



Effectiveness Monitoring Report (EMR) for the C-Area Groundwater (CAGW) Operable Unit Removal Action (U)

July 2021 through June 2022

SEMS Number: 82

SRNS-RP-2022-00530

Revision 0

September 2022

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Printed in the United States of America

Prepared for
U.S. Department of Energy
and
Savannah River Nuclear Solutions, LLC
Aiken, South Carolina

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LIST OF ABBREVIATIONS AND ACRONYMS

1,2-DCE	1,2-dichloroethylene
2Q22	Second calendar quarter of 2022
4Q21	Fourth calendar quarter of 2021
amsl	above mean sea level
bgs	below ground surface
CAGW	C-Area Groundwater
CBRP	C-Area Burning/Rubble Pit
cis-1,2-DCE	cis-1,2-dichloroethylene
cm/yr	Centimeters per year
CSM	conceptual site model
DO	dissolved oxygen
DPT	direct push technology
EMP	Effectiveness Monitoring Plan
EMR	Effectiveness Monitoring Report
ERH	electrical resistance heating
SQL	Sample Quantitation Limit
FMB	Fourmile Branch
ft	feet
ft/yr	feet per year
gal	gallon
GAU	Gordon Aquifer Unit
GCU	Gordon Confining Unit
in/yr	inches per year
IROD	Interim Record of Decision
kg	kilograms
km ²	square kilometers
L	liter
LAZ	Lower Aquifer Zone
lbs	pounds
µg/L	microgram per liter
m	meter
MAZ	middle aquifer zone
MCL	maximum contaminant level
MDL	method detection limit
mi	mile
ML	multi-level
MNA	monitored natural attenuation
NTC	non-time critical
ORP	oxidation reduction potential
OU	operable unit
pCi/mL	picocurie per milliliter
PCE	tetrachloroethylene
RA	removal action

LIST OF ABBREVIATIONS AND ACRONYMS *(Continued/End)*

RADP	removal action design plan
RAO	removal action objective
RCRA	Resource Conservation and Recovery Act
RSER/EE/CA	Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis
SCDHEC	South Carolina Department of Health and Environmental Control
sMMO	Soluble methane monooxygenase
SRNS	Savannah River Nuclear Solutions, LLC
SRS	Savannah River Site
TCCZ	Tan Clay Confining Zone
TCE	trichloroethylene
TCLC	Tan Clay Lower Clay
TCUC	Tan Clay Upper Clay
TOC	total organic carbon
TPH	total petroleum hydrocarbons
trans-1,2-DCE	trans-1,2-dichloroethylene
UAZ	Upper Aquifer Zone
USDOE	U.S. Department of Energy
USEPA	U.S. Environmental Protection Agency
UTRA	Upper Three Runs Aquifer
VC	vinyl chloride
VOC	volatile organic compound
WSRC	Washington Savannah River Company LLC (October 2005 through August 2008)
WSRC	Westinghouse Savannah River Company (before October 2005)
yr	year

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1.0 INTRODUCTION

Groundwater associated with the C-Area Groundwater (CAGW) Operable Unit (OU) is contaminated with tritium and volatile organic compounds (VOCs), primarily trichloroethylene (TCE), due to releases associated with reactor operations. The U.S. Department of Energy (USDOE), U.S. Environmental Protection Agency (USEPA), and South Carolina Department of Health and Environmental Control (SCDHEC) agreed to conduct a non-time critical (NTC) removal action (RA) at the CAGW OU to reduce potential risk to human health and the environment. The CAGW OU NTC RA, conducted in July and August of 2019, focuses on the TCE contamination in the distal portion of the groundwater plume. This Effectiveness Monitoring Report (EMR) is the third of five annual reports to document the effectiveness of the CAGW OU NTC RA. The CAGW OU NTC RA along with the Applicable or Relevant and Appropriate Requirements are presented in the Action Memorandum, Revision 0 (USDOE 2018) for the CAGW OU and the *Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis (RSER/EE/CA) for C-Area Groundwater Operable Unit* (Savannah River Nuclear Solutions [SRNS] 2018b).

2.0 OPERABLE UNIT DESCRIPTION AND HISTORY

C Area is situated near the center of the Savannah River Site (SRS) (Figure 1). The primary SRS operational facility in C Area was C-Reactor, which operated between 1955 and 1985. Known sources associated with reactor operations, such as the C-Reactor Seepage Basins (904-66G, -67G, -68G), C-Reactor Area TCE Vadose Zone Source, C-Reactor Purification Area Tritium Source, and other non-specified sources, resulted in tritium and VOC contamination in groundwater. Figure 2 depicts the various sources of contamination during operations and the 2021 CAGW OU TCE groundwater plume.

The CAGW OU is located in the Fourmile Branch (FMB) watershed and encompasses groundwater beneath C Area, which flows west to FMB and south to Castor Creek. The CAGW OU includes a groundwater subunit and a surface water subunit. The nature and extent of contamination at the CAGW OU was comprehensively investigated beginning in 1998 using

groundwater monitoring wells and direct-push technology (DPT) samples (Westinghouse Savannah River Company [WSRC] 2004). The Groundwater Subunit consists of two plumes: 1) a southern TCE and tritium plume originating near the Reactor Building (105-C) extending west to FMB and south to Castor Creek, and 2) a northern tritium plume in the vicinity of the Twin Lakes drainage, originating near the Retention Basin for 100-C Containment (904-89G) and extending to FMB. VOC contamination in the Twin Lakes area is associated with releases from the C-Area Burning/Rubble Pit (CBRP) OU that is being remediated by monitored natural attenuation (MNA) and is not part of the CAGW OU scope.

The 2022 CAGW OU TCE groundwater plume extends south from the C-Area Reactor Building (105-C) to Castor Creek and an unnamed tributary to Castor Creek (Figure 2). The fourth calendar quarter of 2021 (4Q21) CRGW OU TCE plume is depicted in Figure 2, because more C-Area stations are sampled in 4Q21 than in the second calendar quarter of 2022 (2Q22).

In December 2016, the USDOE, USEPA, and SCDHEC identified the distal portion of the CAGW OU TCE plume as a candidate for an NTC RA. The Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis (RSER/EE/CA) for CAGW OU (SRNS 2018b) evaluated the following three cleanup alternatives based on effectiveness, ease of implementation, and cost analysis: 1) No Action, 2) Treatment Barrier Using Emulsified Edible Oil, and 3) In Situ Chemical Oxidation Using Sodium Persulfate. The RSER/EE/CA was approved in 2018 and the Action Memorandum selected a Treatment Barrier Using Emulsified Edible Oil as the technology to implement in the distal portion of the plume. Tritium is not part of the CAGW OU NTC RA, but it is an important constituent to monitor in the overall CAGW OU.

2.1 Removal Action Characterization, Objectives, and Implementation

To support the CAGW OU NTC RA, additional characterization of the discharge area of the distal plume conducted in 2017 to 2019 demonstrated that the TCE contamination is limited to the Middle Aquifer Zone (MAZ), which is about 3 meters (m) (10 feet [ft]) thick in the injection areas and about 5 m (16.4 ft) thick along the discharge zone to the unnamed tributary. The 2019 pre-injection baseline data, included on Figure 3, indicate the margins of the distal TCE plume have shifted slightly towards the east relative to the 2016 CAGW OU TCE plume location. Six wells

(CRW023C, CRW024C, CRW025C, CRW026C, CRW027C, and CRW028C) were installed in 2018 and 2019 to collect baseline data and monitor the effectiveness of the CAGW OU NTC RA (Figure 3). Of these six wells, well CRW024C had the highest TCE result (30.6 microgram per liter [$\mu\text{g/L}$]) in the 2019 baseline sampling. CRW024C was installed up-gradient of CAGW OU Oil Injection Area 1 and CRW023C was installed up-gradient of CAGW OU Oil Injection Area 2 (Figure 3). At well CRW023C the highest TCE result in the 2019 baseline sampling was 18.1 $\mu\text{g/L}$. In 2019, TCE was above the maximum contaminant limit (MCL) (5.0 $\mu\text{g/L}$) in three surface water stations: CCT-03 (10.9 $\mu\text{g/L}$), CCT-02 (6.62 $\mu\text{g/L}$), and CCT-01 (9.38 $\mu\text{g/L}$). These three surface water stations are located on the small unnamed tributary that discharges to Castor Creek (Figure 3). TCE has been detected in Castor Creek above detection limits but had not been detected above the MCL.

The CAGW OU NTC removal action objective (RAO) is to protect human health and the environment by reducing the mass of TCE in groundwater (USDOE 2018). The CAGW OU NTC RA will reduce TCE concentrations discharging to surface water and support the final remedial action for the CAGW OU. There is no current or projected future use of groundwater or surface water as a drinking water source at the CAGW OU, and site access is currently controlled by SRS facility security and administrative controls. Site specific land use controls are expected to be part of the final remedial action for the CAGW OU.

As stated in the Removal Action Design Plan (RADP) (SRNS 2018a), the selected NTC RA for the CAGW OU groundwater TCE plume consisted of injecting an emulsified oil mixture and bioaugmentation supplement along two transects to create two treatment barriers in the MAZ perpendicular to the groundwater flow (Figure 3). The design is for emulsified oil to sequester TCE, create an anoxic zone, and then *Dehalococcoides* to biodegrade TCE within the barriers. This is in addition to other MNA mechanisms (e.g., sorption, volatilization, diffusion, dilution, dispersion, and decay). Fifteen DPT injection points are used to create two treatment barriers (Figure 3): 5 injection points approximately 20.2 to 23.2 m (66 to 76 ft) below ground surface (bgs) and 10 injection points approximately 10.1 to 13.1 m (33 to 43 ft) bgs in the distal portion of the groundwater plume location. Each injection is within a 3.05 m (10 ft) section of the MAZ where the groundwater TCE contamination is present. The groundwater is augmented with 2 liters

(L) (0.528 gallons [gal]) of unconcentrated EOS Bioaugmentation Culture (BAC-9), an enriched bioaugmentation culture of *Dehalococcoides mccartyi* and enzymes in a water-based medium, known to biodegrade TCE. The emulsified oil mixture consisted of EOS100™ emulsified oil, dilution water with a dechlorination agent (ascorbic acid), and a buffer (EOS CoBupHMg™) to raise the groundwater pH to approximately 7. After half of the emulsified oil mixture was injected at a location, then 2 L (0.528 gal) of unconcentrated EOS BAC-9 was injected, then the 2nd half of the oil mixture, followed by 151 L (40 gal) of EOS CoBupHMg™ mixed with 757 L (200 gal) of water, and finally 1,135 L (300 gal) of chase water.

2.2 CAGW OU Boundary and Monitoring Network

SRS has identified the area in which groundwater contamination exceeds applicable MCLs and developed a boundary for the CAGW OU. The CAGW OU boundary (Figure 2) encompasses the groundwater exceeding tritium and/or TCE MCLs from C-Area west to FMB and south to Castor Creek. The CAGW OU boundary comprises approximately 3.28 square kilometers (km²) (811 acres). The TCE groundwater plume covers an area of approximately 0.48 km² (119 acres). The NTC RA treatment barriers address the distal portion of the TCE groundwater plume along a linear area of 357 m² (3,840 ft²) prior to discharging into an unnamed tributary to Castor Creek (Figure 3). The total treatment area from the NTC RA treatment barriers to the unnamed tributary is approximately 12,000 m² (2.97 acres).

As outlined in the RADP with Effectiveness Monitoring Plan (EMP) (SRNS 2018a), the monitoring network at CAGW OU includes five primary monitoring wells (CRW23C, CRW024C, CRW026C, CRW027C, and CRW028C) and four primary surface water stations (CCT-01, CCT-02, CCT-03, and CC-08) (Figure 3). In 2022, two additional primary monitoring wells (CRW029C and CRW030C) were installed within each transect of the two emulsified oil biobarriers in the subsurface (Figure 4). Wells CRW029C and CRW030C will identify conditions within each injection zone approximately three years after injections. In addition, there are nine peripheral monitoring stations: three monitoring wells (CSB 15D, CSB020C, and CRW025C), four seepage stations (CCSL-08, CCSL-11, CCSL-14, and CCSL-23R) and two surface water stations (CC-05 and CC-07). These peripheral stations are monitored to determine if there are changes in groundwater quality outside the treatment area. Analyses include the following: VOCs

(tetrachloroethylene [PCE], TCE, cis-1,2-dichloroethylene (cis-1-2-DCE), chloroethene [vinyl chloride (VC)], and ethene), pH, dissolved oxygen (DO), methane, nitrate, oxidation-reduction potential (ORP), sulfate, and total organic carbon (TOC) to identify the effects of the edible oil injections. Results for pH, DO, methane, nitrate, ORP, sulfate, and TOC are used to assess the conditions favorable for anaerobic biodegradation as a result of emulsified oil injections in an aquifer. The PCE, TCE, cis-1-2-DCE, VC, and ethylene results are used to observe reductive dechlorination. Semi-quantitative microbiological analyses are conducted at applicable well locations to supplement the assessment of reductive biological processes, as well as aerobic biological processes.

3.0 SITE HYDROGEOLOGY

3.1 Physiographic Setting

The CAGW OU boundary extends west and south of C-Area (Figure 1). It is located on a broad, convex ridge within the FMB watershed. Local relief ranges from 89.9 m (295 ft) above mean sea level (amsl) to 48.2 m (158 ft) amsl along FMB and 48.8 m (160 ft) along Castor Creek. The ground surface slopes gently to the west from the C-Area to FMB and Castor Creek, though during reactor operations the reactor discharge water eroded Castor Creek downward approximately 4.6 to 6.1 m (15 to 20 ft). FMB discharges into the Savannah River floodplain and associated swamps about 8 miles (mi) downstream from its confluence with Castor Creek.

3.2 Hydrogeologic Setting

A detailed description of the hydrostratigraphic units relevant to the CAGW OU can be found in the Resource Conservation and Recovery Act (RCRA) Facility Investigation/Remedial Investigation report (WSRC 2004).

The 30-year (yr) average (1990 - 2021) rainfall for SRS is 120.3 centimeters per year (cm/yr) (47.36 inches per year [in/yr]), based on data from the 773-A rain gauge (SRNL 2022). The average annual rainfall since SRS began collecting data (1952 - 2019) is 122.3 cm/yr (48.14 in/yr) (SRNL 2020). In 2021, SRS received 131.2 cm (51.66 in) of rainfall (SRNL 2022). In 2021, C-Area received 117.2 cm (46.13 in) of rainfall, and from January 1 to June 30, 2022, C-Area has received

55.17 cm (21.72 in), based on data from the C-Area rain gauge. The annual average groundwater recharge is estimated at 31.75 cm/yr (12.5 in/yr), while the remainder is lost to evapotranspiration or run-off to surface water (WSRC 2003).

The Floridan aquifer system is the aquifer system of concern within the CAGW OU area. The system is divided into two aquifer units separated by a confining unit. From top to bottom, they are known as the Upper Three Runs Aquifer (UTRA), the Gordon Confining Unit (GCU), and the Gordon Aquifer Unit (GAU). The UTRA occurs between the water table surface and the GCU. The UTRA is divided into three aquifer zones: The Upper Aquifer Zone (UAZ); the MAZ; and the Lower Aquifer Zone (LAZ). The UAZ and LAZ are divided by an informal aquitard referred to as the “Tan Clay Confining Zone” (TCCZ). The MAZ resides as a sand to silty-sand to clayey-silty-sand zone between the Tan Clay Upper Clay (TCUC) and Tan Clay Lower Clay (TCLC) layers of the TCCZ (Figure 5). The MAZ is the target of the NTC RA in the distal portion of the TCE plume and consists of a permeable sand to silty-sand in that area. While the hydraulic conductivities vary within each of the aquifer zones, the overall average groundwater velocity is 70 feet per year (ft/yr) for the UTRA between C-Area and the points of discharge along FMB and Castor Creek (WSRC 2001).

The Conceptual Site Model (CSM) for the CAGW OU TCE plume resulted from a vadose zone VOC source area south of the C-Reactor Assembly Area that was depleted by electrical resistance heating and soil vapor extraction (ERH-SVE) in 2006. TCE is then transported in the UAZ towards Castor Creek. Particle track analysis indicates it takes between 20 and 35 years for groundwater in C-Area to reach points of discharge along Castor Creek (WSRC 2001). As TCE is transported from C-Area to the point of discharge, the plume descends into the MAZ, and attenuation decreases the concentration of TCE in the groundwater during transport. Very little biodegradation occurs during transport from C-Area to Castor Creek, rather the CSM considers biodegradation to occur only at the wetland areas along Castor Creek as the TCE plume is discharging through the organic rich sediments. The CAGW OU NTC RA was designed to augment biodegradation in the MAZ before groundwater discharges into an unnamed tributary to Castor Creek (Figure 6).

4.0 MONITORING AND REPORTING

4.1 Groundwater Monitoring Well Network

Monitoring results are discussed in text and presented in the appendices. Appendix A tabulates monitoring data from July 2021 to June 2022 for all wells in the CAGW OU NTC RA monitoring network. Appendix B presents hydrographs of water levels at the CAGW OU NTC RA monitoring points since 2000. Appendix C consists of time-series plots of VOCs at the CAGW OU NTC RA monitoring points since 2000. Appendix D contains plume maps with 4Q21 TCE concentrations depicted and includes all the CAGW OU monitoring stations. Appendix E contains the potentiometric surface maps for the various aquifers for the 4Q21 using all the CAGW OU monitoring stations. Appendix F contains all the broader CAGW OU monitoring data.

4.1.1 CAGW NTC RA Groundwater Monitoring Well Network

The CAGW OU NTC RA start date was on July 10, 2019, all injection activities ended on August 12, 2019, and sampling of the CAGW OU NTC RA monitoring network began in November 2019. The sampling schedule for monitoring wells, seepage stations, and surface water stations was established in the RADP with EMP (SRNS 2018a) as shown in Table 1.

The CAGW OU NTC RA monitoring network now includes a total of 20 monitoring stations (10 wells, 4 seepage stations, and 6 surface water stations). The 4Q21 TCE concentrations for the CAGW OU NTC RA are depicted in Figure 4. Monitoring data from the 20 primary and peripheral effectiveness monitoring stations are used to assess the effectiveness of the CAGW OU NTC RA treatment barriers on TCE groundwater concentrations. The effectiveness monitoring network overall is designed to verify the attainment of the CAGW OU NTC RA objectives.

In April through June of 2019, three rounds of baseline sampling were conducted on then nine primary stations (CRW023C, CRW024C, CRW026C, CRW027C, CRW028C, CCT-01, CCT-02, CCT-03, and CC-08), and one round of sampling was conducted on the nine peripheral stations (CRW025C, CSB 15D, CSB020C, CCSL-08, CCSL-11, CCSL-14, CCSL-23R, CC-05, and CC-07). In October through December 2019, the first round of effectiveness monitoring sampling was conducted on the same nine primary stations, which consisted of three monthly samples. However, because the BioTrap samples, which provide DNA evidence of microbial populations

in the subsurface, require a 30-day deployment period, the actual sample collection occurred one month later (November, December, and January). In November 2019, one round of sampling was conducted on the nine peripheral stations. In 2020, effectiveness monitoring quarterly samples were collected in February, June, September, and December for the nine primary stations. In June and December 2020, semi-annual effectiveness monitoring samples were collected at the nine peripheral stations. In 2021, the first semi-annual samples were collected in June for the nine primary stations and the nine peripheral stations, and the second semi-annual samples were collected in November 2021. In 2022, the first semi-annual samples were collected in June for the now 11 primary stations and the 9 peripheral stations, and the second semi-annual samples will be collected in December 2022.

4.1.2 CAGW OU Groundwater Monitoring Well Network

The CAGW OU monitoring network includes an additional 62 monitoring stations (48 wells, 4 seepage stations, and 10 surface water stations) (Figure 7), which were sampled annually for VOC and tritium analyses in 2021. In 2022, the CAGW OU multi-level (ML) monitoring wells, monitoring wells, and seepage stations will be sampled annually, while the surface water stations will be sampled semi-annually. ML monitoring wells have two or three screen zones that are isolated from each other and have two or three 1-inch PVC risers within a 4-inch PVC casing to each screen zone for sampling. The overall CAGW OU monitoring network is used to evaluate if the tritium and VOC plumes are contracting or expanding in the UTRA, and attenuation over time as the plumes travel from the source areas to the points of discharge (Figure 2).

4.2 Groundwater Elevation Measurements and Groundwater Flow Direction

Historic groundwater elevations, extending from 2000 to present, are displayed as hydrographs in Appendix B. Potentiometric surfaces for December 2020 are mapped for each aquifer (Appendix E).

Within the CAGW OU boundary, groundwater in the UTRA flows west from C-Area OU toward FMB and south toward Castor Creek (Appendix E). Water elevations in the UAZ within C-Area at long-term water table wells (CDB 1, CDB 2, and CDB003D) have been rising since historic

lows in 2012 up to 216.55 ft-amsl in 2020, but recently decreasing to 211.58 ft-amsl in December 2021 (Figure 8). Groundwater within the GAU flows west toward FMB.

Within the CAGW OU NTC RA area, the top of the water table is within the MAZ and groundwater discharges towards the unnamed tributary to Castor Creek and to Castor Creek (Figure 3). Water elevations in MAZ background wells CSB 15D and CSB020C, side-gradient to the CAGW OU NTC RA areas, have also been rising since 2012, up to 181.47 ft-amsl in June 2020 at CSB020C. Since June 2020 water elevations have been decreasing with the June 2022 MAZ water elevations ranging between 168.25 ft-amsl at CRW026C near the unnamed tributary and 178.04 ft-amsl at CSB020C along road 3 (Figure 9).

4.3 Groundwater Sampling and Analyses

4.3.1 CAGW OU NTC RA Groundwater Sampling and Analyses

Per the EMP (SRNS 2018a), monitoring station samples are analyzed for 14 laboratory constituents:

- 1,2-dichloroethylene
- chloride
- cis-1,2-dichloroethylene
- ethylene
- methane
- microbial population counts
- nitrate
- sulfate
- tetrachloroethylene
- Total Organic Carbon
- trans-1,2-dichloroethylene
- trichloroethylene
- tritium
- vinyl chloride

Per the EMP (SRNS 2018a), monitoring well samples are analyzed for eight field constituents:

- oxidation/reduction potential
- oxygen
- pH
- conductivity
- alkalinity
- turbidity
- water temperature
- depth to water (wells)

Tritium is not part of the CAGW OU NTC RA, but it is an important constituent in the overall CAGW OU. The sampling frequency for all effectiveness monitoring stations and analyses is provided in Table 1. Sample results are evaluated to determine if biodegradation is increasing

within the RA area. The concentrations of the VOC constituents are also compared to the respective MCLs (Table 2).

CRW024C and CRW023C were installed slightly up-gradient of Oil Injection Area 1 and Area 2, respectively (Figure 3). Field and laboratory data indicate the oil injections have impacted these wells, therefore CRW023C and CRW024C are included with the down-gradient primary wells for data evaluation. Monitoring wells (CRW026C through CRW030C) within and down-gradient of injection areas are expected to have TCE groundwater concentrations decreasing below 5 µg/L over a 3- to 5-year period. An increase in TCE biodegradation products (e.g., cis-1,2-DCE, VC, and ethylene) and chloride may also be observed at the down-gradient wells over a 3- to 5-year period. Changes in field measurements, such as increasing pH, methane, and alkalinity with decreasing oxygen and ORP, indicate conditions favorable for TCE biodegradation and are expected to be observed over a 3- to 5-year period. Microbial counts, especially of anaerobic bacteria, are also expected to increase in the groundwater samples over a 3- to 5-year period.

Methane is an indication of anaerobic conditions, but methane has also been shown to stimulate indigenous aerobic microbes that can (co)metabolize TCE (Hazen 2010). (Co)Metabolism is the process by which a contaminant (e.g., TCE) is fortuitously degraded by an enzyme or cofactor produced during microbial metabolism of another compound (e.g., methane). The aerobic (co)metabolic microbes are dependent upon enzymes (e.g., methane monooxygenase, toluene dioxygenase, toluene monooxygenase, and ammonia monooxygenase) to biodegrade chlorinated VOCs (Hazen 2010). These enzymes are extremely strong oxidizers (e.g., methane monooxygenase is known to degrade over 300 different compounds) (Hazen 2010). Soluble methane monooxygenase (sMMO) induces the formation of TCE-epoxide from TCE (Hazen 2010). All of the TCE-epoxide daughter compounds are either unstable or small and easily metabolizable compounds, thus making the almost immediate end products, carbon dioxide and chloride salts (Hazen 2010).

4.3.2 CAGW OU Groundwater Sampling and Analyses

The routine CAGW OU monitoring station samples are analyzed for the following laboratory constituents:

- 1,2-dichloroethylene
- cis-1,2-dichloroethylene
- tetrachloroethylene
- total petroleum hydrocarbons (TPH)*
- trans-1,2-dichloroethylene
- trichloroethylene
- tritium
- vinyl chloride

* Only well CRW022D samples are analyzed for TPH diesel range organics, as it monitors a remediated diesel storage tank site.

The routine CAGW OU monitoring stations receive the following field measurements:

- oxidation/reduction potential*
- dissolved oxygen*
- pH
- conductivity
- alkalinity
- turbidity
- water temperature
- depth to water (Wells)

* Only measured at seepage stations

The sampling and analysis frequency for the CAGW OU monitoring stations is annual with semi-annual sampling for 13 wells, seepage stations, and surface water stations. Sample results are evaluated to determine overall long-term trends for the tritium and TCE plumes.

4.4 Groundwater and Surface Water Results

All prescribed effectiveness monitoring samples were successfully collected in 2021-2022. Appendix A provides the results for all the CAGW OU NTC RA groundwater and surface water sampling. Appendix C provides time-series plots for the CAGW OU NTC RA stations for the VOCs, and tritium is included as it is a CAGW OU contaminant of concern. TCE groundwater concentrations up-gradient of the CAGW OU NTC RA have remained elevated at CRW024C, installed up-gradient of CAGW OU Oil Injection Area 1 (Figure 4 and Appendix A). Since June 2020, TCE concentrations have decreased slightly at six of the CAGW OU NTC RA primary effectiveness monitoring stations (CRW023C, CRW026C, CCT-01, CCT-02, CCT-03, and CC-08) (Appendix A, Figure 4 and Figure 10). Two notable exceptions are wells CRW027C and CRW028C, which have increasing TCE trends since June 2020 (Figure 10). Only TCE and tritium exceeded MCLs in groundwater samples collected during the 2021-2022 sampling period.

Appendix D consists of plume maps showing TCE concentrations in groundwater and surface water for 4Q21, as this is the quarter when the most wells are sampled. Other VOC contaminants associated with CAGW OU NTC RA are not included in Appendix D because they 1) generally coincide with the TCE contamination; 2) are below MCLs; and 3) behave similarly in groundwater as TCE.

TCE and tritium concentrations in groundwater for the overall CAGW OU during 2021-2022 generally continued long-term decreasing trends. In 4Q21, at wells CRW020D and CRW021DR, TCE groundwater concentrations (153 µg/L and 41.4 µg/L, respectively) indicate a small area above 100 µg/L near the C-Area Reactor Building (105-C) in the UAZ of the UTRA (Figure 2). In 2Q22, CSB 15D and CSB020C groundwater TCE concentrations (38.4 µg/L and 24.3 µg/L, respectively) exceeded the TCE MCL (5 µg/L). Background wells CSB 15D and CSB020C are located at the distal portion of the plume side-gradient to the CAGW OU NTC RA areas in the MAZ of the UTRA. CSB 15D and CSB020C are located within the MAZ TCE plume in a portion that is not impacted by the NTC RA and therefore provide background data for comparison. In the middle portion of the CAGW OU TCE plume, lower levels of VOC contamination are present (Appendix D). Results from samples of the unnamed tributary to Castor Creek indicated elevated levels of TCE and tritium (Appendix A). Sample results for specific constituents are described below for both the CAGW OU NTC RA effectiveness monitoring stations and the overall CAGW OU monitoring stations.

4.4.1 CAGW OUNTCRA

4.4.1.1 Trichloroethylene

Wells CRW023C and CRW024C are slightly upgradient of the oil injection areas, but field and laboratory data indicate the oil injections have impacted these wells, therefore these wells are included with the down-gradient wells for data evaluation. Wells CRW029C and CRW030C are included in the 2022 average calculations for TCE concentrations within the RA areas, in order to provide the best current estimate of groundwater TCE concentrations.

In 2019, the maximum baseline TCE groundwater concentration was 41.3 µg/L at well CSB 15D for the 18 CAGW OU NTC RA effectiveness monitoring stations. In 4Q21, the maximum TCE

result was 36.8 µg/L at well CSB 15D for the 18 CAGW OU NTC RA effectiveness monitoring stations. In 2Q22, the maximum TCE result was 38.4 µg/L at well CSB 15D for the 18 CAGW OU NTC RA effectiveness monitoring stations.

At primary groundwater monitoring well CRW024C, TCE concentrations have decreased but remain above the MCL with a June 2022 detection of 10.9 µg/L (Figure 10). The 4Q21 and 2Q22 maximum groundwater concentrations still exceed the MCL (5 µg/L), but the groundwater TCE concentrations slightly decreased at background wells CSB 15D and CSB020C in 2022 (Figure 11). Well CRW023C also had decreasing TCE groundwater concentrations in 4Q21 and 2Q22 (Figure 10). TCE sample concentrations exceeded the MCL at 12 of the 20 monitoring stations during the 2021-2022 sampling period, including the 2 new wells (CRW029C and CRW030C). Two of the three surface water stations (CCT-01 and CCT-03) in the unnamed tributary had TCE concentrations exceeding the MCL, and in 2022 all three stations had similar TCE concentrations as in 2021 (Figure 10). The MAZ and surface water body within the CAGW OU NTC RA portion of the TCE plume is discussed in detail below.

Middle Aquifer Zone (MAZ)

TCE concentrations for MAZ stations are shown in Appendix A, Appendix C (C-104 to C-107; C-111 to C-120) and Appendix F, while the TCE plume for the combined UAZ-MAZ is depicted in Appendix D, Figure D-1.

The CAGW OU NTC RA targeted TCE contamination in the MAZ before groundwater discharges to an unnamed tributary to Castor Creek. All 20 CAGW OU NTC RA monitoring stations are screened in the MAZ or monitor surface water receiving groundwater discharge from the MAZ. In 4Q21 and 2Q22, CAGW OU NTC RA monitoring well CSB 15D had the highest TCE groundwater concentrations (36.8 µg/L and 38.4 µg/L, respectively), which exceed the MCL (5 µg/L) but these TCE concentrations are a slight decrease from June 2021. Wells CRW024C and CRW023C are slightly up-gradient of injection Areas 1 and 2, respectively, but have shown some changes from the CAGW OU NTC RA. Groundwater at these wells had decreasing groundwater TCE concentrations in 2Q22. Down-gradient well CRW026C had decreasing groundwater TCE concentrations since June 2020. However, down-gradient wells CRW027C and

CRW028C had increasing groundwater TCE concentrations since June 2020 (Figure 10). The overall average groundwater concentrations within the CAGW OU NTC RA treatment area have decreased relative to the 2019 baseline conditions. In June 2022, the average TCE concentration for the seven primary groundwater monitoring wells (CRW023C, CRW024C, CRW026C, CRW027C, CRW028C, CRW029C, and CRW030C) was 8.80 µg/L, which is about a 28% decrease from the June 2019 average TCE concentration (12.32 µg/L) for the five primary groundwater monitoring wells (CRW023C, CRW024C, CRW026C, CRW027C, and CRW028C) (Figure 12). In contrast, the two background wells, CSB 15D and CSB020C, which are assumed to be unimpacted by the CAGW OU NTC RA, only decreased to 31.35 µg/L (June 2022 average) from the June 2019 baseline average (33.6 µg/L), or about 6.7% (Figure 12). The difference in TCE reduction between the primary groundwater monitoring wells and the background monitoring wells is an indication the CAGW OU NTC RA has helped to reduce TCE concentrations in the MAZ through a combination of TCE sequestration by the emulsified oil, anaerobic biodegradation, and aerobic (co)metabolism. This is in addition to other MNA mechanisms (e.g., sorption, volatilization, diffusion, dilution, dispersion, decay), which occur during TCE transport in the subsurface.

Surface Water

Six surface water stations are part of the CAGW OU NTC RA monitoring network: CCT-01, CCT-02, CCT-03, CC-05, CC-07, and CC-08. The three surface water stations (CCT-01, CCT-02, and CCT-03) monitoring the unnamed tributary had surface water TCE concentrations ranging from 3.62 µg/L to 6.09 µg/L in June 2022, and all three monitoring stations had similar TCE concentrations in 2021 (Figure 10). Comparing the June 2019 average TCE concentration (7.80 µg/L) for the tributary stations (CCT-01, CCT-02, and CCT-03) to the June 2022 average TCE concentration (5.12 µg/L) for the same three stations indicates about a 34% reduction in TCE concentrations in the tributary (Figure 12). The difference in TCE reduction between the primary surface water stations and the background monitoring wells is consistent with the MAZ well data and an indication the CAGW OU NTC RA has helped to reduce TCE concentrations in the MAZ through a combination of TCE sequestration by the emulsified oil, anaerobic biodegradation, and aerobic (co)metabolism. This is in addition to other MNA mechanisms (e.g., sorption,

volatilization, diffusion, dilution, dispersion, decay), which occur during TCE transport in the subsurface.

The three surface water stations (CC-05, CC-07, and CC-08) monitoring Castor Creek had surface water TCE concentrations ranging from 0.84 µg/L to 0.93 µg/L in June 2022, and all three monitoring stations had slightly decreasing TCE concentrations since June 2021 (Figure 11).

Surface water data are tabulated in Appendix A, and the December 2021 TCE plume data are shown in Appendix D (Figure D-1).

4.4.1.2 Tetrachloroethylene

PCE is a minor component of the CAGW OU VOC groundwater plume, which has not exceeded the MCL (5 µg/L) at any CAGW OU monitoring station since 2006, before the implementation of the ERH-SVE system. In 2022, for the 20 CAGW OU NTC RA effectiveness monitoring stations, the maximum PCE result was 0.86 µg/L at new well CRW030C. In 2022, for the broader CAGW OU monitoring network, the maximum PCE result was 1.46 µg/L at surface water station CC-06. For 4Q21 and 2Q22, the maximum PCE concentrations for all stations were below the MCL (5 µg/L). In 4Q21 and 2Q22, all CAGW OU NTC RA surface water stations monitoring the unnamed tributary and Castor Creek had samples with PCE concentrations below the detection limits.

4.4.1.3 Cis-1,2-Dichloroethylene

Between June 2021 and June 2022, cis-1,2-DCE was detected in two CAGW OU NTC RA seep line stations (CCSL-08 and CCSL-11), one monitoring well (CRW027C), and two surface water stations (CCT-02 and CCT-03) monitoring the unnamed tributary. No sample concentration exceeded the cis-1,2-DCE MCL (70 µg/L), with a maximum concentration of 1.82 µg/L in the 2Q22 sample from seep line station CCSL-11. The CAGW OU NTC RA was expected to increase cis-1,2-DCE concentrations in monitoring wells (CRW026C, CRW027C, and CRW028C) down-gradient of Injection Areas 1 and 2 from the biodegradation of TCE, but this hasn't been observed. In 2Q22, new wells CRW029C and CRW030C did not have detectable concentrations of cis-1,2-DCE. Cis-1,2-DCE may be below detection limits at the down-gradient wells because cis-1,2-DCE is being (co)metabolized by aerobic microbes, based on the presence of toluene

monooxygenase, toluene monooxygenase 2 and phenol hydroxylase, sMMO, and toluene dioxygenase enzymes in the BioTrap data (Figure 13) (Atashgahi 2017 and Hazen 2010). Cis-1,2-DCE and VC oxidation has also been observed in the presence of humic acid under sulphate-reducing and methanogenic conditions (Dolinova 2017). It also appears anaerobic reductive dechlorination by the CAGW OU NTC RA is not as extensive as anticipated by SRS, and not as much cis-1,2-DCE was produced by the RA. The 4Q21 and 2Q22 cis-1,2-DCE data are tabulated in Appendix A.

4.4.1.4 Vinyl Chloride

During the 4Q21 and 2Q22 sampling period, VC was not detected in any of the CAGW OU NTC RA monitoring stations, or in any of the CAGW OU monitoring stations, which is consistent with previous years. The CAGW OU NTC RA was expected to increase VC concentrations in monitoring wells (CRW026C, CRW027C, and CRW028C) down-gradient of Injection Areas 1 and 2 from the biodegradation of TCE, but this hasn't been observed. In 2Q22, new wells CRW029C and CRW030C did not have detectable concentrations of VC. VC may be below detection limits at the down-gradient wells because cis-1,2-DCE and VC are being (co)metabolized by aerobic microbes, based on the presence of toluene monooxygenase 2 and phenol hydroxylase enzymes in the BioTrap data (Atashgahi 2017 and Hazen 2010). Cis-1,2-DCE and VC oxidation has also been observed in the presence of humic acid under sulphate-reducing and methanogenic conditions (Dolinova 2017). It also appears anaerobic reductive dechlorination by the CAGW OU NTC RA is not as extensive as anticipated by SRS, and not as much VC was produced by the RA. The 4Q21 and 2Q22 VC data are tabulated in Appendix A and Appendix F.

4.4.1.5 Ethylene

During the 4Q21 and 2Q22 sampling period, ethylene was not detected at any CAGW OU NTC RA monitoring stations. During the 4Q19 and 1Q20 sampling periods, ethylene was detected at low levels (<1.0 µg/L) in the five wells nearest the injection areas (CRW023C, CRW024C, CRW026C, CRW027C, and CRW028C) (Figure 14). Laboratory problems led to elevated ethylene method detection limits (MDLs) for all samples collected from 2Q20 through 2Q22, which rendered the results of little or no value. In 2Q22, new wells CRW029C and CRW030C

did not have detectable concentrations of ethylene. The initial ethylene data are an indication that complete anaerobic biodegradation of TCE did occur, including biodegradation of VC, within portions of the injection areas.

Similarly, during the 4Q19-1Q20 sampling period, low concentrations (<1.00 µg/L) of ethylene were detected in four surface water stations (CCT-01, CCT-02, CCT-03, and CC-08), which receive groundwater discharge from the MAZ treated by the CAGW OU NTC RA. All the detectable results occurred in the December 2019, January 2020, and February 2020 samples, and none of the previous samples from these surface water stations had detectable levels of ethylene. These ethylene data are an indication biodegradation did, and may still, occur within portions of the injection areas. SRS is working with the laboratories to develop a method with lower ethylene MDLs. There is no MCL for ethylene, as it is considered a harmless compound. The ethylene data are tabulated in Appendix A.

4.4.1.6 Methane

Methanogenesis indicates anaerobic conditions exist in portions of the TCE plume and these anaerobic conditions may be favorable to the biodegradation of TCE. Methanogens also produce methane monooxygenases capable of (co)metabolism of TCE, and methane in groundwater down-gradient of anaerobic areas can stimulate indigenous aerobic microbes that are capable of (co)metabolism of TCE, cis-1,2-DCE and VC (Hazen 2010). A large increase in groundwater methane concentrations, up to 709 µg/L in November 2021 and 1,090 µg/L in June 2022, was observed at well CRW026C in the post RA samples. A smaller increase in methane concentrations was observed at CRW023C, and all the CRW023C and CRW026C baseline samples were below the detection limits for methane (Figure 15 and Figure 16). During the 4Q21 and 2Q22 sampling periods, methane was detected (19.3 to 126 µg/L) in the post-RA samples in three other stations (CRW023C, CCT-01, and CCT-03) near the injection areas. All the detectable results in monitoring wells (CRW023C, CRW024C, CRW026C, CRW027C, and CRW028C) occurred after the completion of the RA, and none of the groundwater samples prior to the CAGW OU NTC RA from these wells had detectable levels of methane. In 2Q22, new wells CRW029C and CRW030C did not have detectable concentrations of methane. The presence of methane above background concentrations in areas with chlorinated solvents is an indication that the groundwater geochemical

conditions are favorable for anaerobic reductive dechlorination, and stable methane concentrations over three sample events (e.g., CRW026C) indicate more optimal conditions for anaerobic biodegradation (USAF 2007).

During the 4Q21 and 2Q22 sampling periods, methane was detected in five surface water stations (CC-05, CC-07, CC-08, CCT-01, and CCT-03), which receive groundwater discharge from the MAZ treated by the CAGW OU NTC RA. An increase in methane concentrations is observed in the post-RA samples, up to 126 µg/L at CCT-01 in 2Q22, which receives more groundwater from the MAZ. Station CCT-03 is located furthest upstream in a heavily vegetated portion of the wetland and historically had the highest levels of methane. The average methane concentration of five pre-RA samples from station CCT-003 was 9.84 µg/L, which is less than the post-RA average for nine samples (15.2 µg/L) but may indicate that wetland areas of the CAGW OU NTC RA may be more conducive to anaerobic reductive dechlorination.

During the 4Q20 to 2Q21 sampling period, a large variation in methane concentrations has been observed at seepage station CCSL-23R. Methane concentrations at CCSL-23R increased from a minimum of 6.20 µg/L in October 2018 to 133 µg/L in June 2021, but methane concentrations have declined to 10.2 µg/L in November 2021 and below detection in June 2022. CCSL-23R is the farthest seepage station from the CAGW OU NTC RA areas, so it is likely the variation in methane is from natural origins.

The increase in methane concentrations at some stations indicates conditions are more favorable for anaerobic TCE biodegradation in some areas within the RA area, and aerobic (co)metabolism of TCE in down-gradient areas is aided by methane monooxygenase produced by the methanogens. The methane data are tabulated in Appendix A.

4.4.1.7 Chloride, Nitrate and Sulfate

Chloride groundwater concentrations are expected to increase in areas where reductive dechlorination of TCE is occurring due to microbes. The average chloride concentration of five baseline samples from station CRW023C is 1.90 mg/L, while the post-RA average for nine samples is 2.13 mg/L. The average chloride concentration of four baseline samples from station CRW026C is 1.79 mg/L, while the post-RA average for nine samples is 2.18 mg/L. Wells

CRW023C and CRW026C baseline and post-RA chloride samples indicate a possible increase in reductive dechlorination of TCE within the emulsified oil biobarrier (Figure 15 and Figure 16). While TCE groundwater concentrations initially increased at both wells, TCE groundwater concentrations have been decreasing at both CRW023C and CRW26C since June 2020 (Figure 10). In 2Q22, new wells CRW029C and CRW030C had chloride concentrations of 1.76 mg/L and 2.03 mg/L, respectively. Alternatively, fluctuations in chloride concentrations could be from natural groundwater variations or an artifact of the initial injections, because even complete dechlorination of all the TCE would only amount to a small increase in chloride concentrations, which may not be measurable.

High nitrate groundwater concentrations may interfere with the reductive dechlorination pathway. Two monitoring wells (CRW023C and CRW26C) indicated a reduction in nitrate concentrations (Figure 15 and Figure 16). The average nitrate concentration of four baseline samples from station CRW023C is 1.53 mg/L, while the post-RA average for nine samples is 1.14 mg/L. The average nitrate concentration of three baseline samples from station CRW026C is 1.33 mg/L, while the post-RA average for five samples is 0.328 mg/L. These wells may indicate some portions of the injection areas are anaerobic and more conducive to reductive dechlorination of TCE. CRW028C is the only other monitoring station indicating a slight decrease in the nitrate groundwater concentrations in the post-RA samples. In 2Q22, new wells CRW029C and CRW030C had relatively low nitrate concentrations of 1.08 mg/L and 1.30 mg/L, respectively, indicating a more anoxic environment locally.

High sulfate groundwater concentrations may interfere with the reductive dechlorination pathway, but some geochemical settings with elevated sulfate concentrations can also be favorable for reductive dechlorination of TCE (Mao 2017). Two monitoring wells (CRW023C and CRW26C) indicated an increase in sulfate concentrations during the first year of monitoring but more recently have decreasing sulfate concentrations (Figure 15 and Figure 16), approaching baseline conditions. In 2Q22, new wells CRW029C and CRW030C had relatively low sulfate concentrations of 0.67 mg/L and 0.37 mg/L, respectively, similar to other wells. No other monitoring stations indicated a change in the sulfate groundwater concentrations in the post-RA samples.

4.4.1.8 Total Organic Carbon (TOC)

TOC is used as an indicator of the amount of emulsified oil in the groundwater, as groundwater within the CAGW OU tends to have very little (<1 mg/L) to no organic carbon. The emulsified oil depletes oxygen creating anoxic zones, the emulsified oil coats sediment grains and sequesters TCE as TCE readily dissolves into oil, more so than water. Wells CRW023C and CRW026C had a large increase in TOC in the December, January, and February 2019-2020 sample events but by the June 2020 sample event groundwater concentrations had decreased to baseline conditions (Figure 17). In late-2020, TOC groundwater concentrations increased to 3.652 mg/L at CRW026C, decreased to 2.544 mg/L in June 2021, and have remained elevated in 2022 (Figure 17). Elevated TOC concentrations at CRW026C promotes anaerobic conditions in the subsurface. None of the other monitoring wells showed a significant increase in TOC concentrations, and new wells CRW029C and CRW030C did not have detectable levels of TOC in 2Q22. It is possible CRW023C and CRW026C lie within a preferential pathway from the emulsified oil biobarriers, that the zone of influence from the biobarriers expanded temporarily and then contracted, or the overall zone of influence is smaller than anticipated by SRS.

Seepline stations CCSL-21R, CCSL-22R, and CCSL-23R have the highest groundwater TOC concentrations, which appear to be naturally occurring based on baseline conditions and distance from the RA areas (Figure 18). These three stations are in or near an organic-rich layer adjacent to Castor Creek.

Surface water stations CCT-01, CCT-02, and CCT-03 had increased TOC concentrations in late-2019 and early-2020, but TOC concentrations have been decreasing since mid-2020 (Figure 19). The elevated TOC concentrations were most likely from the oil injections but have returned to baseline conditions in 2021 and 2022.

4.4.1.9 BioTrap QuantArray-Chlor® Microbial Data

Quantification of Dehalococcoides, the only known bacterial group capable of complete reductive dechlorination of PCE and TCE to ethylene, has become an indispensable component of assessment, remedy selection, and performance monitoring at sites impacted by chlorinated solvents. The EOS Bioaugmentation Culture (BAC-9) is an enriched bioaugmentation culture of

Dehalococcoides mccartyi, which was included in the oil injections. While undeniably a key group of halo-respiring bacteria, Dehalococcoides are not the only bacteria of interest in the subsurface because reductive dechlorination is not the only potential biodegradation pathway operating at contaminated sites, and chlorinated ethenes are not always the primary contaminants of concern. The QuantArray®-Chlor analyses of the BioTraps not only includes a variety of halo-respiring bacteria (Dehalococcoides, Dehalobacter, Dehalogenimonas, etc.) to assess the potential for reductive dechlorination of chloroethenes, chloroethanes, chlorobenzenes, chlorophenols, and chloroform, but also provides quantification of functional genes involved in aerobic (co)metabolic pathways for biodegradation of chlorinated solvents and even competing biological processes.

BioTraps were installed in the seven primary monitoring wells (CRW023C, CRW024C, CRW026C, CRW027C, CRW028C, CRW029C, and CRW030C) and seven peripheral wells and seepage stations (CRW025C, CSB 15D, CSB020C, CCSL-08, CCSL-11, CCSL-14, and CCSL-23R). BioTraps remained in place a minimum of 30 days prior to collection for analyses. All of the QuantArray®-Chlor analysis data are in Table 4. Wells CRW023C and CRW026C showed the greatest increase in microbial activity, and the microbial count charts for CRW026C (November 2019 to June 2022) are depicted in Figures 20-29. For the five primary wells (CRW023C, CRW024C, CRW026C, CRW027C, and CRW028C) the microbial activities are depicted in Figures 30-34. Overall microbial activity increased at these wells from November 2019 through June 2021 and microbial activity decreased in the November 2021 and June 2022 BioTrap samples. New well CRW029C had elevated levels of sulfate reducing bacteria, Desulfuromonas spp. and total eubacteria, while new well CRW030C had elevated levels of Desulfitobacterium spp., Desulfuromonas spp., and total eubacteria. The presence of Desulfitobacterium spp. and Desulfuromonas spp. indicate anaerobic conditions exist near CRW029C and CRW030C. The June 2021 BioTrap data for CRW026C indicated an increase in the anaerobic microbial activity (Figure 27 and Figure 30) followed by decreasing microbial activity in 4Q21 and 2Q22 (Figure 29 and Figure 30). Dehalobacter, sulfate reducing bacteria, desulfitobacterium, and methanogens are the most abundant microbes observed at CRW026C (Figure 30), and these microbes are also capable of reductive dechlorination (Holliger 1998 and Islam 2021). Dehalococcoides had a slight increase in microbial activity at CRW026C in December 2019 (Figure 30), which coincided with the ethylene increase at CRW026C (Figure 16),

but it has been below detection since then. Similar trends for Dehalococcoides counts were observed at the other primary wells (CRW023C, CRW024C, CRW027C, and CRW028C). New wells CRW029C and CRW030C did not have detectable levels of Dehalococcoides. It appears the geochemical conditions for Dehalococcoides only existed for a brief time and in isolated areas. It is possible the conditions conducive to anaerobic microbial activity are more localized and temporary than originally anticipated by SRS.

Aerobic (co)metabolic microbial activity is indicated by detectable levels of phenol hydroxylase, sMMO, toluene monooxygenase, and toluene monooxygenase 2 on the BioTraps at nearly all monitoring wells (Figures 35 to 39). In contrast, the background wells (CSB 15D and CSB020C) had lower levels of the aerobic (co)metabolic enzymes (Figure 40 and Figure 41). New well CRW029C had elevated levels of phenol hydroxylase, toluene monooxygenase, toluene monooxygenase 2, and detectable toluene dioxygenase, while new well CRW030C had elevated levels of phenol hydroxylase, toluene monooxygenase, and toluene monooxygenase 2 (Table 4).

Bacteria (e.g., *Psuedomonas putida*, *Psuedomonas stutzeri* and *Burkholderia cepacia*), which produce toluene and phenol oxygenases, are associated with the (co)metabolism of TCE, DCE and VC, when TCE is at relatively low concentrations (<50 µg/L) (Cafaro 2004 and Wilson 2019). These bacteria can be present in the absence of petroleum products and are ubiquitous in the environment (Canada 2017 and Morya 2020). Methane increases in the aquifer can stimulate microbe activity, especially microbes associated with sMMO production (Hazen 2010). While aerobic (co)metabolism is a slower process than anaerobic biodegradation (Wilson 2019), it may explain the lack of cis-1,2-DCE and VC in the down-gradient wells. Aerobic (co)metabolism is not dependent on special geochemical conditions as the native microbes producing the enzymes are already acclimated to aquifer conditions (Hazen 2010).

4.4.1.10 Field Measurements

Groundwater field measurements for pH, DO, ORP, and total alkalinity help assess if the conditions within the CAGW OU NTC RA area are favorable for anaerobic biodegradation as a result of emulsified oil mixture injections. An increase in pH to between 7 and 9 and a decrease in DO to below 0.5 mg/L are the optimum conditions for microbial activity to degrade TCE (DOD

2006). Groundwater field measurements on samples from wells CRW023C and CRW026C indicate these conditions may exist in portions of the CAGW OU NTC RA area (Figure 42 and Figure 43). Though conditions are not optimal throughout the RA areas, in general as DO and ORP decrease and alkalinity and pH increase, anaerobic microbial activity tends to increase (Figure 42 and Figure 43). ORP and dissolved oxygen are very low in the groundwater at CRW026C, indicating anaerobic conditions currently exist at this location.

4.4.2 CAGW OU

4.4.2.1 Trichloroethylene

TCE is the major VOC contaminant in the CAGW OU VOC groundwater plume. In the overall CAGW OU monitoring network, the highest TCE groundwater concentration was 144 µg/L for the 2Q22 sample from monitoring well CRW020D. CRW020D monitors the TCE vadose zone remediated by ERH-SVE, and the historic maximum TCE groundwater concentration was 11,600 µg/L in November 2006 at CRW020D.

As TCE is the primary contaminant in the CAGW OU VOC plume, its occurrence can be used to delineate the physical extent of the total groundwater contaminant plume. The groundwater plume emanates south and westward from C-Area extending to Castor Creek and toward FMB (Figure 2). It is constrained vertically to the UTRA and can be found within all three aquifer zones of the UTRA. The 4Q21 TCE plume has not changed significantly in concentration or extent since reported in the 2018 CAGW OU RADP with an EMP (SRNS 2018a). The vadose zone VOC source area wells (CRW020D and CRW021DR) are continuing their long-term decline, indicating that the 2006 IROD activities south of C-Reactor were successful in cutting off the contamination pathway to groundwater. The aquifers and surface water bodies within the CAGW OU NTC RA portion of the TCE plume are discussed in detail below.

Upper Aquifer Zone (UAZ)

Analytical data for TCE in the UAZ are shown in Appendix F, and an UAZ-MAZ map is depicted in Appendix D, Figure D-1 (4Q21). There are no UAZ wells in the CAGW NTC RA monitoring network, rather all UAZ monitoring wells are in the broader CAGW OU monitoring network. The

4Q21 TCE plume emanates south and west from just south of the C-Reactor Assembly Area with the highest concentrations in wells CRW020D and CRW021DR, which are just down-gradient of the former vadose zone VOC source area. The TCE plume infiltrates into the LAZ at low concentrations, and presumably into the MAZ, as it moves down-gradient to CSB017B, which is just outside of the C-Area fence line. The TCE plume also descends from the UAZ into the MAZ as it nears Road 3 and before discharging into Castor Creek as indicated by several wells (CRW23C, CRW024C, CSB 15D, and CSB020C). The western portion of the TCE plume may eventually discharge into Twin Lakes and/or FMB, as indicated by the TCE concentrations observed at CRW010CU and CRW 10C (Appendix E, Figure E-2 and Figure E-3; and Appendix F, pages F-24 and F-25).

Middle Aquifer Zone (MAZ)

The mid-plume wells (CRW 4C, CRW 11D, CRW 15D, CRW010CU, CSB 3C, CSB 12D, CSB011C, and CSB019C) in the MAZ show slowly decreasing TCE groundwater concentrations in 4Q21 relative to historic highs or remain below the MCL. The distal-plume stations are within the CAGW OU NTC RA area and are discussed in section 4.4.1.1.

Lower Aquifer Zone (LAZ)

In 4Q21, TCE was present at concentrations exceeding the MCL (5 µg/L) in 2 wells (CRW 10C and CSB017B) of the 11 CAGW OU monitoring wells screened in the LAZ. In November 2021, the CRW 10C and CSB017B groundwater TCE concentrations were 9.95 µg/L and 6.65 µg/L, respectively. These two wells monitor the portion of the CAGW OU TCE plume moving west towards Twin Lakes and FMB. Near Castor Creek, two LAZ wells (CSB020B and CSL001) had groundwater TCE concentrations that were below detection limits in 2020 and 2021. The data for the LAZ are tabulated in Appendix A and Appendix F, while the map in Appendix D depicts the LAZ TCE plume (Figure D-2).

Gordon Aquifer (GA)

There are 10 wells screened in the GA as part of the broader CAGW OU monitoring network. All 10 GA monitoring wells were sampled in 4Q21, and all the TCE results were below detection limits. Analytical data for the GA wells are tabulated in Appendix F.

Surface Water

Five Castor Creek surface water monitoring stations (CC-01, CC-02, CC-03, CC-04 and CC-06) are part of the broader CAGW OU monitoring network. CC-01 and CC-02 have the longest monitoring history and indicate a decreasing TCE trend for Castor Creek since 2002. The downstream surface water monitoring station CC-01 sample TCE concentration is below detection (MDL = 0.333 µg/L) in June 2022 from a maximum TCE concentration of 1.72 µg/L in May 2002. CC-06 is the farthest up-stream and eastward surface water monitoring station on Castor Creek, and the CC-06 sample TCE concentrations decreased to 0.89 µg/L in June 2022 from a high of 2.34 µg/L in 2012. CC-03 and CC-04 monitor FMB immediately above and below Castor Creek's confluence with FMB. CC-03 and CC-04 TCE sample concentrations remained below detection limits for all samples in 4Q21 and 2Q22.

4.4.2.2 Tetrachloroethylene

PCE is a minor component of the CAGW OU VOC groundwater plume, which has not exceeded the MCL (5 µg/L) at any CAGW OU monitoring station since 2006, before the implementation of the ERH-SVE system. In the CAGW OU monitoring network, the highest PCE groundwater concentration was 1.44 µg/L from monitoring well CRW010CU for a November 2021 sample collected for the CBRP OU. The 4Q21 PCE result (1.44 µg/L) is below the MCL and is the maximum PCE groundwater concentration at this well. CRW010CU monitors the portion of the CAGW OU VOC plume that is migrating towards Twin Lakes and FMB. In 4Q21 and 2Q22, all CAGW OU surface water stations monitoring FMB had samples with PCE concentrations below the detection limits, but CC-06 on Castor Creek had a PCE result (1.46 µg/L) above detection. The 2021 and 2022 PCE data are tabulated in Appendix F.

4.4.2.3 Cis-1,2-Dichloroethylene

In 4Q21 and 2Q22, in the broader CAGW OU monitoring network, cis-1,2-DCE is above detection limits only at the four monitoring wells (CRW 10C, CRW010CU, CRW020D, and CRW021DR). The highest cis-1,2-DCE groundwater concentration (0.95 µg/L) was at well CRW021DR, which is immediately down-gradient of the former VOC vadose zone source area remediated by the ERH-SVE system. The 4Q21 distribution pattern for cis-1,2-DCE, which is present near the former VOC source area and in the wetland areas near Castor Creek, is consistent with previous years. In previous years, cis-1,2-DCE has been detected at low concentrations at a few CAGW OU mid-plume monitoring wells screened in the UAZ-UTRA or the MAZ-UTRA. The 2021 and 2022 cis-1,2-DCE data are tabulated in Appendix F.

4.4.2.4 Vinyl Chloride

During the 2021-2022 sampling period, VC was not detected in any of the CAGW OU monitoring stations, which is consistent with previous years. The 2021 and 2022 VC data are tabulated in Appendix A and Appendix F.

4.4.2.5 Tritium

Overall, the CAGW OU tritium plume has decreased significantly in aerial extent and concentration since 2002 (Figure 44). The highest groundwater tritium concentrations are now in the distal portion of the plume in the CAGW OU NTC RA area, and those wells are showing slowly decreasing tritium trends (Figure 45). In June 2022, well CRW024C had the highest tritium groundwater concentration (1,210 picocurie per milliliter [pCi/mL]).

5.0 SUMMARY

Groundwater and surface water data from July 2021 through June 2022 indicate conditions in some areas (i.e., CRW026C) of the CAGW OU NTC RA are conducive to anaerobic biodegradation of TCE, though for short periods of time (< 1 year) at other wells (CRW023C, CRW024C, CRW027C and CRW028C) based on anaerobic microbe increases. The presence of ethylene and methane in some groundwater and surface water samples after the implementation of the CAGW OU NTC RA is an indication of anaerobic biodegradation up-gradient of the wells and surface water stations.

TOC concentrations and field measurements (DO, ORP, and pH) indicate reduced oxygen conditions favorable for anaerobic biodegradation of TCE in some portions (i.e., CRW026C) of the TCE plume.

The QuantArray®-Chlor analyses of the BioTraps indicated an increase in anaerobic microbial activity at some wells and aerobic (co)metabolic activity at most wells. Anaerobic microbial activity was primarily limited to wells CRW023C and CRW026C, indicating limited aerial extent outside of the injection zone. In the past year, reductions in groundwater TCE concentrations have been observed in CRW023C, CRW024C, and CRW025C, with increases at CRW027C and CRW028C, while TCE concentrations at CRW026C are about the same. Aerobic (co)metabolic activity from increased enzyme concentrations may explain the below detection concentrations of cis-1,2-DCE and VC in the down-gradient monitoring wells, alternatively only minimal amounts of these anaerobic degradation products were produced.

In June 2022, the average TCE concentration for the MAZ have decreased by about 28%, relative to the 2019 baseline samples, since the inception of the CAGW OU NTC RA. Likewise, in June 2022, average TCE concentrations in the unnamed tributary to Castor Creek have decreased by about 34%, relative to the baseline samples, since the inception of the CAGW OU NTC RA. In contrast, average TCE concentrations in background wells have only decreased by about 6.7% over the same time period. The greater decrease of TCE in the MAZ and the unnamed tributary is attributed to the CAGW OU NTC RA in addition to other MNA mechanisms.

The down-gradient zone of influence of the bio-barriers created by the CAGW OU NTC RA may be smaller than originally anticipated by SRS and widespread biogeochemical changes have not been observed throughout the monitoring network. This is also indicated by the relatively stable or increasing levels of TCE observed in some of the primary monitoring wells for the CAGW OU NTC RA.

Since 2002, the overall CAGW OU TCE and tritium plumes have decreased in extent and concentration, but still exceed MCLs, most notably in the distal portion of the plumes near Castor Creek.

6.0 CONCLUSION AND RECOMMENDATIONS

The original conceptual model for the CAGW OU NTC RA was that the MAZ areas around the injection zones would become anaerobic and colonized by *Dehalococcoides* for three to five years. Based on the data collected over the past three years, it appears the anaerobic areas in the MAZ have been less extensive and not as long-lived. It also appears the *Dehalococcoides* colonies were relatively short-lived and are inactive or gone. The data also indicate an unexpected increase in aerobic (co)metabolism by native microbes, as evidenced by increased enzyme levels produced by the microbes.

The rate of TCE reduction within the MAZ and unnamed tributary to Castor Creek is greater than the rate of TCE reduction in background monitoring wells. This is an indication the CAGW OU NTC RA has helped to reduce TCE concentrations in the MAZ through a combination of TCE sequestration by the emulsified oil, anaerobic biodegradation, and aerobic (co)metabolism. This is in addition to other MNA mechanisms (e.g., sorption, volatilization, diffusion, dilution, dispersion, and decay), which occur during TCE transport in the subsurface.

Groundwater monitoring will continue according to the approved EMP. SRS will seek to have the MDLs for carbon dioxide, ethylene, and methane improved to help evaluate anaerobic biodegradation and aerobic (co)metabolism conditions occurring within the CAGW OU NTC RA treatment areas.

The next CAGW OU NTC RA EMR is scheduled for September 2023 (Table 1) and will discuss data collected in the second half of 2022 and the first half of 2023.

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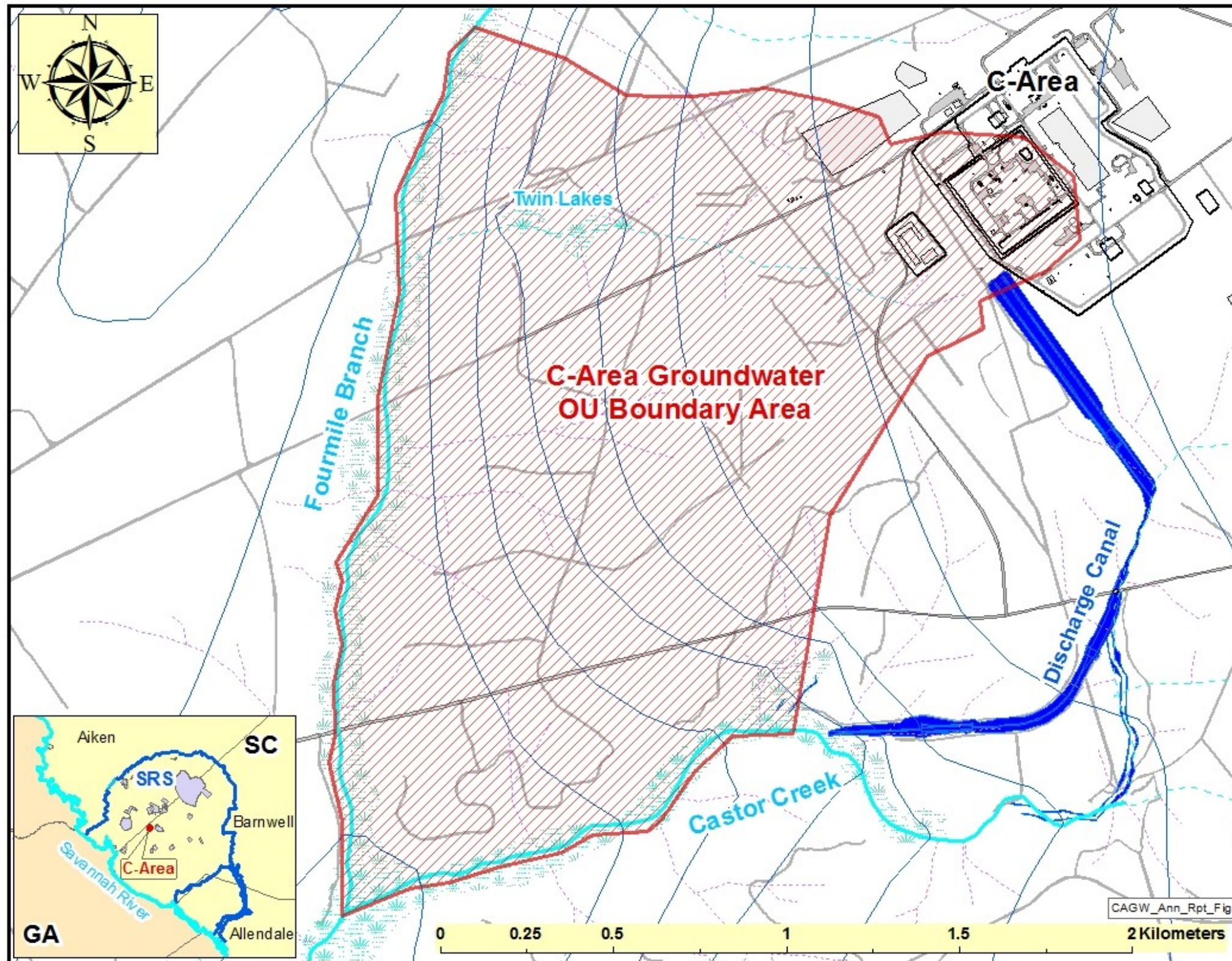


Figure 1. Location of CAGW OU in Relation to the C-Reactor Facilities

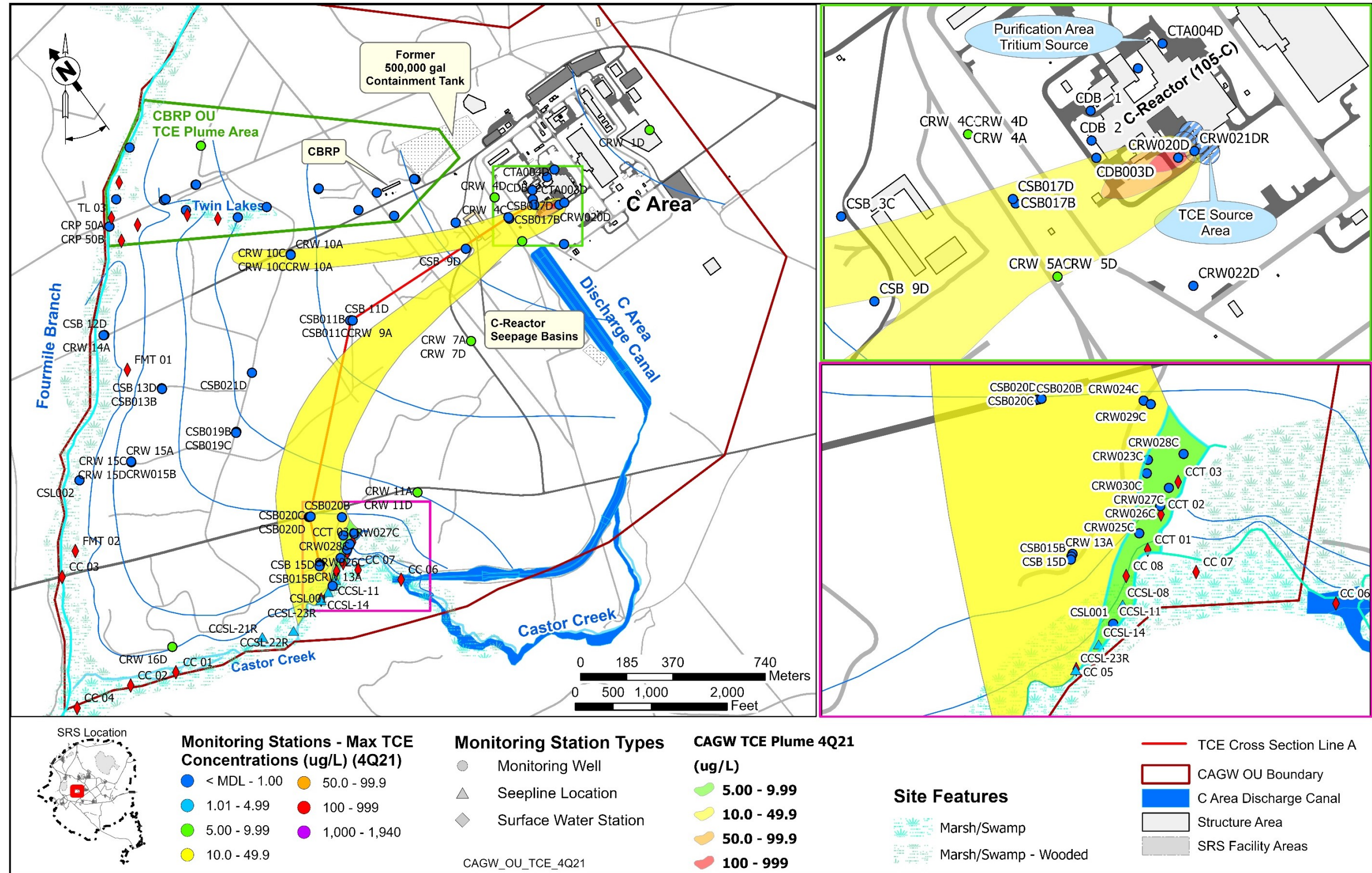


Figure 2. CAGW OU TCE Plume 4Q21

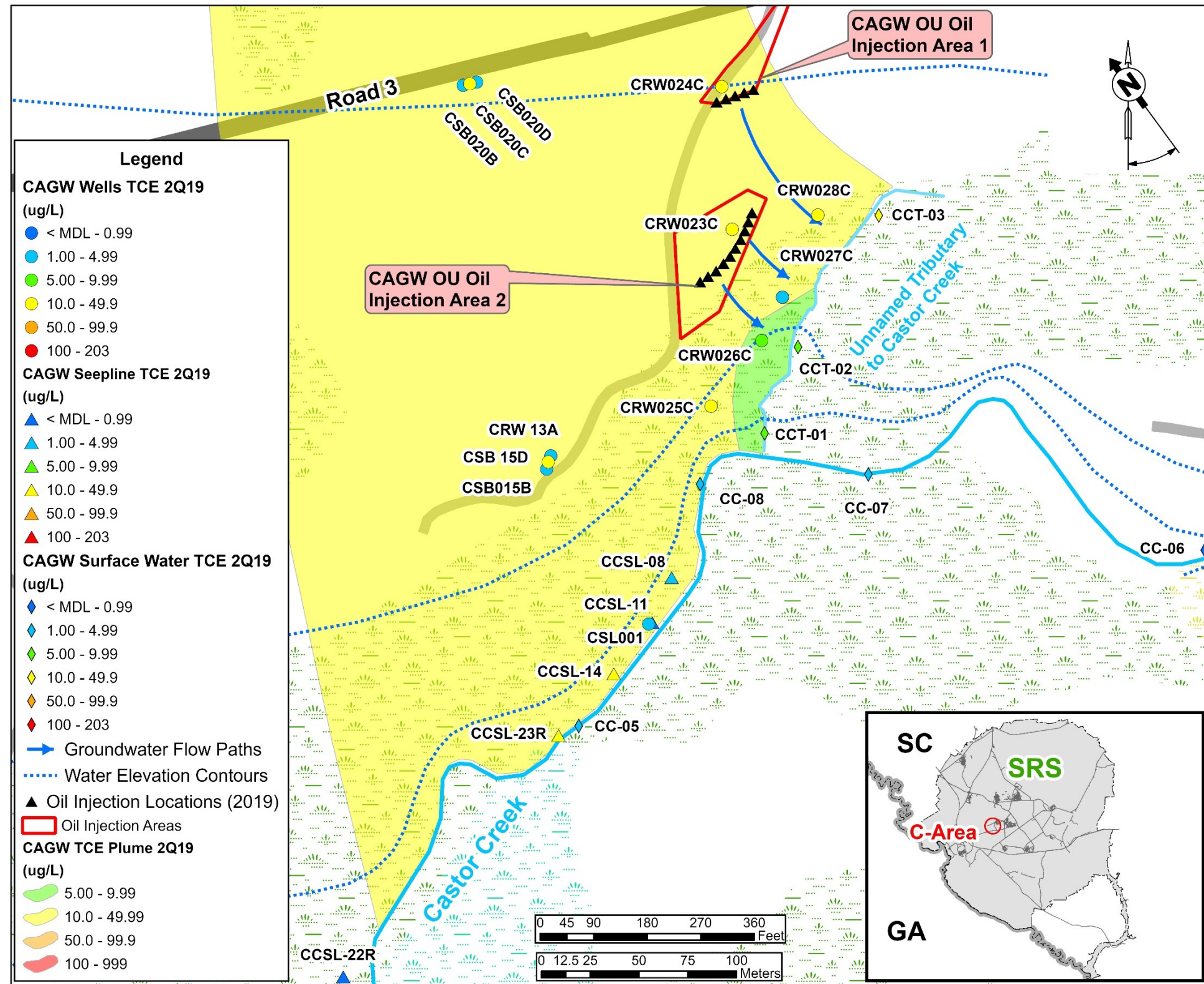


Figure 3. CAGW OU NTC RA Areas (2019 Baseline Conditions)

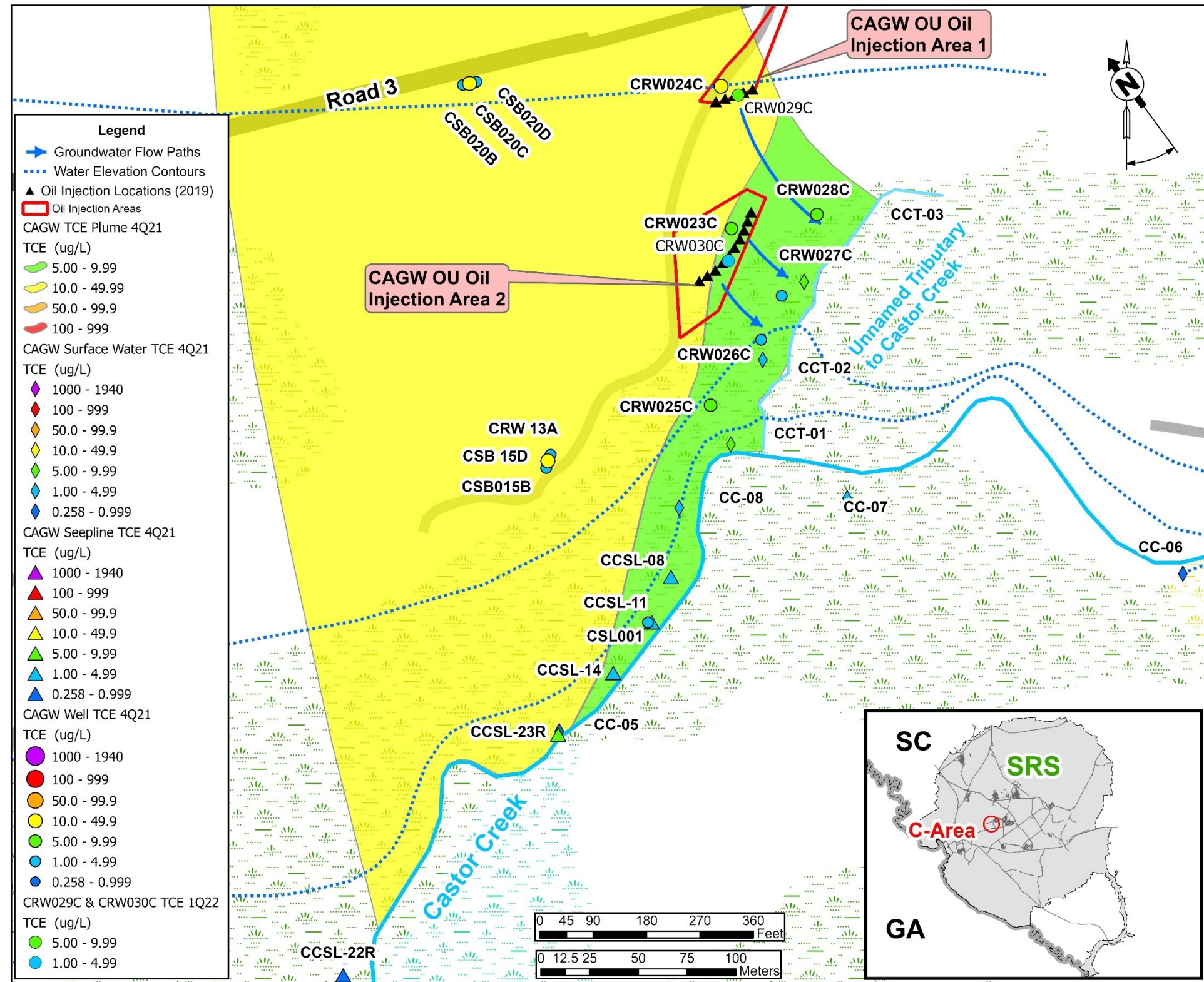


Figure 4. CAGW OU NTC RA Areas (4Q21)

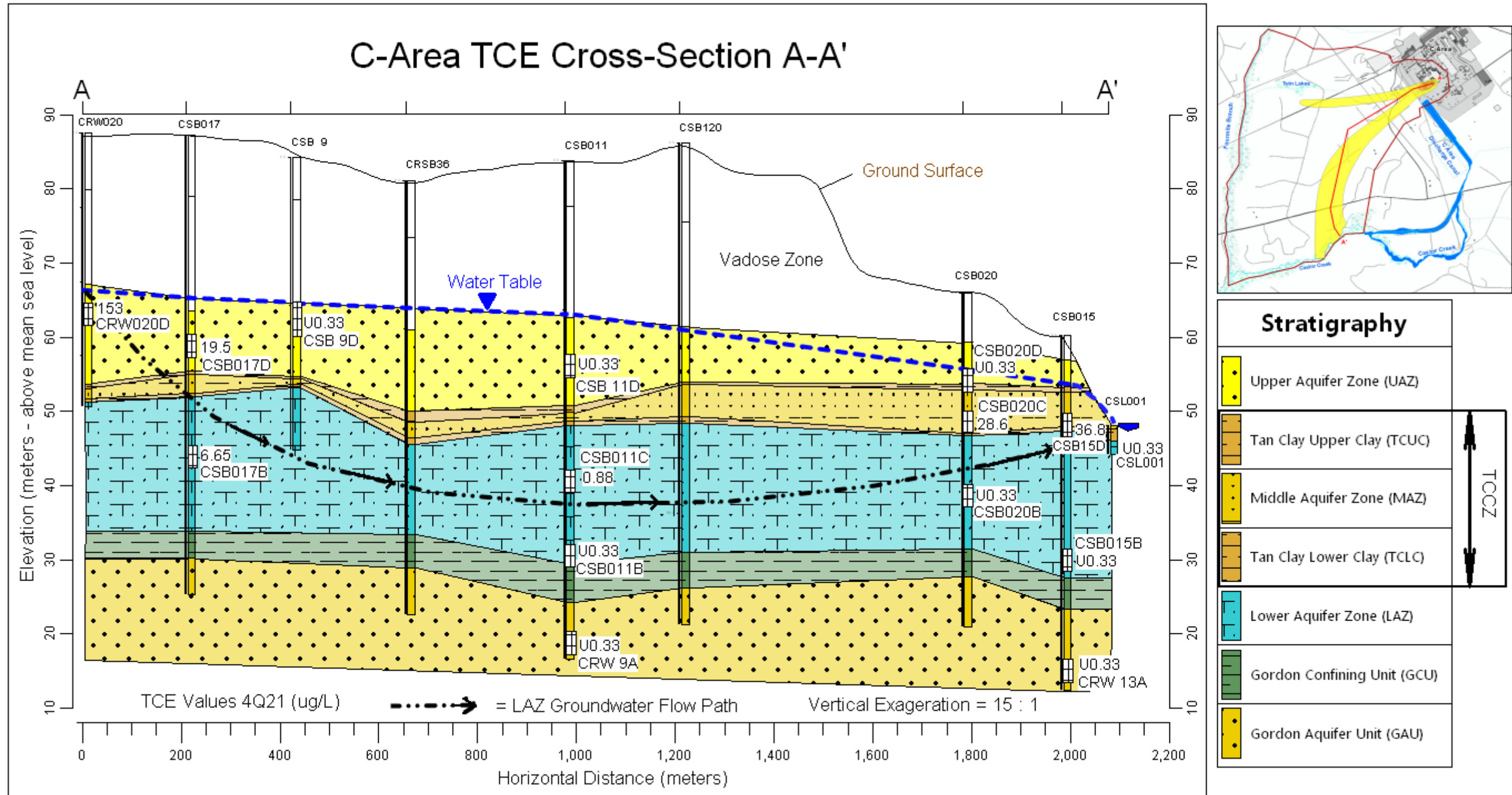


Figure 5. CAGW OU TCE Transport from C-Area to Castor Creek

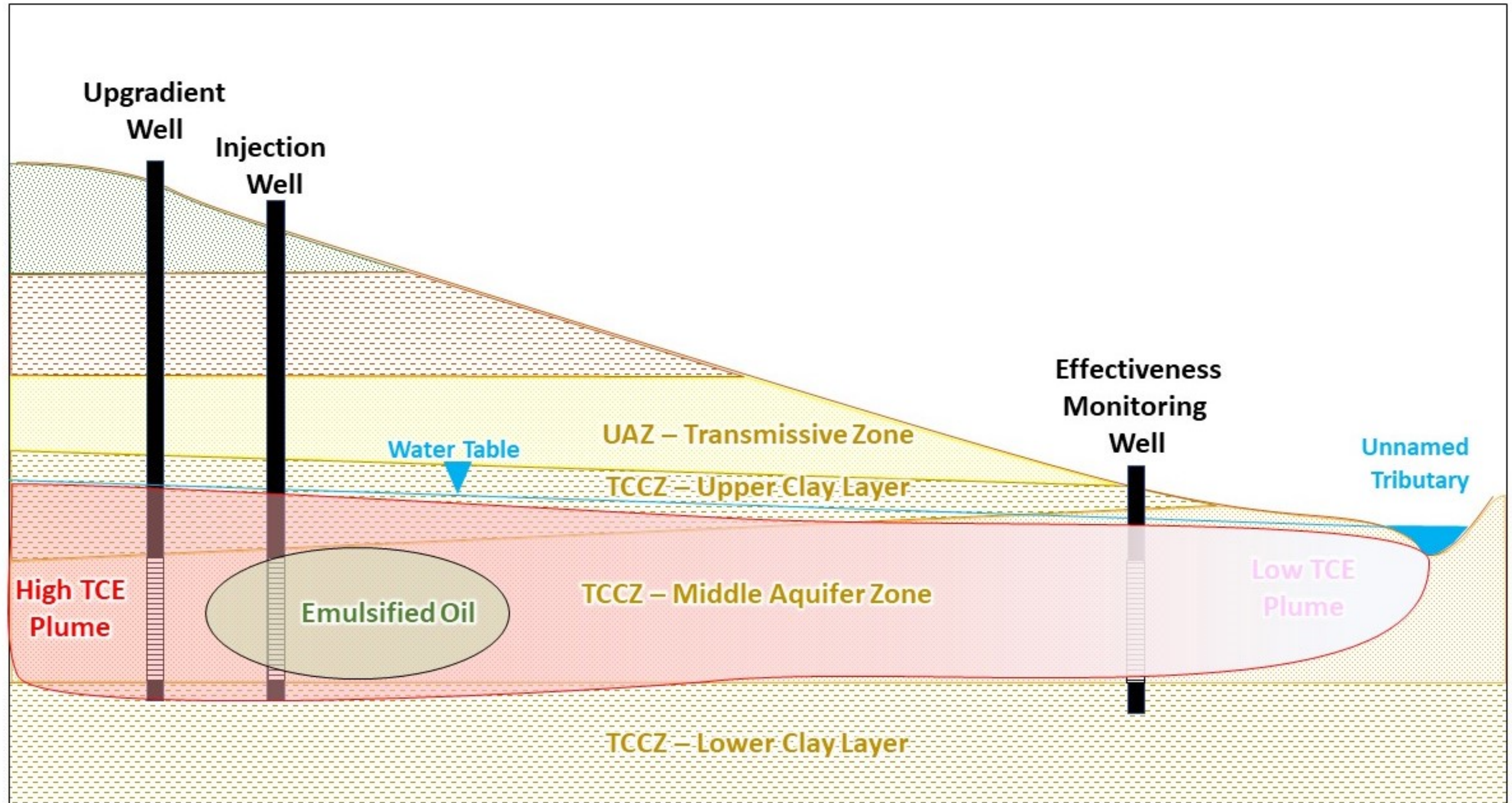


Figure 6. Schematic of Emulsified Oil Treatment Barrier.

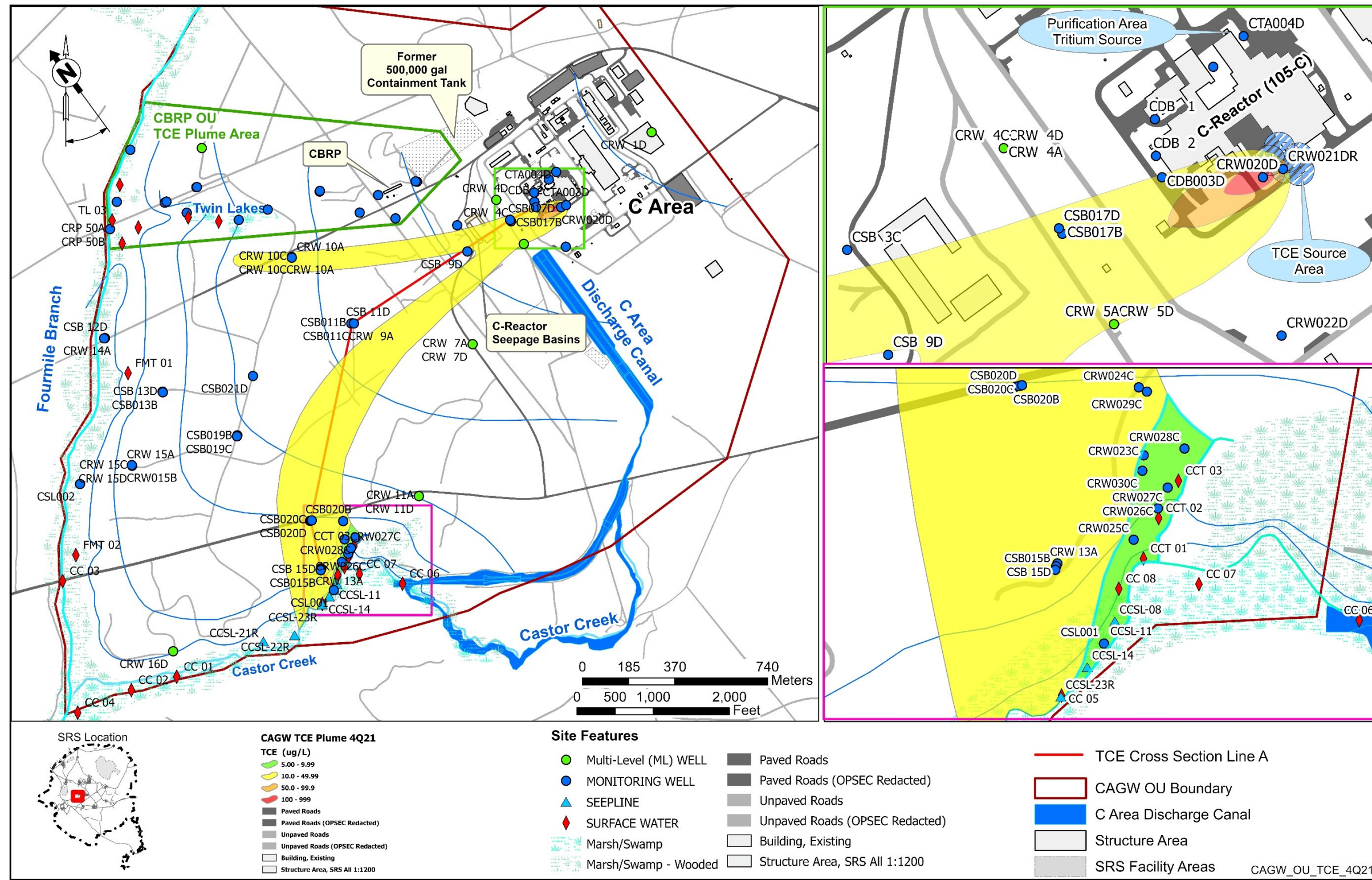


Figure 7. CAGW OU Monitoring Stations

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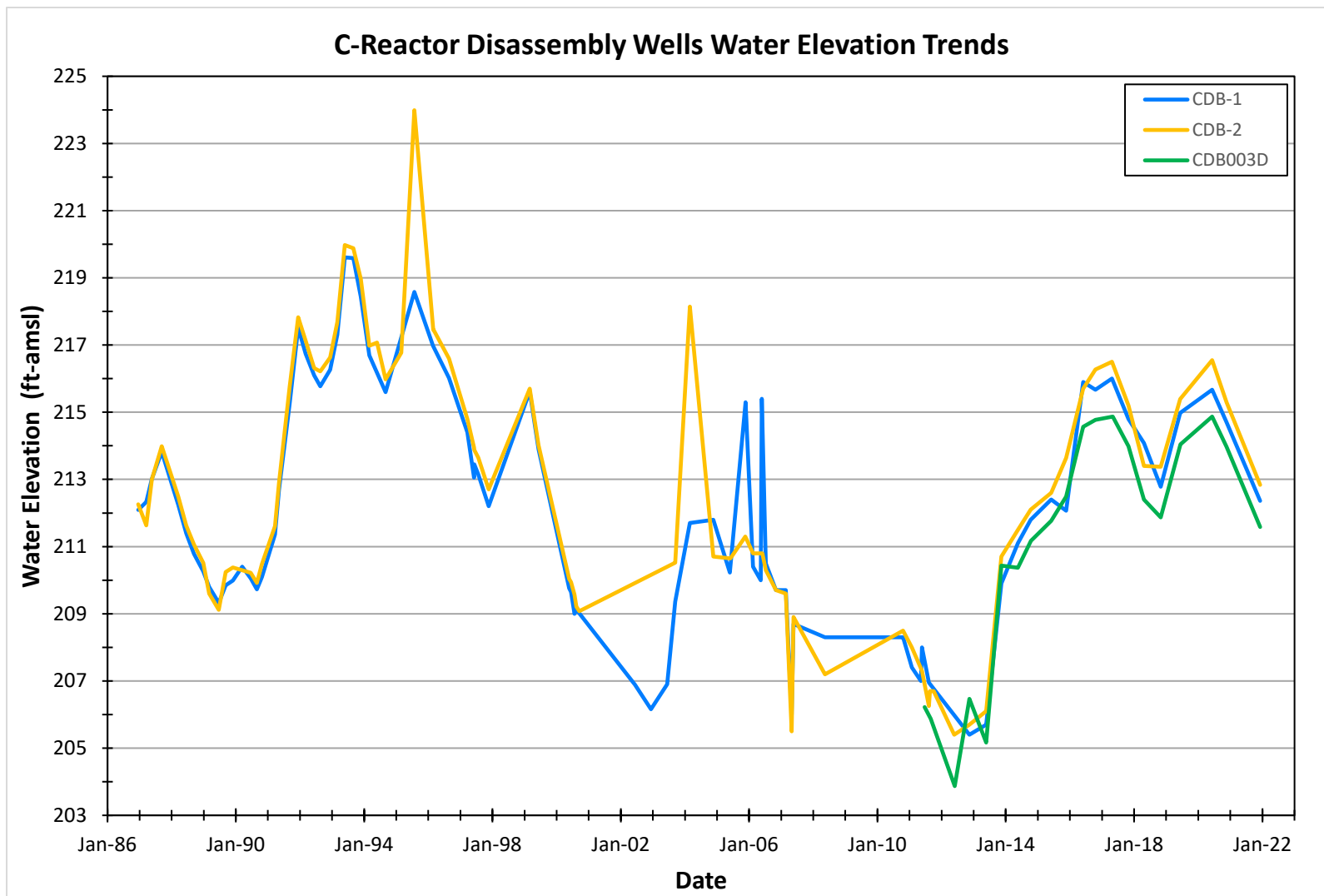


