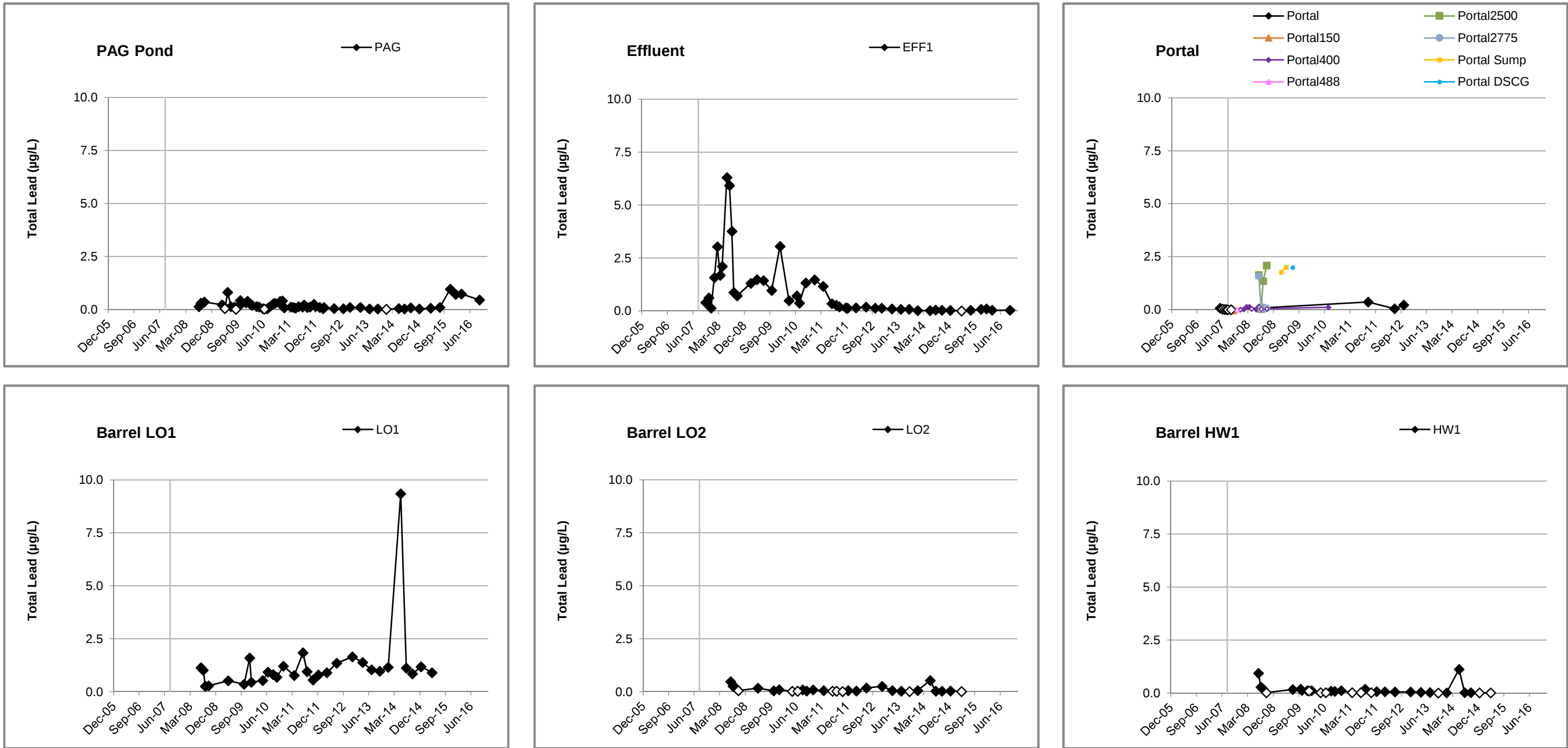
**Effluent, PAG Pond, and Barrels
Dissolved Copper (µg/L)**



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-21.
Time Series Plots: Dissolved Copper
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

