Chesapeake Bay Project

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Contents

Chesapeake Bay Project API

Main data access page: http://www.chesapeakebay.net/data/

API notes: http://data.chesapeakebay.net/API

Water Quality

- Namespace
    - http://datahub.chesapeakebay.net/api.{format}/WaterQuality/
- Programs WaterQuality/Programs
- Projects WaterQuality/Projects
- Geographical Attributes List
    - `HUC8` datahub.chesapeakebay.net/api.json/HUC8
    - `HUC12` datahub.chesapeakebay.net/api.csv/HUC12
    - `FIPS` datahub.chesapeakebay.net/api.csv/FIPS
        * "County/City (FIPS) - the Federal Information Processing System (FIPS) assigns 5-digit codes to all counties and incorporated cities in the United States. The first two digits correspond to the state and the last three to the county or incorporated city within that state."
        * Get a FIPS list for the area around Chesapeake Bay
        * API doesn't seem to work for FIPS. . .
    - `CBSeg2003` datahub.chesapeakebay.net/api.json/CBSeg2003
    - `SegmentShed2009` datahub.chesapeakebay.net/api.json/SegmentShed2009
    - `Station` datahub.chesapeakebay.net/api.json/Station

FIPS codes for Virginia, Maryland, Delaware, and DC

Some helpful documentation on translating parameter codes: http://www.chesapeakebay.net/documents/3676/cbwqdb2004_rb.pdf
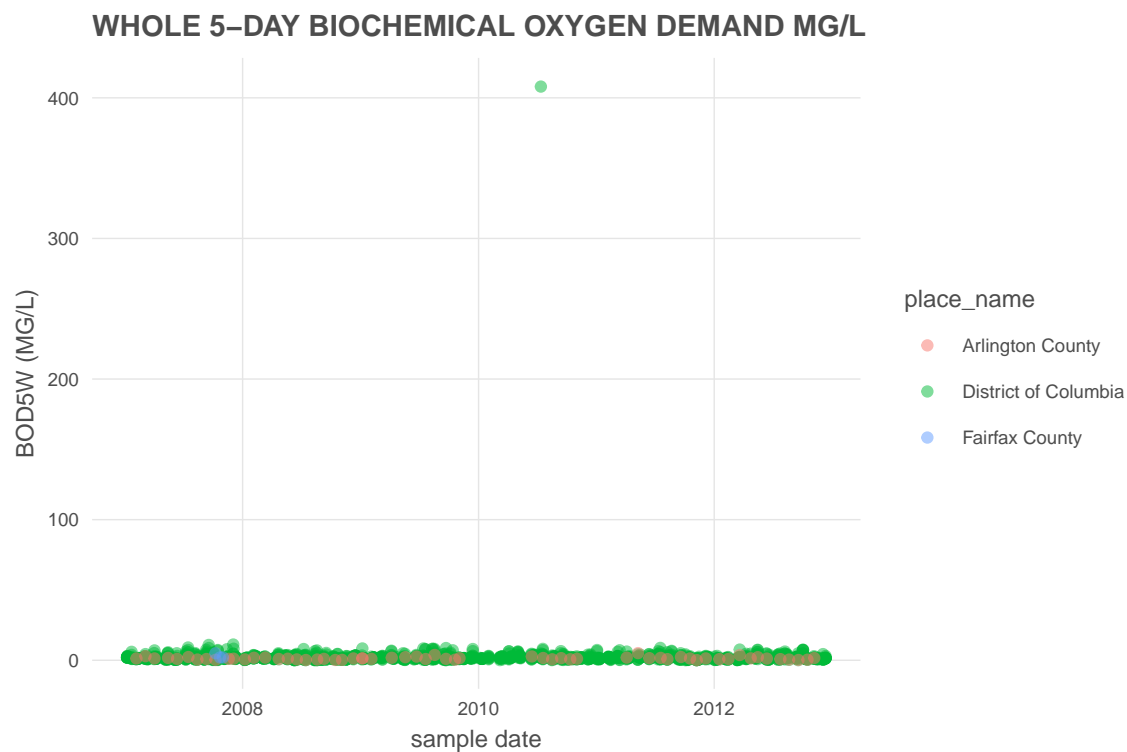
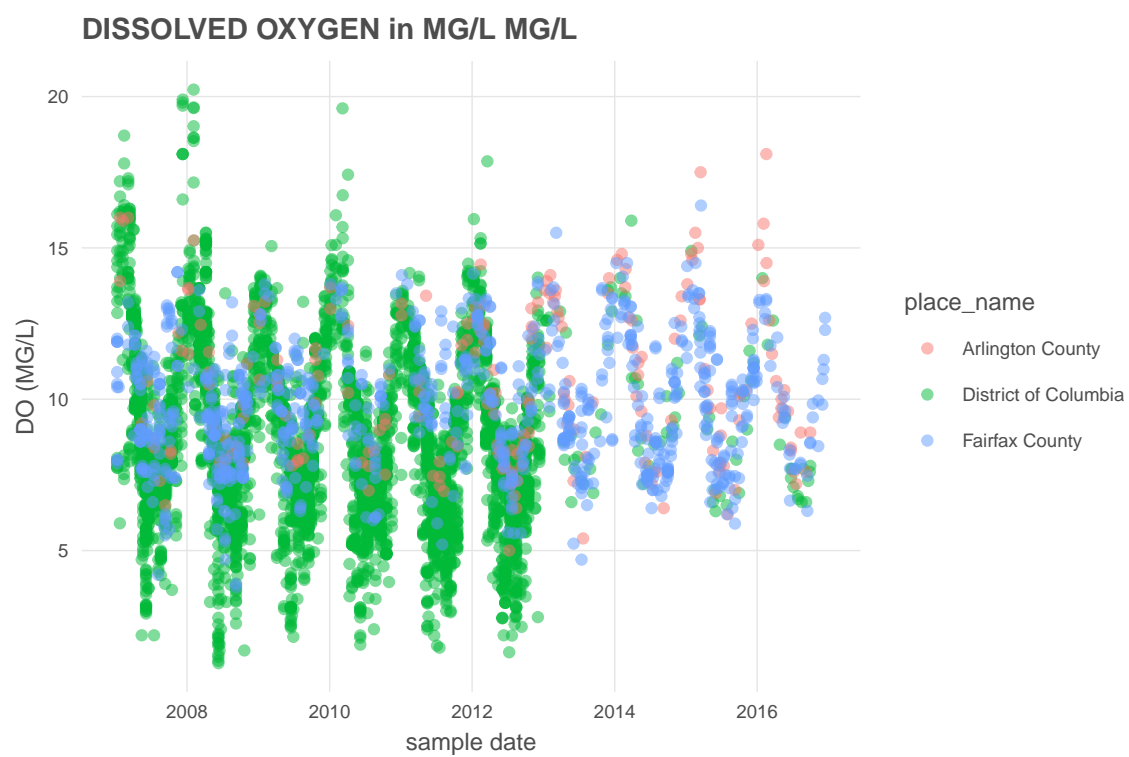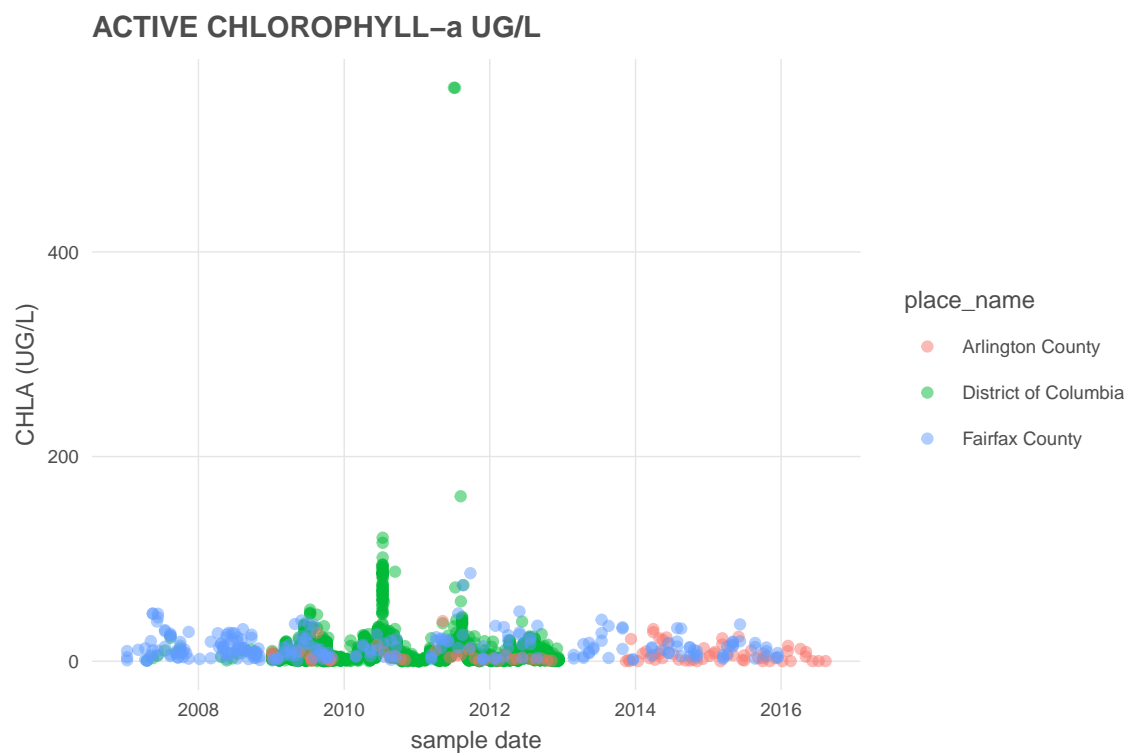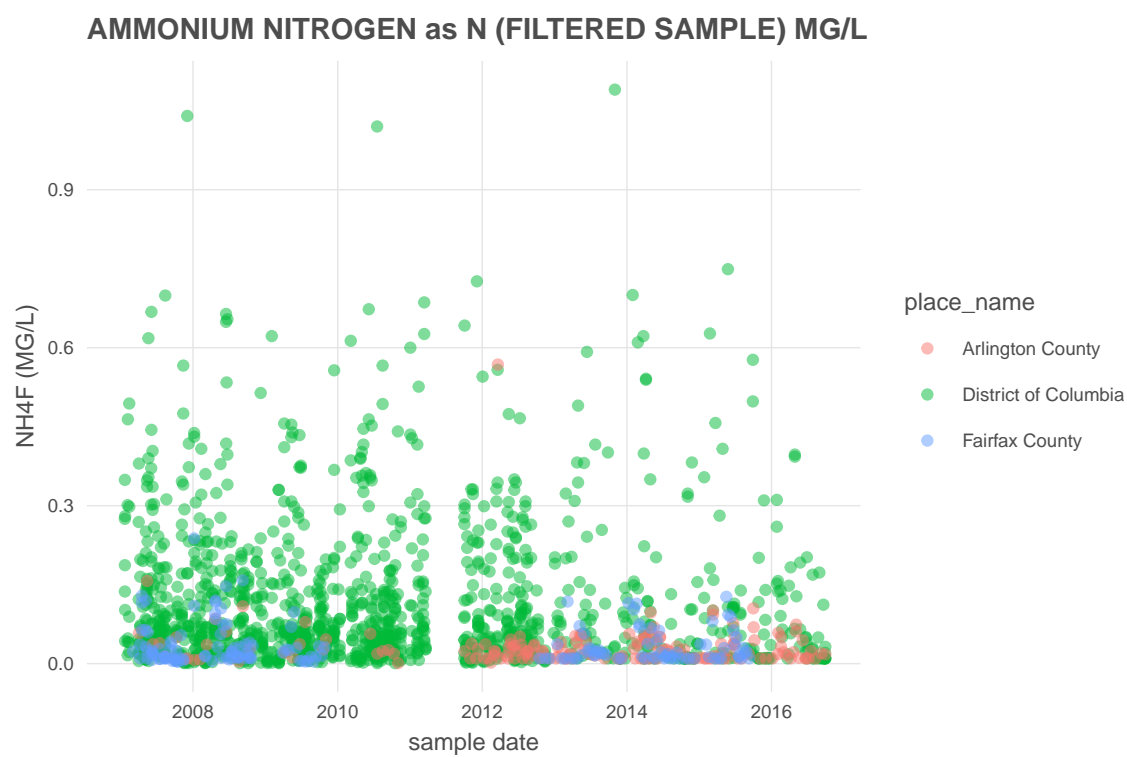### Parameter list for Fairfax/Arlington/DC area