Figure 8. Water Table Trends Near C-Reactor

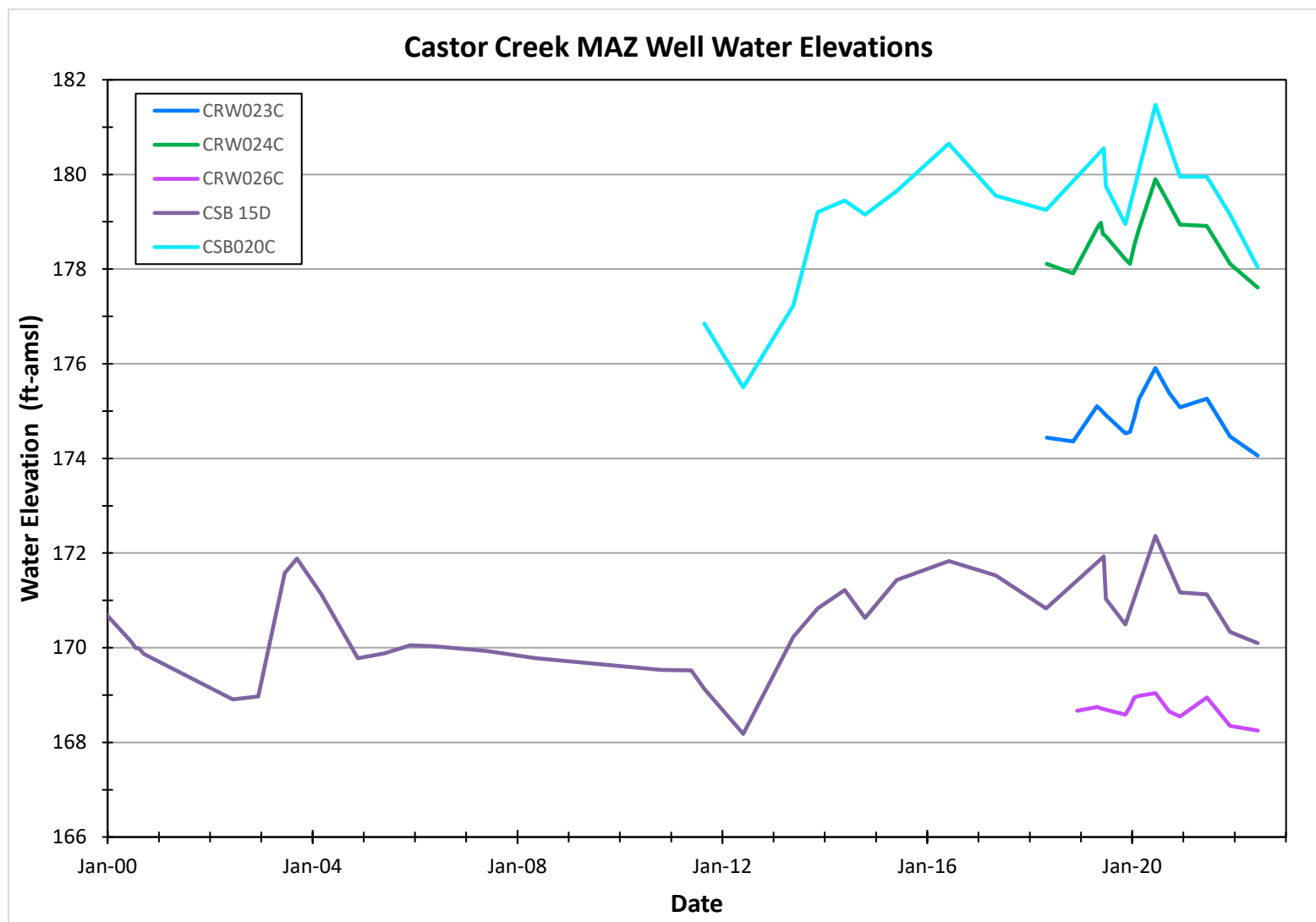


Figure 9. Water Table Trends Near Castor Creek

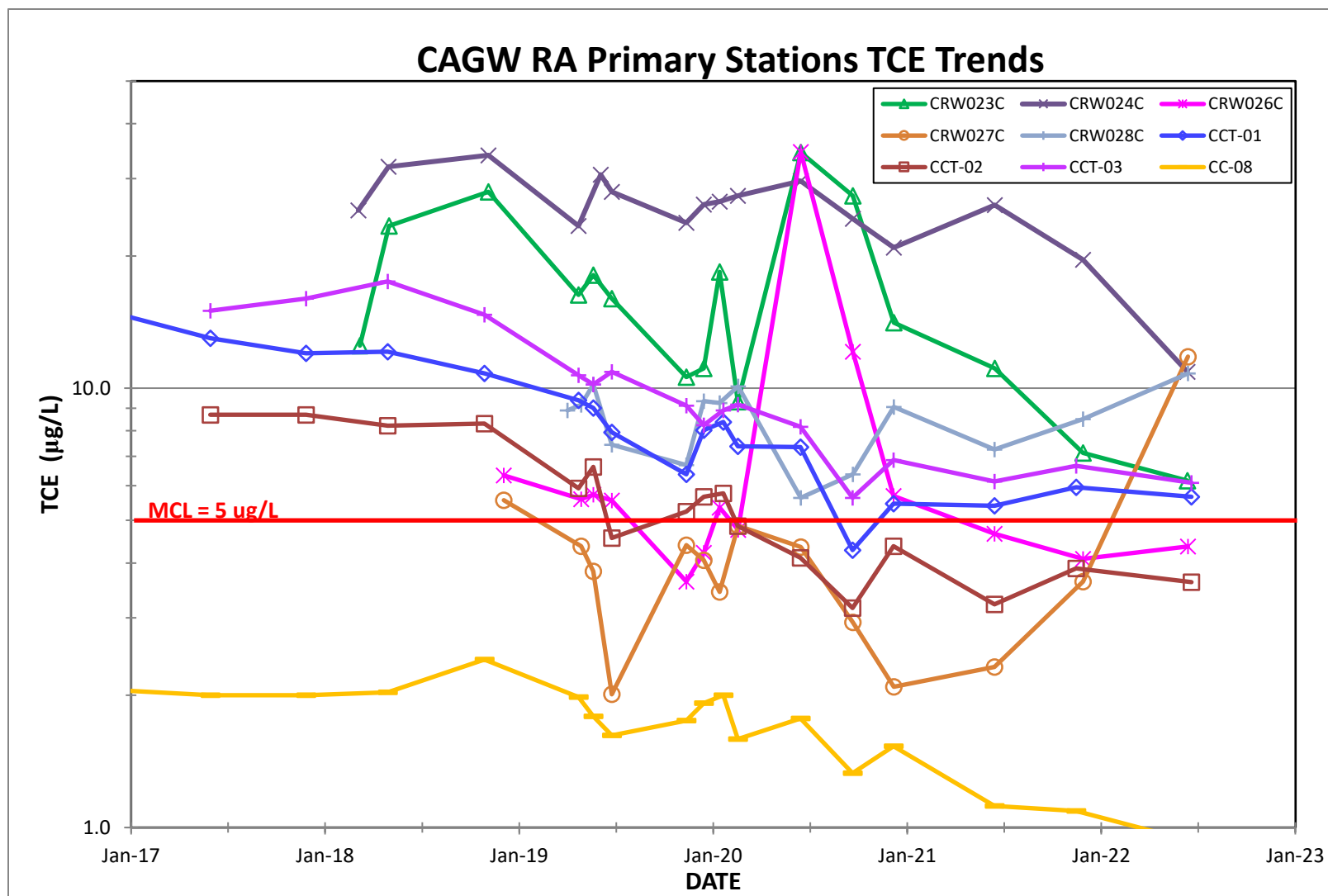


Figure 10. Groundwater TCE Trends Near and In Castor Creek Tributary

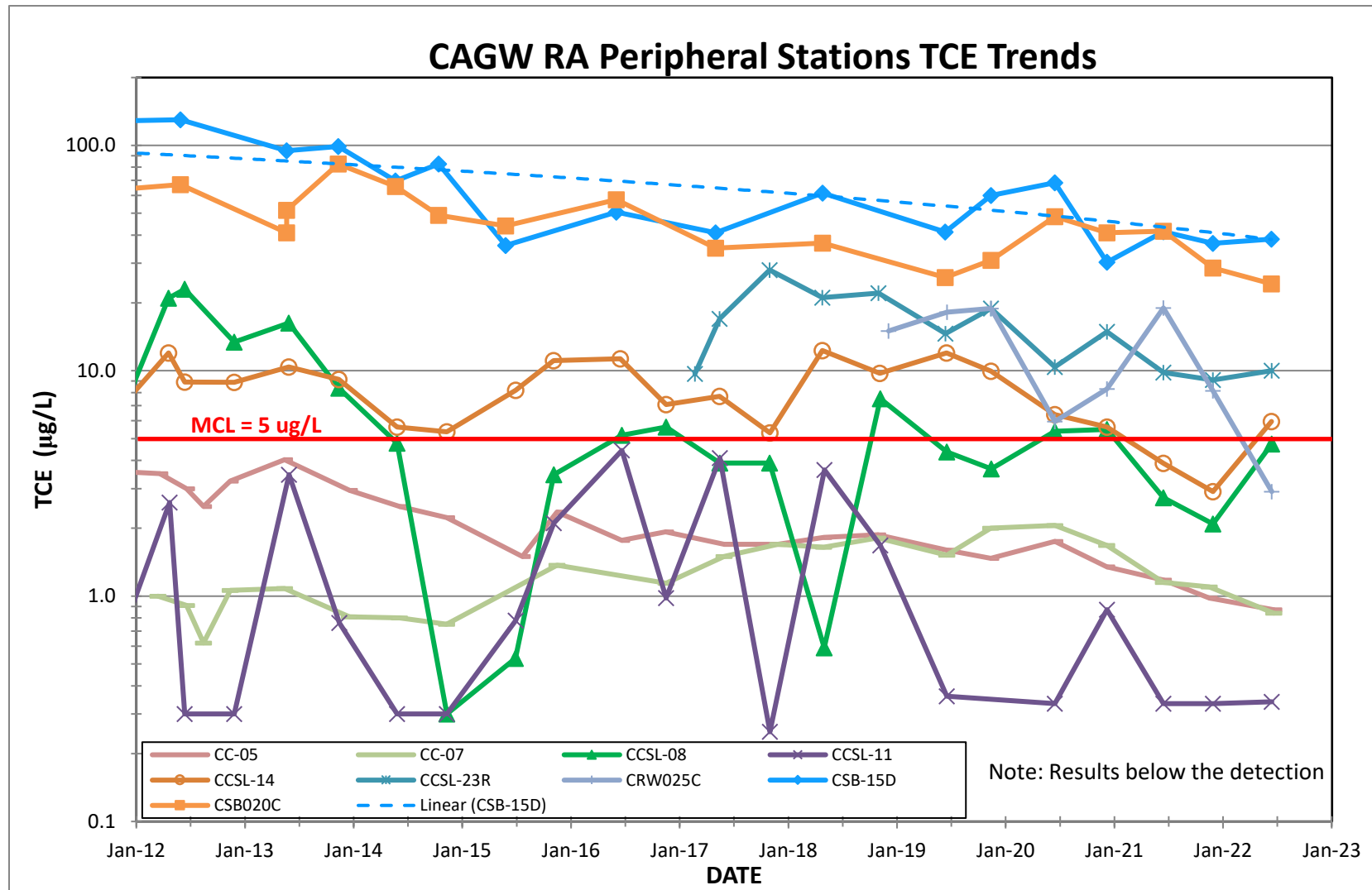


Figure 11. TCE Trends Near CAGW OU RA

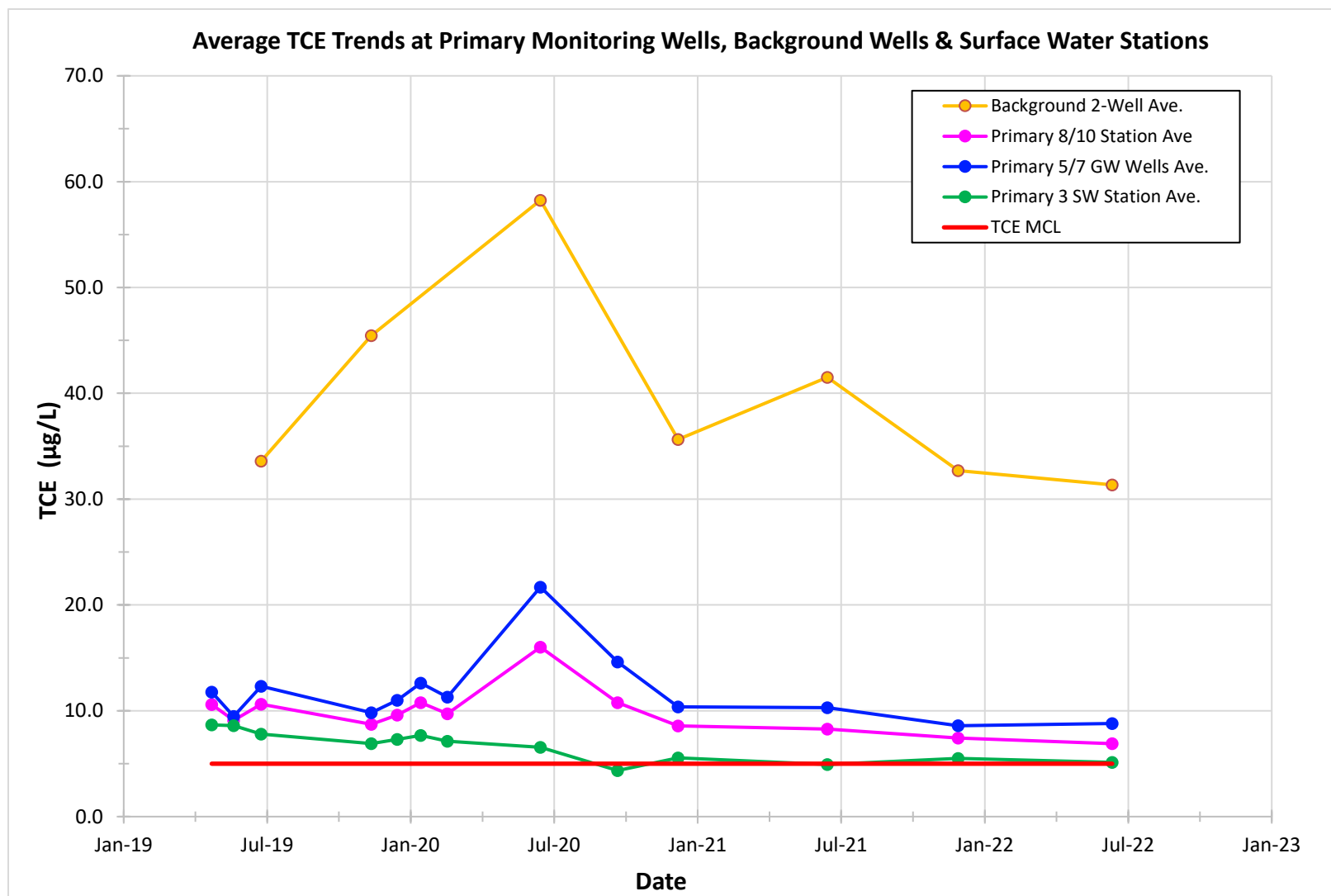


Figure 12. Groundwater and Surface Water TCE Ave. Trends

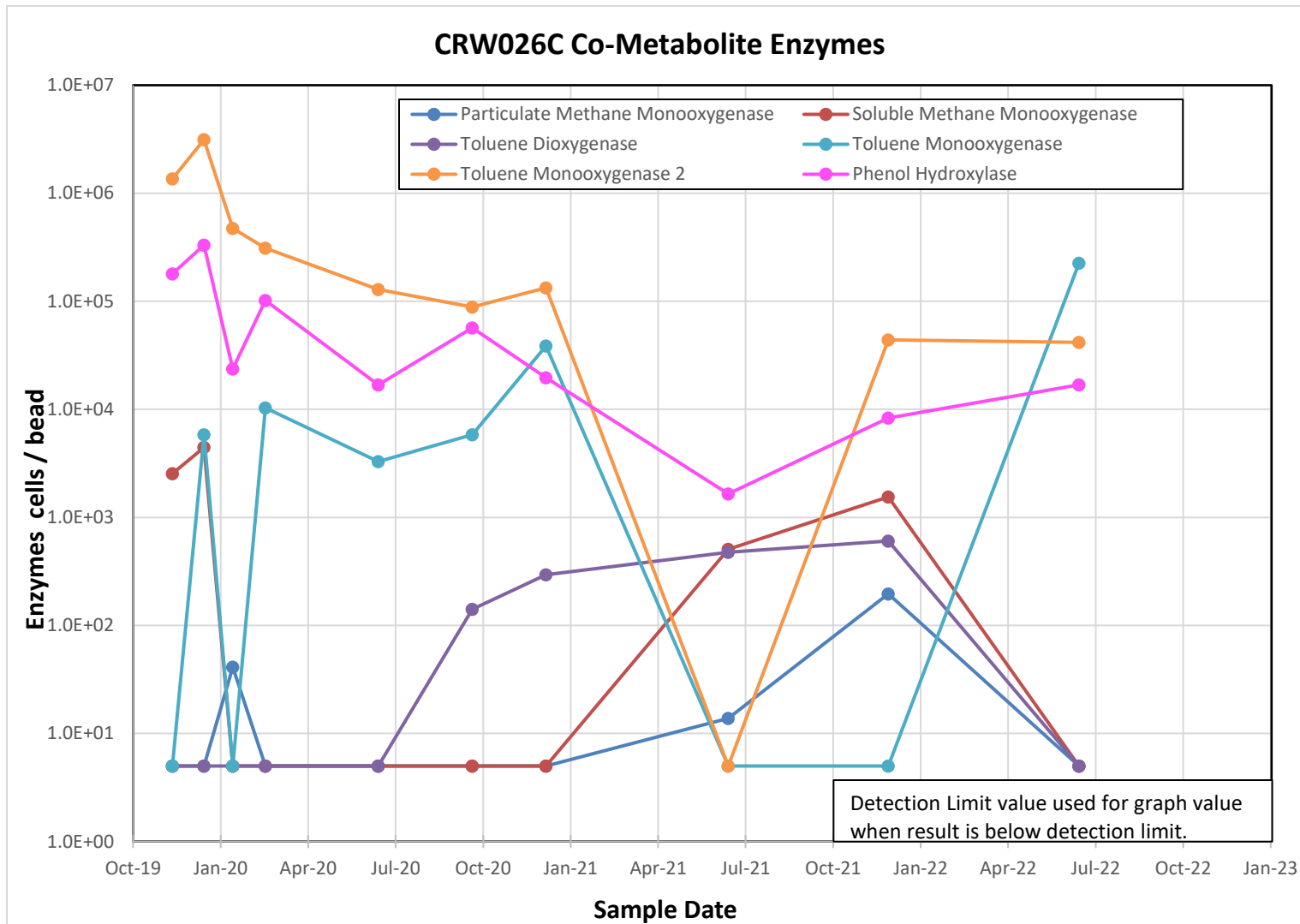


Figure 13. (Co)Metabolic Enzymes in Down-Gradient Well CRW026C

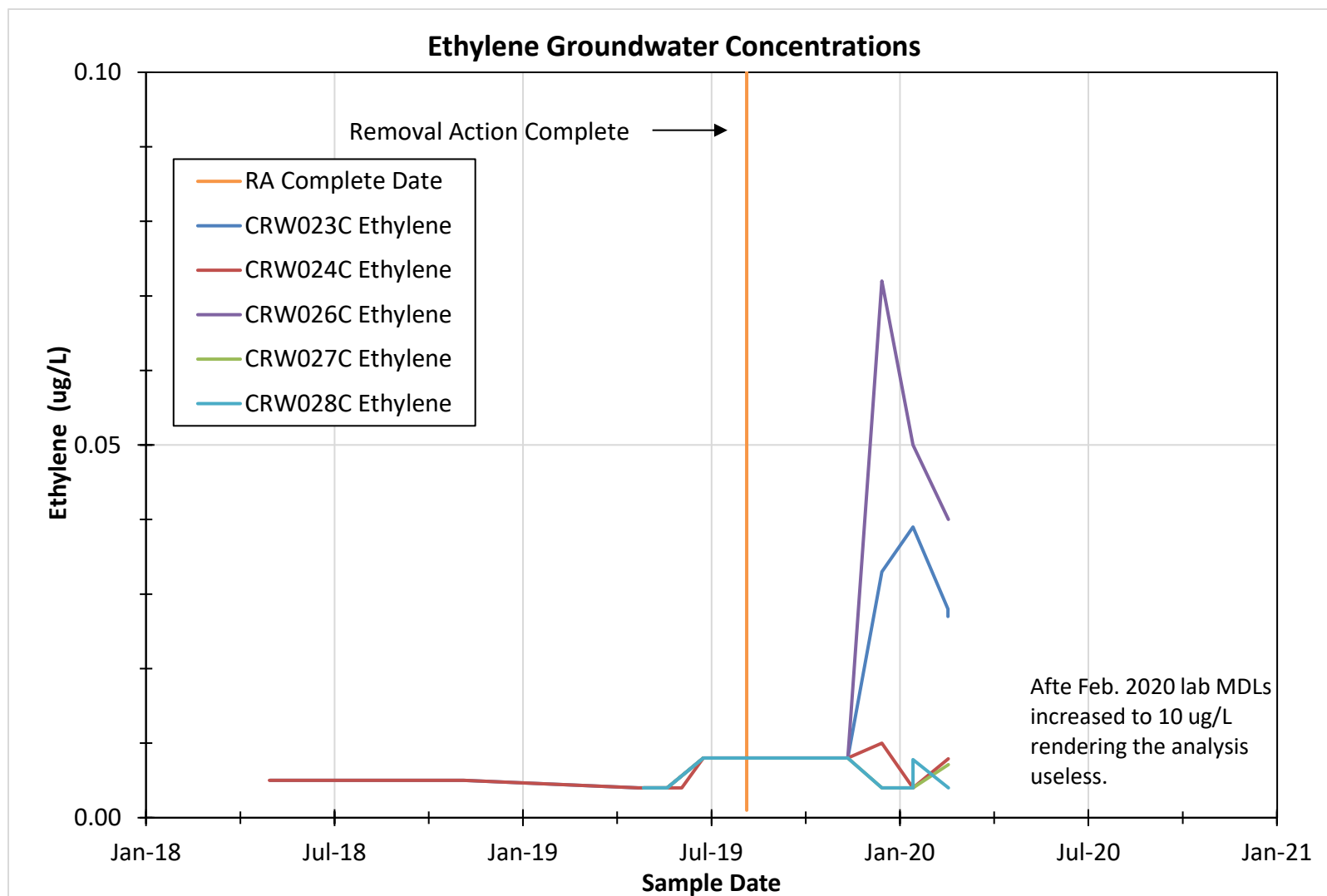


Figure 14. Groundwater Ethylene Trends

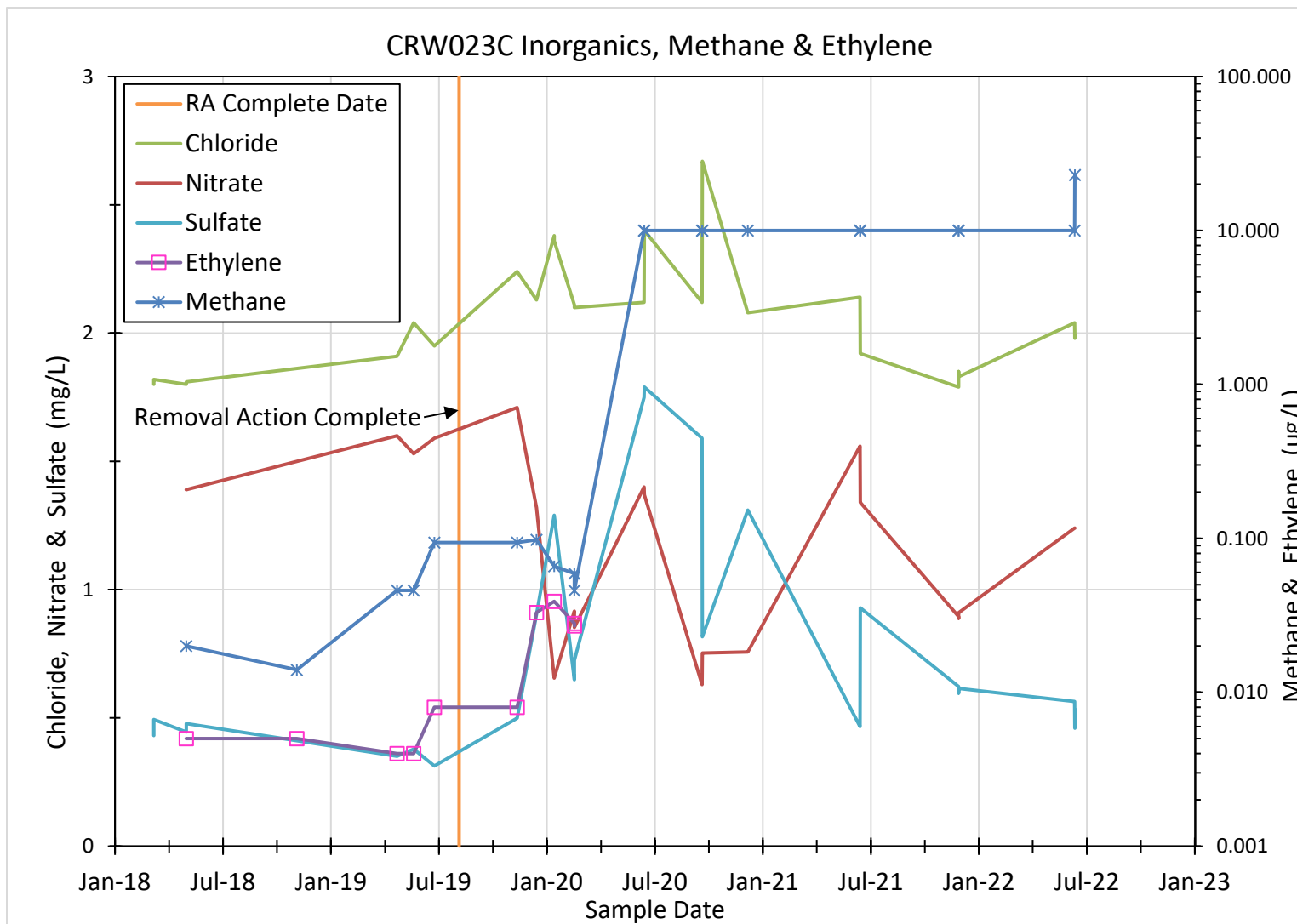


Figure 15. CRW023C Post-RA Groundwater Trends

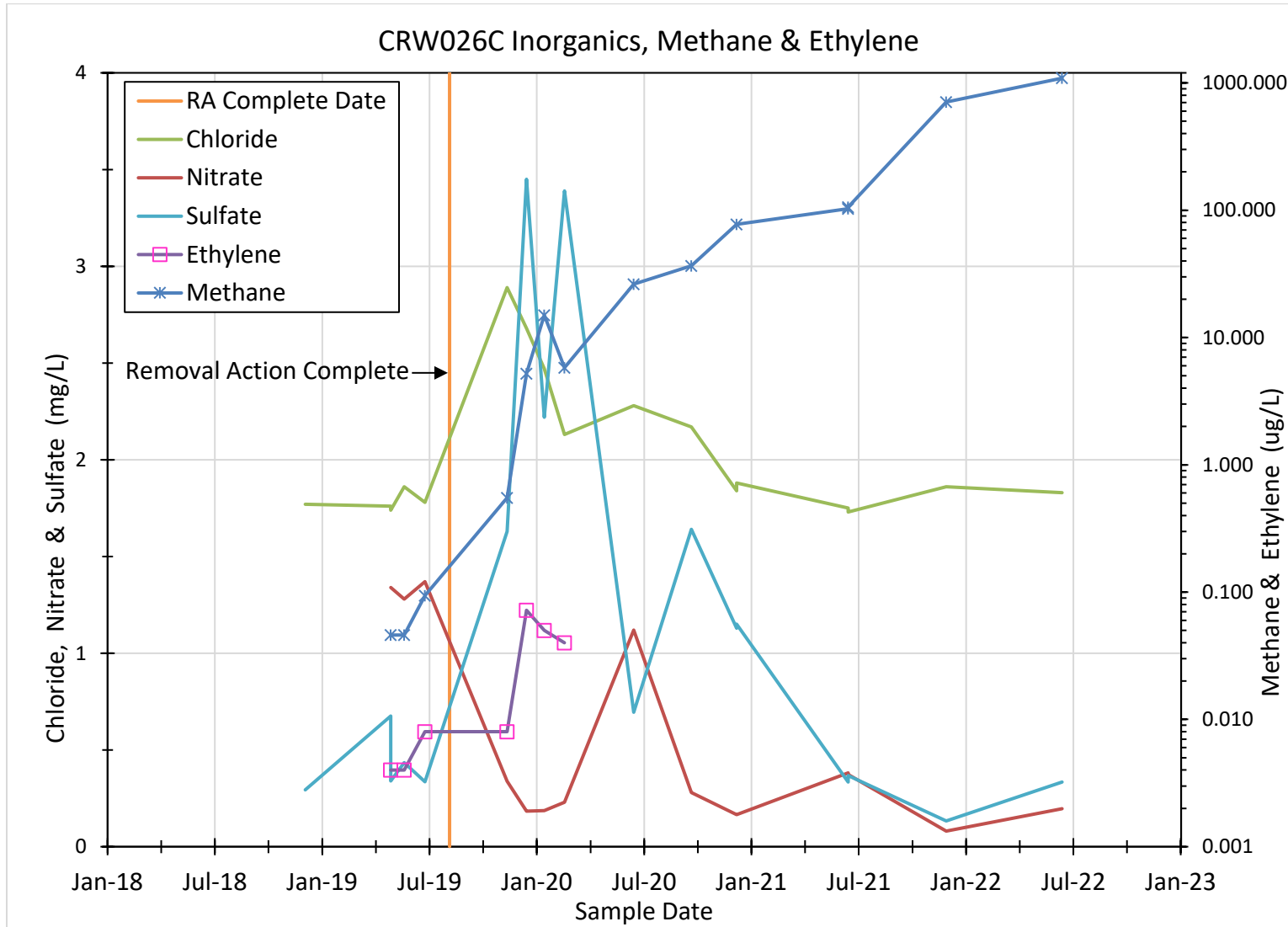


Figure 16. CRW026C Post-RA Groundwater Trends

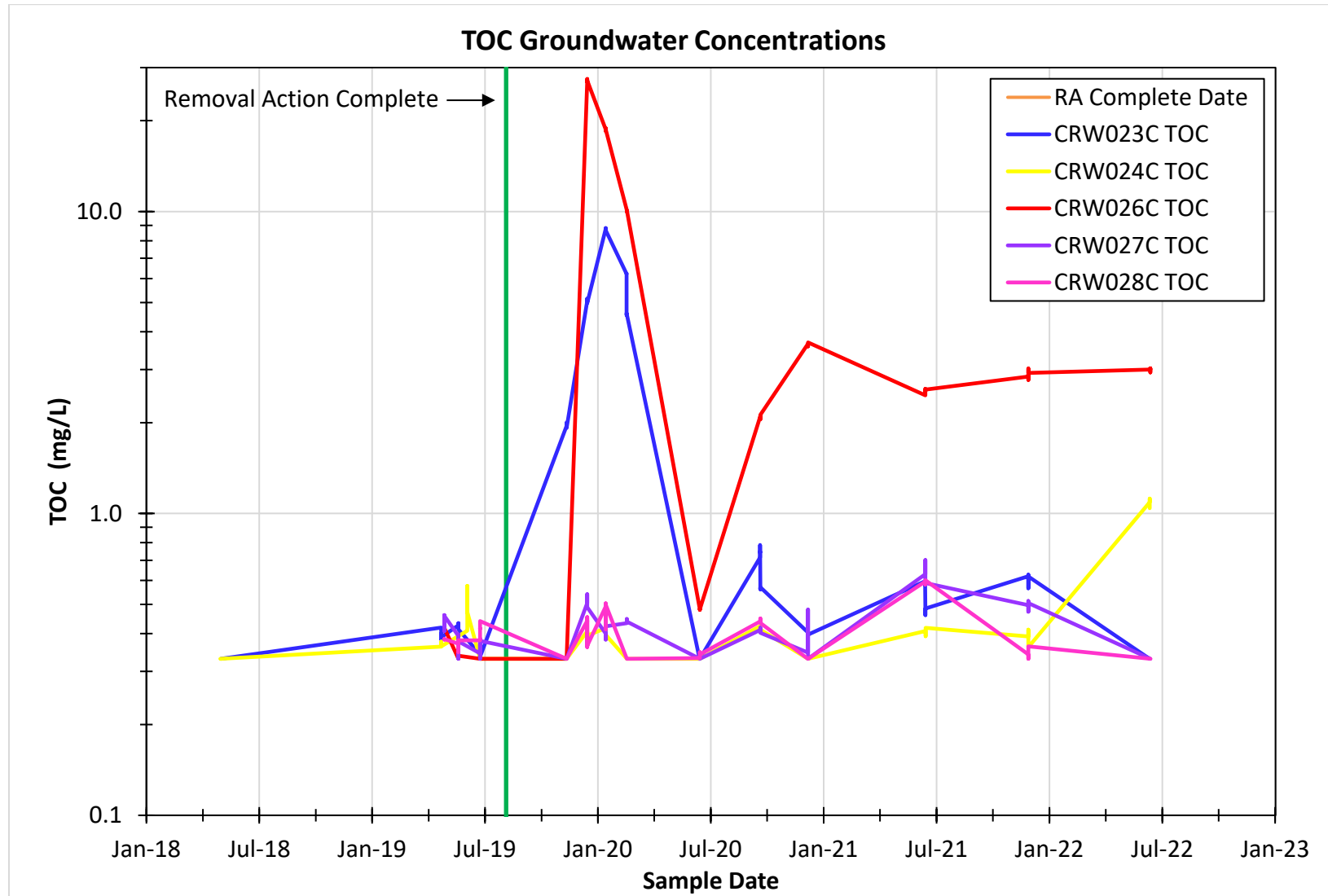


Figure 17. Post-RA TOC Groundwater Trends

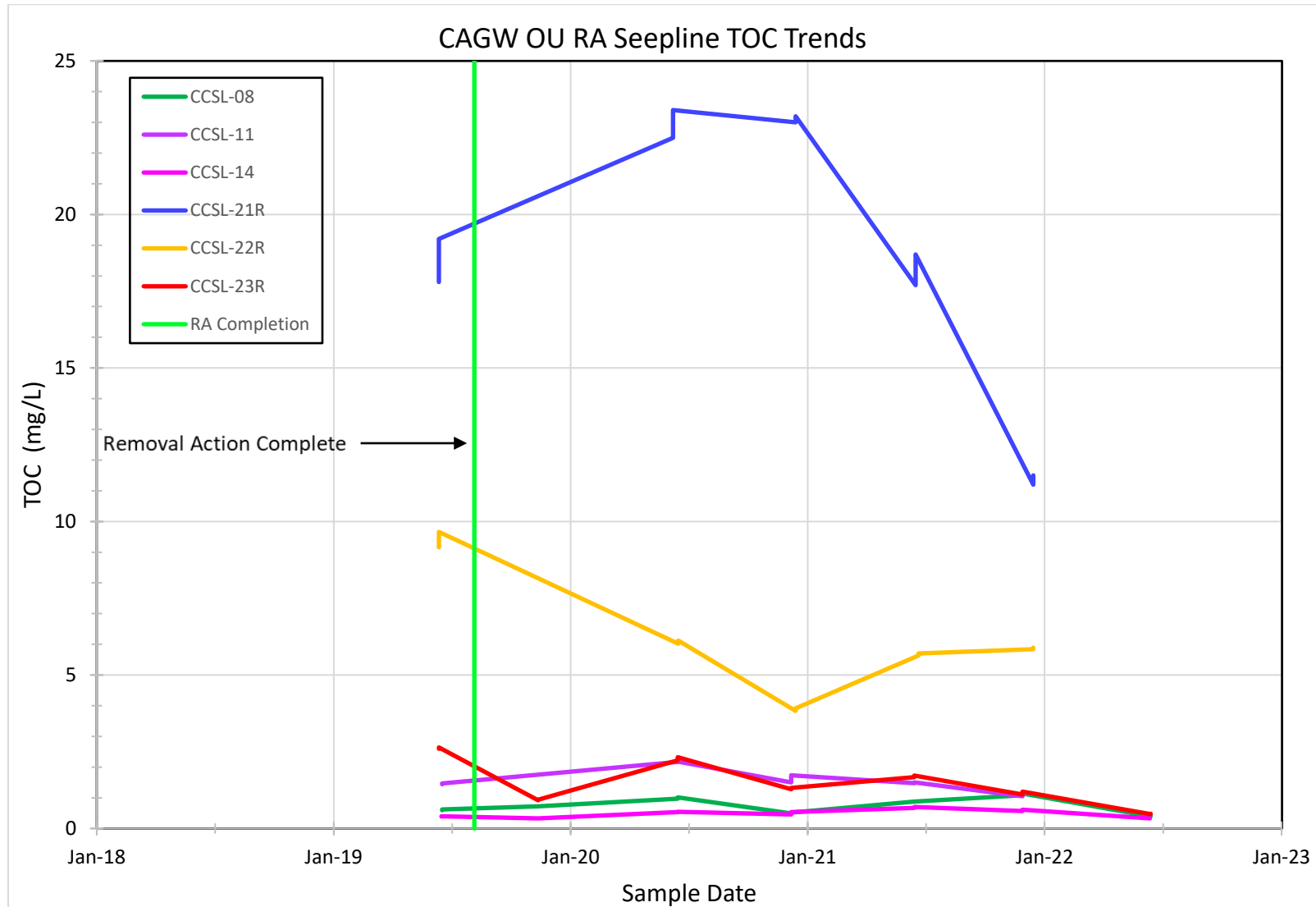


Figure 18. Post-RA TOC Seepline Groundwater Trends

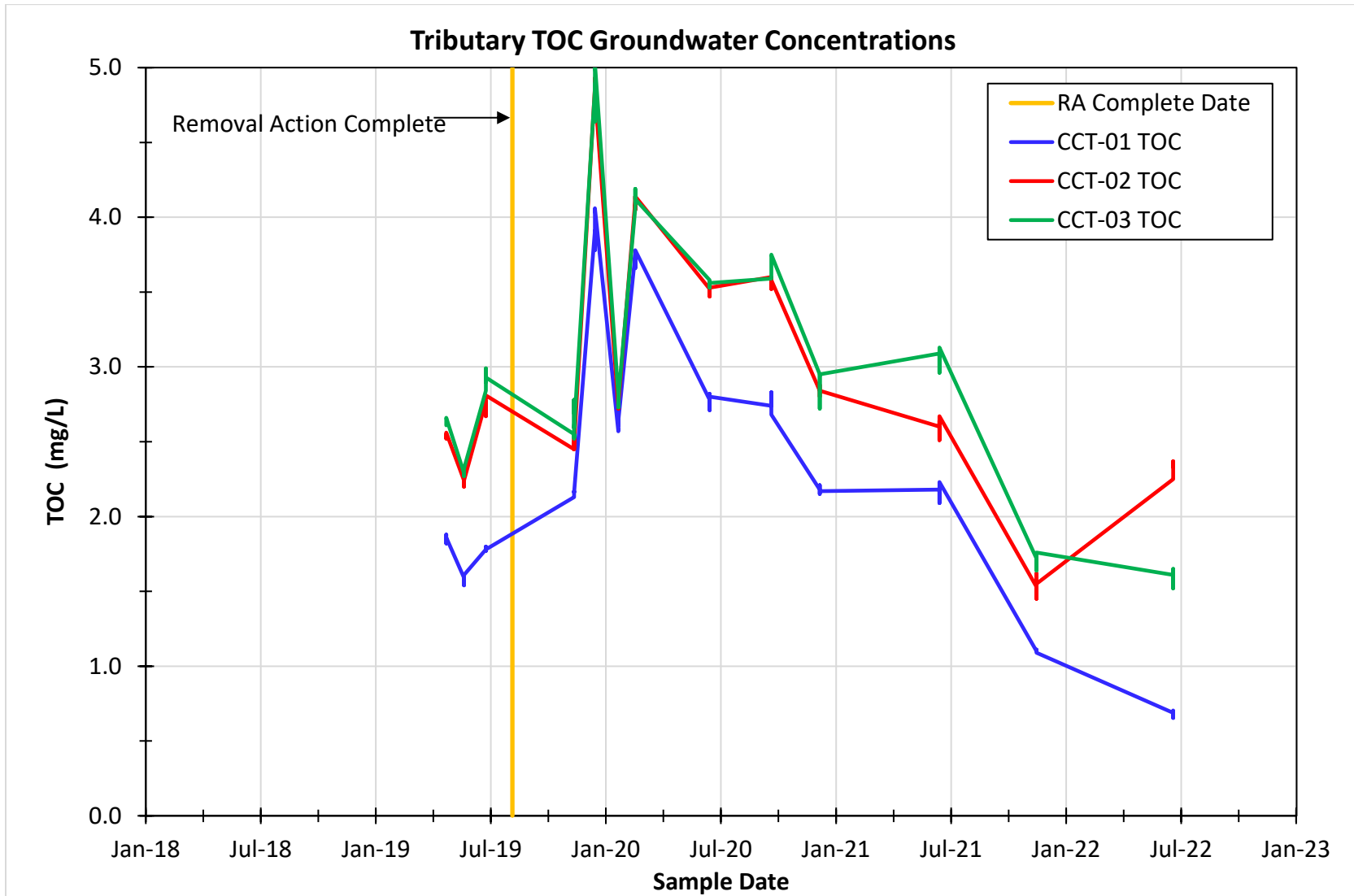


Figure 19. Post-RA TOC Surface Water Trends

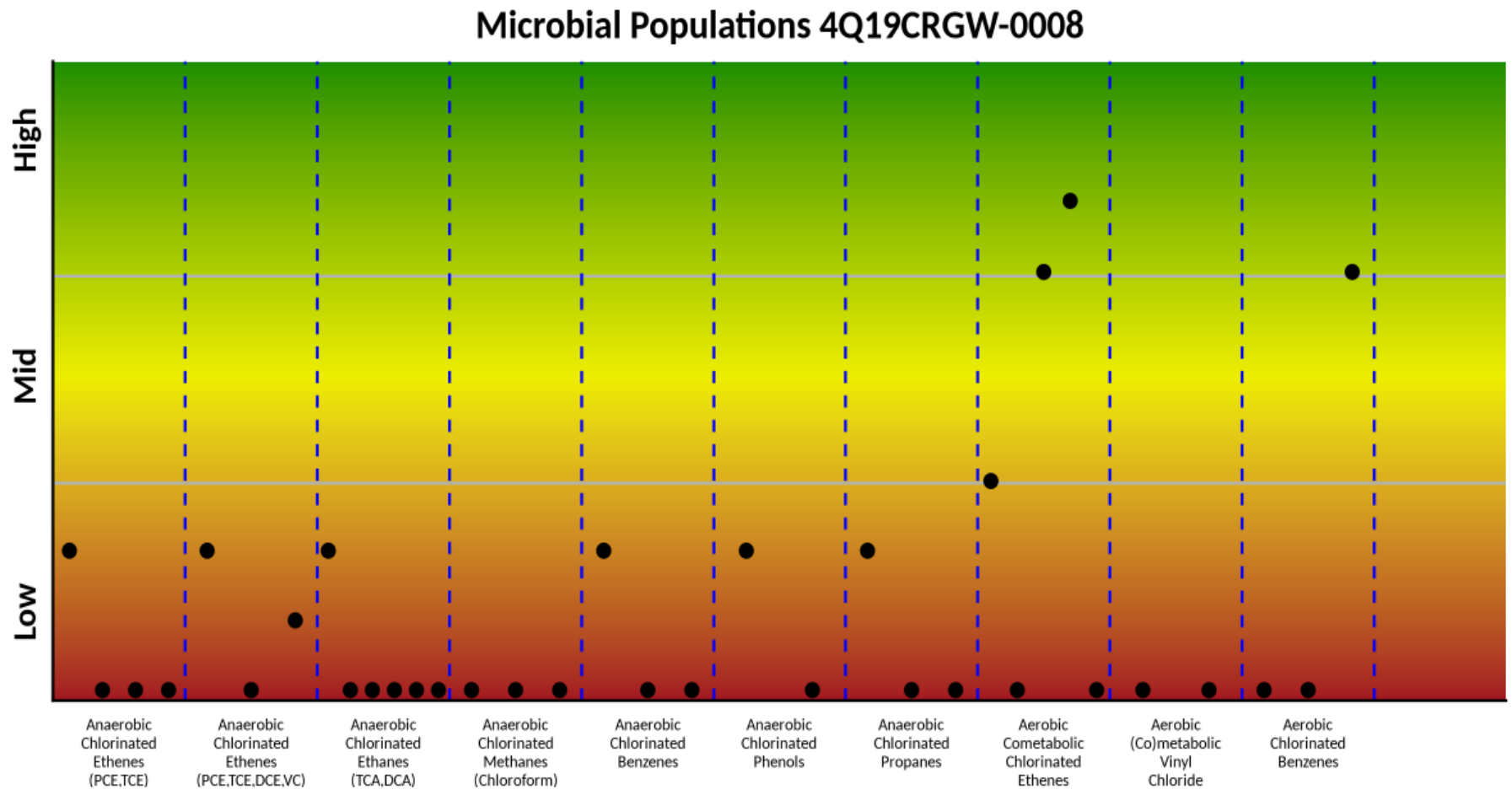


Figure 20. CRW026C Microbial Activity November 2019

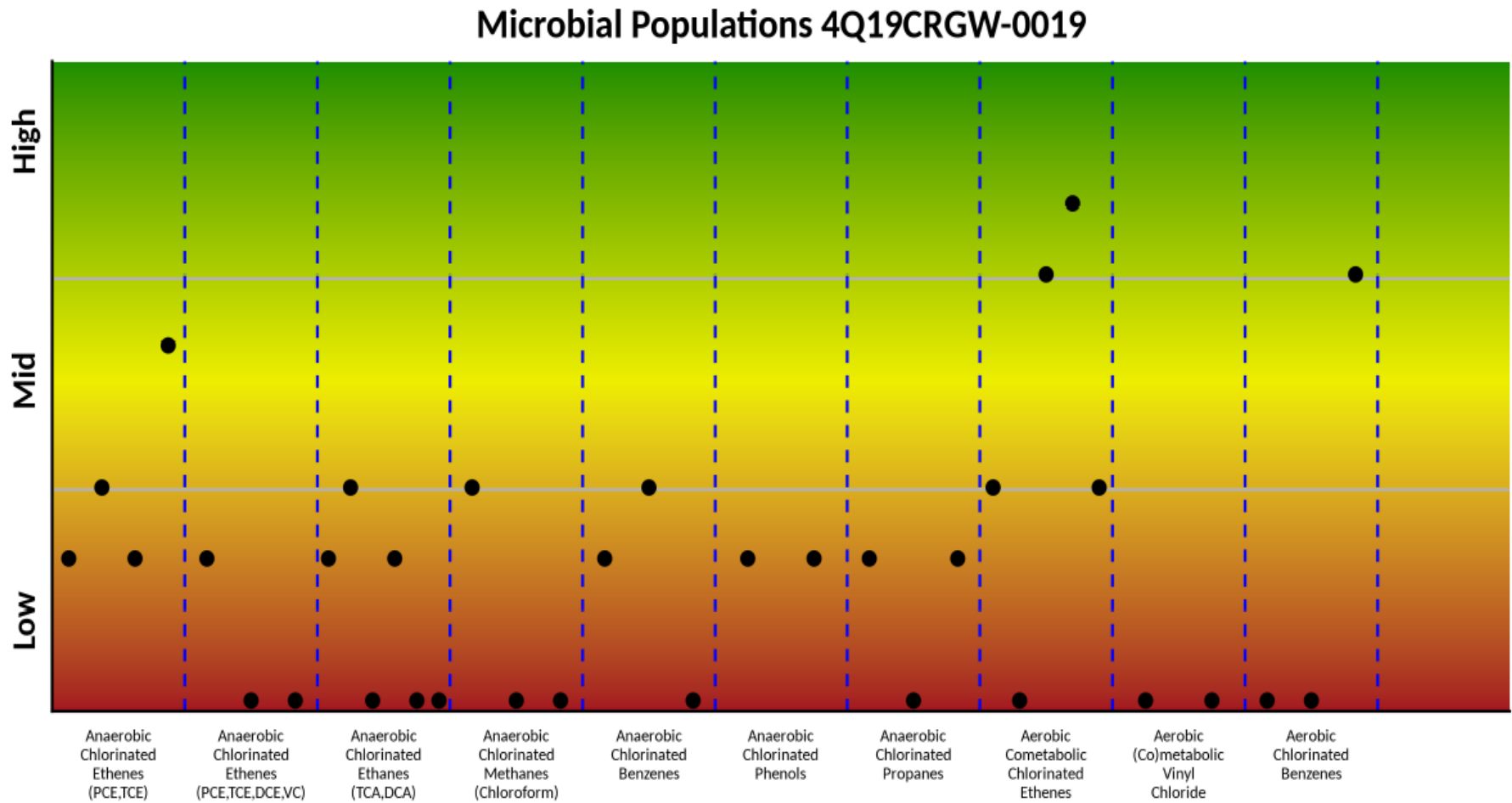


Figure 21. CRW026C Microbial Activity December 2019

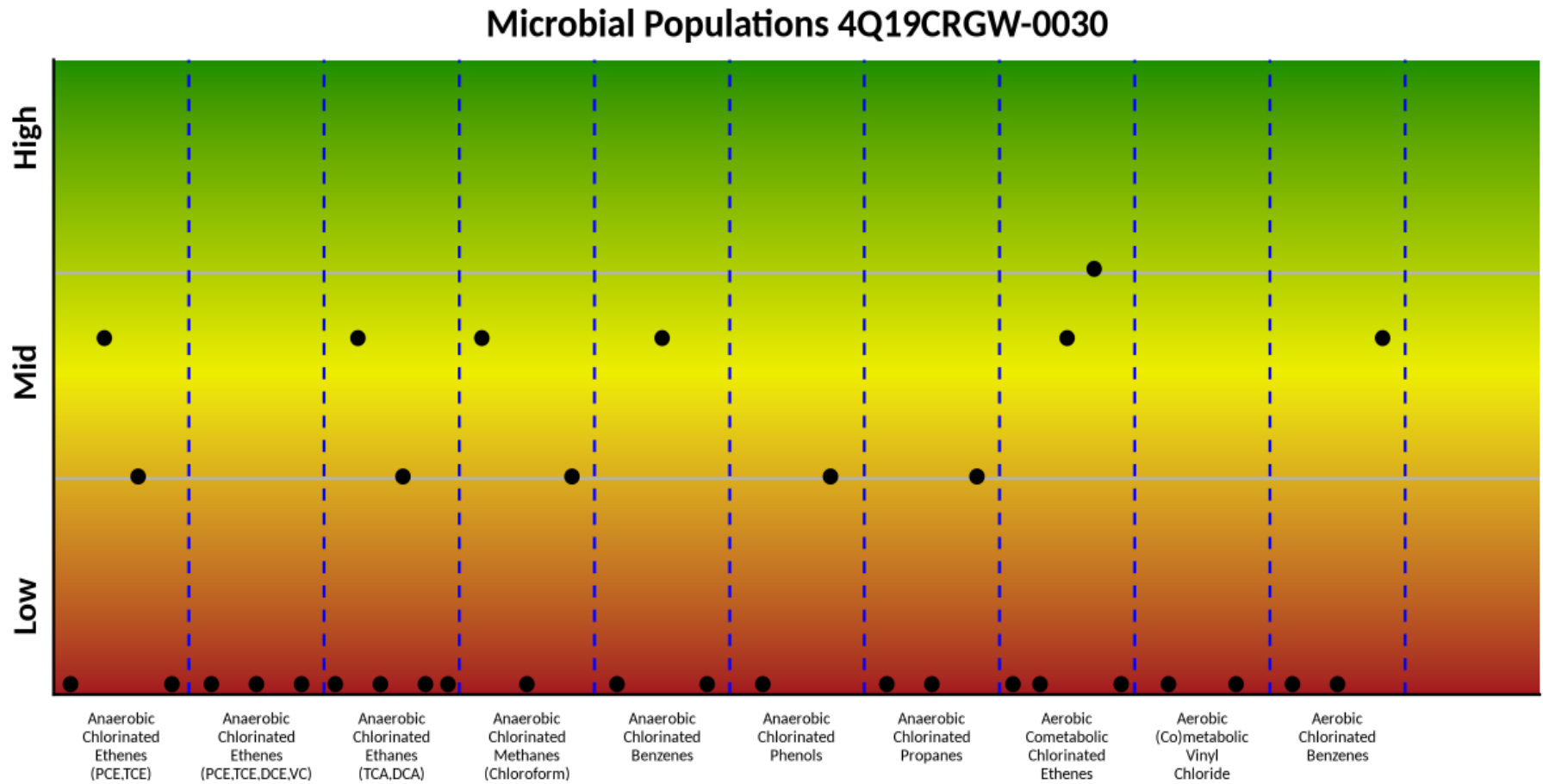


Figure 22. CRW026C Microbial Activity January 2020

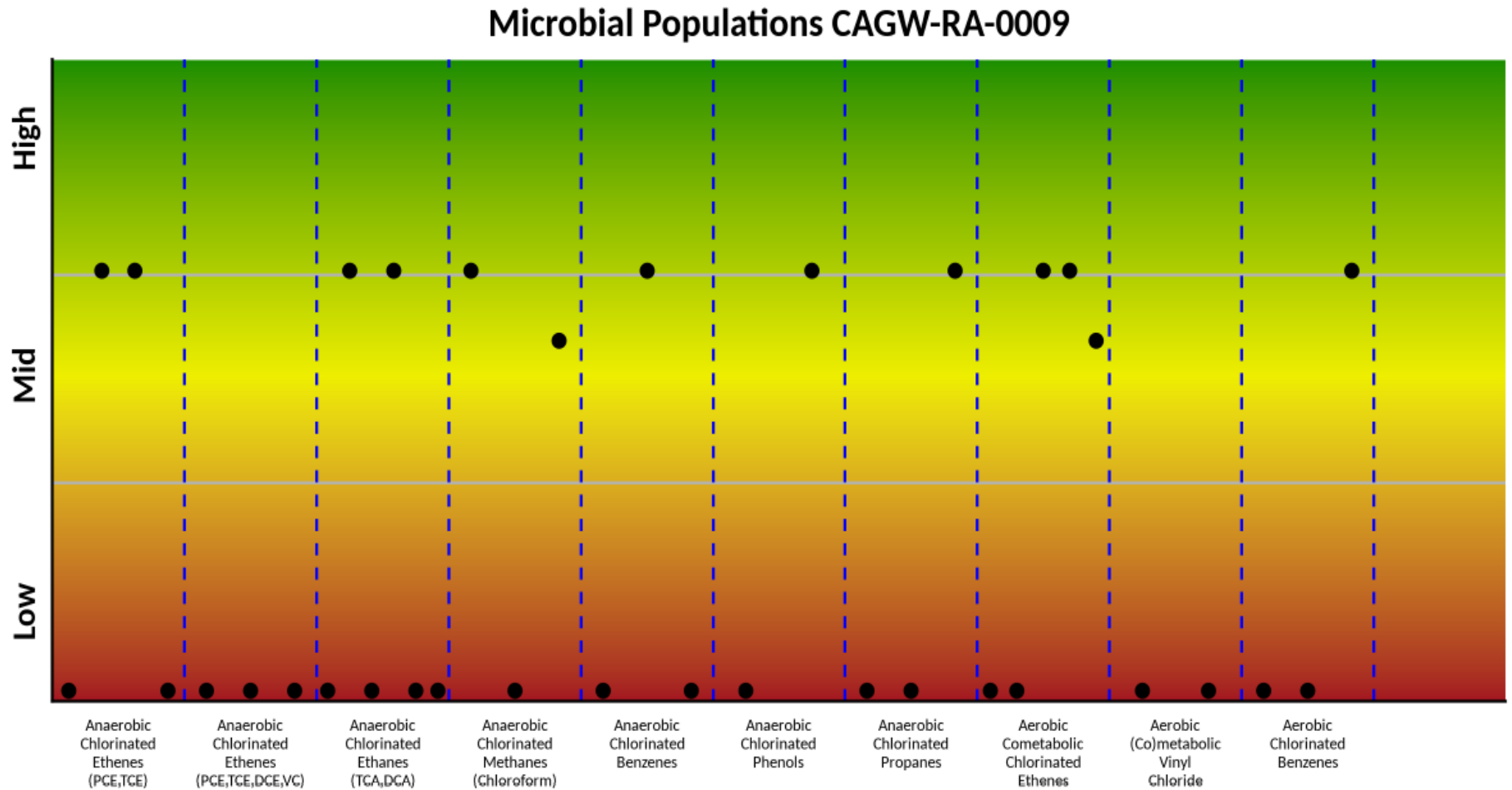


Figure 23. CRW026C Microbial Activity February 2020

Microbial Populations CAGW-RA00029

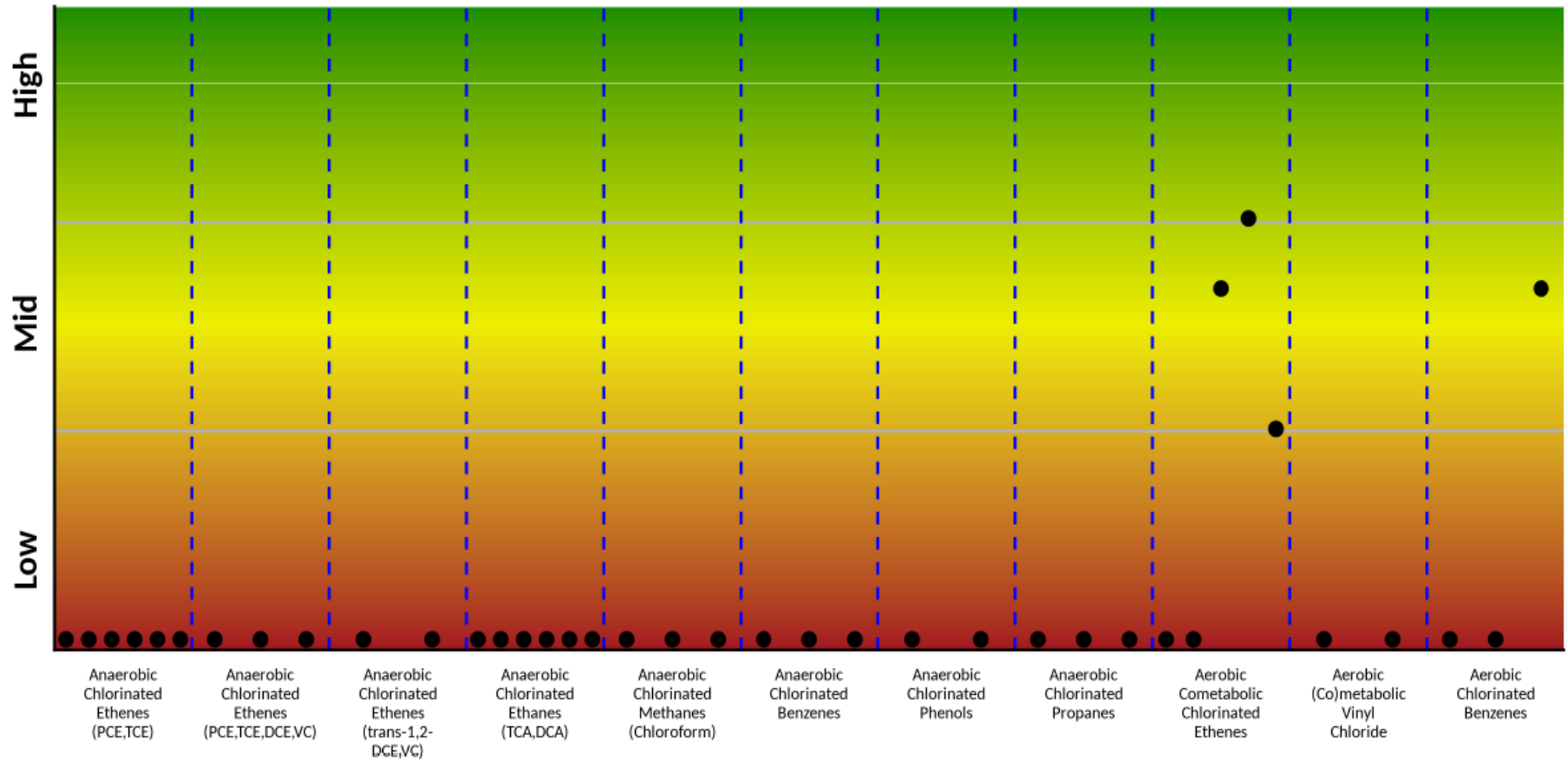


Figure 24. CRW026C Microbial Activity June 2020

Microbial Populations CAGW-RA-00041

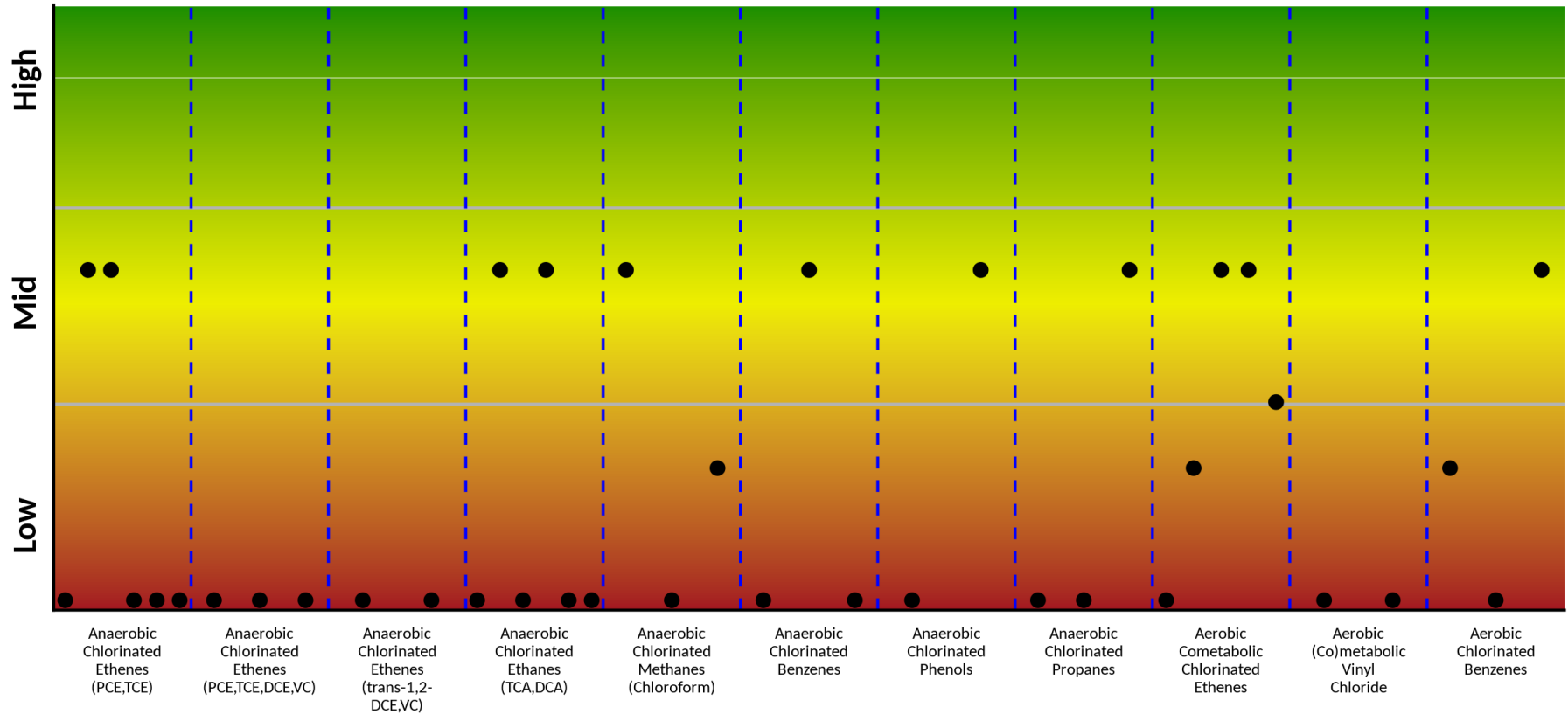


Figure 25. CRW026C Microbial Activity September 2020

Microbial Populations CAGW-RA-00061

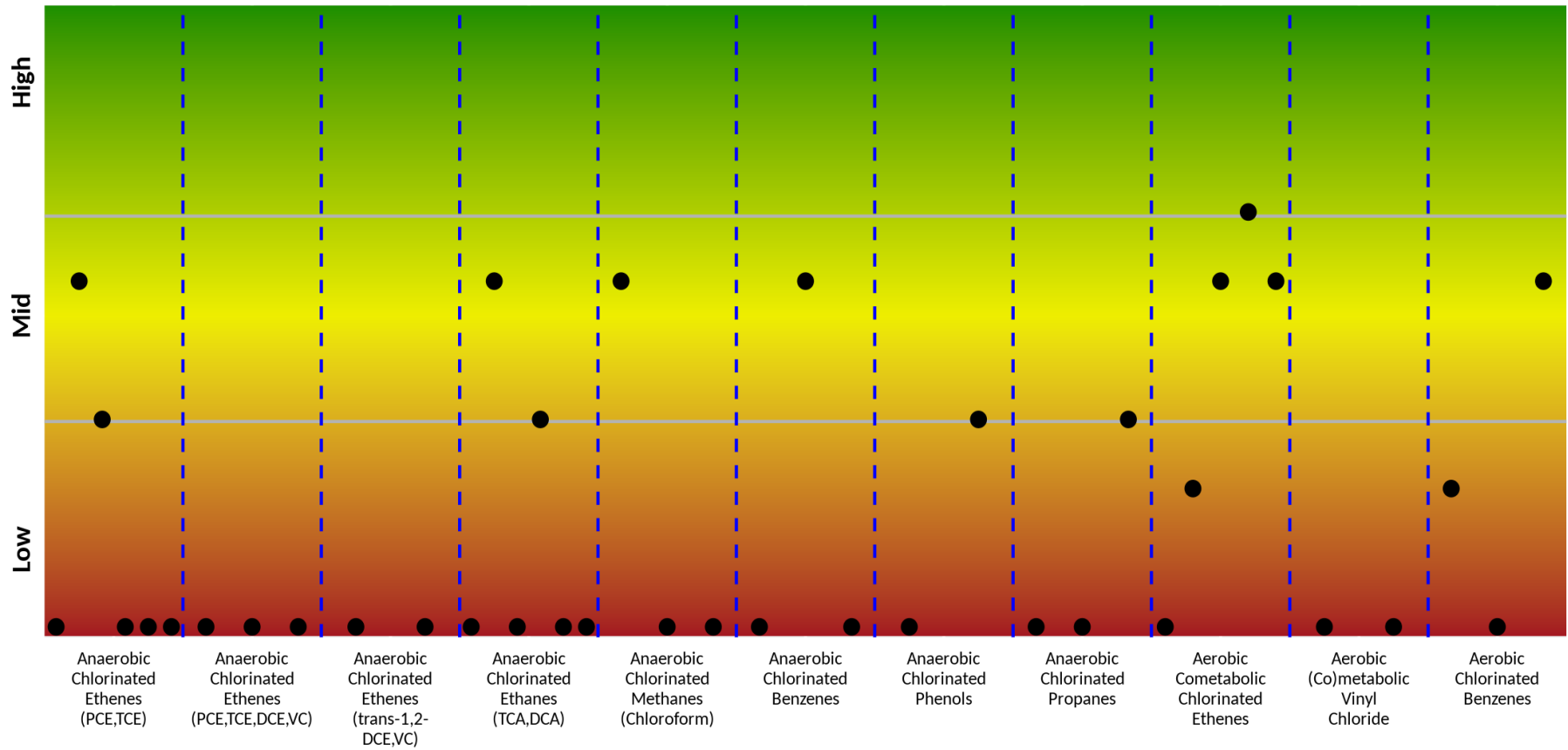


Figure 26. CRW026C Microbial Activity December 2020

Microbial Populations CAGW-RA-00067

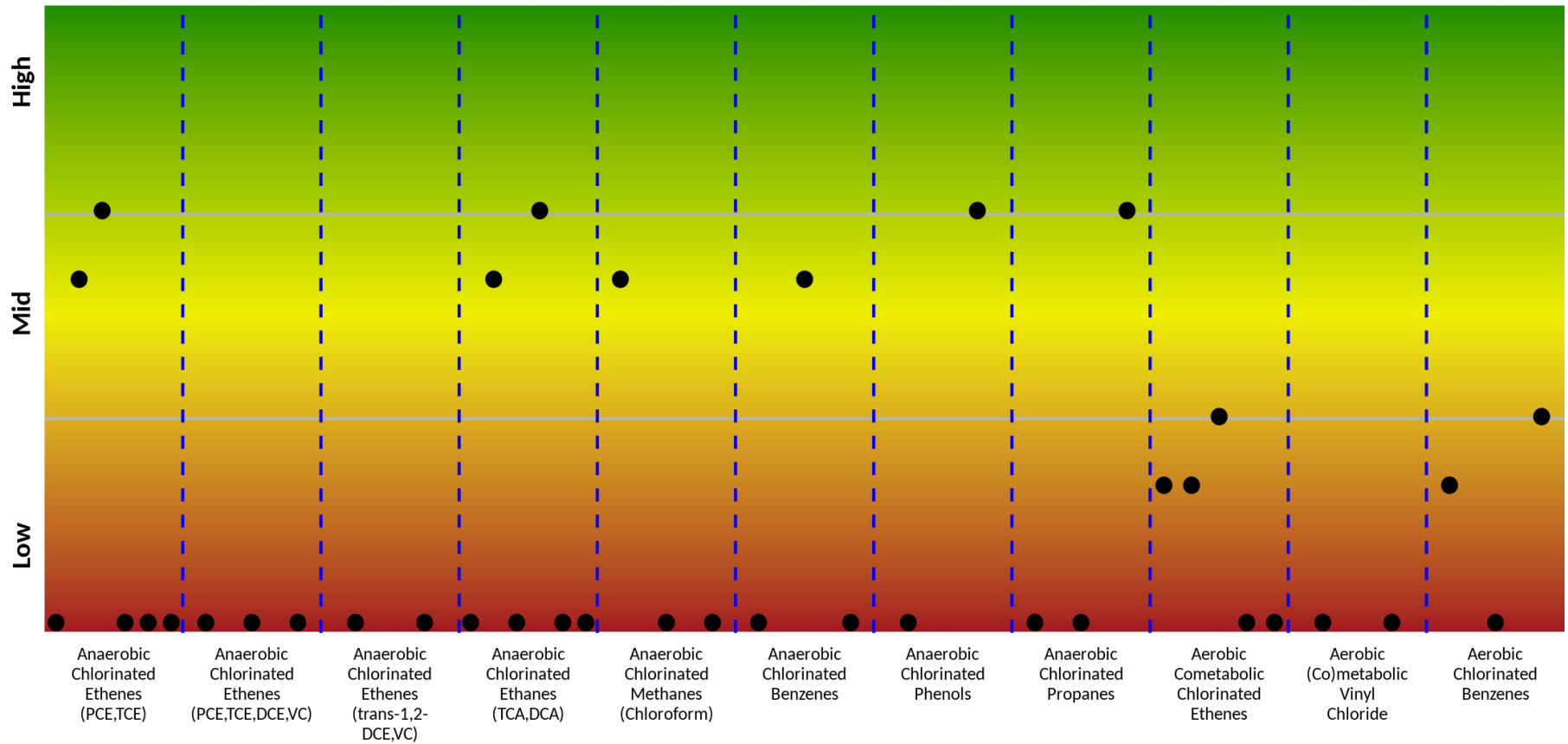


Figure 27. CRW026C Microbial Activity June 2021

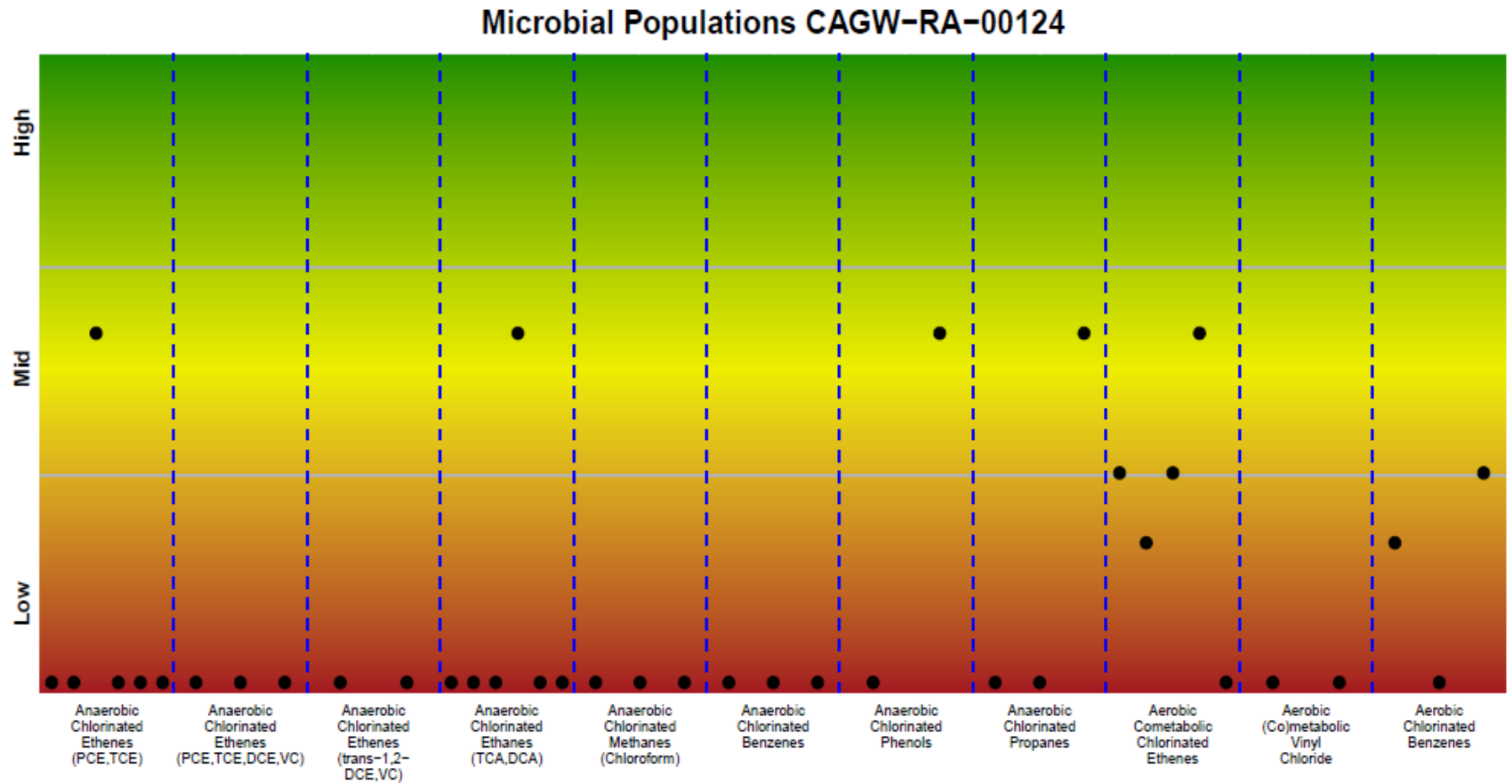


Figure 28. CRW026C Microbial Activity November 2021

Microbial Populations CAGW-RA-00179

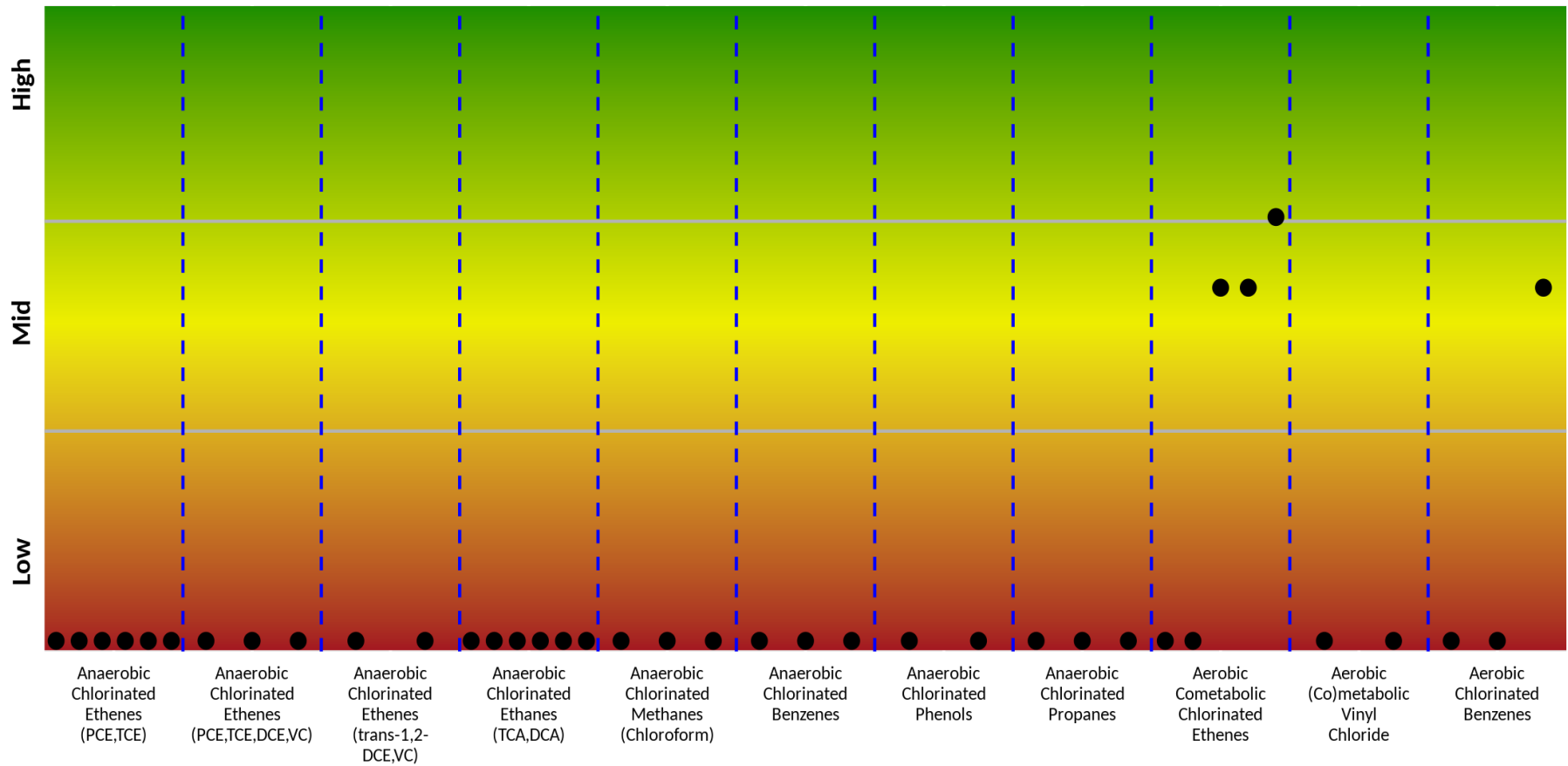


Figure 29. CRW026C Microbial Activity June 2022

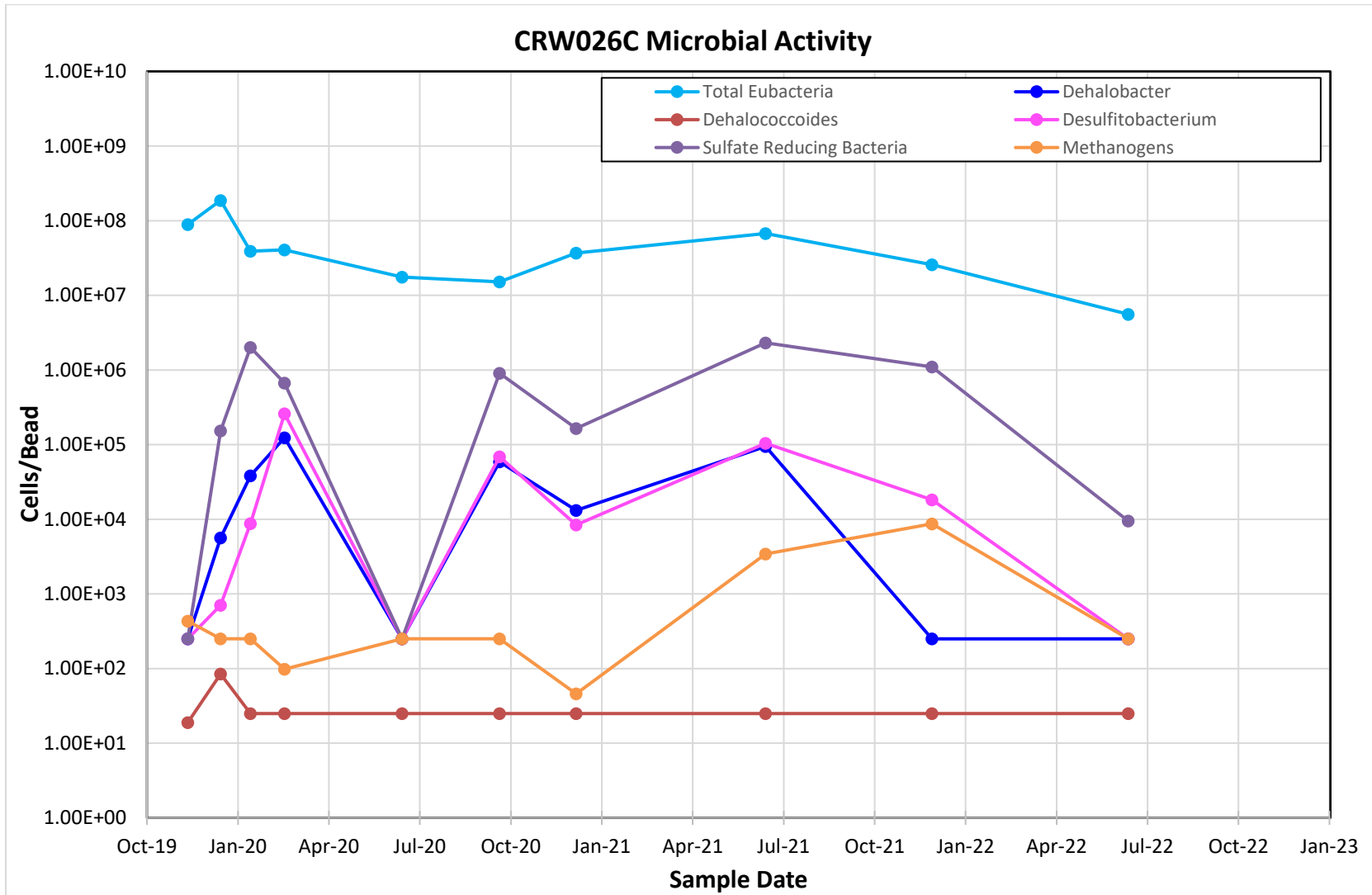


Figure 30. CRW026C Microbial Assemblages

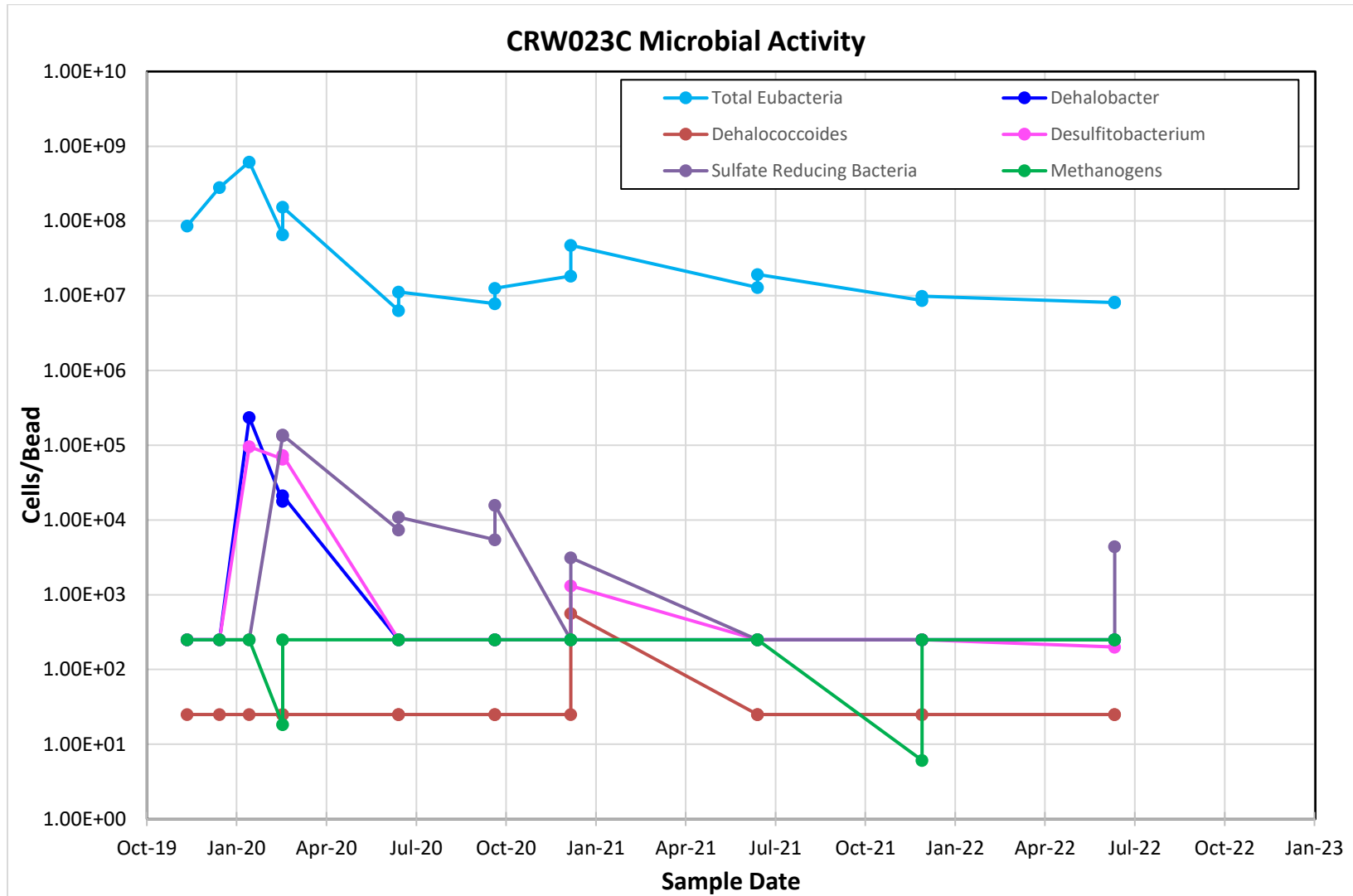


Figure 31. CRW023C Microbial Assemblages

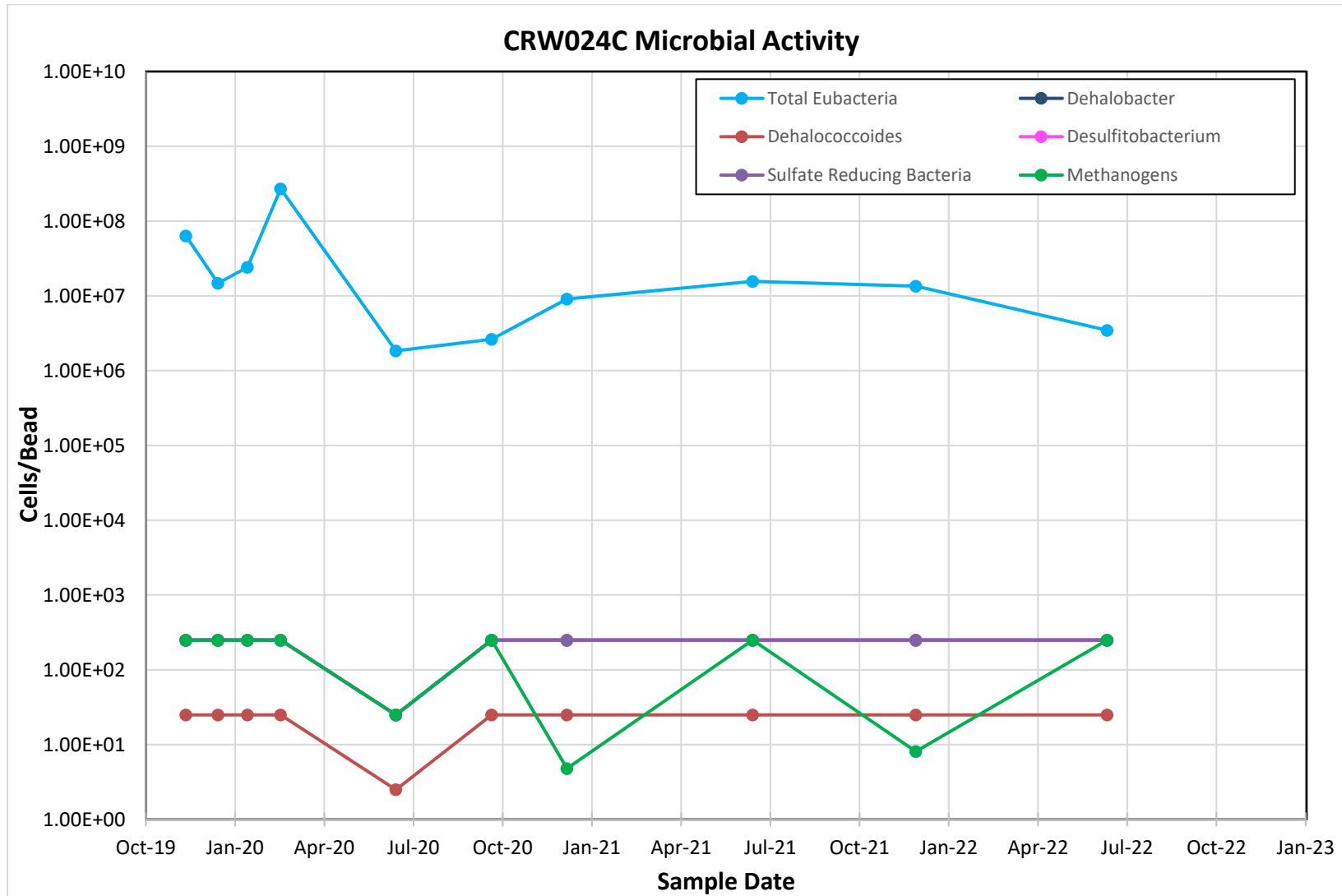


Figure 32. CRW024C Microbial Assemblages

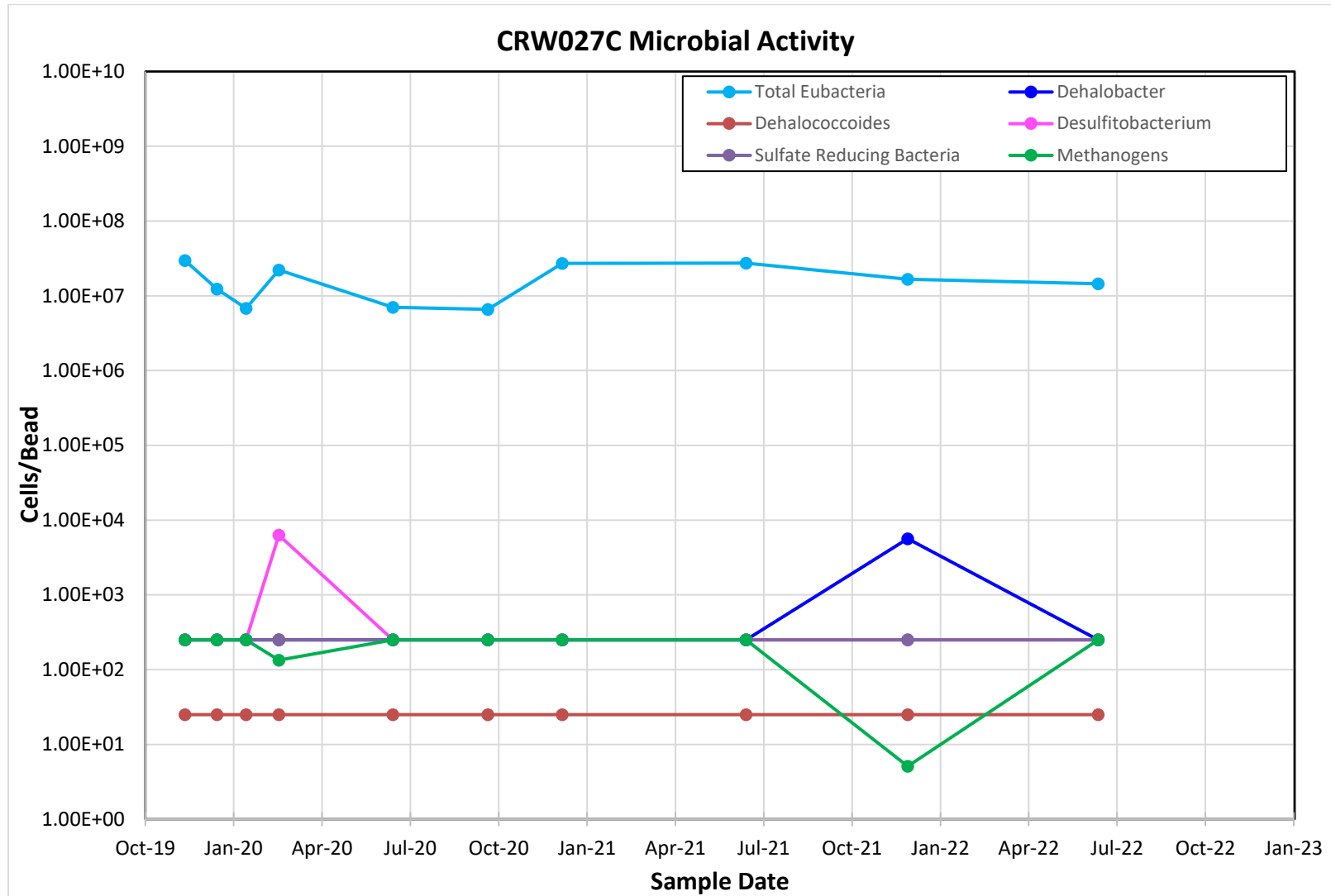


Figure 33. CRW027C Microbial Assemblages

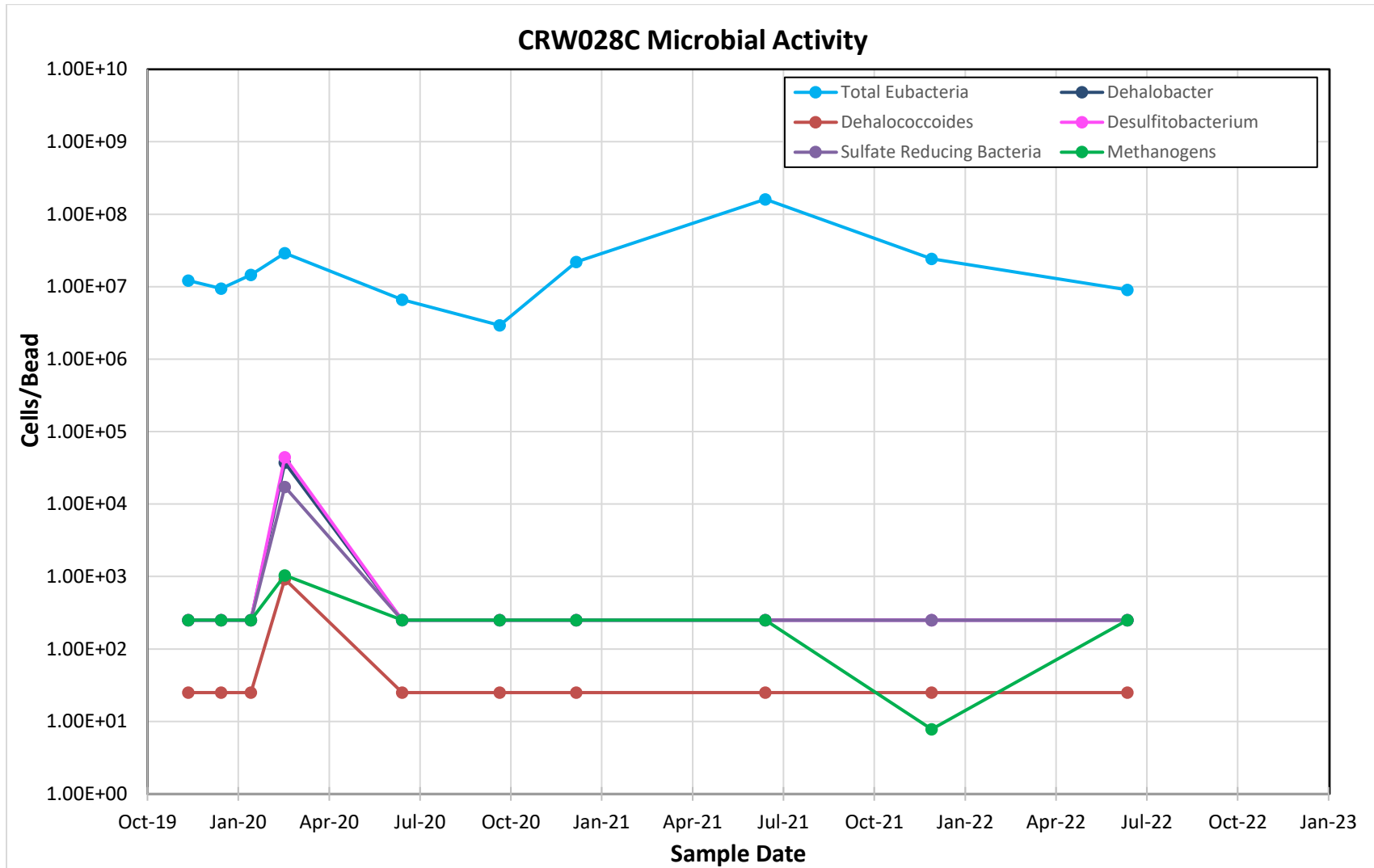


Figure 34. CRW028C Microbial Assemblages

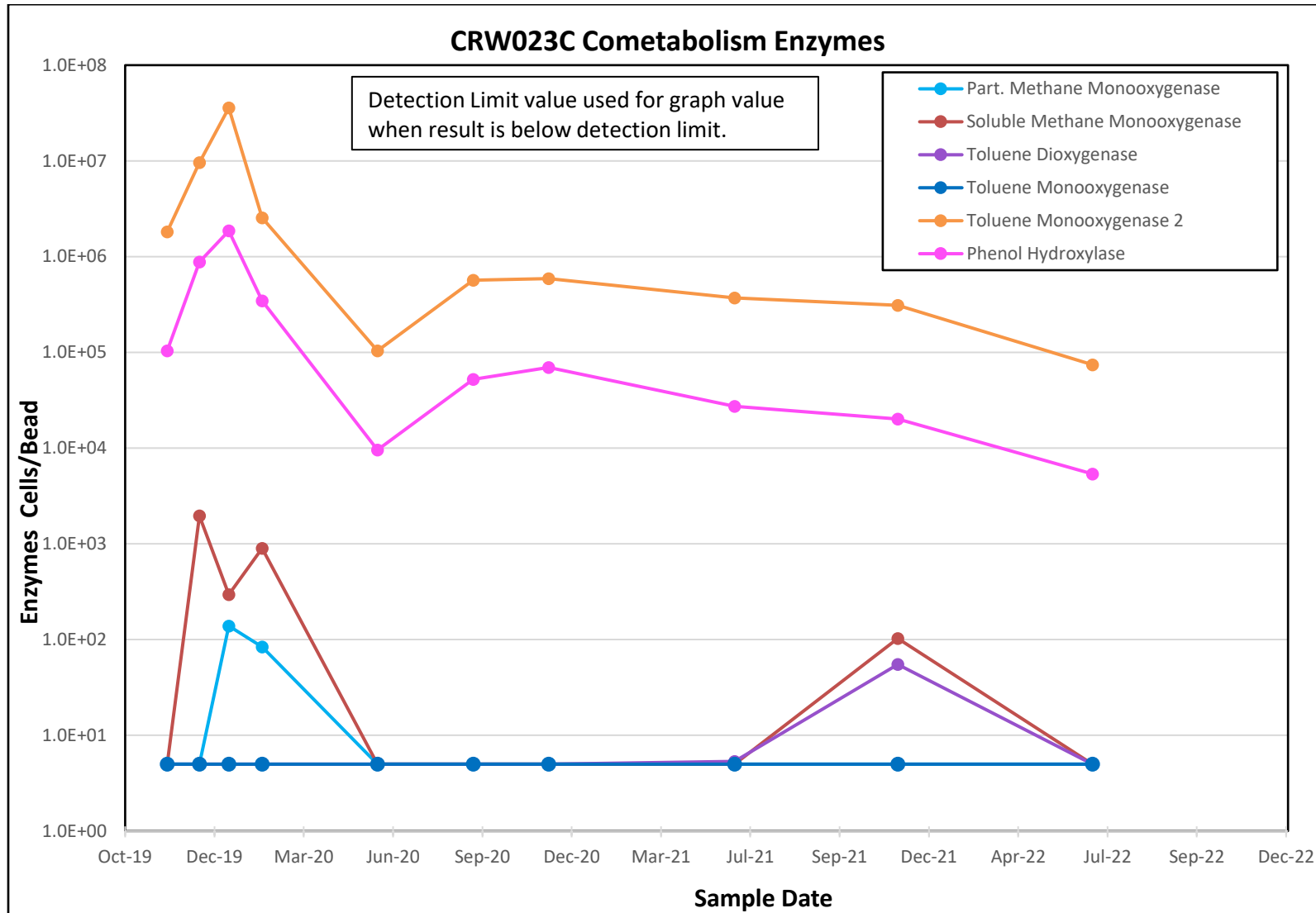


Figure 35. CRW023C (Co)Metabolism Enzymes

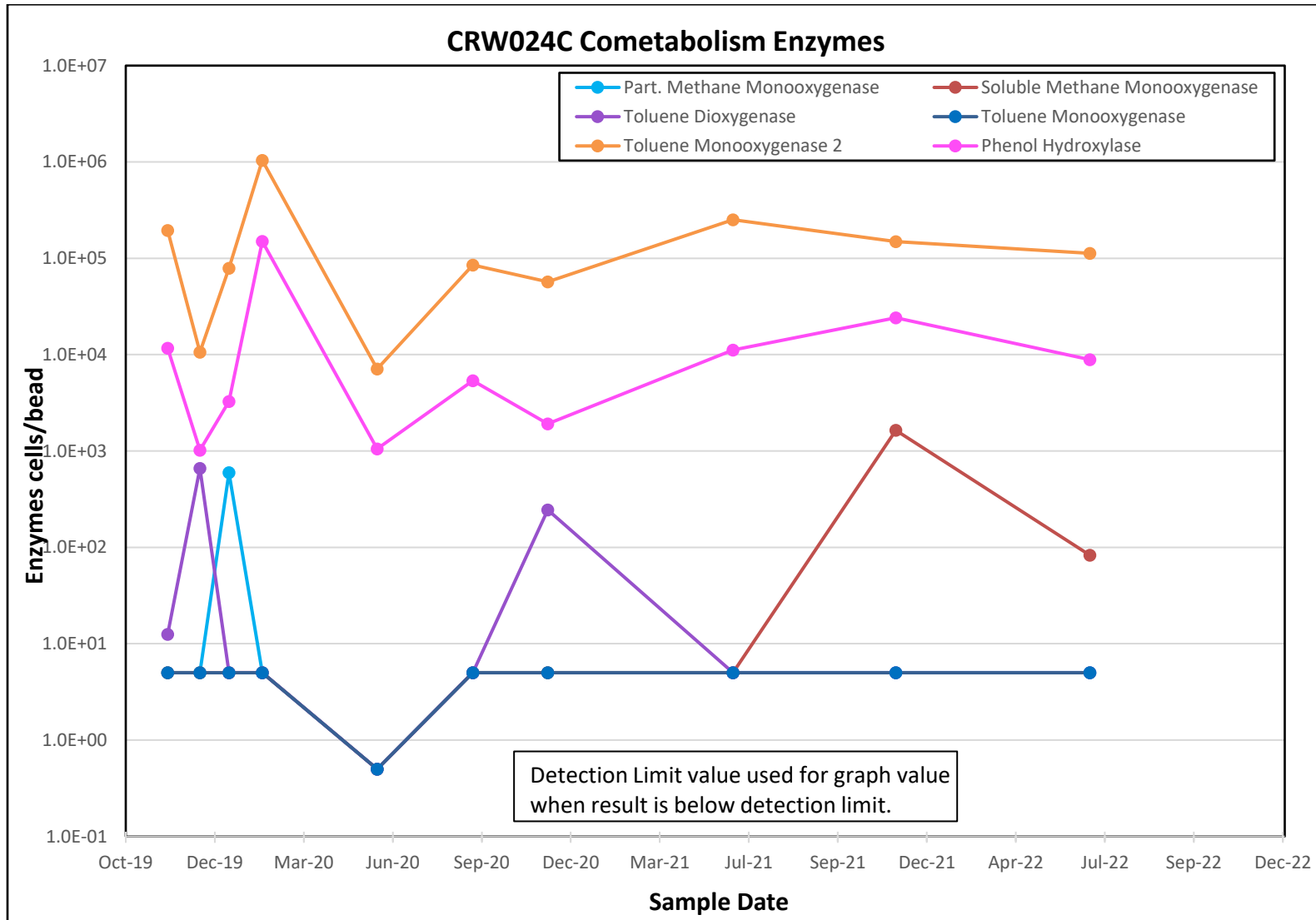


Figure 36. CRW024C (Co)Metabolism Enzymes

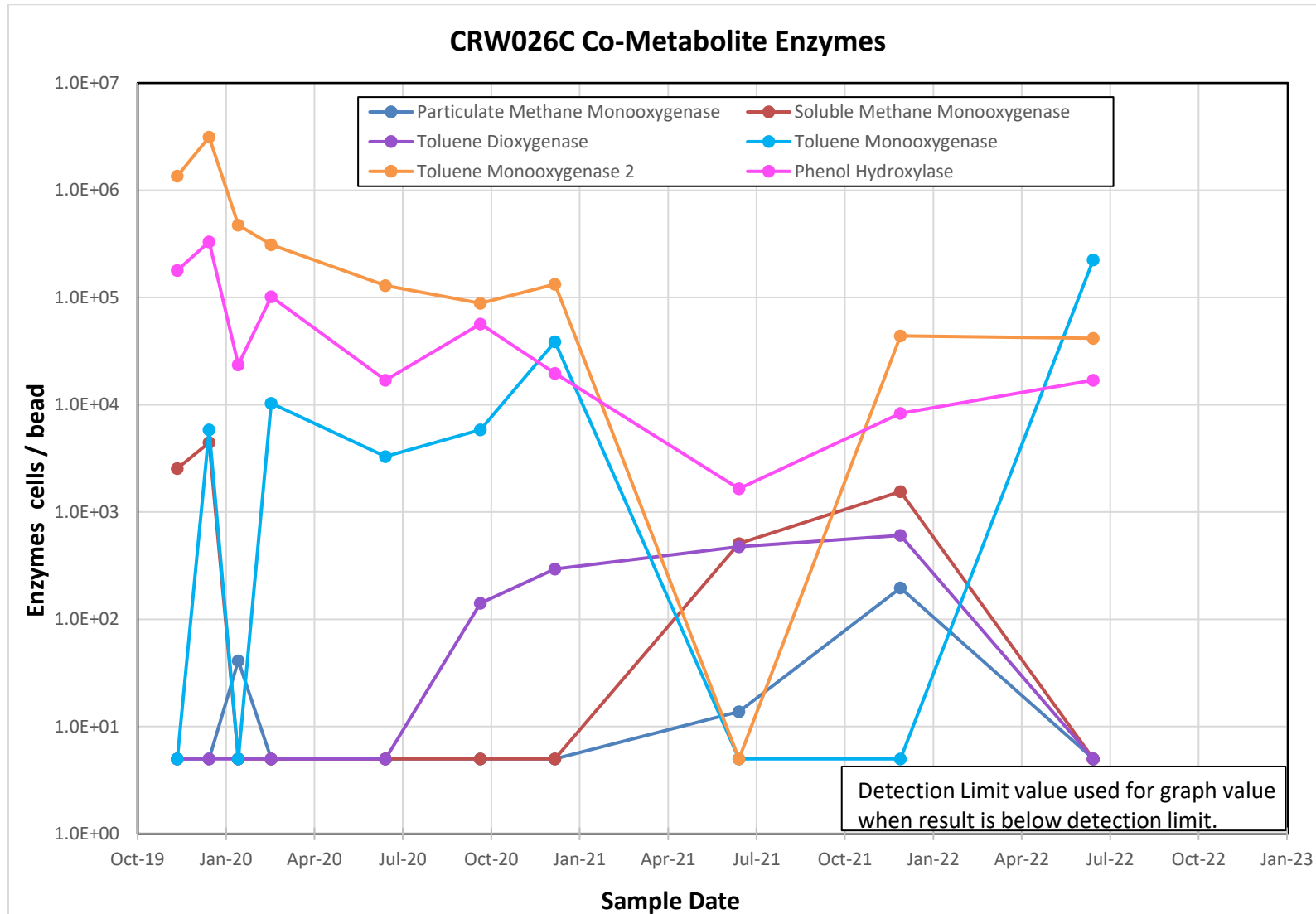


Figure 37. CRW026C (Co)Metabolism Enzymes

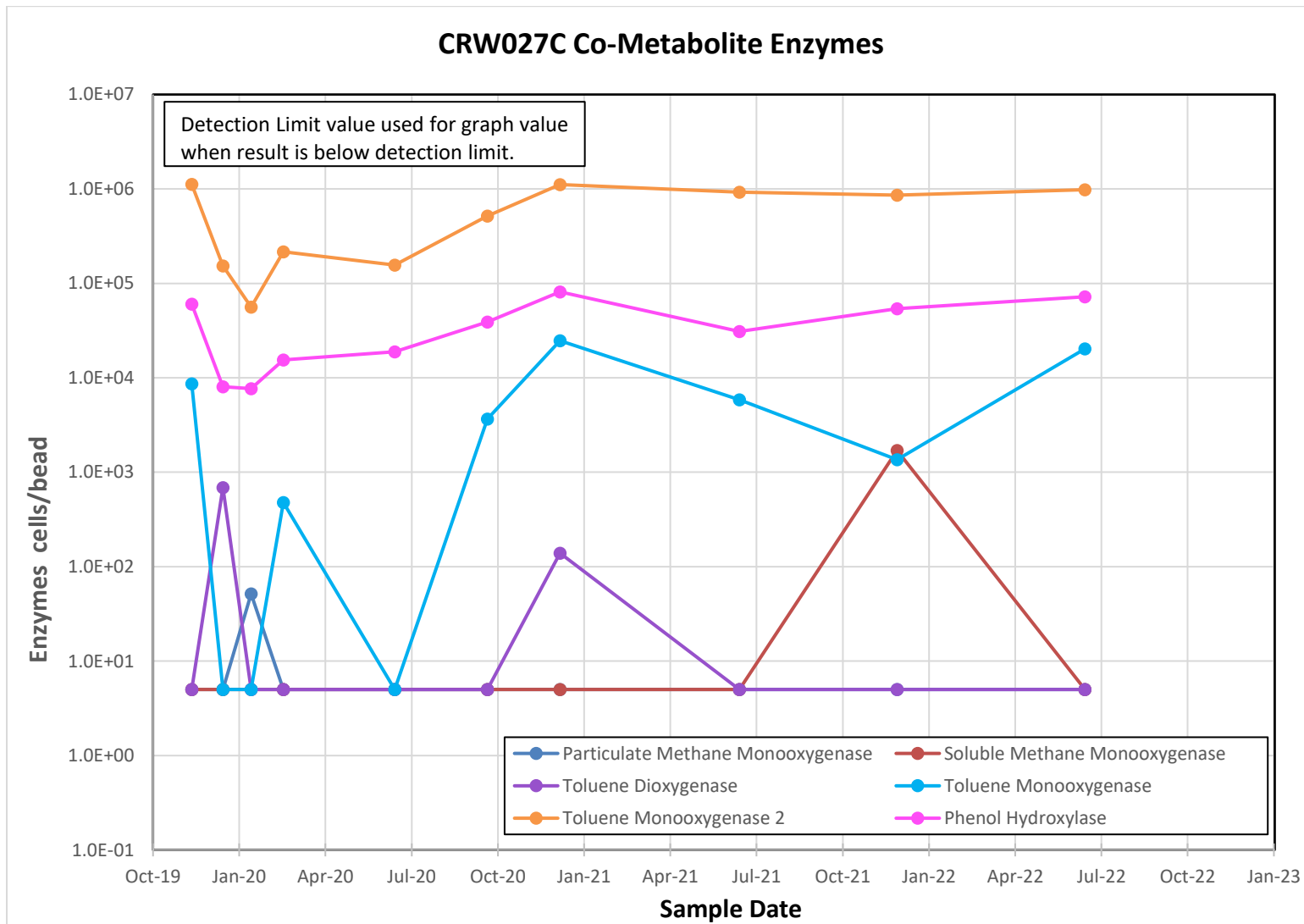


Figure 38. CRW027C (Co)Metabolism Enzymes

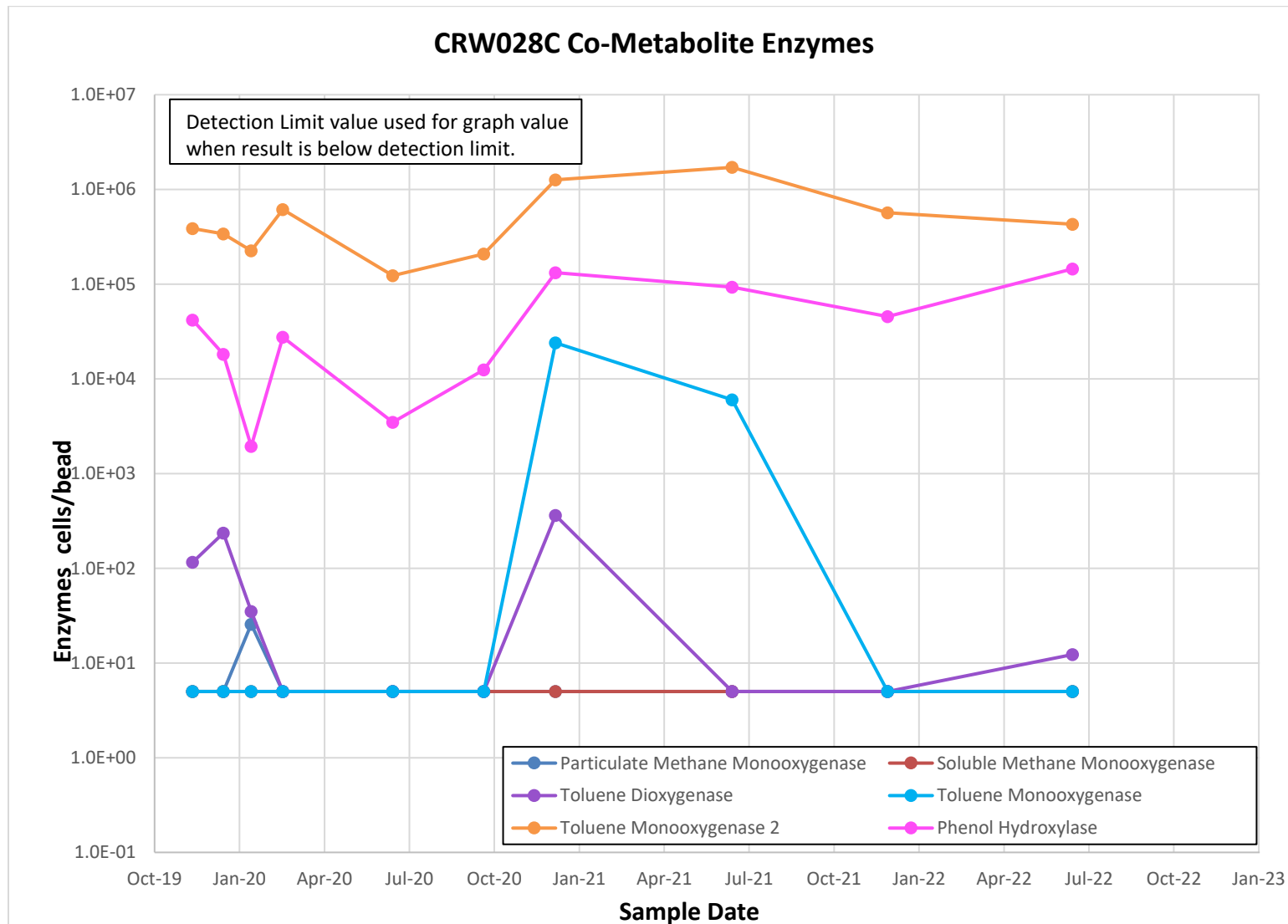


Figure 39. CRW028C (Co)Metabolism Enzymes

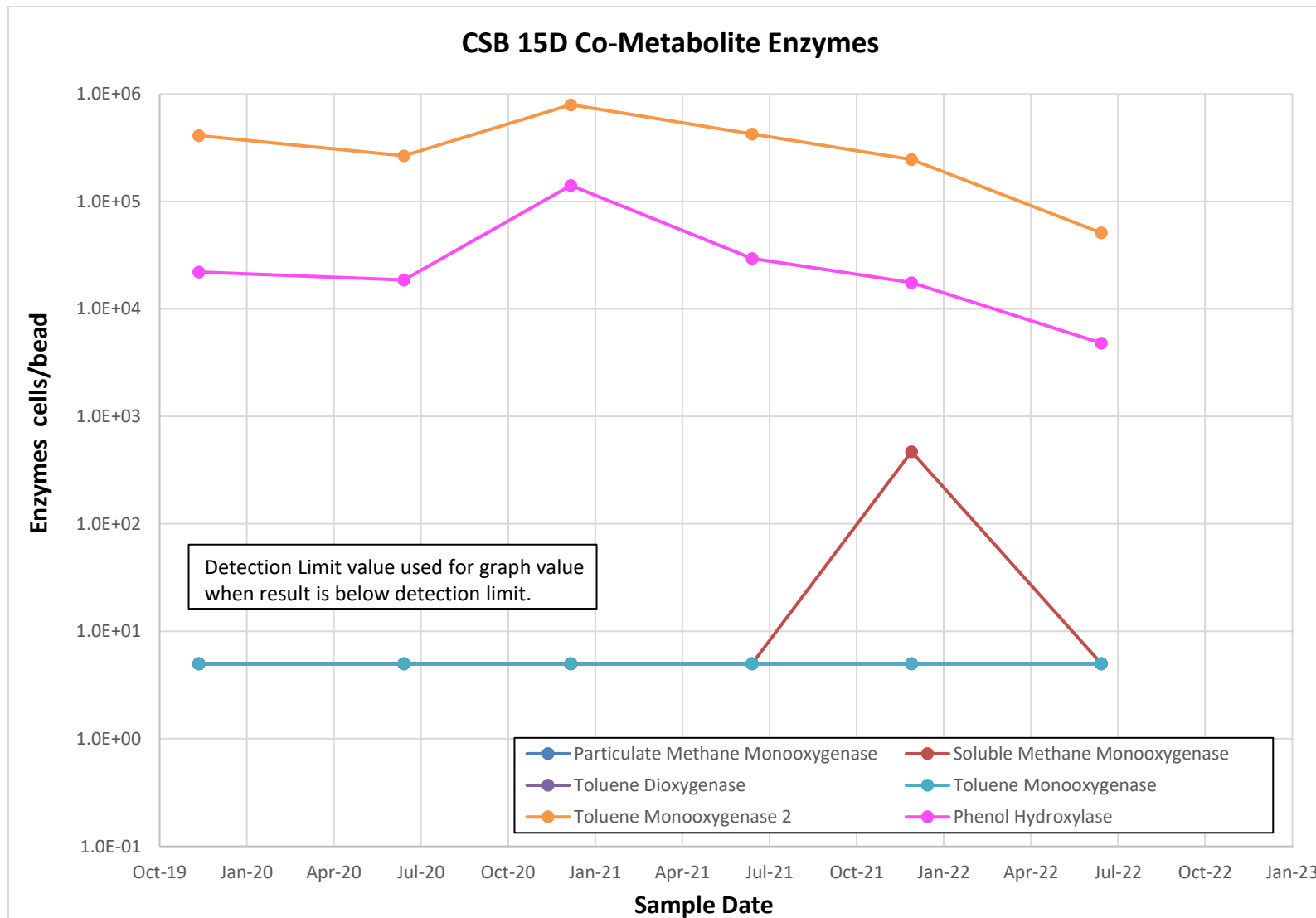


Figure 40. CSB 15D (Co)Metabolism Enzymes

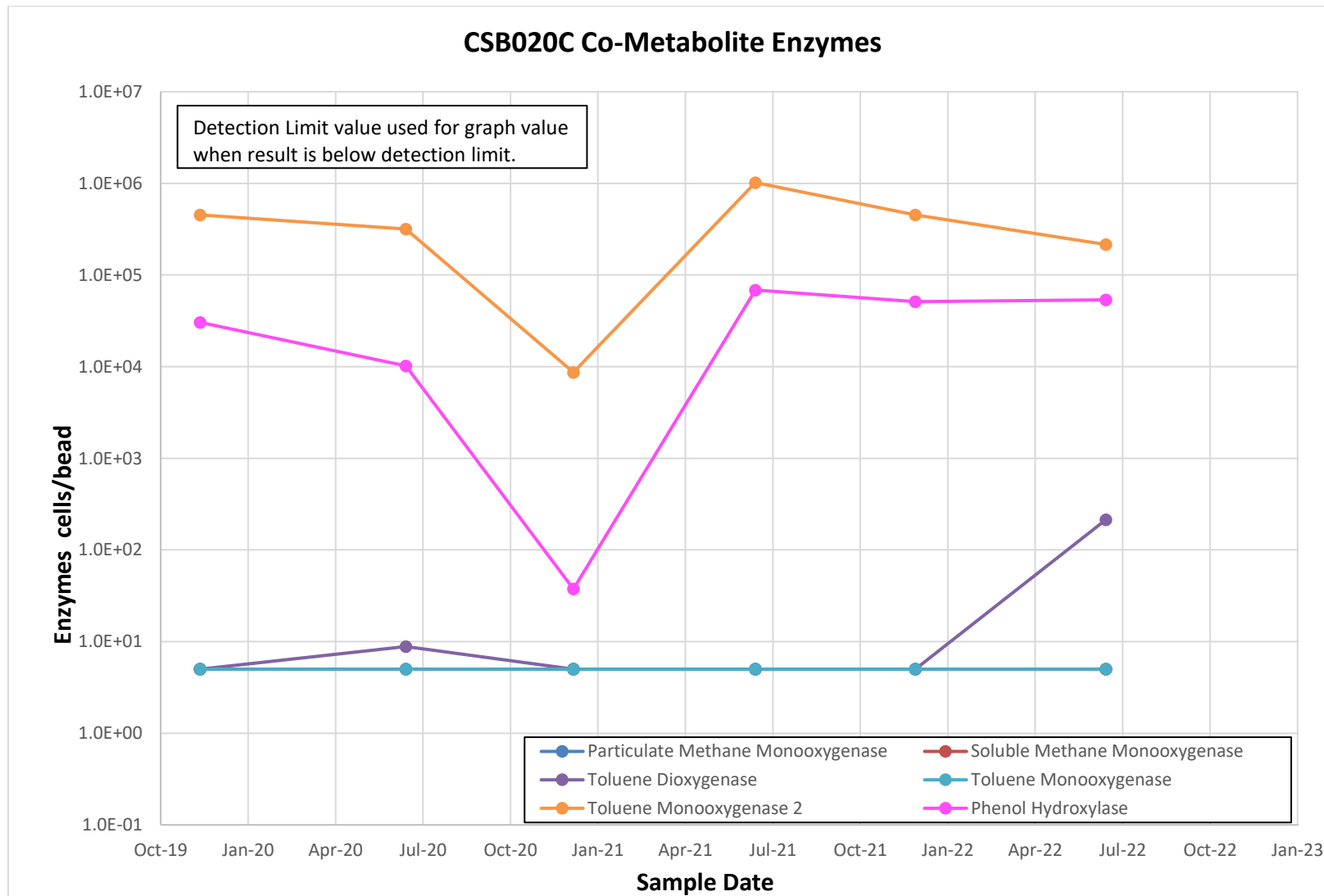


Figure 41. CSB020C (Co)Metabolism Enzymes

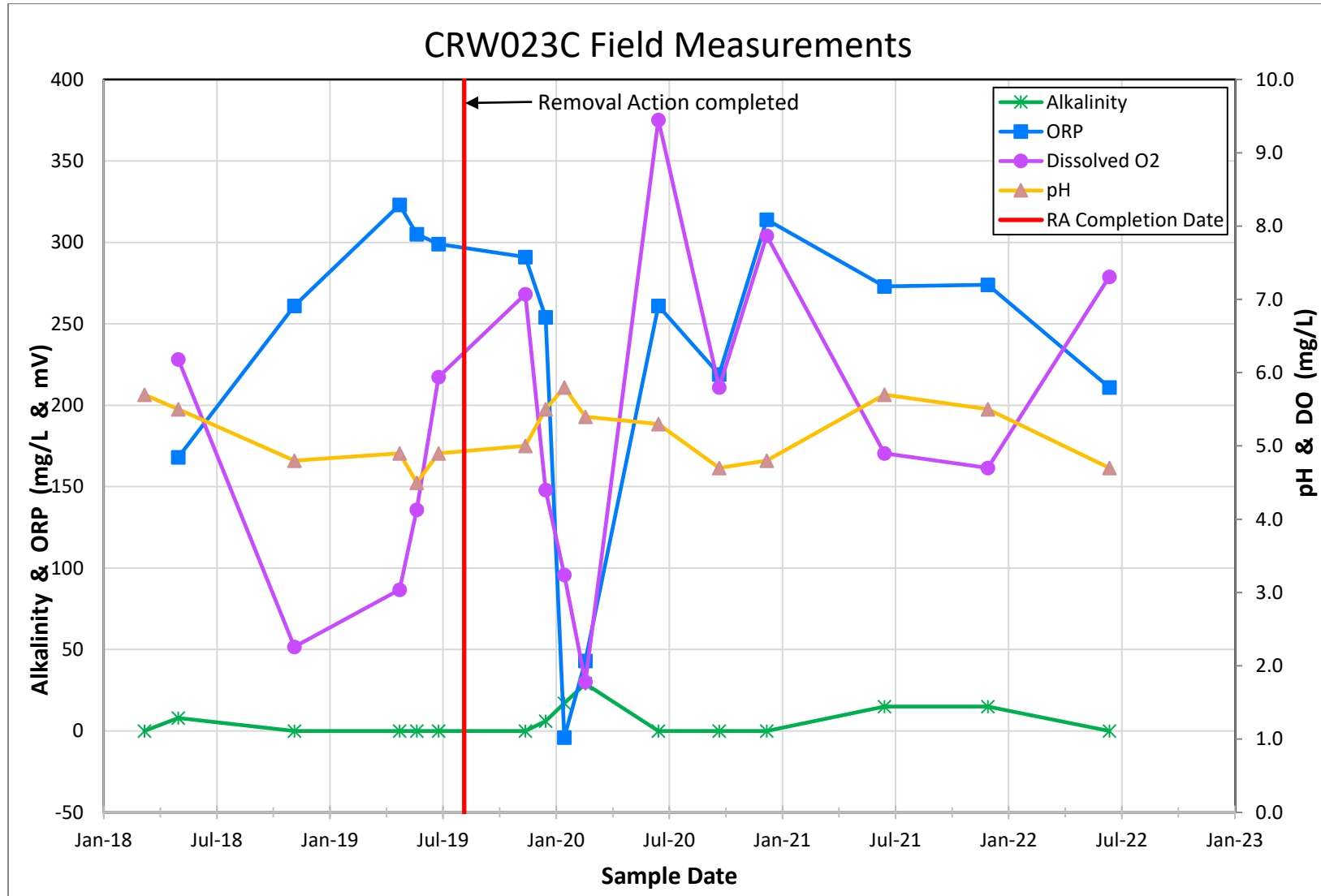


Figure 42. CRW023C Field Measurement Trends

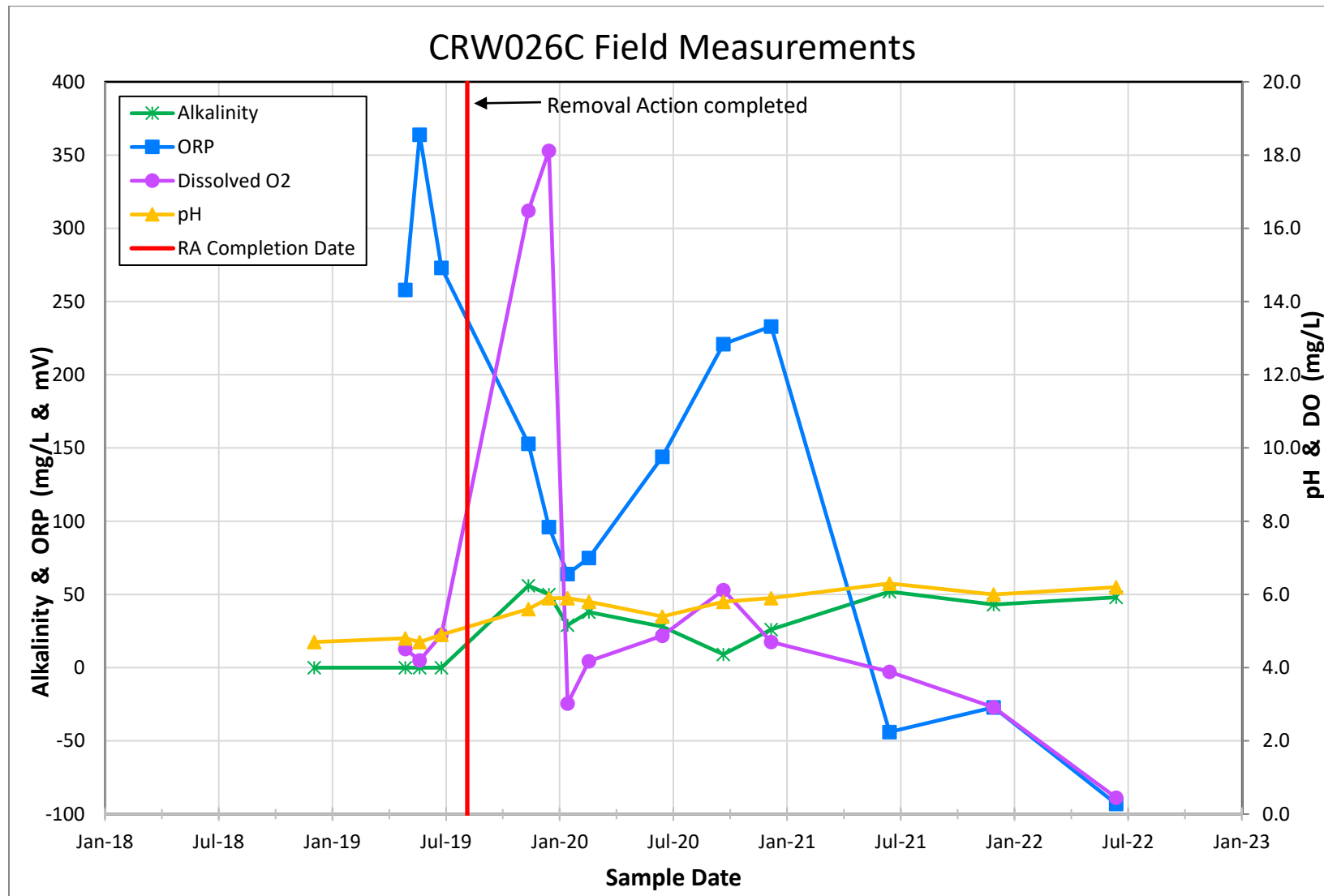


Figure 43. CRW026C Field Measurement Trends

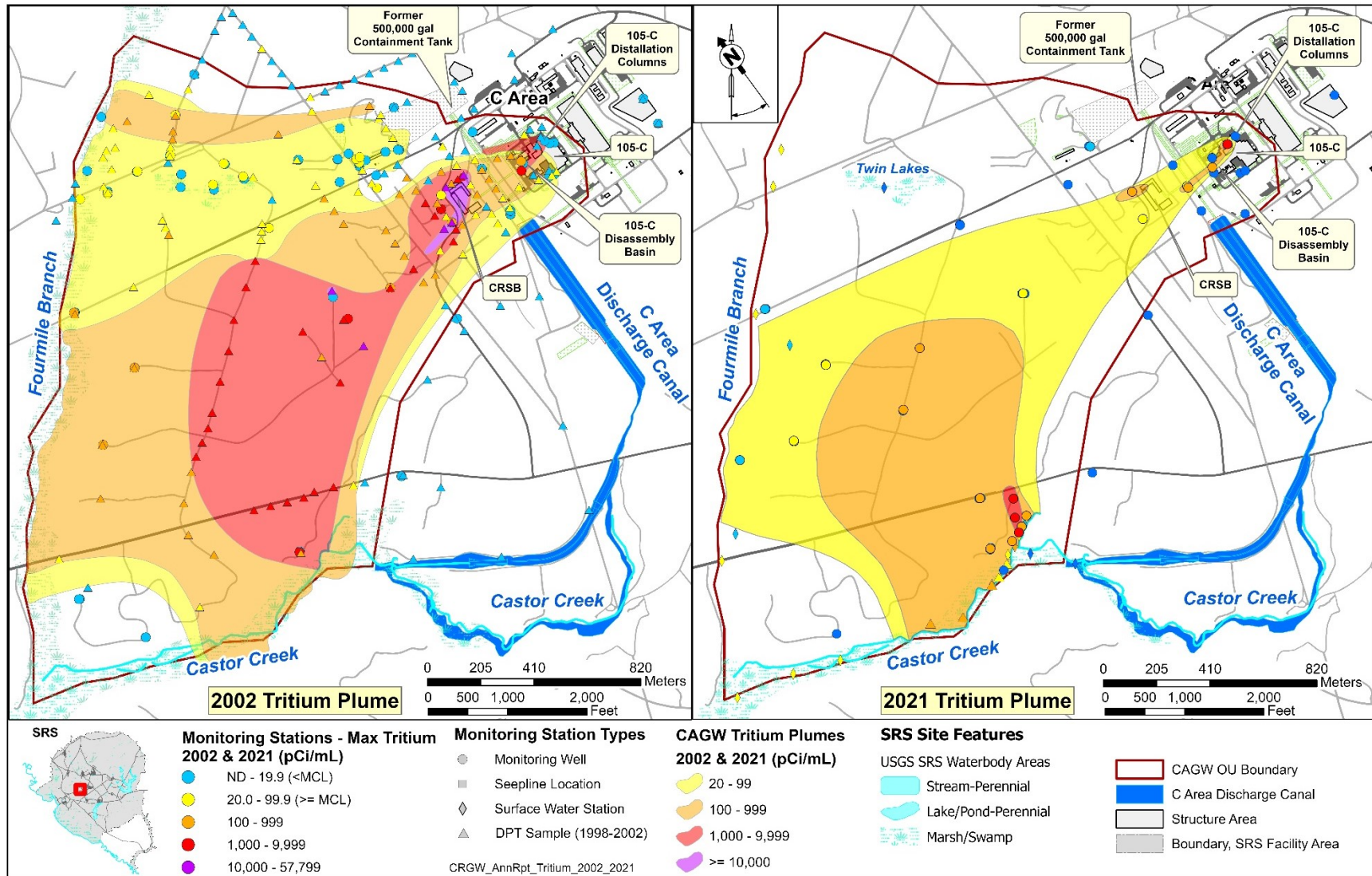


Figure 44. CAGW OU Tritium Plume 2002 and 2021

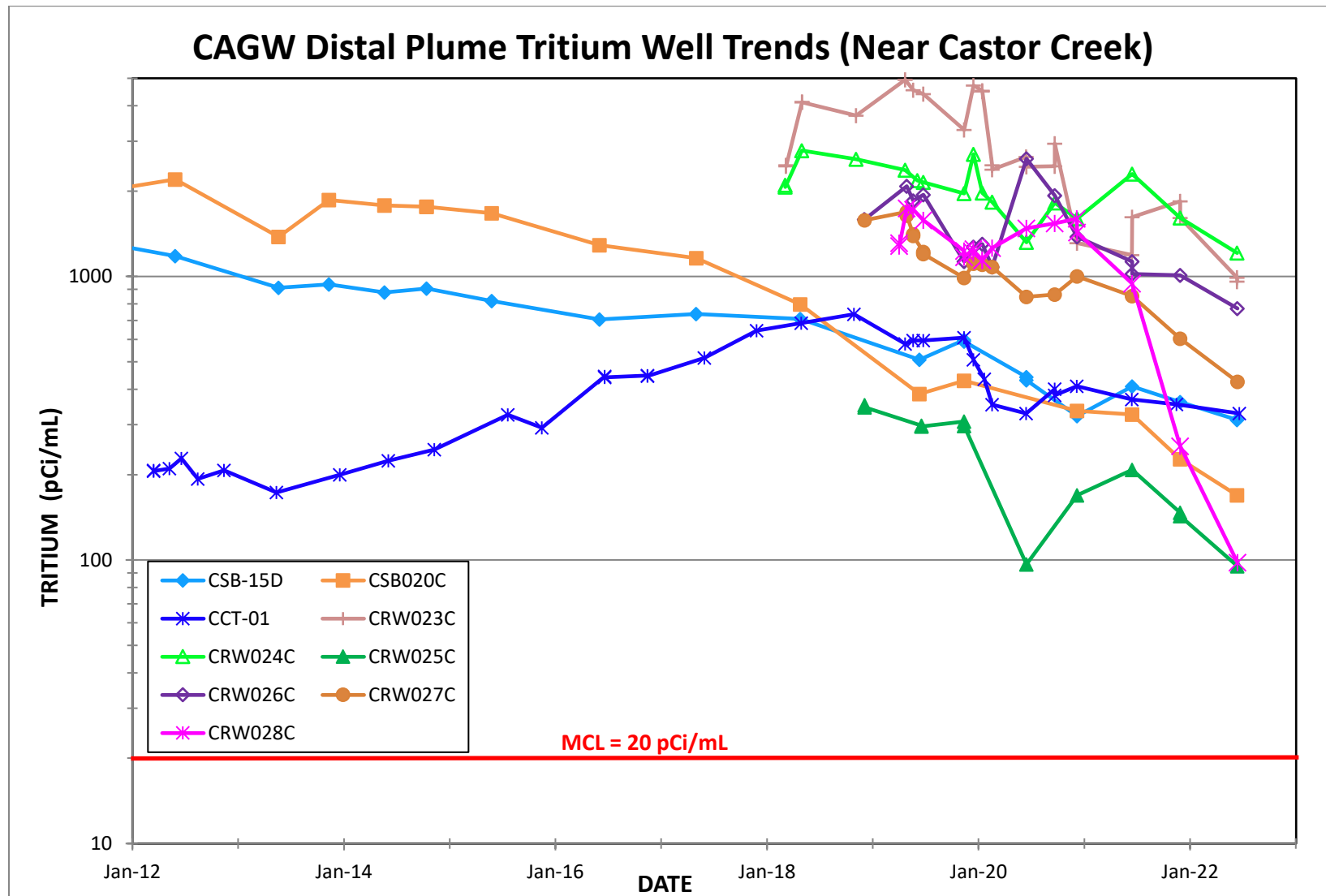


Figure 45. CAGW OU Tritium Distal Plume Trends

Table 1. Sampling and Reporting Schedule

Fiscal Year	Quarter	RA Stations	RA Peripheral Stations	CAGW OU Stations	Report
FY2020	Oct-Dec	M			
	Jan-Mar	X			
	Apr-Jun	X	X	X	
	July-Sep	X			X
FY2021	Oct-Dec	X	X	X	
	Jan-Mar				
	Apr-Jun	X	X	X	
	July-Sep				X
FY2022	Oct-Dec	X	X	X	
	Jan-Mar				
	Apr-Jun	X	X	X	
	July-Sep				X
FY2023	Oct-Dec	X	X	X	
	Jan-Mar				
	Apr-Jun	X	X	X	
	July-Sep				X
FY2024	Oct-Dec	X	X	X	
	Jan-Mar				
	Apr-Jun	X	X	X	
	July-Sep				X

Table 1 Notes:

M = Monthly

X = 1 sample event that quarter.

Table 2. MCLs for Groundwater Constituents

VOCs and Tritium	MCL	Units
1,2-dichloroethylene*	70	µg/L
cis-1,2-dichloroethylene	70	µg/L
Tetrachloroethylene	5	µg/L
trans-1,2-dichloroethylene	100	µg/L
Trichloroethylene	5	µg/L
Tritium	20	pCi/mL
Vinyl Chloride	2	µg/L

Table 3. CAGW OU and CAGW OU NTC RA Maximum Concentrations

Station ID	Well Type	Constituent	Maximum July 2021 – June 2022	Monitoring Program
CRW021DR	Monitoring Well	1,2-dichloroethylene	0.95 µg/L	CAGW OU
CRW021DR	Monitoring Well	cis-1,2-dichloroethylene	0.95 µg/L	CAGW OU
CRW010CU	Monitoring Well	Tetrachloroethylene	0.77 µg/L	CAGW OU
CRW021DR*	Monitoring Well	trans-1,2-dichloroethylene	MDL 0.333 µg/L	CAGW OU
CRW020D	Monitoring Well	Trichloroethylene	153 µg/L	CAGW OU
CTA003D	Monitoring Well	Tritium	1,280 pCi/mL	CAGW OU
CRW021DR*	Monitoring Well	Vinyl Chloride	MDL 0.333 µg/L	CAGW OU
CCSL-11	Seepline Station	1,2-dichloroethylene	1.82 µg/L	CAGW OU NTC RA
CCT 03	Seepline Station	cis-1,2-dichloroethylene	0.88 µg/L	CAGW OU NTC RA
CCSL-14	Monitoring Well	Tetrachloroethylene	0.85 µg/L	CAGW OU NTC RA
CCT 03*	Monitoring Well	trans-1,2-dichloroethylene	MDL 0.333 µg/L	CAGW OU NTC RA
CSB020C	Monitoring Well	Trichloroethylene	38.4 µg/L	CAGW OU NTC RA
CRW023C	Monitoring Well	Tritium	1,610 pCi/mL	CAGW OU NTC RA
CCT 03*	Monitoring Well	Vinyl Chloride	MDL 0.333 µg/L	CAGW OU NTC RA

Table 3 Notes:
 * = All stations had results less than the MDL. Wells selected based on highest cis-1,2-dichloroethylene results.
 MDL = Method Detection Limit (value).

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-08	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Sulfate Reducing Bacteria	Other	1.05E+02	J	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-08	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.25E+03	=	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-08	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-08	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Desulfotobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Desulfotobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	6.12E+03	=	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	6.88E+01	J	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Total Eubacteria	Other	2.70E+07	=	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-08	6/13/22	Total Eubacteria	Other	7.99E+06	=	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Methanogens	Other	3.66E+01	J	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.80E+05	=	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.32E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	4.30E+05	=	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	1.96E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.06E+05	=	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.05E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	3.28E+03	=	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-08	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-08	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-08	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-08	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-11	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-11	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	1.28E+03	=	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.63E+03	=	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-11	6/13/22	Dehalococcoides	Reductive Dechlorination	9.30E+00	J	cells/bead	5.00E+00	2.50E+01
CCSL-11	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00

Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-11	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	1.20E+04	=	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Total Eubacteria	Other	7.40E+07	=	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Total Eubacteria	Other	1.44E+07	=	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Methanogens	Other	6.80E+00	J	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Methanogens	Other	1.43E+01	J	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.11E+05	=	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.07E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	9.67E+05	=	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	3.81E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	5.32E+02	=	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	1.48E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-11	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-11	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-11	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-11	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-14	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-14	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-14	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-14	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-14	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	1.91E+03	=	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	9.64E+03	=	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Total Eubacteria	Other	3.31E+07	=	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Total Eubacteria	Other	2.17E+07	=	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	3.15E+04	=	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.53E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	7.37E+05	=	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	7.46E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	1.11E+04	=	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	1.34E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-14	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-14	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-14	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-23R	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-23R	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-23R	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-23R	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00

Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-23R	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Desulfotobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Desulfotobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	7.26E+02	=	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Total Eubacteria	Other	9.82E+06	=	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Total Eubacteria	Other	1.16E+07	=	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Methanogens	Other	9.40E+00	J	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Methanogens	Other	8.80E+00	J	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	4.15E+04	=	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	4.29E+04	=	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	6.07E+04	=	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	1.98E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	1.03E+05	=	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CCSL-23R	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CCSL-23R	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CCSL-23R	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CCSL-23R	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Sulfate Reducing Bacteria	Other	4.41E+03	=	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00

Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW023C	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW023C	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	2.00E+02	J	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	1.33E+02	J	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Total Eubacteria	Other	8.65E+06	=	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Total Eubacteria	Other	9.90E+06	=	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Total Eubacteria	Other	8.12E+06	=	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Total Eubacteria	Other	8.27E+06	=	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Methanogens	Other	6.10E+00	J	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW023C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.06E+04	=	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	2.98E+04	=	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	4.92E+03	=	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	5.84E+03	=	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	2.70E+05	=	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	3.51E+05	=	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	7.09E+04	=	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	7.78E+04	=	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.00E+02	J	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW023C	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	1.05E+02	J	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW023C	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW023C	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW023C	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW023C	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW024C	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW024C	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW024C	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW024C	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW024C	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	4.93E+02	=	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	2.56E+02	=	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Total Eubacteria	Other	1.35E+07	=	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Total Eubacteria	Other	3.46E+06	=	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	9.84E+01	J	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Methanogens	Other	8.10E+00	J	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	2.42E+04	=	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	8.90E+03	=	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	1.49E+05	=	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	1.13E+05	=	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW024C	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	1.64E+03	=	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	8.31E+01	J	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW024C	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW024C	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW024C	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW025C	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW025C	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW025C	6/14/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW025C	6/14/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW025C	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	6.88E+01	J	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Desulfuromonas spp.	Reductive Dechlorination	1.33E+02	J	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Total Eubacteria	Other	2.89E+07	=	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Total Eubacteria	Other	6.30E+06	=	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Methanogens	Other	1.51E+01	J	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	7.30E+04	=	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	2.52E+04	=	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW025C	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	4.96E+05	=	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	1.12E+05	=	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW025C	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	6/14/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW025C	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW025C	6/14/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW026C	11/29/2021	Sulfate Reducing Bacteria	Other	1.10E+06	=	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Sulfate Reducing Bacteria	Other	9.46E+03	=	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW026C	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW026C	6/14/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW026C	6/14/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW026C	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Desulfotobacterium spp.	Reductive Dechlorination	1.82E+04	=	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Desulfotobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Total Eubacteria	Other	2.57E+07	=	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Total Eubacteria	Other	5.58E+06	=	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Methanogens	Other	8.69E+03	=	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	8.31E+03	=	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.69E+04	=	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW026C	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	1.96E+02	J	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	4.39E+04	=	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	4.16E+04	=	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.25E+05	=	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	1.55E+03	=	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW026C	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	6.05E+02	=	cells/bead	5.00E+00	2.50E+02