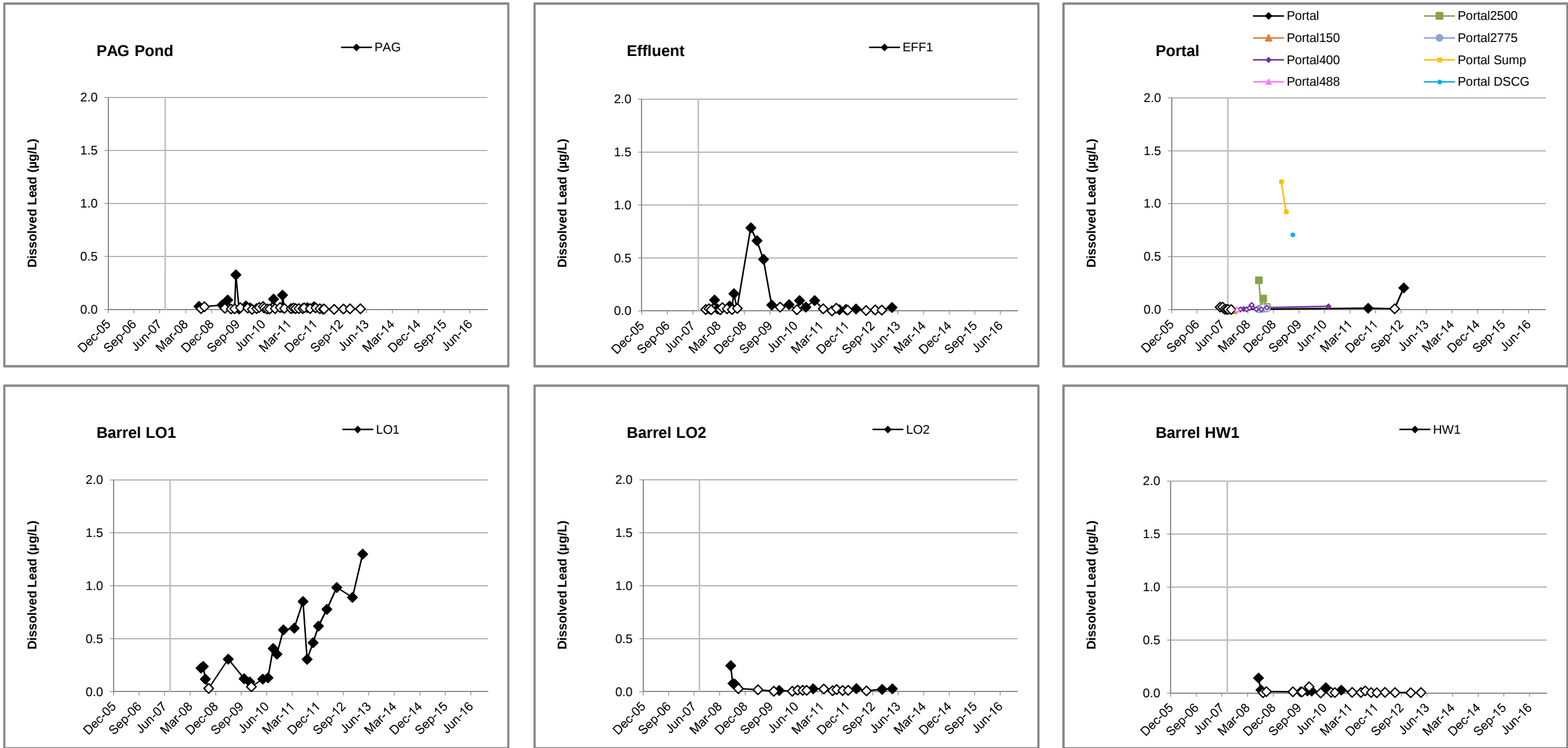
Effluent, PAG Pond, and Barrels
Total Lead (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-22.
Time Series Plots: Total Lead
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

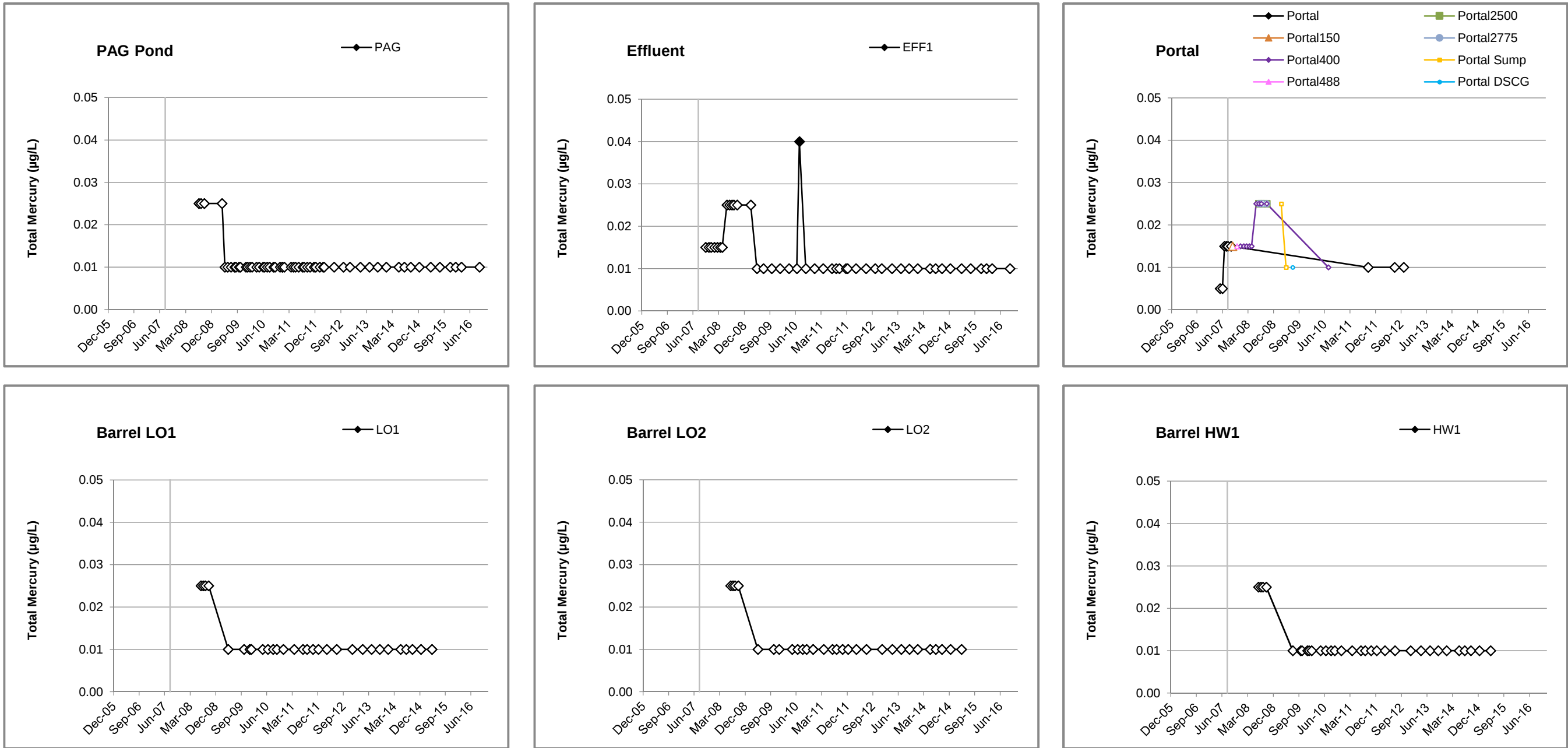
Effluent, PAG Pond, and Barrels
Dissolved Lead (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-23.
Time Series Plots: Dissolved Lead
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