All the parameters in this area:

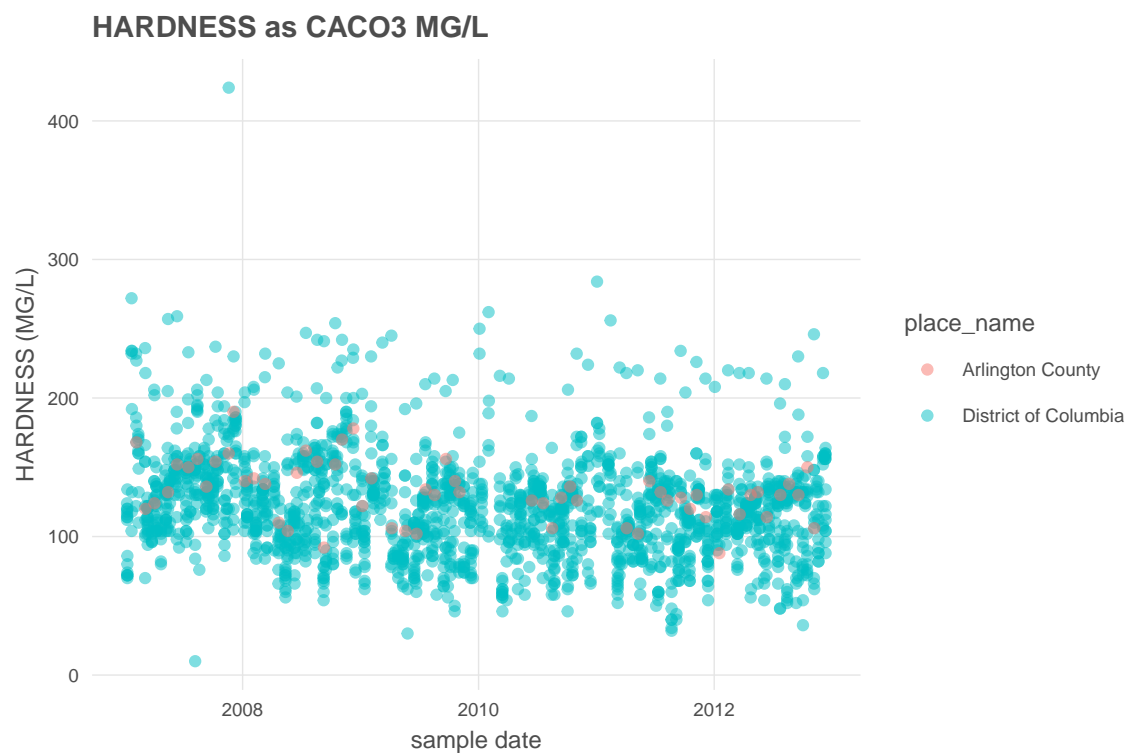- "WHOLE 5-DAY BIOCHEMICAL OXYGEN DEMAND MG/L"
  "ACTIVE CHLOROPHYLL-A UG/L"