CRW026C	6/14/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW026C	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW026C	6/14/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW027C	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW027C	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW027C	6/14/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	5.64E+03	=	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW027C	6/14/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW027C	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Desulfuromonas spp.	Reductive Dechlorination	9.76E+02	=	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Total Eubacteria	Other	1.67E+07	=	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Total Eubacteria	Other	1.45E+07	=	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Methanogens	Other	5.10E+00	J	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW027C	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	5.41E+04	=	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	7.23E+04	=	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	8.61E+05	=	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	9.83E+05	=	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	1.36E+03	=	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.03E+04	=	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	1.70E+03	=	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW027C	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	6/14/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW027C	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW027C	6/14/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW028C	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW028C	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW028C	6/14/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW028C	6/14/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW028C	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	1.85E+01	J	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Desulfuromonas spp.	Reductive Dechlorination	2.56E+02	=	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Total Eubacteria	Other	2.42E+07	=	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Total Eubacteria	Other	9.02E+06	=	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Methanogens	Other	7.80E+00	J	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW028C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	4.55E+04	=	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.45E+05	=	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	5.69E+05	=	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	4.29E+05	=	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW028C	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW028C	6/14/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	1.23E+01	J	cells/bead	5.00E+00	2.50E+02
CRW028C	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CRW028C	6/14/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW029C	6/13/22	Sulfate Reducing Bacteria	Other	4.75E+03	=	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW029C	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW029C	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW029C	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	6.88E+01	J	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Total Eubacteria	Other	1.99E+07	=	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.72E+06	=	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	1.93E+06	=	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	8.23E+05	=	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW029C	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	3.29E+02	=	cells/bead	5.00E+00	2.50E+02
CRW029C	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW030C	6/13/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW030C	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CRW030C	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW030C	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	2.00E+02	J	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	3.23E+03	=	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Total Eubacteria	Other	1.42E+07	=	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	3.52E+04	=	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	9.99E+04	=	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	3.10E+05	=	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CRW030C	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CRW030C	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB 15D	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB 15D	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CSB 15D	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Dehalobacter DCM	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB 15D	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB 15D	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	5.48E+02	=	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Total Eubacteria	Other	5.45E+06	=	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Total Eubacteria	Other	1.40E+06	=	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CSB 15D	11/29/2021	Methanogens	Other	7.70E+00	J	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	1.76E+04	=	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	4.81E+03	=	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	2.46E+05	=	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	5.11E+04	=	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	4.71E+02	=	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB 15D	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB 15D	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CSB 15D	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB020C	11/29/2021	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Sulfate Reducing Bacteria	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CSB020C	6/13/22	BAV1 Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB020C	11/29/2021	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	cerA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Chloroform Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	1,1 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	1,2 DCA Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Dehalobacter DCM	Reductive Dechlorination	5.02E+02	=	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Dehalobacter DCM	Reductive Dechlorination	8.88E+02	=	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Dichloromethane Dehalogenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Dehalobium chlorocoercia	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Dehalobacter spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB020C	6/13/22	Dehalococcoides	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB020C	11/29/2021	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Dehalogenimonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Desulfitobacterium spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Desulfuromonas spp.	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Total Eubacteria	Other	8.68E+06	=	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Total Eubacteria	Other	5.38E+06	=	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Ethene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02

Table 4. BioTrap QuantArray® Data (4Q21 & 2Q22)								
Station ID	Sample Date	Parameter	Type	Result	Result Qualifier	Units	Detection Limit	Report Limit
CSB020C	11/29/2021	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Epoxyalkane Transferase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Methanogens	Other	6.80E+00	J	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Methanogens	Other	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	PCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Phenol Hydroxylase	Aerobic (Co)Metabolic	5.11E+04	=	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Phenol Hydroxylase	Aerobic (Co)Metabolic	5.35E+04	=	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Particulate Methane Monooxygenase	CENSUS Targets	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	4.54E+05	=	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Toluene Monooxygenase 2	Aerobic (Co)Metabolic	2.15E+05	=	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Toluene Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Soluble Methane Monooxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Trichlorobenzene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	tceA Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01
CSB020C	11/29/2021	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	trans-1,2-DCE Reductase	Reductive Dechlorination	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.50E+02	<	cells/bead	5.00E+00	2.50E+02
CSB020C	6/13/22	Toluene Dioxygenase	Aerobic (Co)Metabolic	2.14E+02	J	cells/bead	5.00E+00	2.50E+02
CSB020C	11/29/2021	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	0.00E+00	0.00E+00
CSB020C	6/13/22	Vinyl Chloride Reductase	Reductive Dechlorination	2.50E+01	<	cells/bead	5.00E+00	2.50E+01

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APPENDIX A

CAGW OU NTC RA Analytical Data 2021-2022

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Appendix A: CAGW OU NTC RA Data			Field Data									Hydrocarbons		Inorganics			TOC	Radionuclide	VOCs						
			SAMPLE DATE	DEPTH TO WATER	OXIDATION/REDUCTION POTENTIAL	OXYGEN	PH	SPECIFIC CONDUCTANCE	TOTAL ALKALINITY (AS CaCO3)	TURBIDITY	WATER TEMPERATURE	FIELD CONDITIONS	ETHYLENE	METHANE	CHLORIDE	NITRATE	SULFATE	TOTAL ORGANIC CARBON	TRITIUM	1,2-DICHLOROETHYLENE	CHLOROETHENE (VINYL CHLORIDE)	CIS-1,2-DICHLOROETHYLENE	TETRACHLOROETHYLENE (PCE)	TRANS-1,2-DICHLOROETHYLENE	TRICHLOROETHYLENE (TCE)
			D-M-Yr	ft	mV	mg/L	pH	uS/cm	mg/L	NTU	degC	Unit	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	pCi/mL	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Station	Well Use	Aquifer								GWPS							20		2	70	5	100	5		
CRW023C	Monitoring Well	MAZ-UTRAU	29-Nov-2021	25.9	274	4.7	5.5	27	15	2.7	18.2	No Comments	<EQL (25)	<EQL (25)	1850	895	[0.622]	[601]	1610	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	7.12
			13-Jun-2022	26.3	211	7.31	4.7	27	0	11.1	19.4	No Comments	<EQL (25)	[23]	1990	1240	0.532	<EQL (1000)	960	<EQL (2)	<EQL (1)	<EQL (1)	[0.37]	<EQL (1)	[6.16]
CRW024C	Monitoring Well	MAZ-UTRAU	29-Nov-2021	39.3	277	4.8	5.4	29	6	1.3	18.5	No Comments	<EQL (25)	[15.4]	2130	1530	[0.317]	[412]	1610	<EQL (2)	<EQL (1)	<EQL (1)	[0.38]	<EQL (1)	19.6
			13-Jun-2022	39.8	163	8.42	4.6	30	0	3.7	19.3	No Comments	<EQL (25)	<EQL (25)	2080	1520	0.614	1120	1210	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[10.9]
CRW025C	Monitoring Well	MAZ-UTRAU	29-Nov-2021	12.8	288	3.03	4.9	24	0	10.9	17.6	No Comments	<EQL (25)	<EQL (25)	2060	870	[0.52]	[415]	147	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	8.14
			14-Jun-2022	12.92	151	5.57	4.5	21	0	11.9	18.7	No Comments	<EQL (25)	<EQL (25)	2200	726	0.494	<EQL (1000)	95.1	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[2.91]
CRW026C	Monitoring Well	MAZ-UTRAU	29-Nov-2021	8.6	-27	2.92	6	104	43	4	18	No Comments	<EQL (125)	709	1860	[80.5]	<EQL (0.4)	3020	1010	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	4.09
			14-Jun-2022	8.7	-93	0.45	6.2	111	48	5.8	18.9	No Comments	<EQL (250)	1090	1830	196	[0.334]	3030	771	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[4.36]
CRW027C	Monitoring Well	MAZ-UTRAU	29-Nov-2021	5.5	256	3.14	4.8	27	0	0.9	18.1	No Comments	<EQL (25)	[15.9]	1730	1200	[0.282]	[513]	603	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	3.63
			14-Jun-2022	5.69	268.8	8.02	4.4	29	0	3	18.6	No Comments	<EQL (25)	<EQL (25)	2110	1440	0.562	<EQL (1000)	425	<EQL (2)	<EQL (1)	[0.37]	<EQL (1)	<EQL (1)	[11.8]
CRW028C	Monitoring Well	MAZ-UTRAU	29-Nov-2021	5.63	305	4.25	4.8	27	0	2.5	18.3	No Comments	<EQL (25)	[10.5]	1910	1100	[0.558]	[363]	252	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	8.5
			14-Jun-2022	6	284	0.74	4.5	25	0	2.6	19.3	No Comments	<EQL (25)	<EQL (25)	1930	993	0.508	<EQL (1000)	97.9	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[10.8]
CRW029C	Monitoring Well	MAZ-UTRAU	1-Mar-2022	37.8	89	4.3	7.5	35	42	0.6	18.0	No Comments	NR	NR	1890	1290	0.595	[455]	821	<EQL (1)	<EQL (1)	<EQL (1)	[0.65]	<EQL (1)	5.08
			13-Jun-2022	38.3	198	7.81	5.2	31	0	7.6	19.7	No Comments	<EQL (25)	<EQL (25)	1760	1080	0.667	<EQL (1000)	298	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[1.43]
CRW030C	Monitoring Well	MAZ-UTRAU	28-Feb-2022	25.9	138	3.38	5.5	28	4.0	0.9	19.4	No Comments	NR	NR	1820	861	[0.375]	1310	607	<EQL (1)	<EQL (1)	<EQL (1)	[0.86]	<EQL (1)	2.38

Appendix A: CAGW OU NTC RA Data (Continued)			Field Data									Hydrocarbons		Inorganics		TOC	Radionuclide	VOCs							
			SAMPLE DATE	DEPTH TO WATER	OXIDATION/REDUCTION POTENTIAL	OXYGEN	PH	SPECIFIC CONDUCTANCE	TOTAL ALKALINITY (AS CaCO3)	TURBIDITY	WATER TEMPERATURE	FIELD CONDITIONS	ETHYLENE	METHANE	CHLORIDE	NITRATE	SULFATE	TOTAL ORGANIC CARBON	TRITIUM	1,2-DICHLOROETHYLENE	CHLOROETHENE (VINYL CHLORIDE)	CIS-1,2-DICHLOROETHYLENE	TETRACHLOROETHYLENE (PCE)	TRANS-1,2-DICHLOROETHYLENE	TRICHLOROETHYLENE (TCE)
			D-M-Yr	ft	mV	mg/L	pH	uS/cm	mg/L	NTU	degC	Unit	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	pCi/mL	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Station	Well Use	Aquifer									GWPS						20	2	70	5	100	5			
CRW030C	Monitoring Well	MAZ-UTRAU	13-Jun-2022	26	234	8.18	4.5	24	0	2.1	19.1	No Comments	<EQL (25)	<EQL (25)	2030	1300	[0.373]	<EQL (1000)	1120	<EQL (2)	<EQL (1)	<EQL (1)	[0.35]	<EQL (1)	[8.1]
CSB 15D	Monitoring Well	MAZ-UTRAU	29-Nov-2021	29.4	275	4.3	5.7	30	6	8.9	18.3	No Comments	<EQL (25)	<EQL (25)	2210	903	[0.236]	[349]	361	<EQL (2)	<EQL (1)	<EQL (1)	[0.34]	<EQL (1)	36.8
			13-Jun-2022	29.63	243	8.34	4.8	26	0	3.6	18.7	No Comments	<EQL (25)	<EQL (25)	2470	964	[0.382]	<EQL (1000)	312	<EQL (2)	<EQL (1)	<EQL (1)	[0.42]	<EQL (1)	[38.4]
CSB020C	Monitoring Well	MAZ-UTRAU	29-Nov-2021	39.8	273	4.5	5.5	26	8	8.7	18.4	No Comments	<EQL (25)	<EQL (25)	2320	1120	[0.256]	[336]	227	<EQL (2)	<EQL (1)	<EQL (1)	[0.35]	<EQL (1)	28.6
			13-Jun-2022	40.91	208	8.49	4.6	27	0	3.7	18.9	No Comments	<EQL (25)	<EQL (25)	2590	1160	0.436	<EQL (1000)	169	<EQL (2)	<EQL (1)	<EQL (1)	[0.39]	<EQL (1)	[24.3]
CCSL-08	Seepline		29-Nov-2021	0.1	94	4.58	5.7	34	10	7.9	14.7	X	<EQL (25)	[13.2]	2280	921	[0.504]	NS	67.5	[1.3]	<EQL (1)	1.3	<EQL (1)	<EQL (1)	2.09
			14-Jun-2022	0.02	201	4.25	5.2	24	2	7	26.5	X	<EQL (25)	<EQL (25)	2250	535	0.422	[429]	55.7	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[4.73]
CCSL-11	Seepline		29-Nov-2021	1.36	78	5.1	6.3	49	14	106	14.1	X	<EQL (25)	[15.9]	2880	960	[0.631]	1080	122	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)
			14-Jun-2022	1.4	245	3.17	5.9	163	13	19.4	24.1	X	<EQL (25)	69.5	3180	585	0.623	NS	119	[1.82]	<EQL (1)	[1.82]	<EQL (1)	<EQL (1)	[0.34]
CCSL-14	Seepline		29-Nov-2021	0.94	71	4.77	5.9	22	12	27.8	9.8	No Comments	<EQL (25)	<EQL (25)	2020	544	[0.272]	[613]	91.8	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	2.91
			13-Jun-2022	1.06	245	11.83	4.9	21	0	4.3	21.9	No Comments	<EQL (25)	<EQL (25)	2280	499	0.444	<EQL (1000)	122	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[5.96]
CCSL-23R	Seepline		29-Nov-2021	3.8	94	4.65	4.6	42	0	8.8	6.4	No Comments	<EQL (25)	[10.2]	2630	364	[1.44]	1200	274	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	9.1
			14-Jun-2022	3.9	333	2.71	4.9	29	NS	11.7	24.7	No Comments	<EQL (25)	<EQL (25)	2680	588	1.18	[484]	327	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[10]

Appendix A: CAGW OU NTC RA Data (Continued)			Field Data									Hydrocarbons		Inorganics			TOC	Radionuclide	VOCs						
			SAMPLE DATE	DEPTH TO WATER	OXIDATION/REDUCTION POTENTIAL	OXYGEN	PH	SPECIFIC CONDUCTANCE	TOTAL ALKALINITY (AS CaCO3)	TURBIDITY	WATER TEMPERATURE	FIELD CONDITIONS	ETHYLENE	METHANE	CHLORIDE	NITRATE	SULFATE	TOTAL ORGANIC CARBON	TRITIUM	1,2-DICHLOROETHYLENE	CHLOROETHENE (VINYL CHLORIDE)	CIS-1,2-DICHLOROETHYLENE	TETRACHLOROETHYLENE (PCE)	TRANS-1,2-DICHLOROETHYLENE	TRICHLOROETHYLENE (TCE)
			D-M-Yr	ft	mV	mg/L	pH	uS/cm	mg/L	NTU	degC	Unit	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	pCi/mL	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Station	Well Use	Aquifer								GWPS															
CC 05	Surface Water		16-Nov-2021	NR	221	2.94	5.2	27	5	0.7	11.1	C	<EQL (25)	[18.5]	2300	515	0.814	[968]	27.2	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[0.98]
			21-Jun-2022	NR	361	1.76	5.8	23	7	1.8	22.6	No Comments	<EQL (25)	[17.4]	2330	519	0.848	1300	22.8	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[0.87]
CC 07	Surface Water		16-Nov-2021	NR	196	6.69	6.2	22	6	0.8	11.9	C	<EQL (25)	<EQL (25)	2260	532	0.811	[831]	<EQL (1.36)	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	1.1
			21-Jun-2022	NR	303	2.22	5.6	22	4	2.7	19.2	No Comments	<EQL (25)	[15.3]	2490	535	0.858	1120	<EQL (1.67)	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[0.84]
CC 08	Surface Water		16-Nov-2021	NR	200	3.55	5.5	22	6	0.7	11.5	C	<EQL (25)	[12.9]	2260	528	0.79	[923]	27.5	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	1.09
			21-Jun-2022	NR	334	2.11	5.7	21	6	2.7	19.4	No Comments	<EQL (25)	[14.2]	2300	538	0.827	NS	22	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	[0.93]
CCT 01	Surface Water		16-Nov-2021	NR	160	5.84	6	24	7	2.7	13.8	C	<EQL (25)	[19.7]	2200	555	0.604	NS	354	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	5.95
			21-Jun-2022	NR	218	2.33	5.5	20	4	4.6	19	No Comments	<EQL (25)	126	2230	641	0.539	[703]	329	<EQL (2)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	5.66
CCT 02	Surface Water		16-Nov-2021	NR	201	3.76	5.8	20	5	2.4	12.5	C	<EQL (25)	<EQL (25)	2380	328	0.712	1620	88.9	<EQL (2)	<EQL (1)	[0.4]	<EQL (1)	<EQL (1)	3.89
			21-Jun-2022	NR	341	2.19	5.3	19	2	1.5	19.4	No Comments	<EQL (25)	<EQL (25)	2840	327	0.662	2370	50.2	<EQL (2)	<EQL (1)	[0.36]	<EQL (1)	<EQL (1)	3.62
CCT 03	Surface Water		16-Nov-2021	NR	220	4.3	5.7	20	5	1.2	13.6	C	<EQL (25)	[15.7]	2500	249	0.825	1760	16.7	[0.74]	<EQL (1)	[0.74]	<EQL (1)	<EQL (1)	6.66
			21-Jun-2022	NR	NS	NS	NS	NS	NS	NS	NS	No Comments	<EQL (25)	[19.3]	2610	229	0.695	1650	7.57	[0.88]	<EQL (1)	[0.88]	<EQL (1)	<EQL (1)	6.09

Table A-1 Table Notes

##	EPA Functional Guideline Code 'J' was applied to the result, indicating estimated quantity.
<SQL(##)	Constituent was below detection. The Sample Quantitation Limit is in parentheses.
##	Result exceeds applicable limit.
REJ	Result Rejected
	Result is less than the applicable limit and without EPA Functional Guideline qualifiers.
NS	Requested to be sampled but was not. See comments as to why not.
NR Blue Text	Not a required sample analysis.

Table A-1 Field Condition Column Notes

A	Abandoned
C	Continuously pumping well / flowing stream
D	Dry well. No sample collected.
NS	Not sampled.
T	High turbidity. Some portions of the sample may not be analyzed.
X	Well pumped dry. Samples collected after well recovered.
N	Field parameters not stable when sample collected.
NC	No comment.

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APPENDIX B

CAGW OU Hydrographs

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Figure B-1.

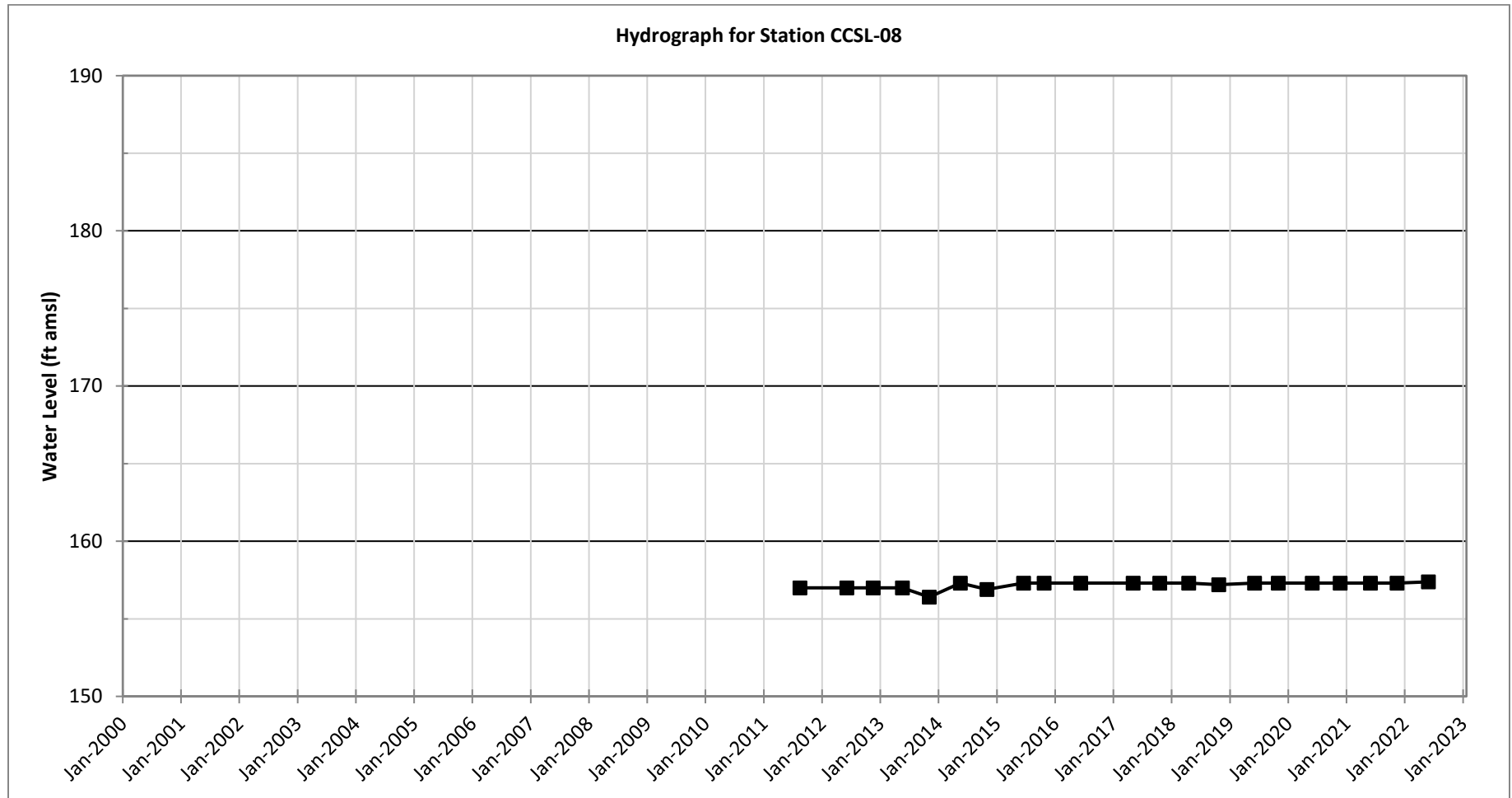


Figure B-2.

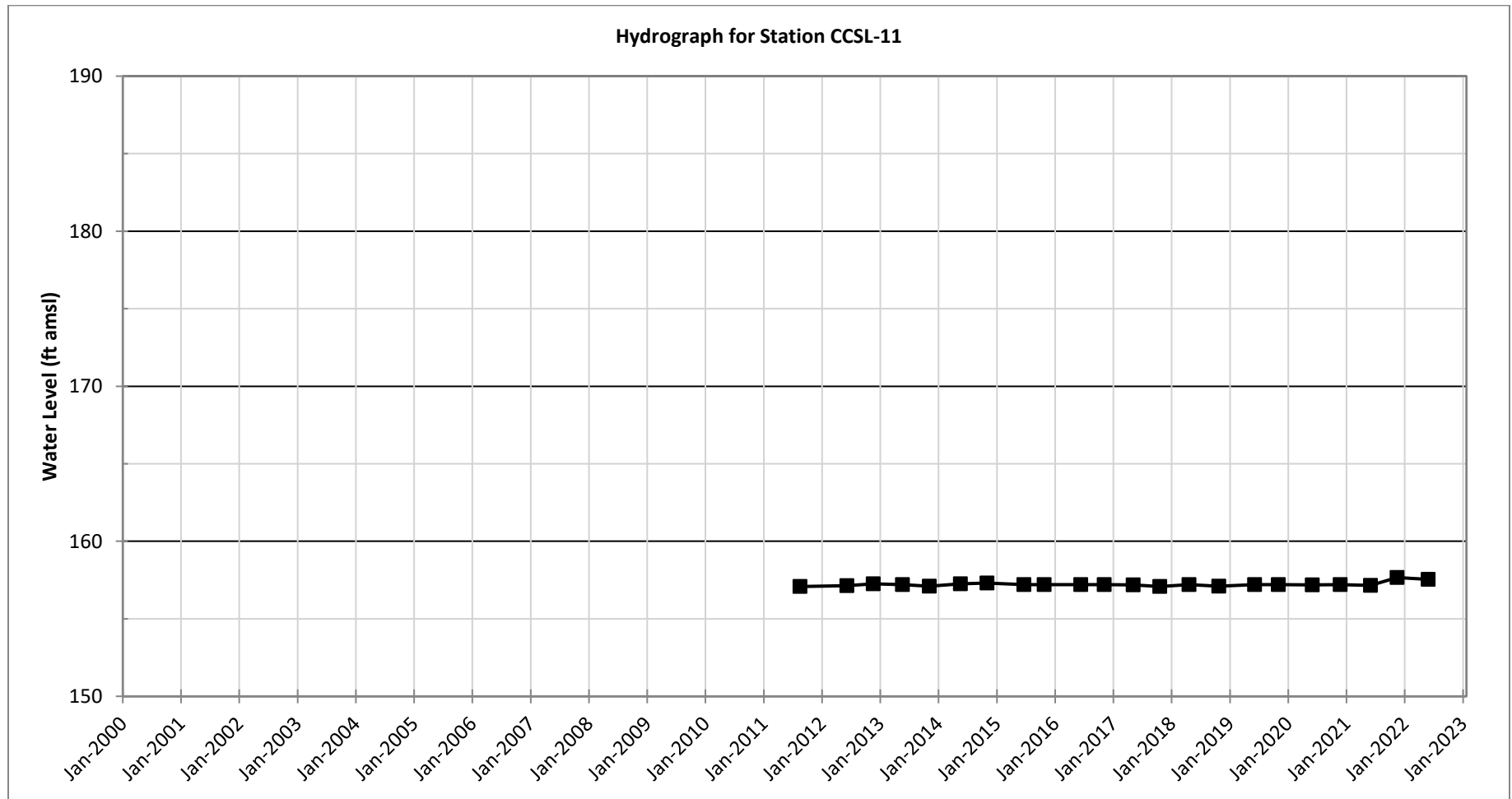


Figure B-3.

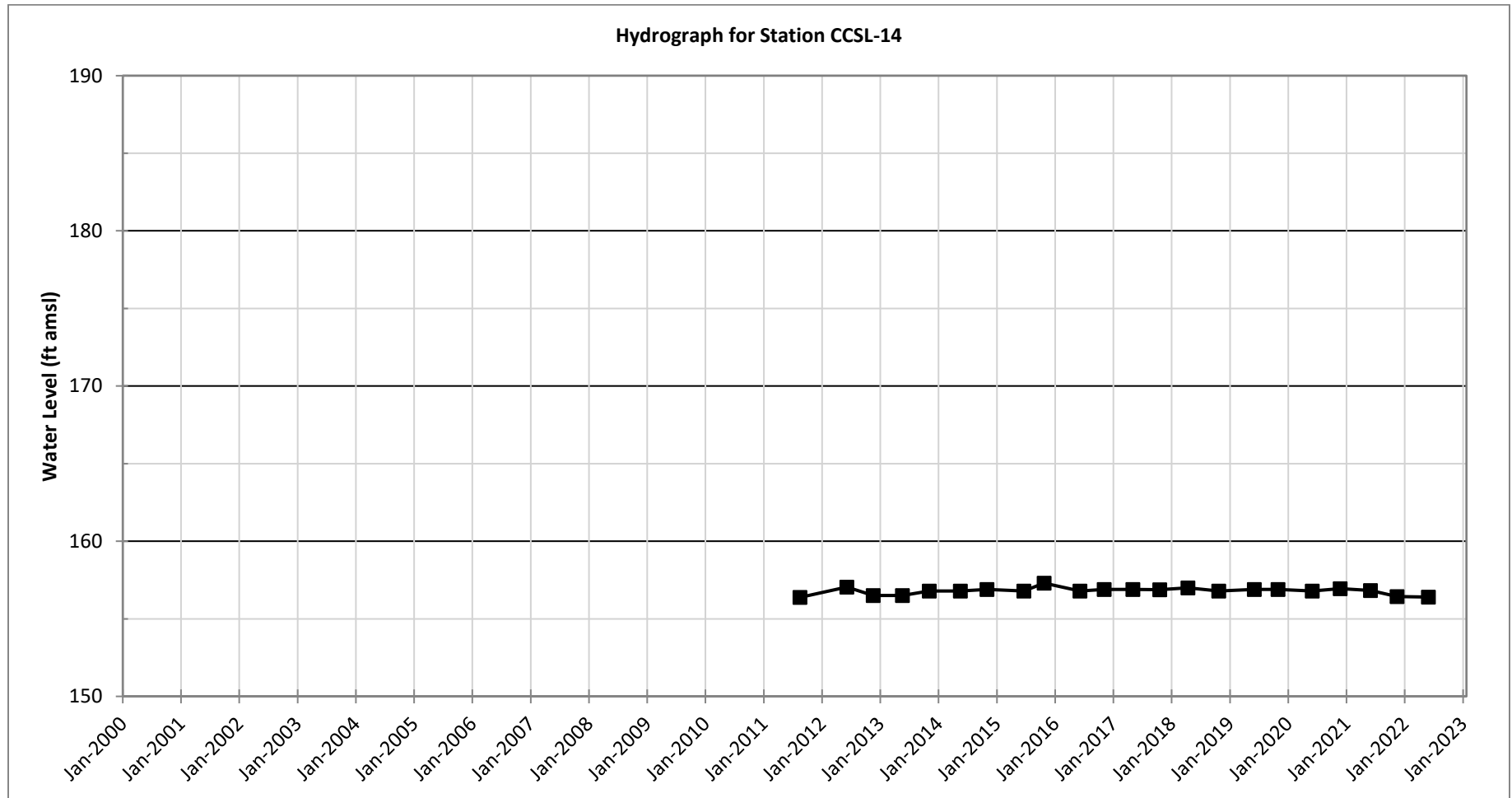


Figure B-4.

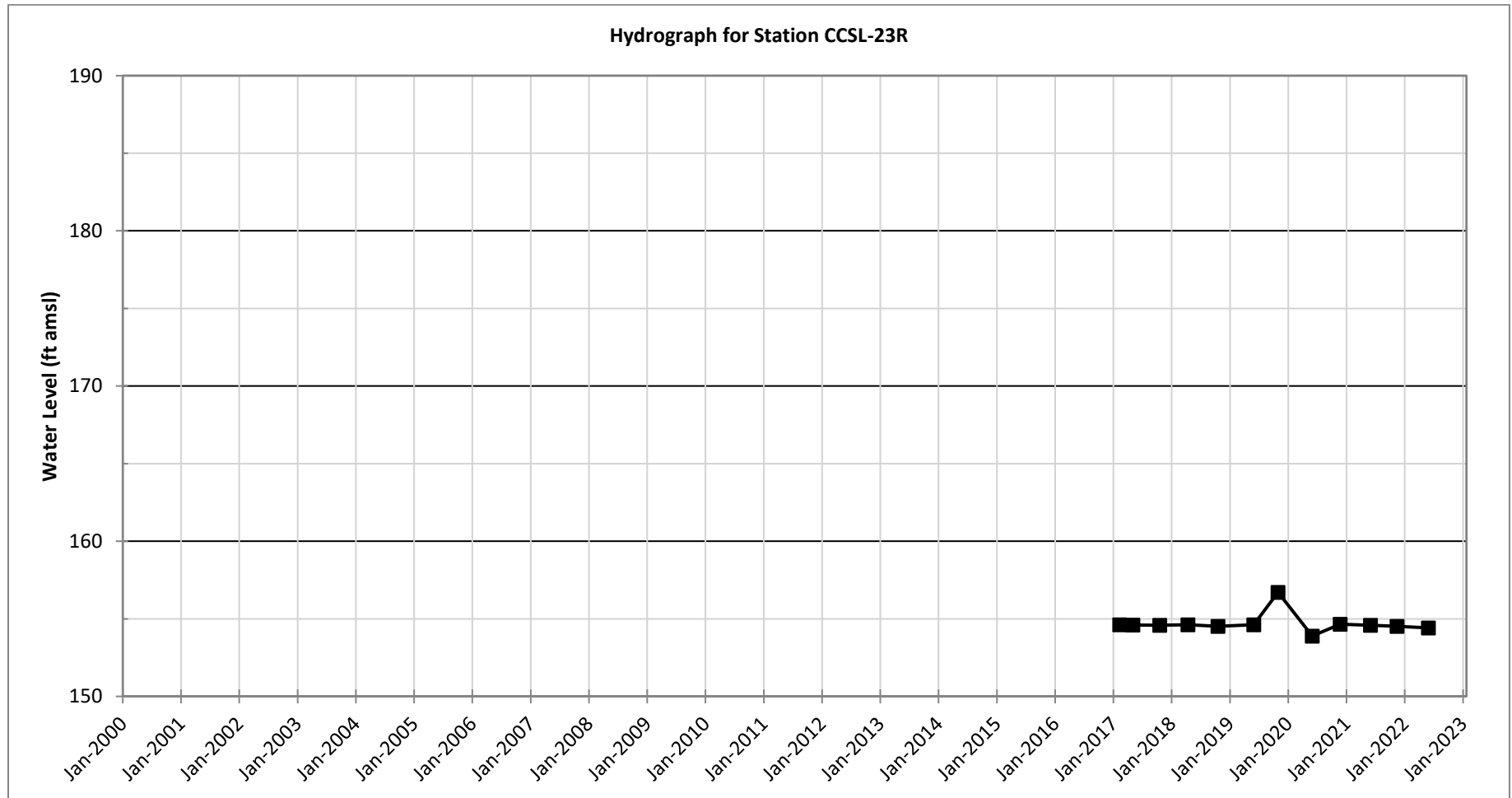


Figure B-5.

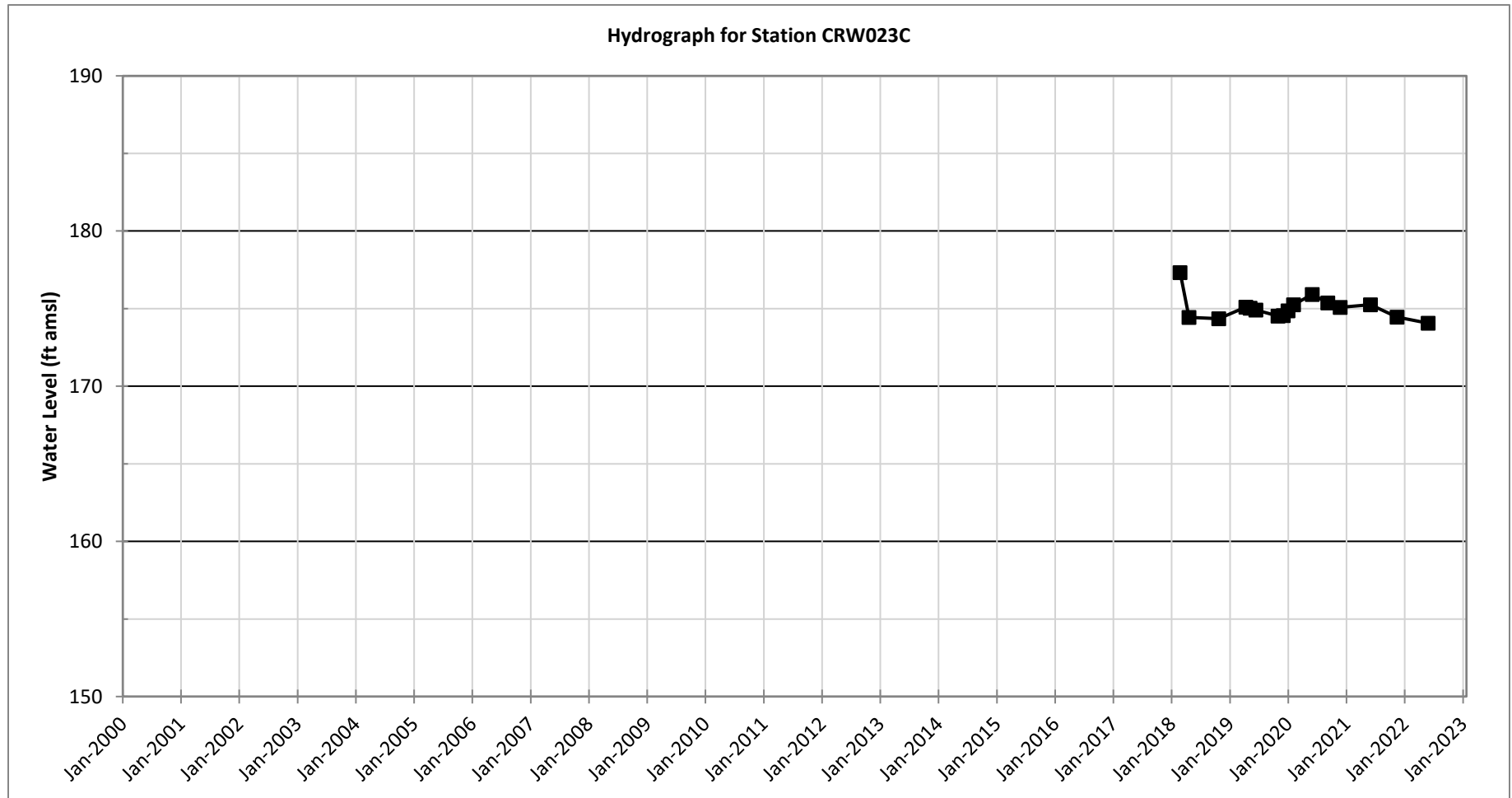


Figure B-6.

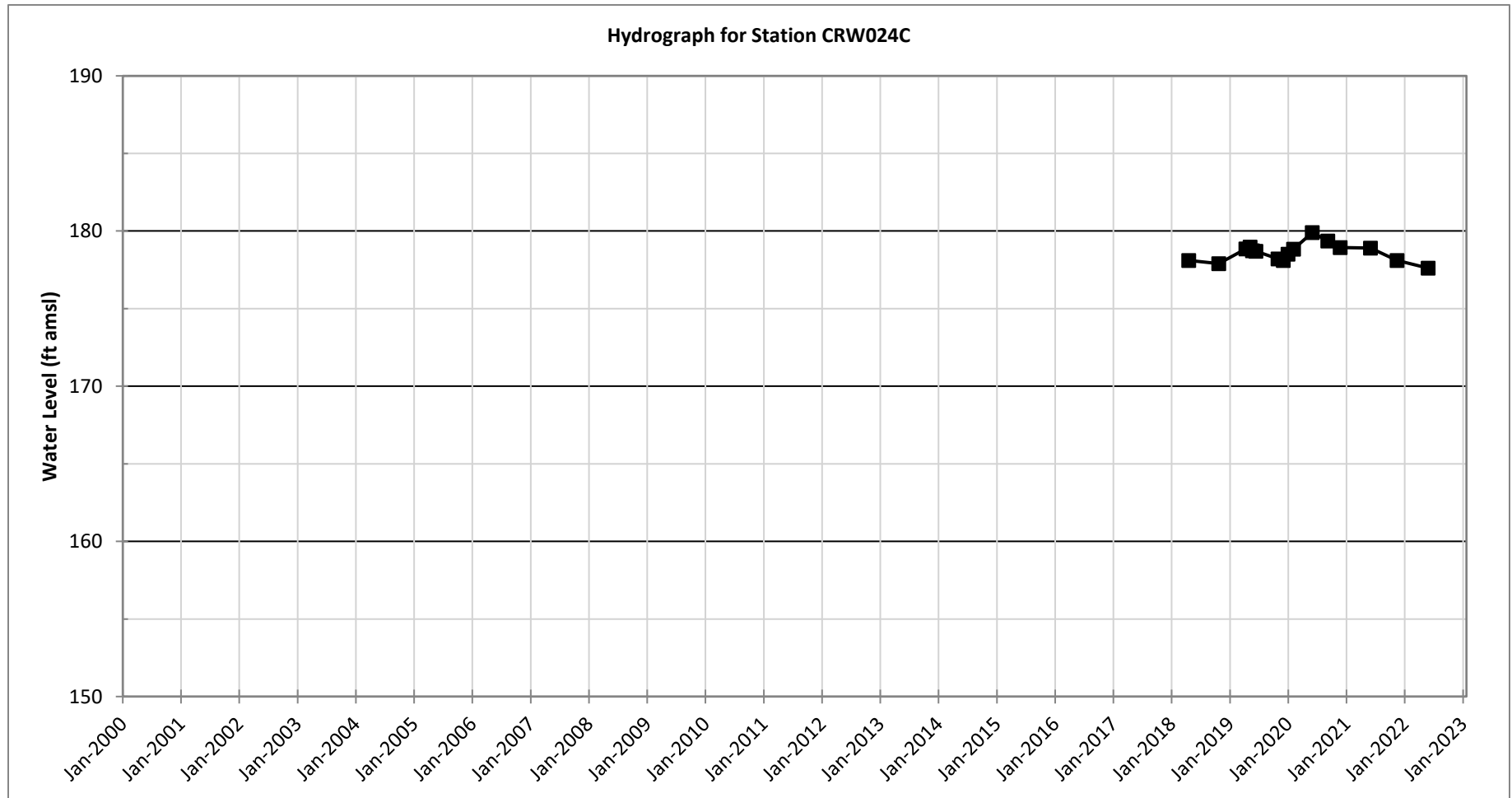


Figure B-7.

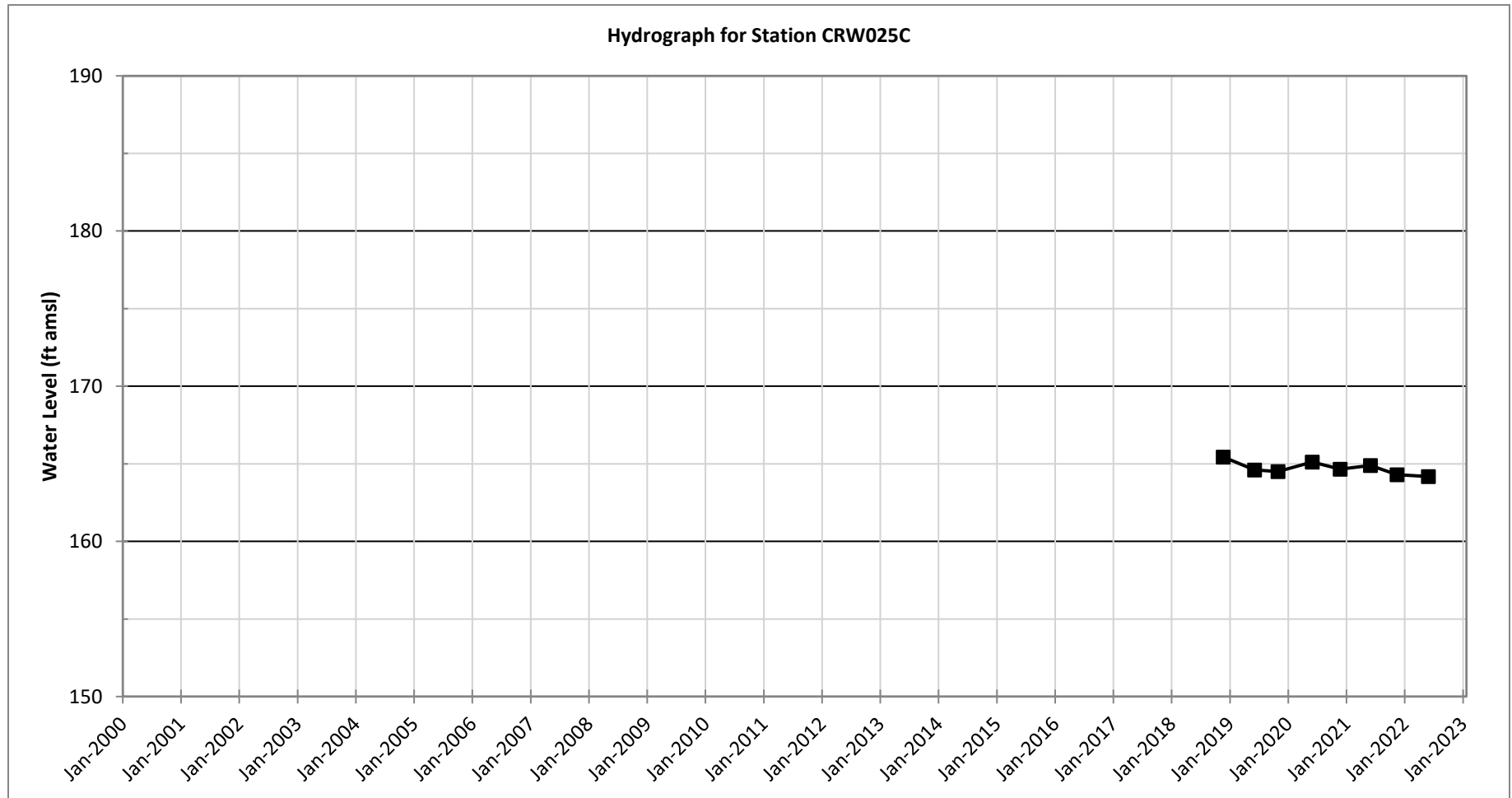


Figure B-8.

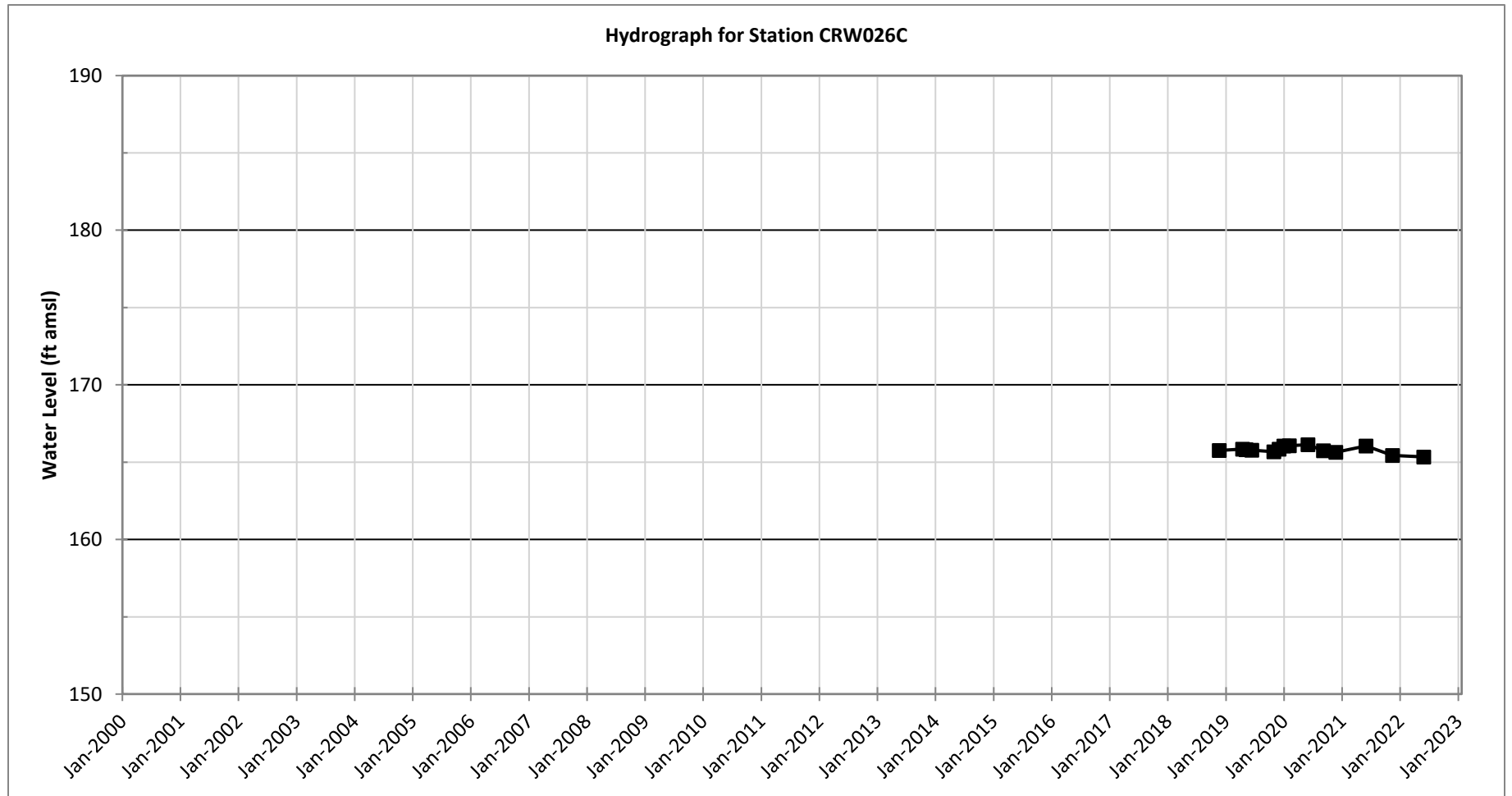


Figure B-9.

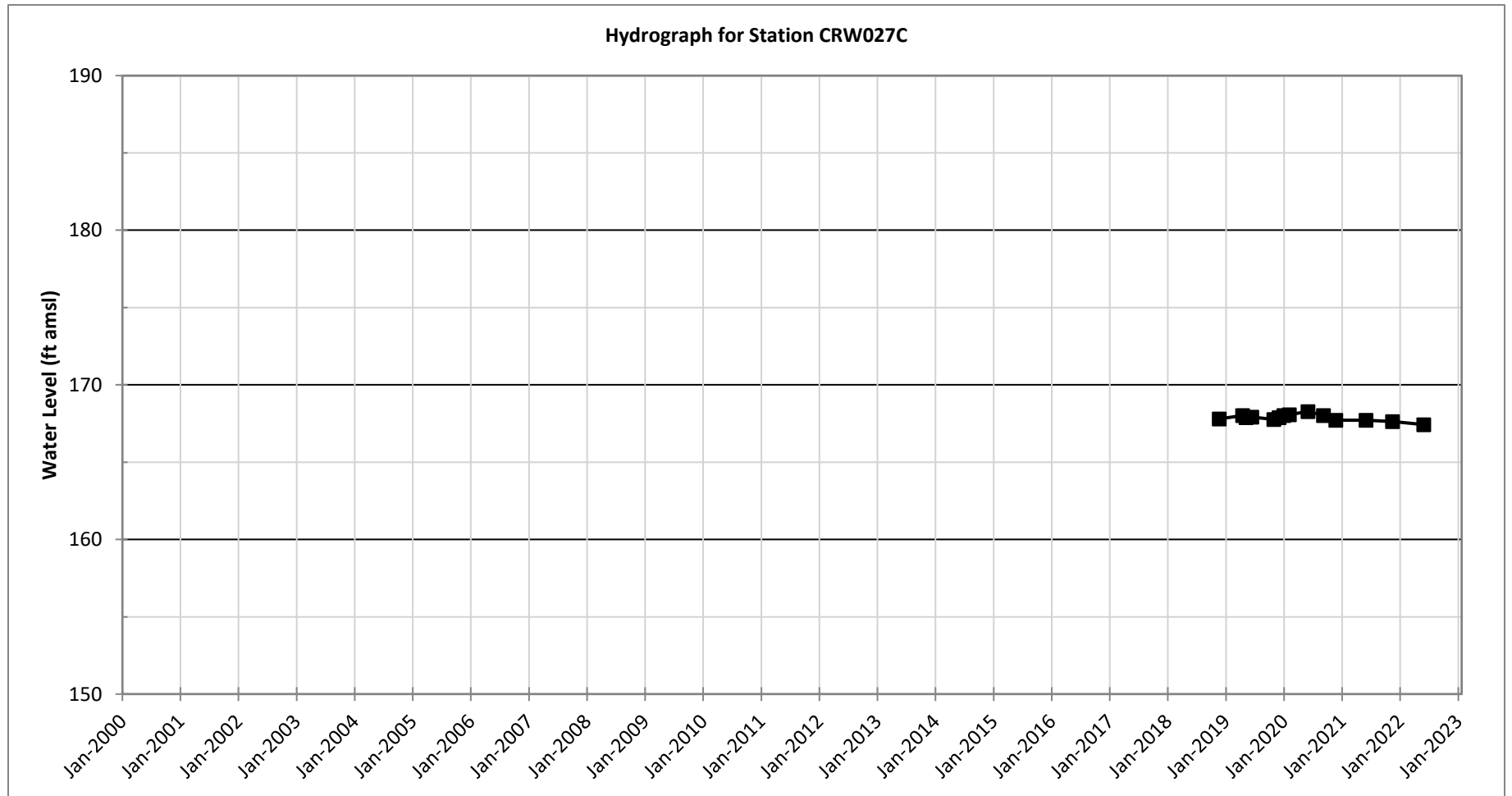


Figure B-10.

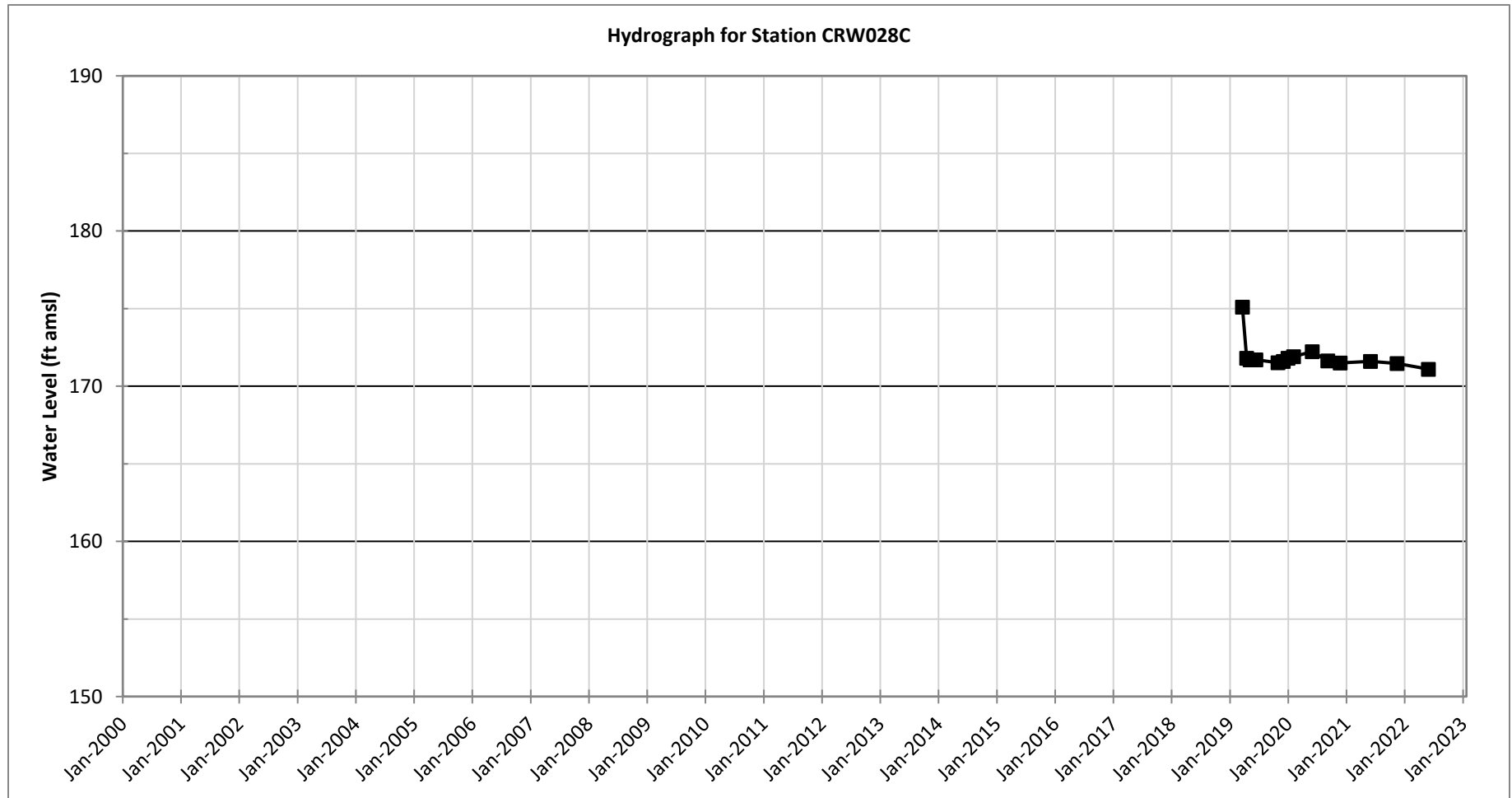


Figure B-11.

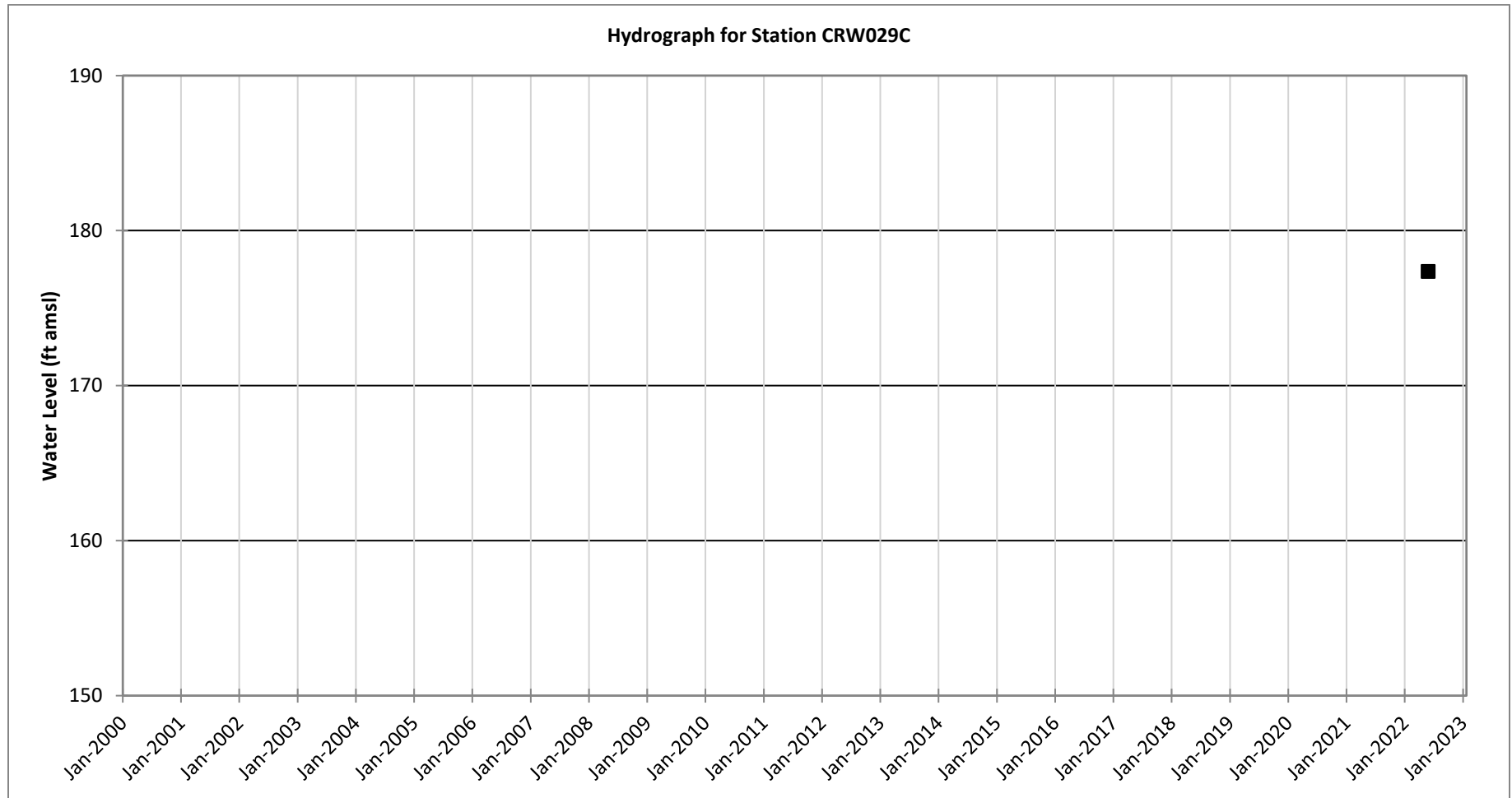


Figure B-12.

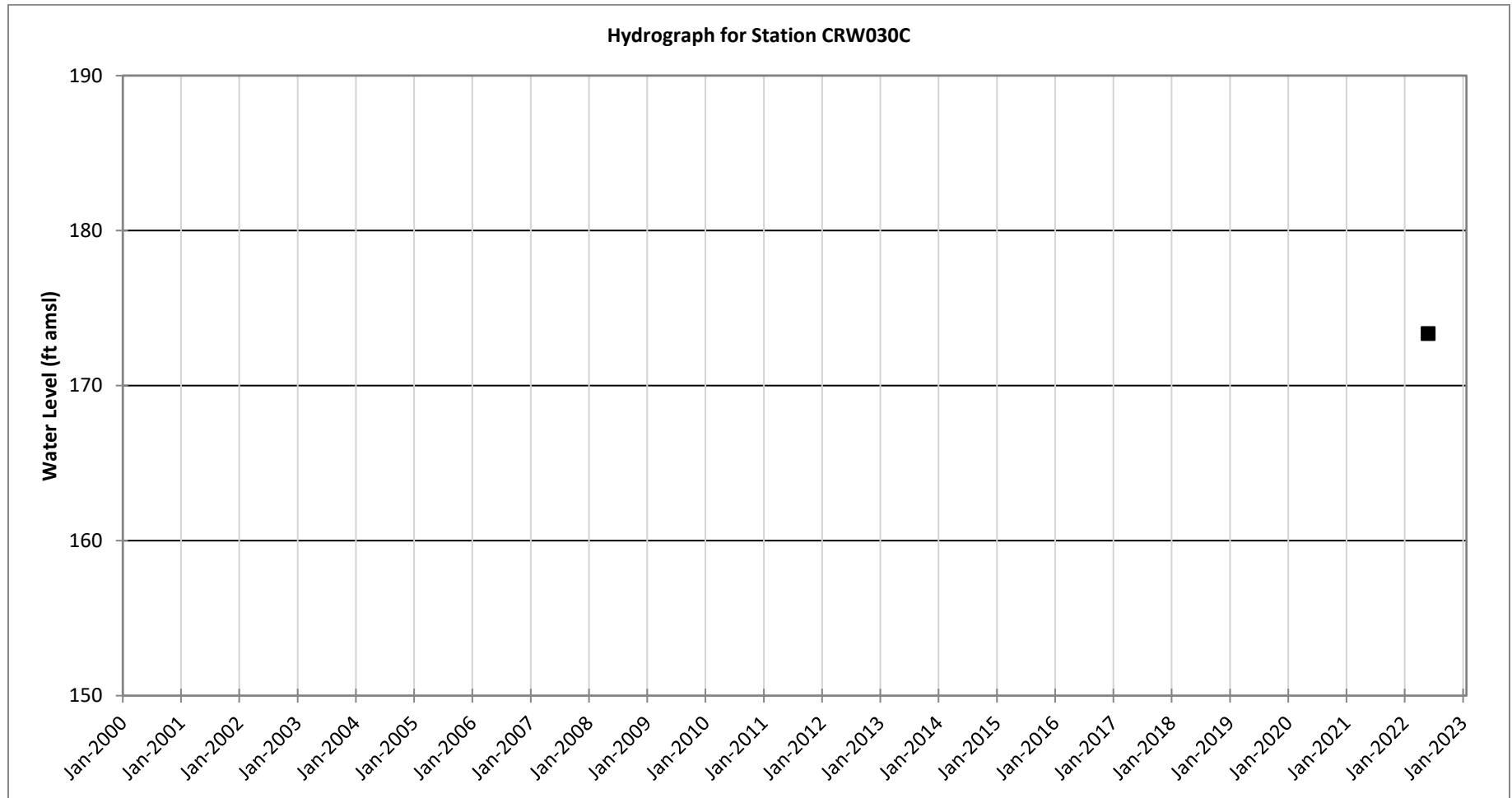


Figure B-13.

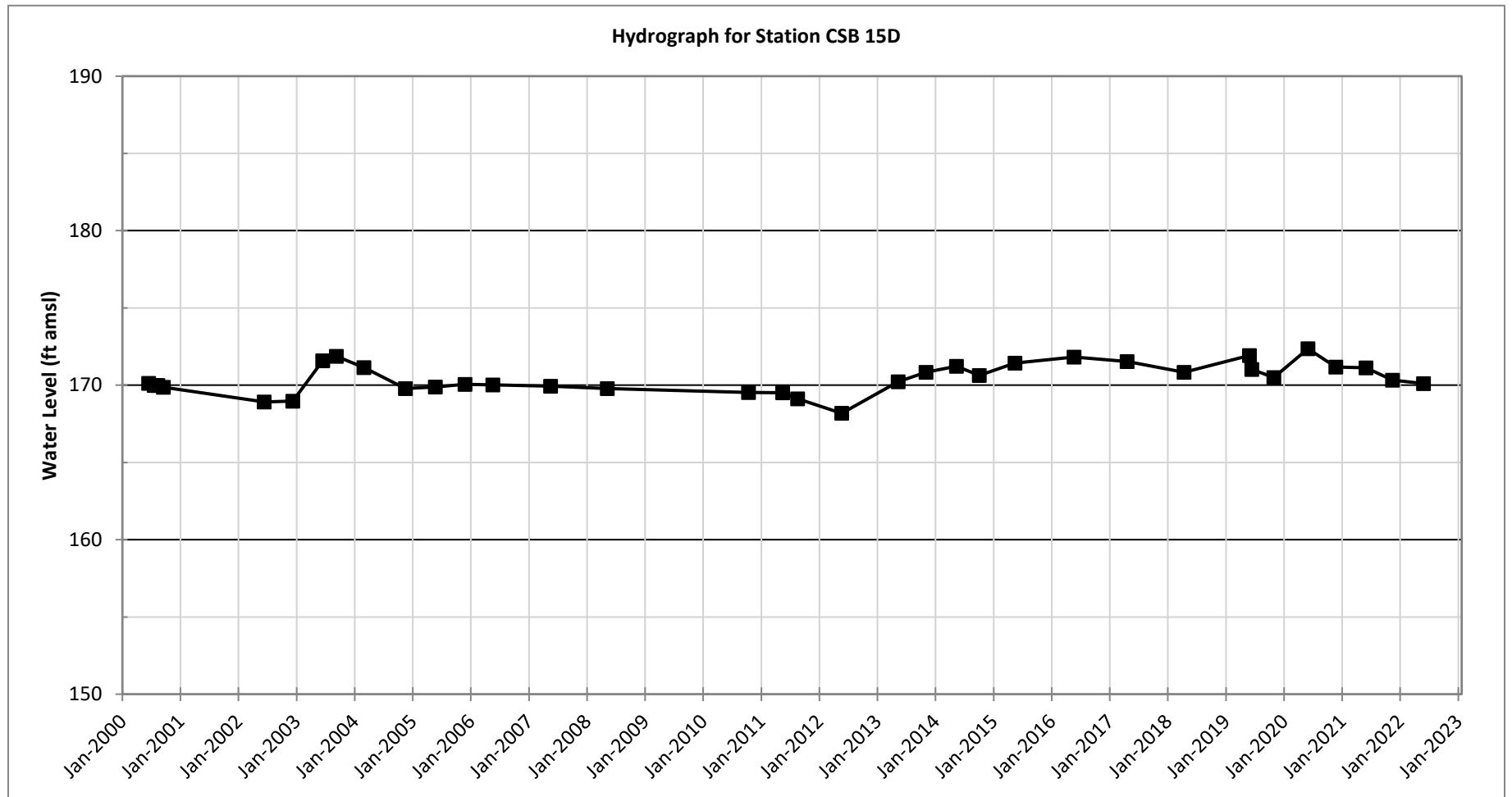
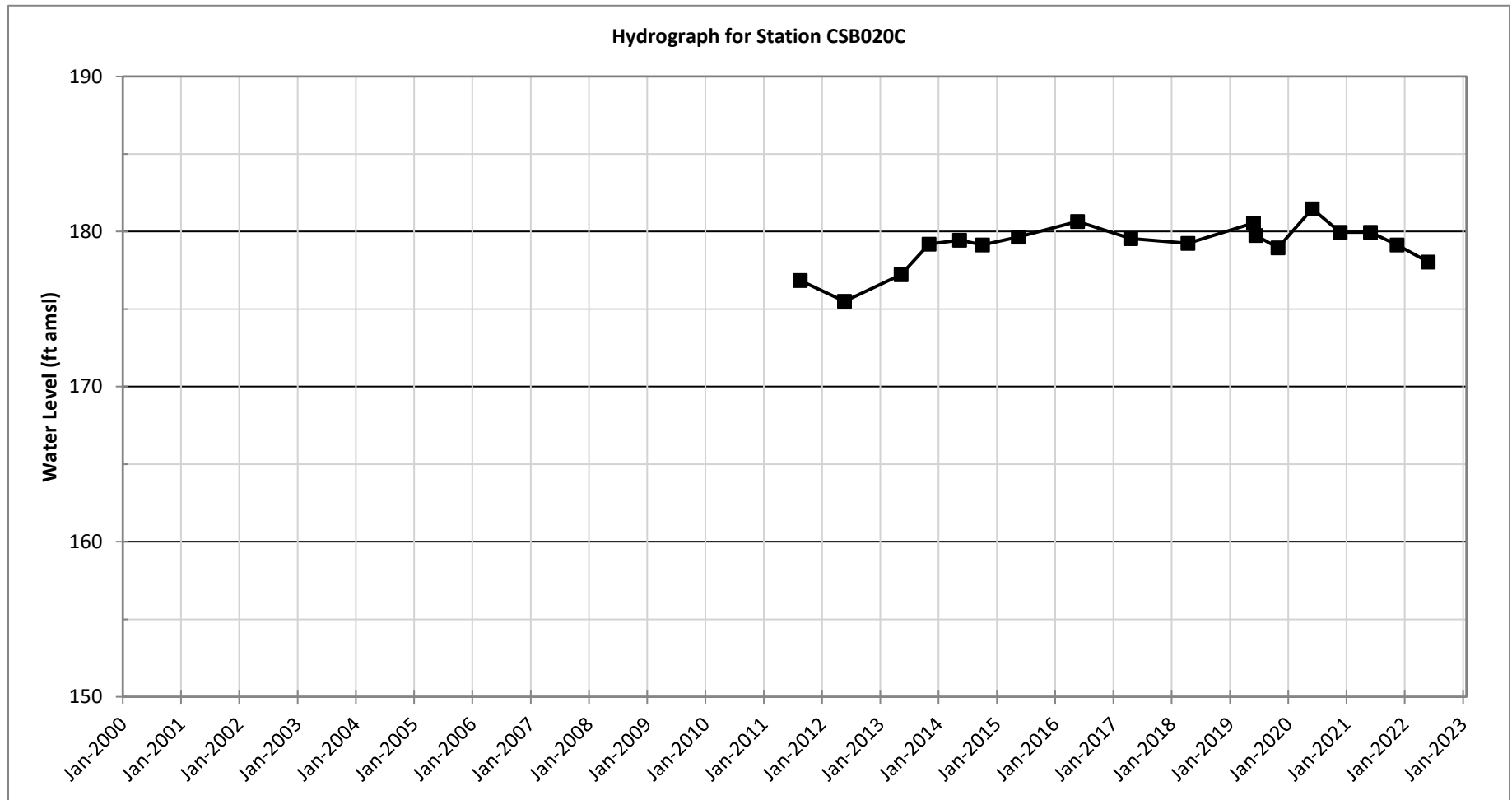


Figure B-14.