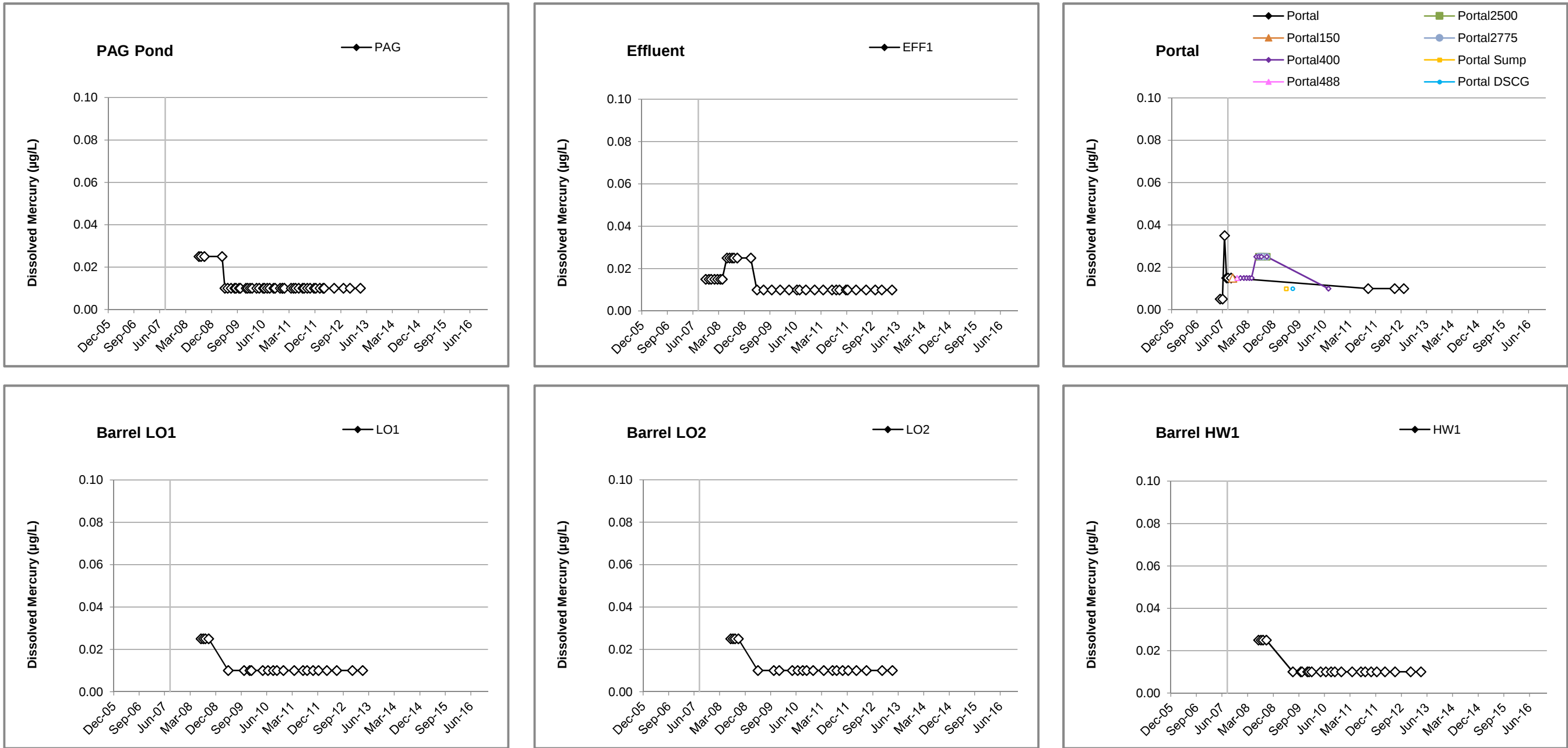
Effluent, PAG Pond, and Barrels
Total Mercury (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-24.
Time Series Plots: Total Mercury
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