  "DISSOLVED INORGANIC NITROGEN MG/L"
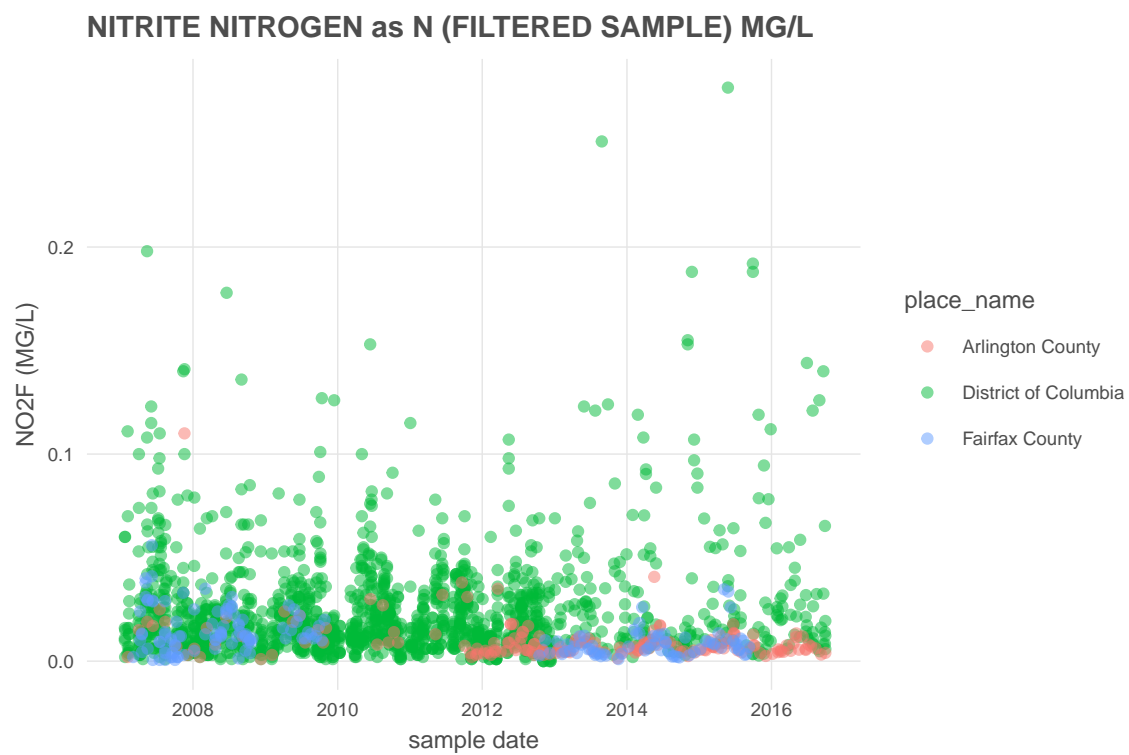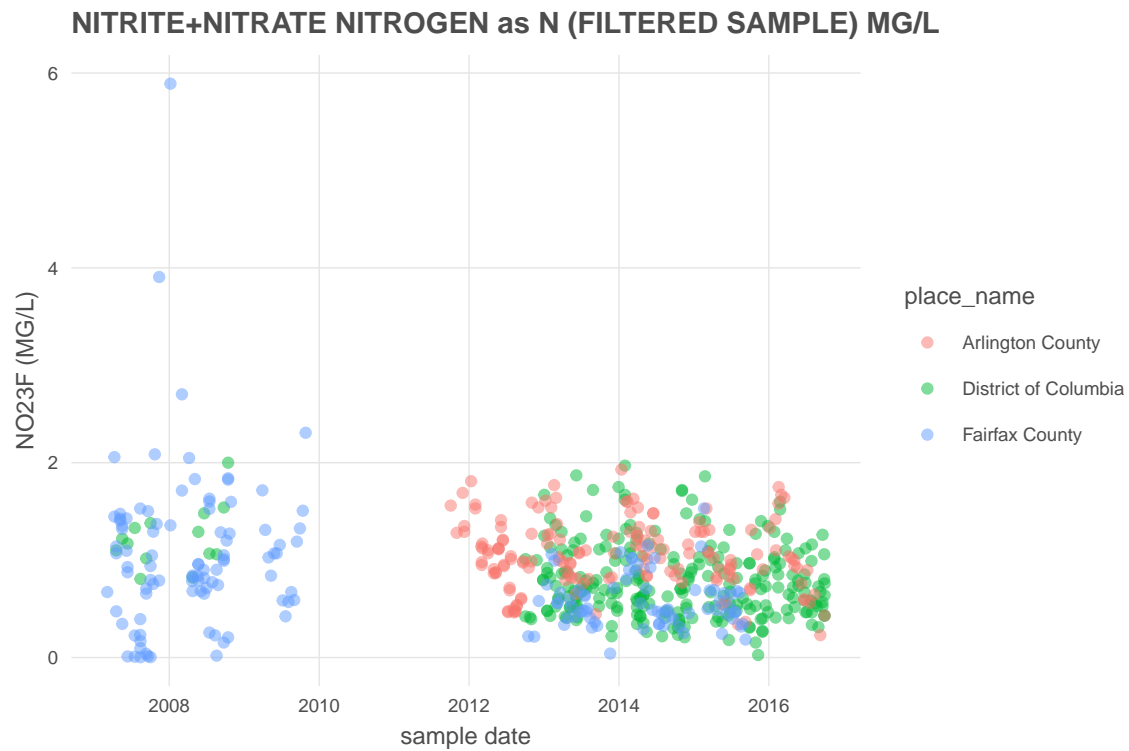 "DISSOLVED OXYGEN IN MG/L MG/L"
  "DISSOLVED ORGANIC NITROGEN MG/L"