APPENDIX C

Time-Series Plots

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Figure C-1.

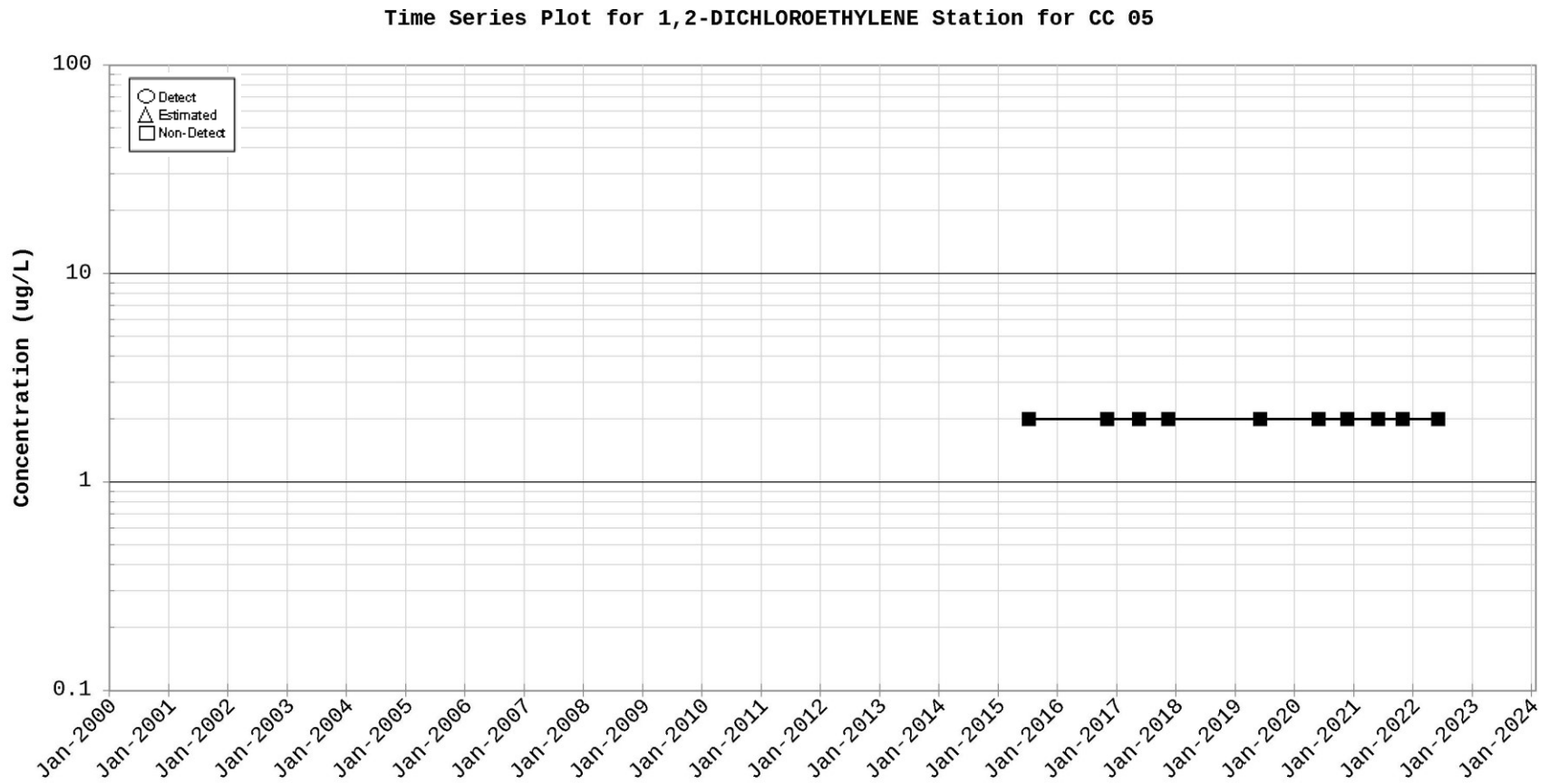


Figure C-2.

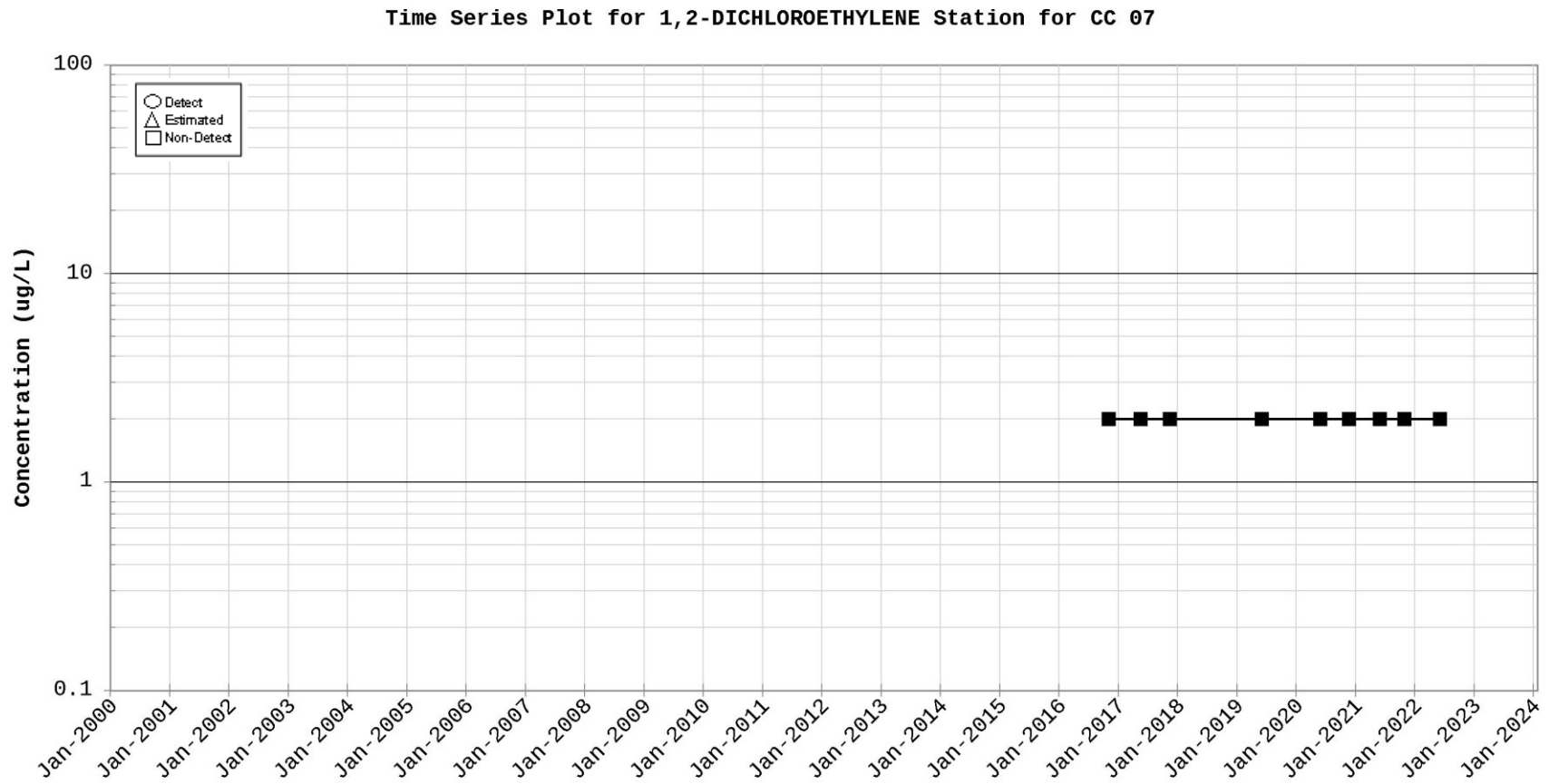


Figure C-3.

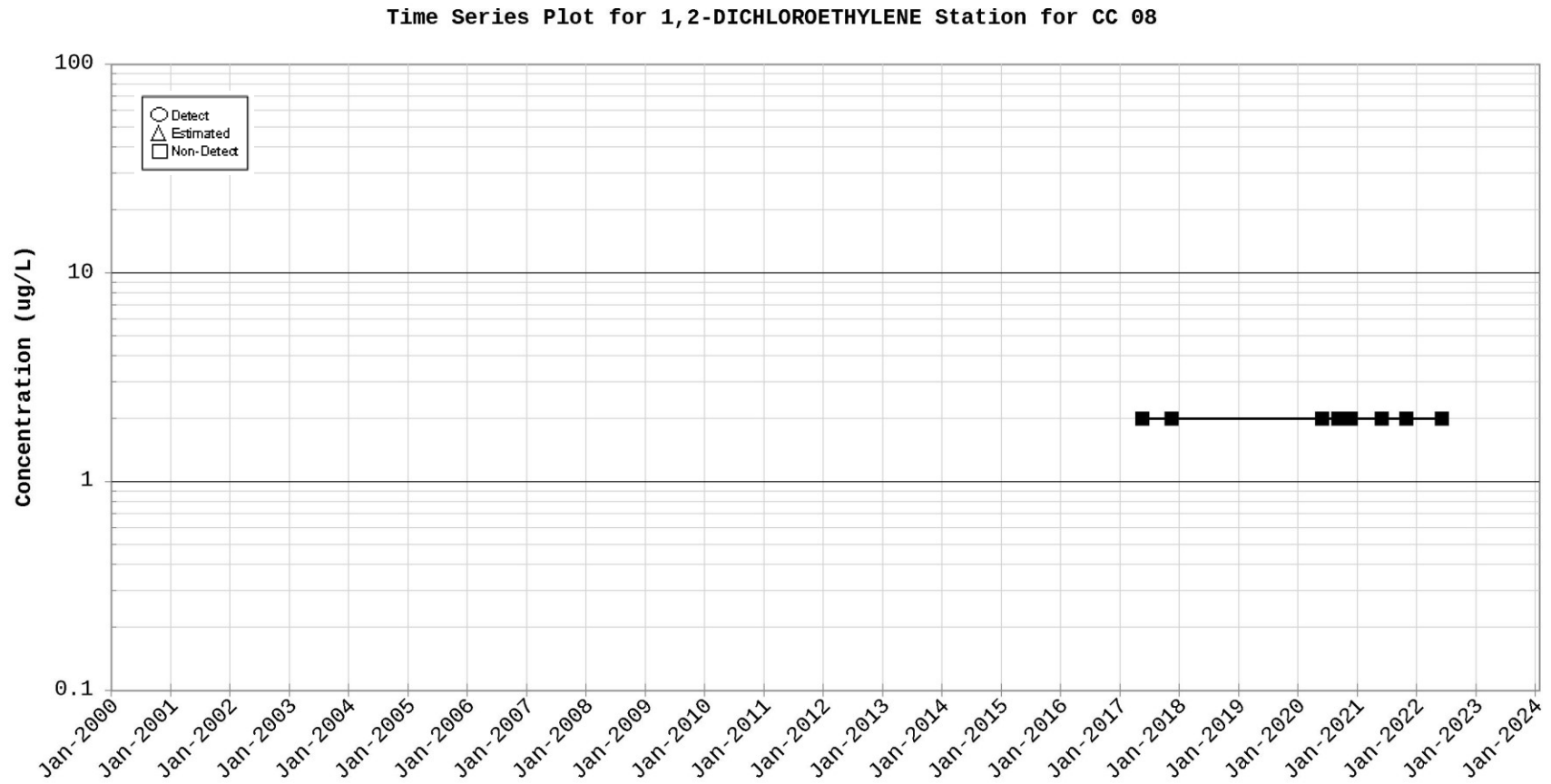


Figure C-4.

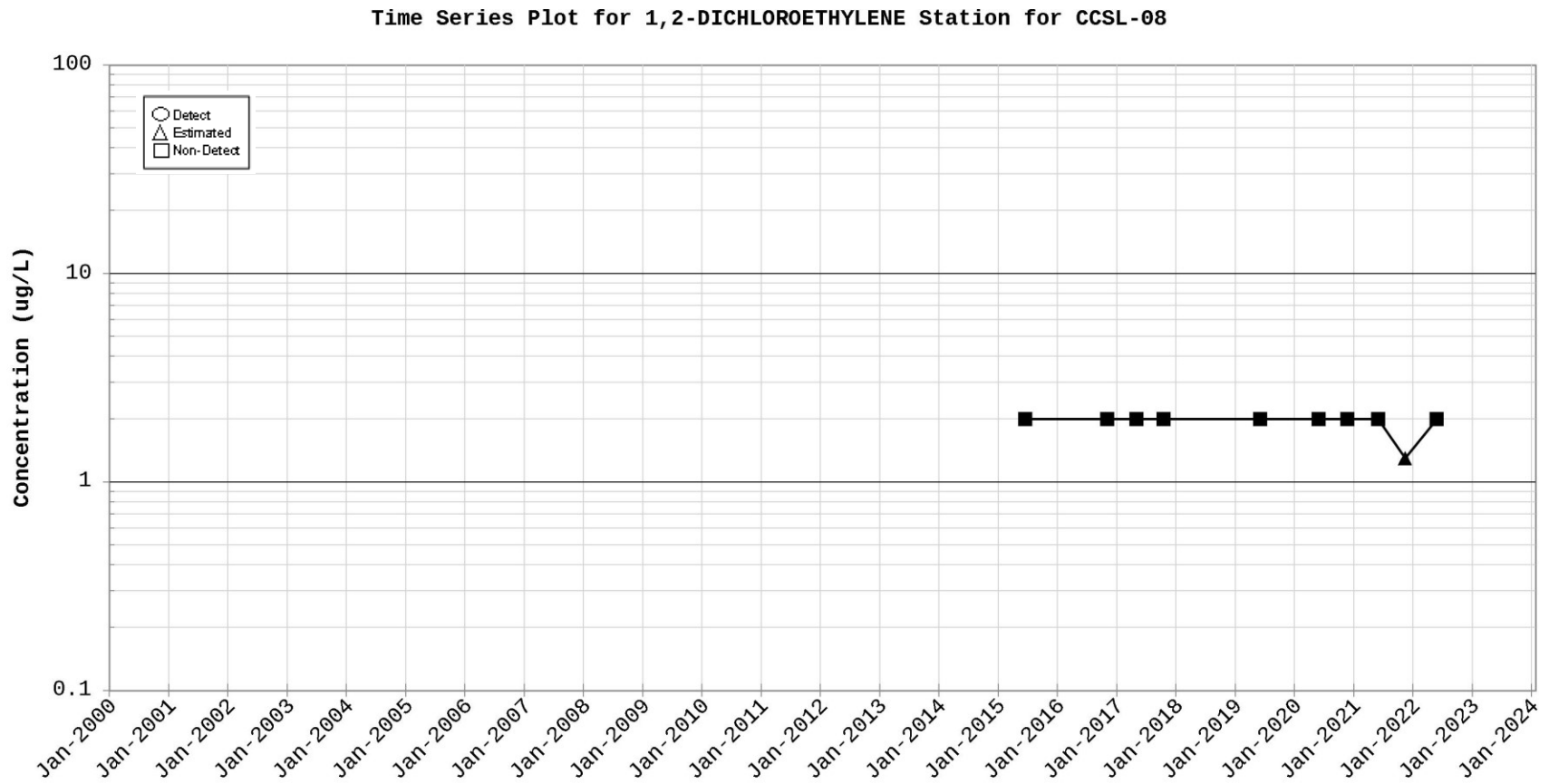


Figure C-5.

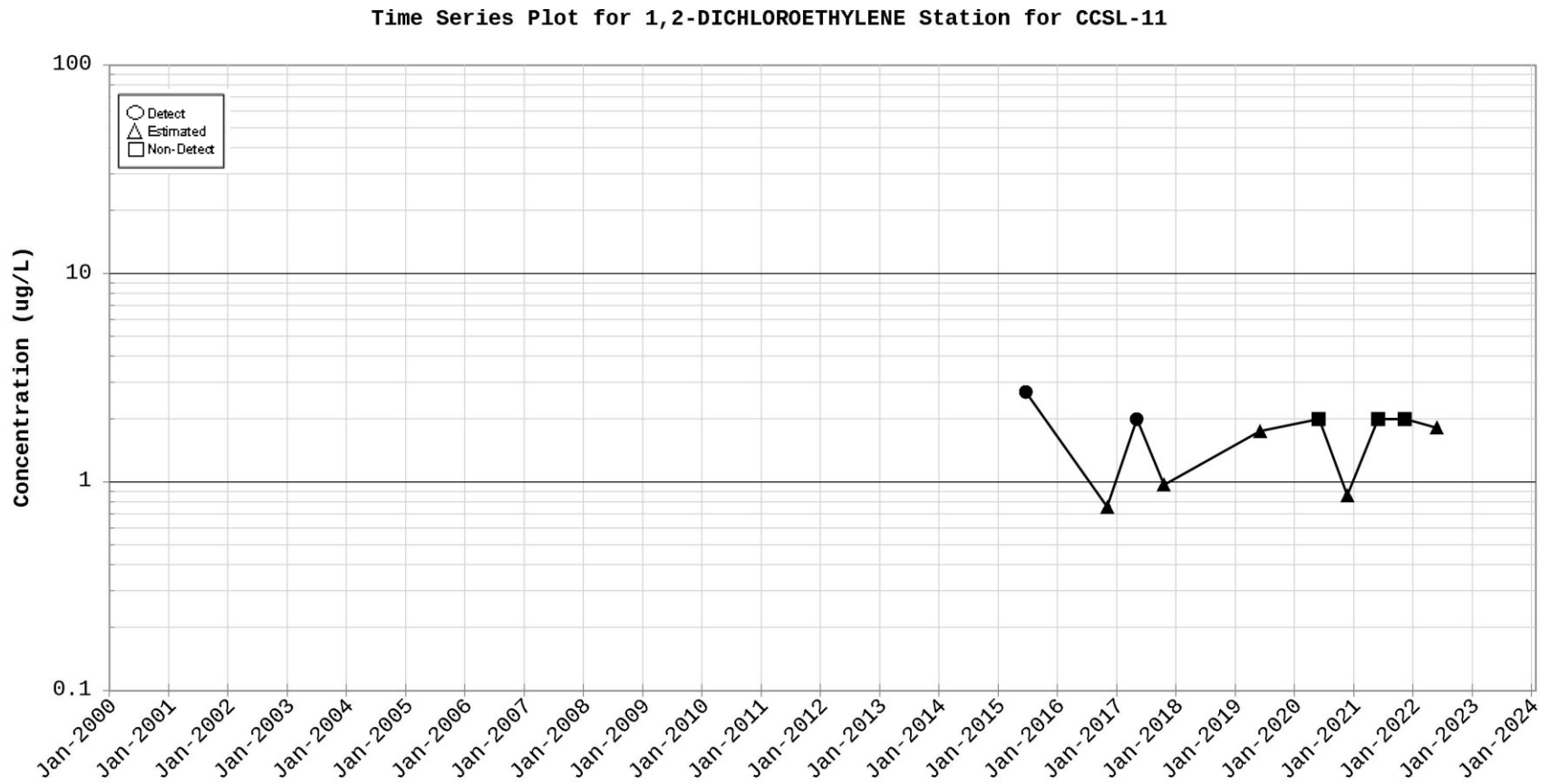


Figure C-6.

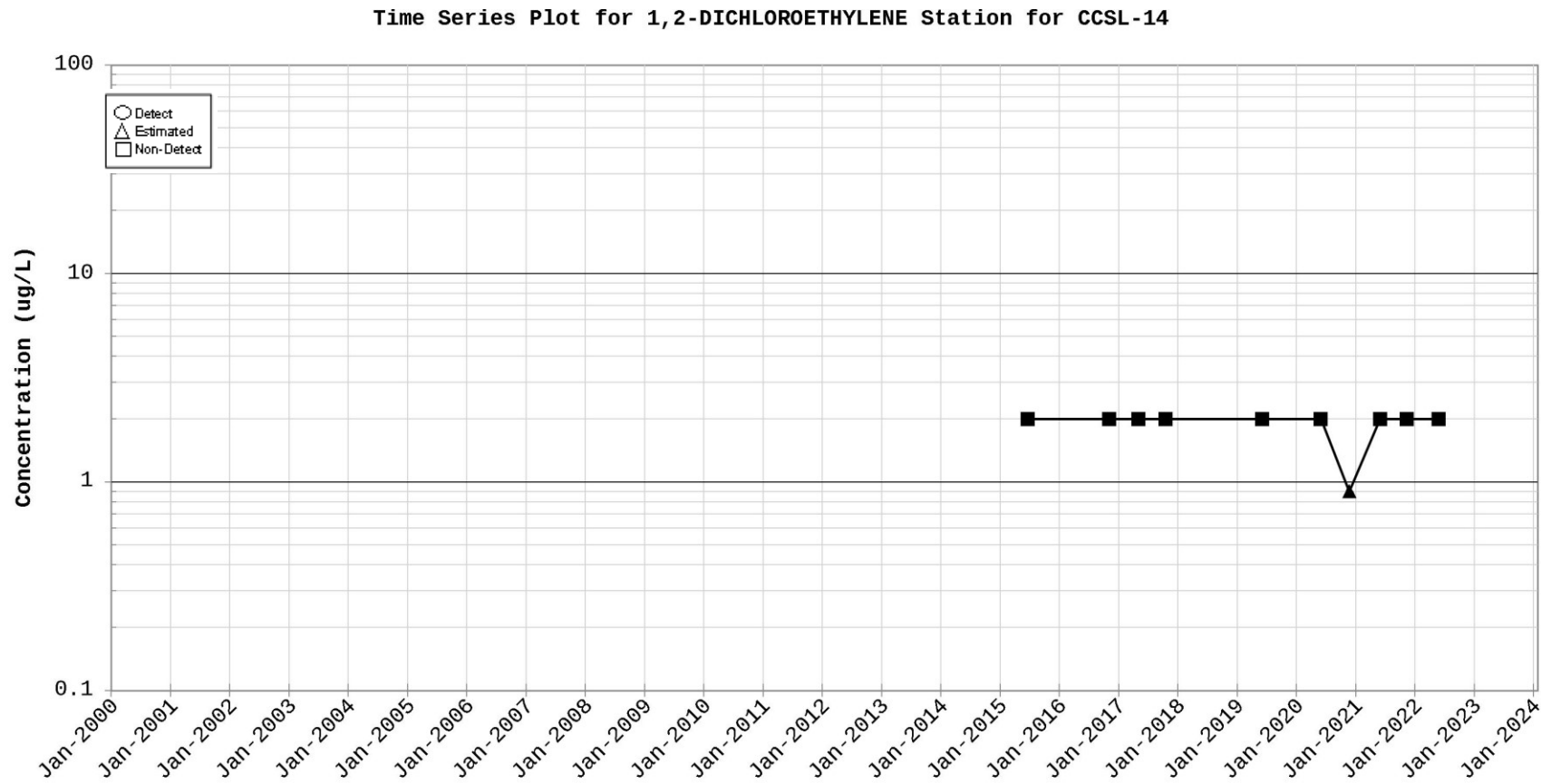


Figure C-7.

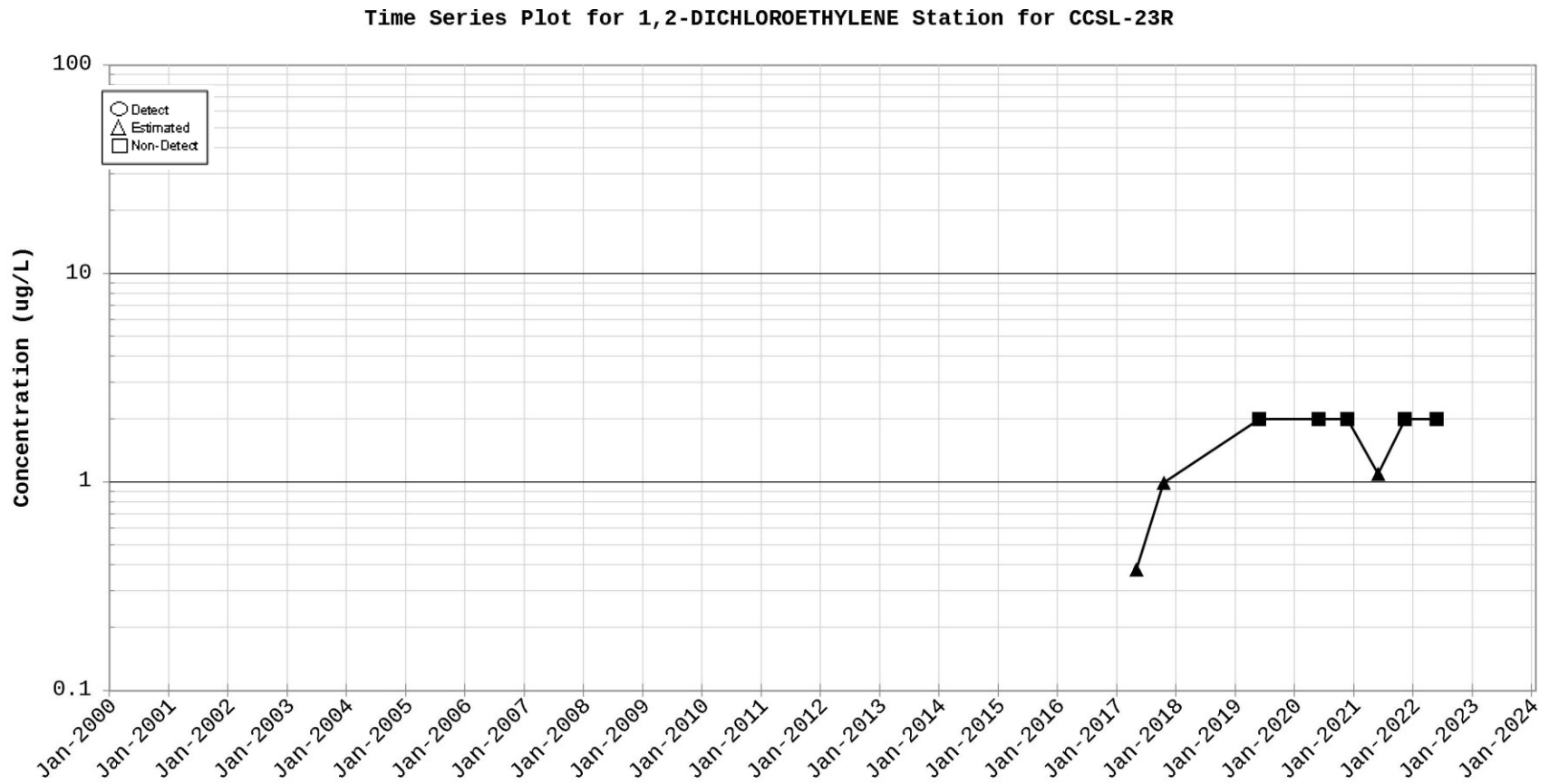


Figure C-8.

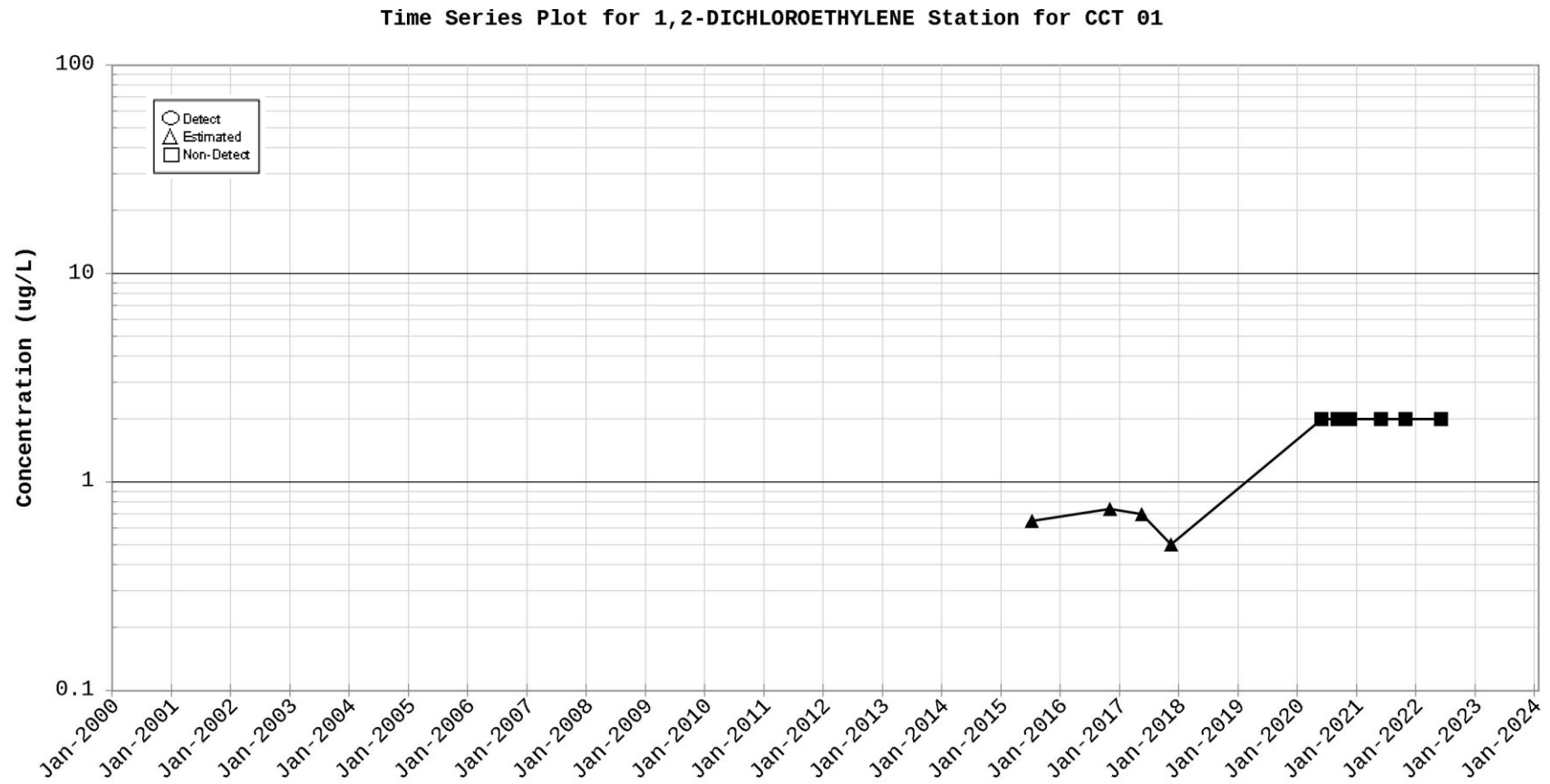


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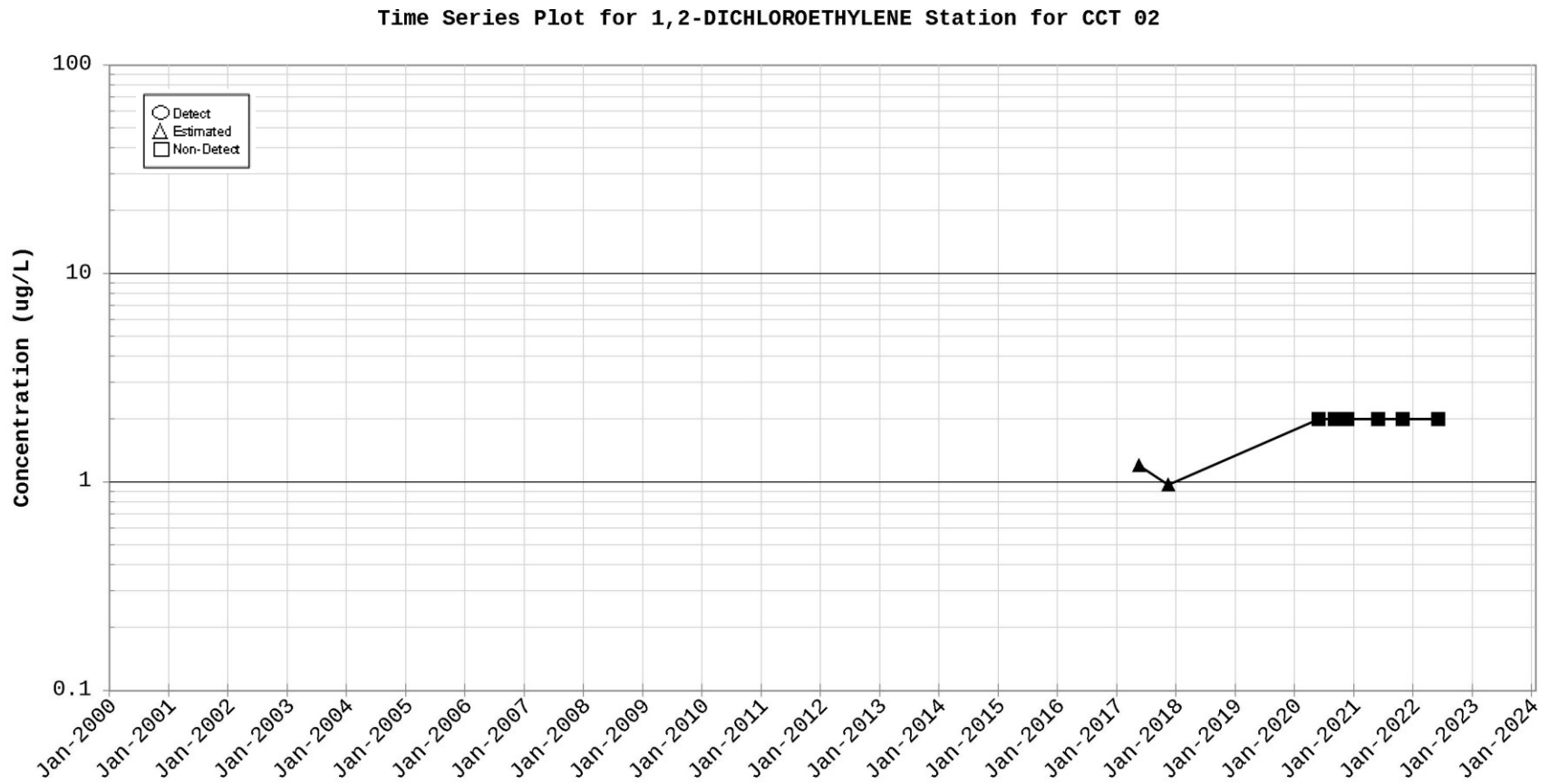


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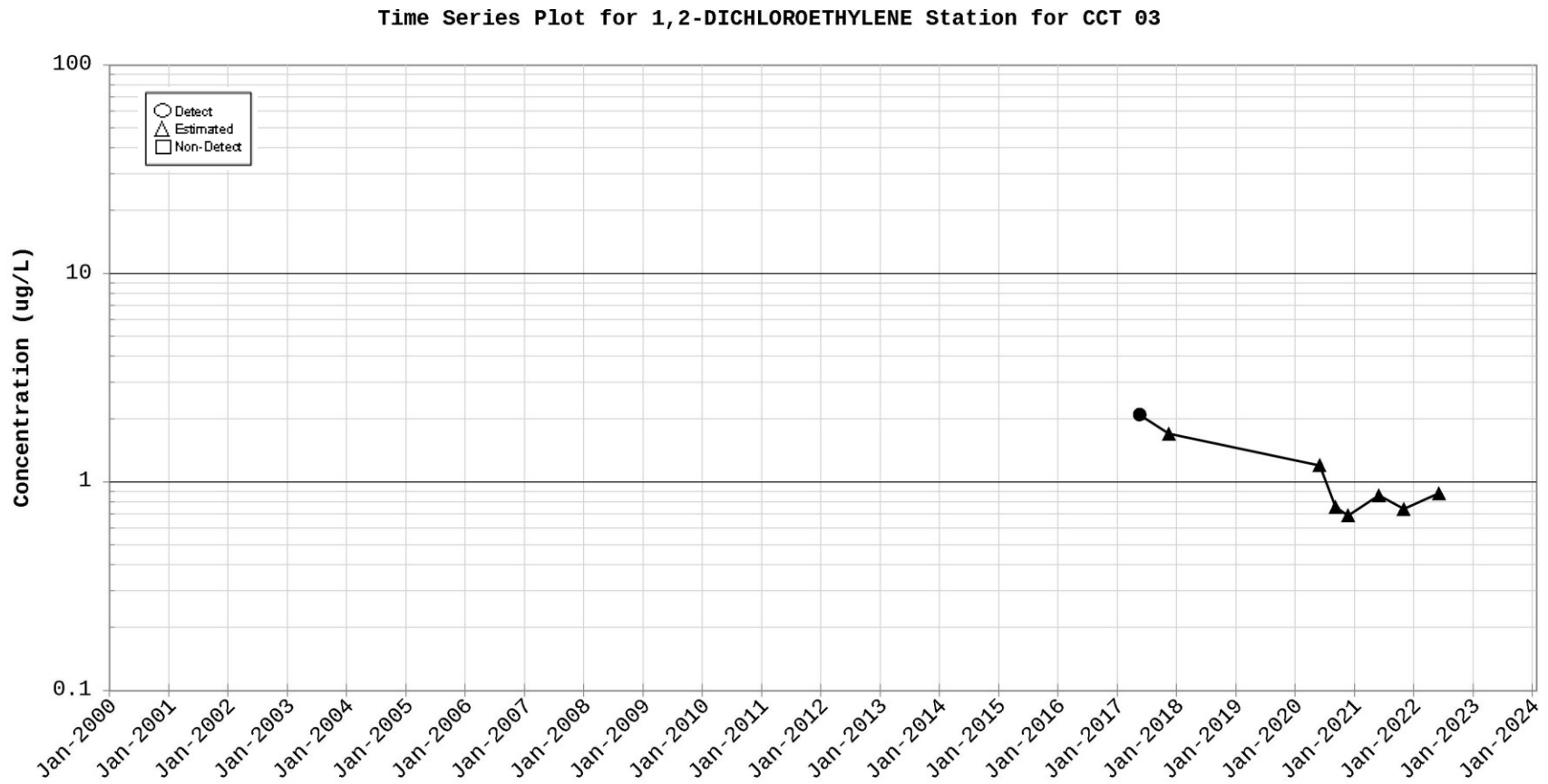


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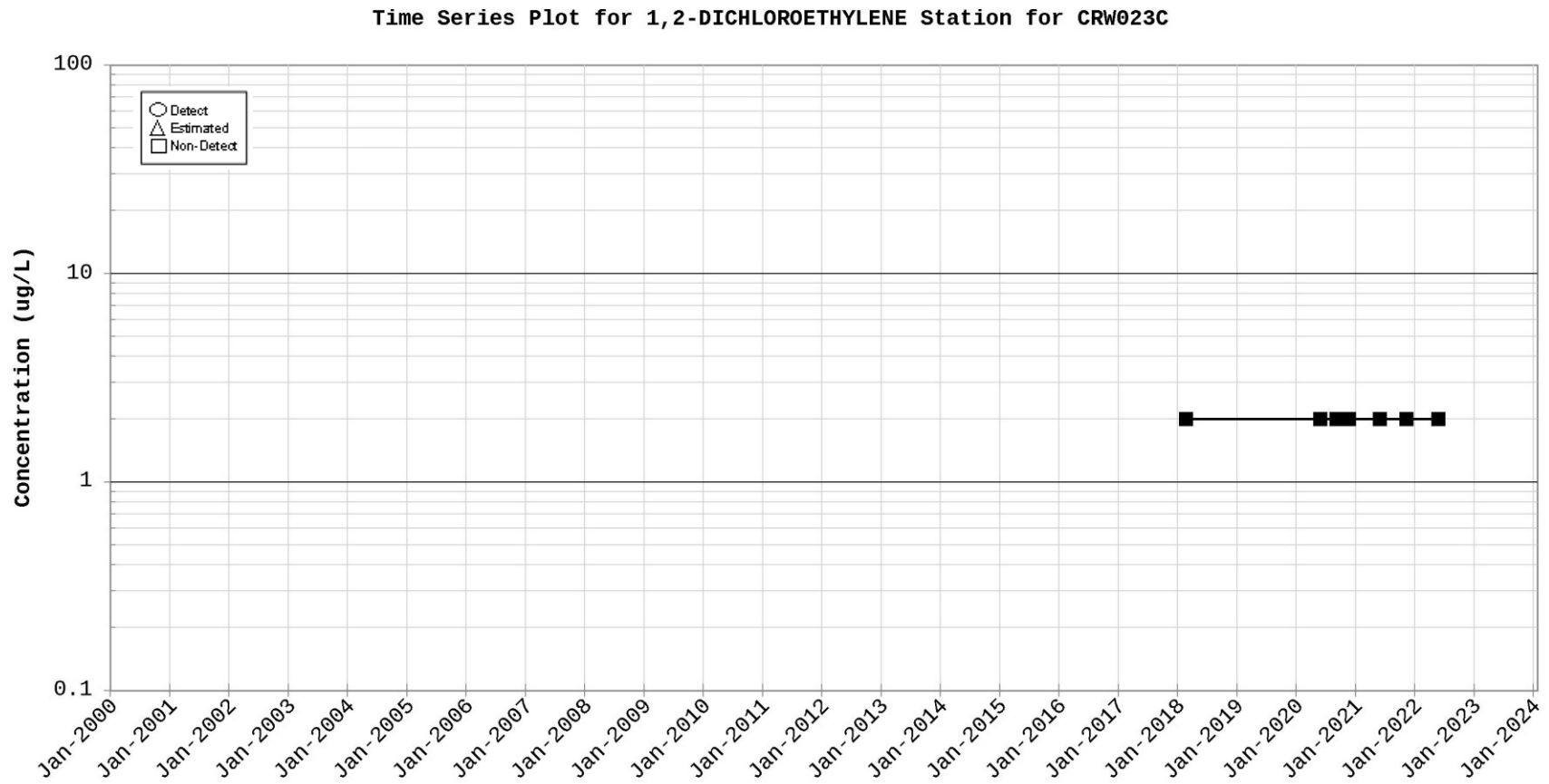


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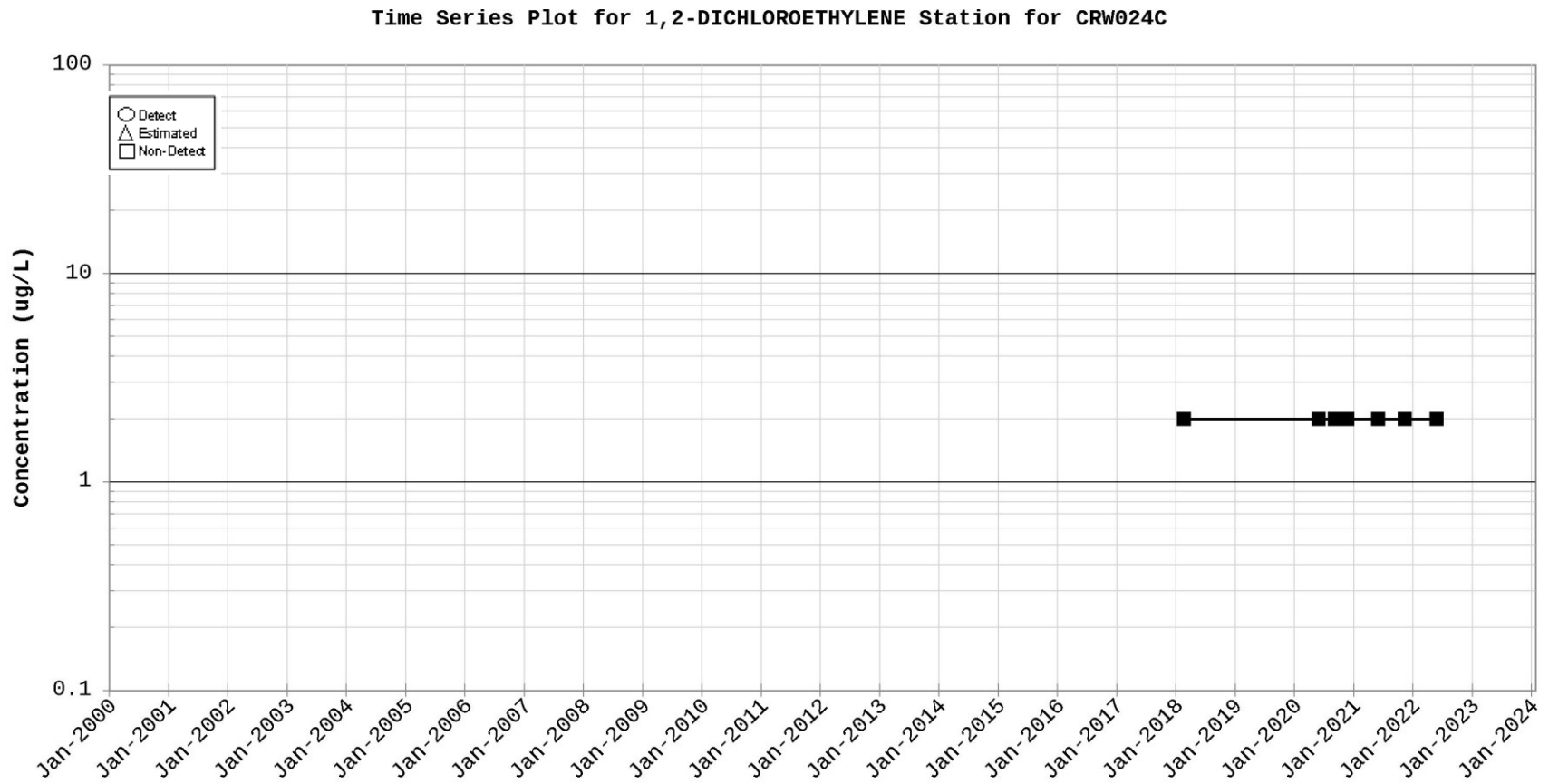


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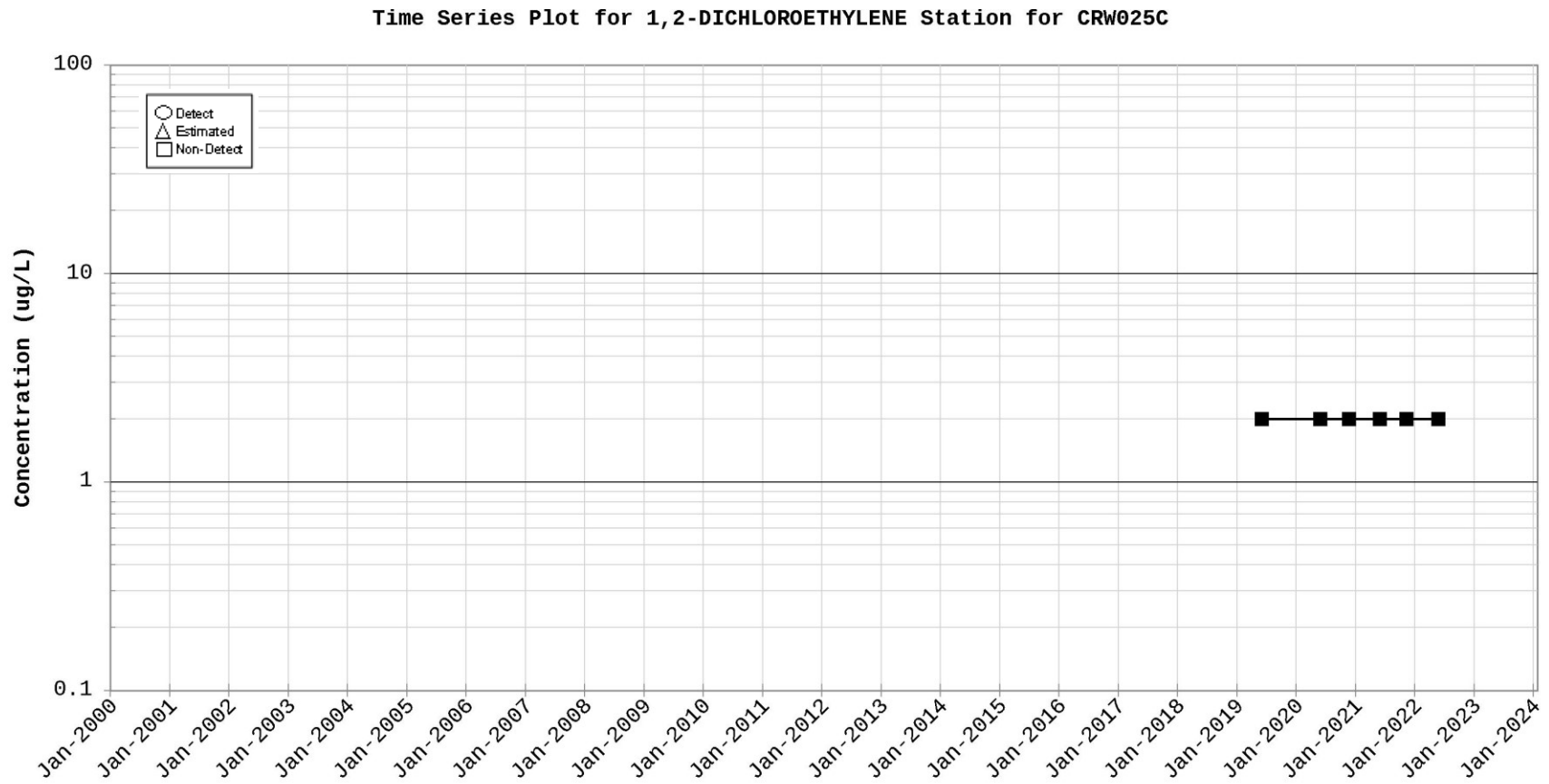


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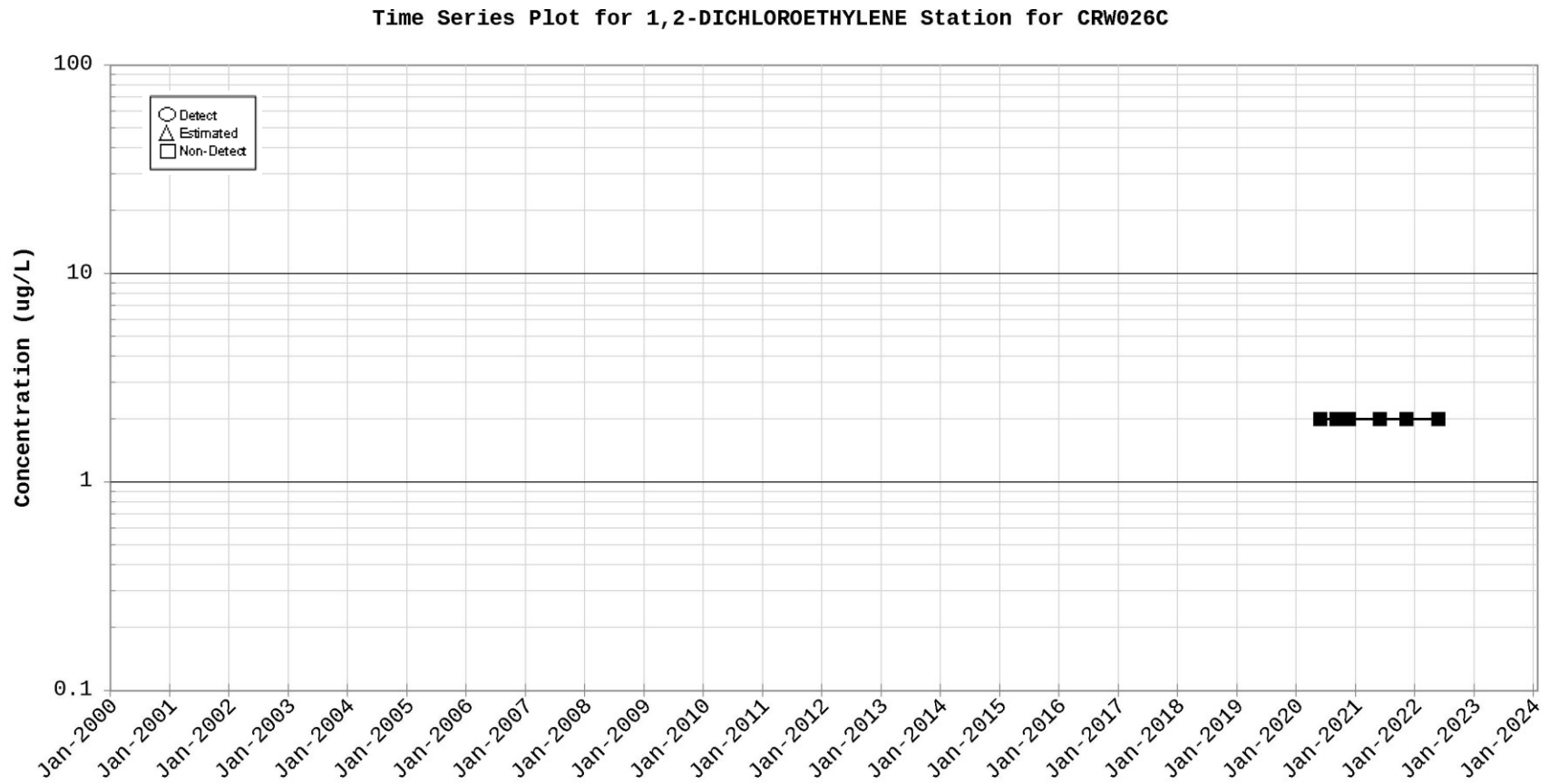


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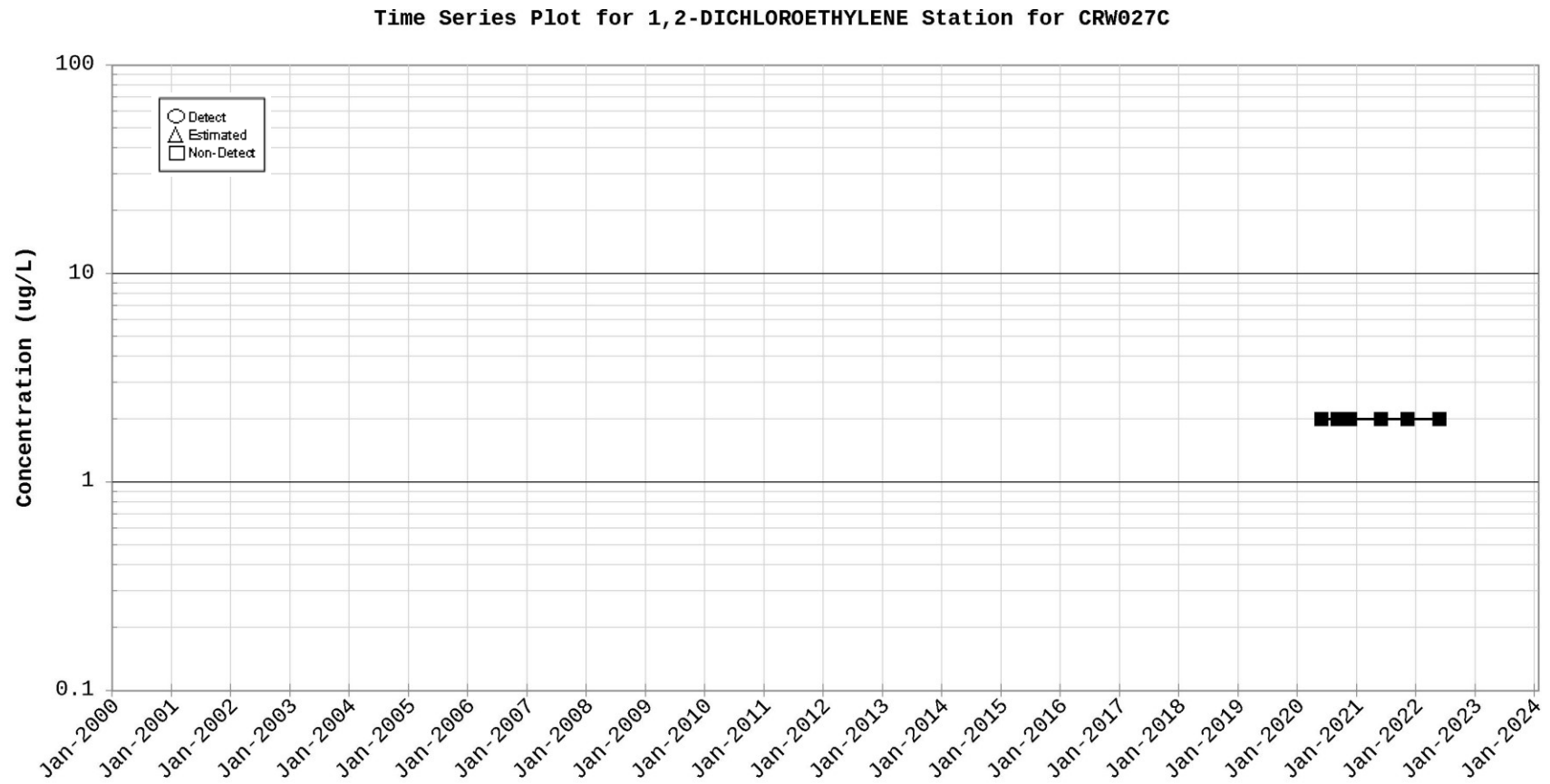


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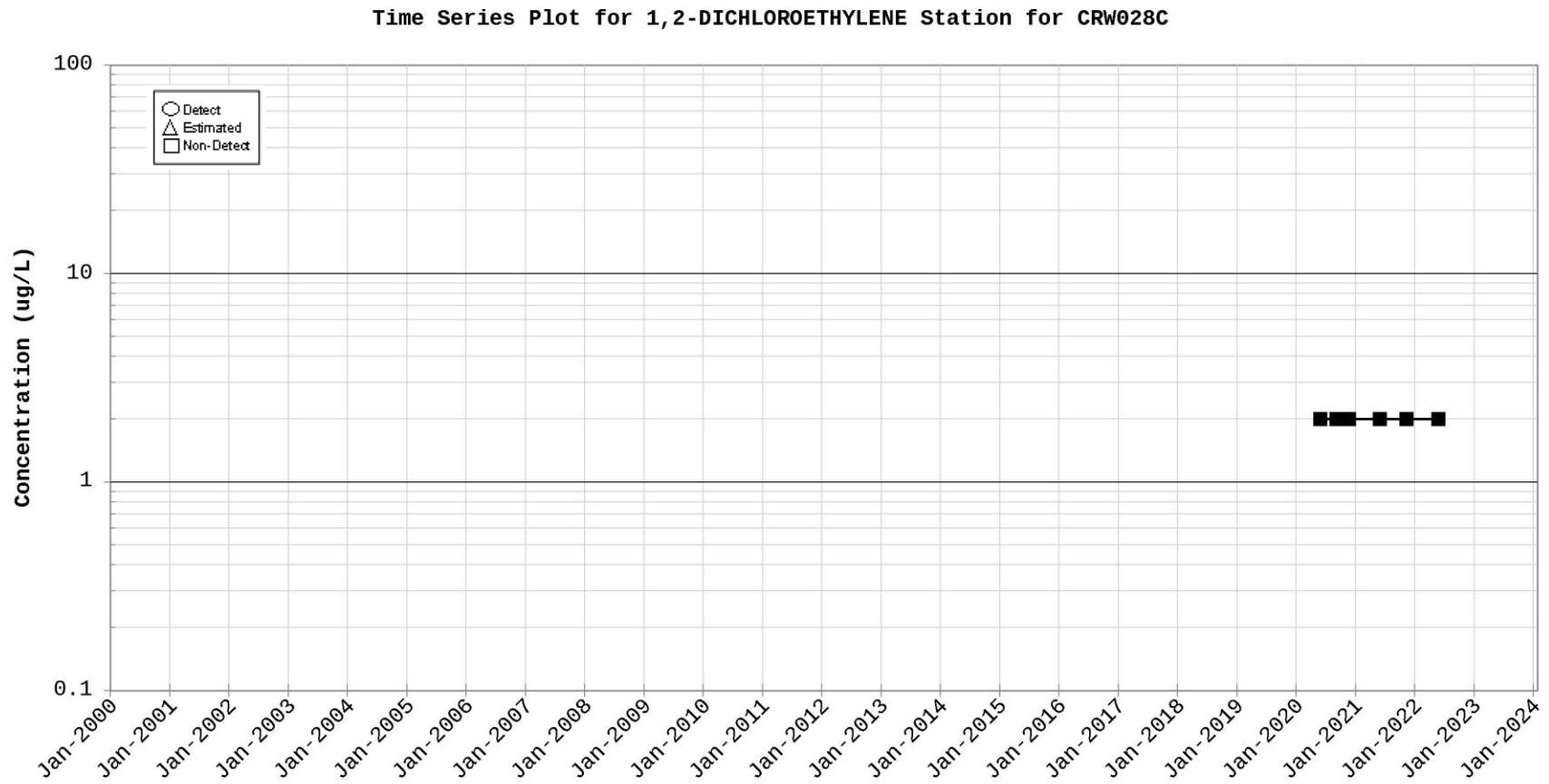


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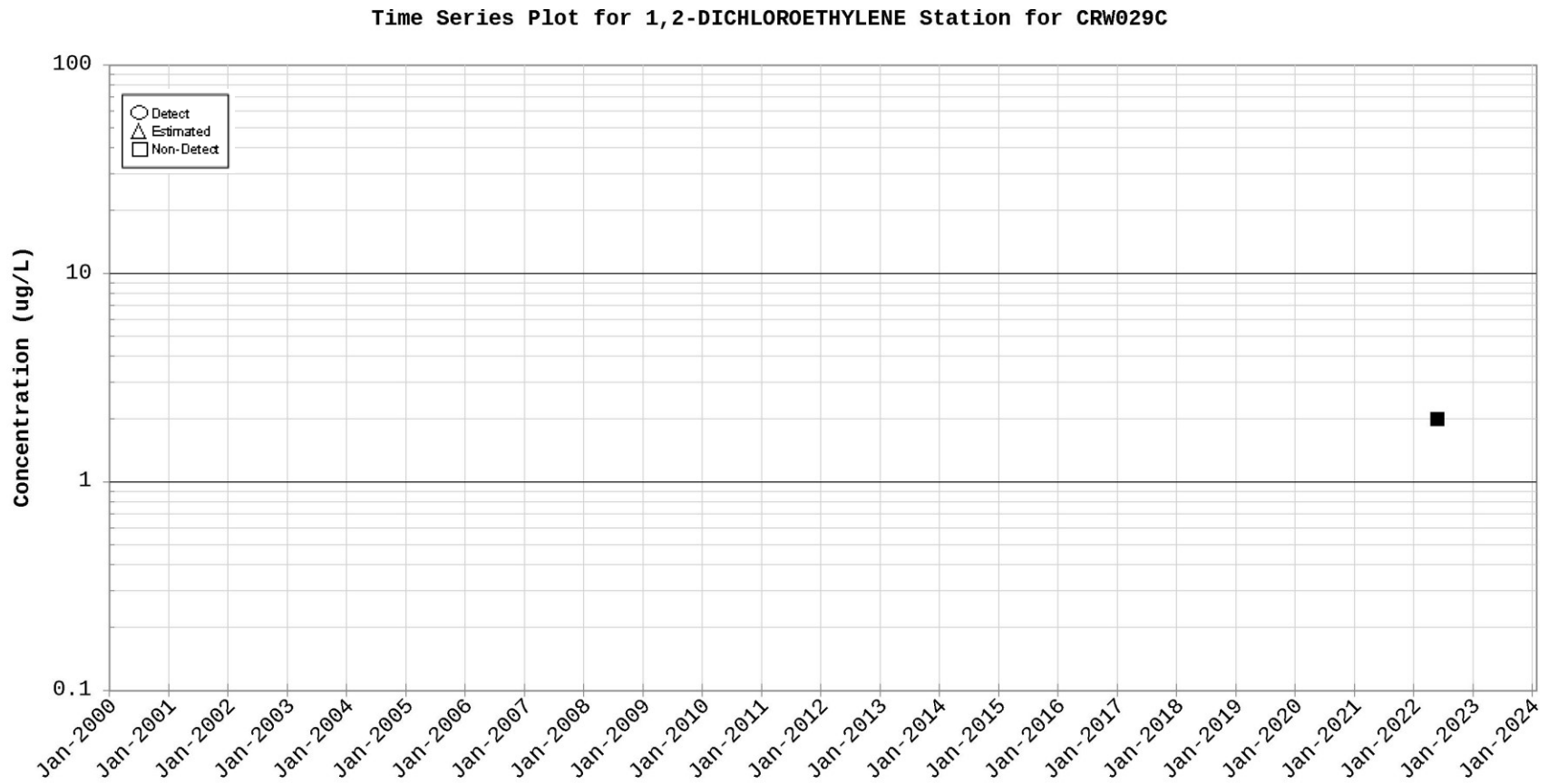


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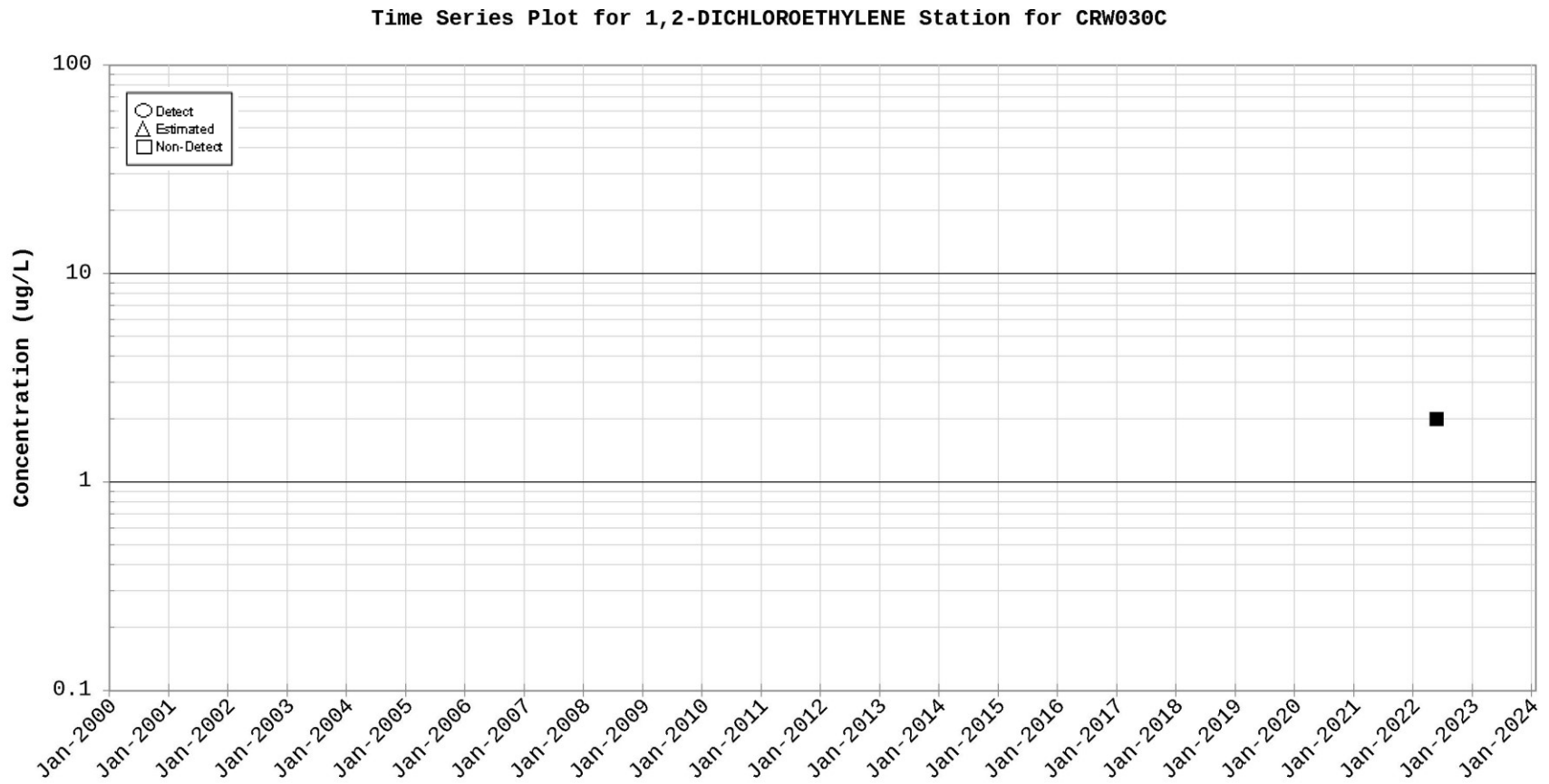


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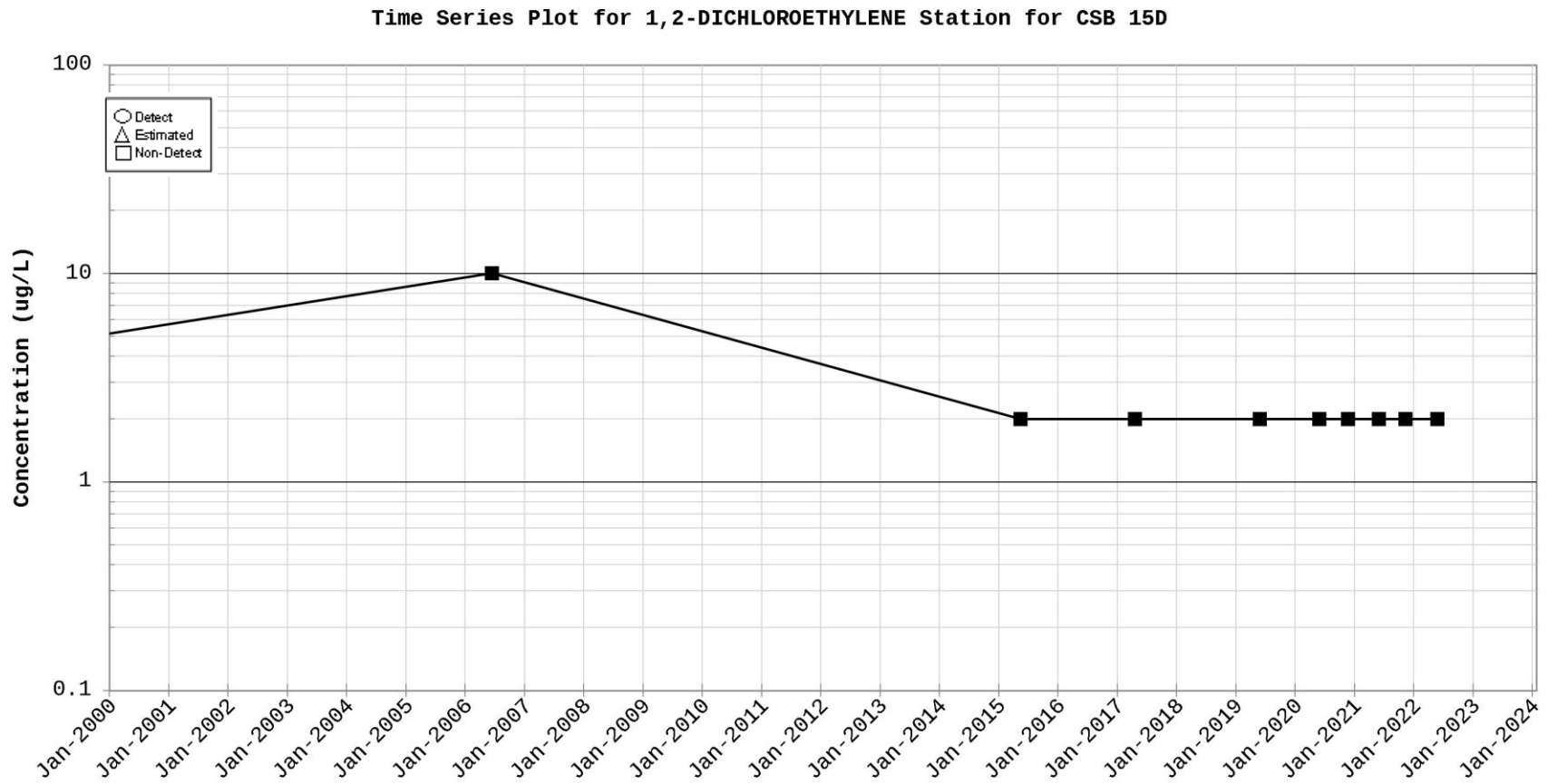


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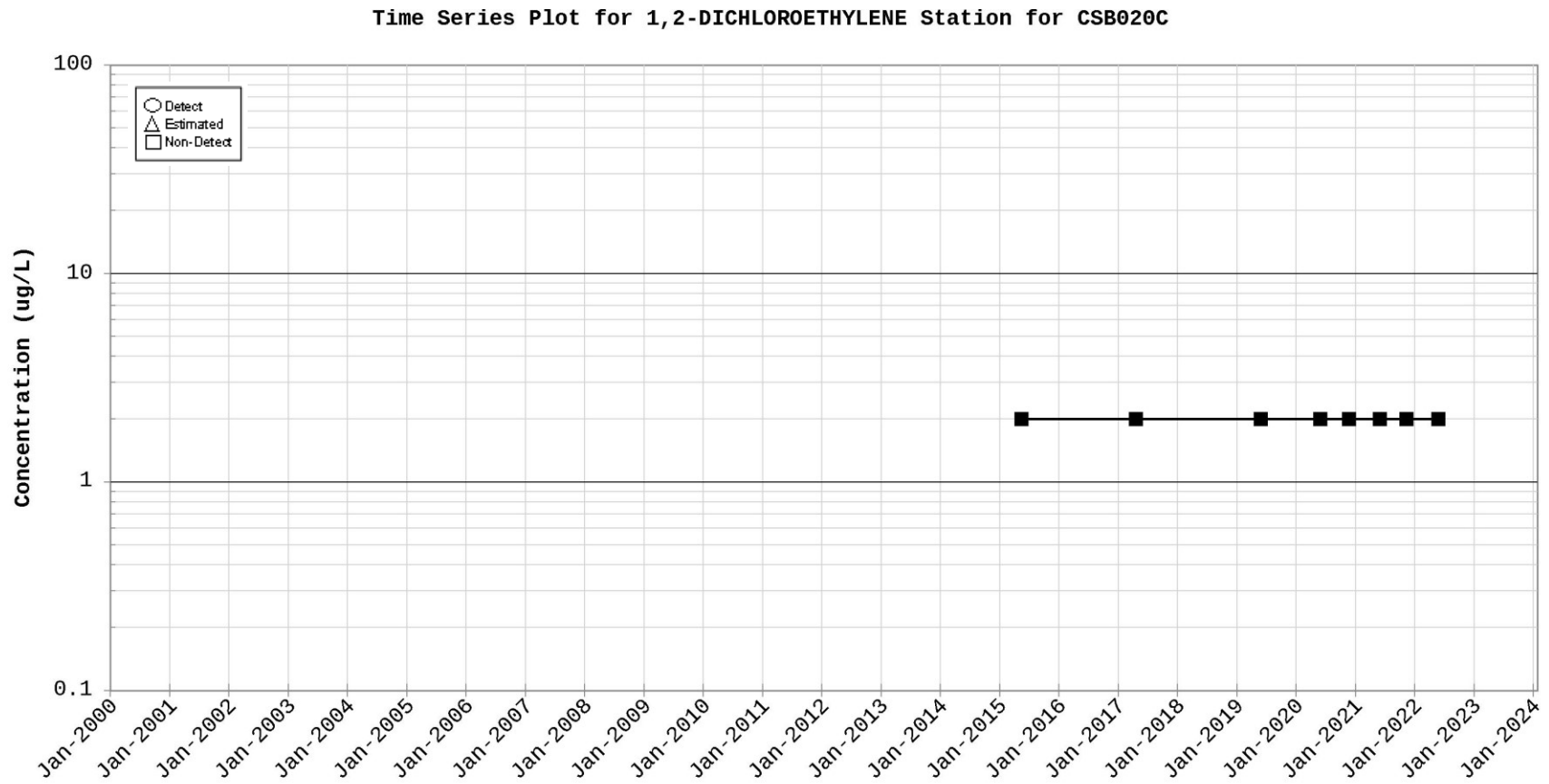


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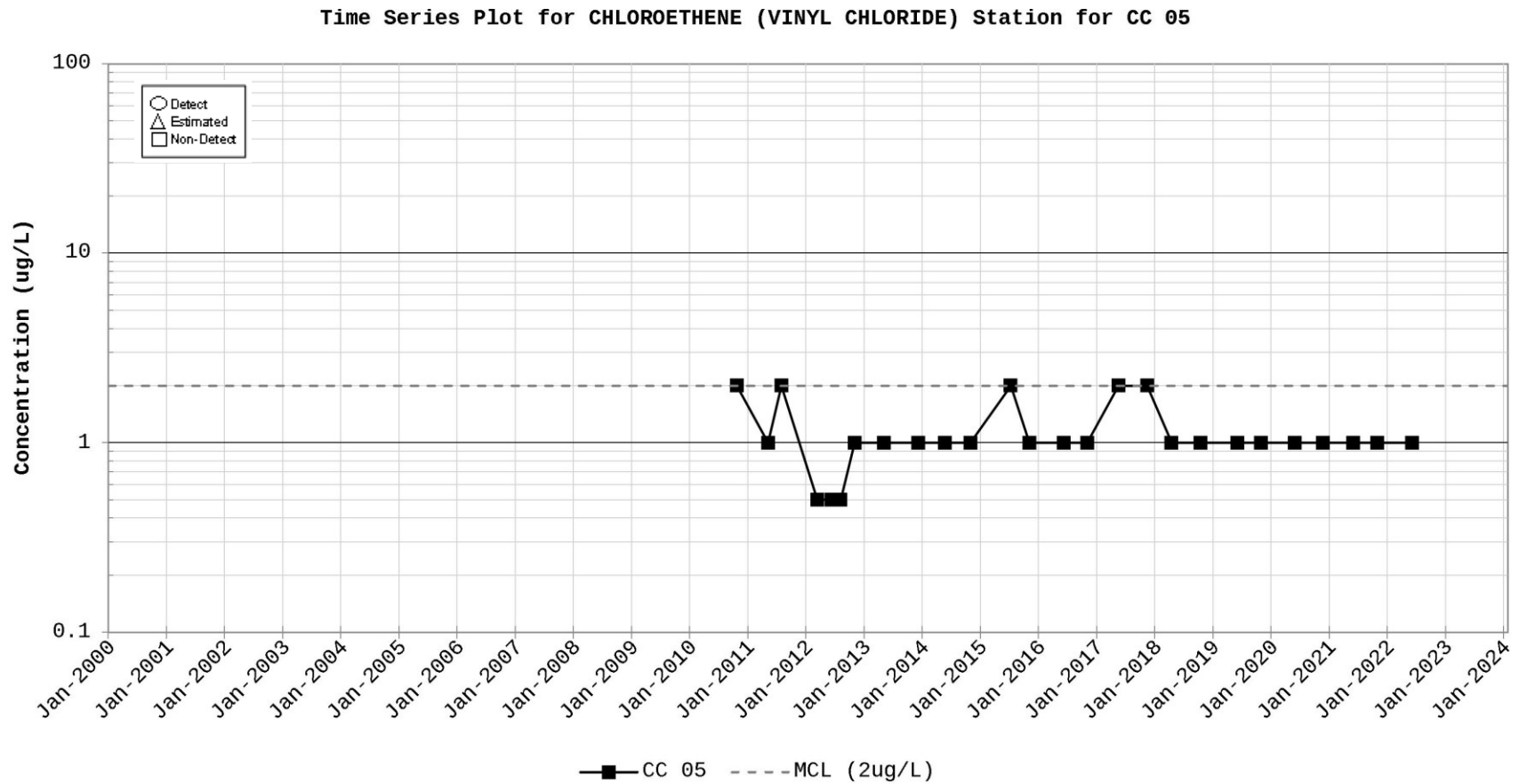


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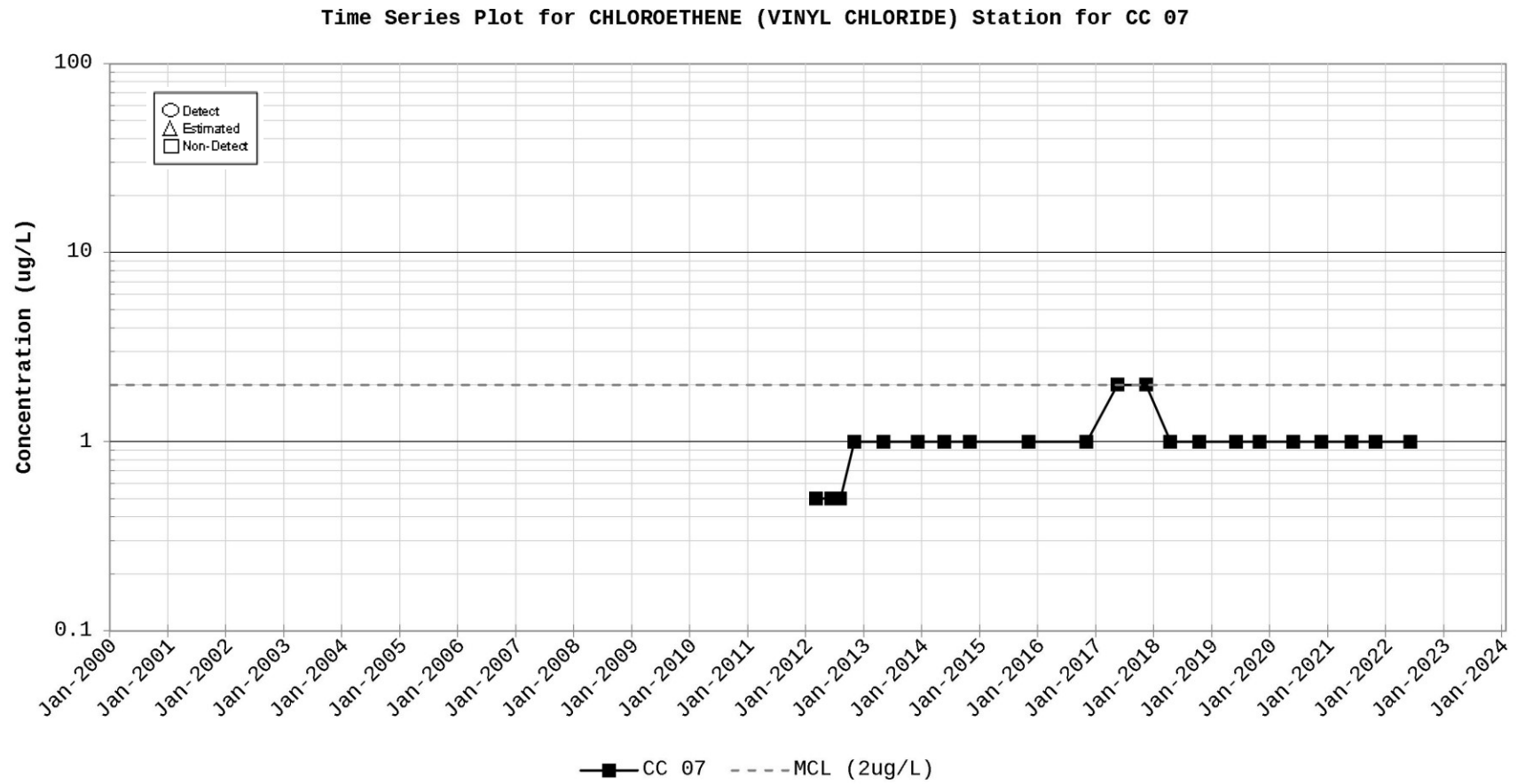


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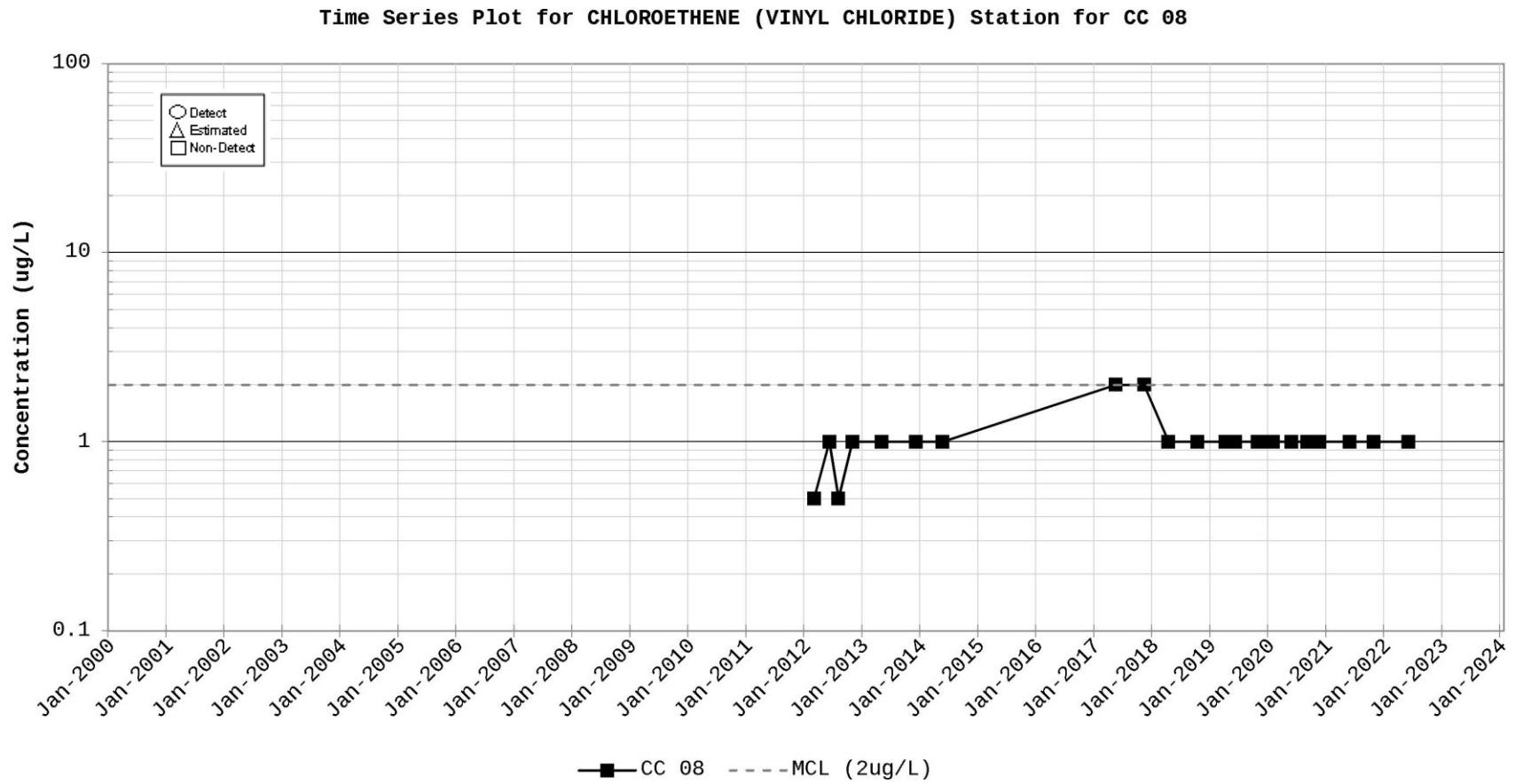


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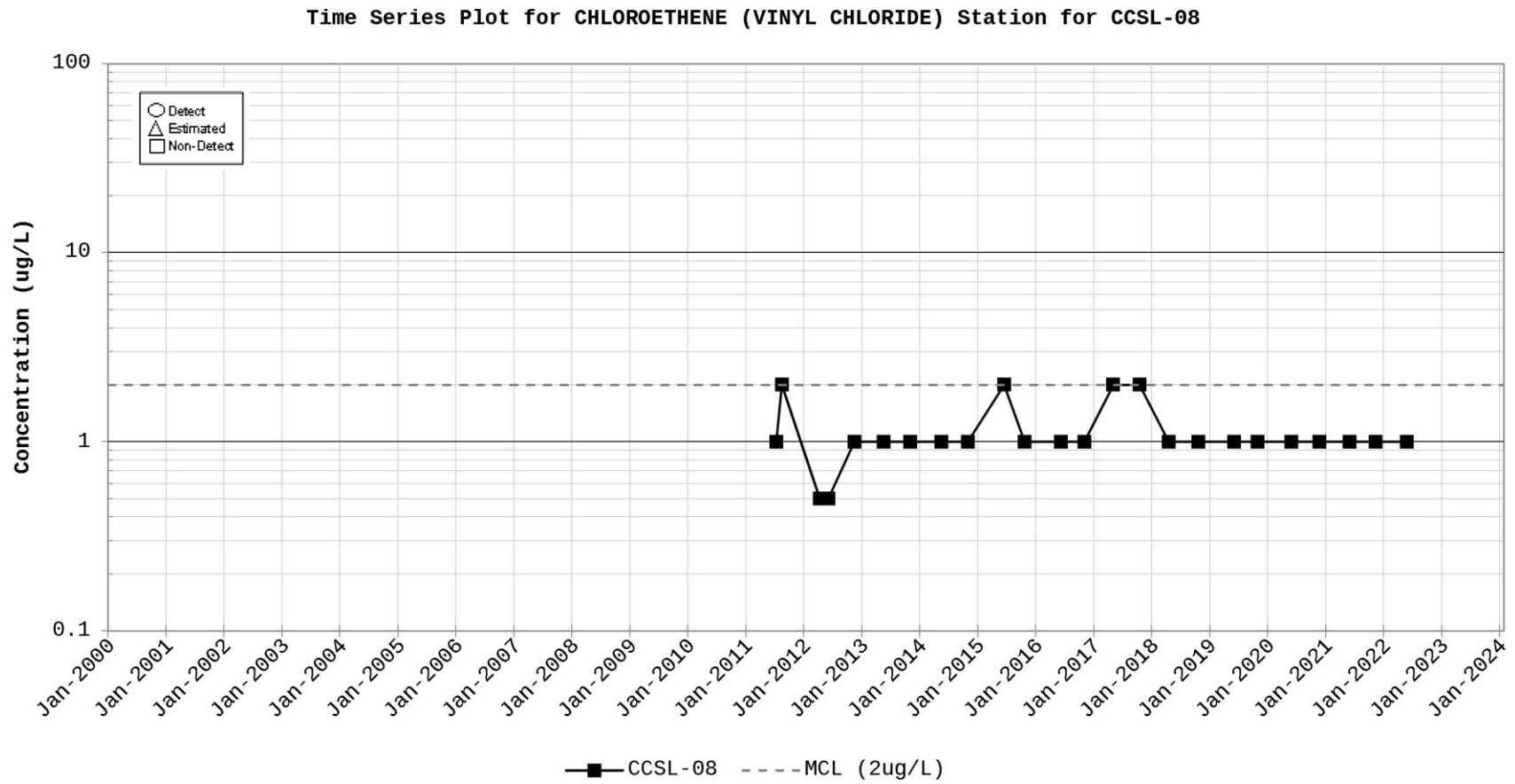


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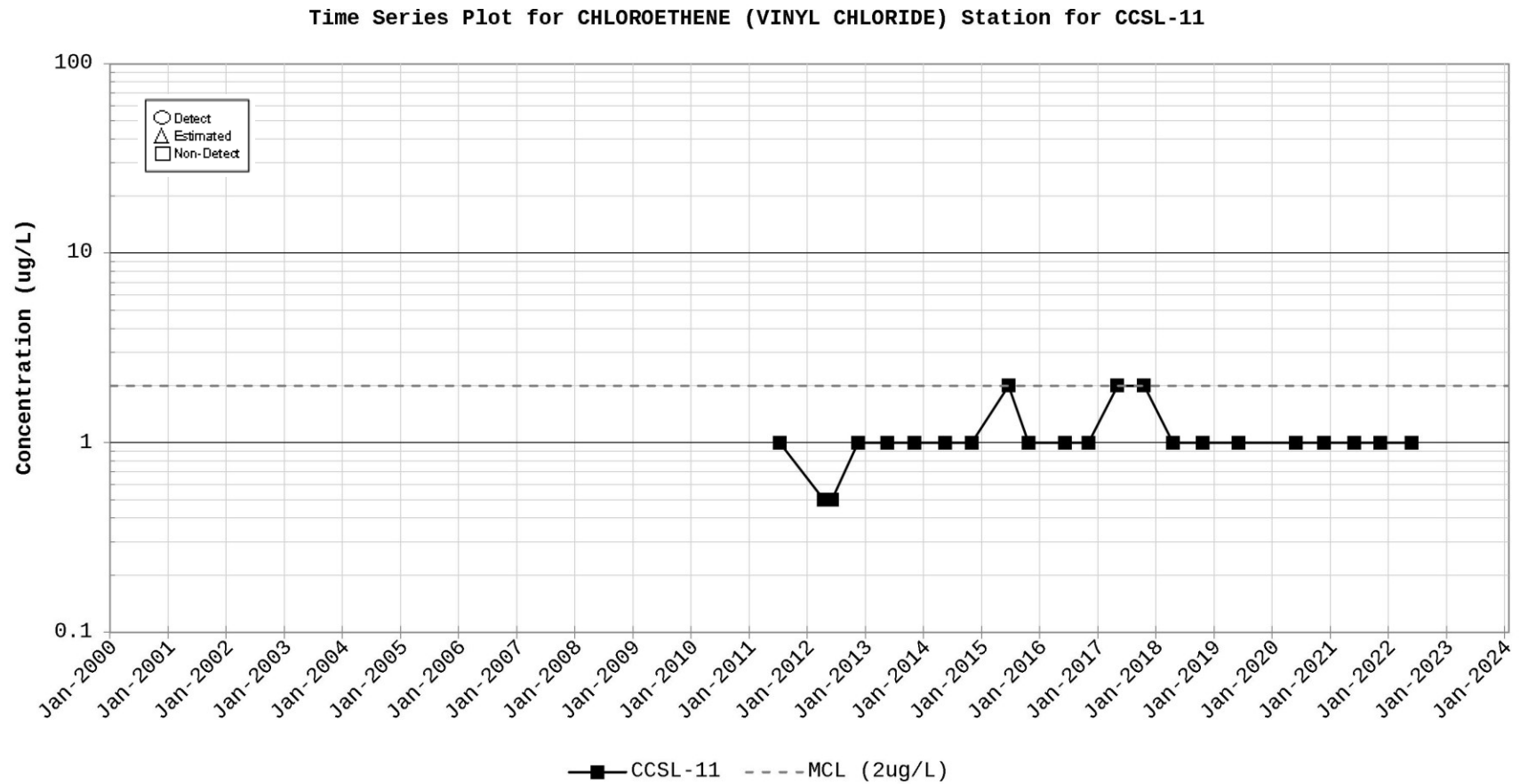


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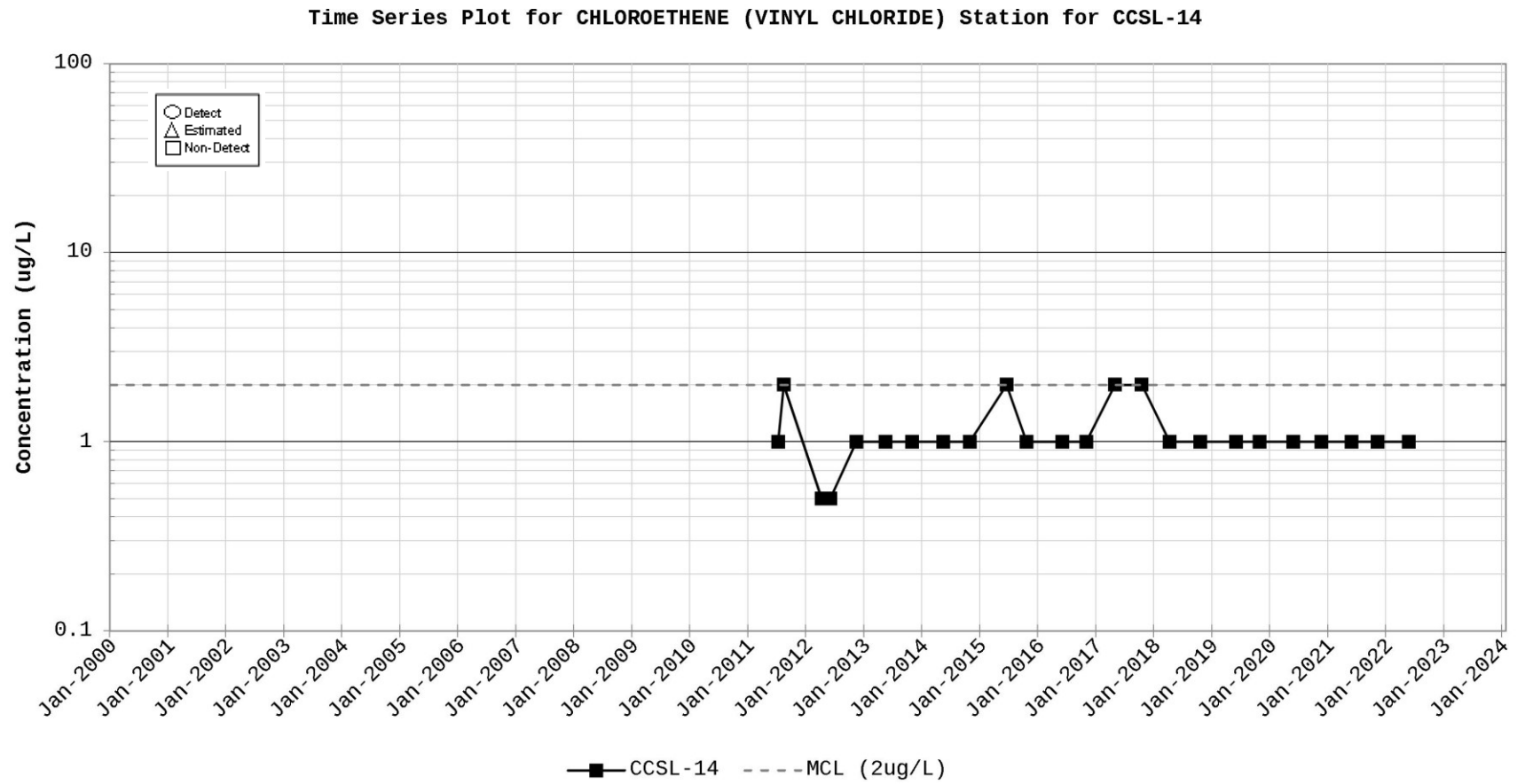


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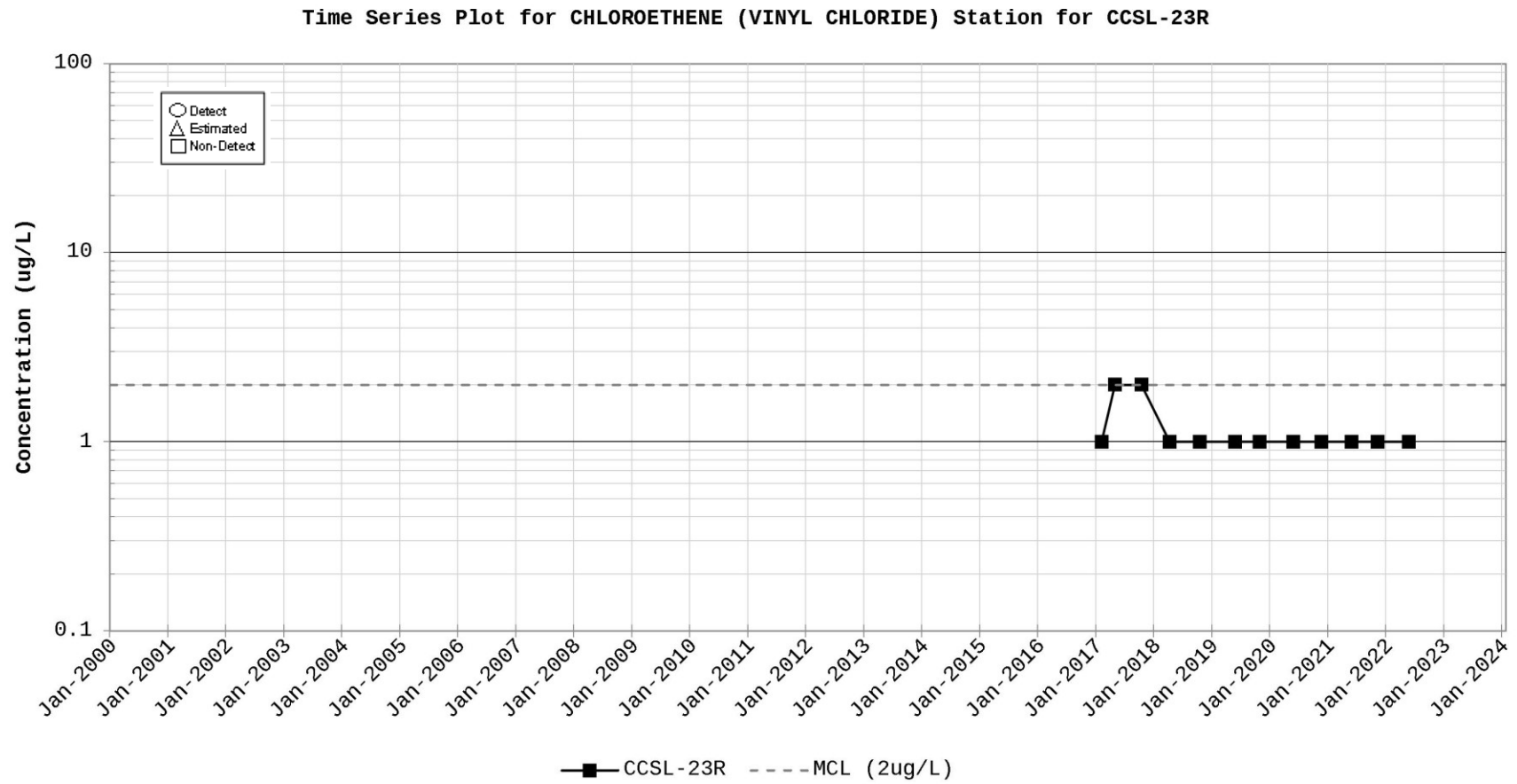