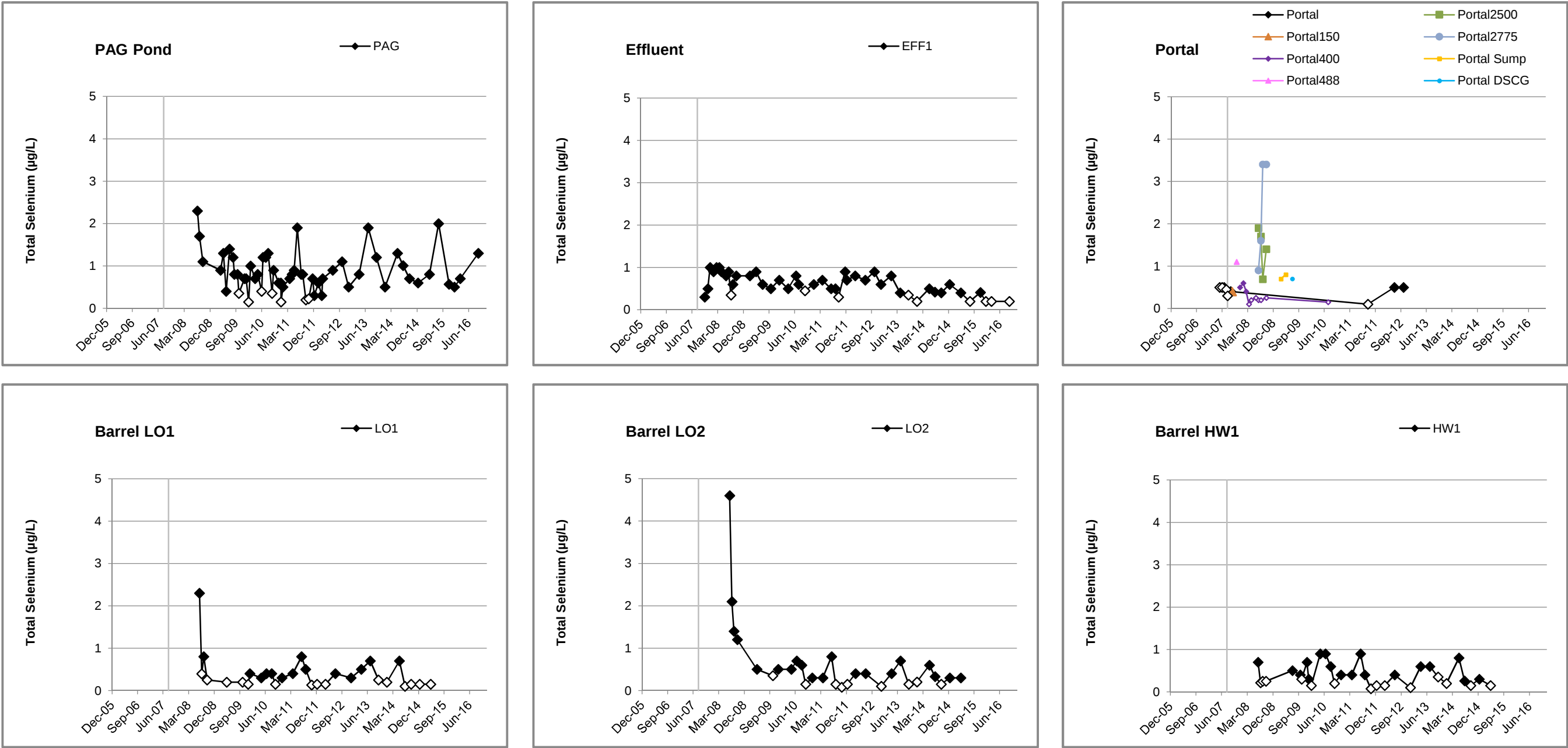
Effluent, PAG Pond, and Barrels
Dissolved Mercury (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-25.
Time Series Plots: Dissolved Mercury
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