"DISSOLVED ORGANIC PHOSPHORUS MG/L"
"HARDNESS AS CACO3 MG/L"
"AMMONIUM NITROGEN AS N (FILTERED SAMPLE) MG/L"
"NITRITE+NITRATE NITROGEN AS N (FILTERED SAMPLE) MG/L"
"NITRITE NITROGEN AS N (FILTERED SAMPLE) MG/L"
"NITRATE NITROGEN AS N (FILTERED SAMPLE) MG/L"
"PARTICULATE CARBON MG/L"
"PH CORRECTED FOR TEMPERATURE (25 DEG C) SU"
"SALINITY UNITS IN PPT AND EQUAL TO PRACTICAL SALNITY UNITS (PSU) PPT" "SECCHI
DEPTH M"
"TOTAL ALKALINITY AS CACO3 MG/L"
"TOTAL DISSOLVED NITROGEN MG/L"
"TOTAL DISSOLVED PHOSPHORUS MG/L"
"TOTAL SUSPENDED SOLIDS MG/L"
"TURBIDITY; NEPHELOMETRIC METHOD NTU"
"WATER TEMPERATURE DEG C"

Plots of parameters vs time

ACTIVE CHLOROPHYLL–a UG/L

DISSOLVED OXYGEN in MG/L MG/L

HARDNESS as CACO3 MG/L

AMMONIUM NITROGEN as N (FILTERED SAMPLE) MG/L

NITRITE+NITRATE NITROGEN as N (FILTERED SAMPLE) MG/L

NITRITE NITROGEN as N (FILTERED SAMPLE) MG/L

NITRATE NITROGEN as N (FILTERED SAMPLE) MG/L

PH CORRECTED for TEMPERATURE (25 DEG C) SU

SALINITY UNITS in PPT and EQUAL to PRACTICAL SALNITY UNITS (PSU) PPT

SECCHI DEPTH M

TOTAL ALKALINITY as CACO3 MG/L

TOTAL DISSOLVED NITROGEN MG/L

TOTAL DISSOLVED PHOSPHORUS MG/L

TOTAL SUSPENDED SOLIDS MG/L

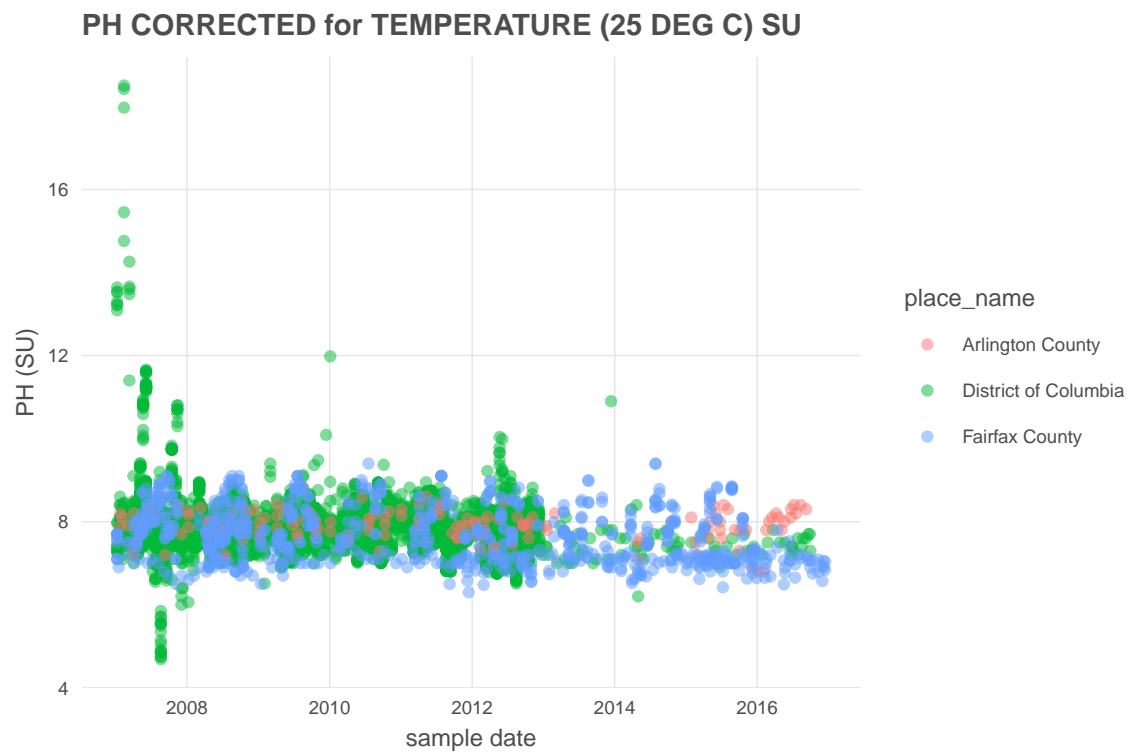## TURBIDITY; NEPHELOMETRIC METHOD NTU
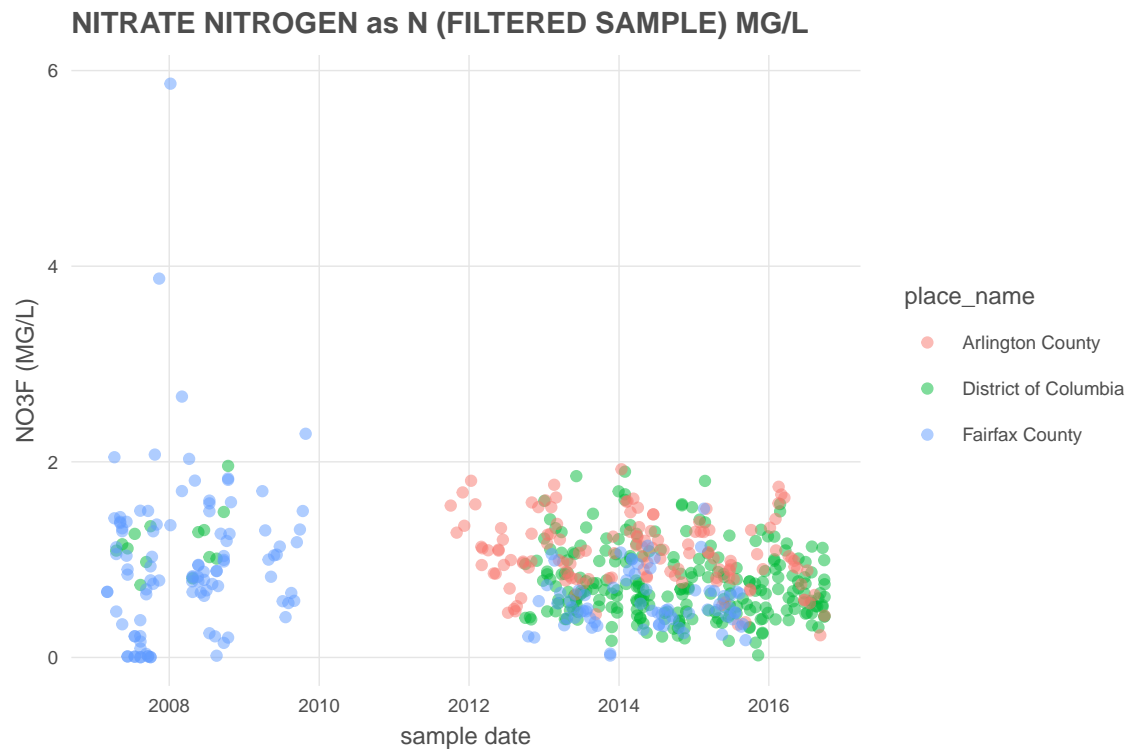

WATER TEMPERATURE DEG C