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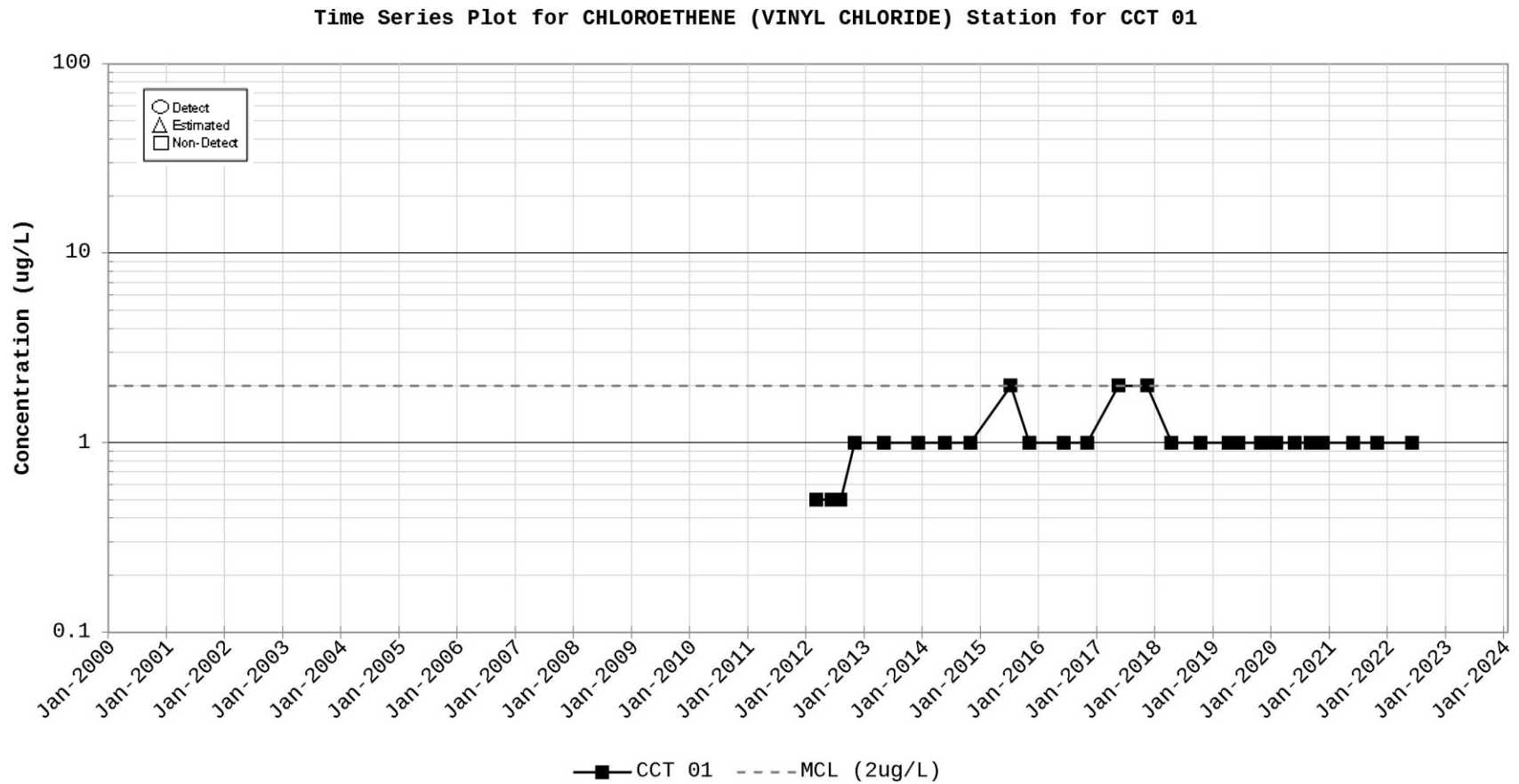


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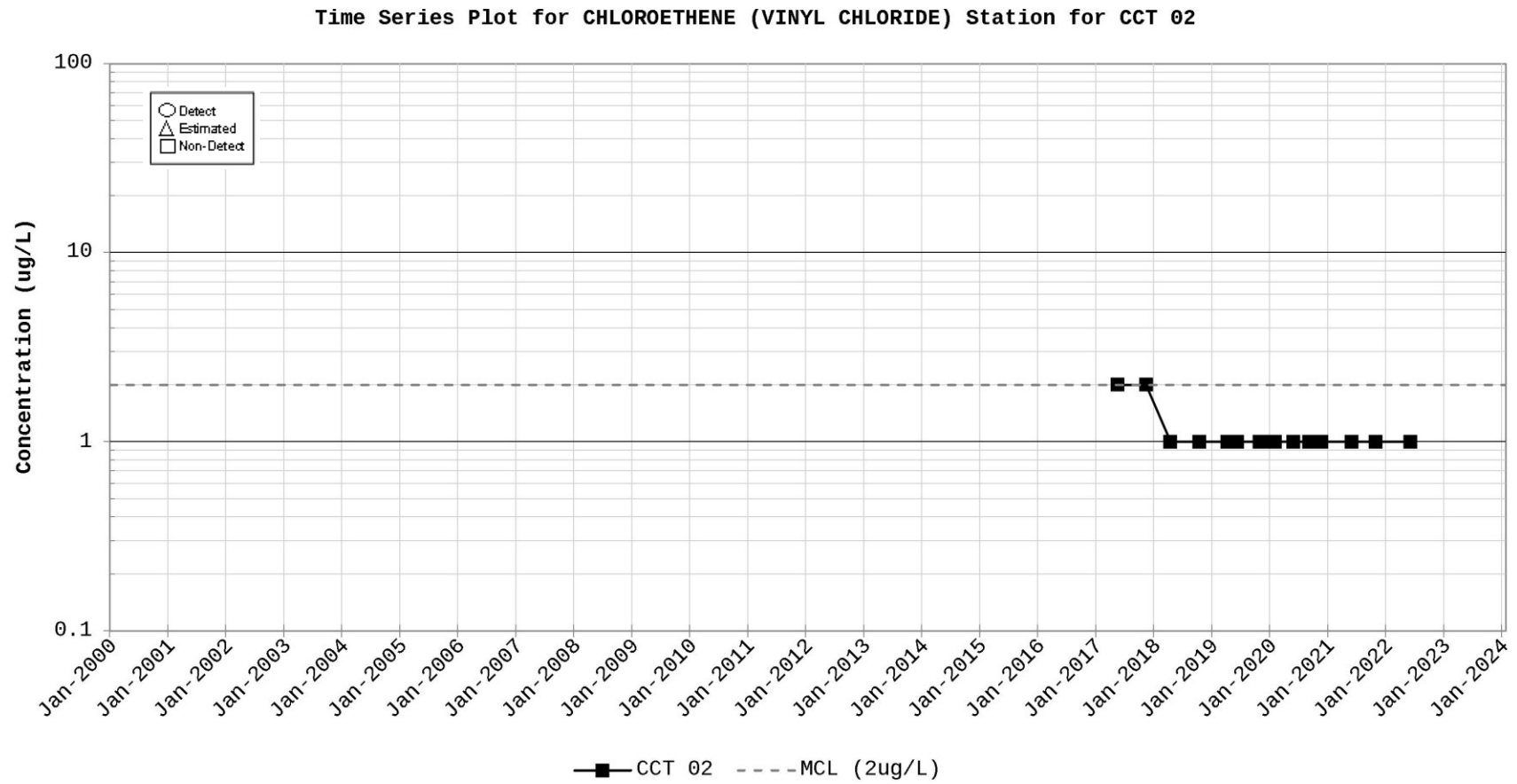


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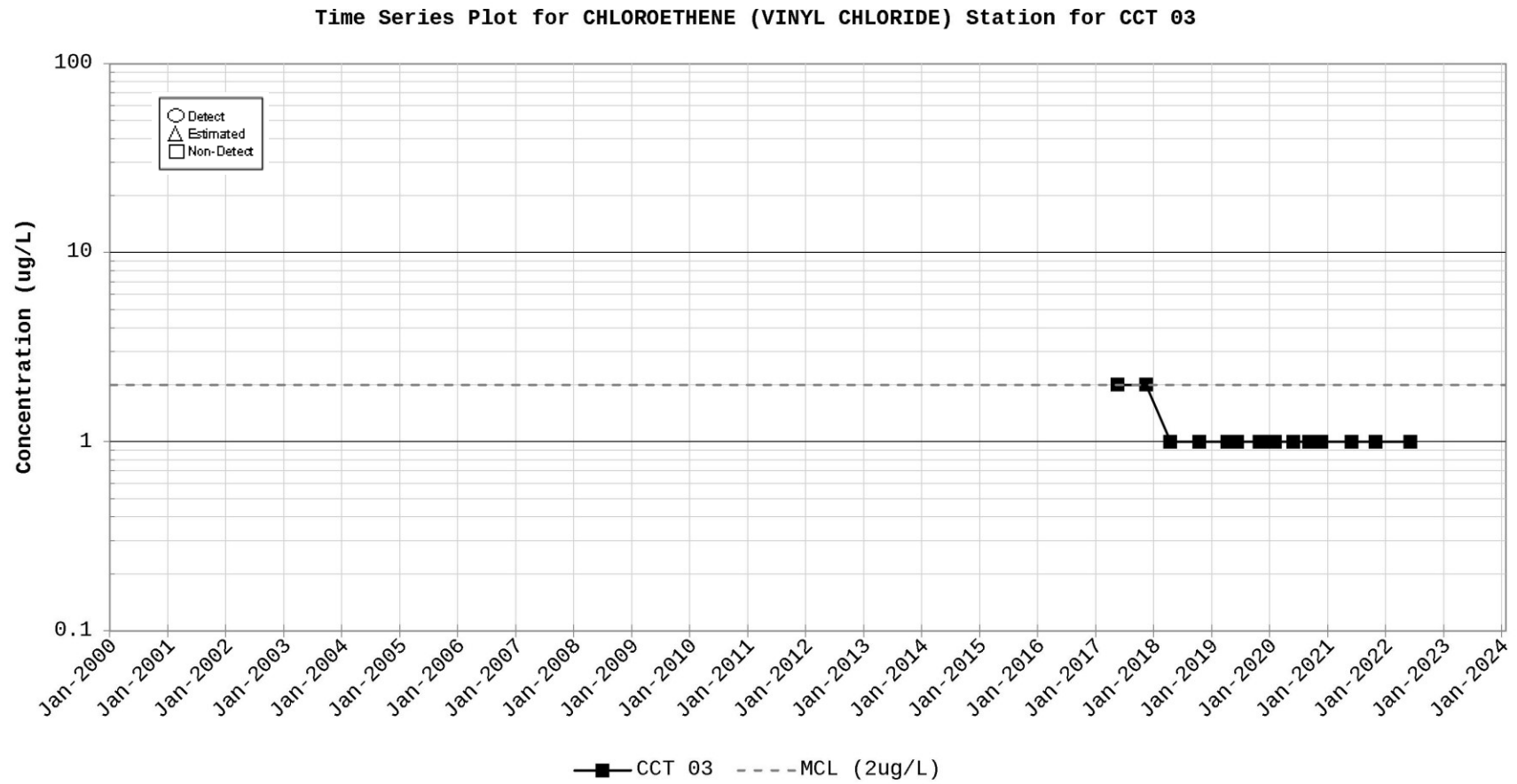


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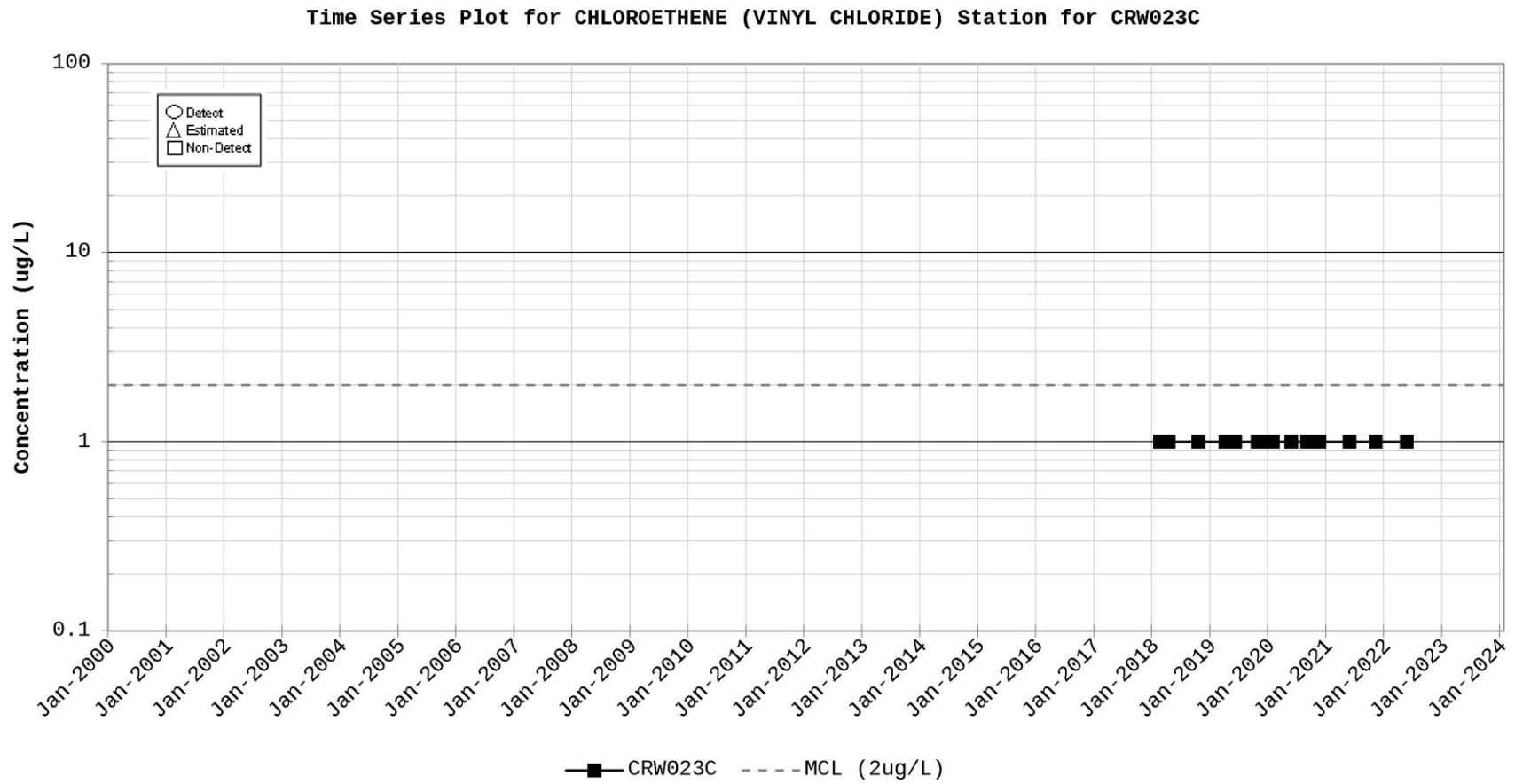


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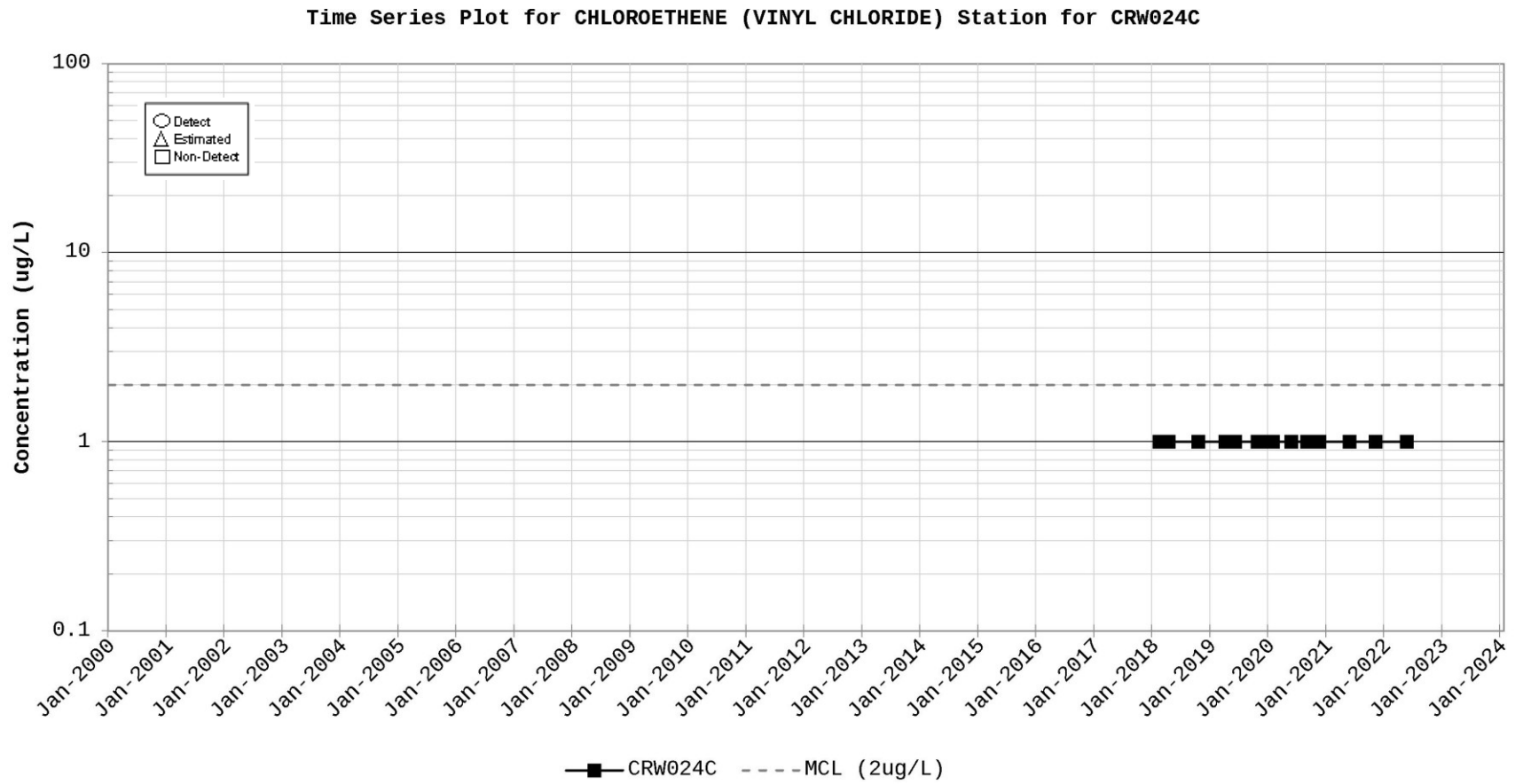


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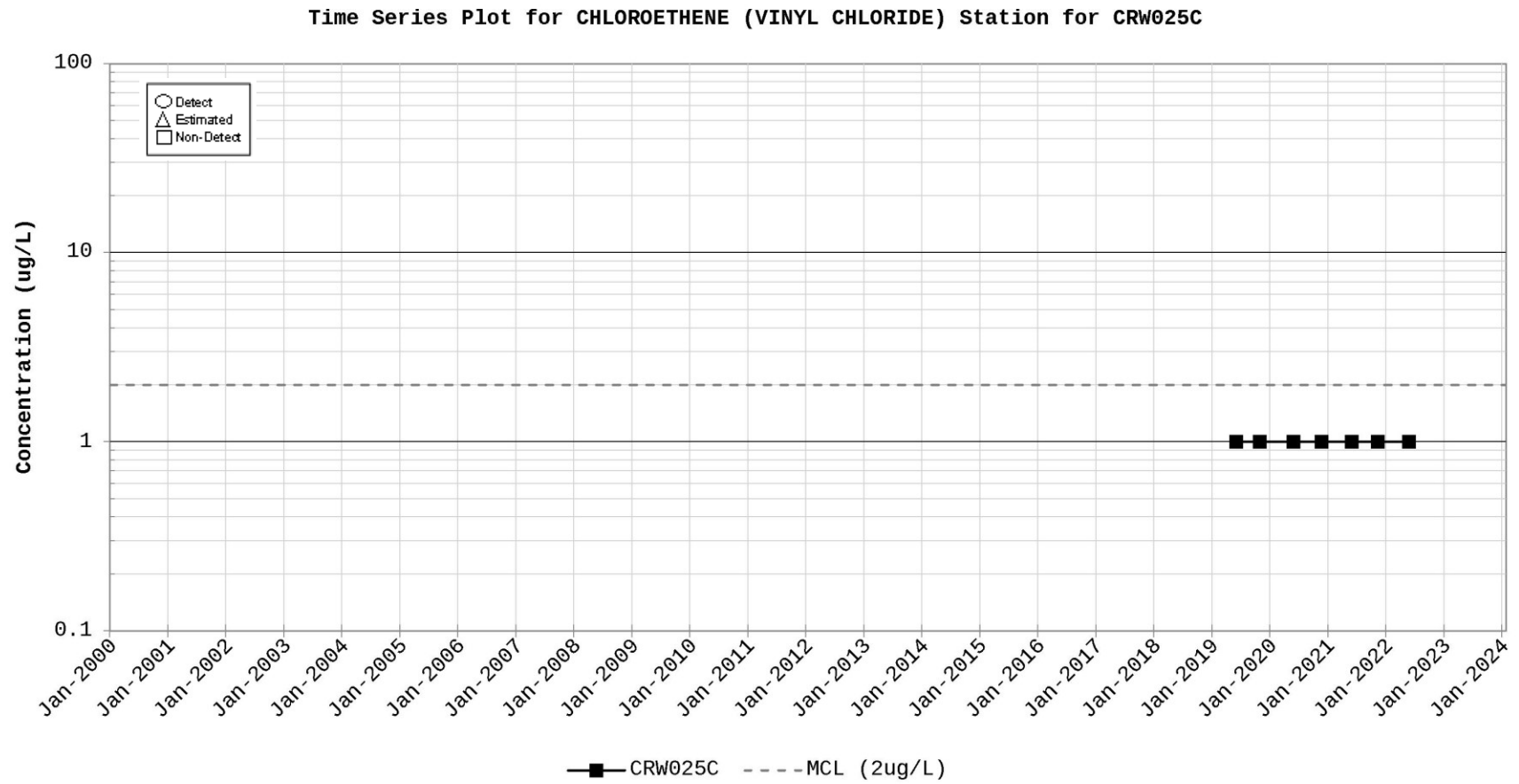


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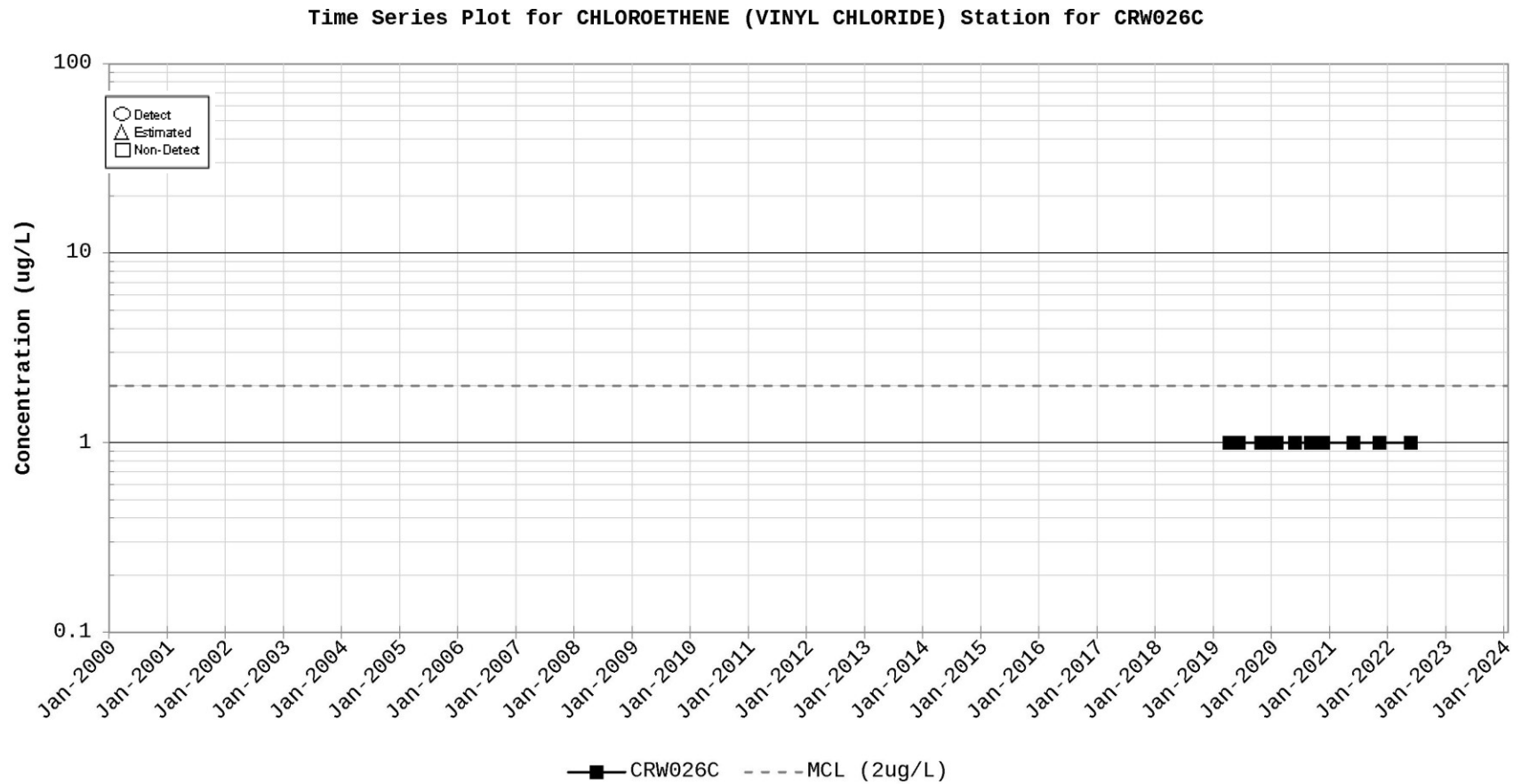


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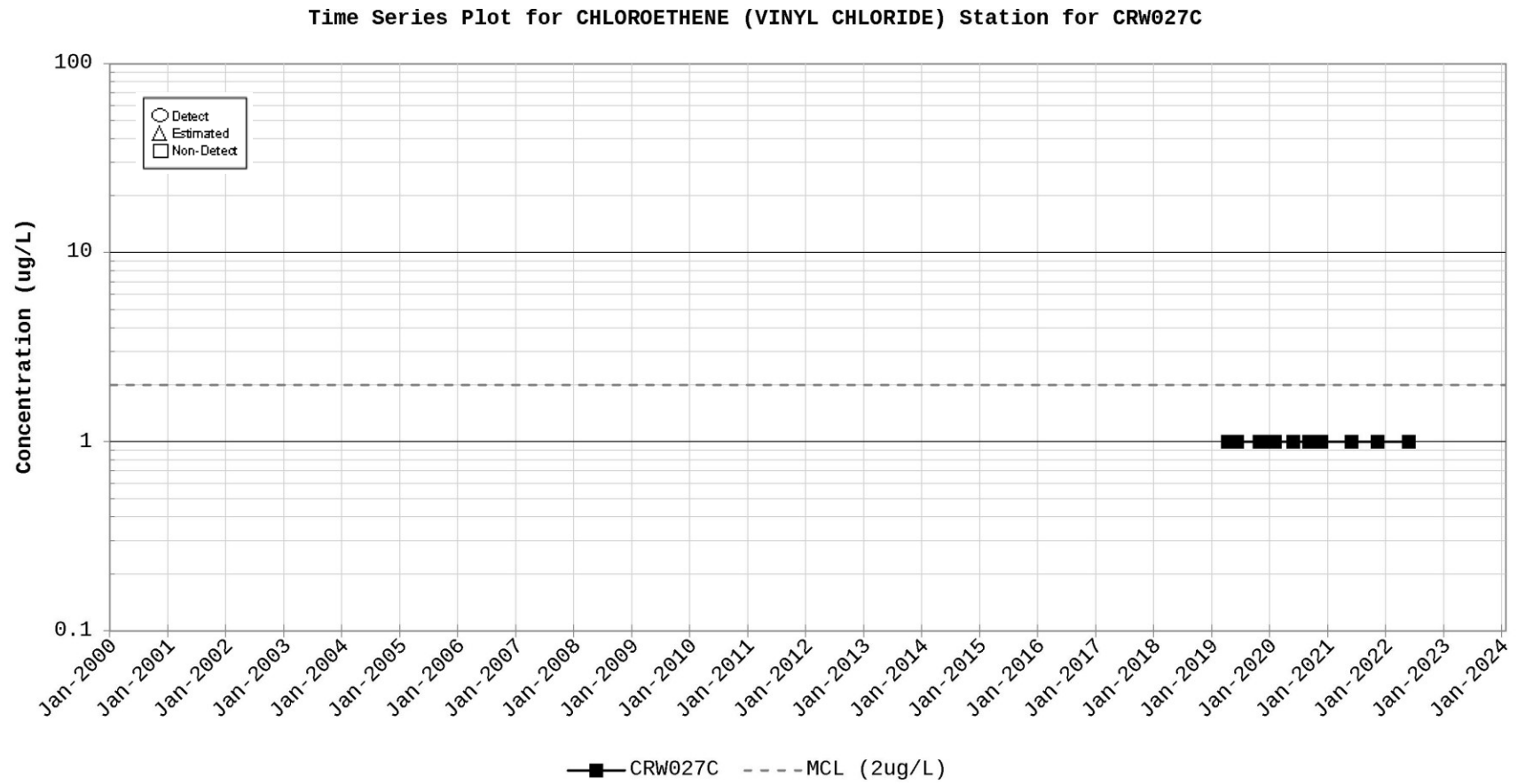


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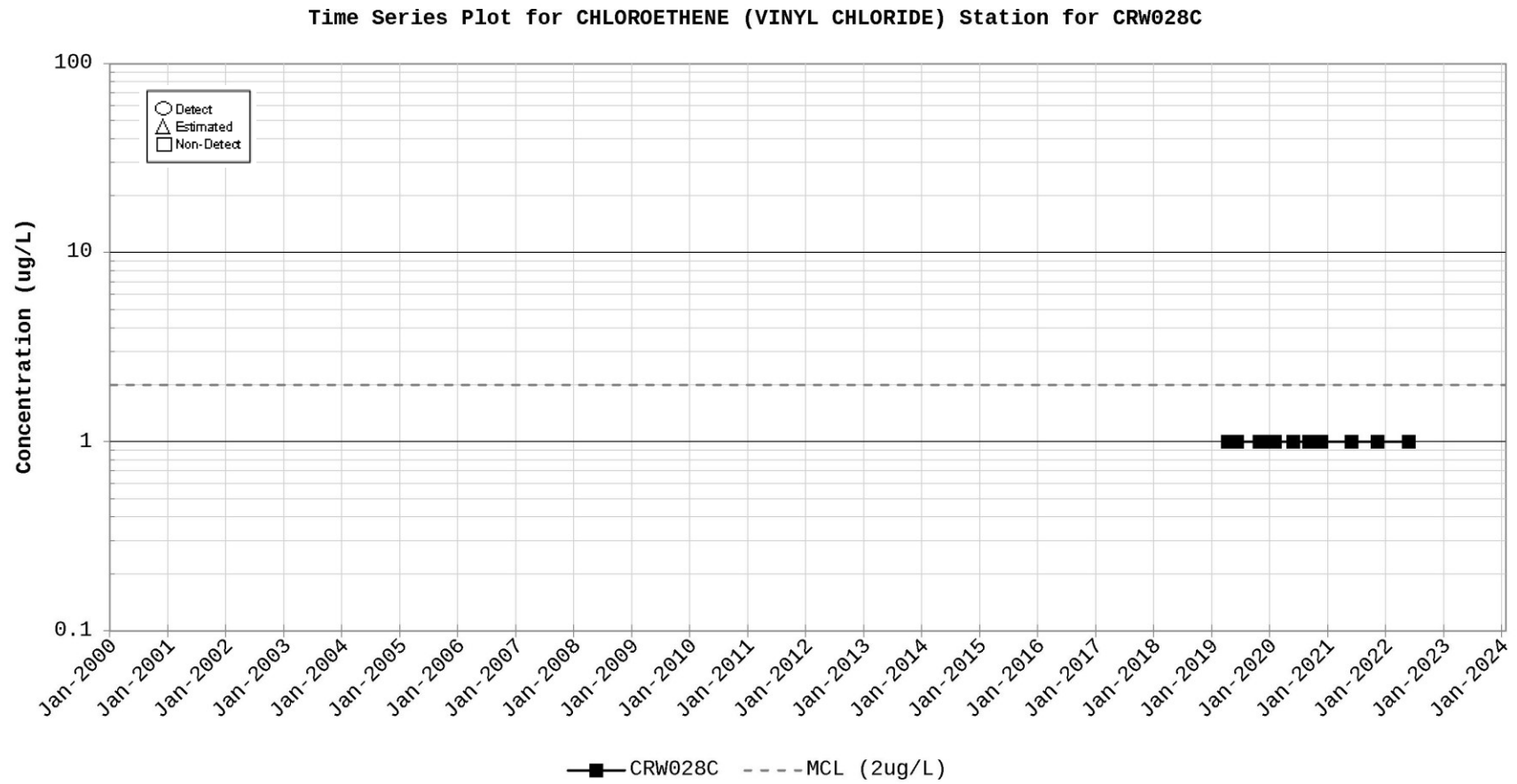


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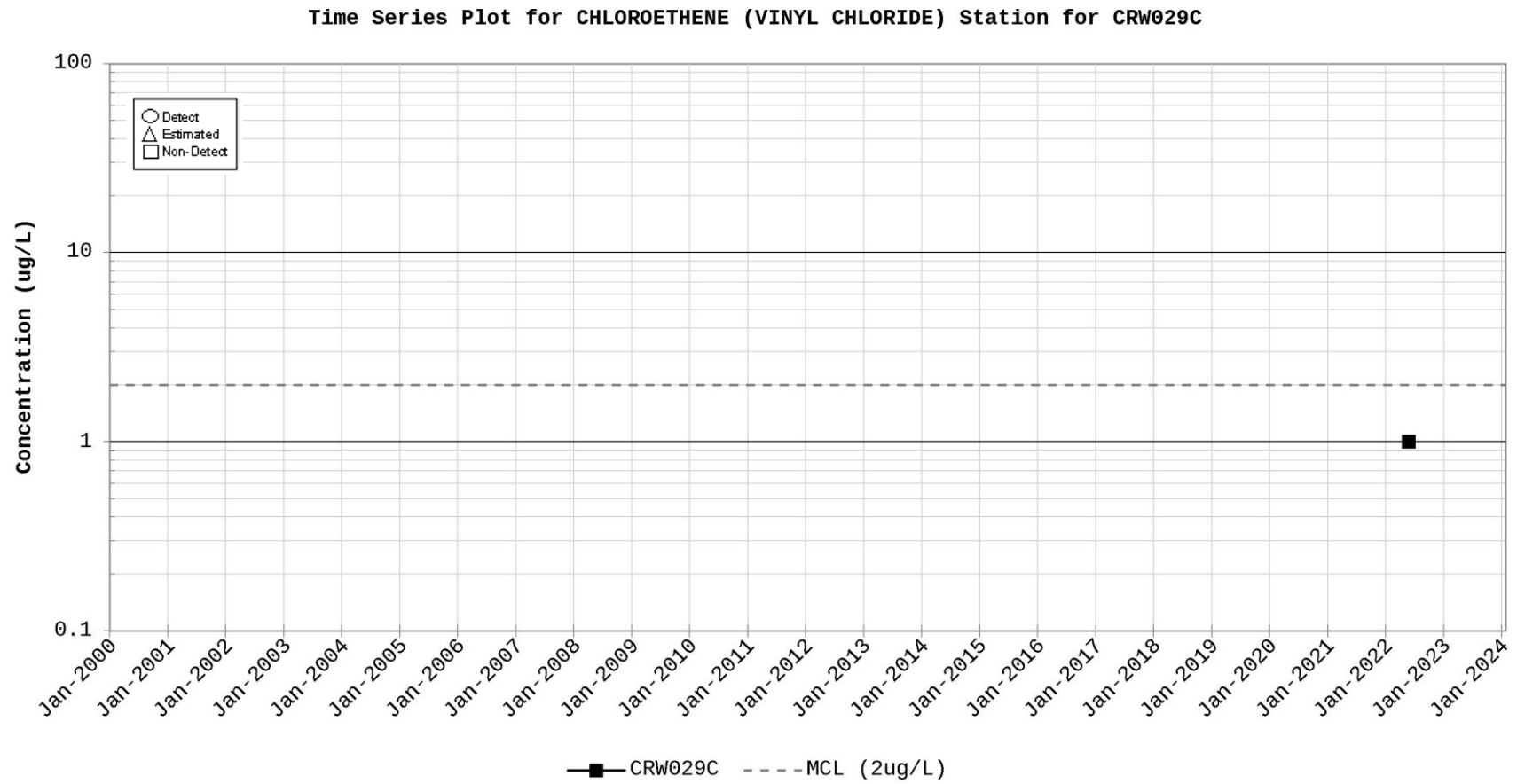


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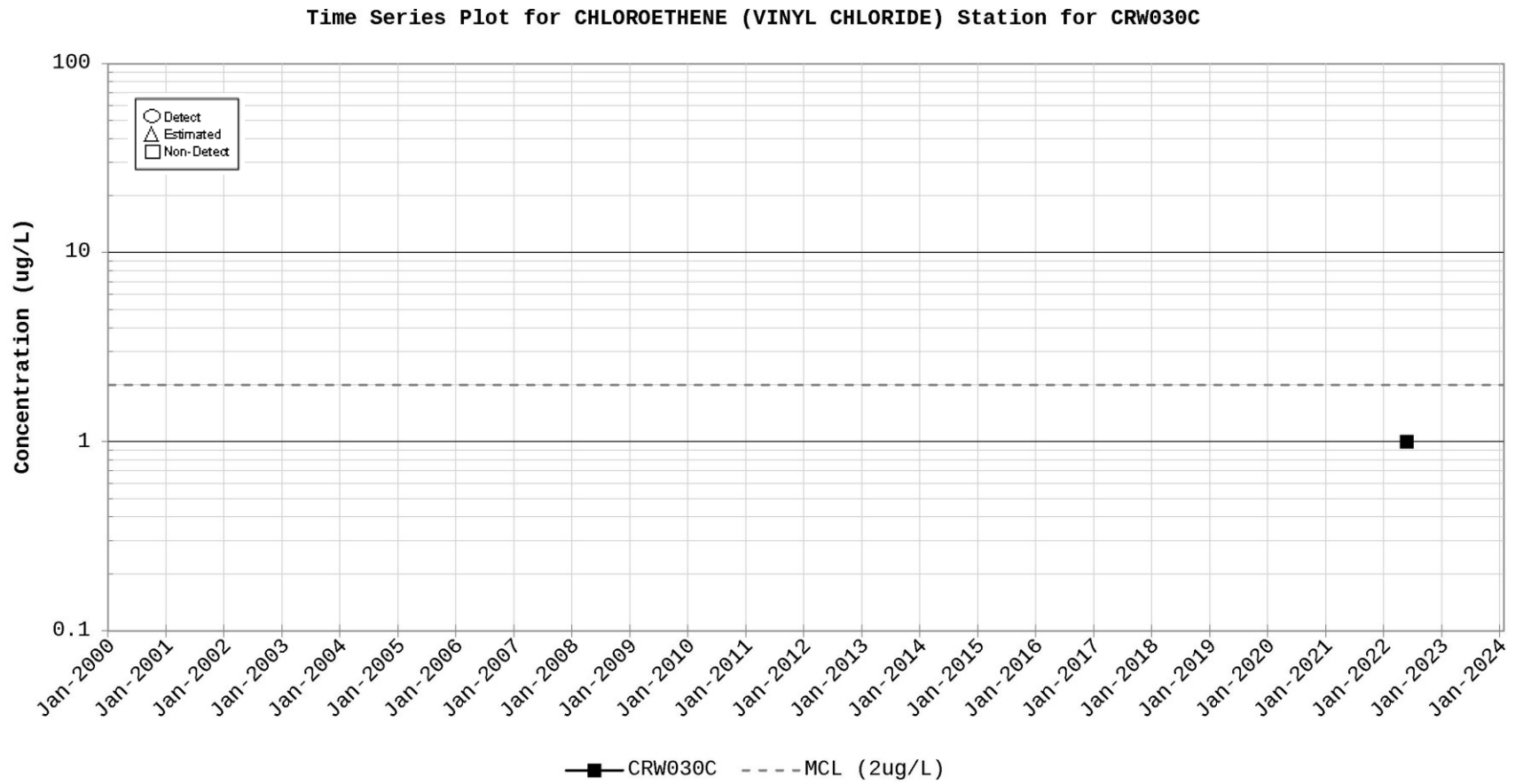


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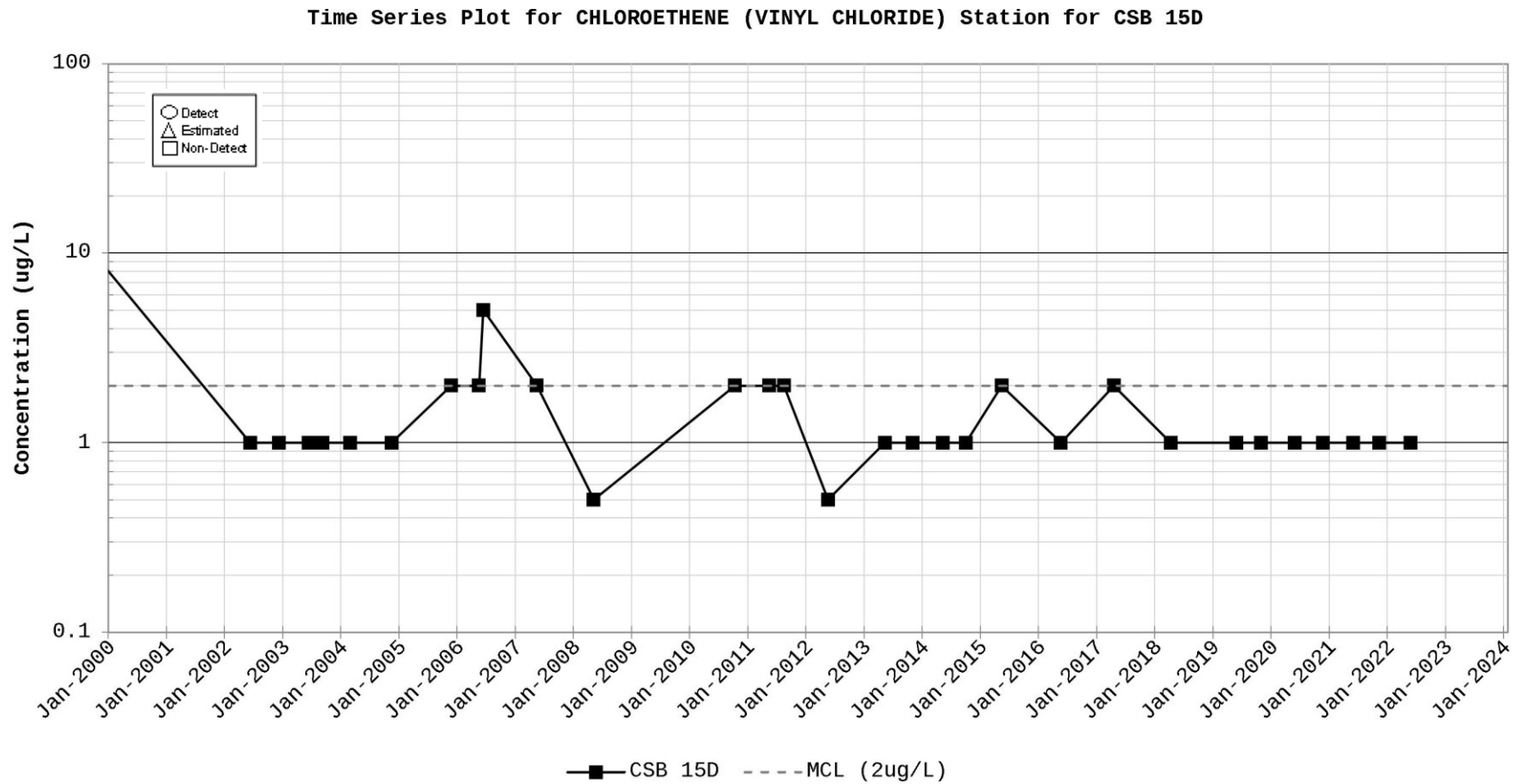


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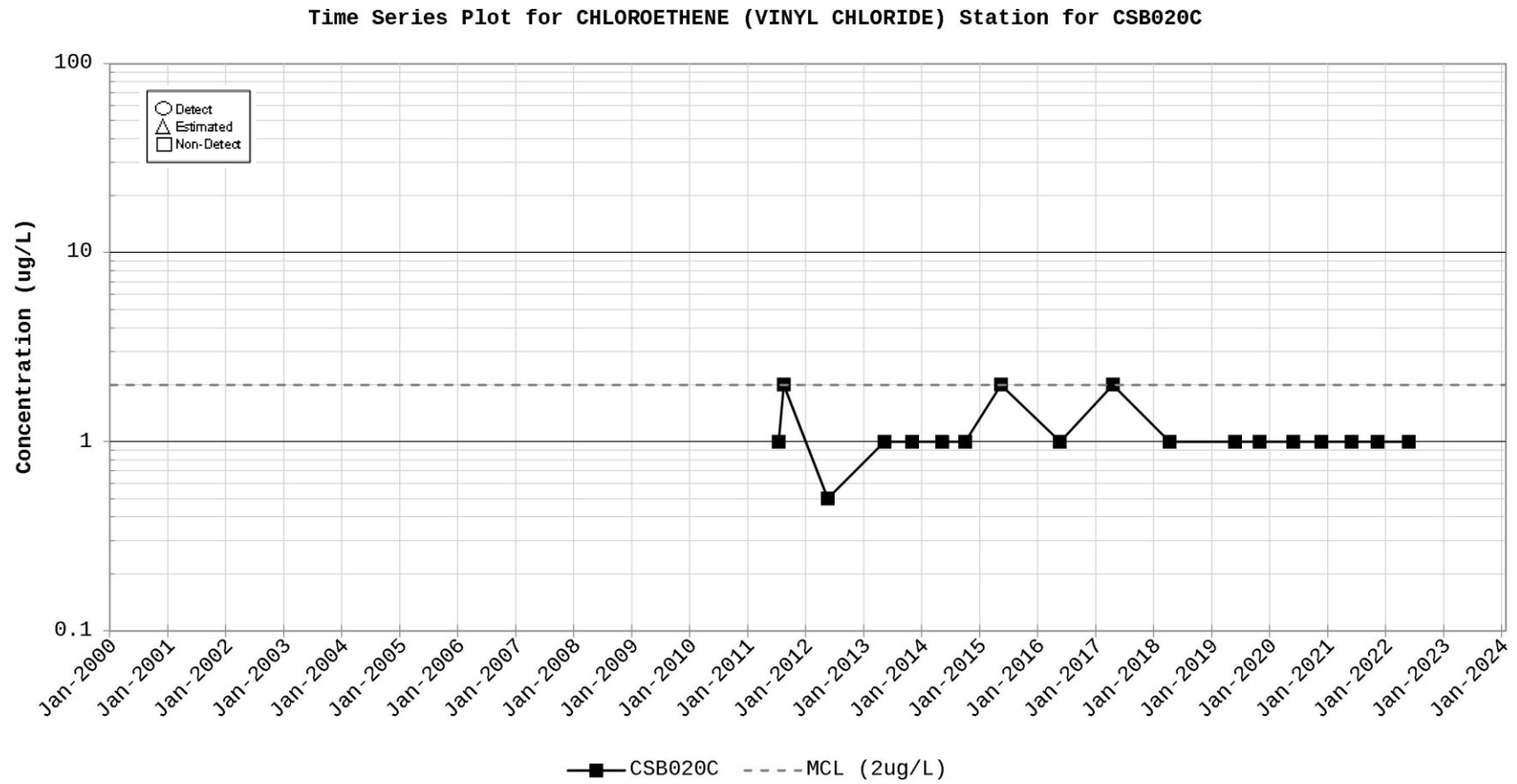


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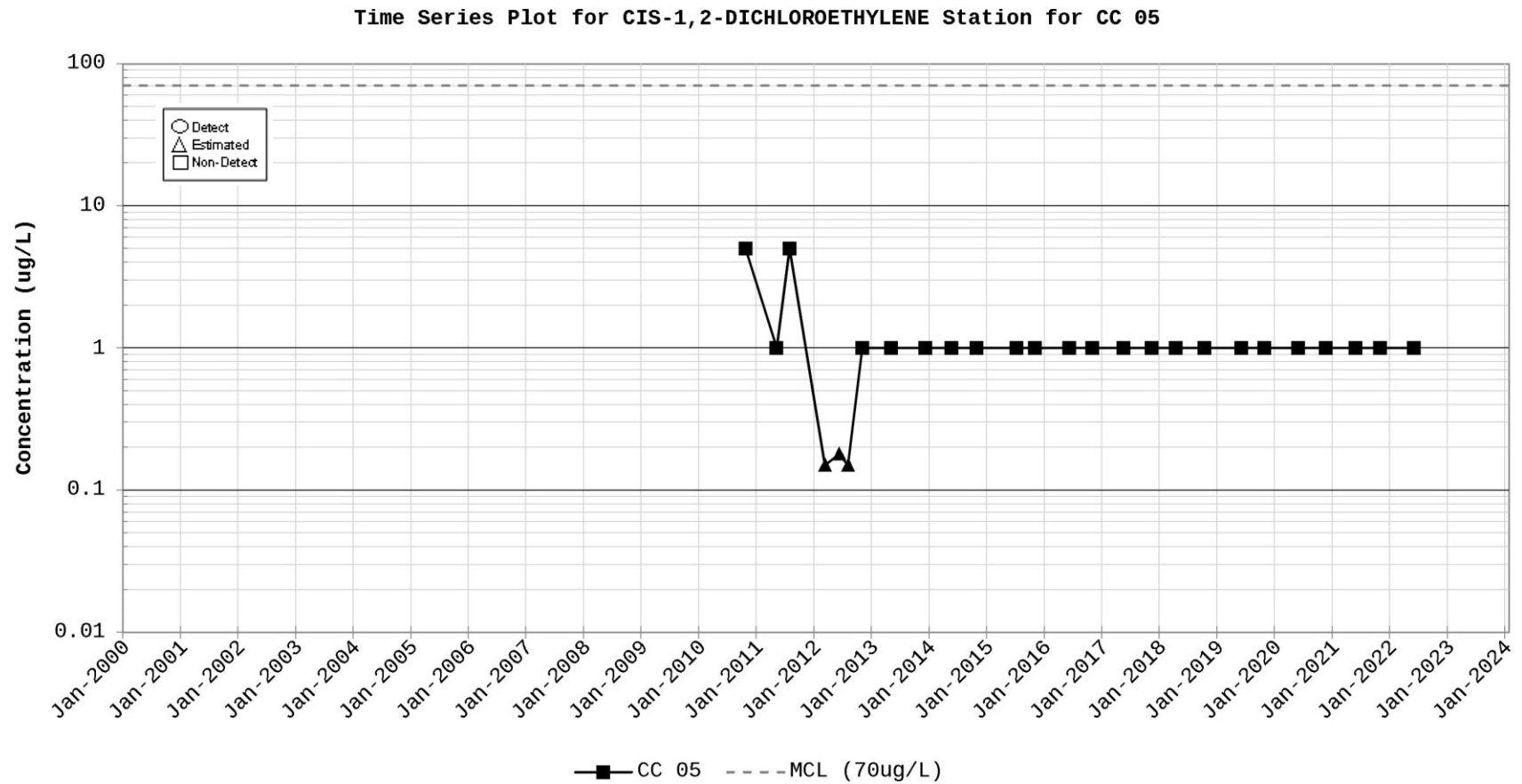


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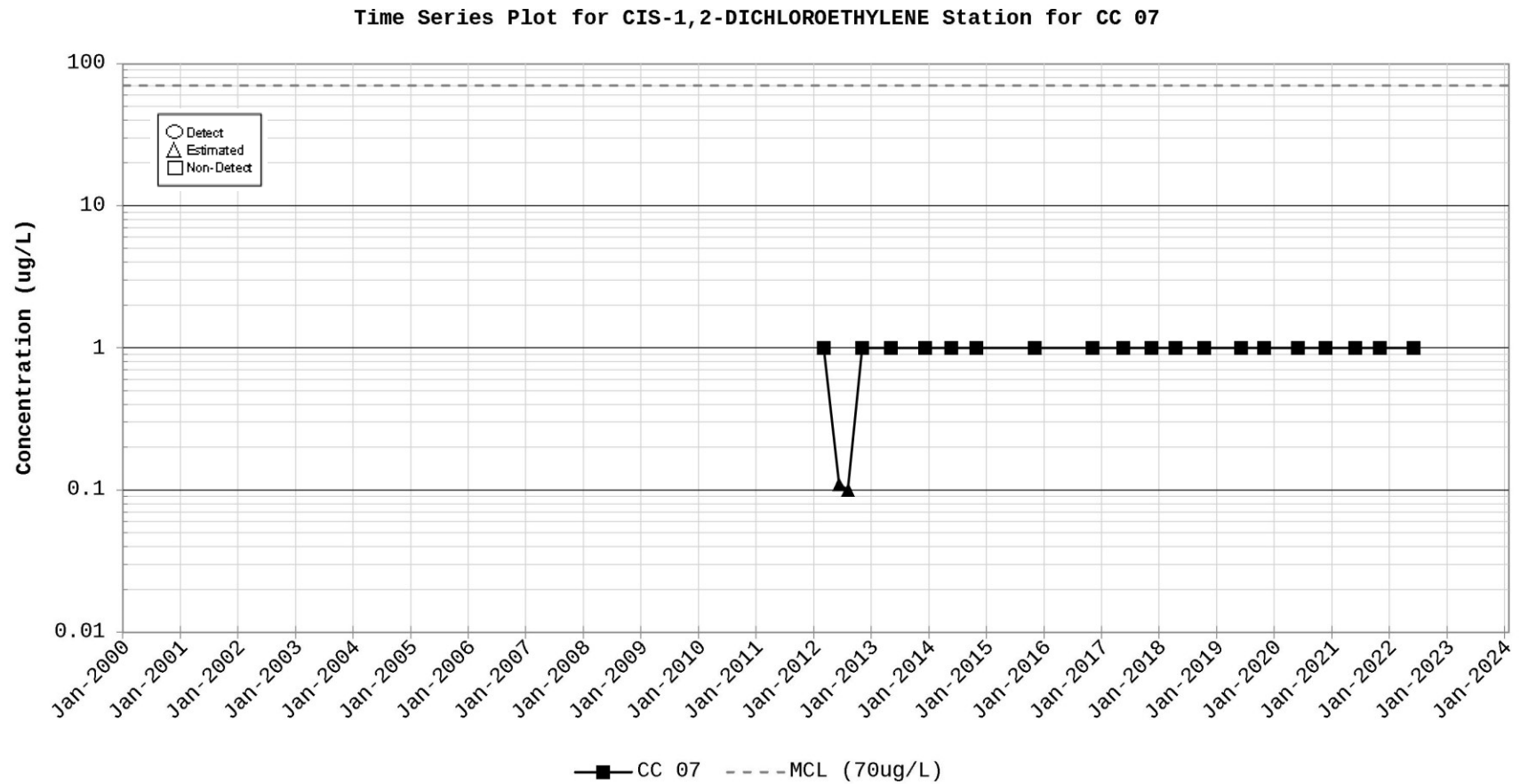


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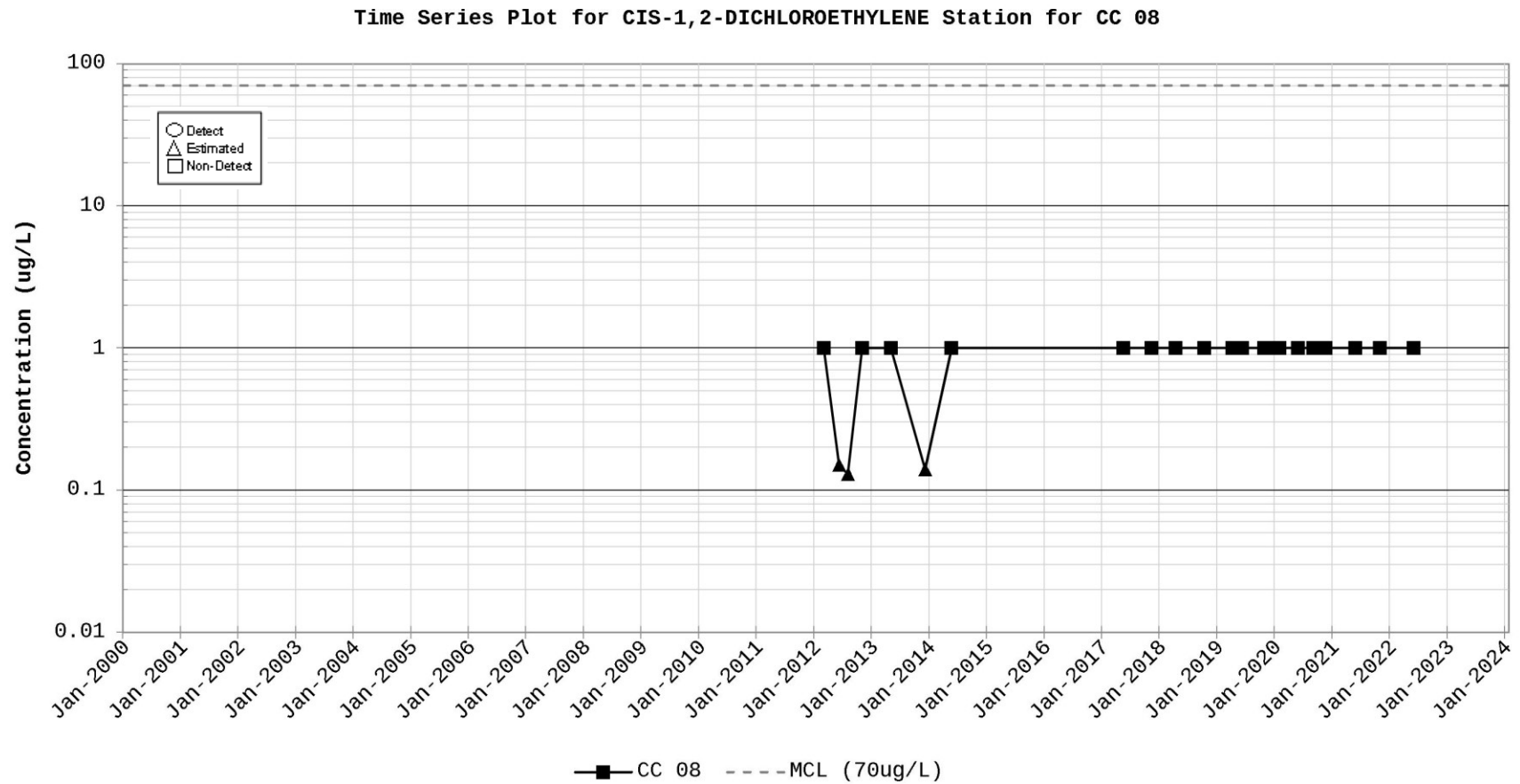


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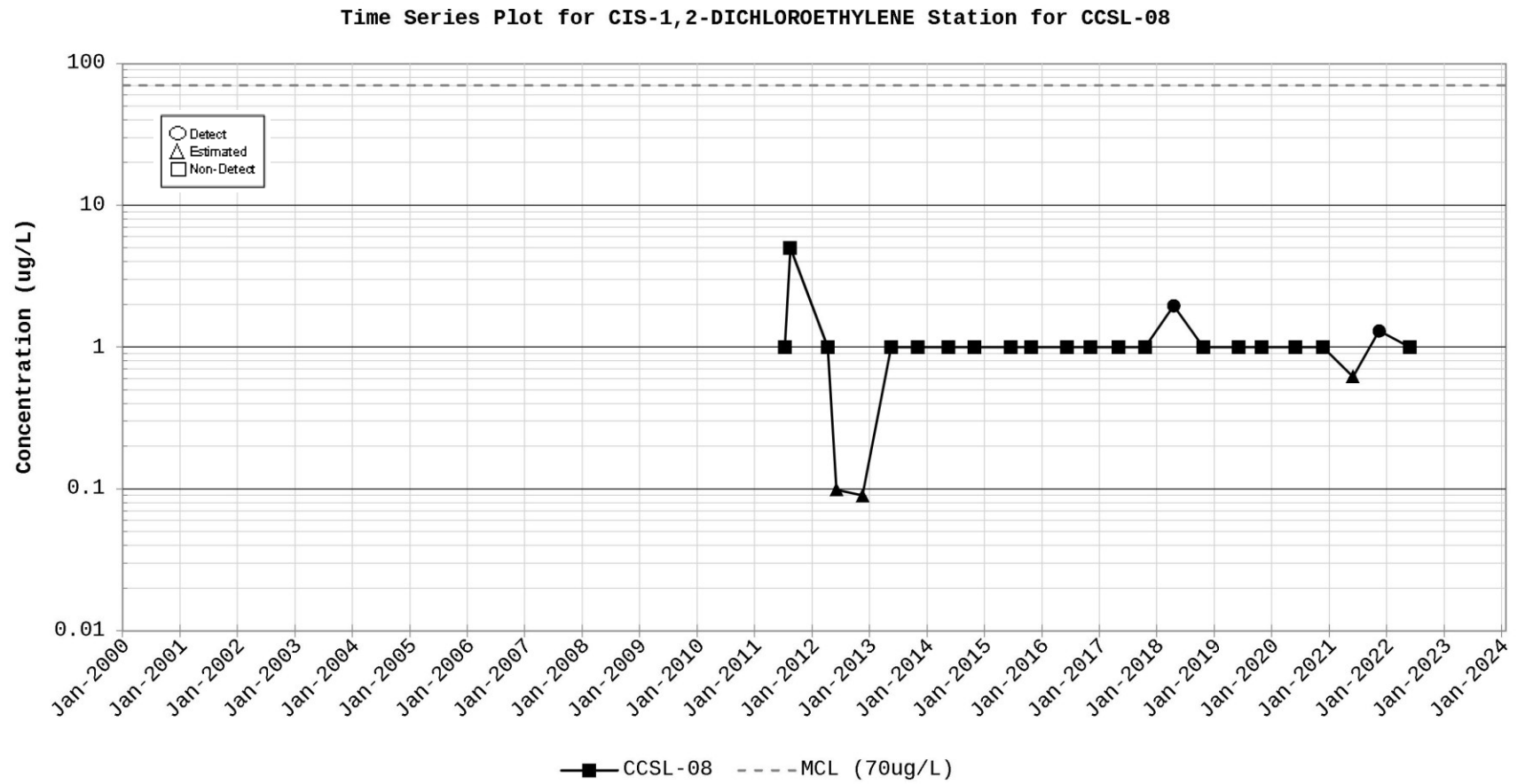


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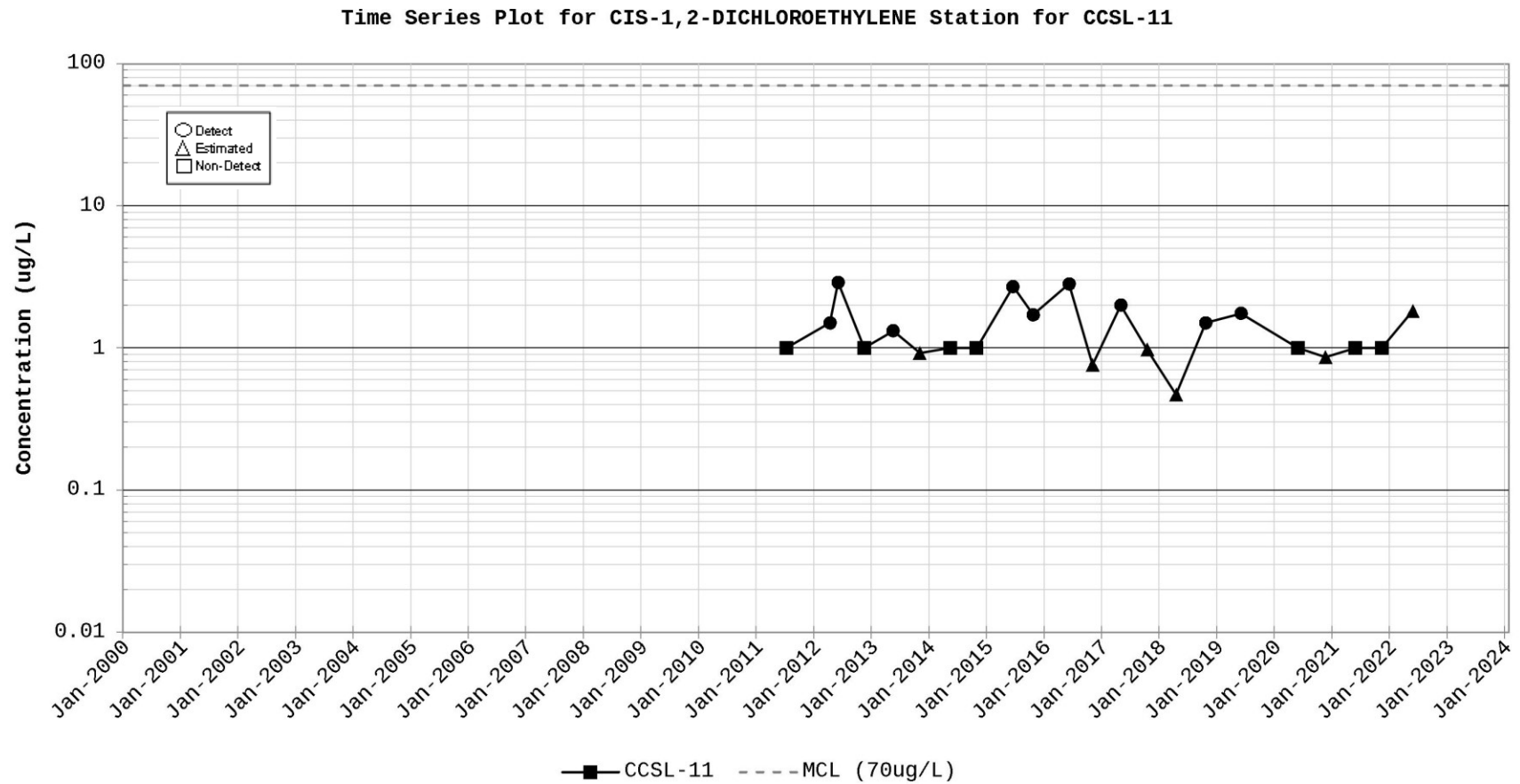


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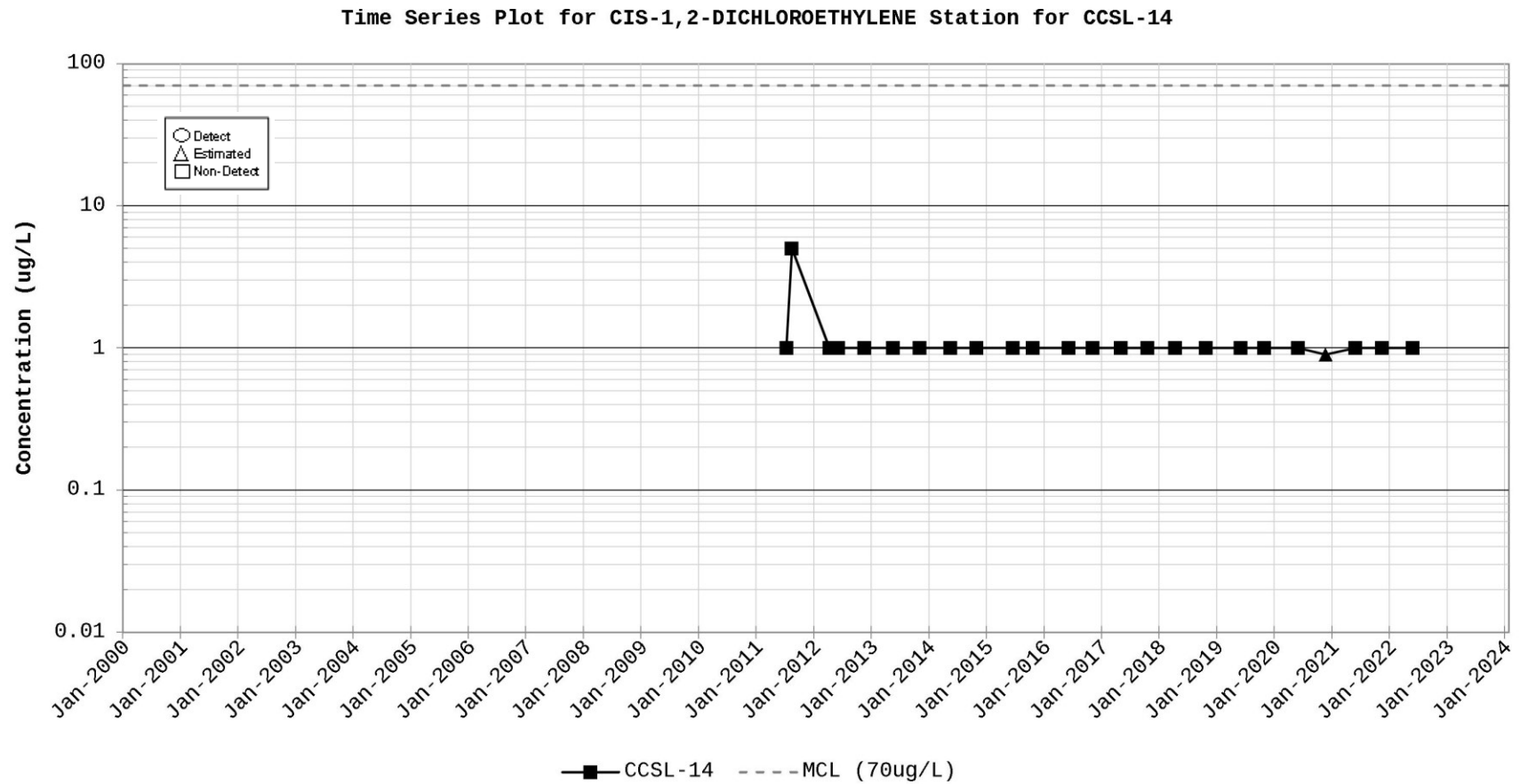


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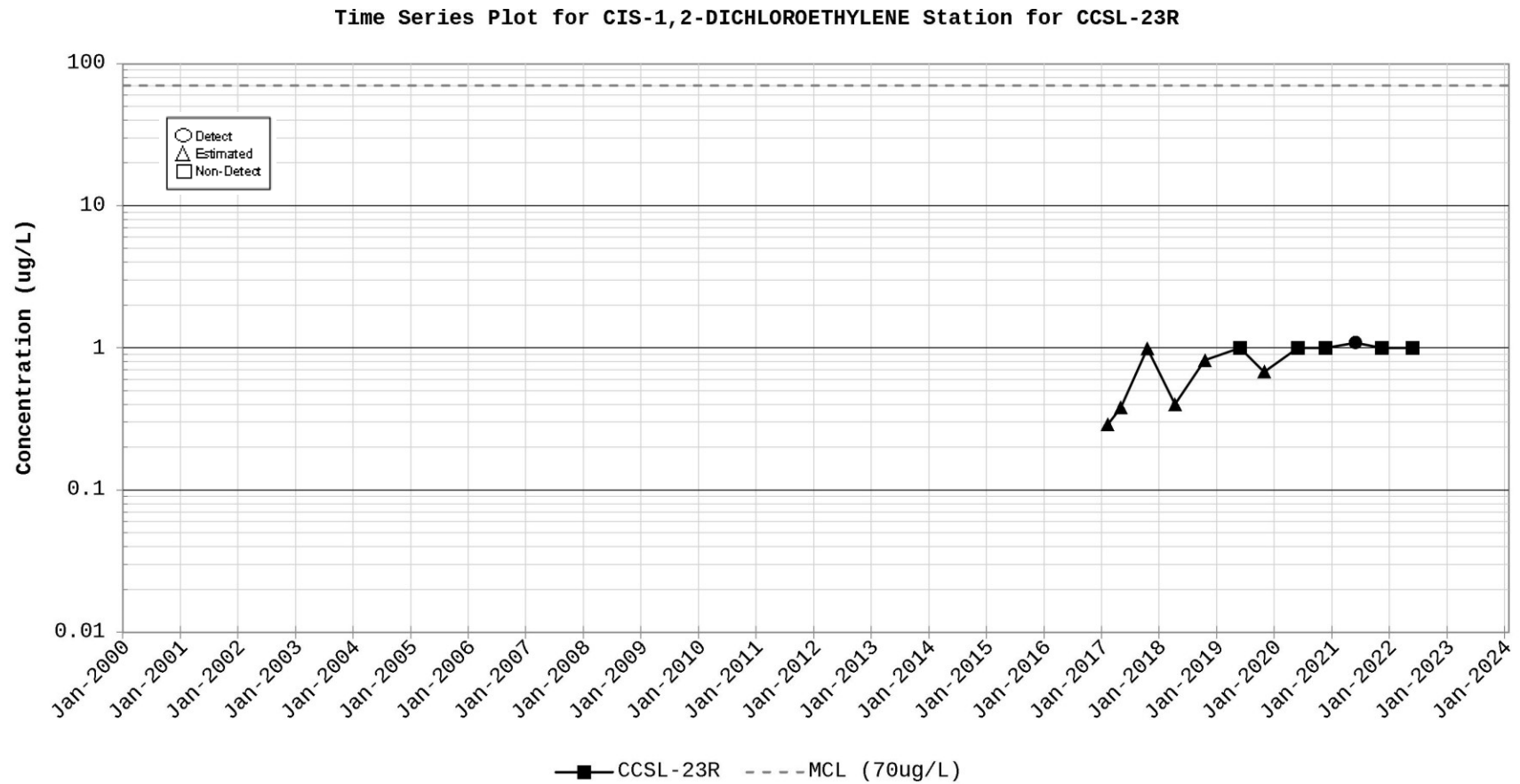


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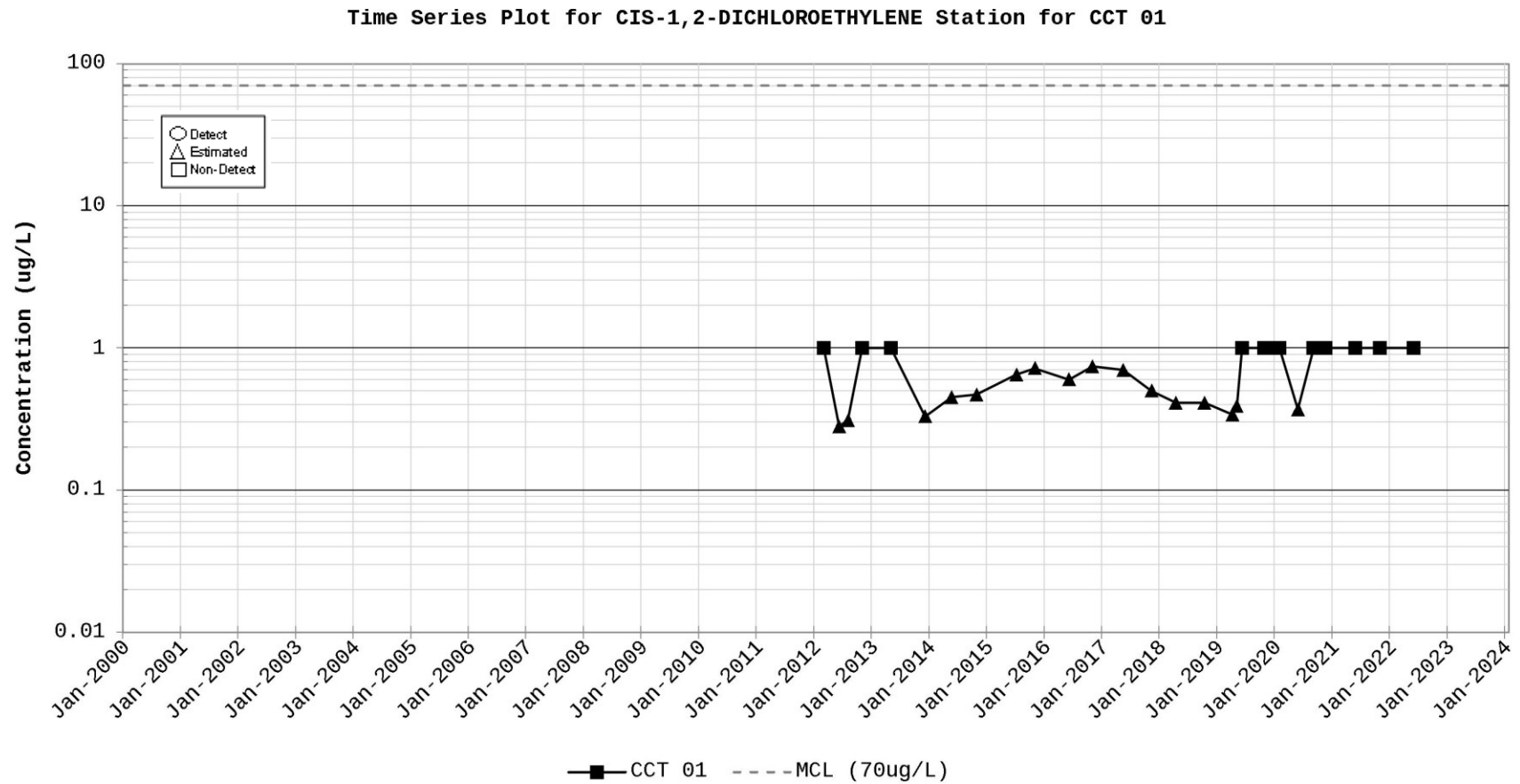


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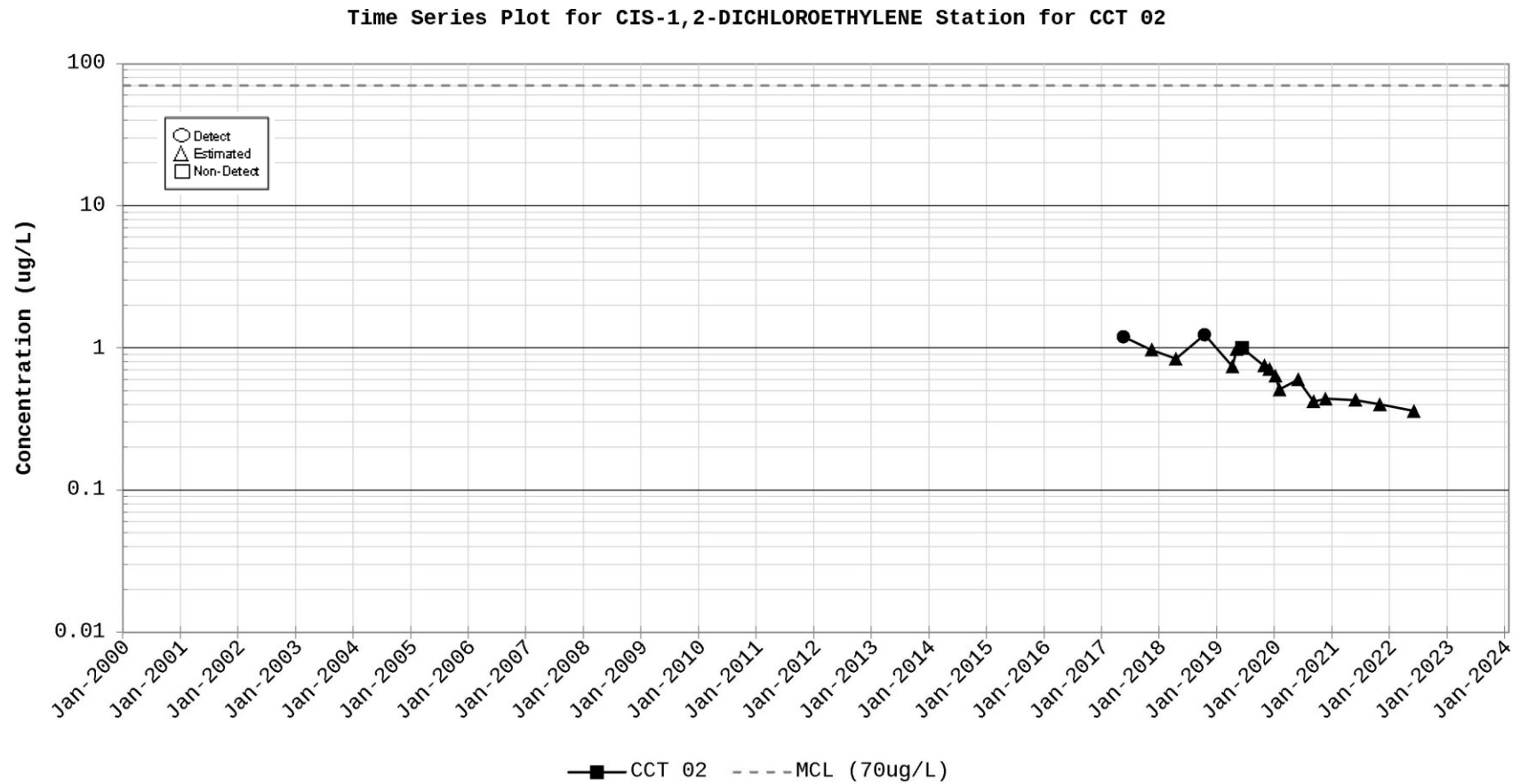


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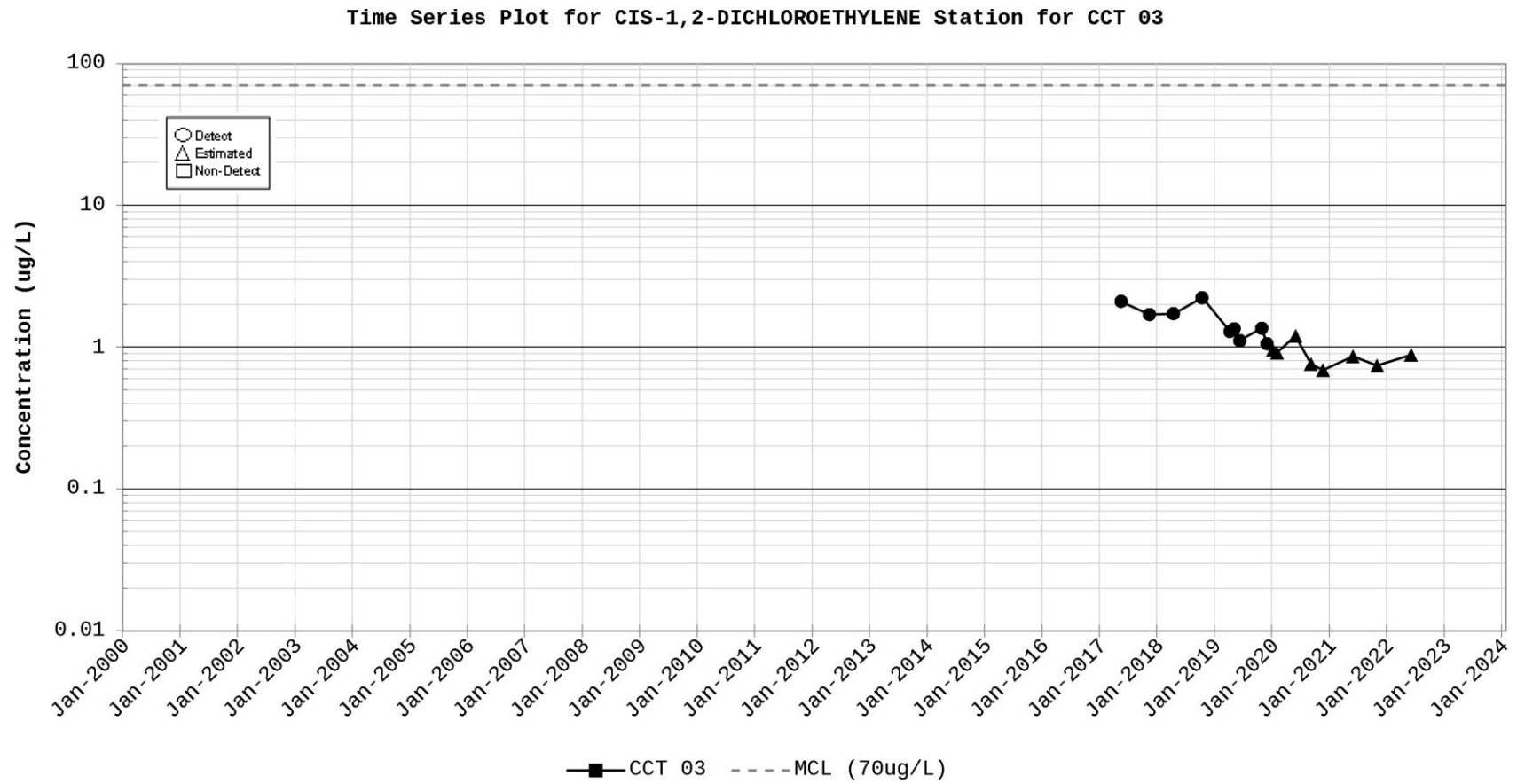


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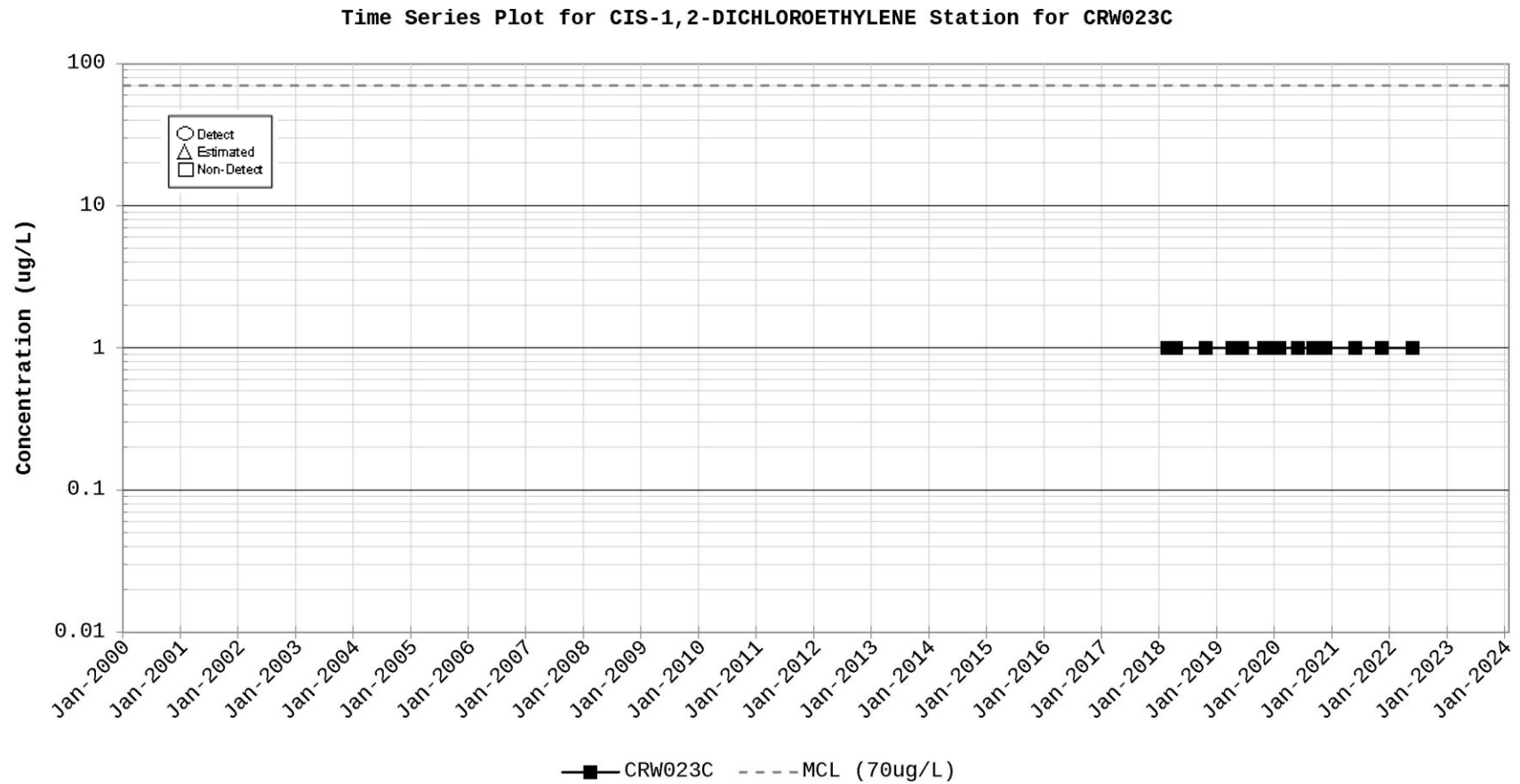


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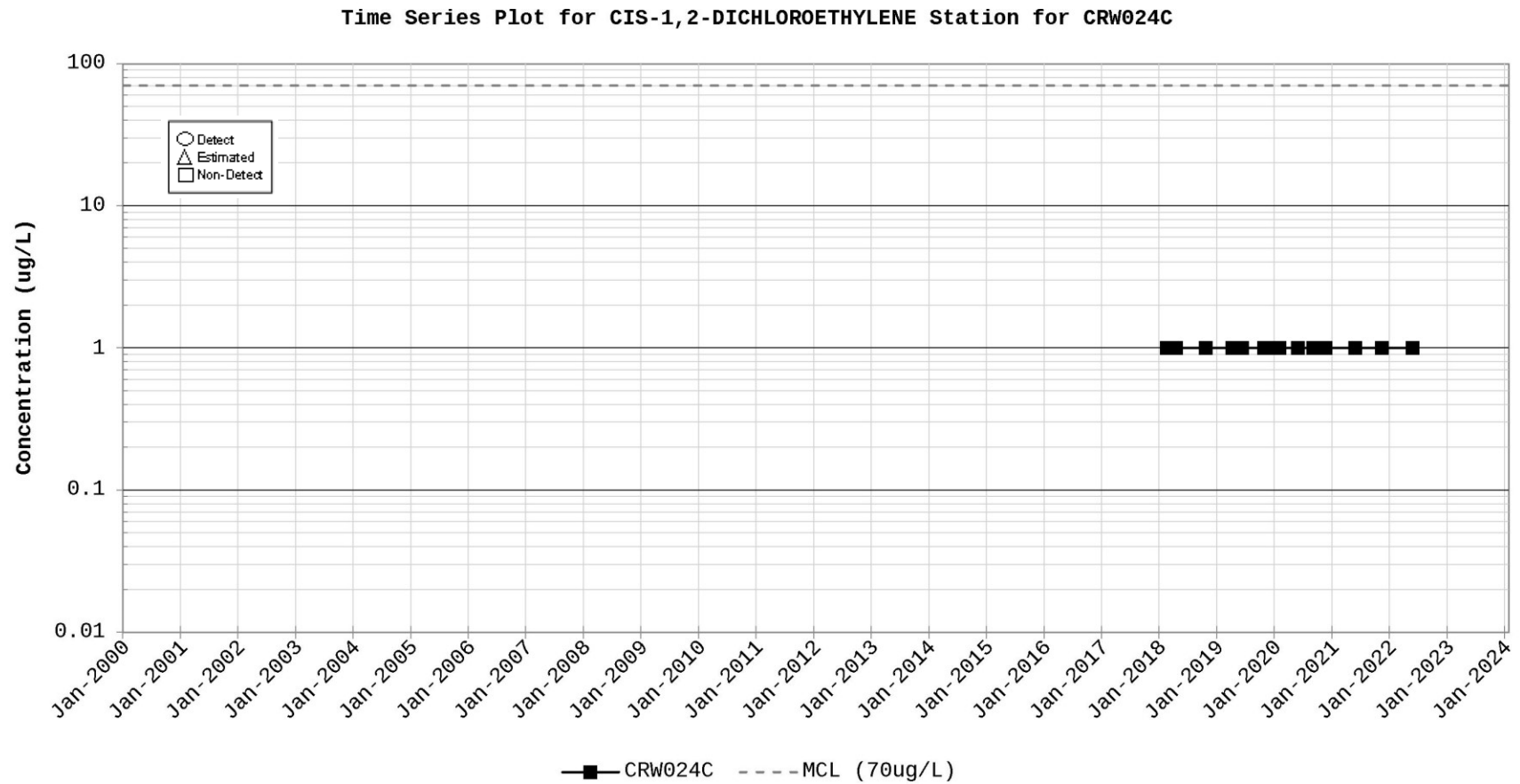


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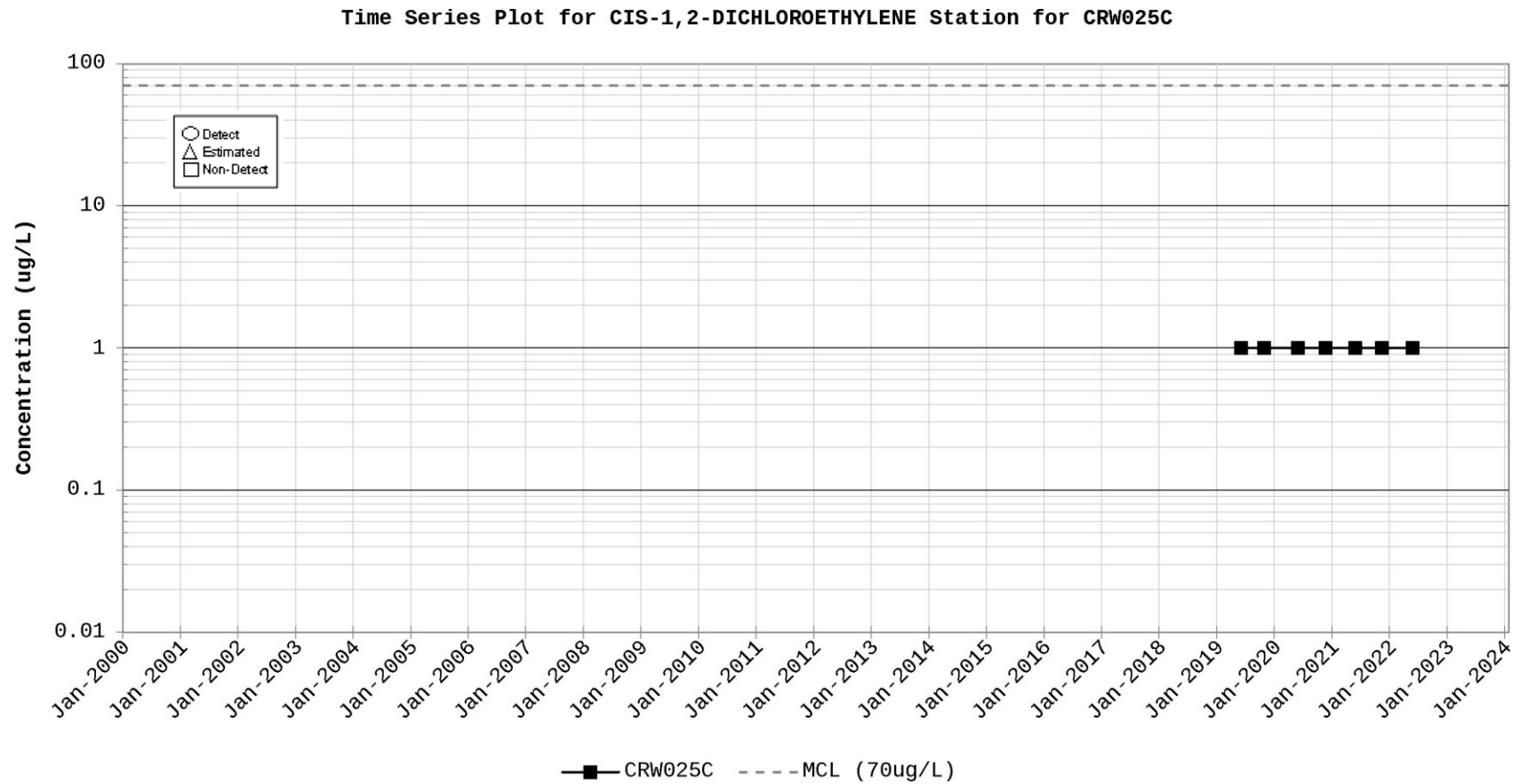


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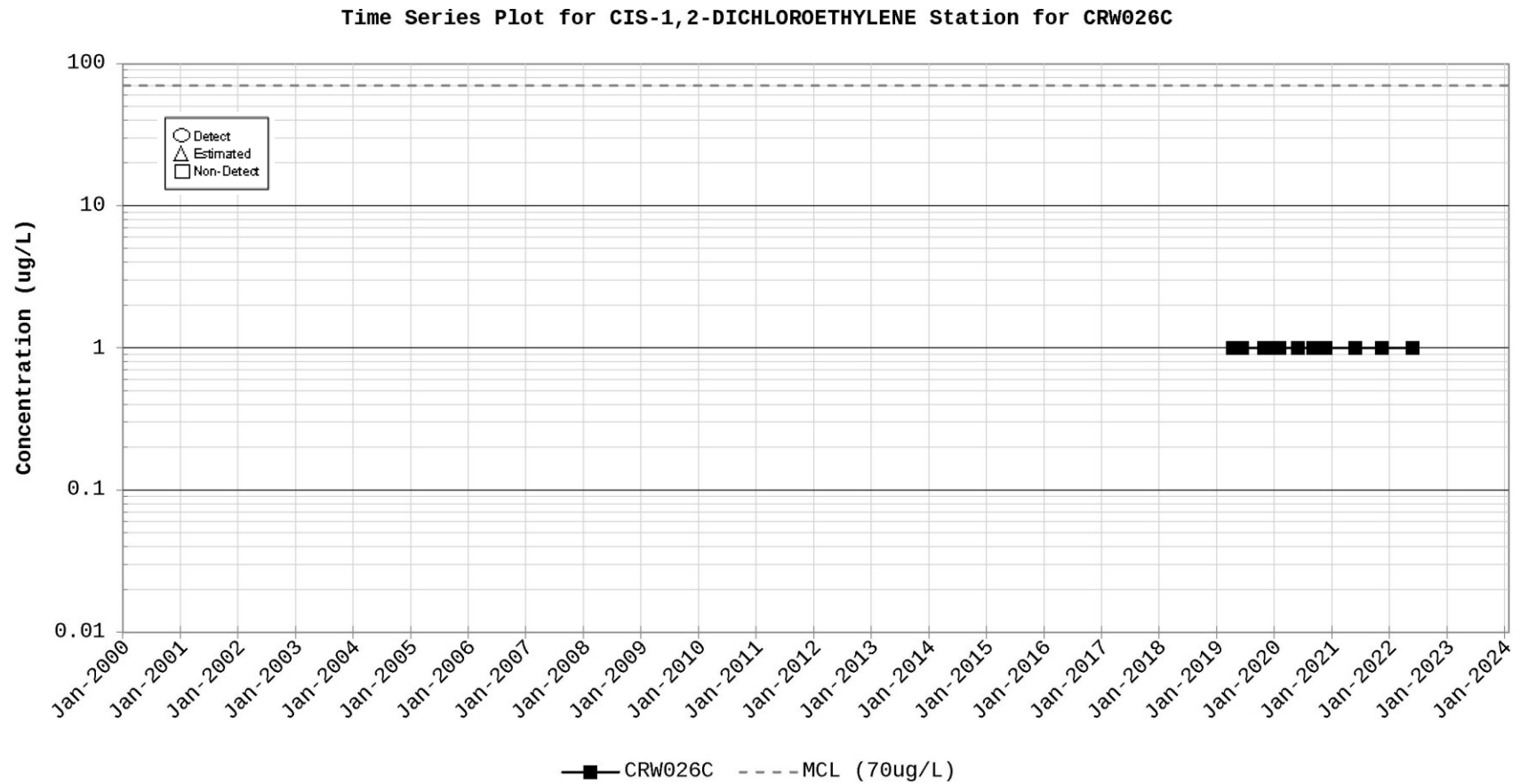


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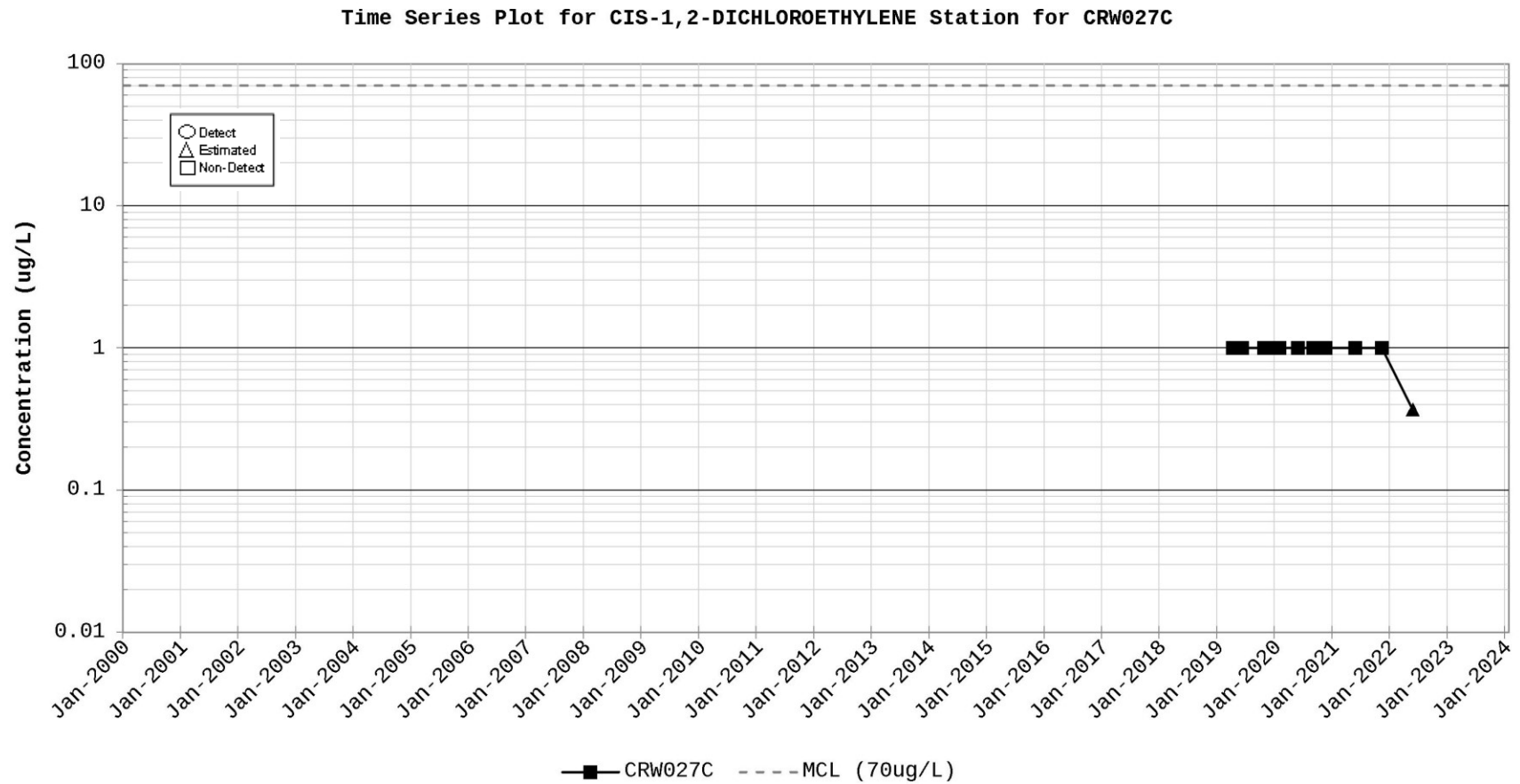