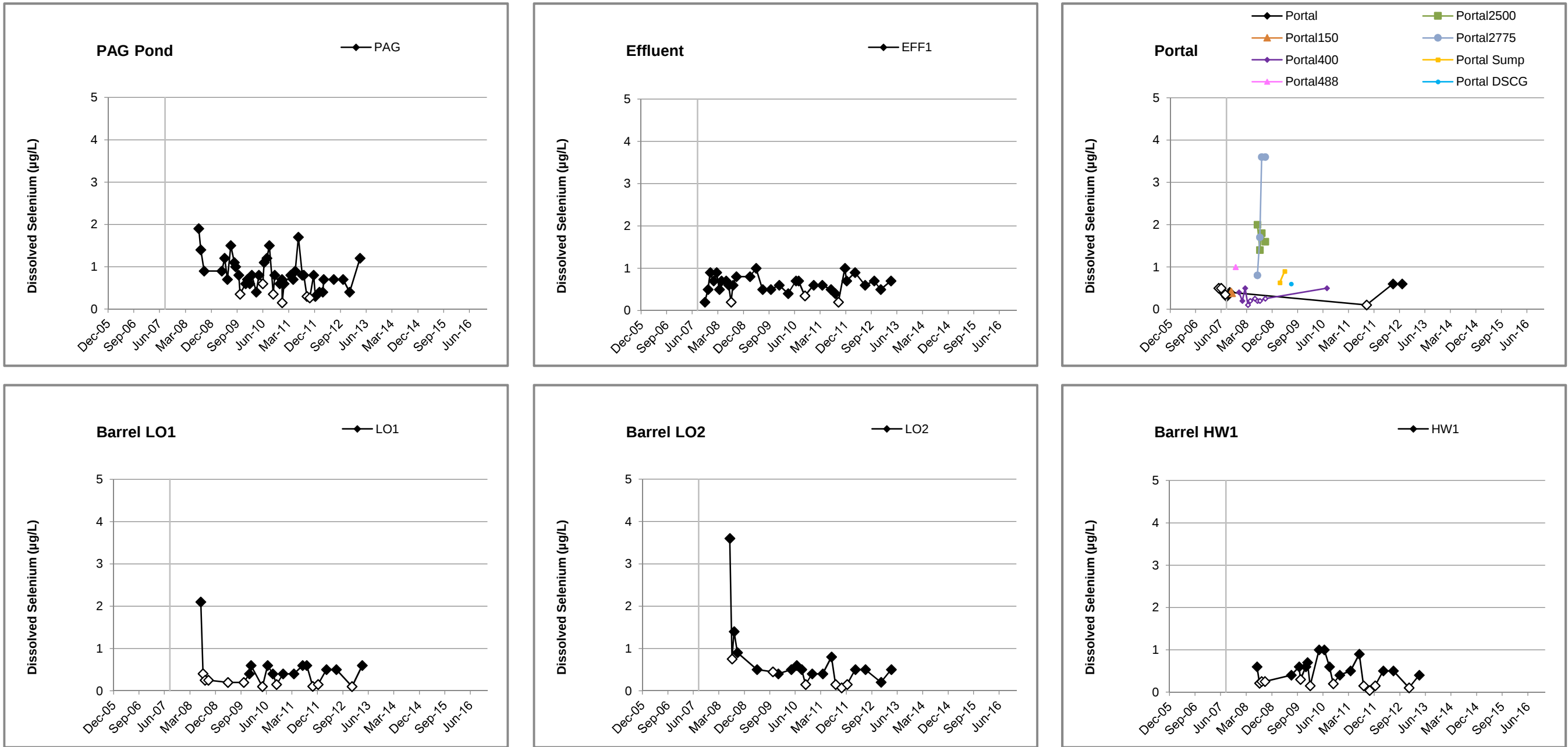
Effluent, PAG Pond, and Barrels Total Selenium (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-26.
Time Series Plots: Total Selenium
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