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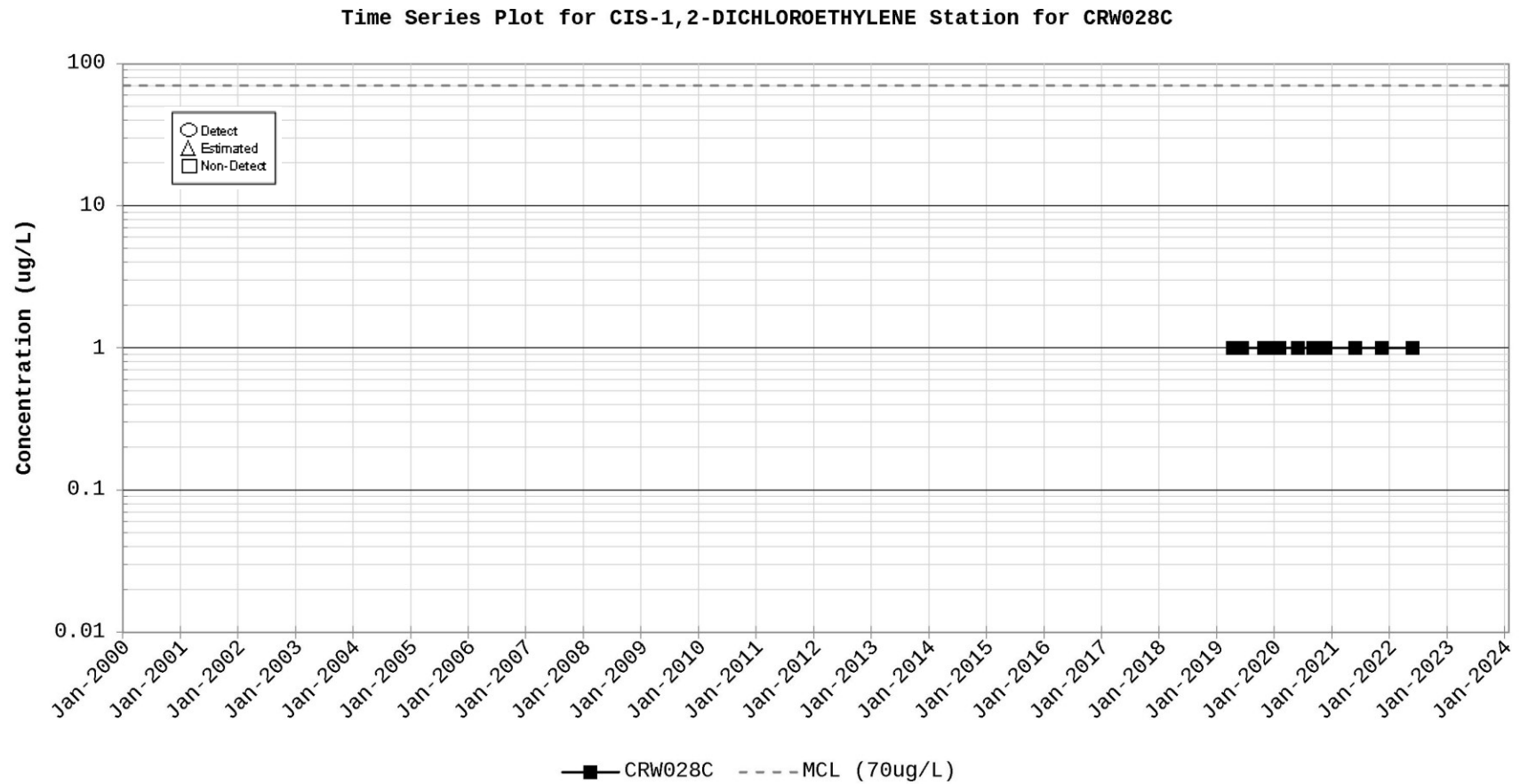


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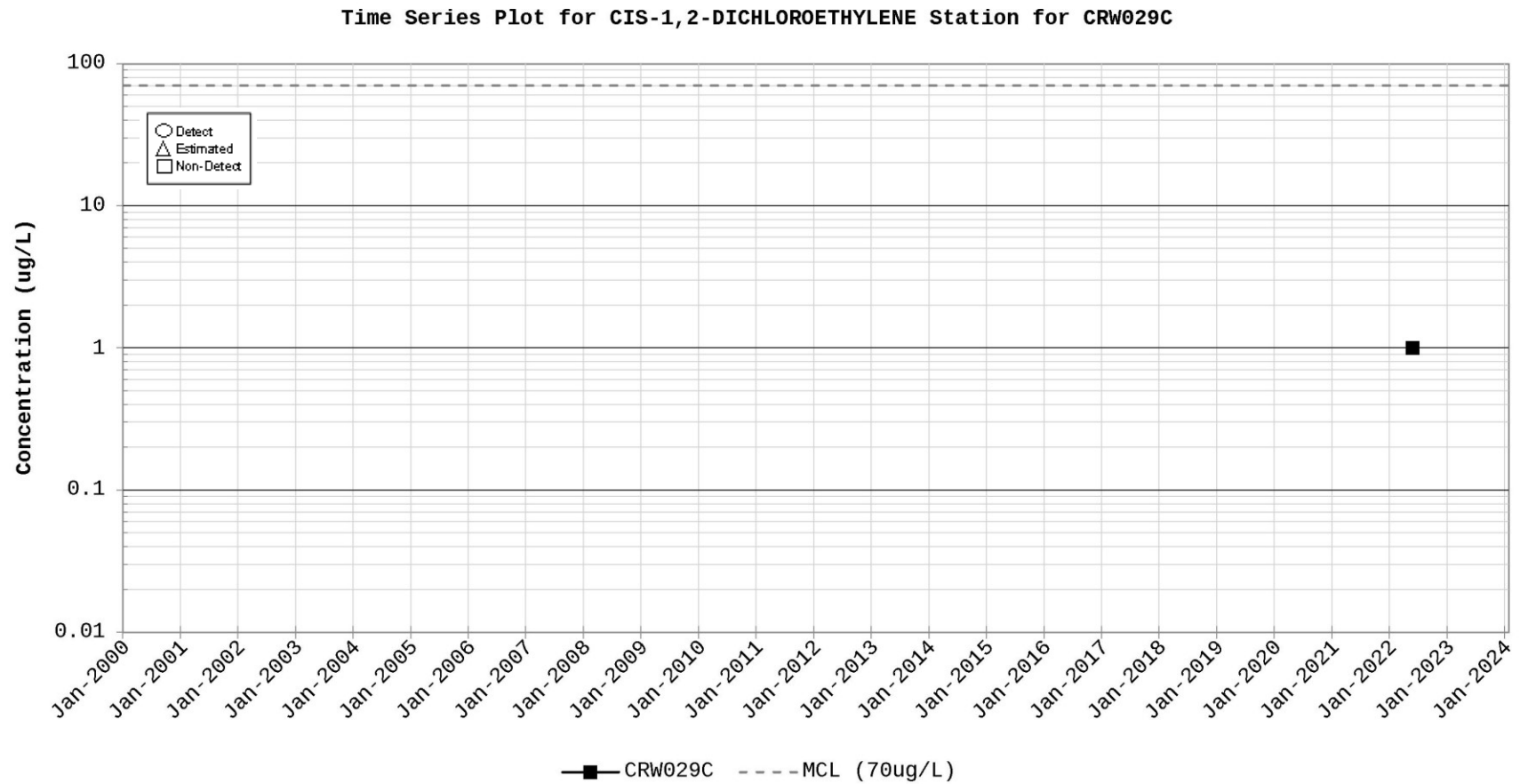


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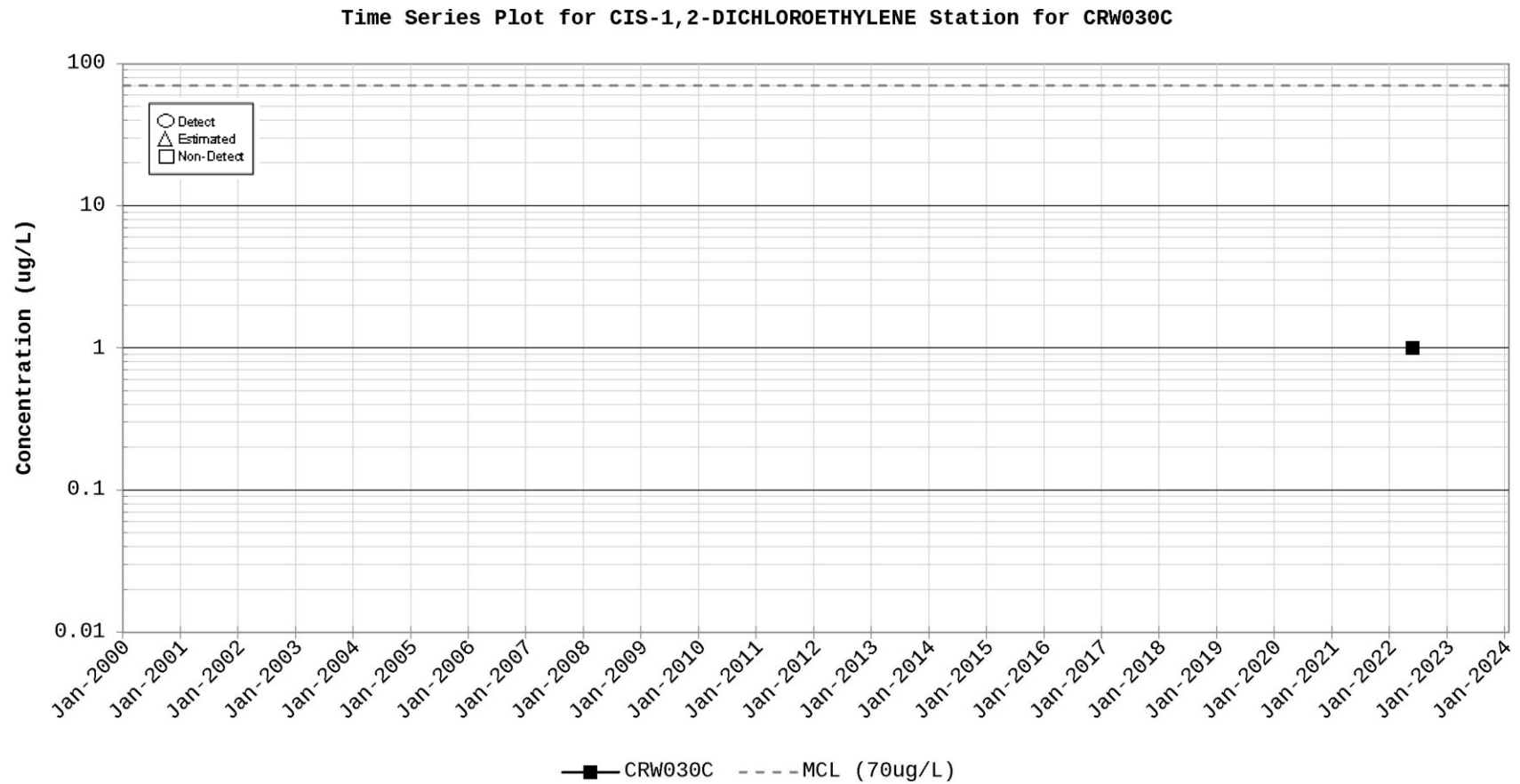


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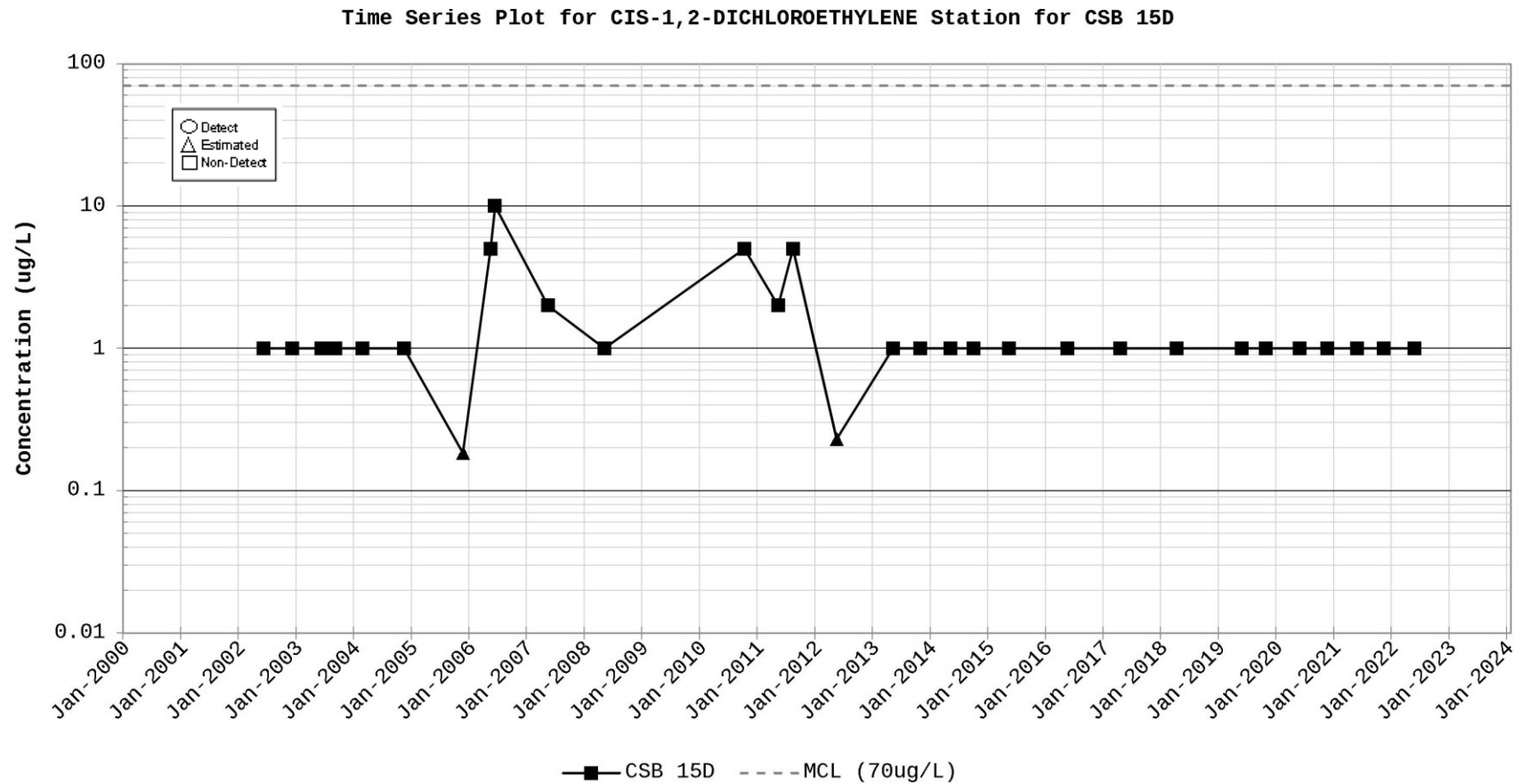


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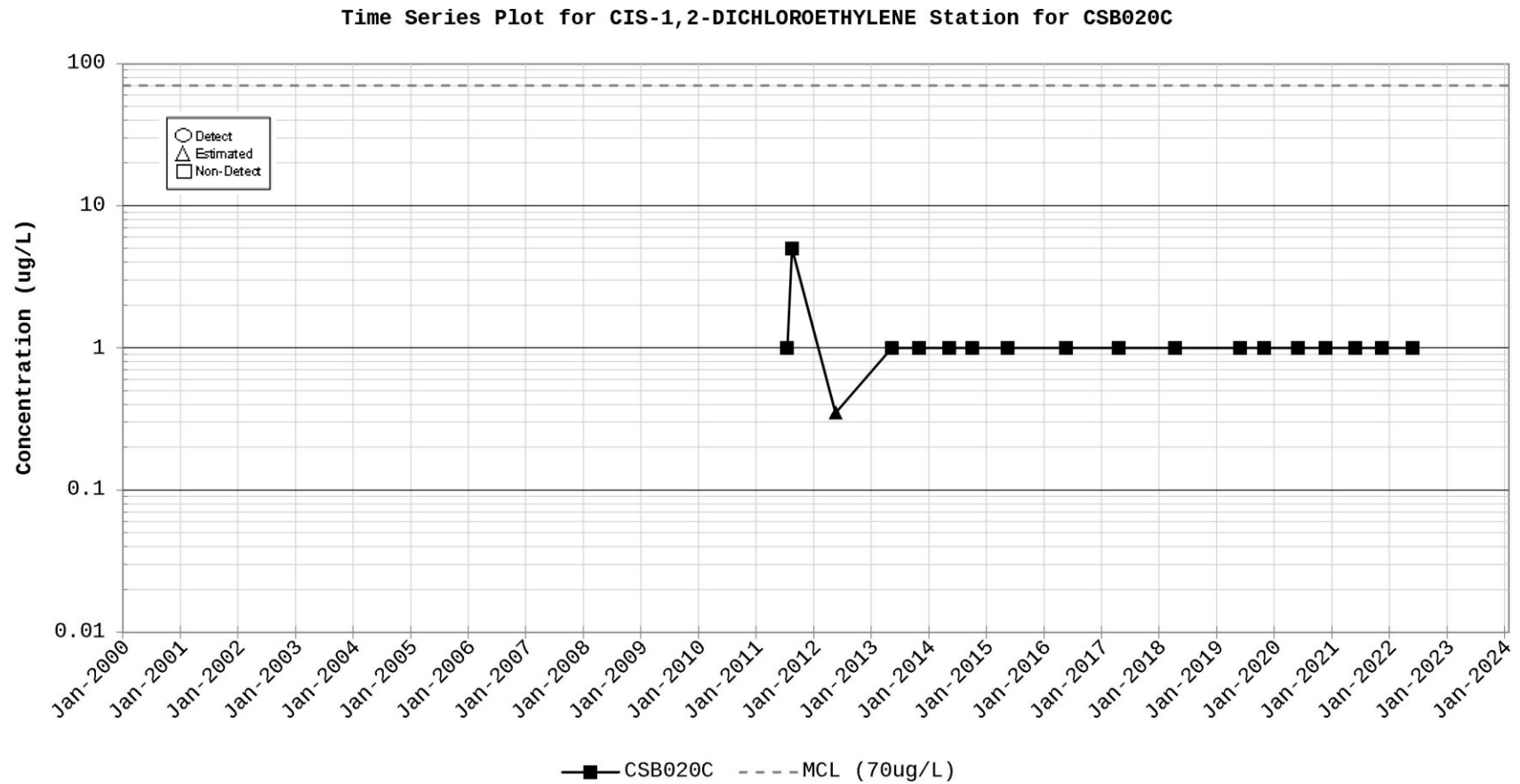


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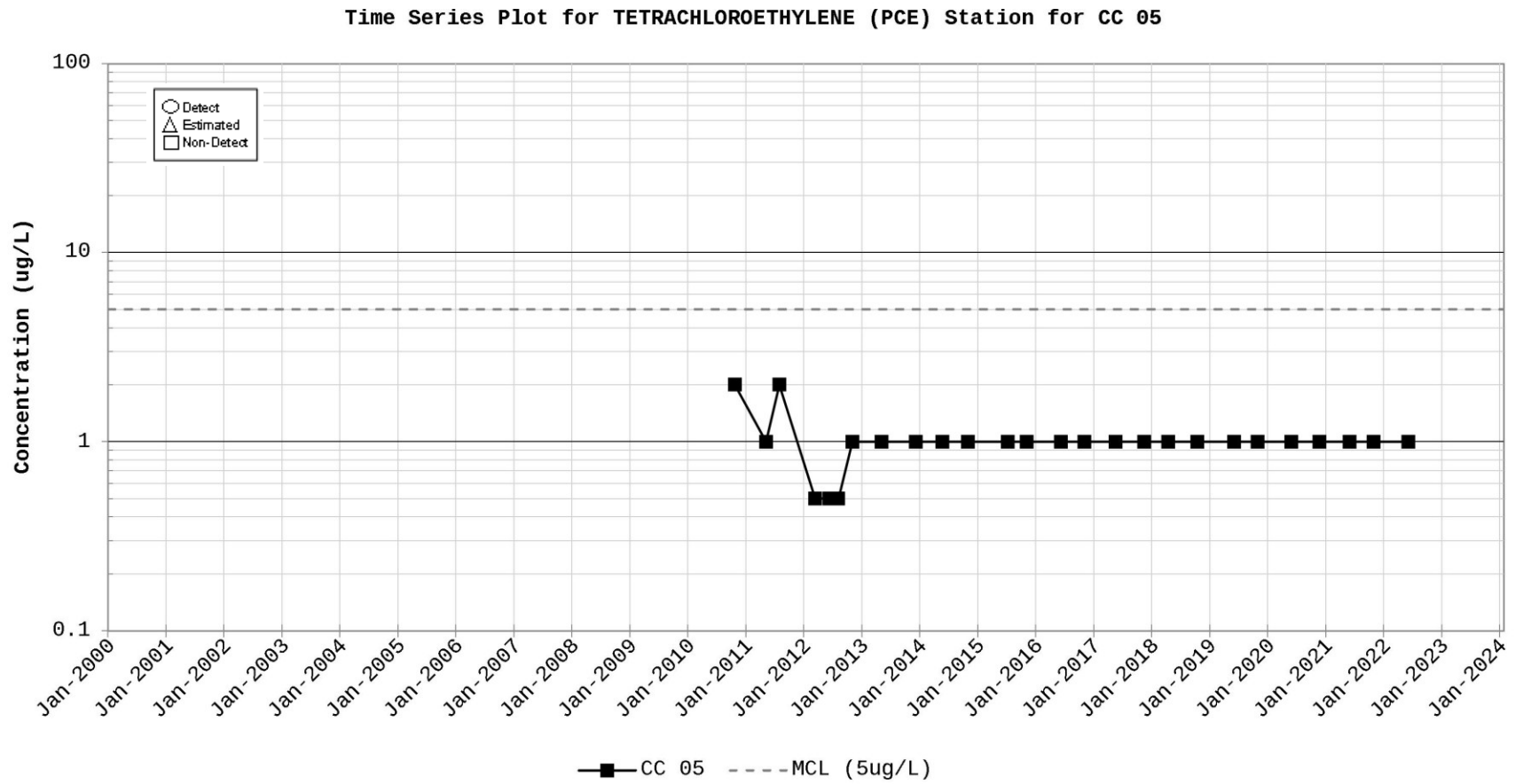


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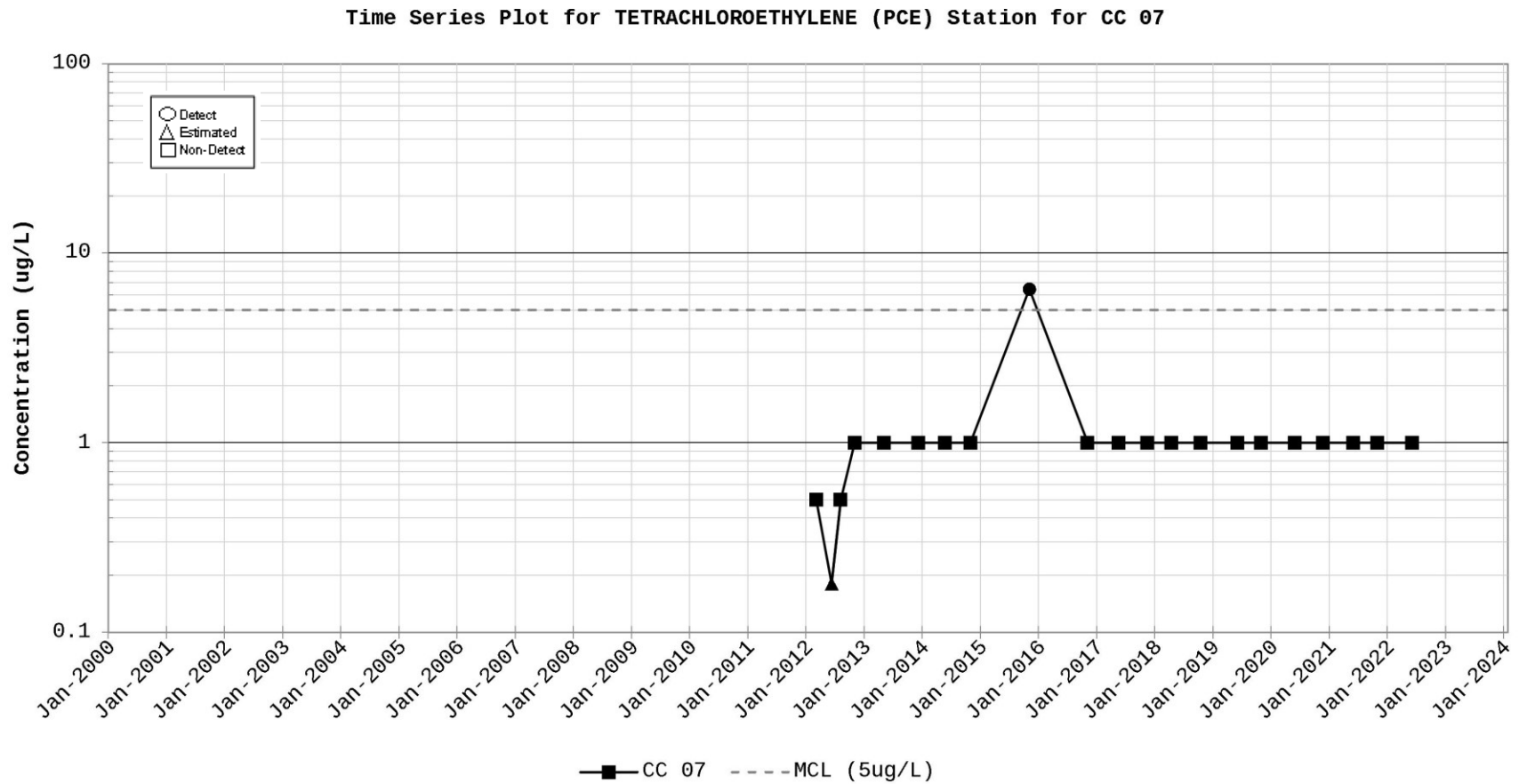


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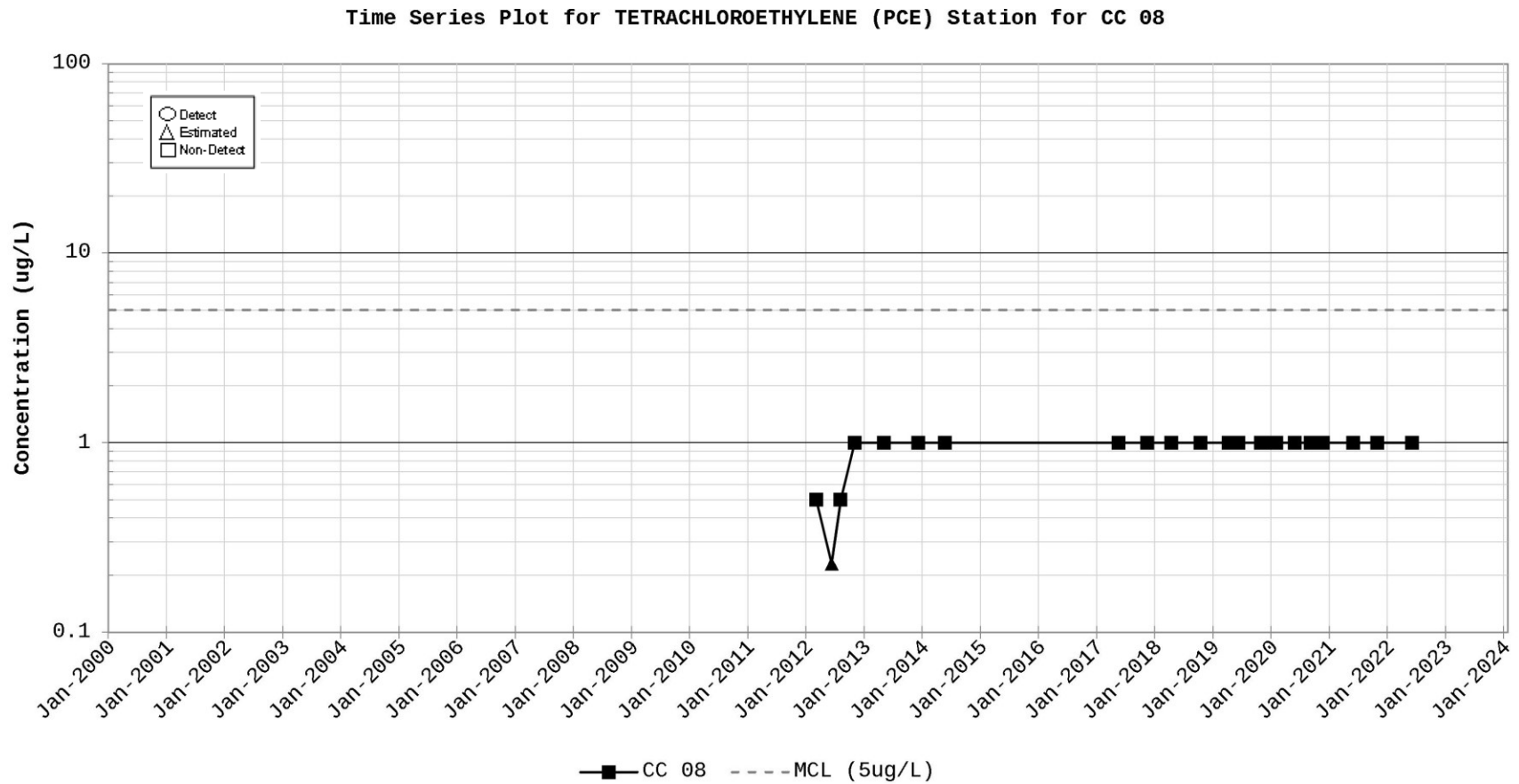


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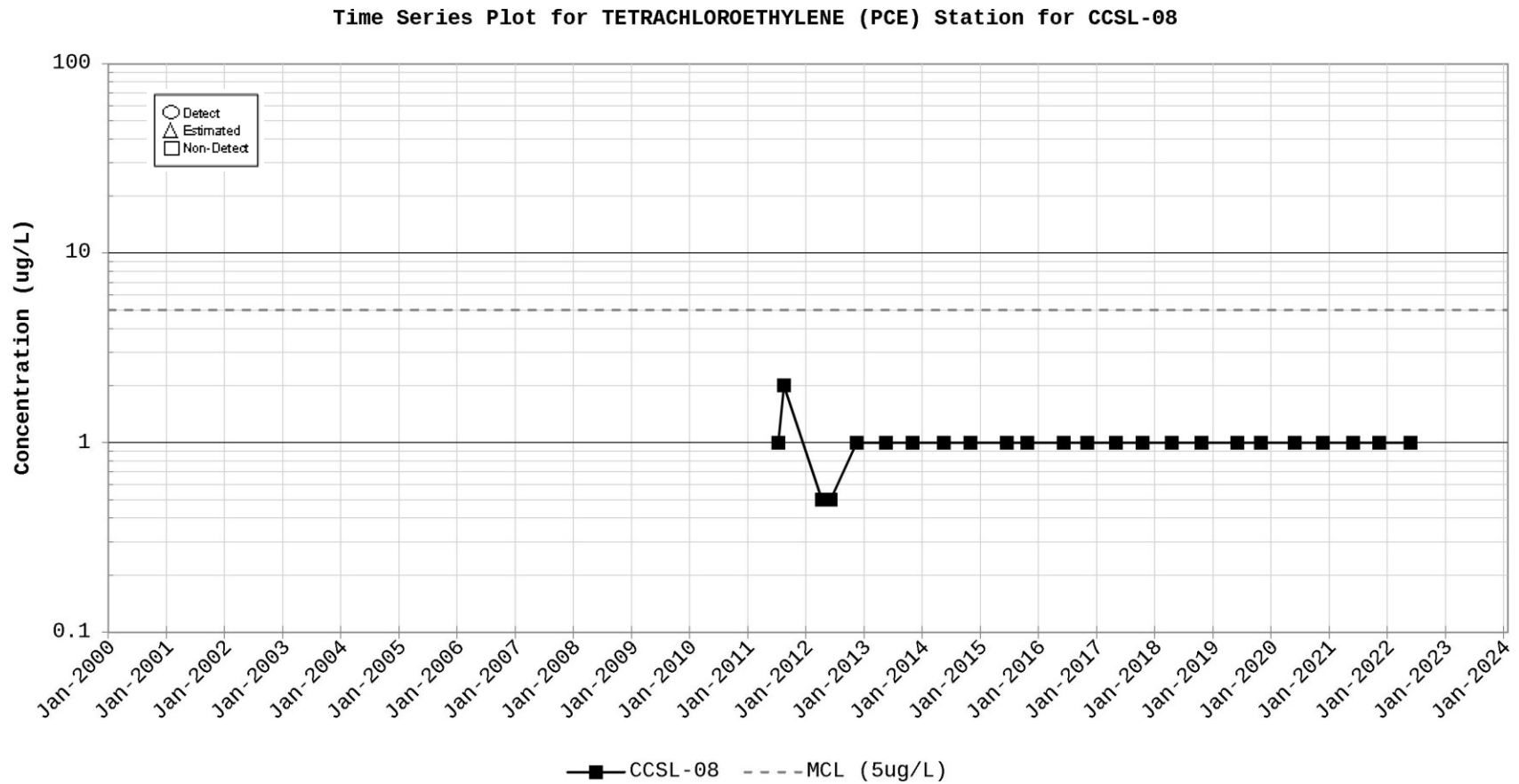


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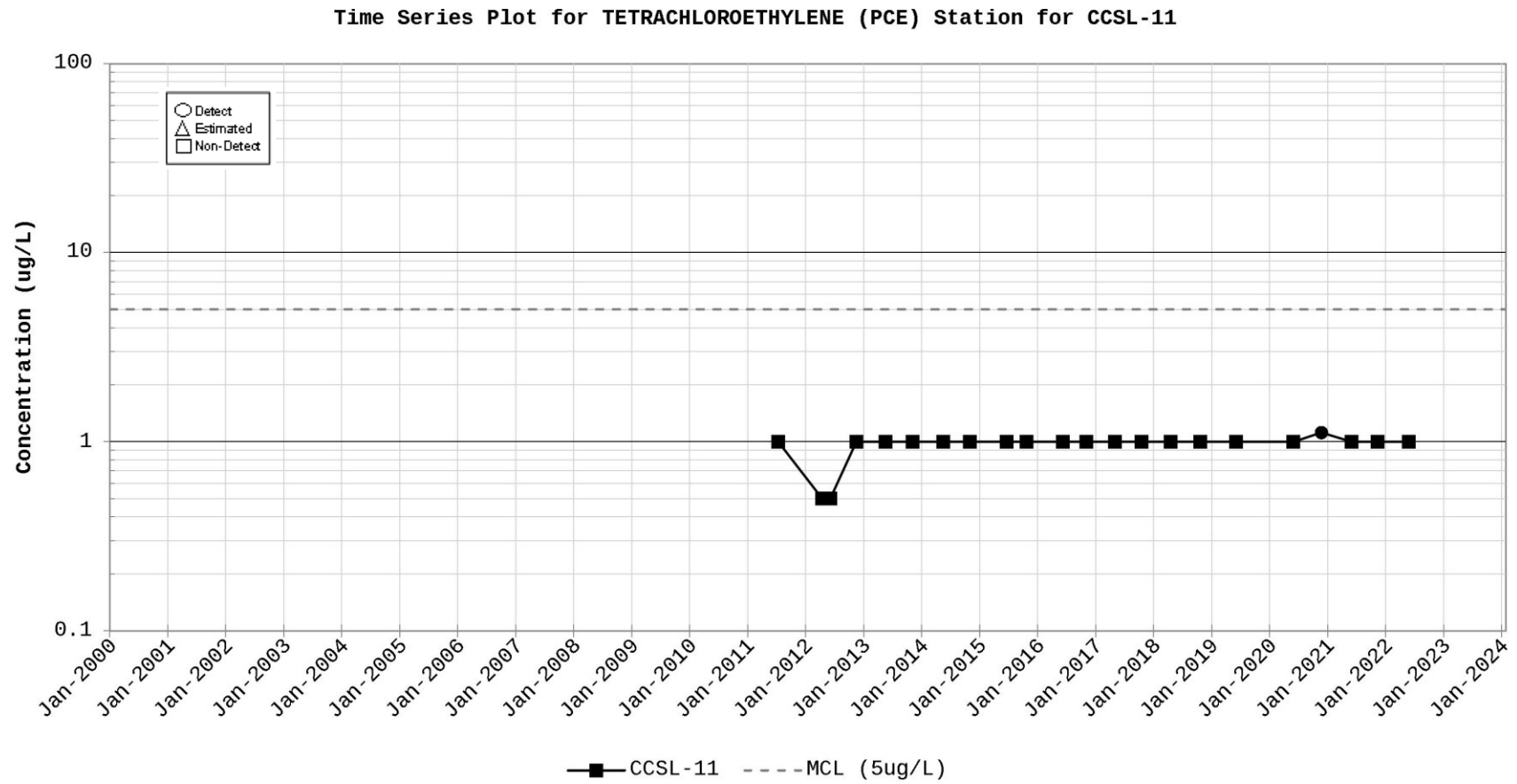


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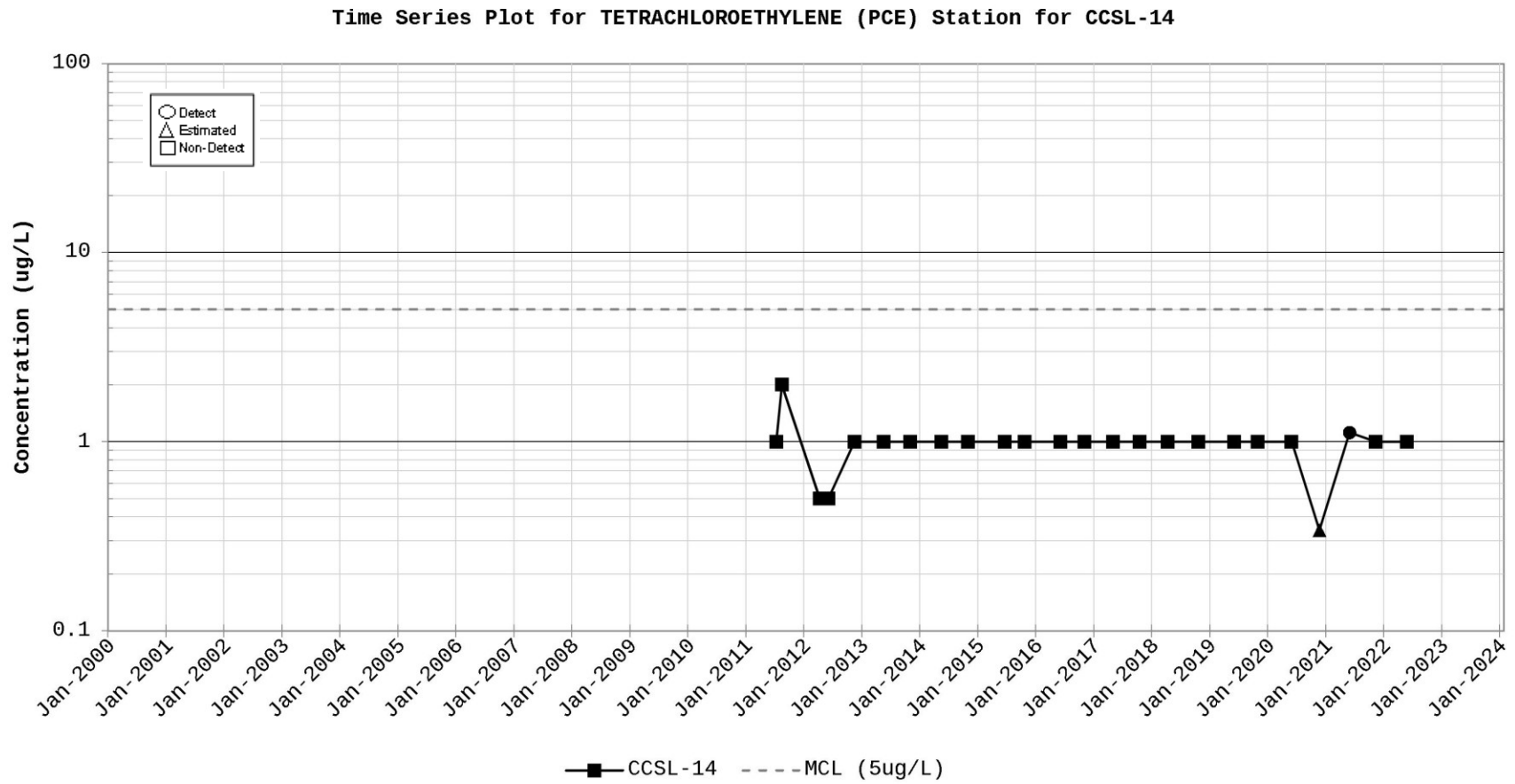


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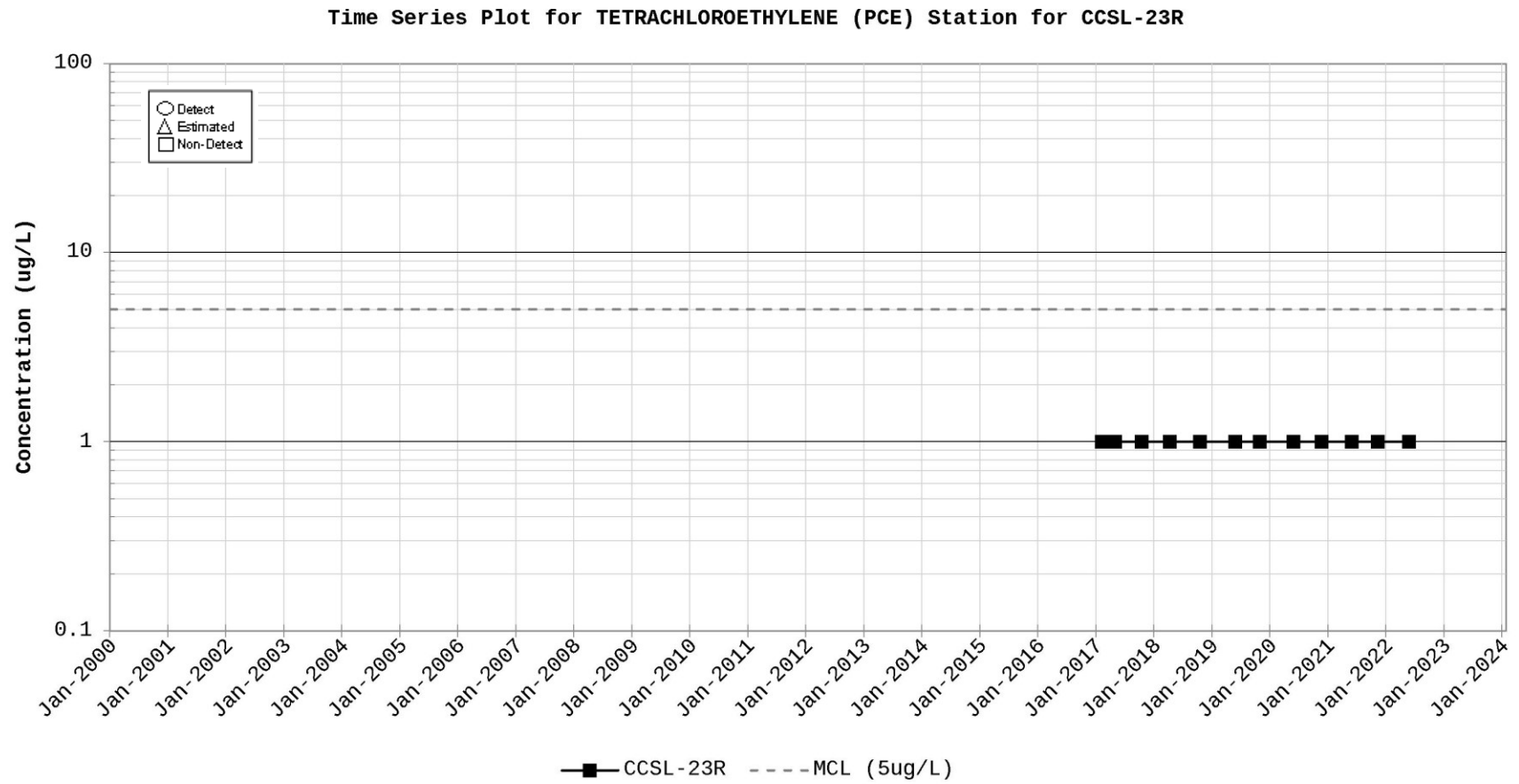


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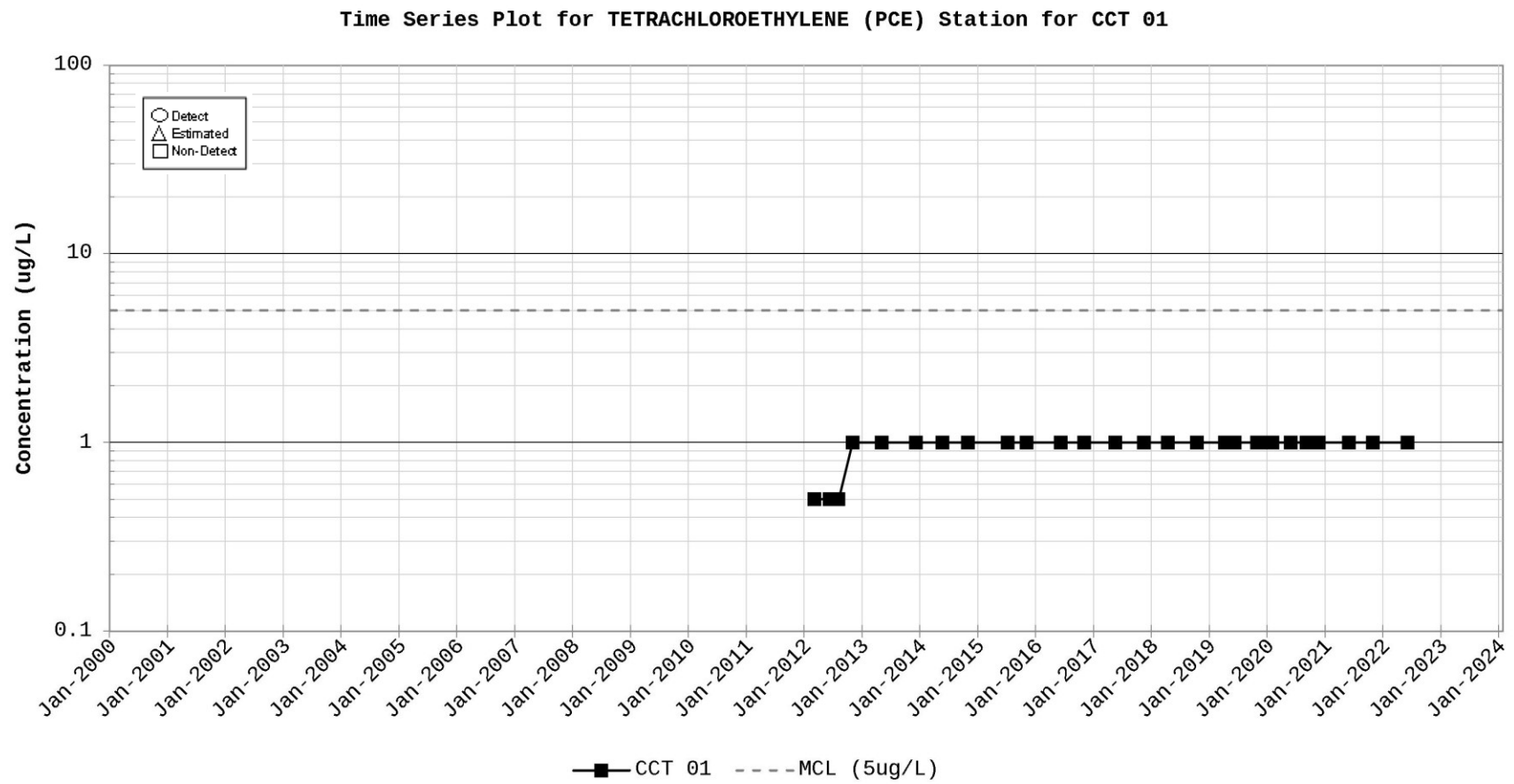


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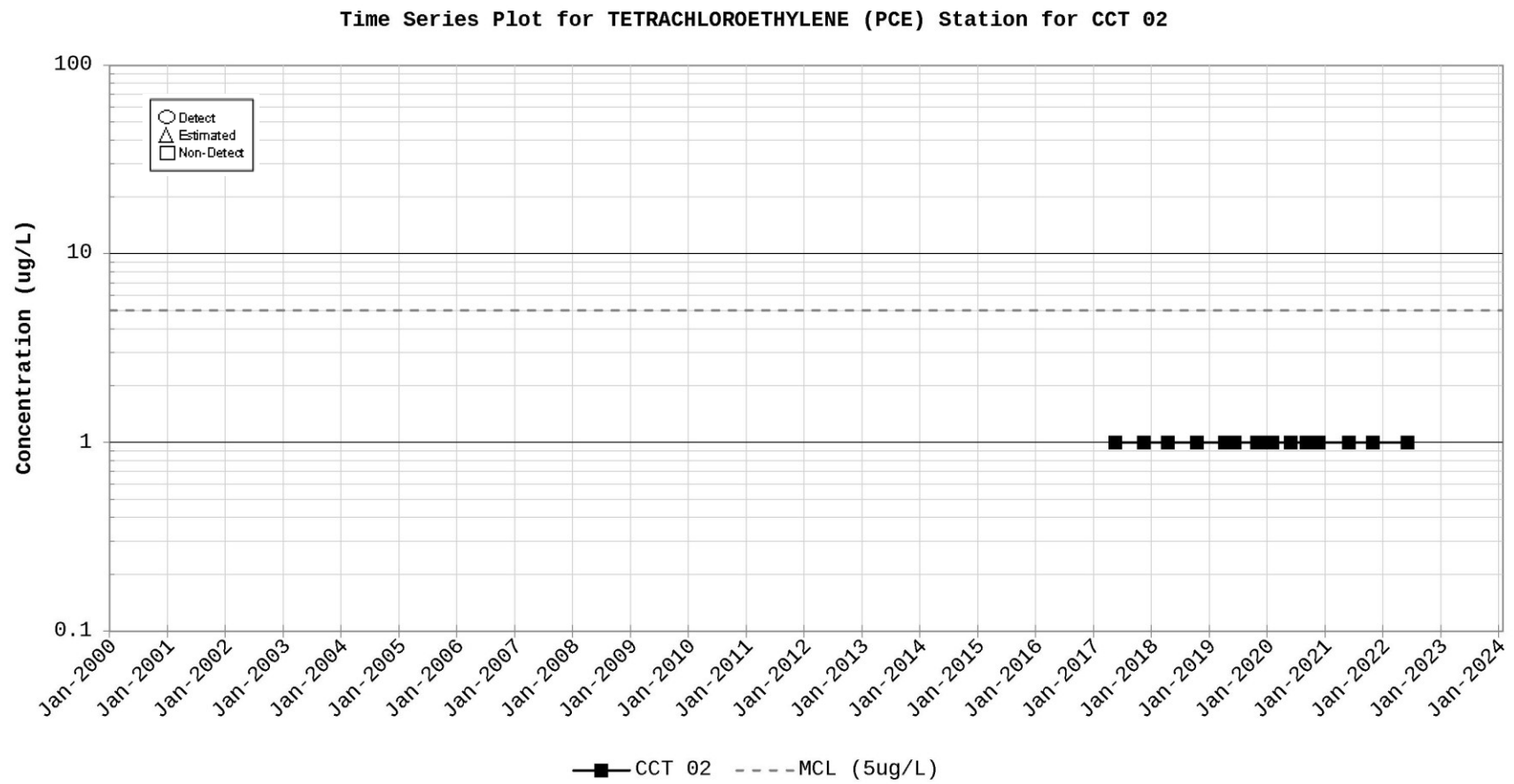


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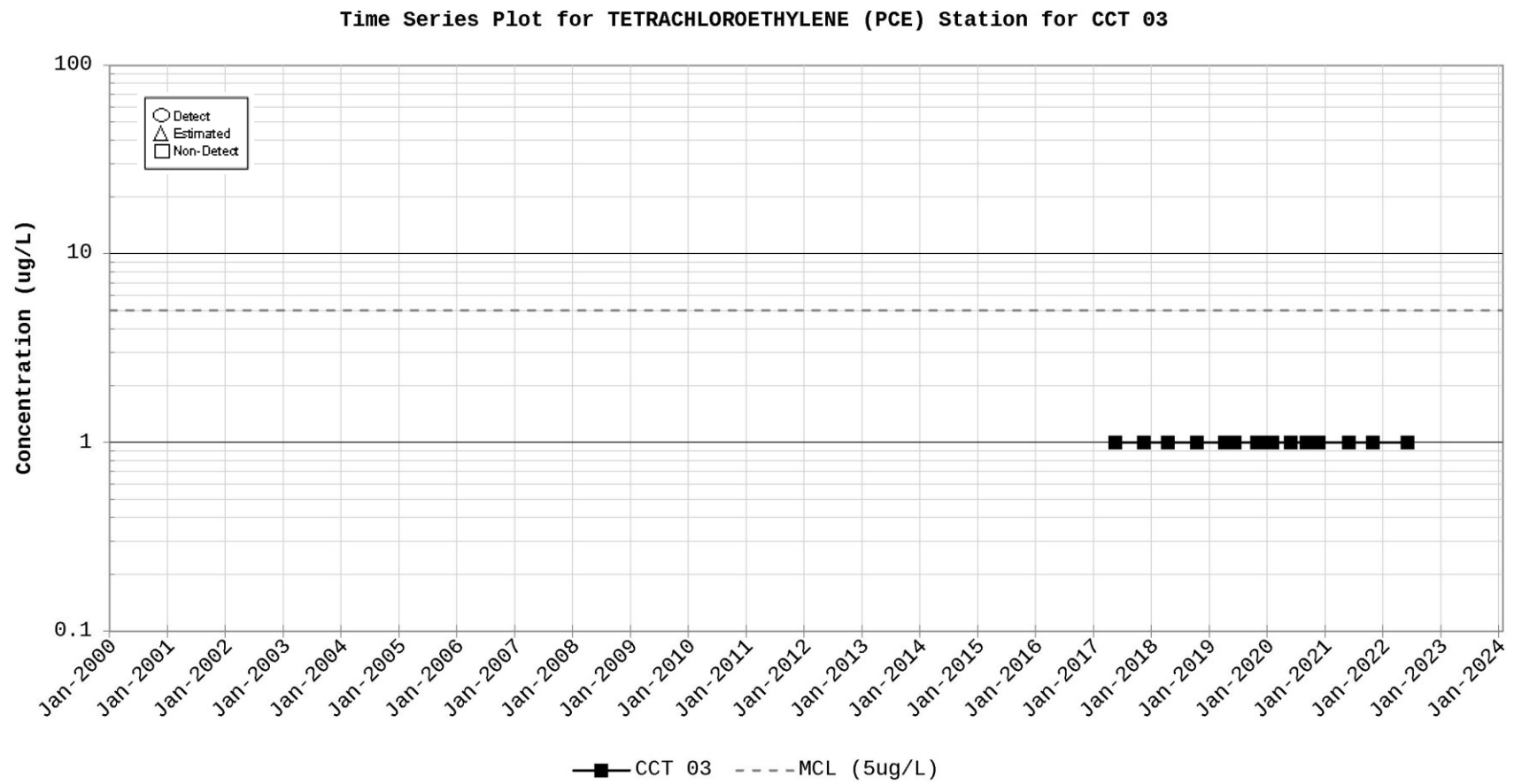


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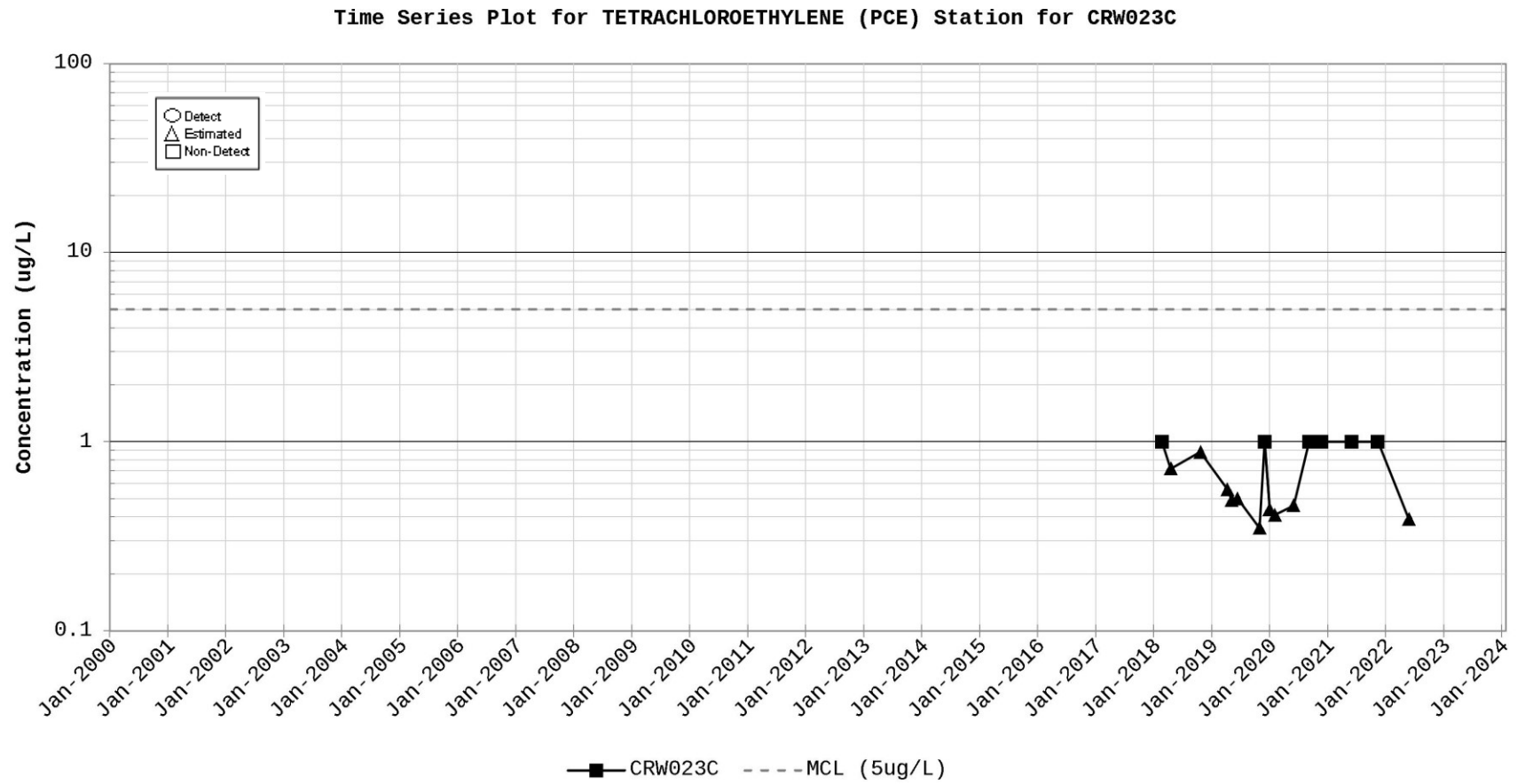


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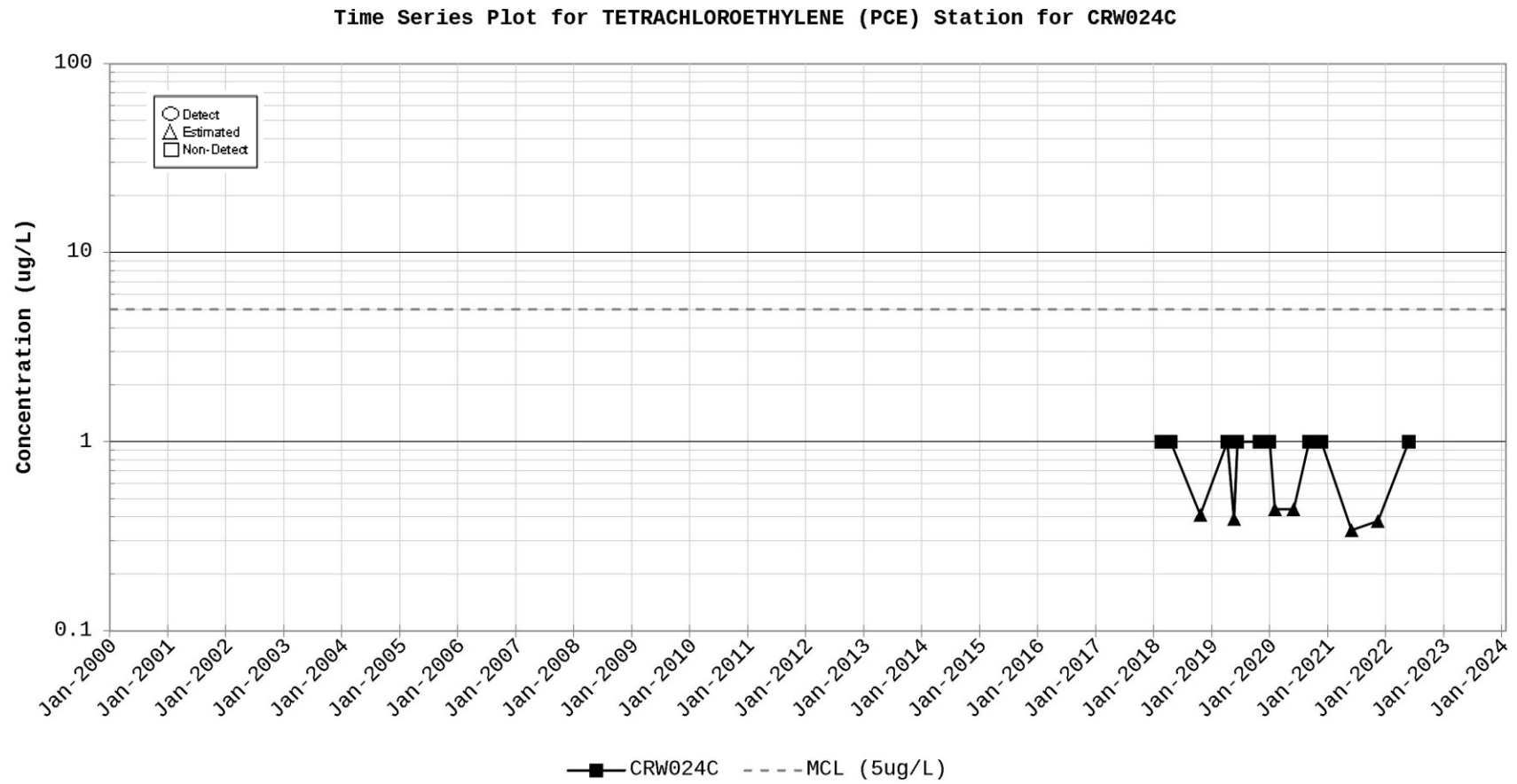


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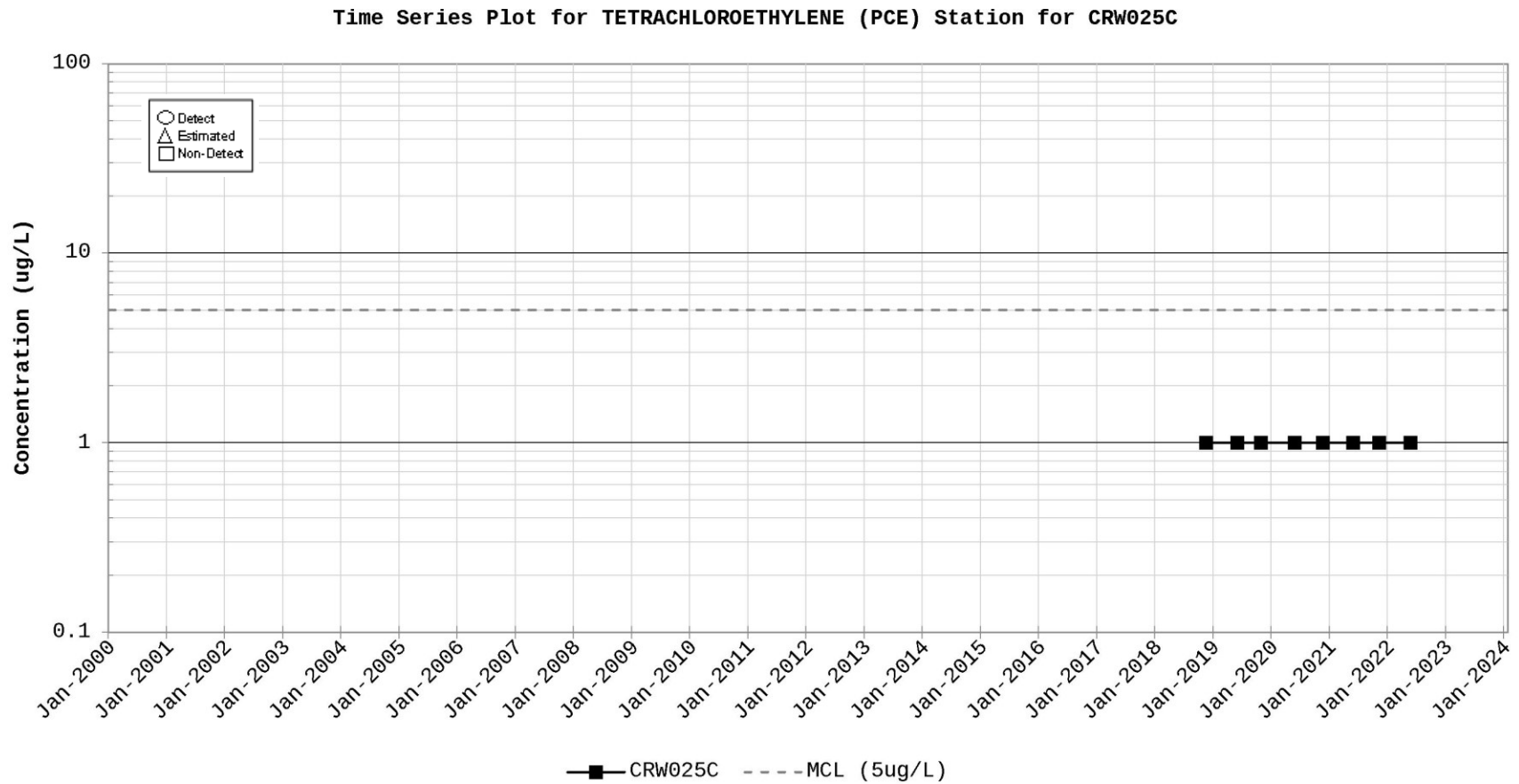


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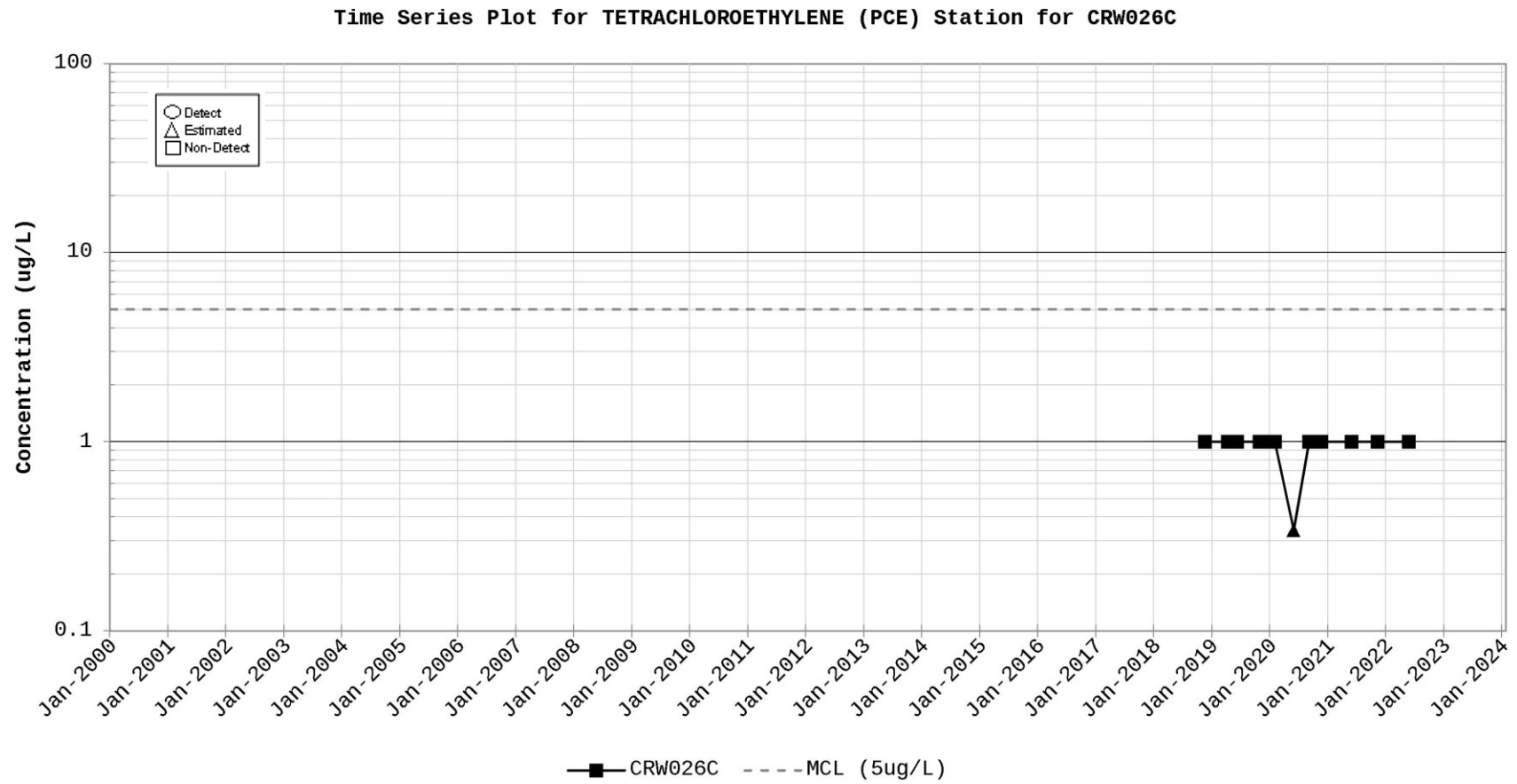


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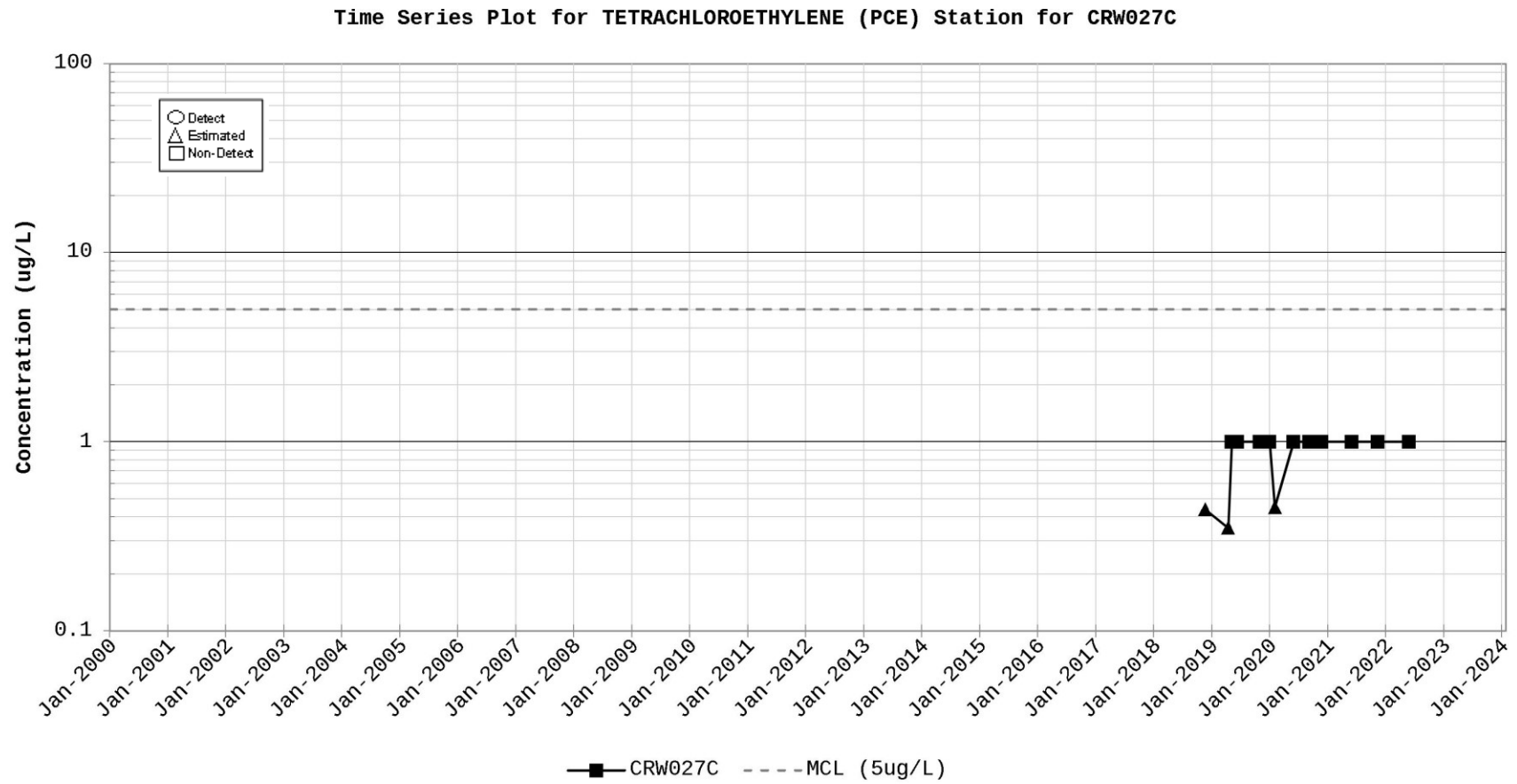


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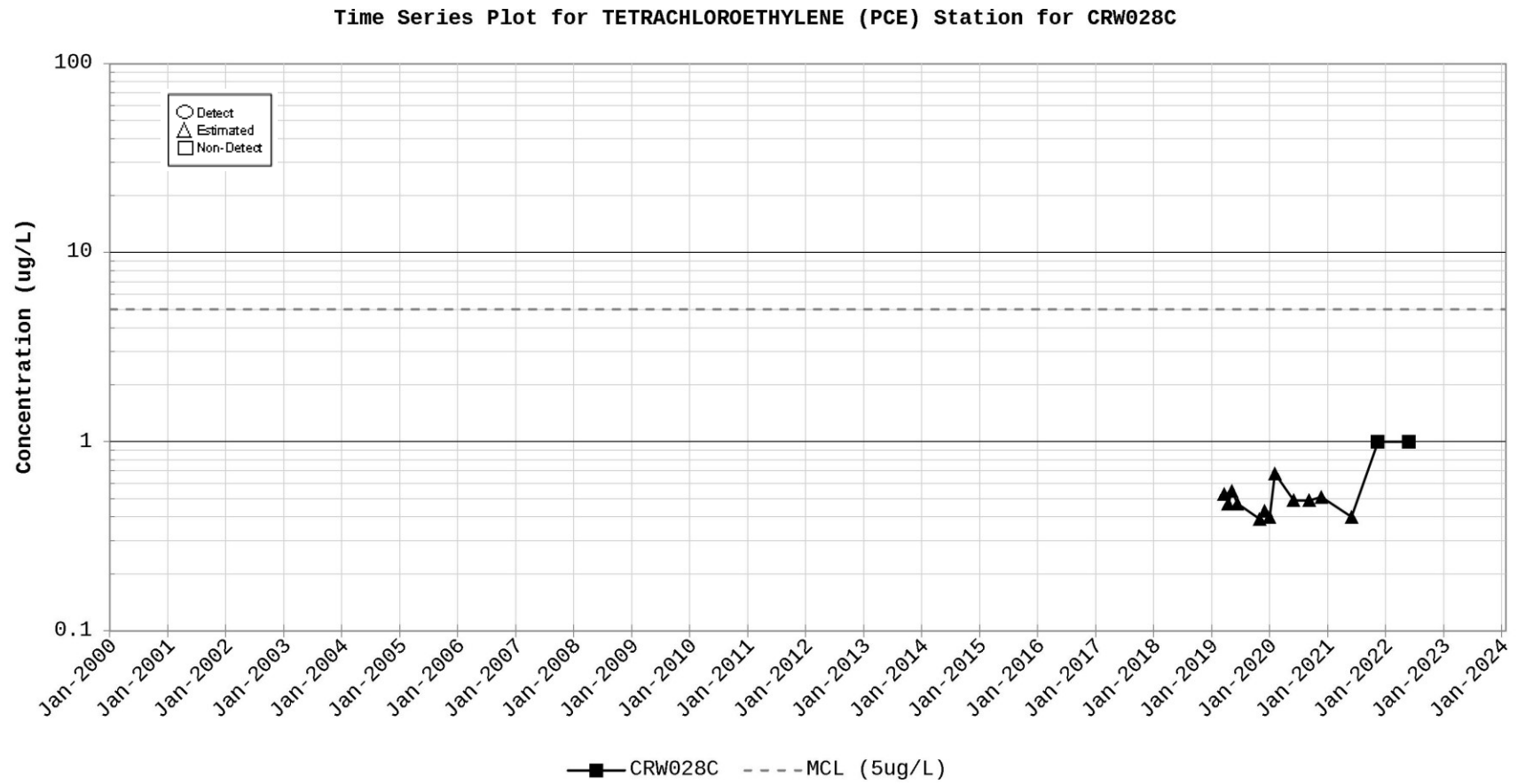


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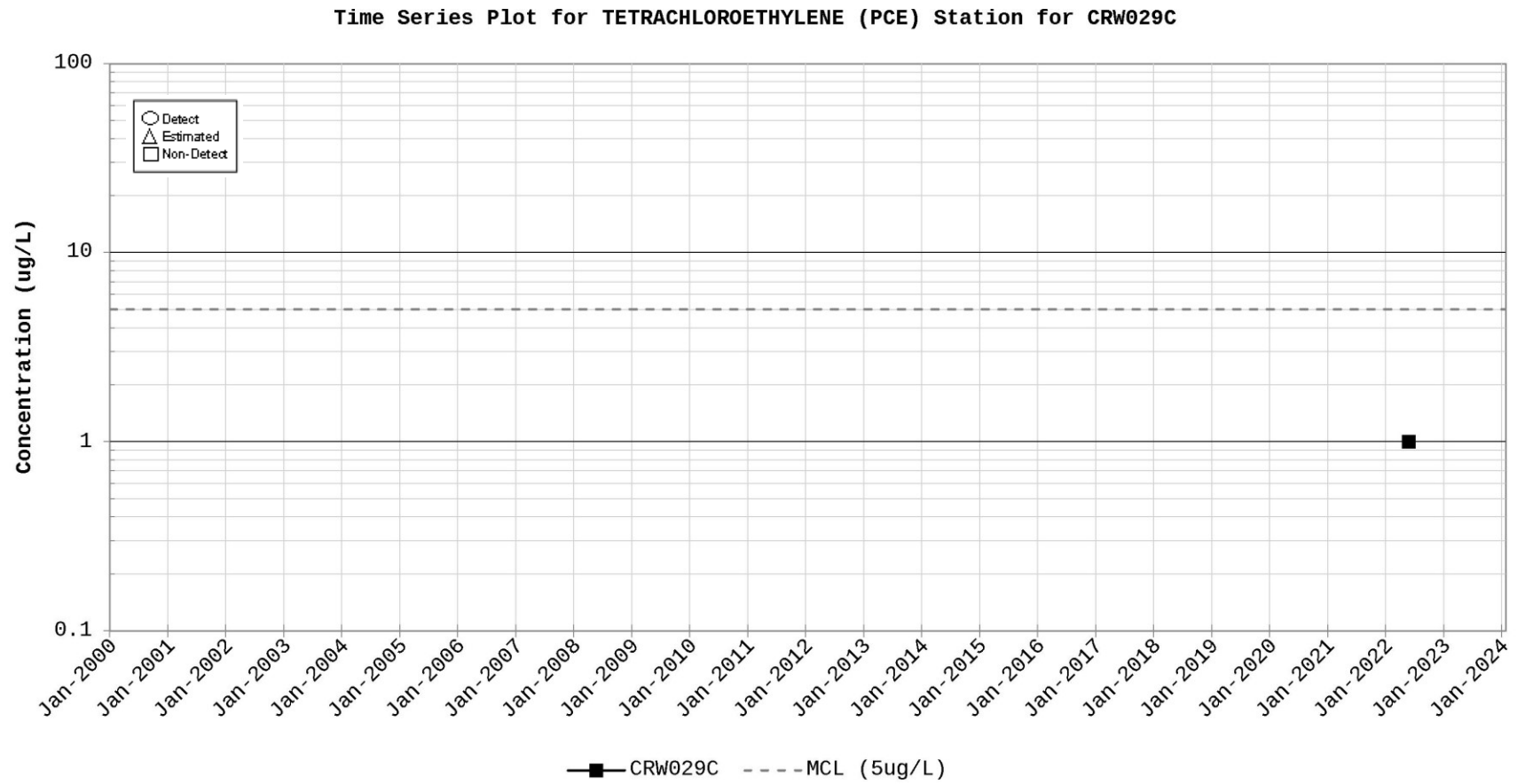


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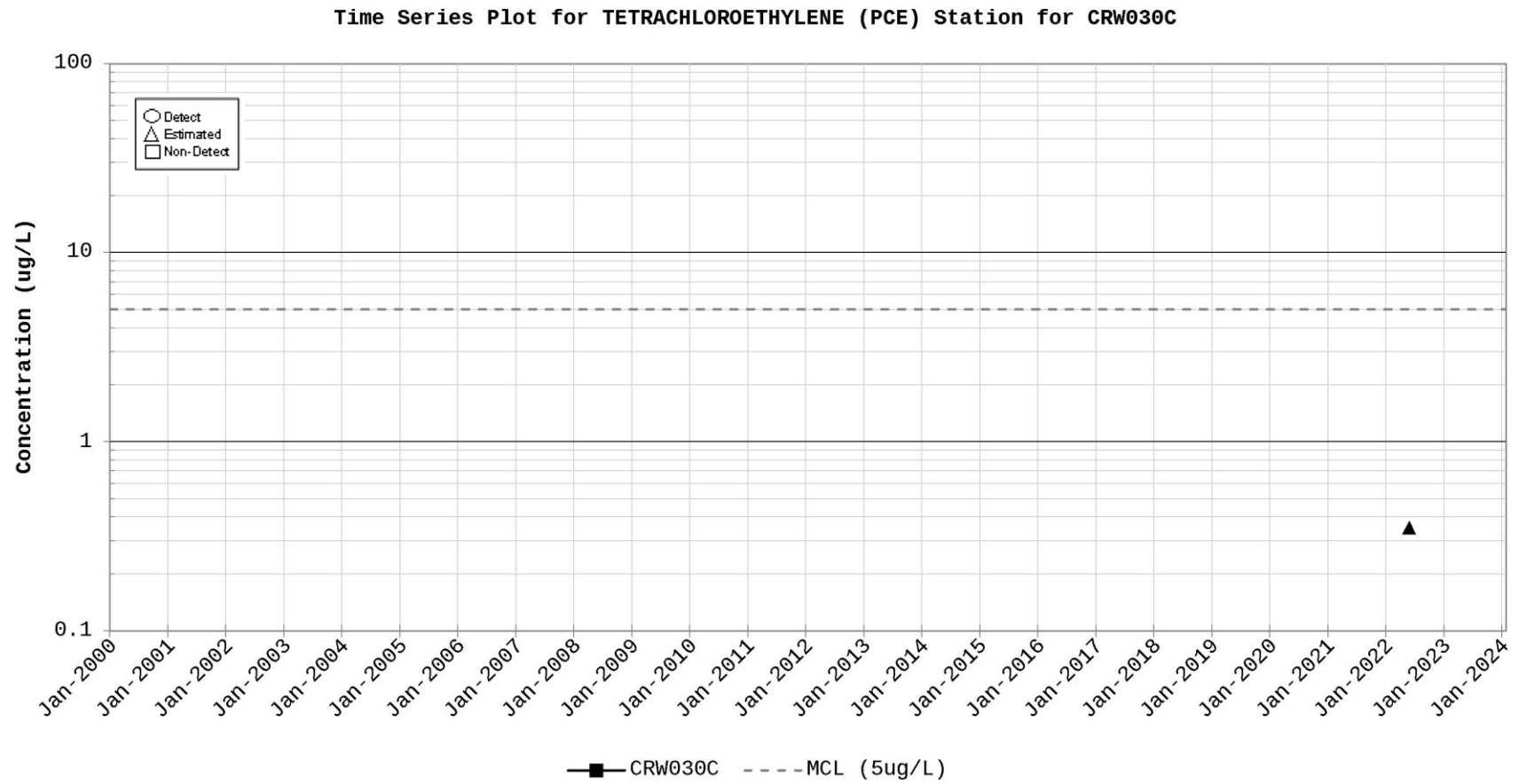


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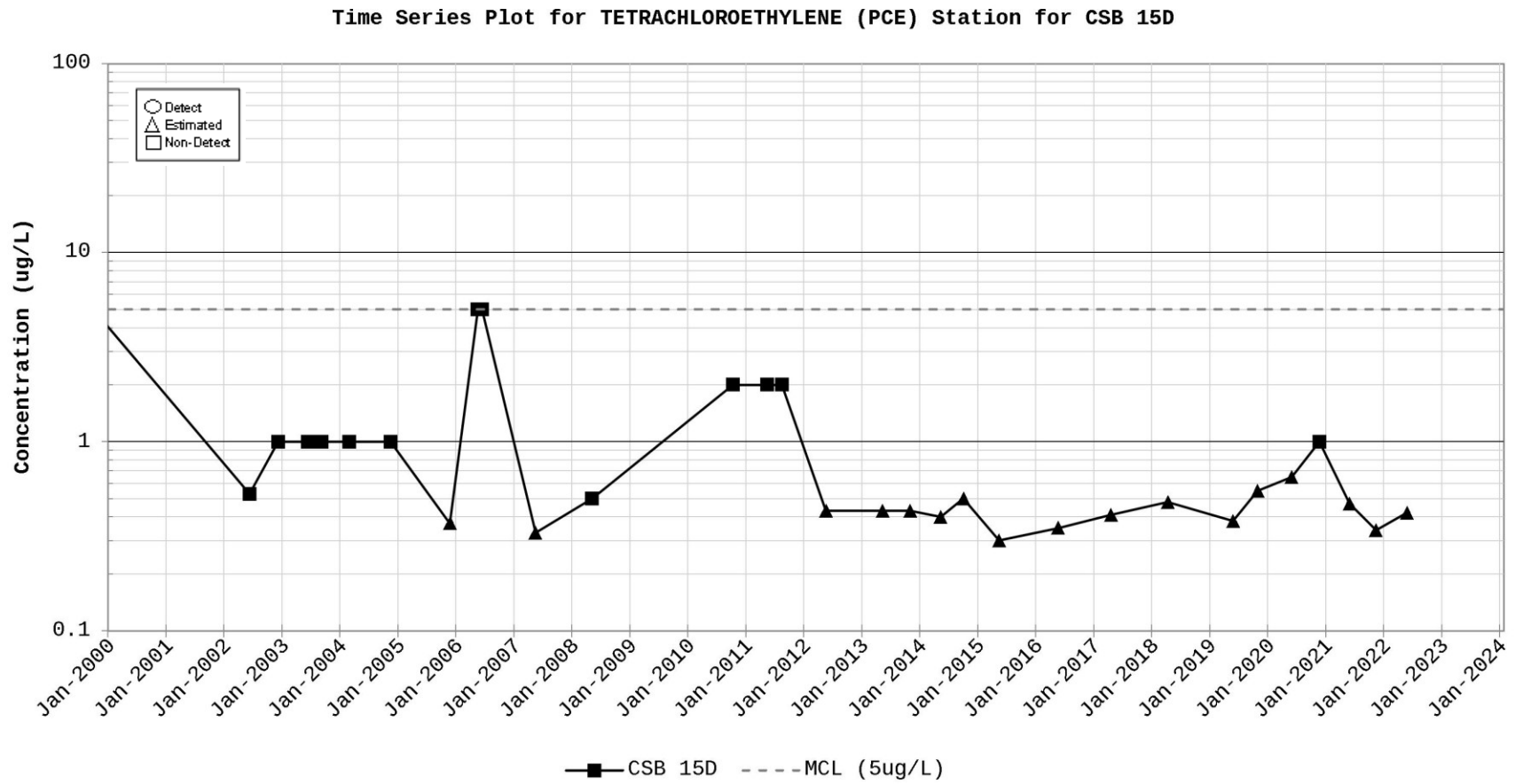


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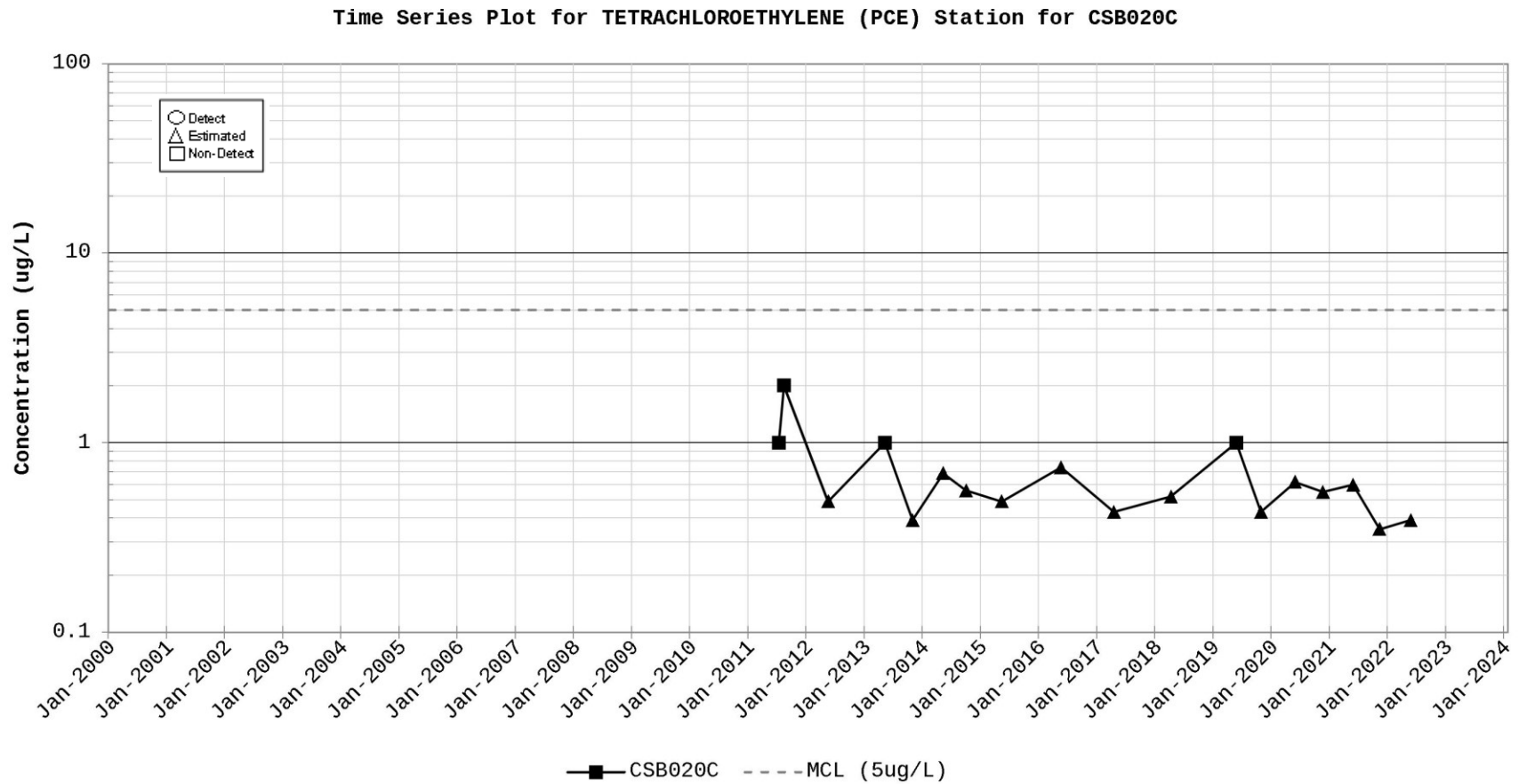


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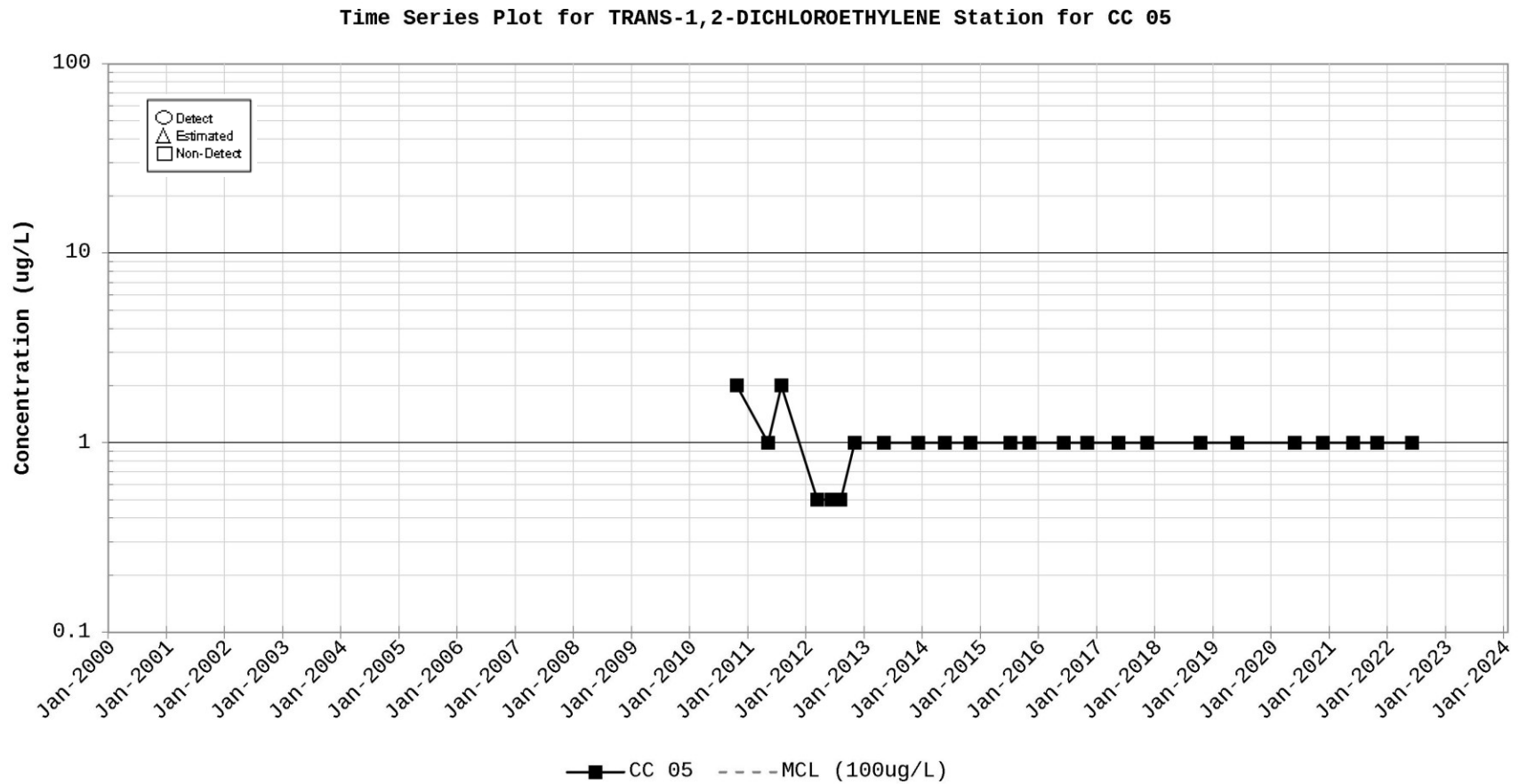


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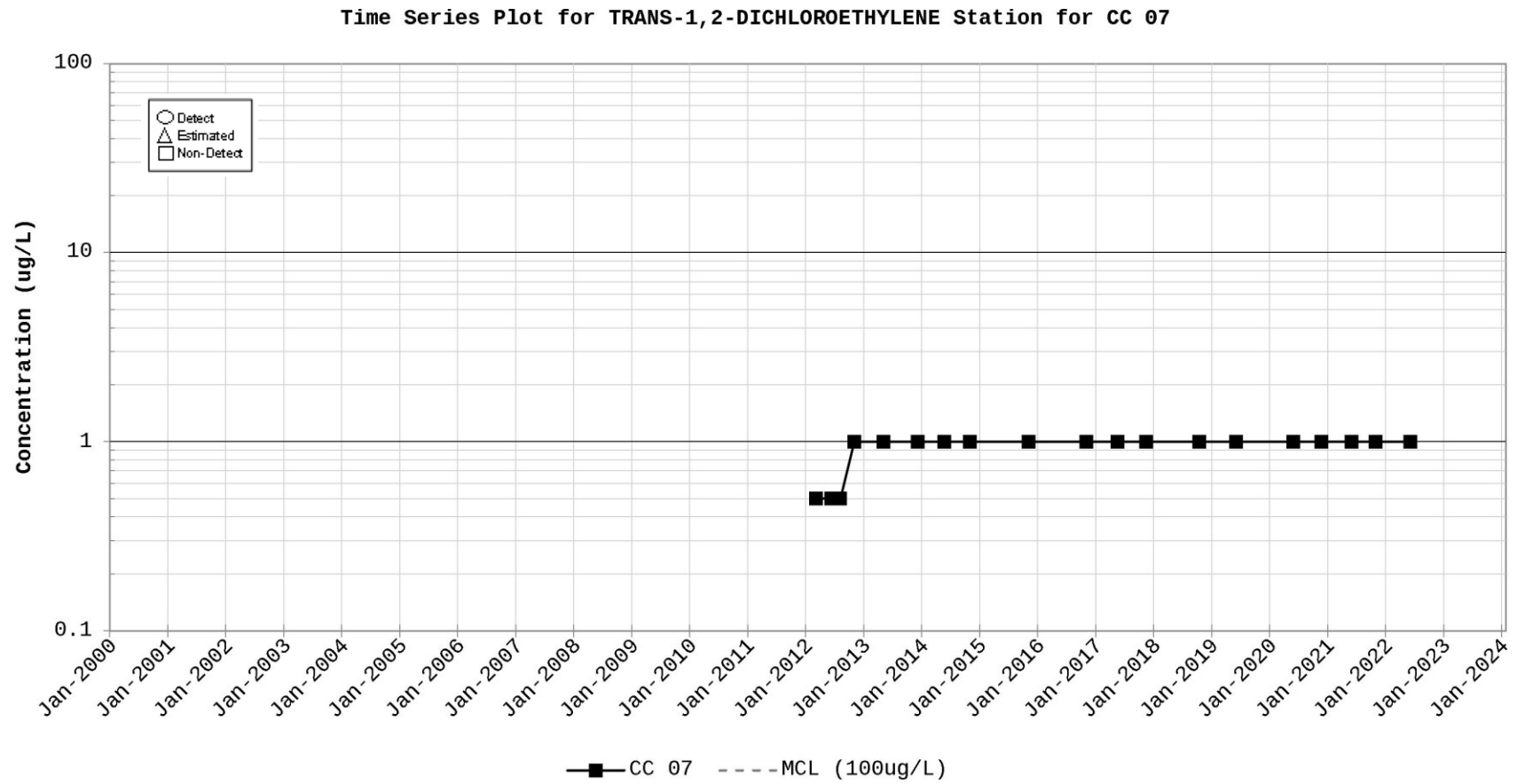