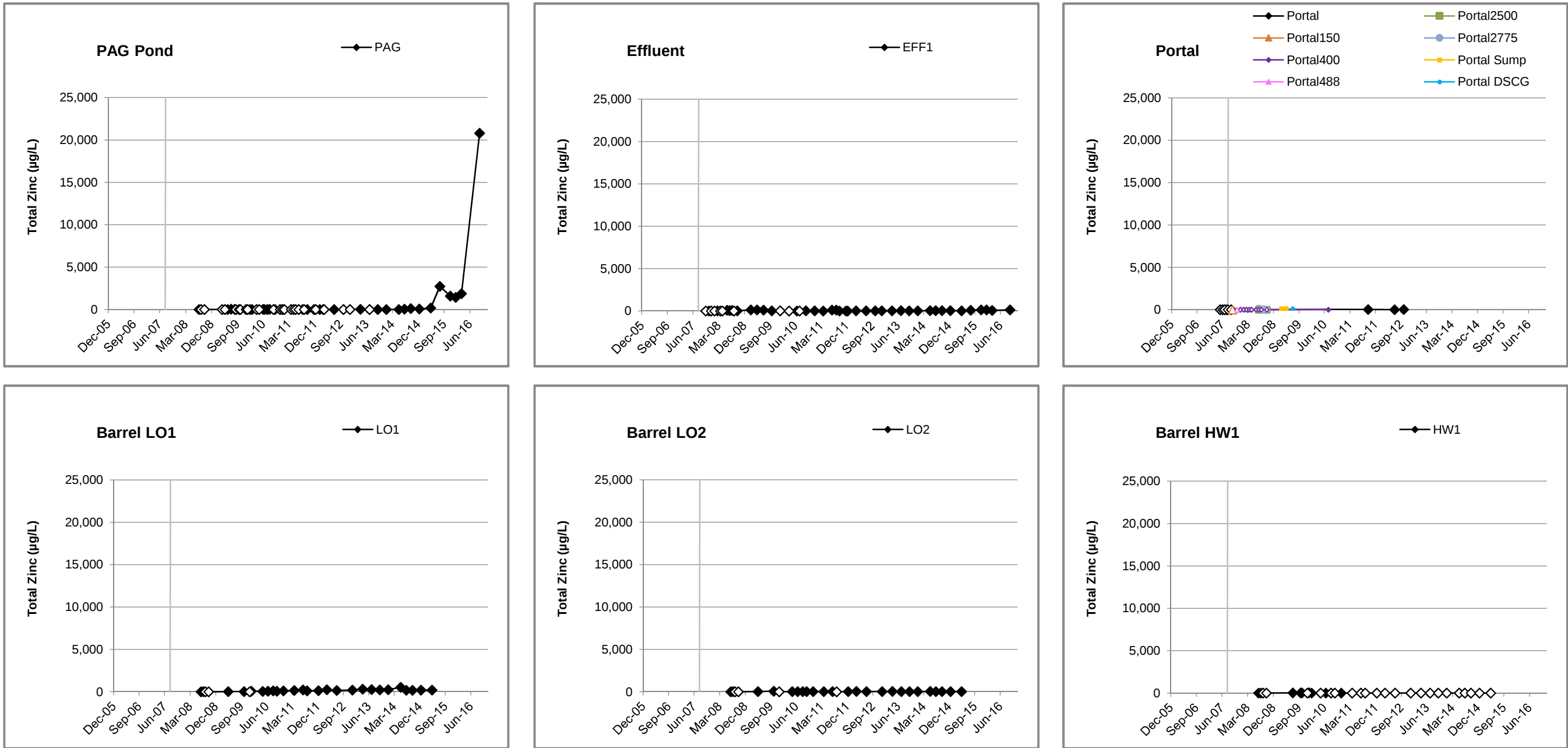
**Effluent, PAG Pond, and Barrels
Dissolved Selenium ($\mu\text{g/L}$)**



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-27.
Time Series Plots: Dissolved Selenium
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

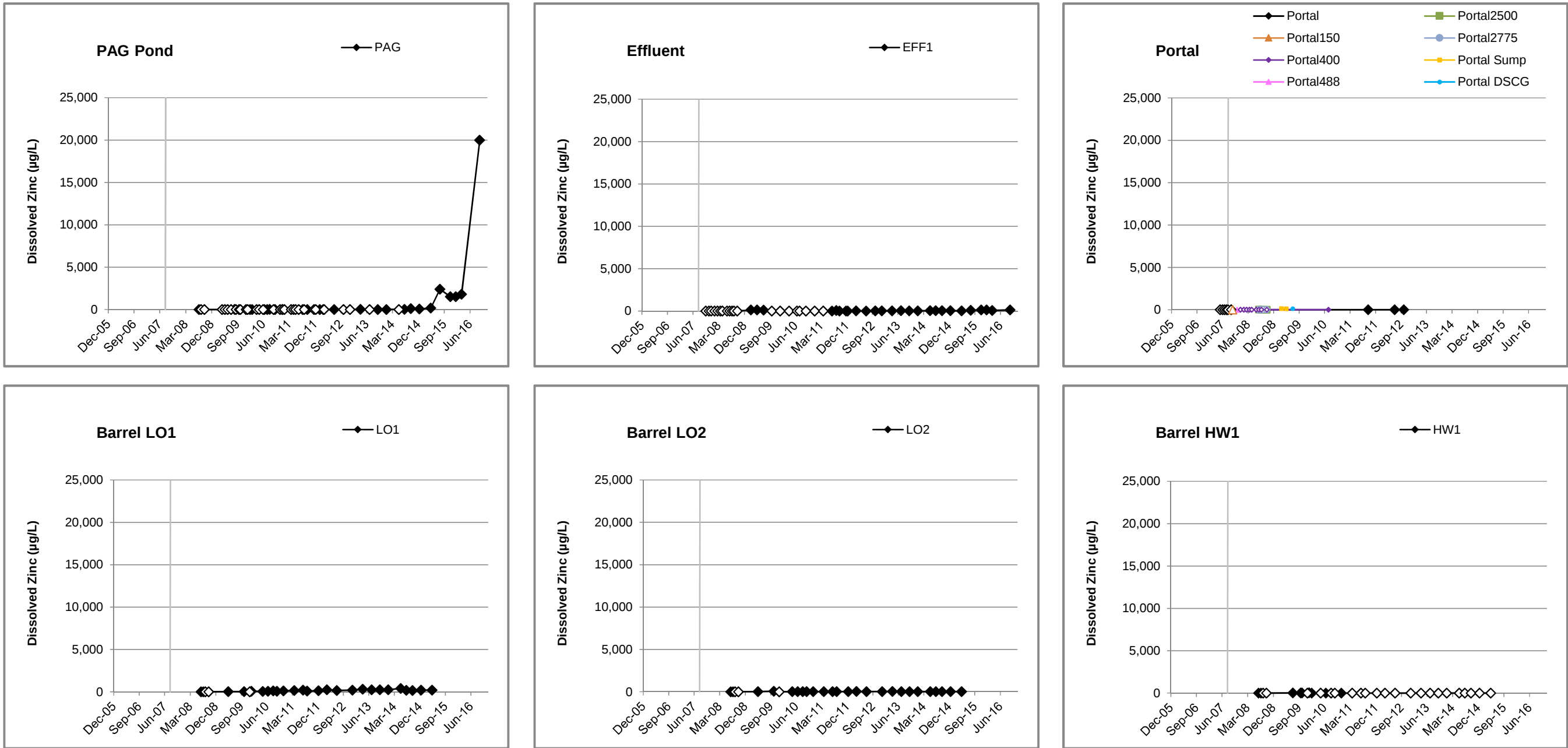
Effluent, PAG Pond, and Barrels
Total Zinc (µg/L)



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-28.
Time Series Plots: Total Zinc
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

**Effluent, PAG Pond, and Barrels
Dissolved Zinc (µg/L)**



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-29.
Time Series Plots: Dissolved Zinc
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

Effluent, PAG Pond, and Barrels Total Iron (µg/L)

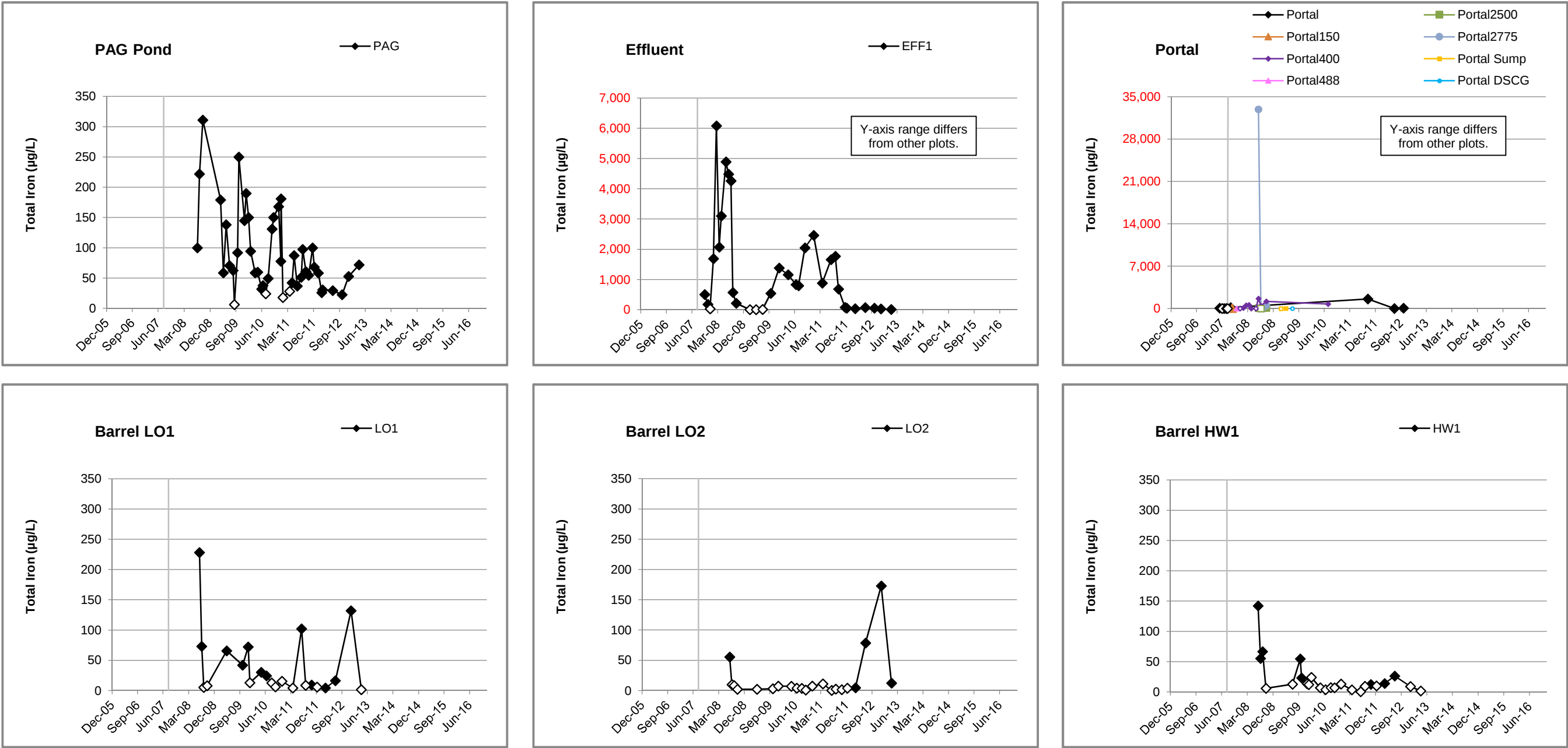
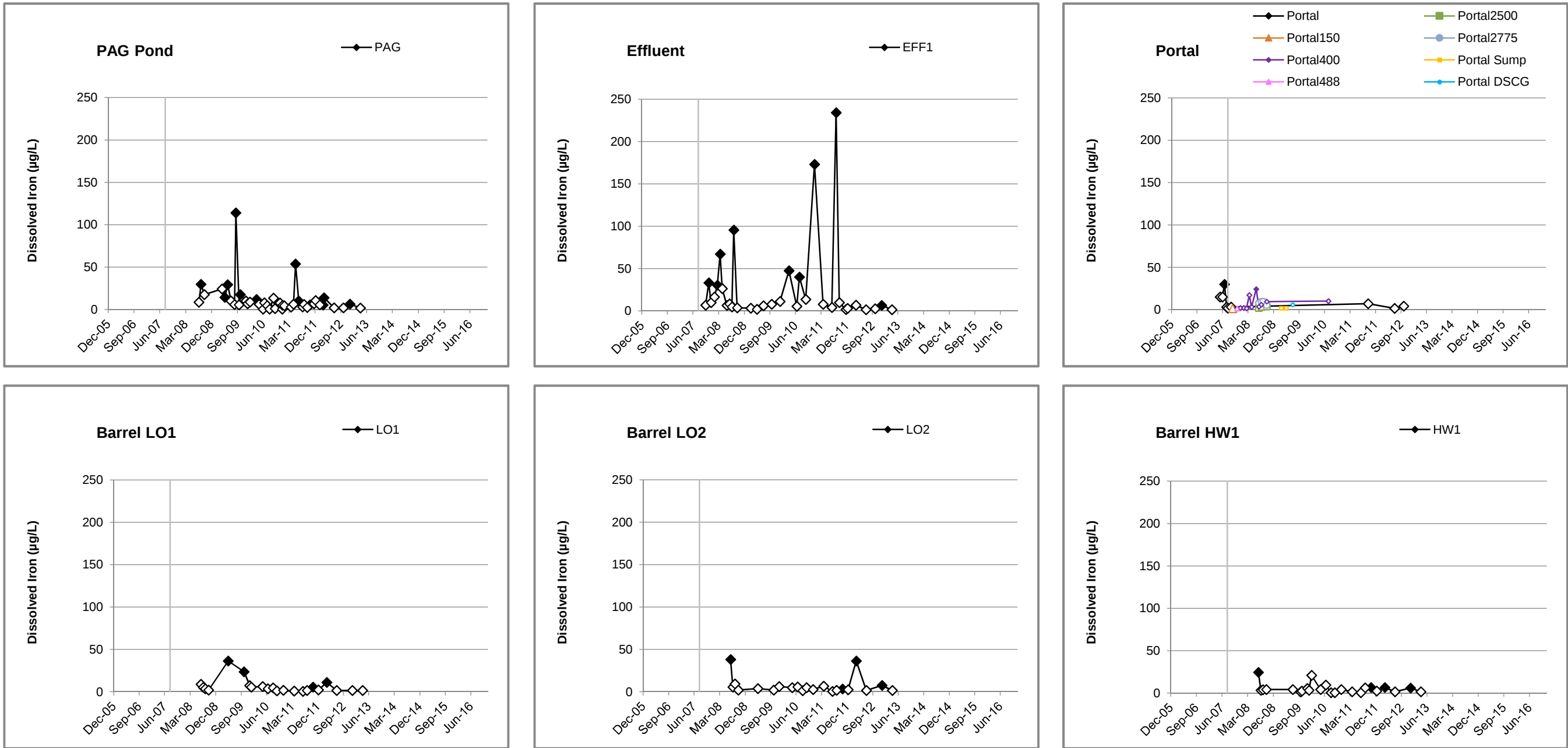


Figure 6-30.
Time Series Plots: Total Iron
Effluent, PAG Pond, and Barrels
Niblack Exploration Project

**Effluent, PAG Pond, and Barrels
Dissolved Iron (µg/L)**



Notes:
Values qualified as nondetect, by the laboratory or during data validation, are plotted as hollow symbols at half the qualified value.
The vertical gray line on each plot indicates initiation of project activity on September 21, 2007.

Figure 6-31.
Time Series Plots: Dissolved Iron
Effluent, PAG Pond, and Barrels
Niblack Exploration Project