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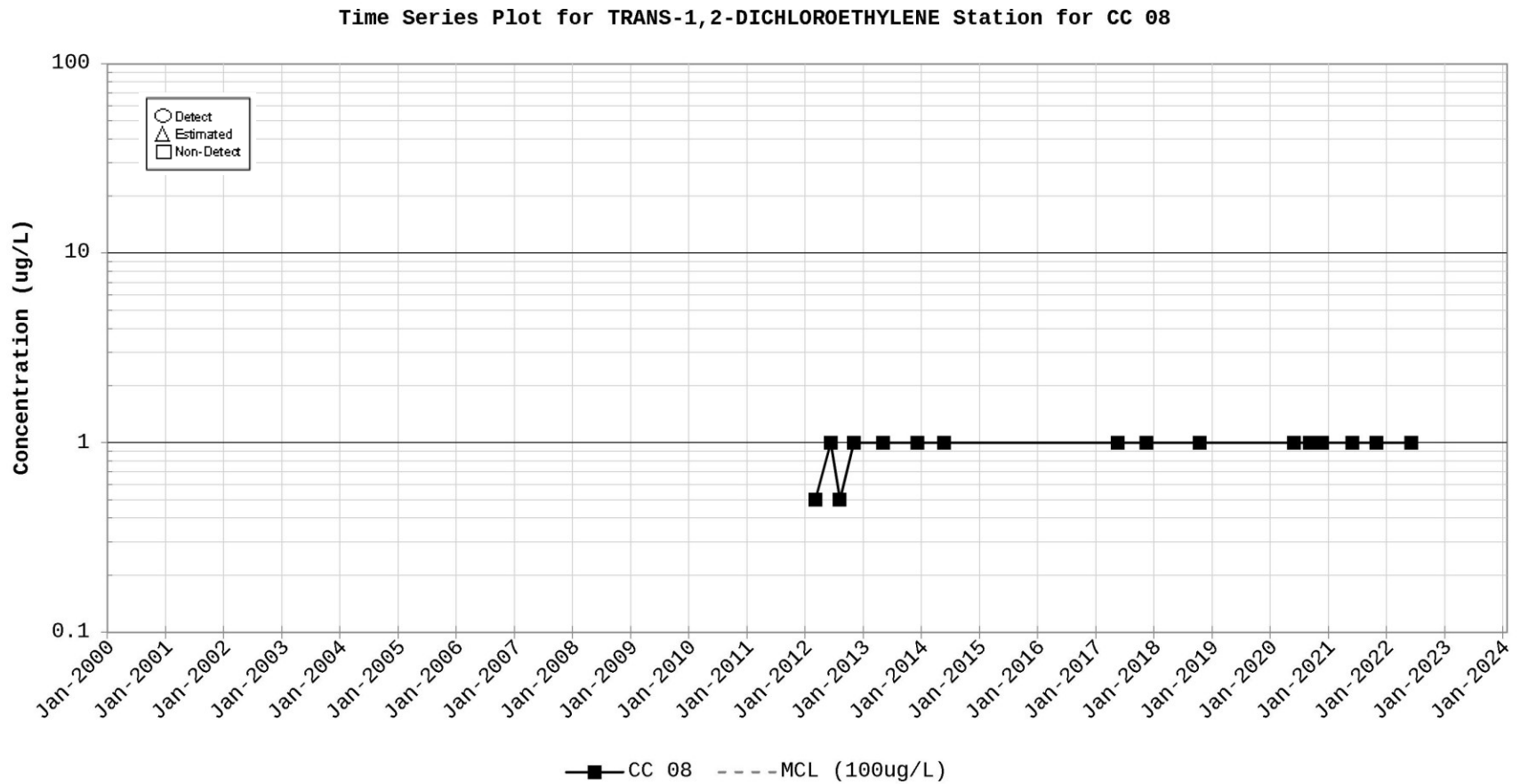


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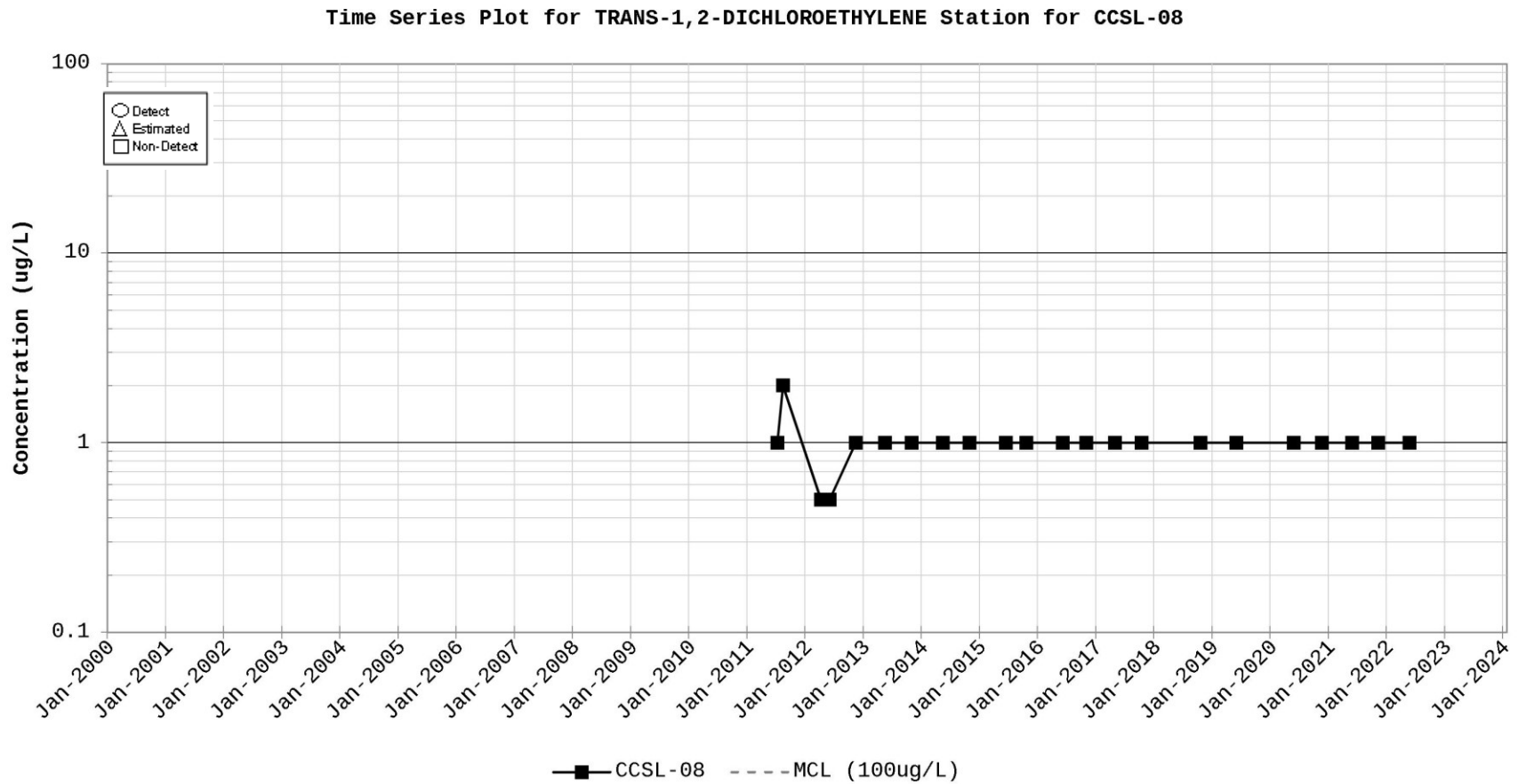


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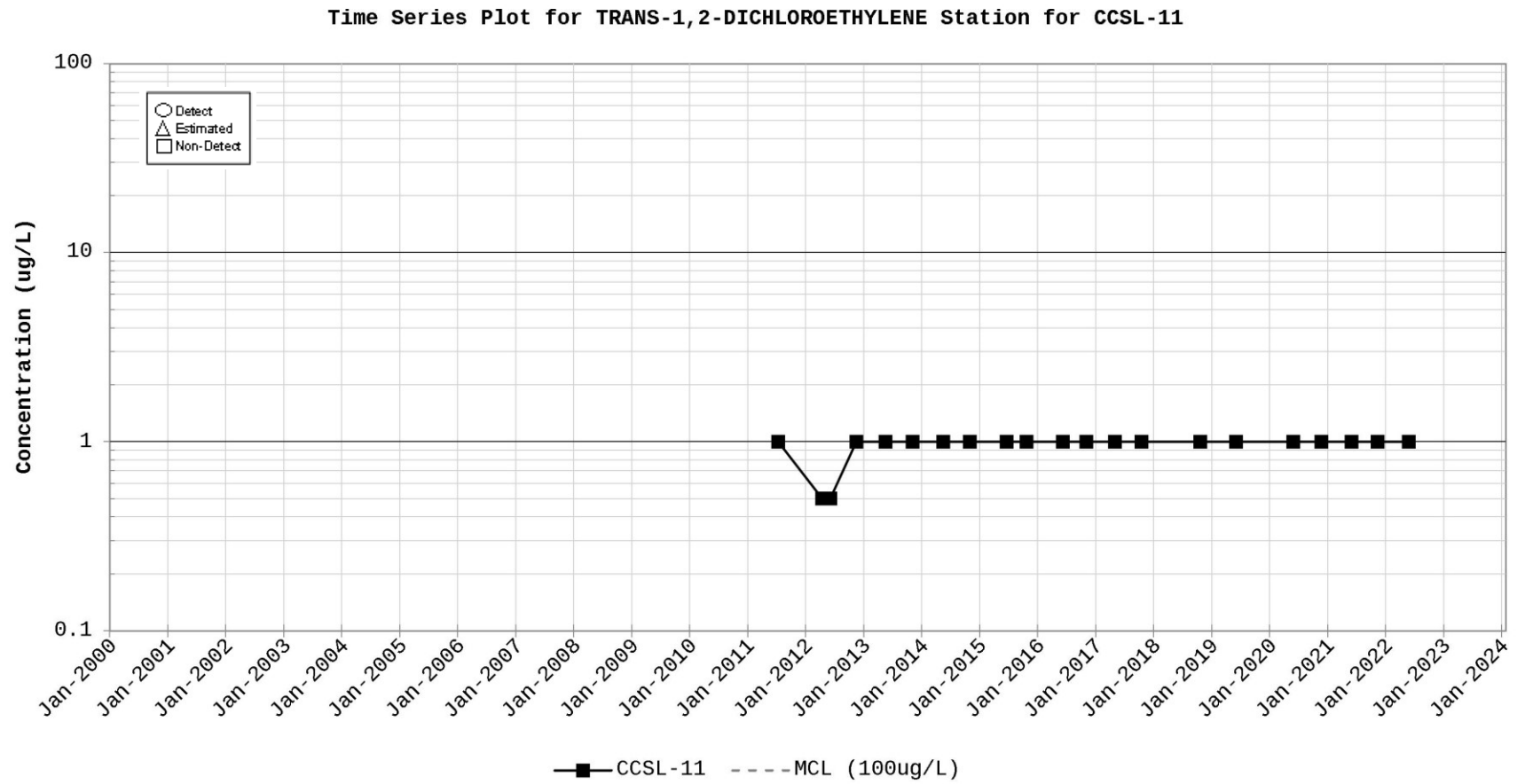


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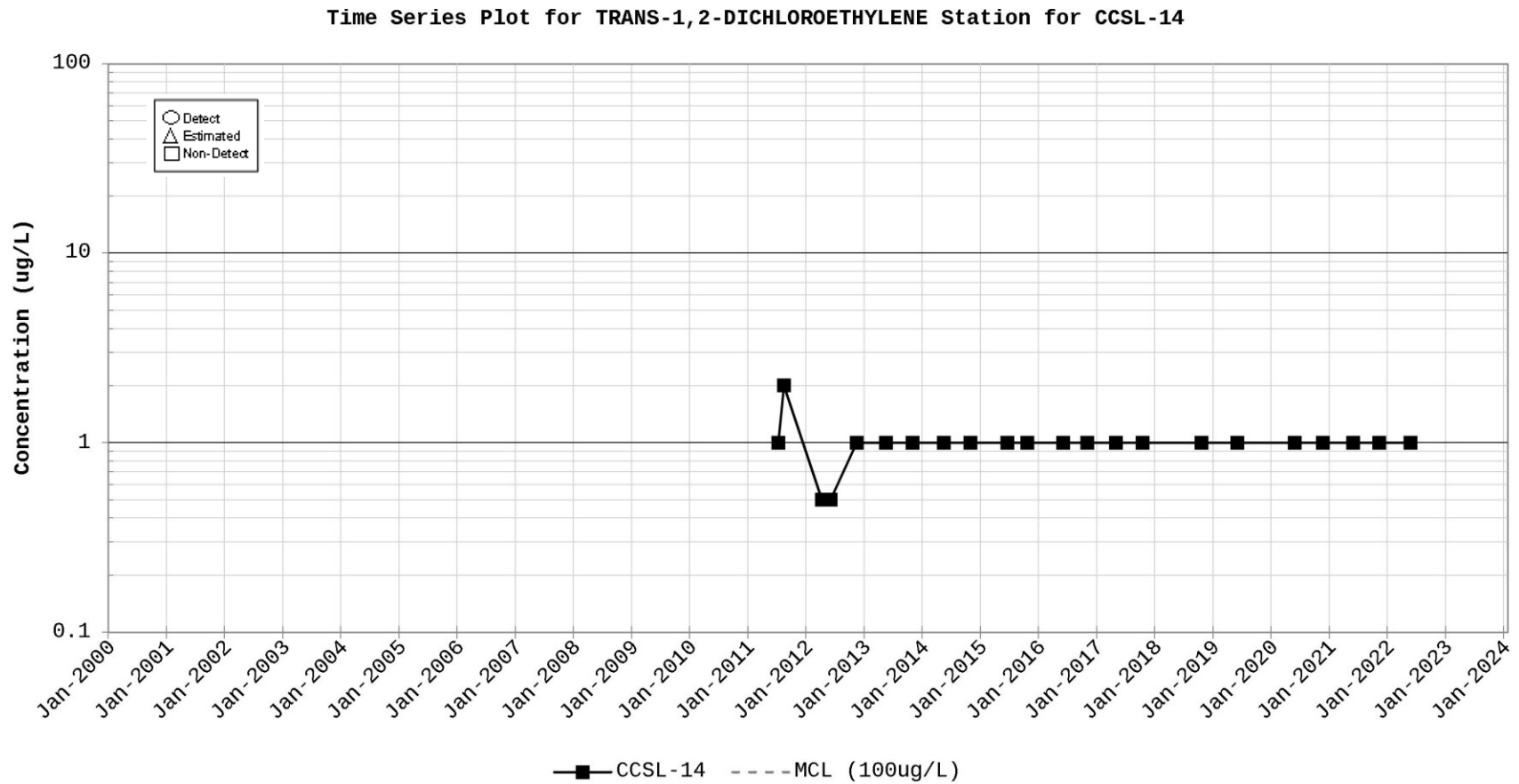


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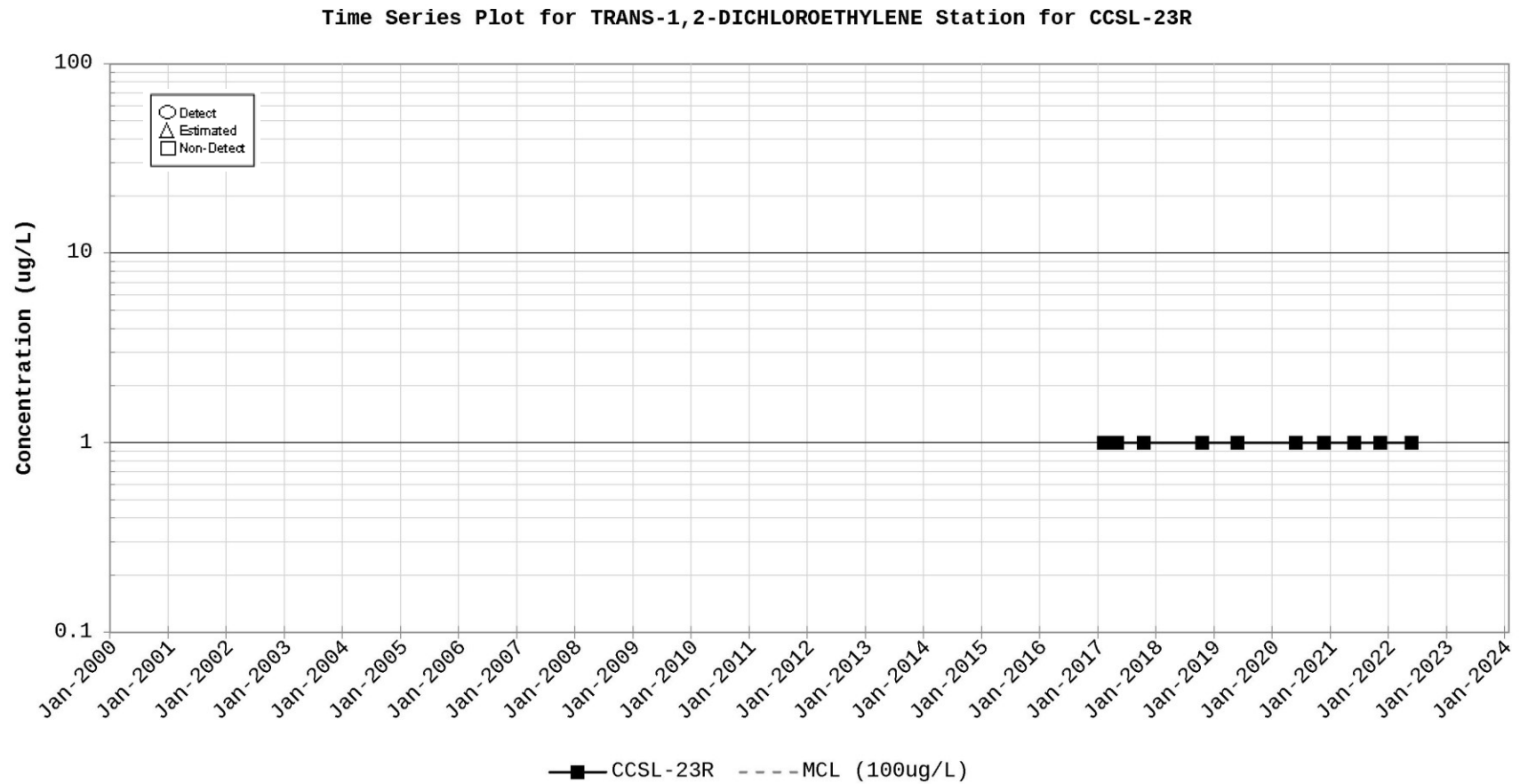


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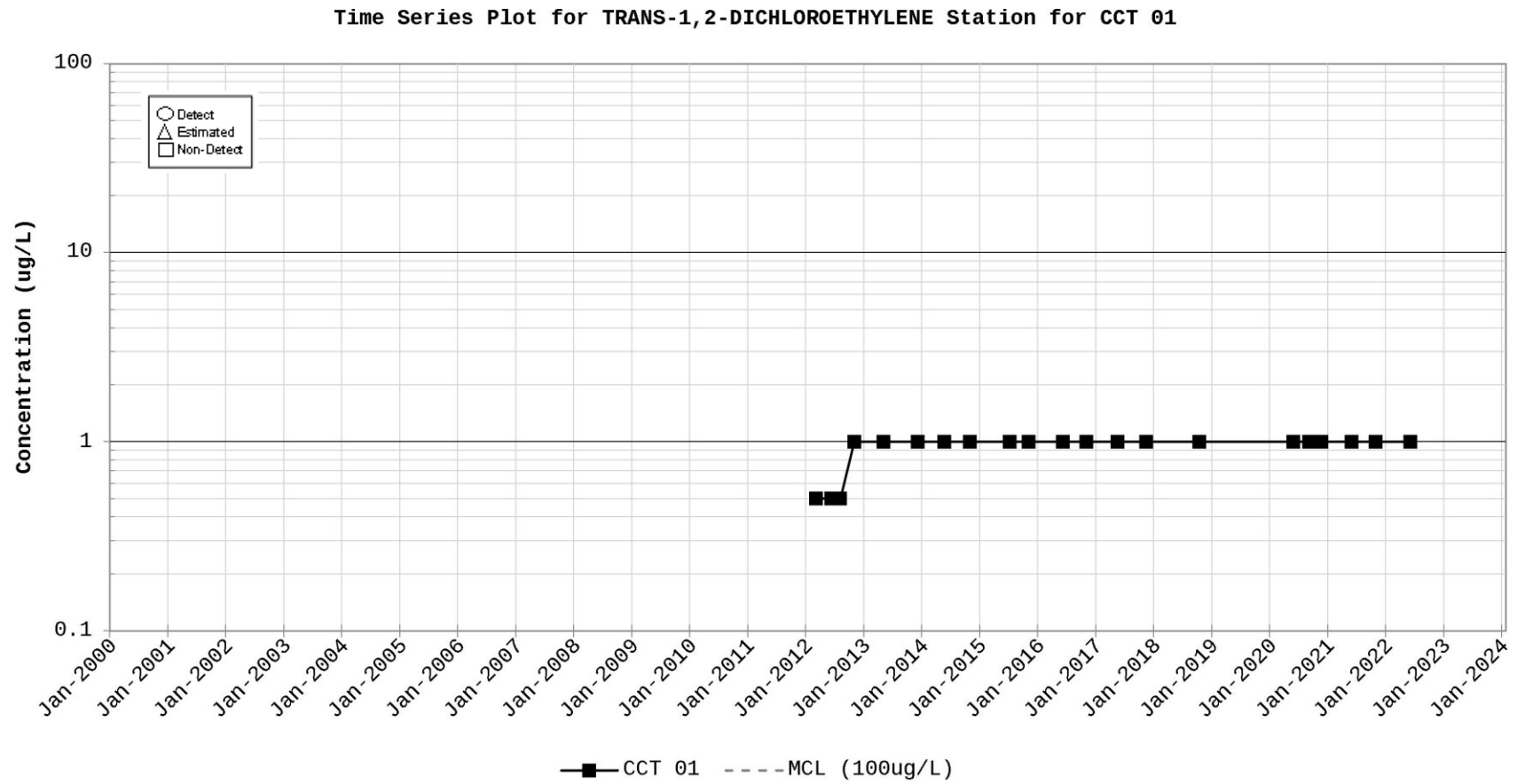


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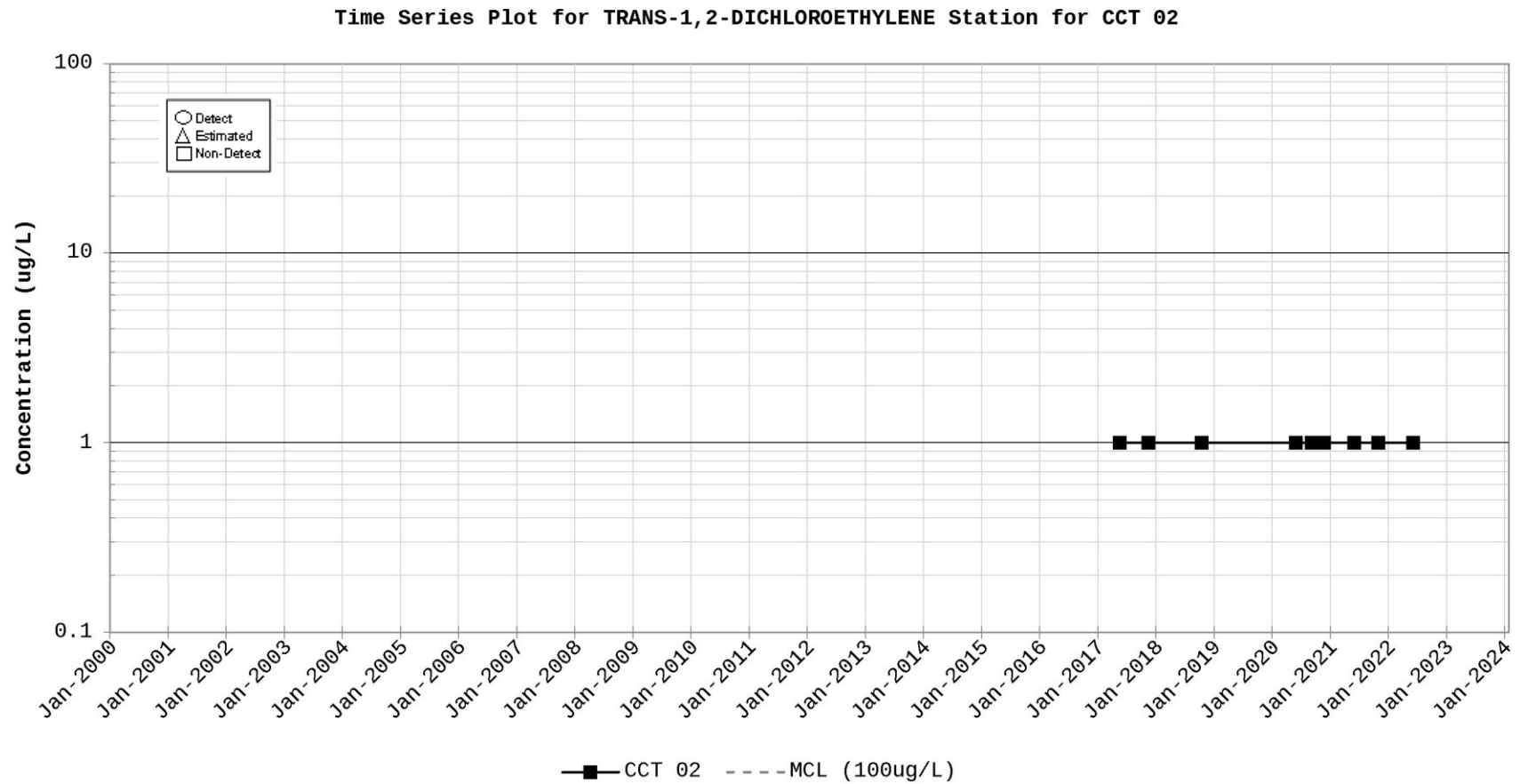


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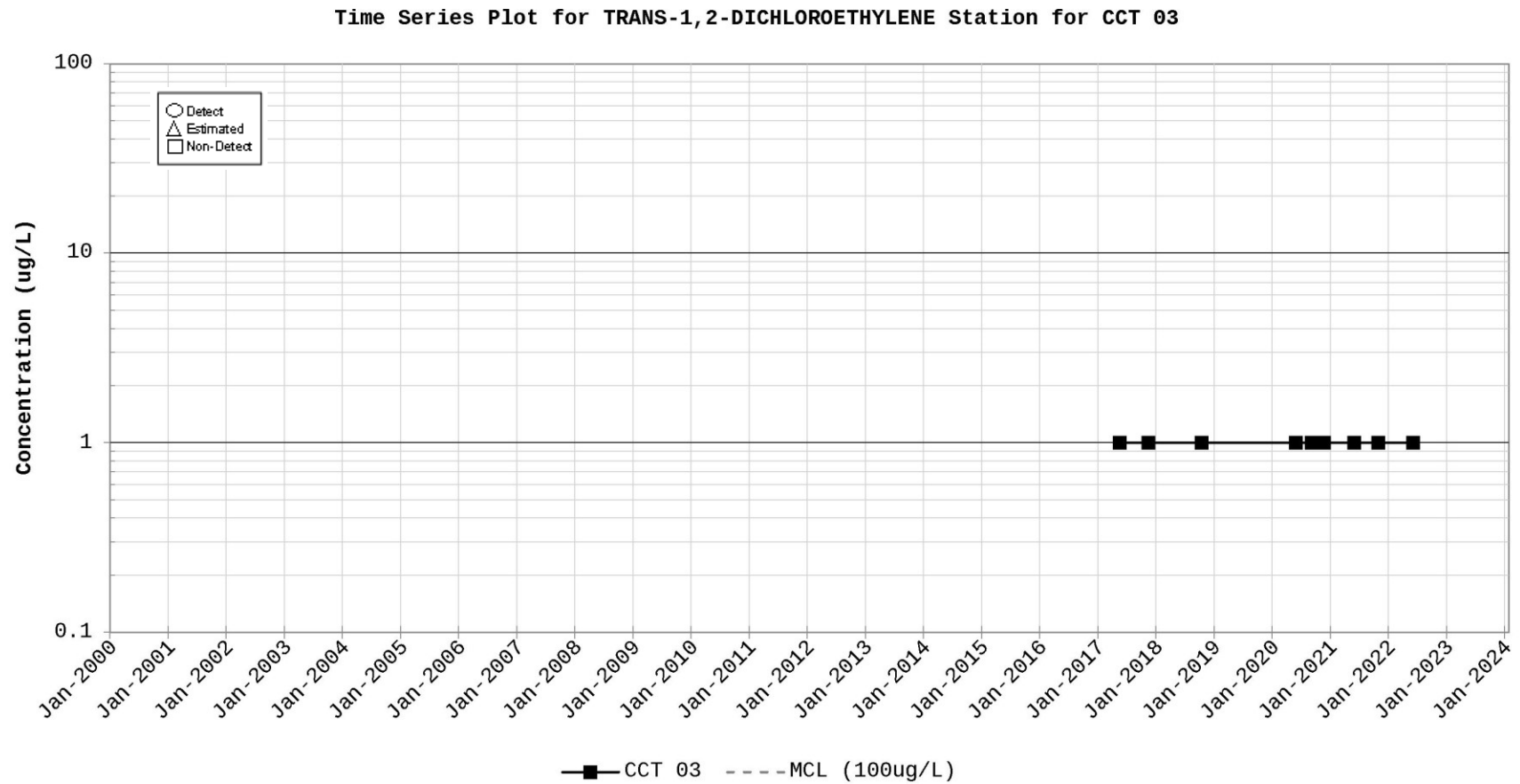


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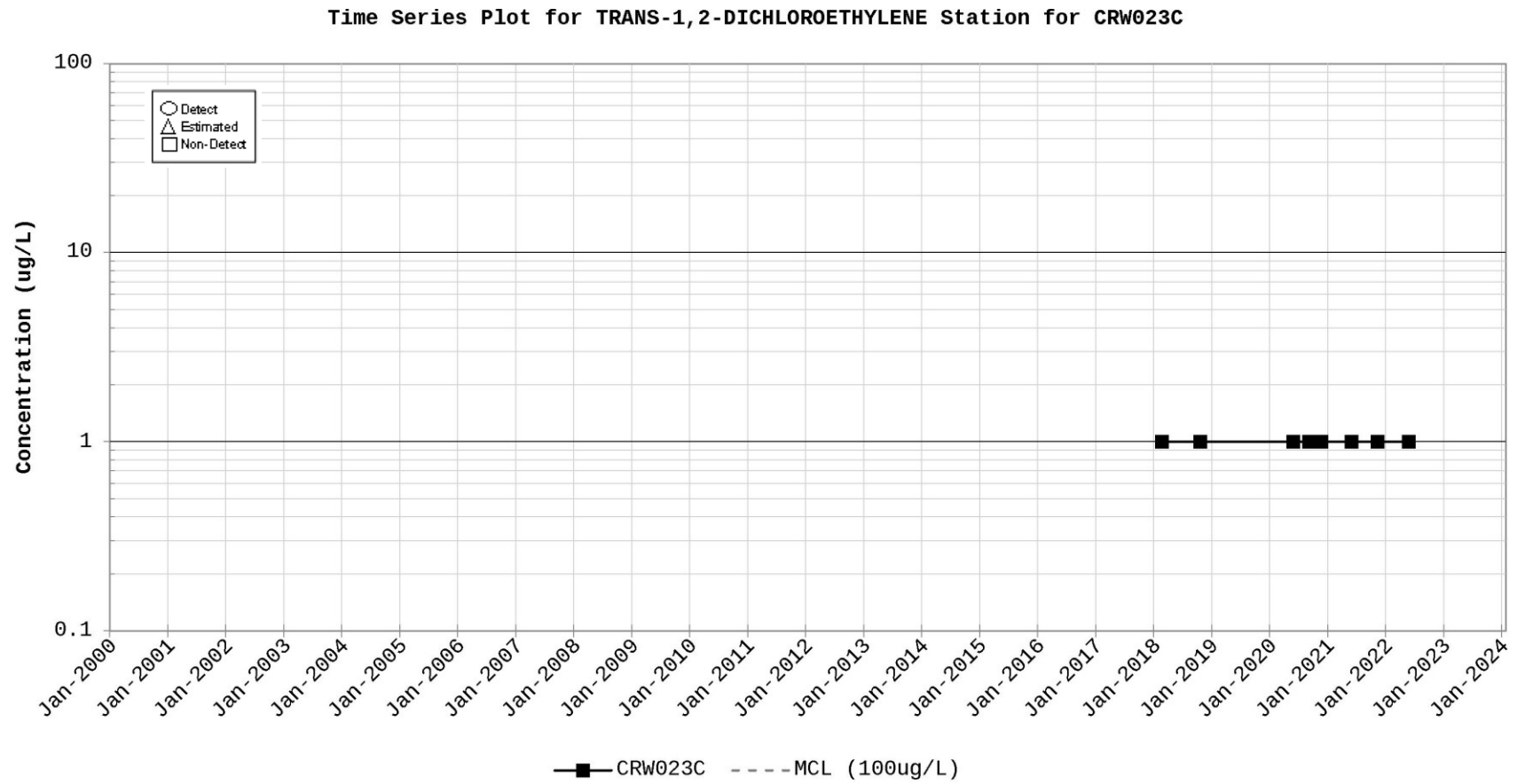


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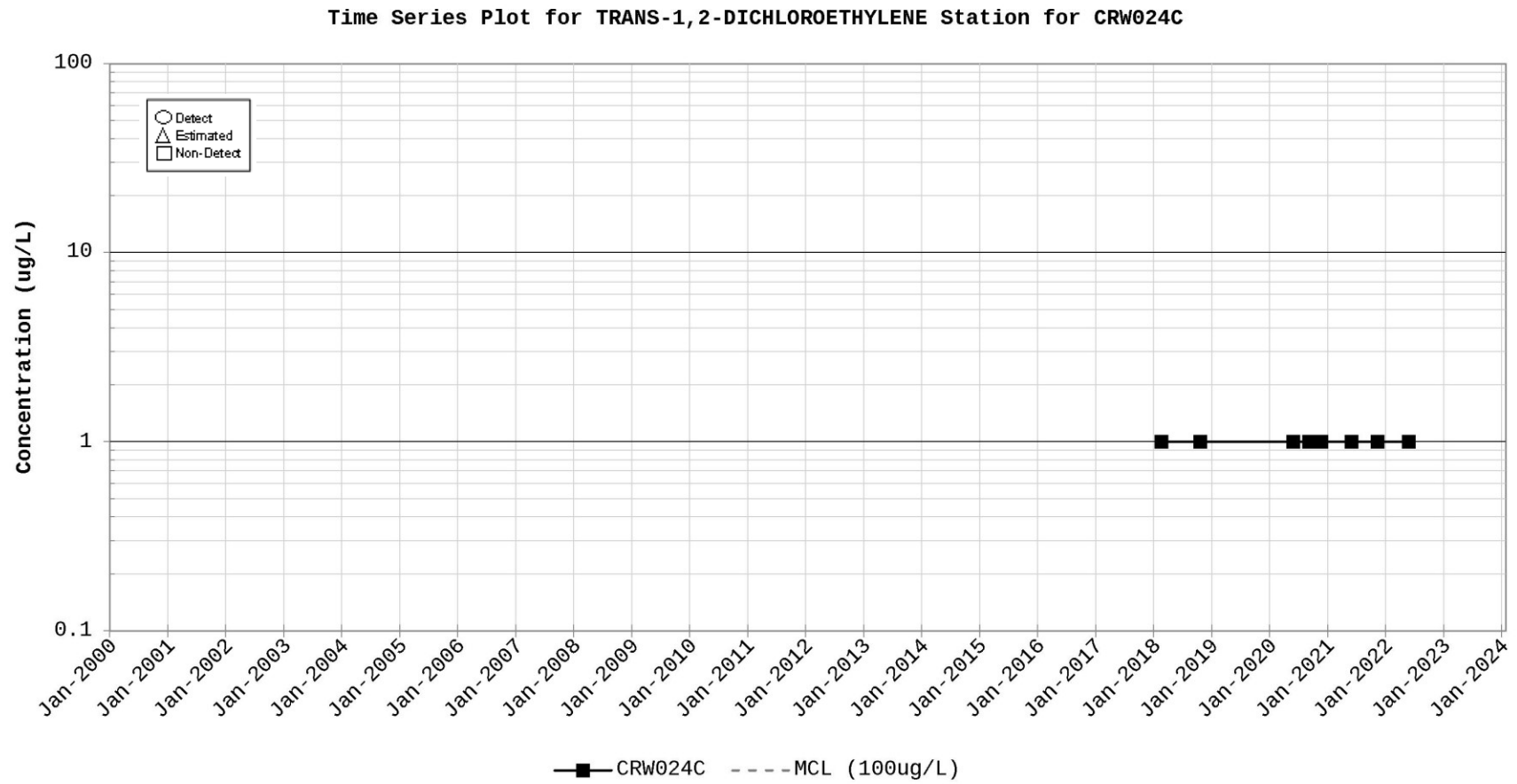


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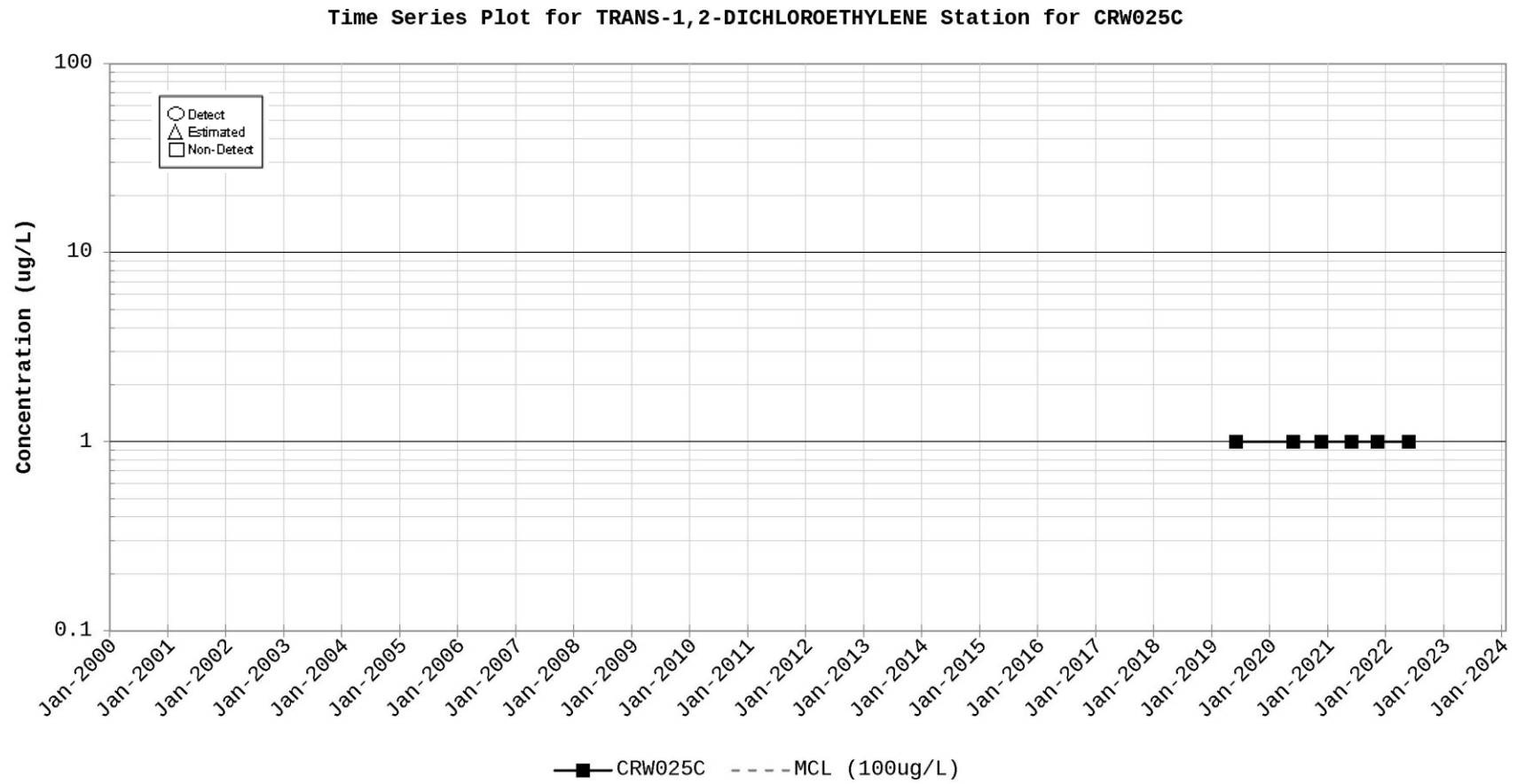


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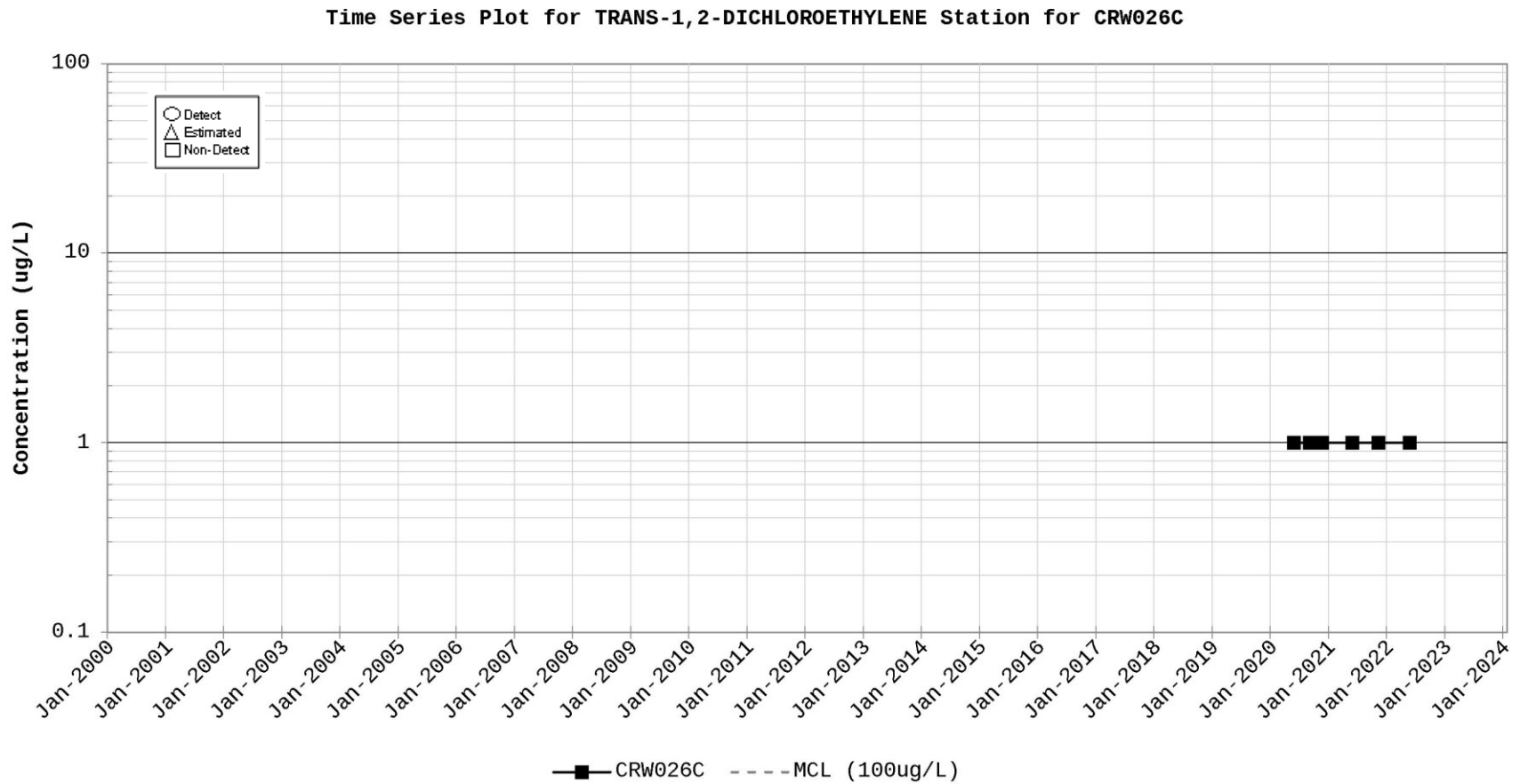


Figure C-95.

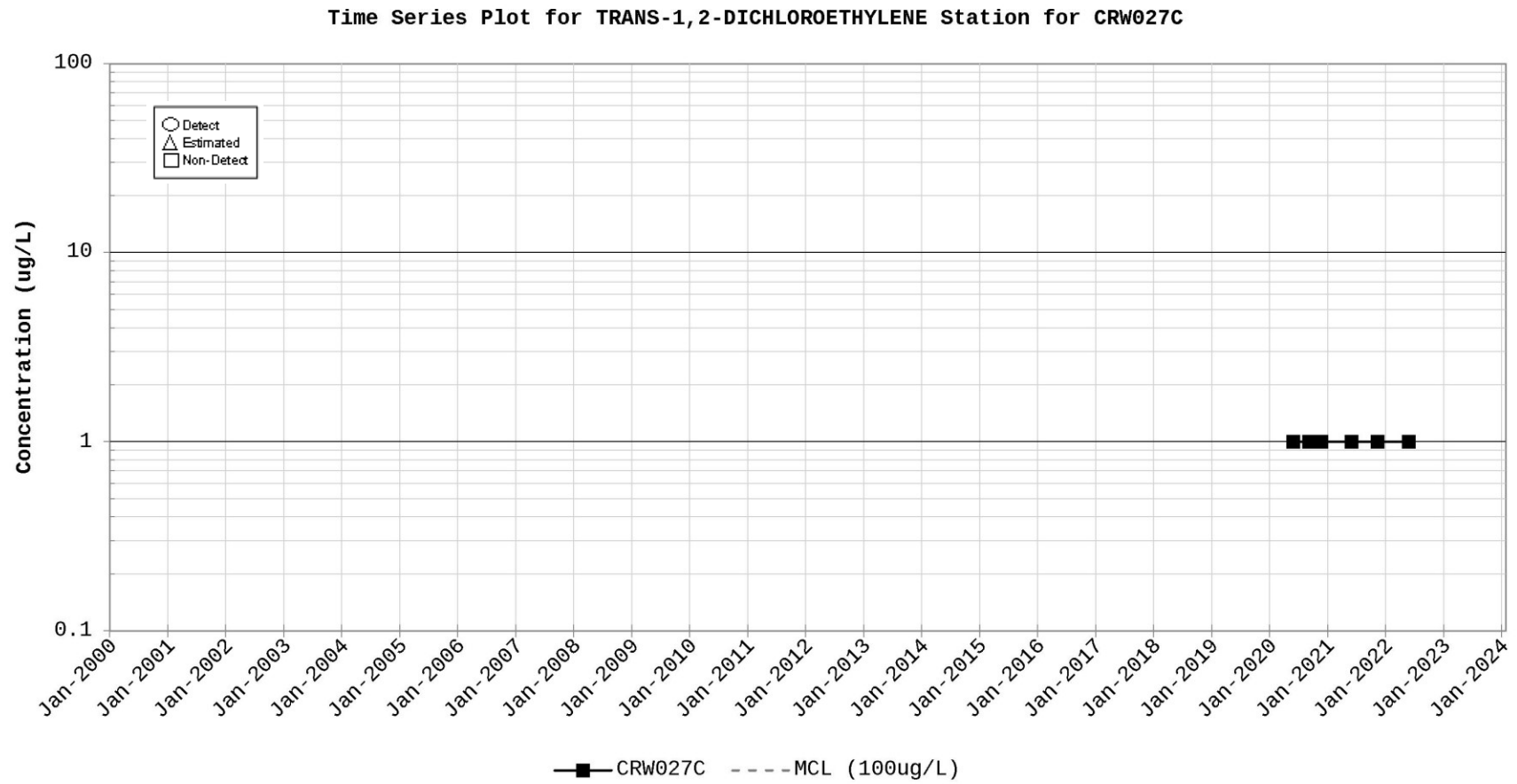


Figure C-96.

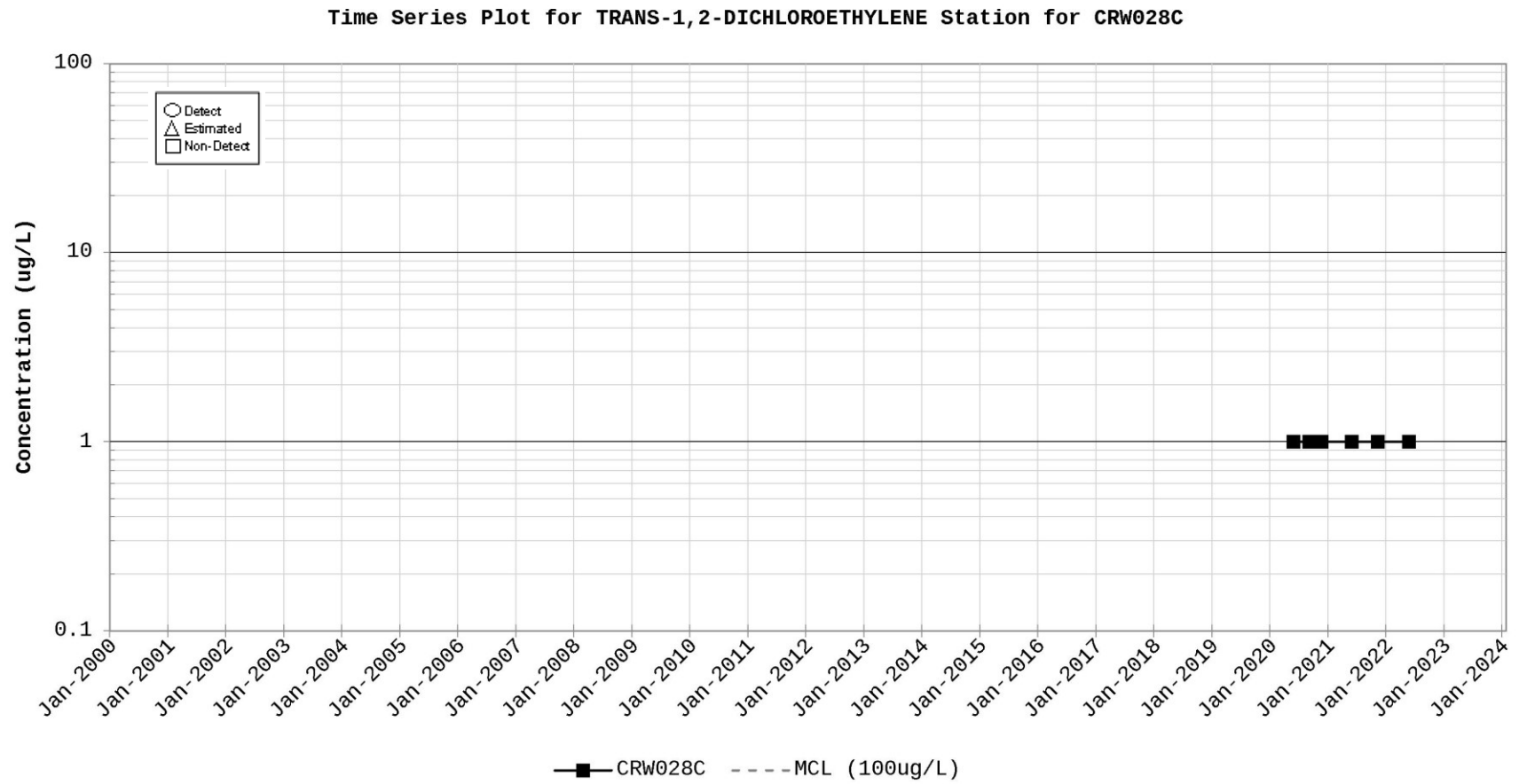


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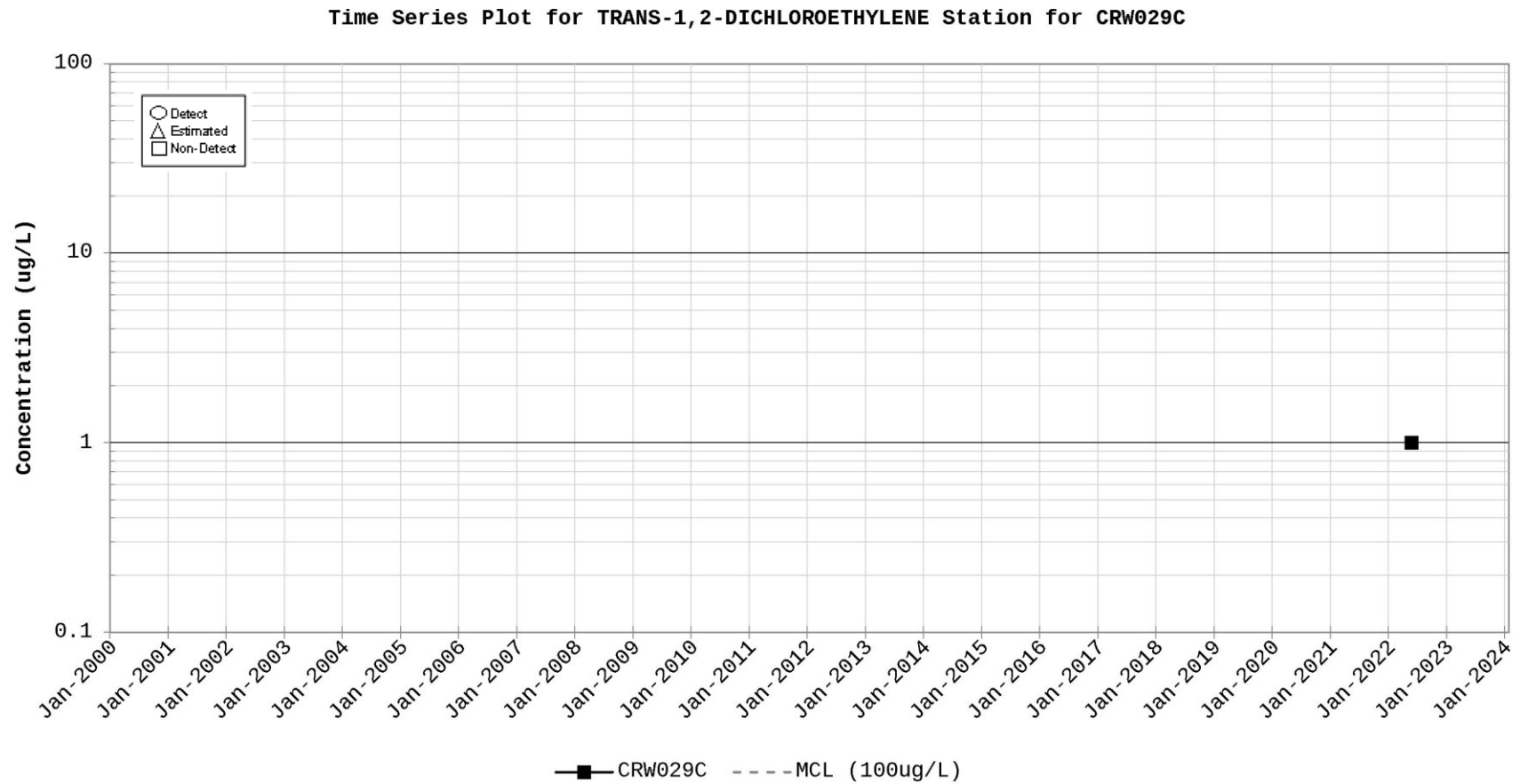


Figure C-98.

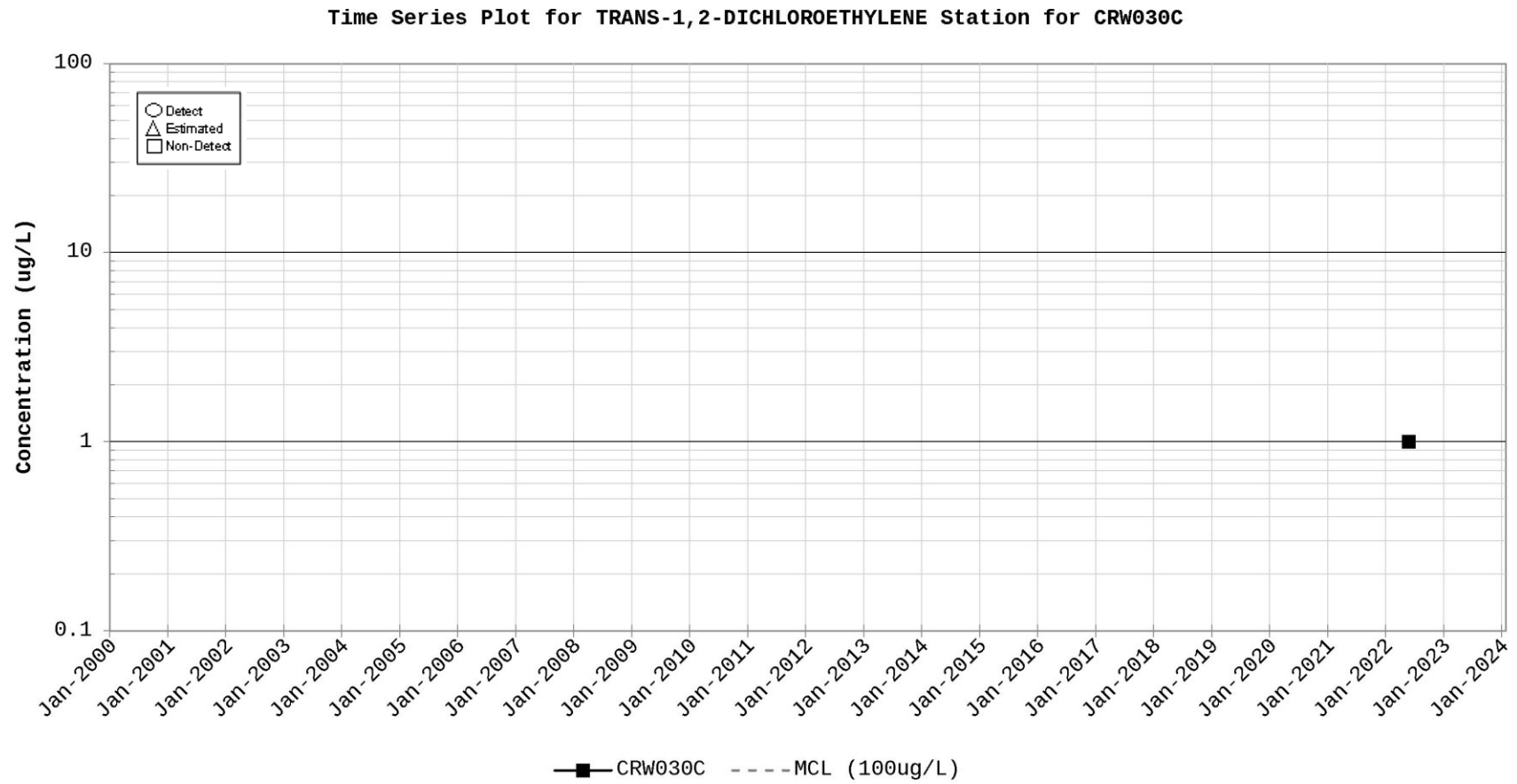


Figure C-99.

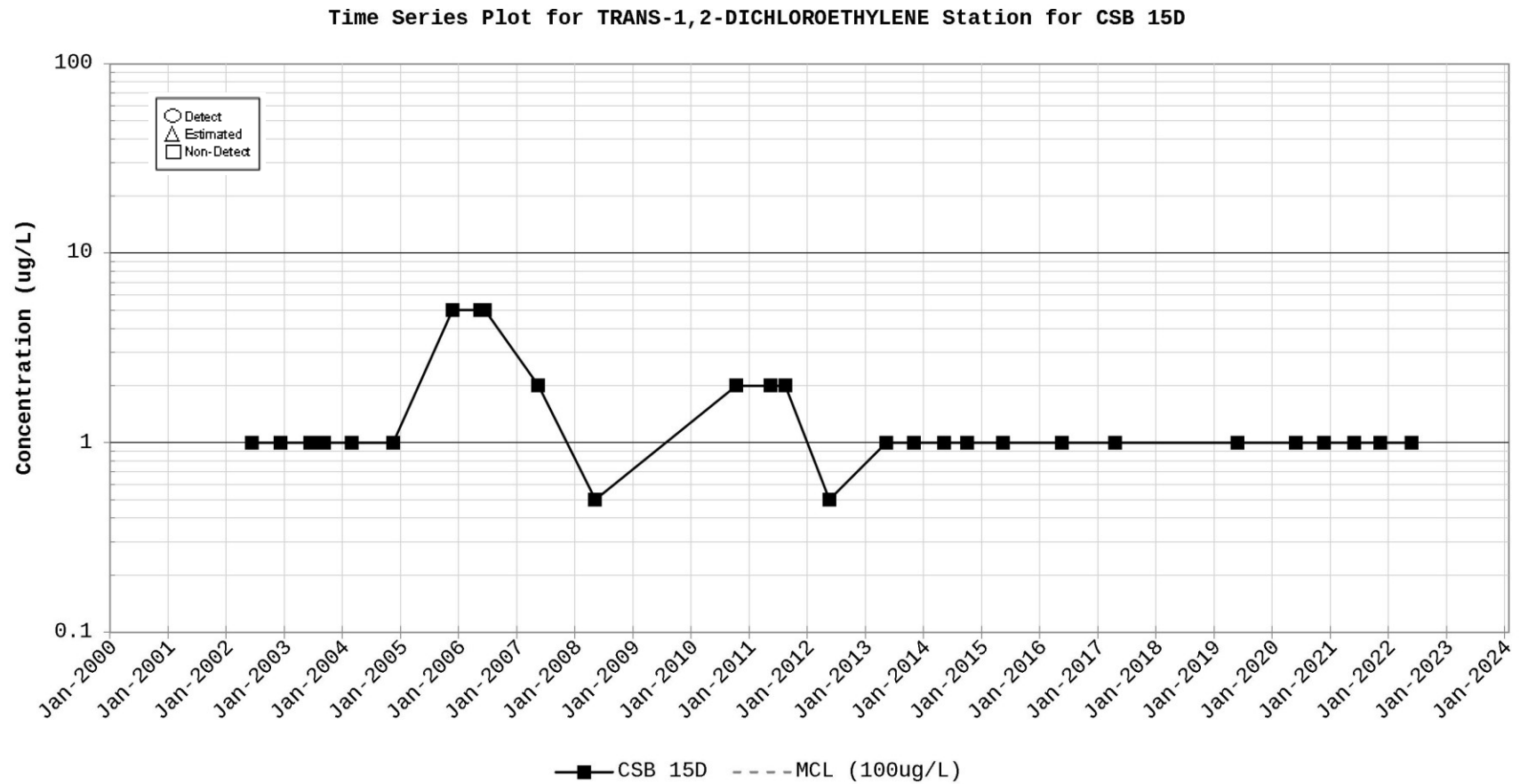


Figure C-100.

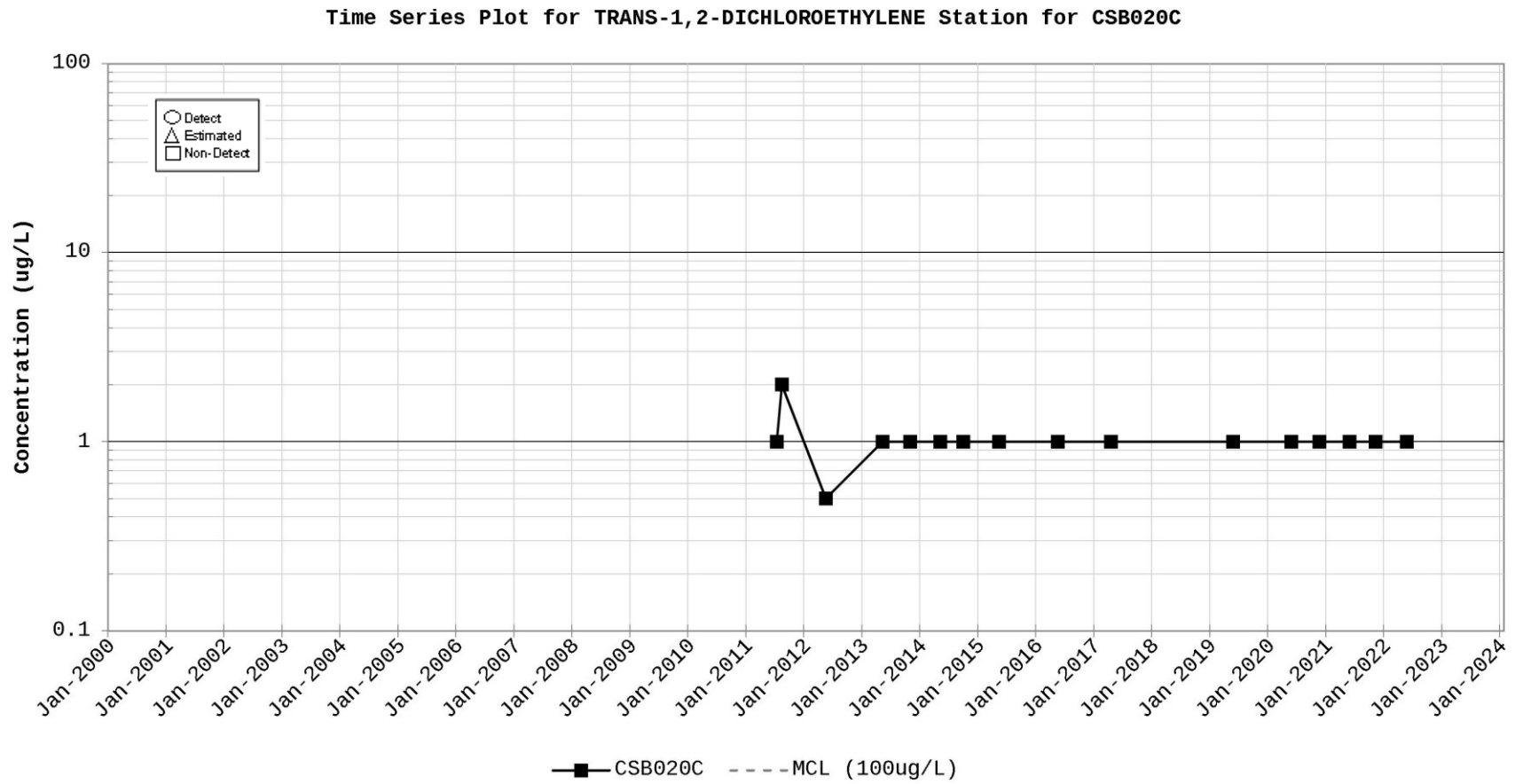


Figure C-101.

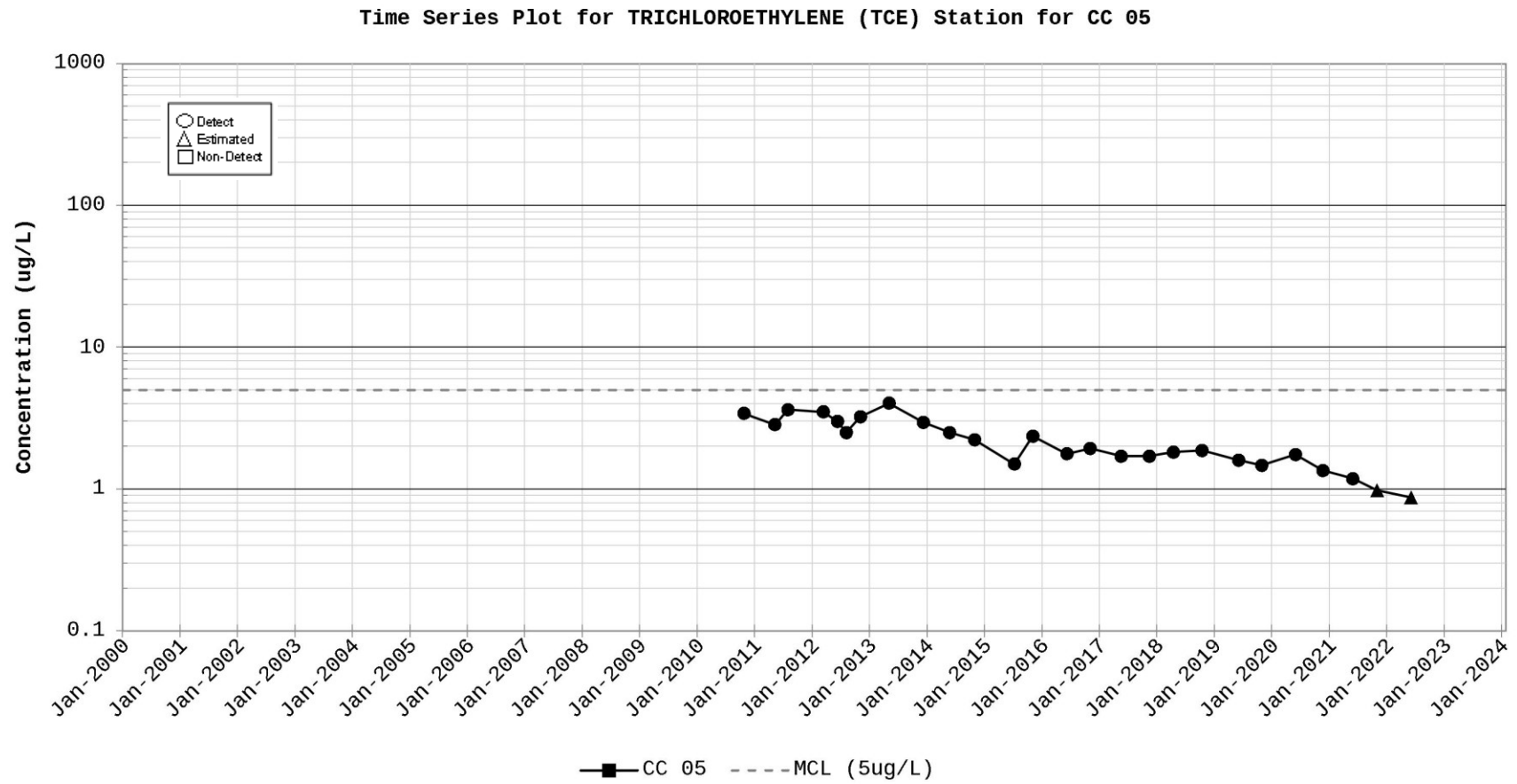


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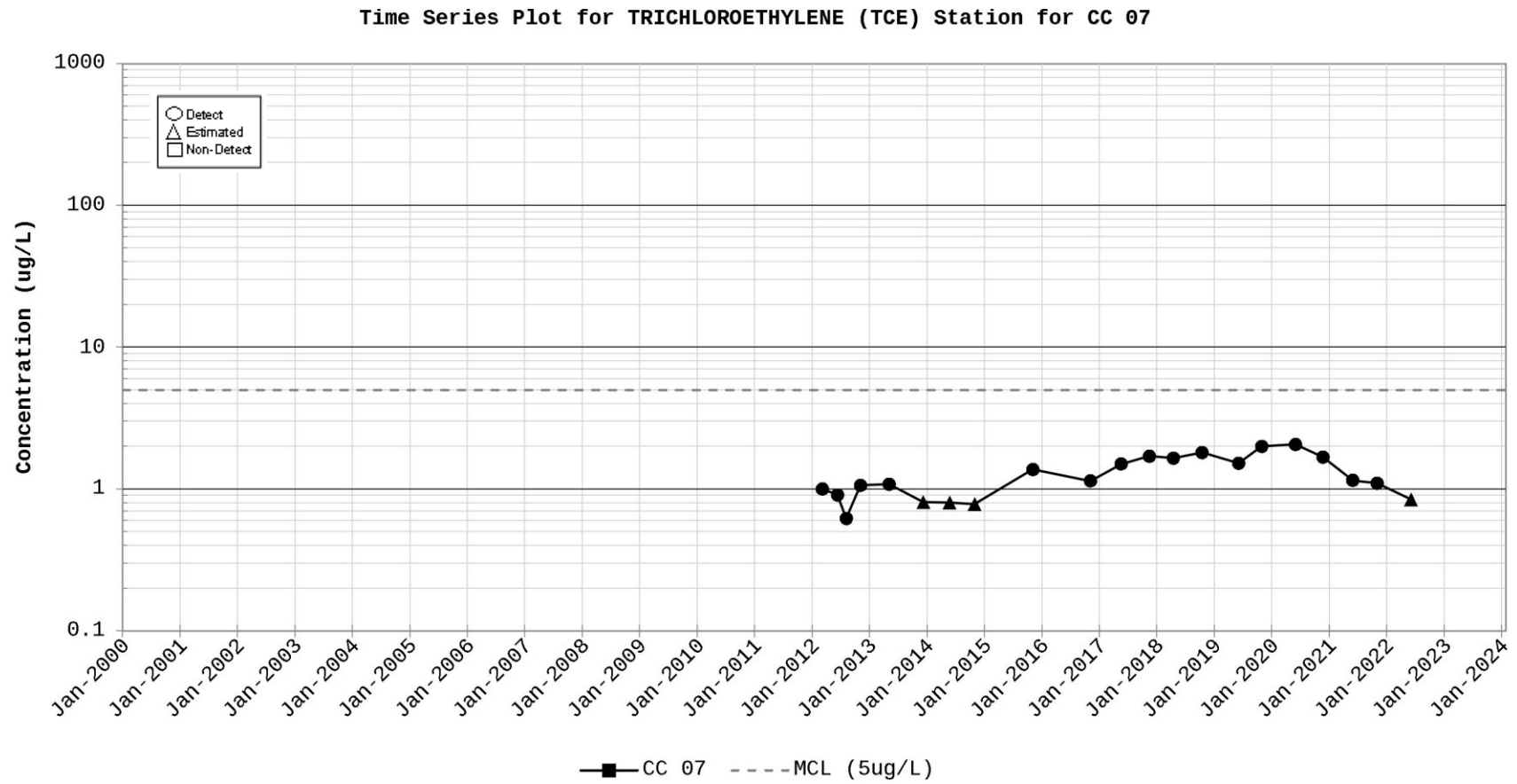


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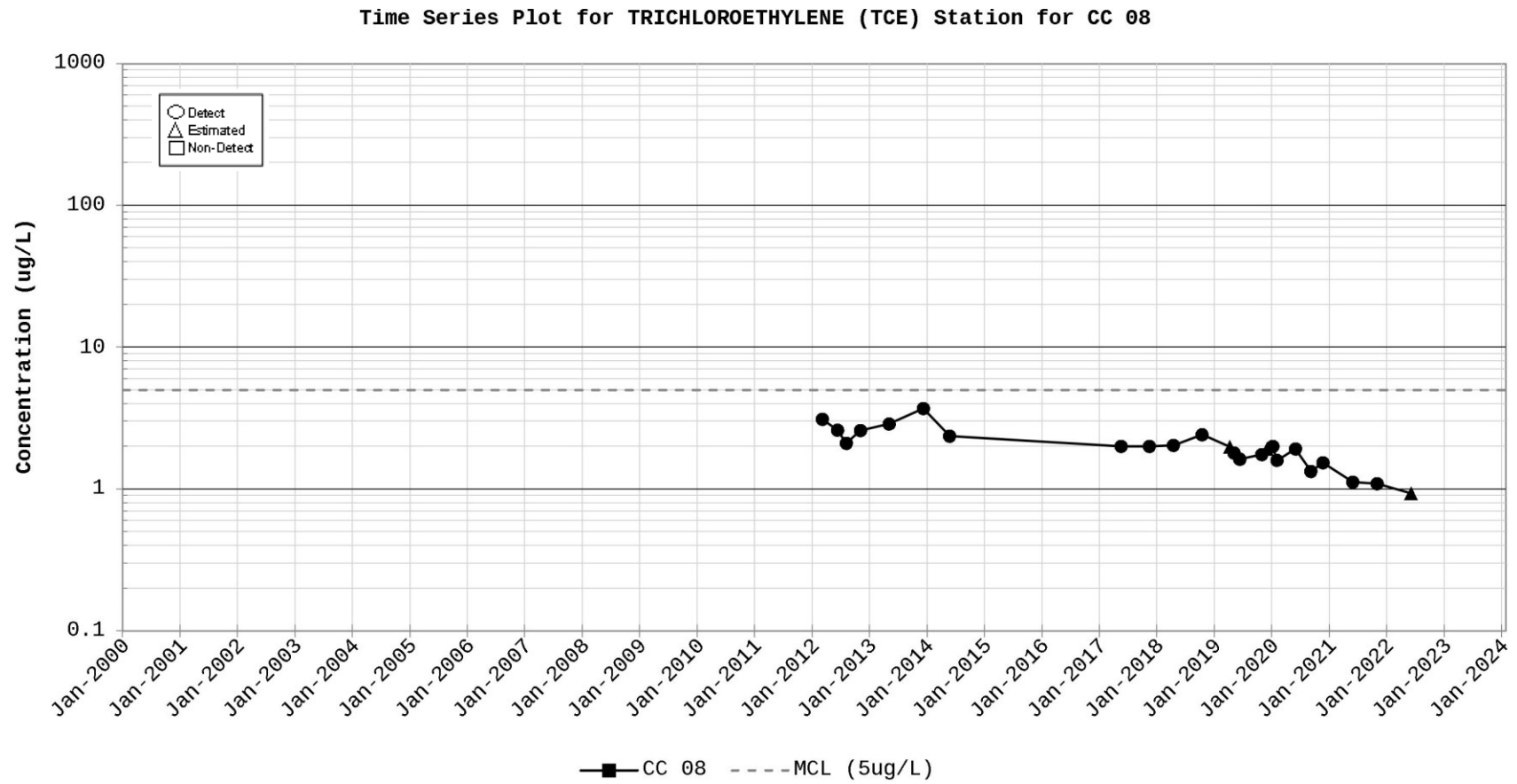


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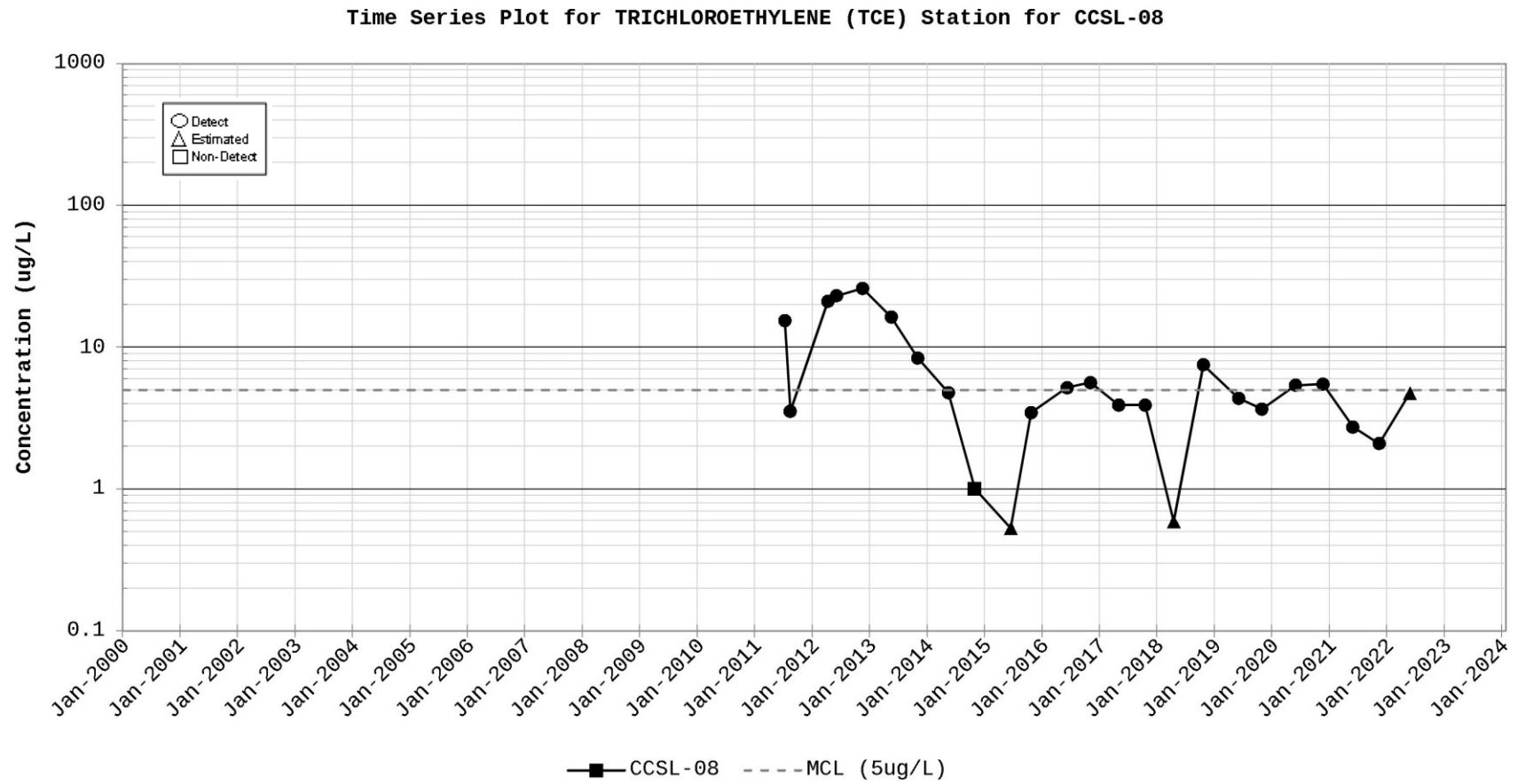


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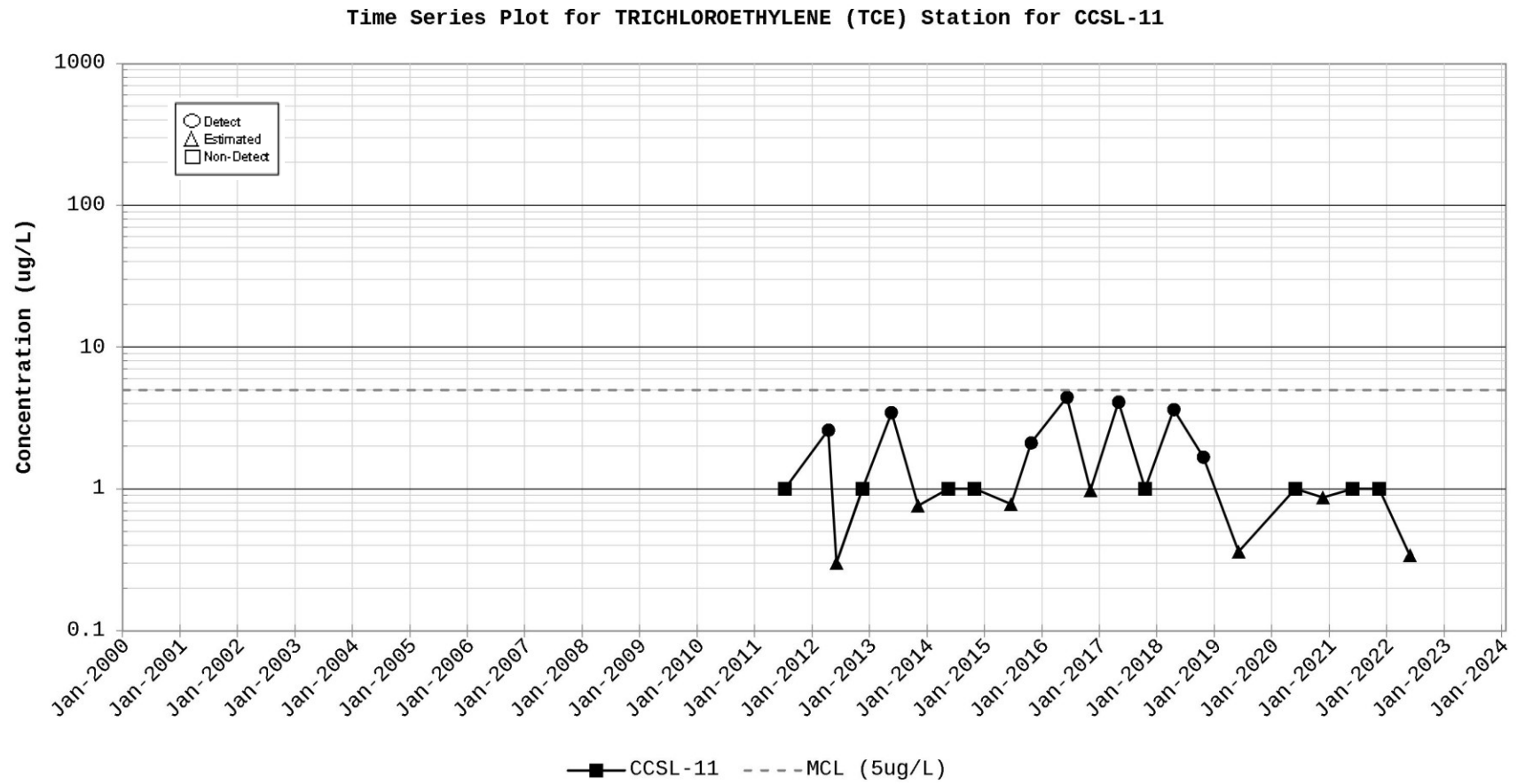


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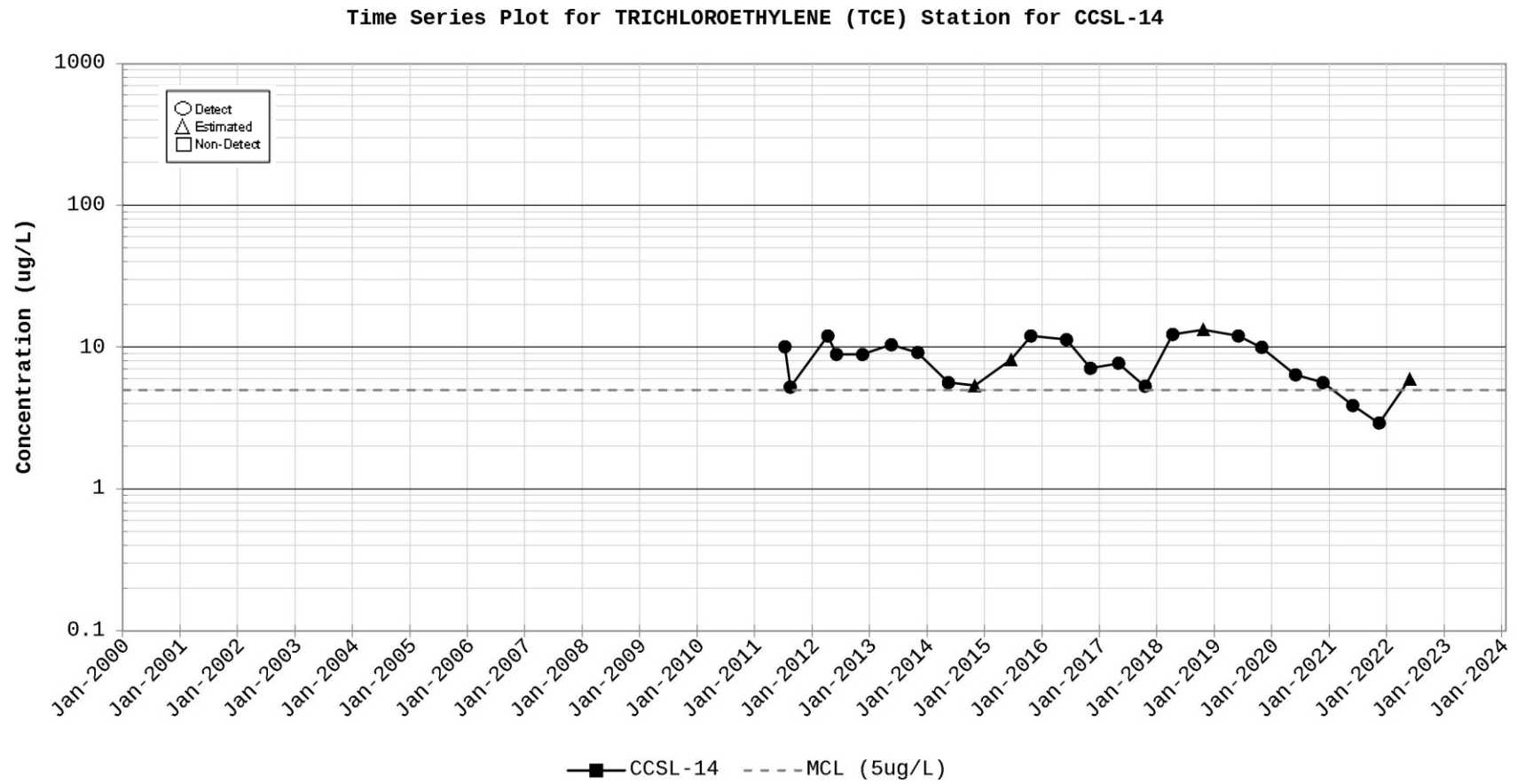


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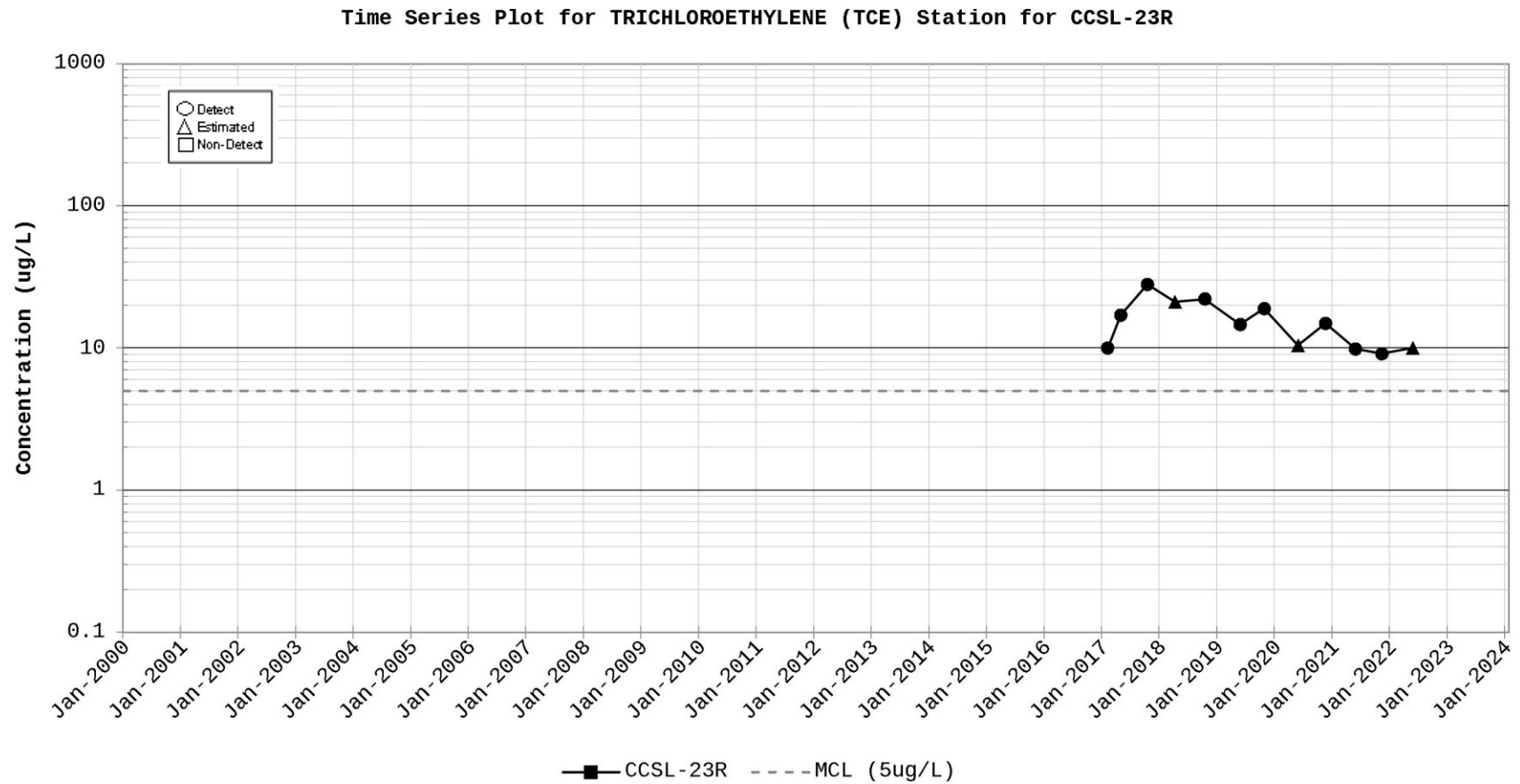


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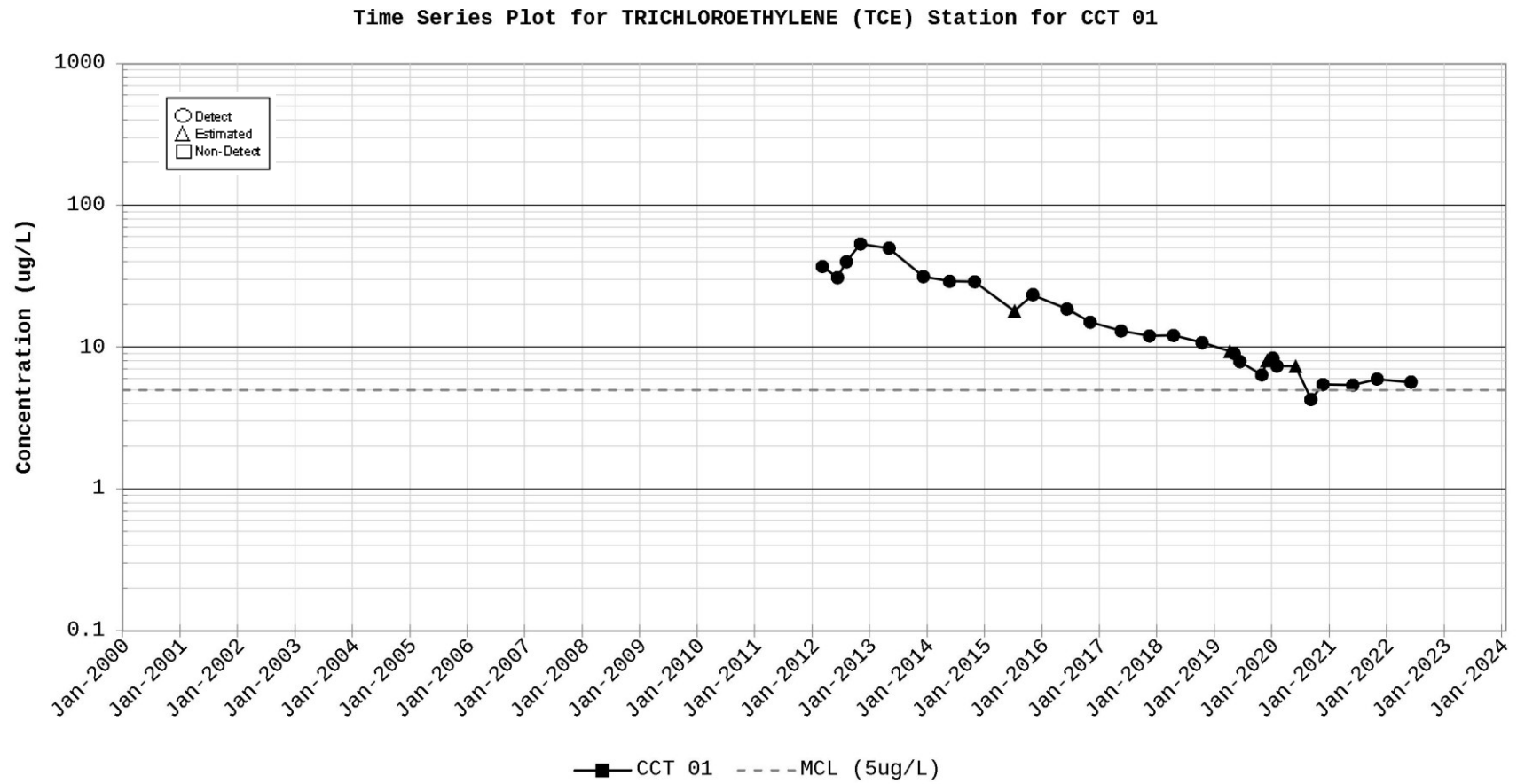


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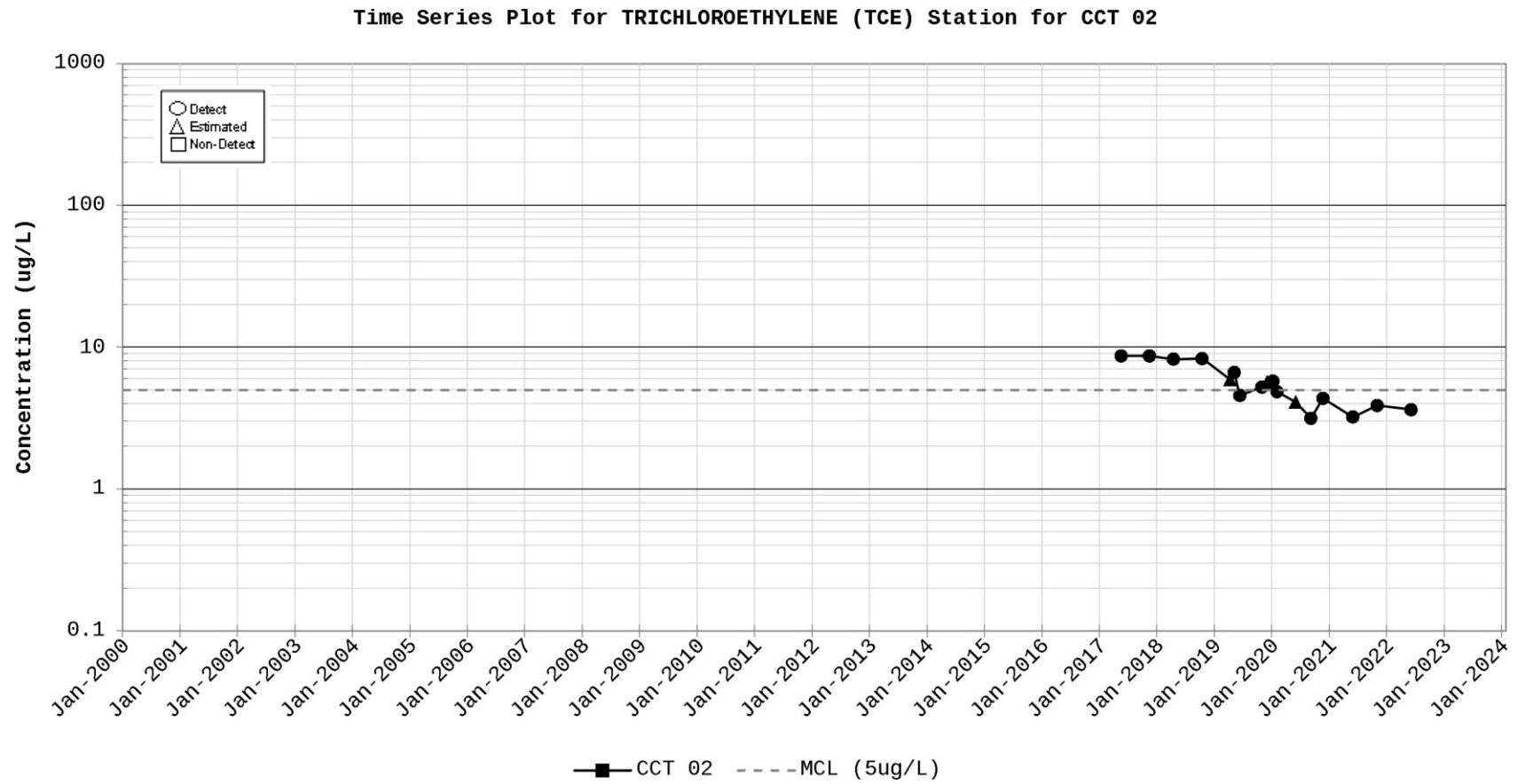


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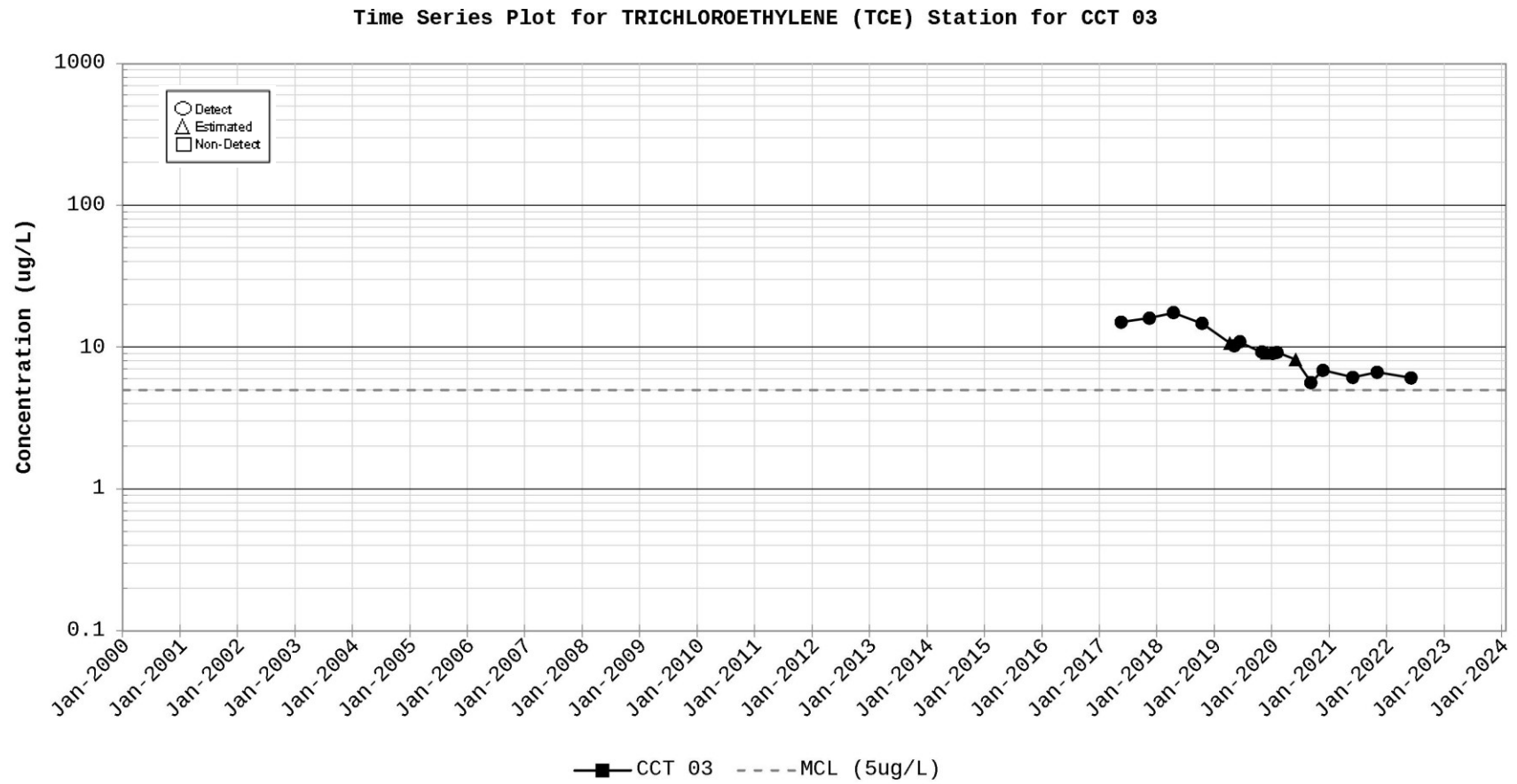


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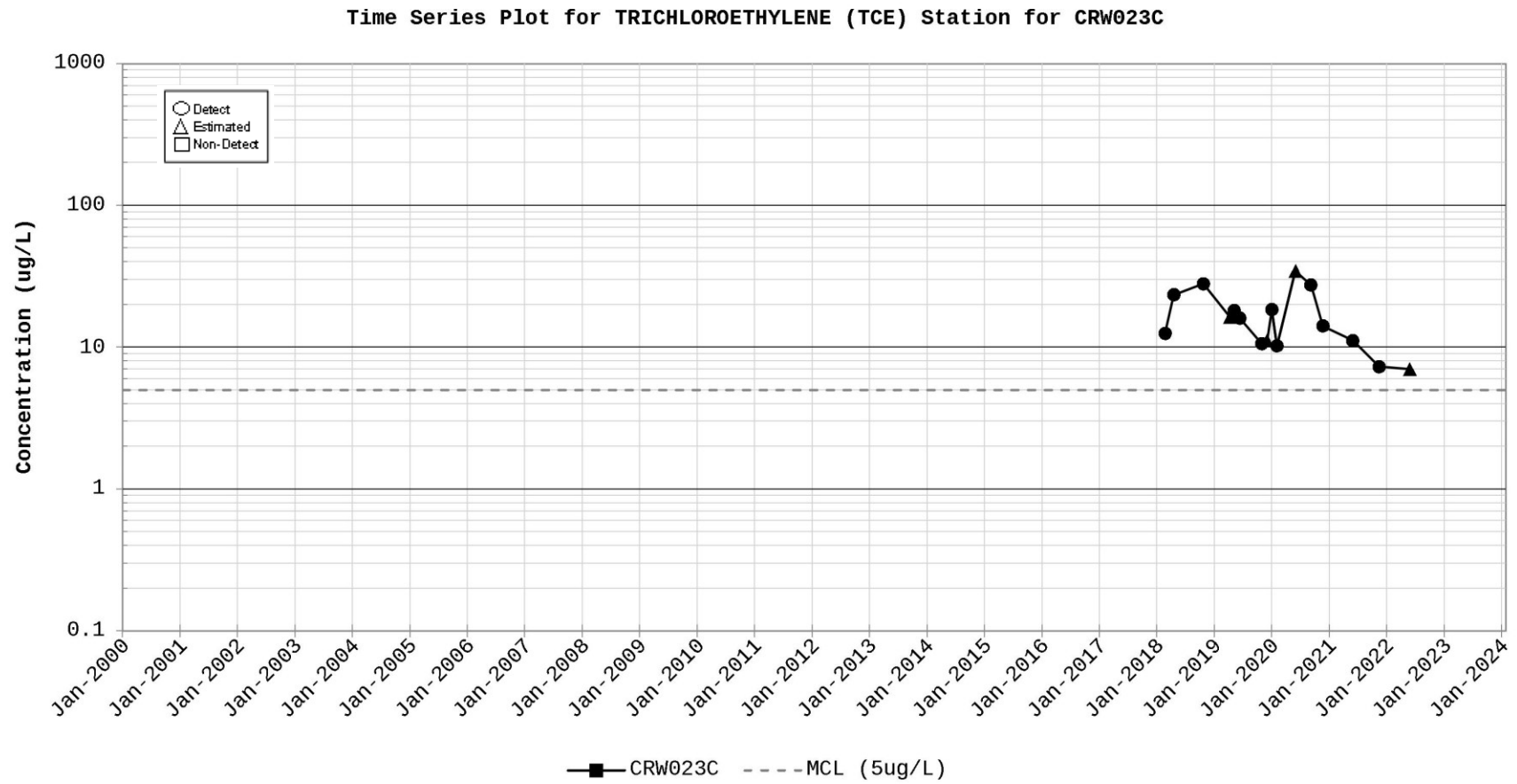


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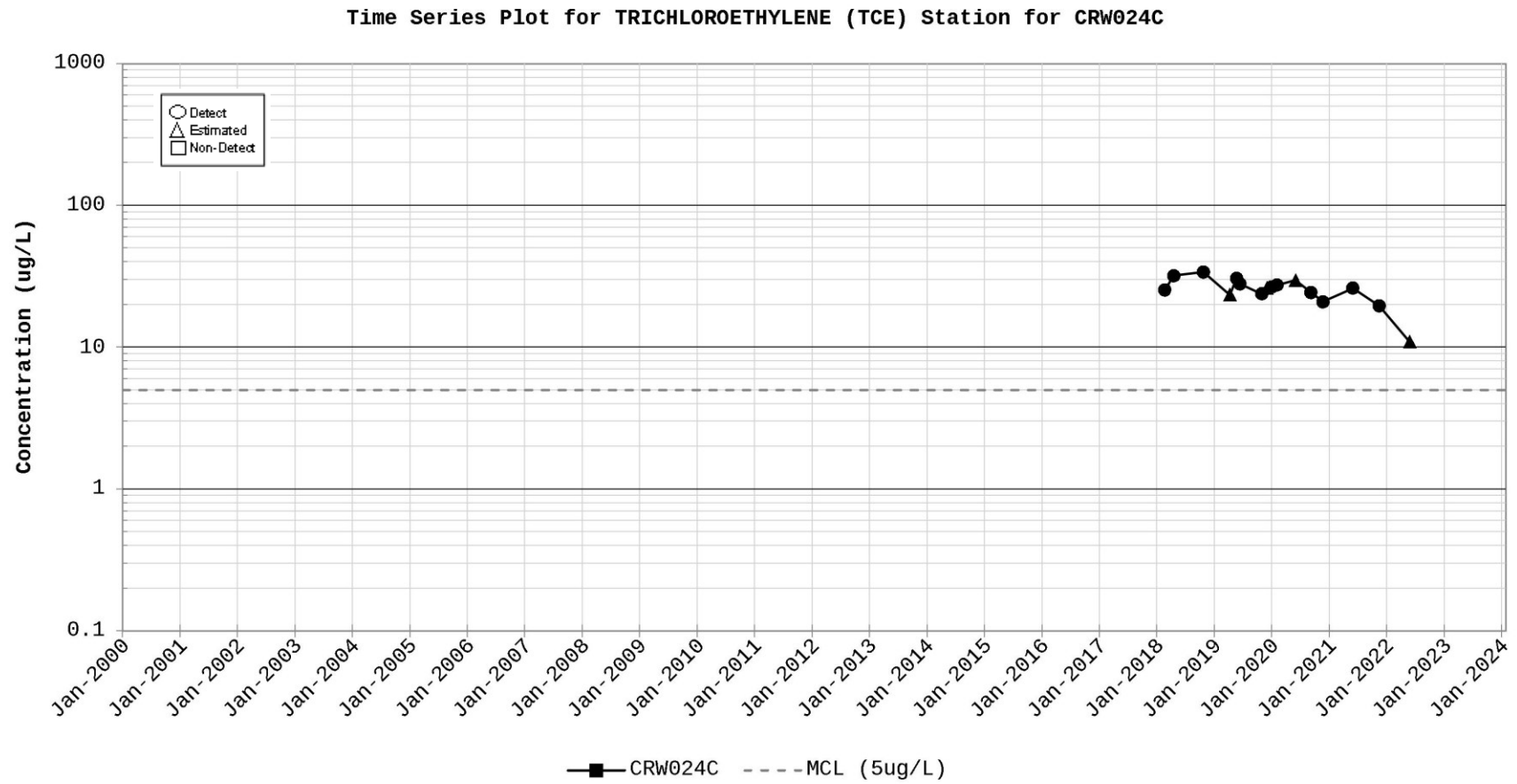


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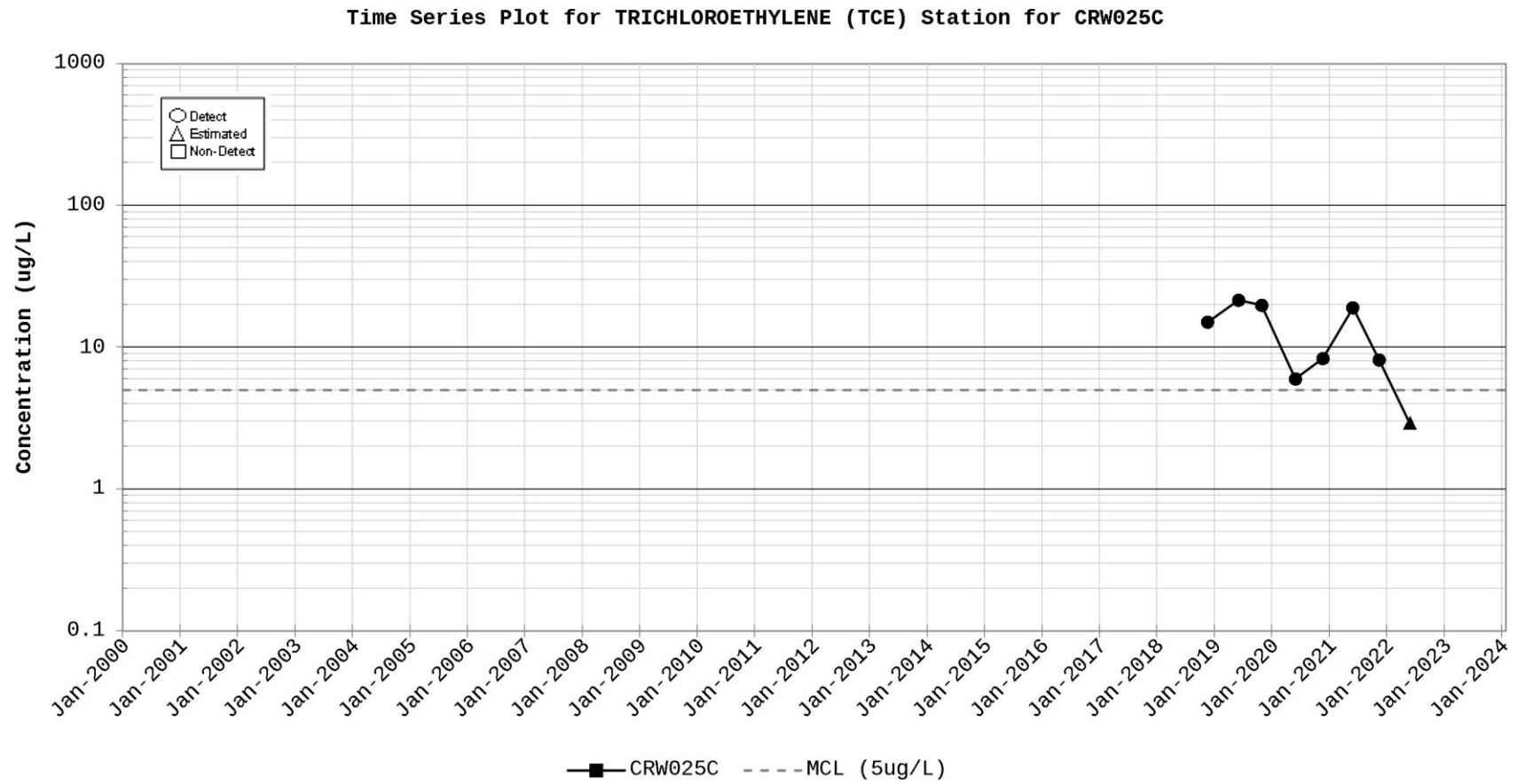


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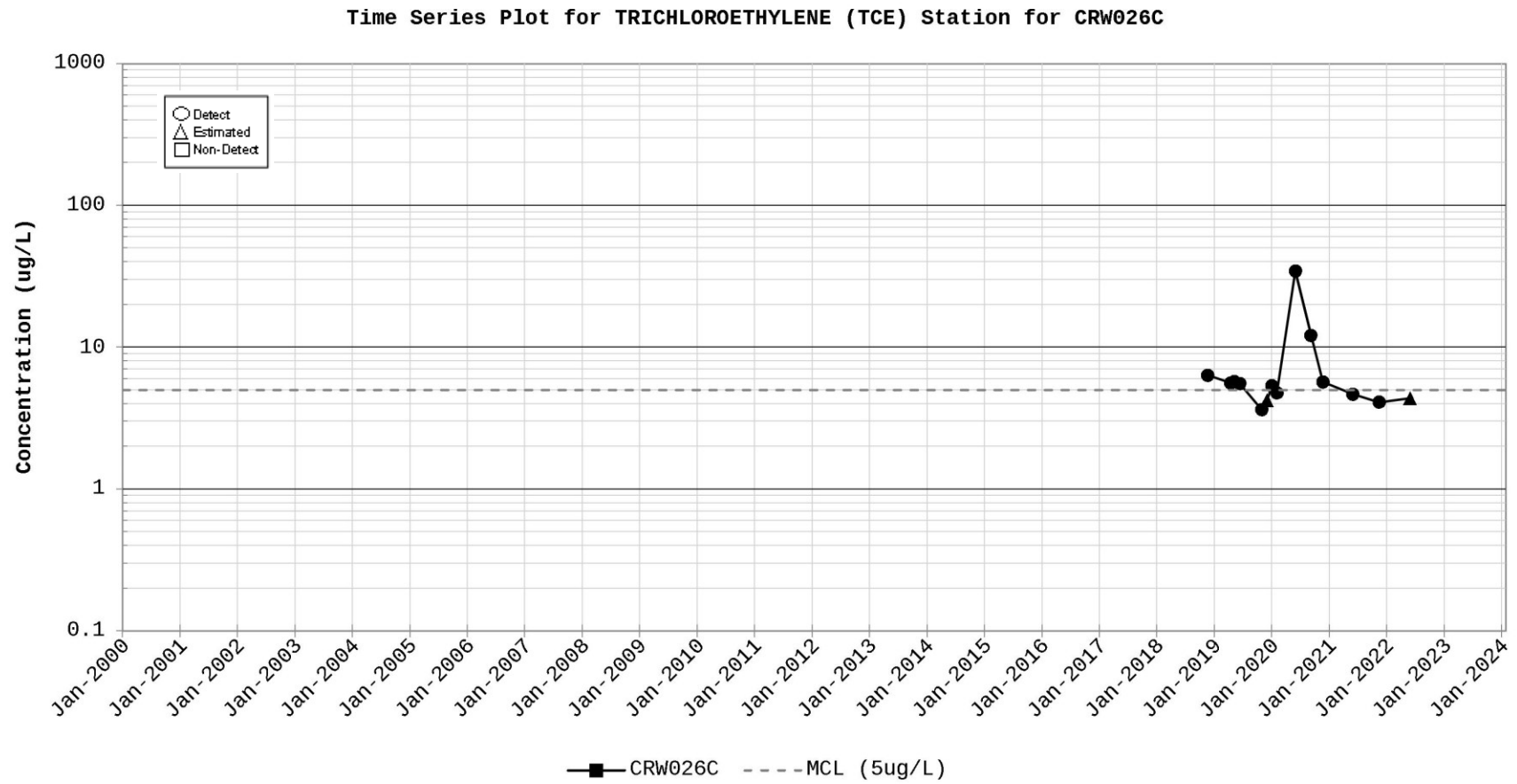


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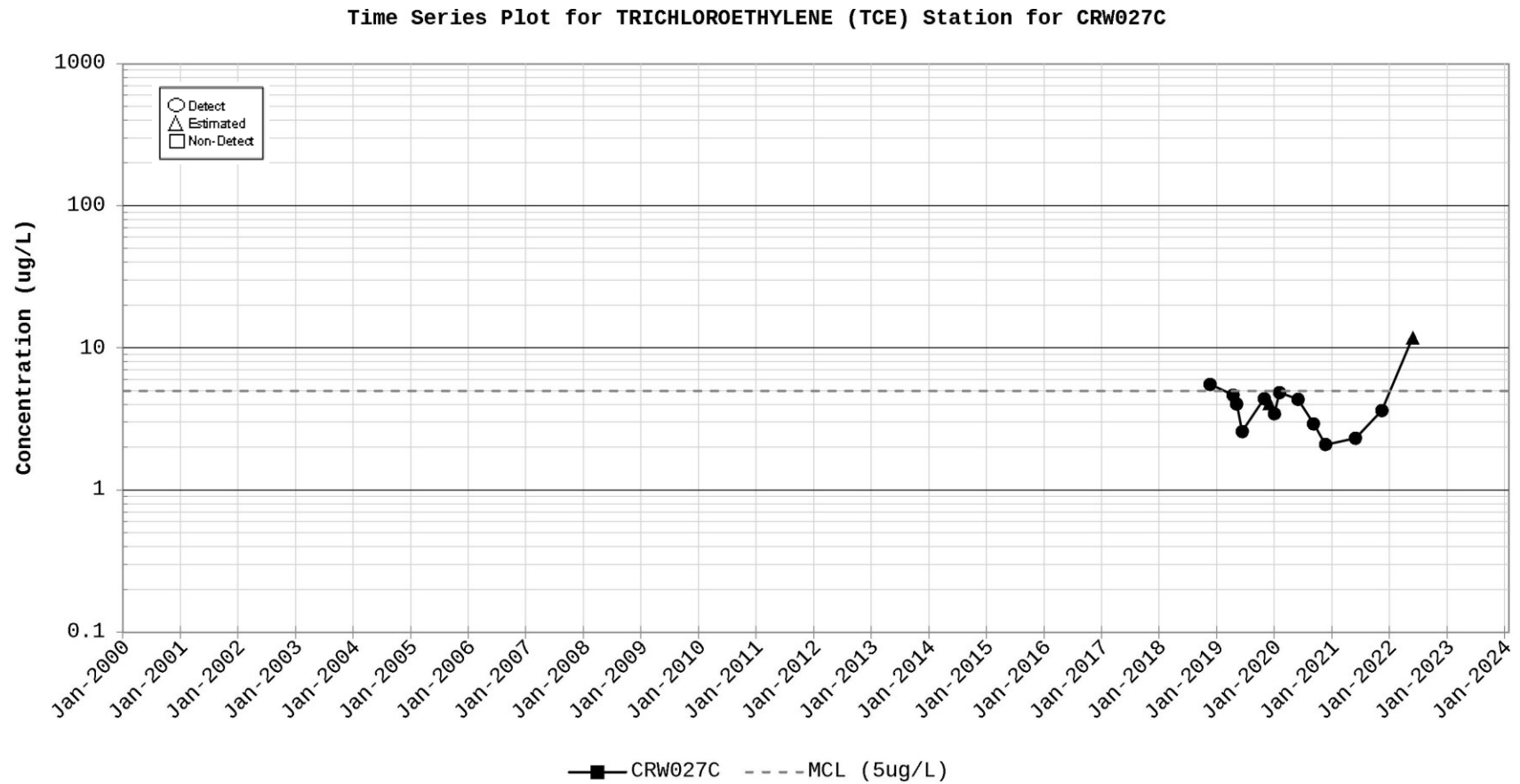


Figure C-116.

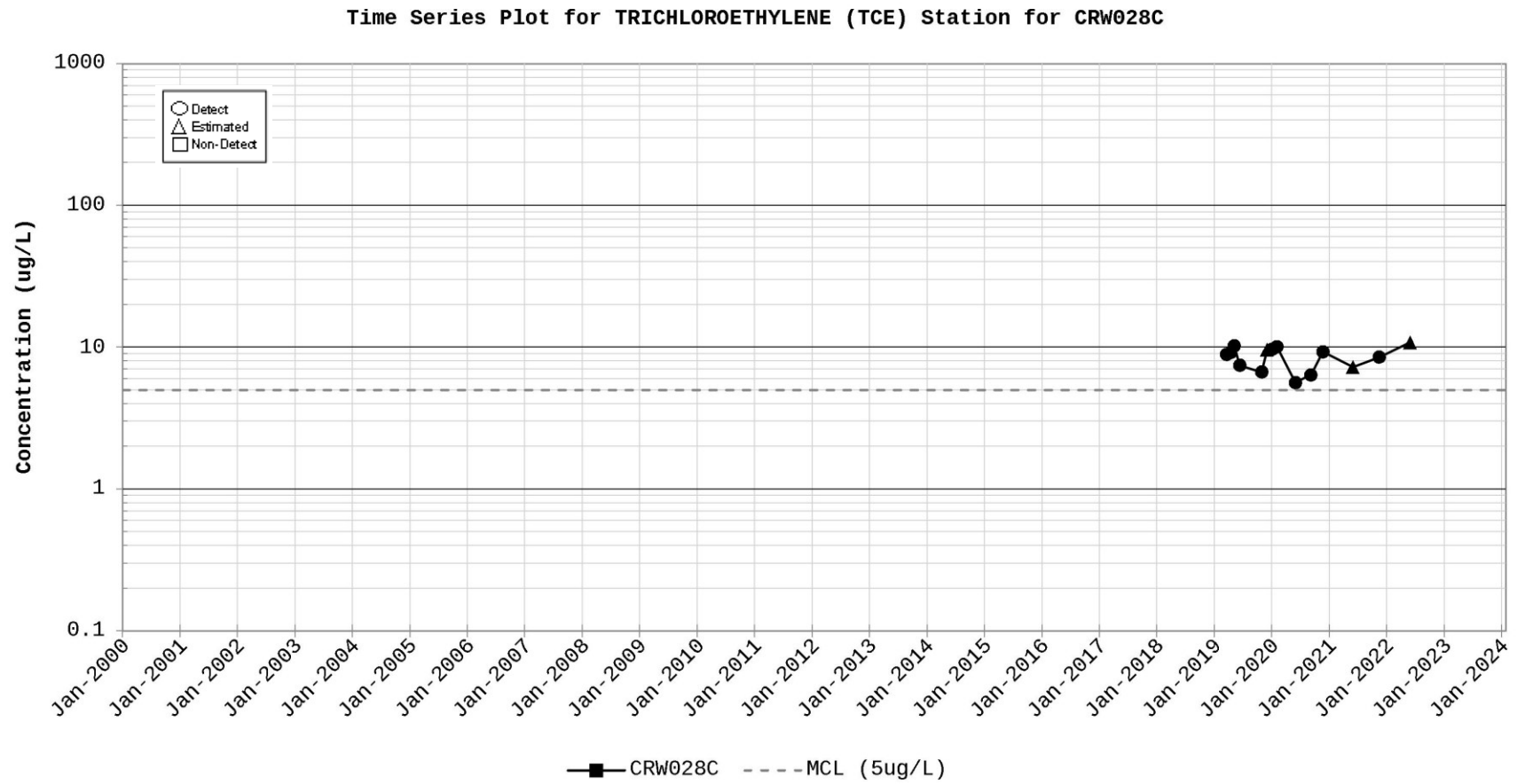


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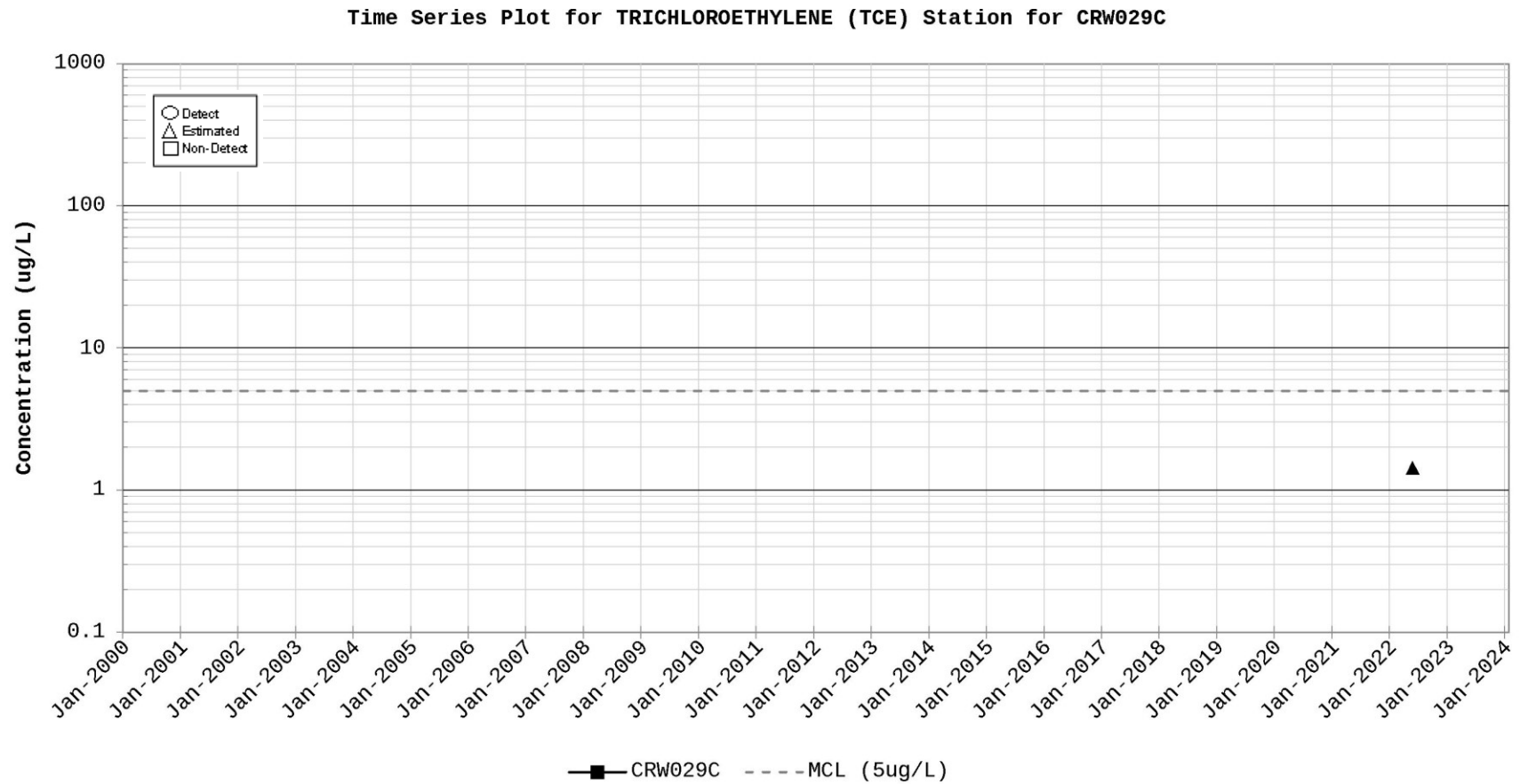


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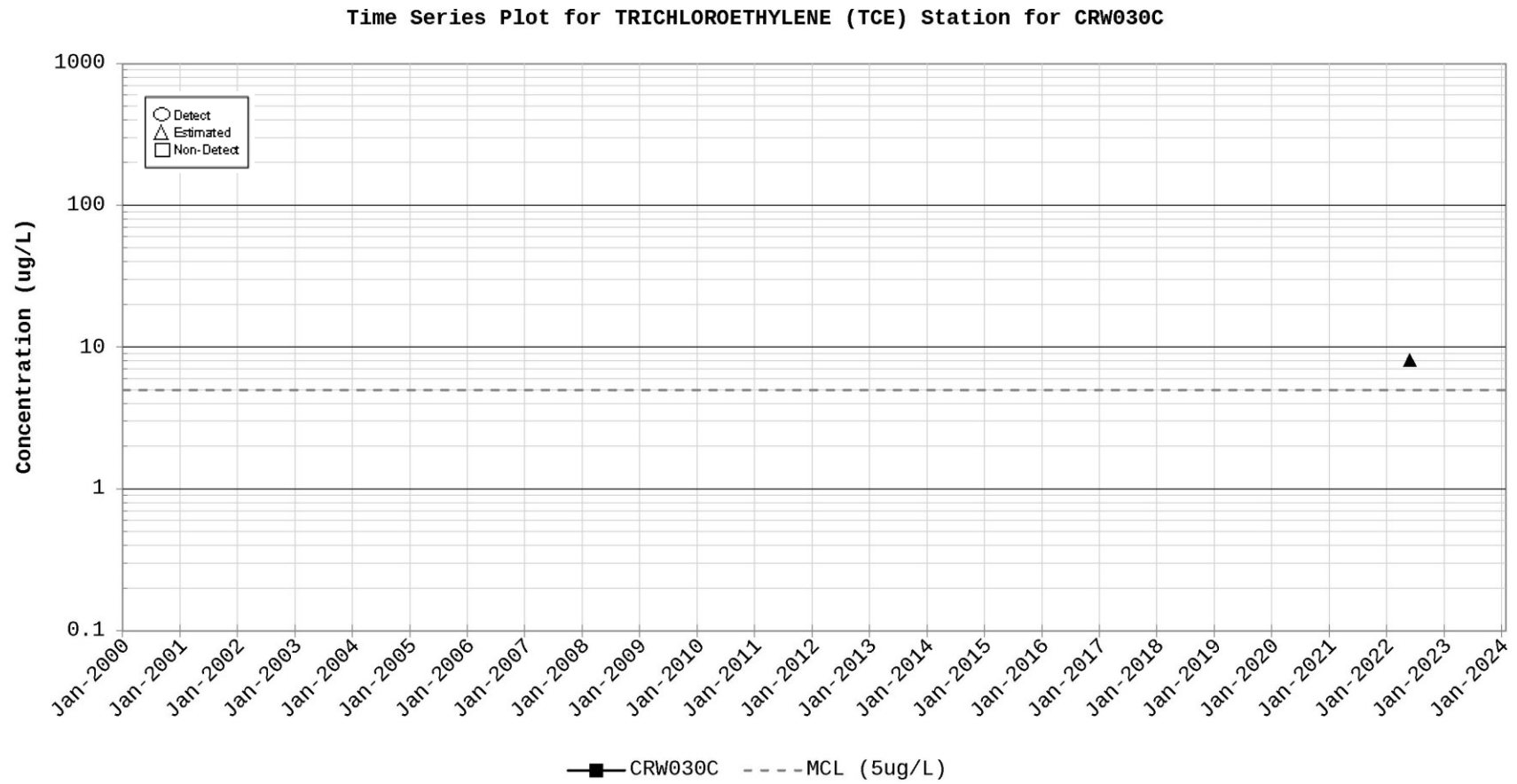


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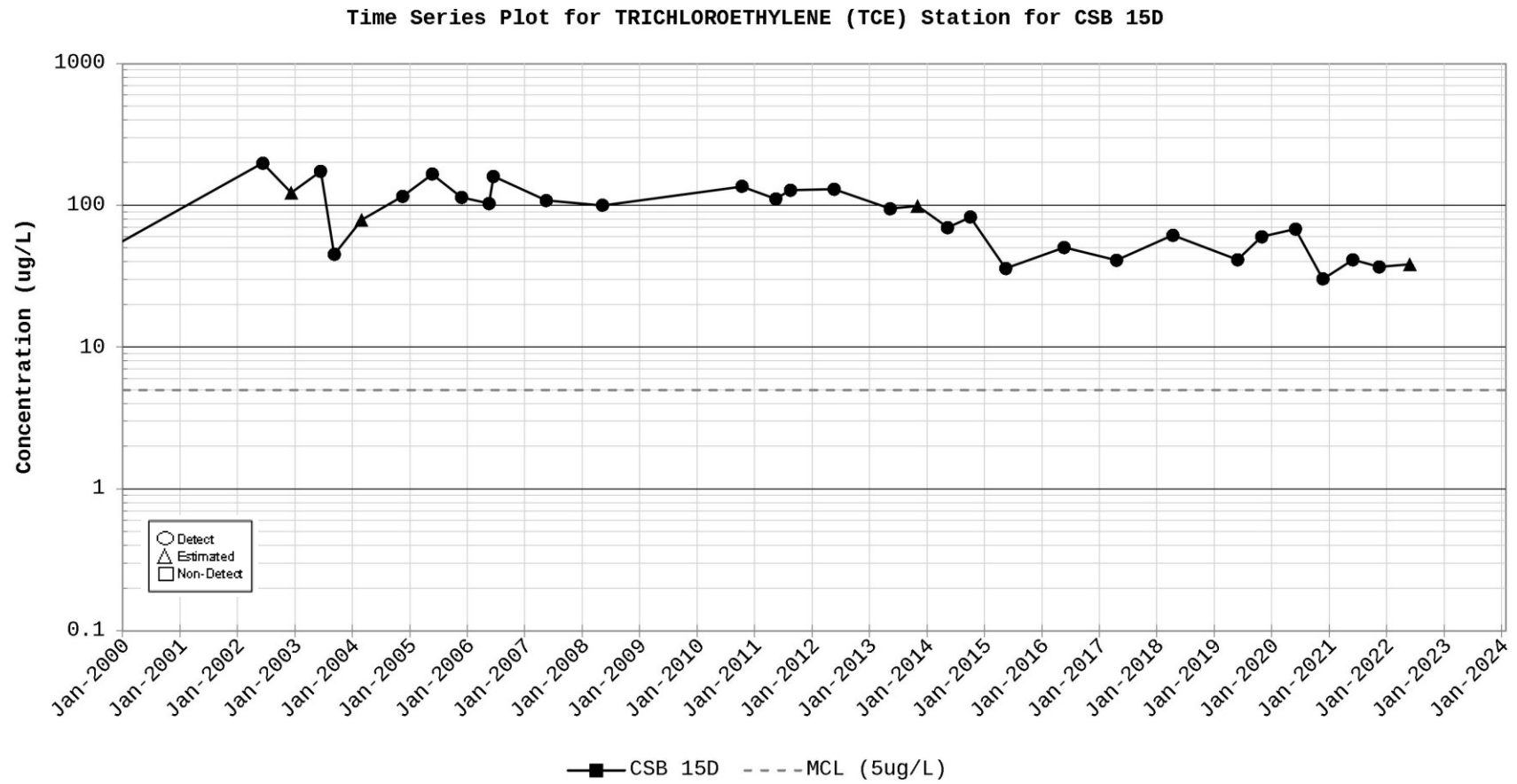


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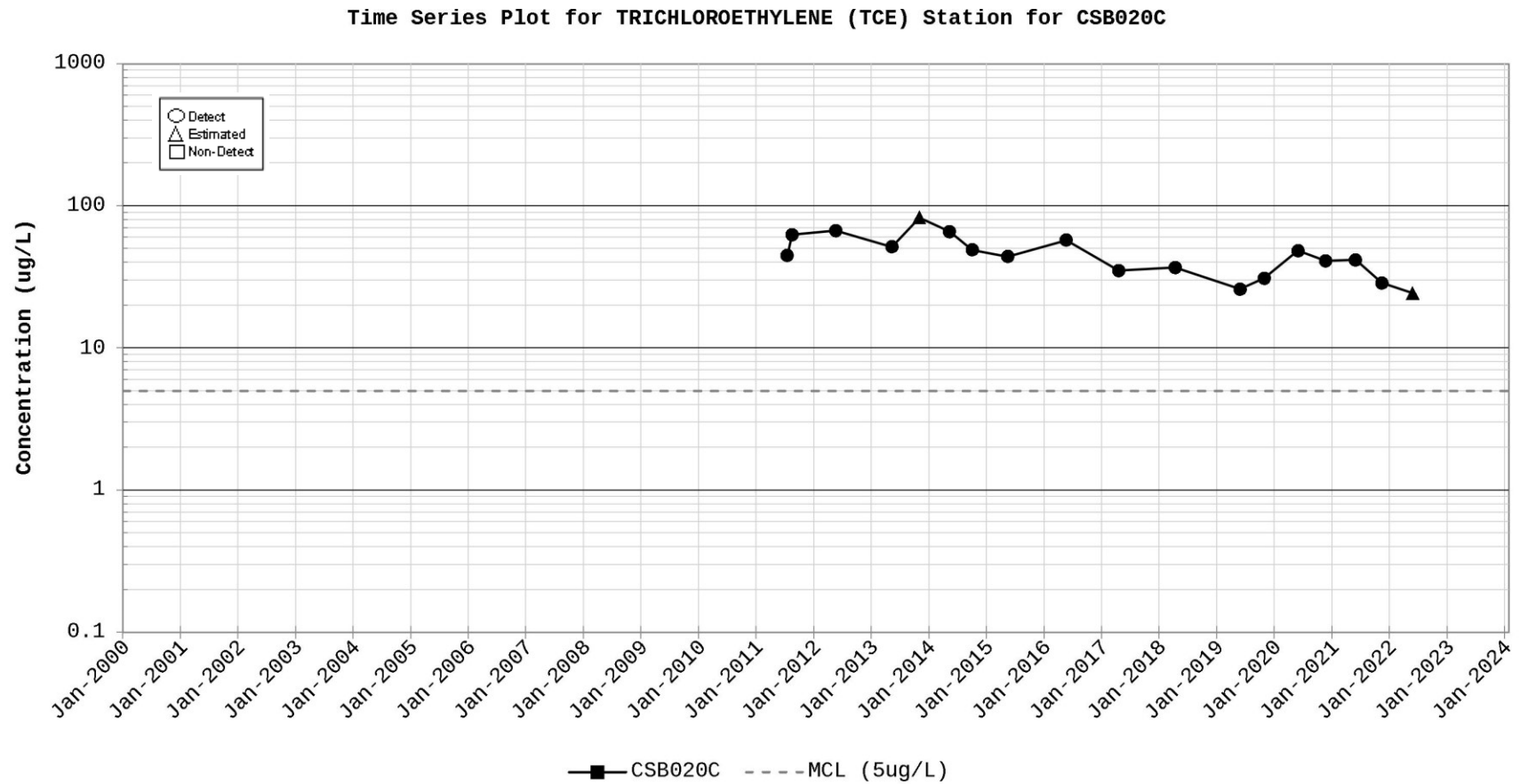


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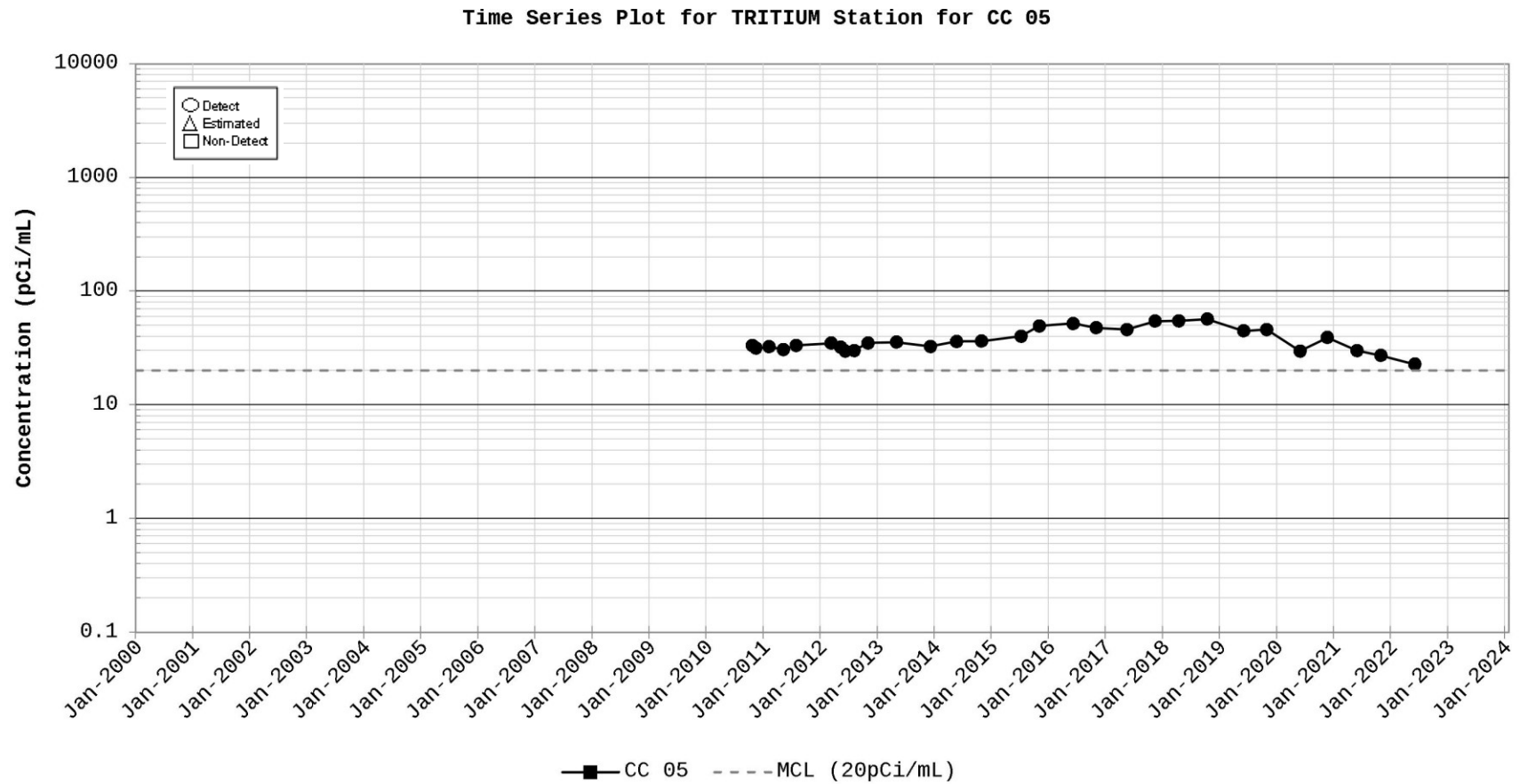


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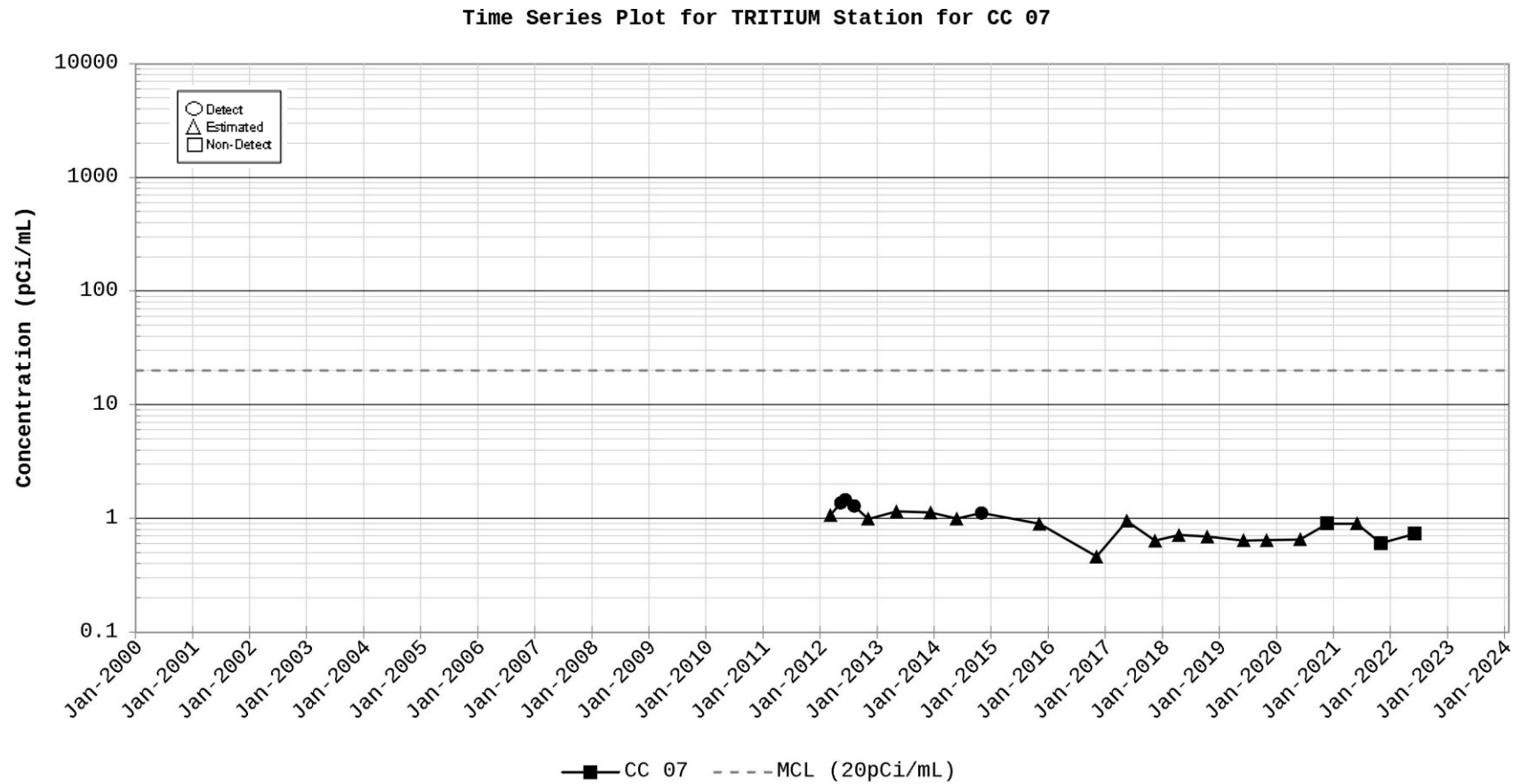


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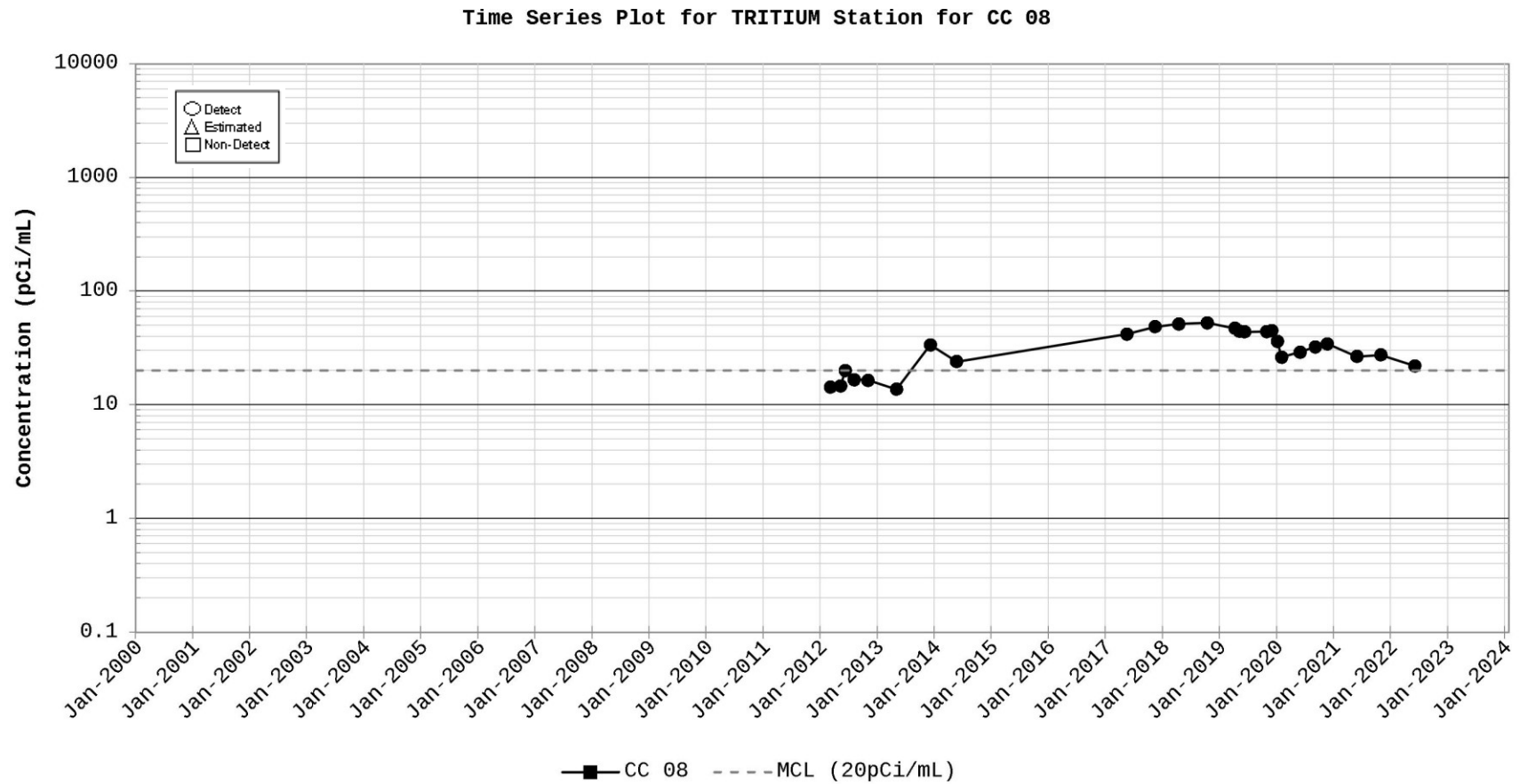


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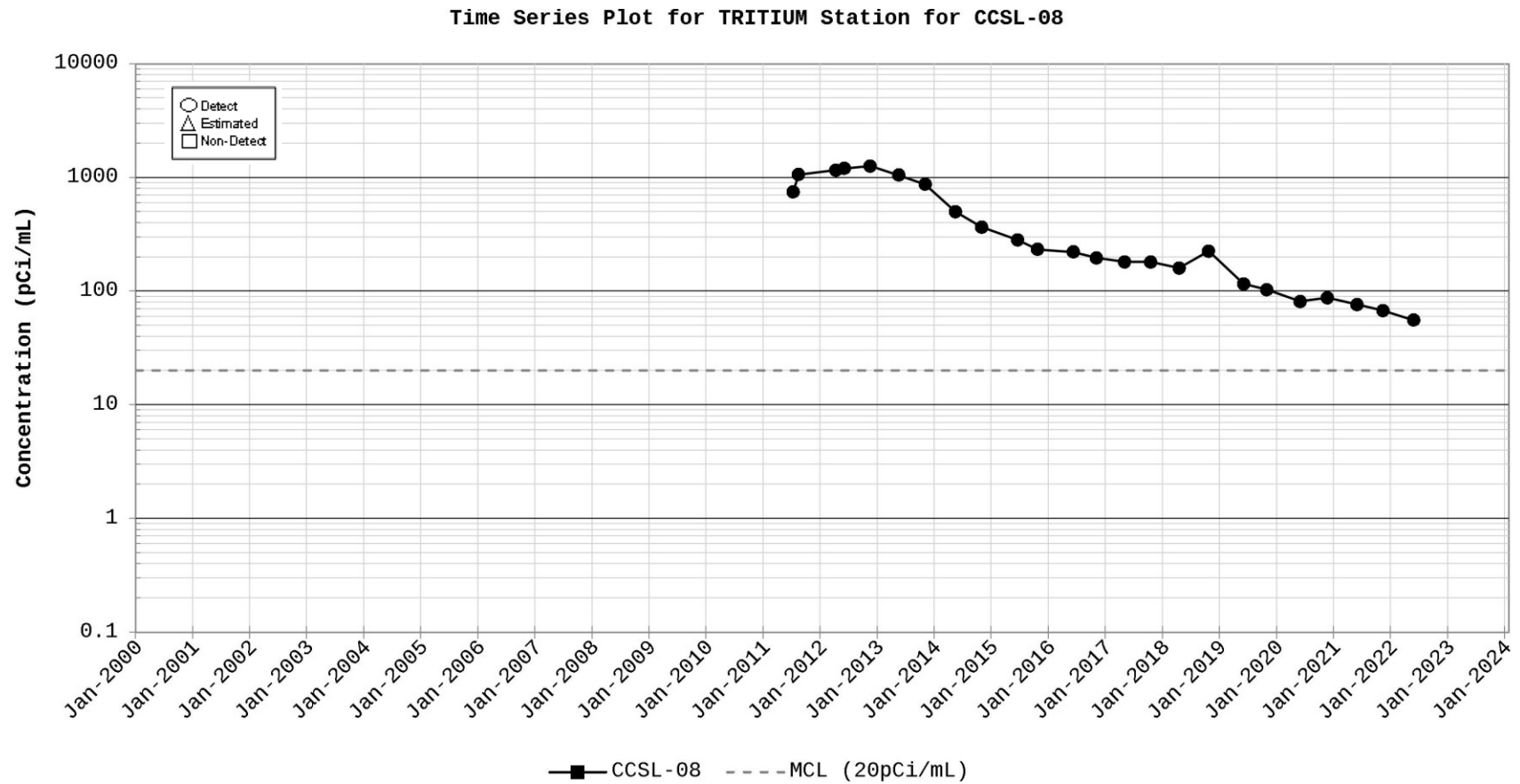


Figure C-125.

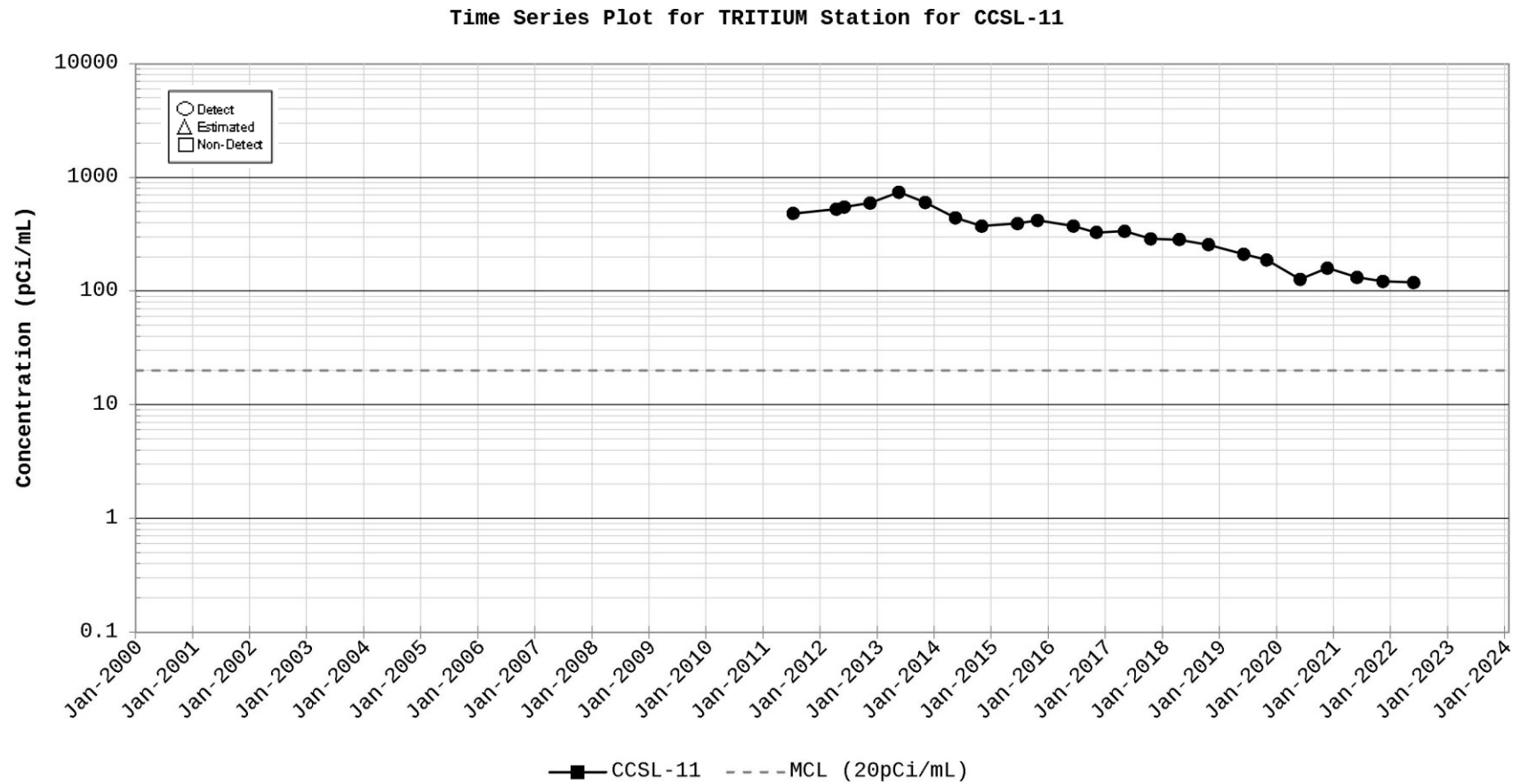


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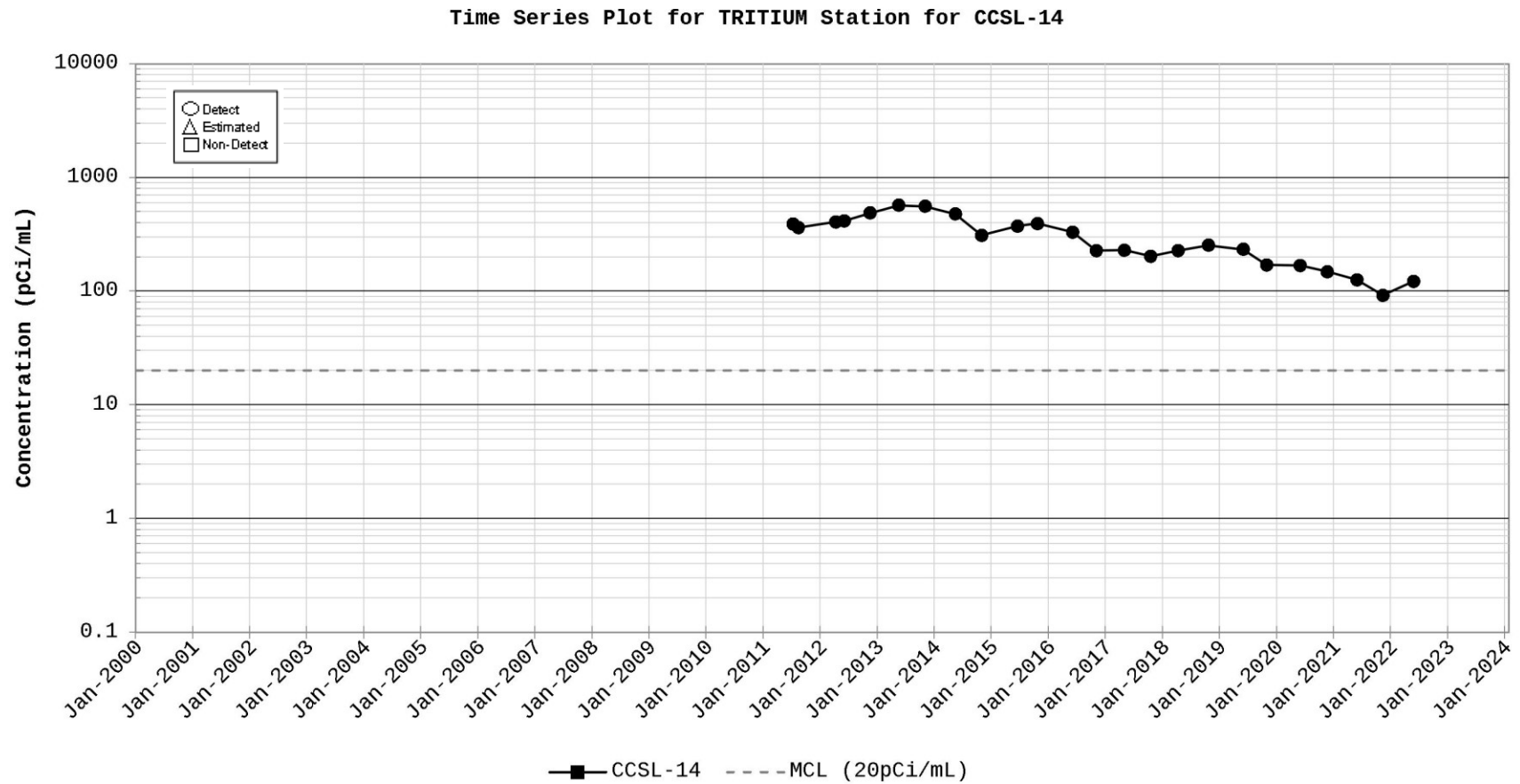


Figure C-127.

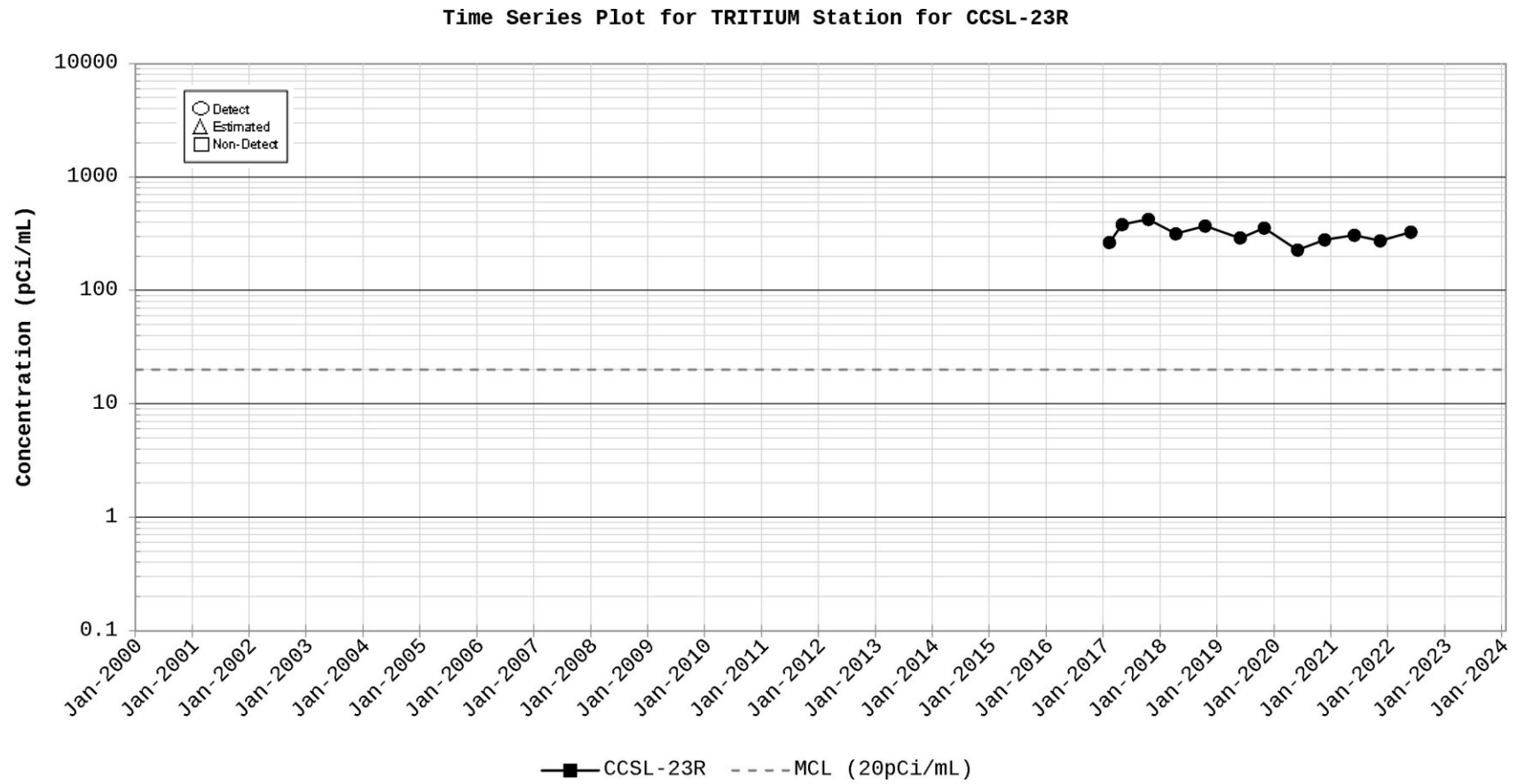


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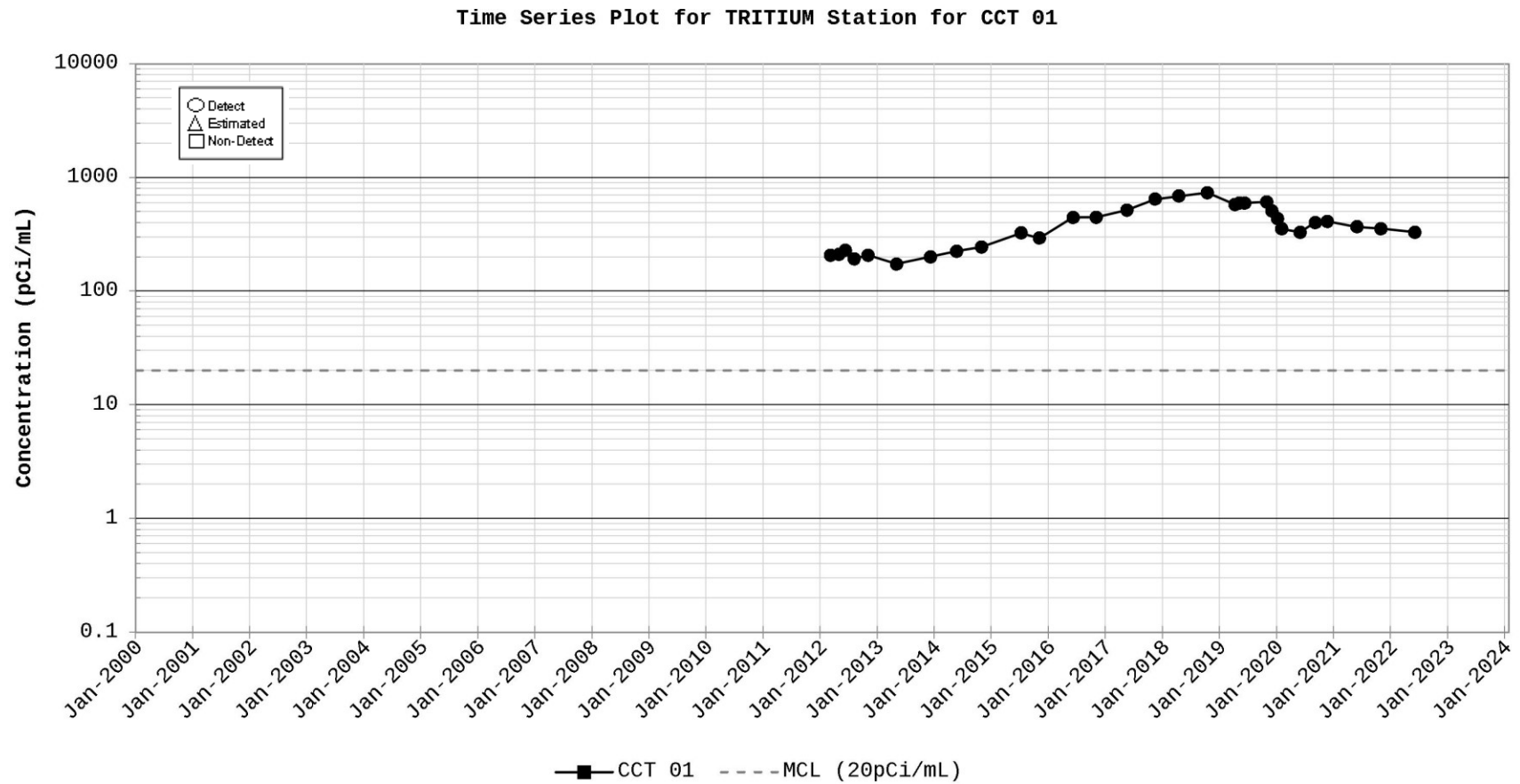


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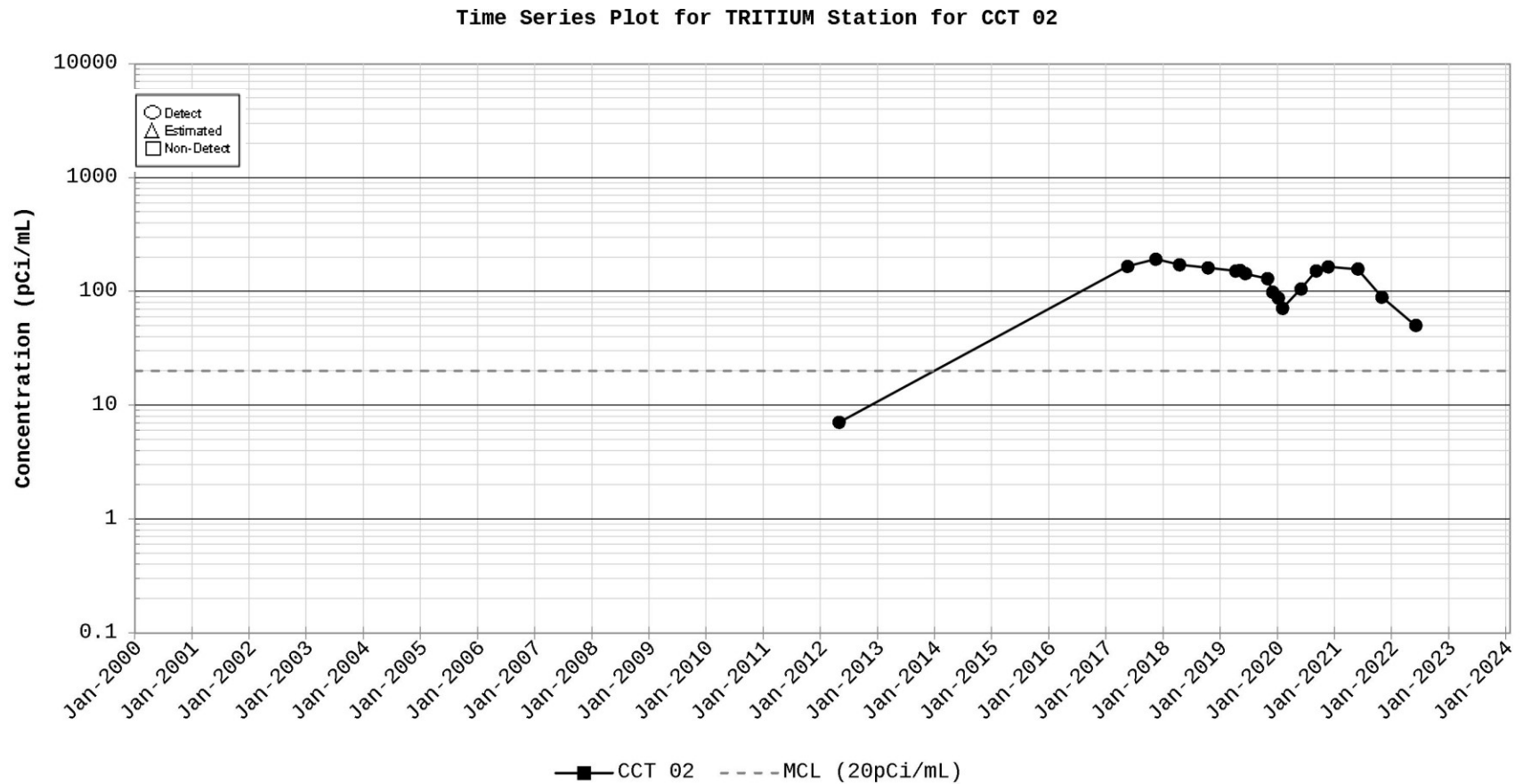


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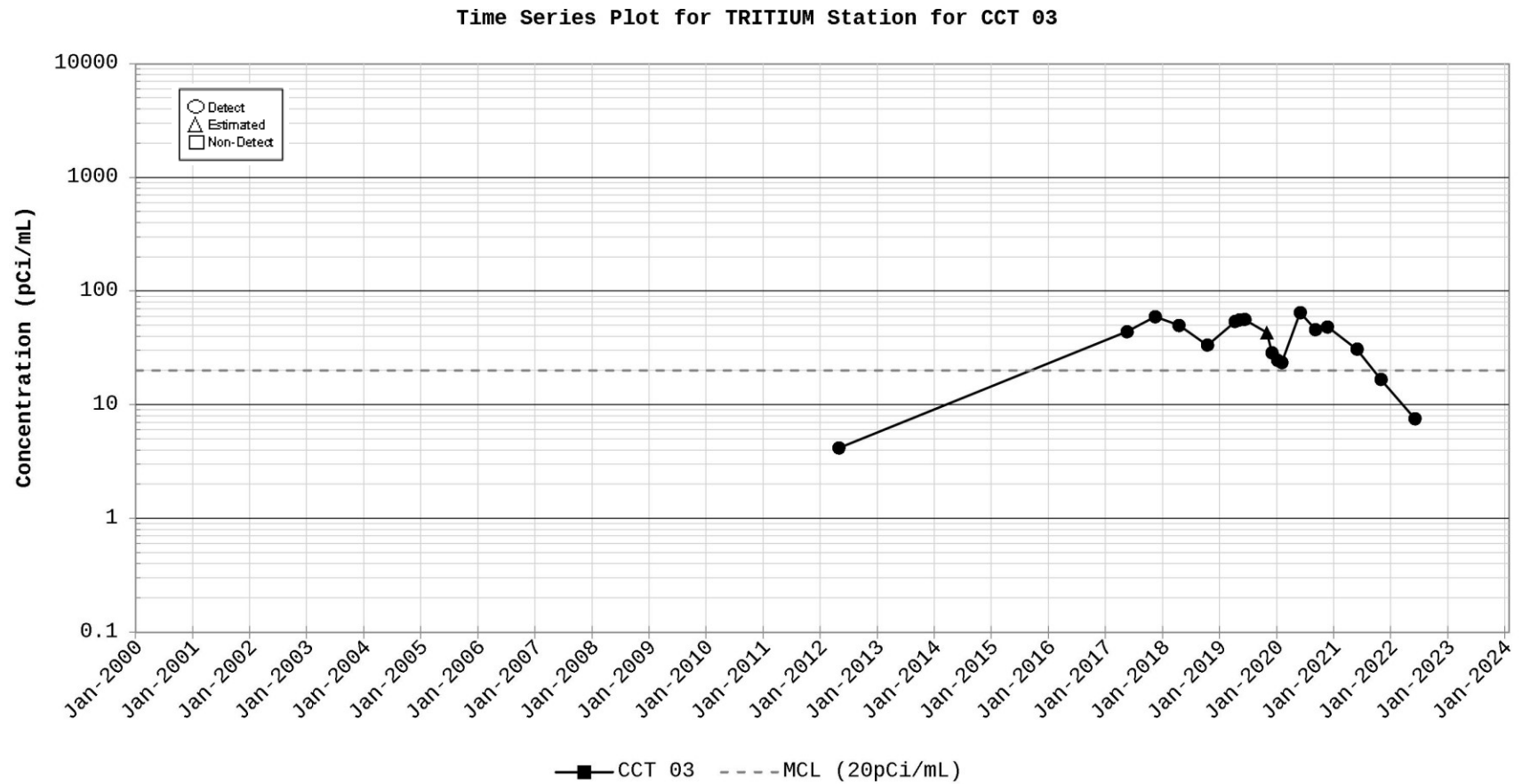


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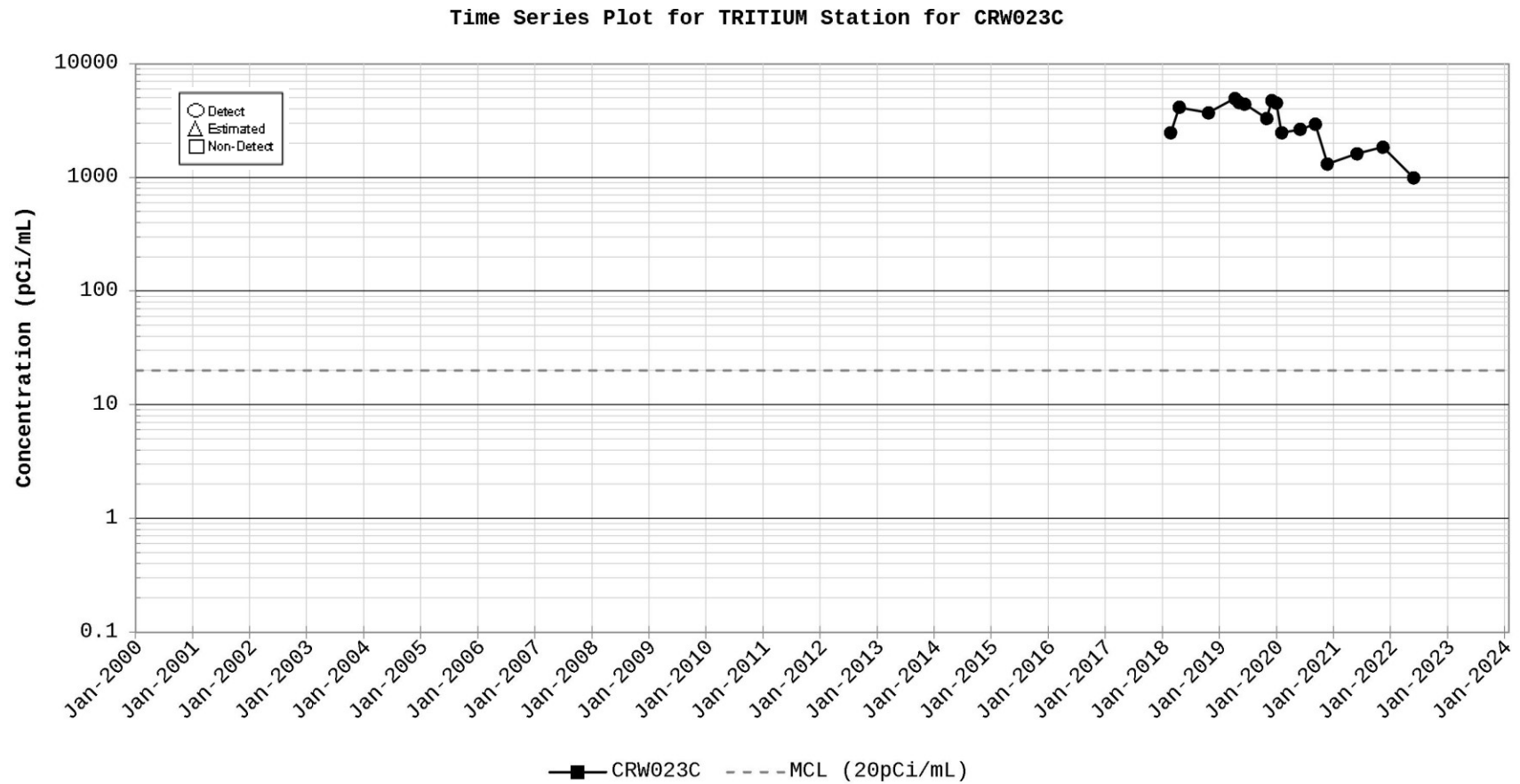


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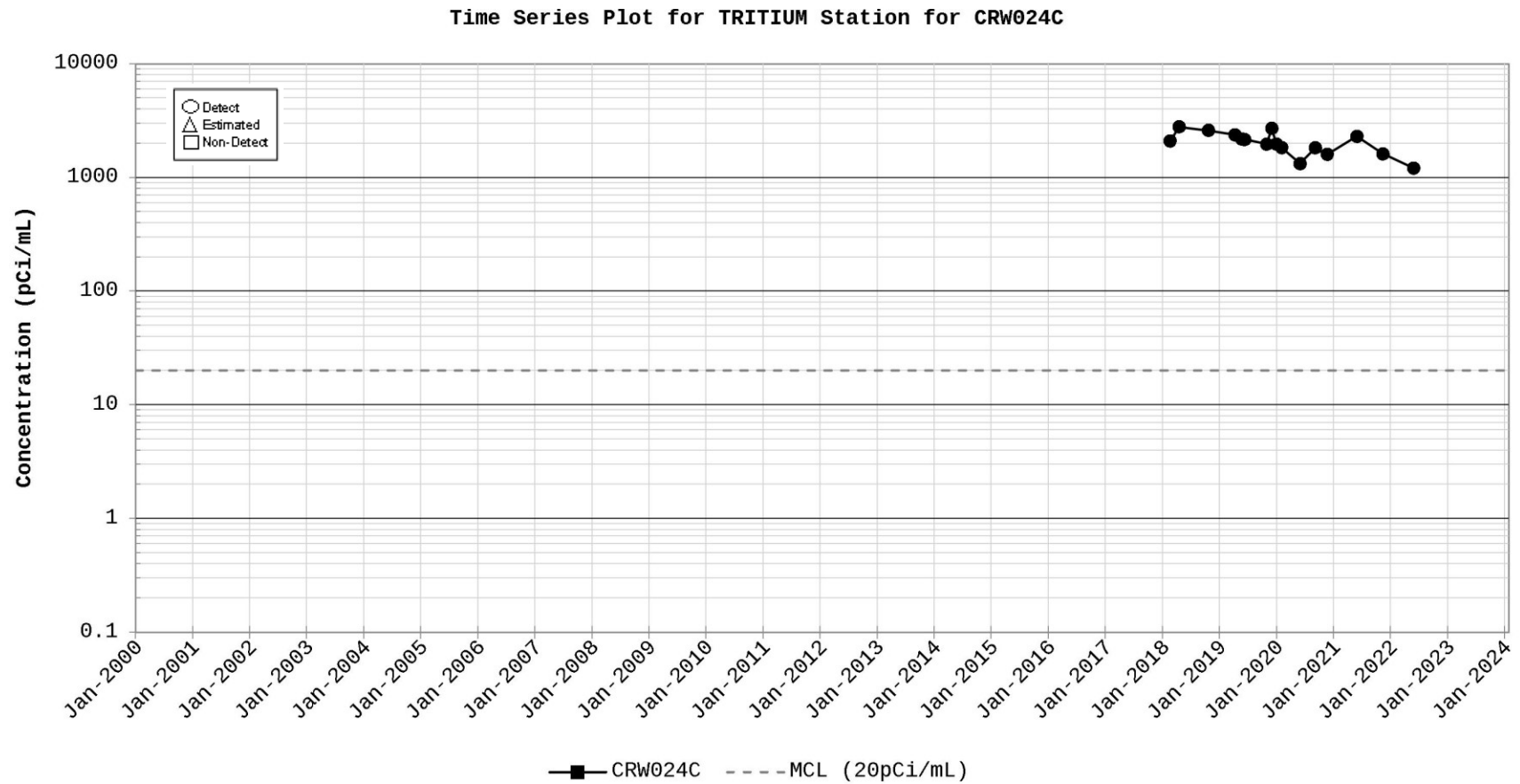


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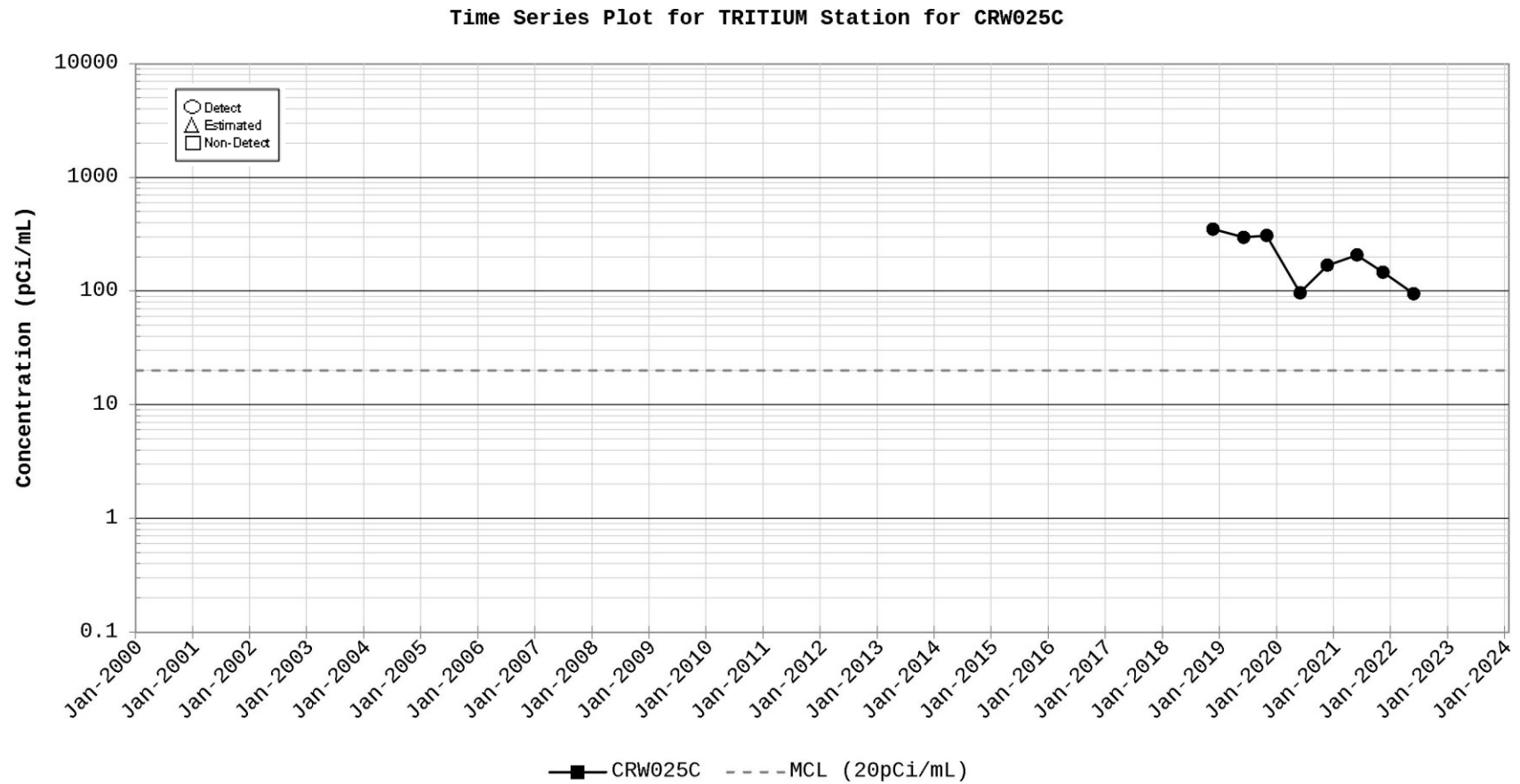


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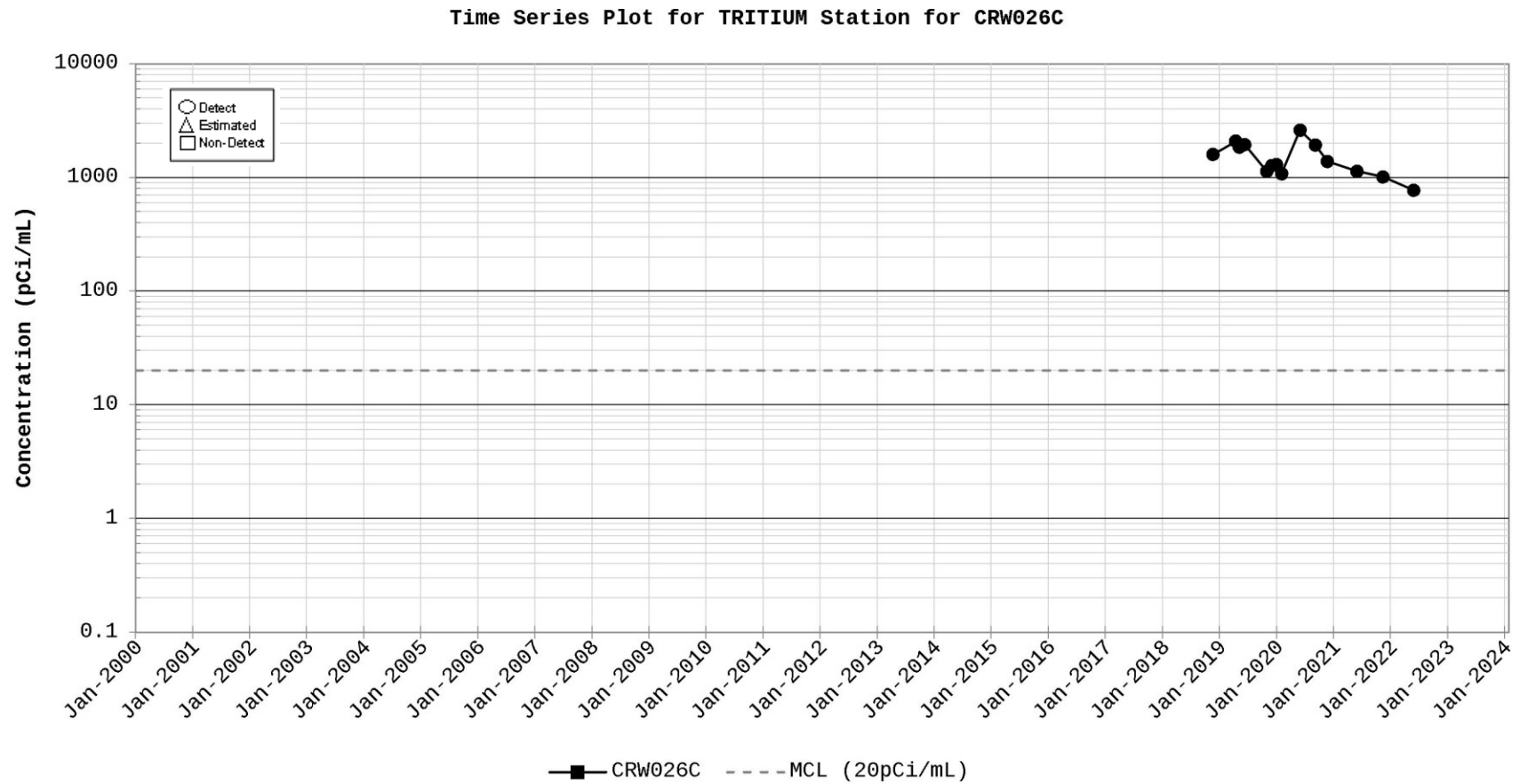


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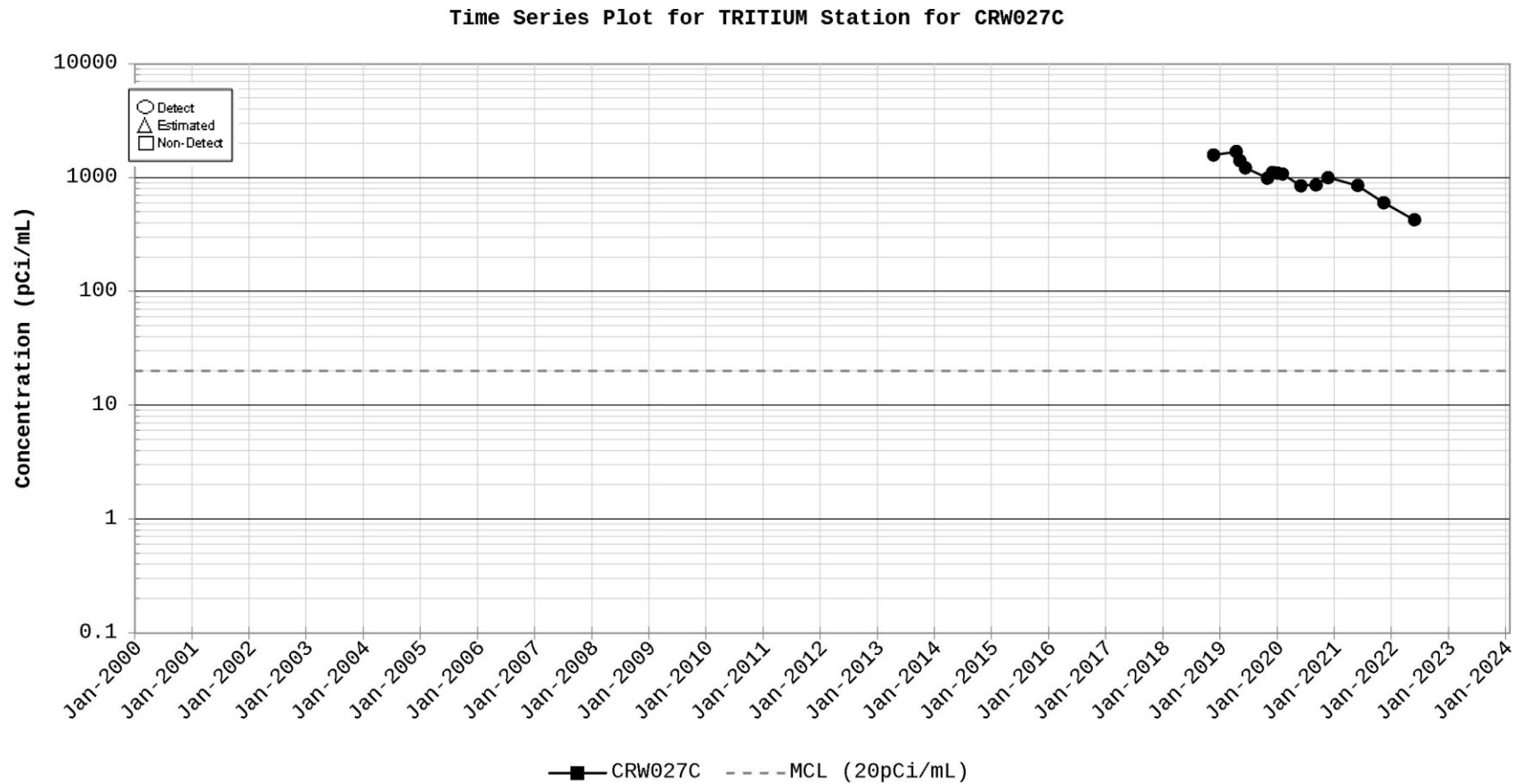


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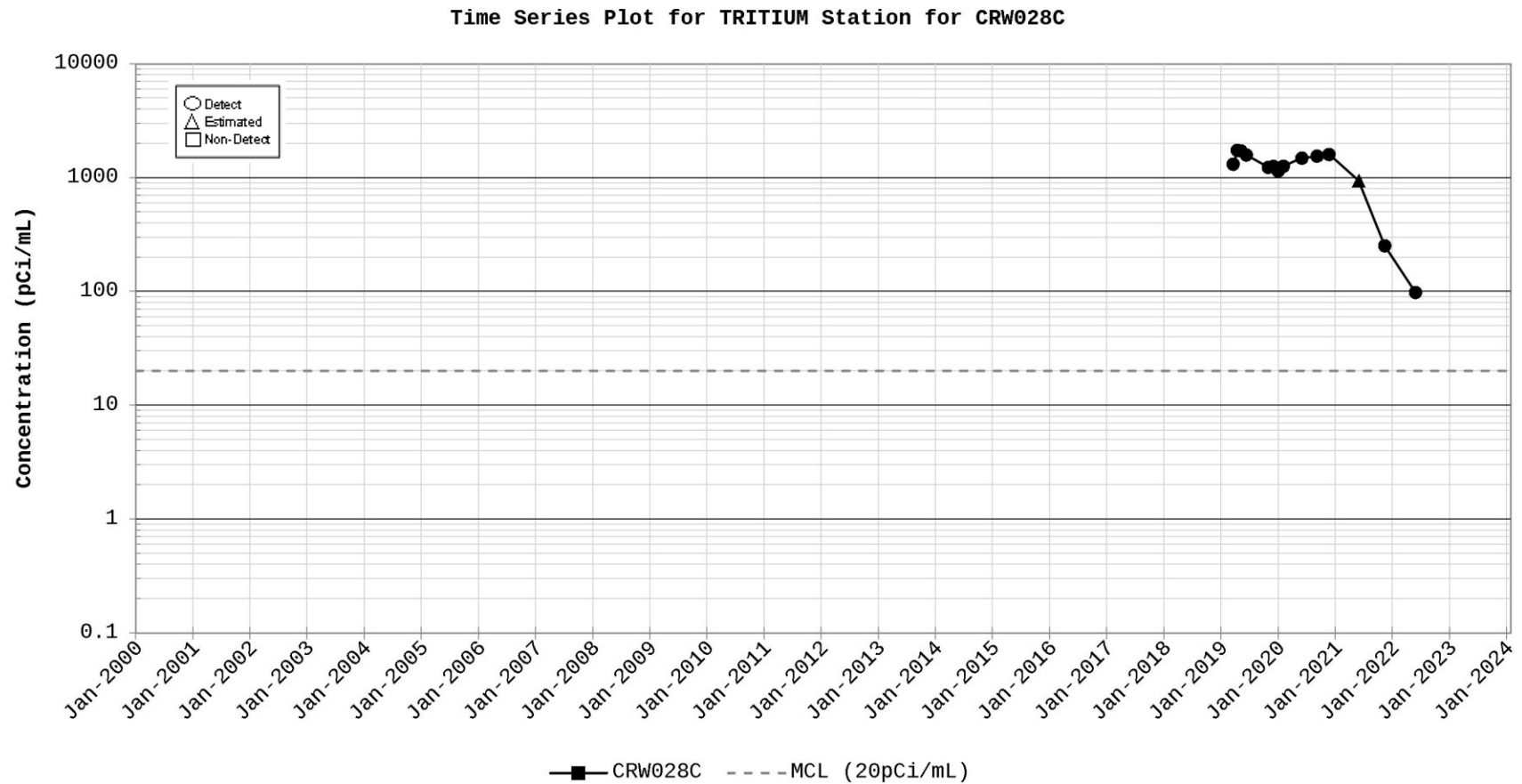


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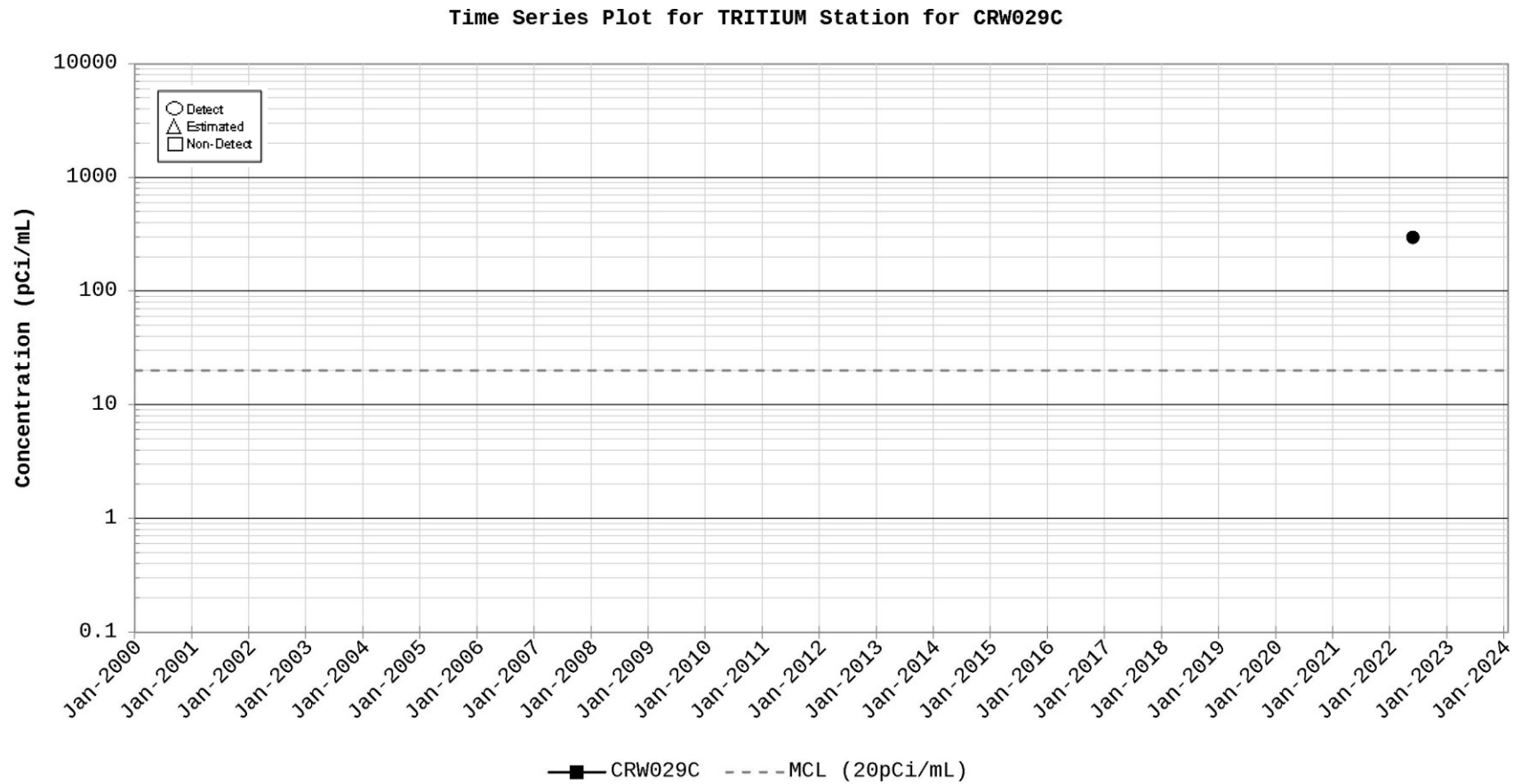


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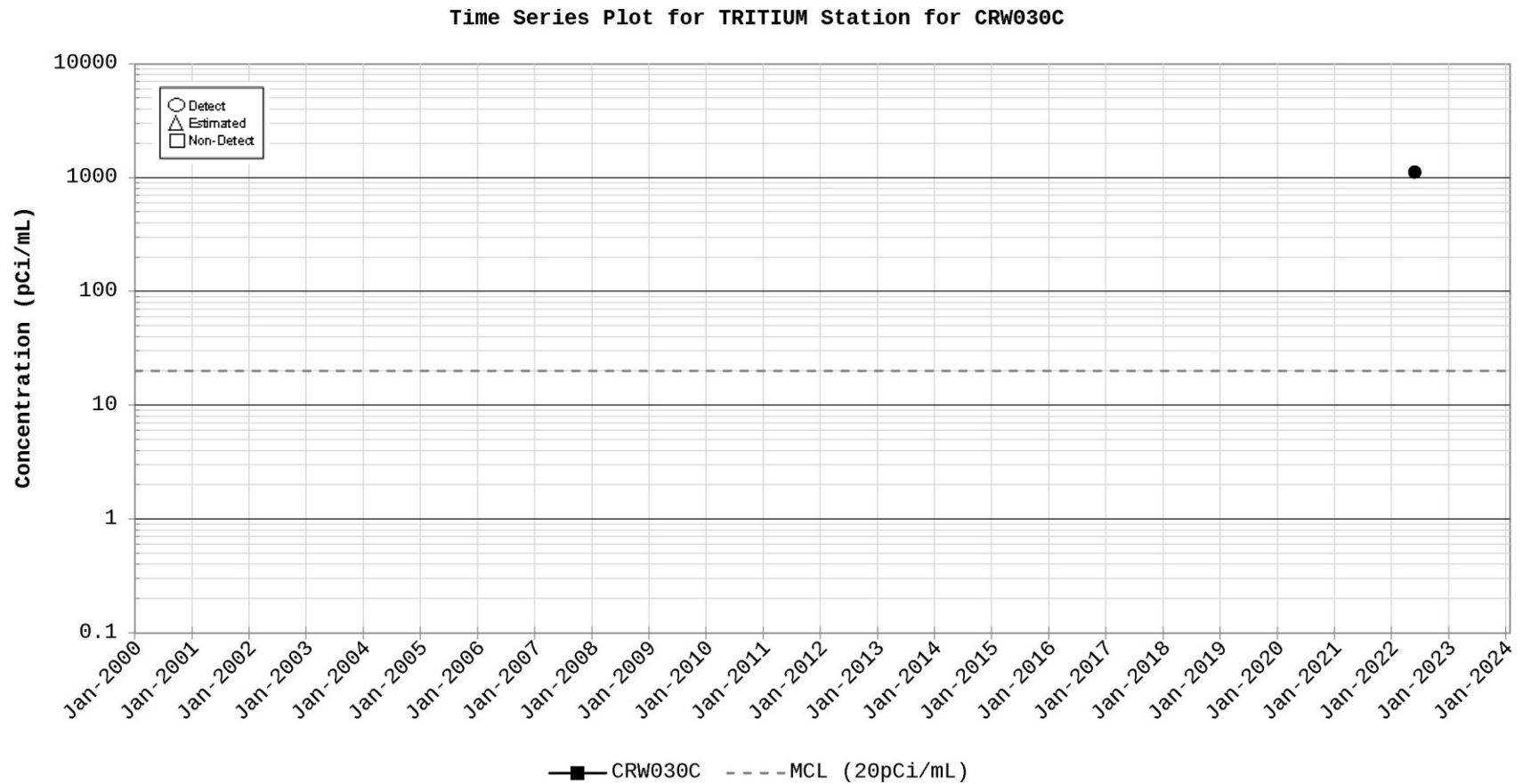


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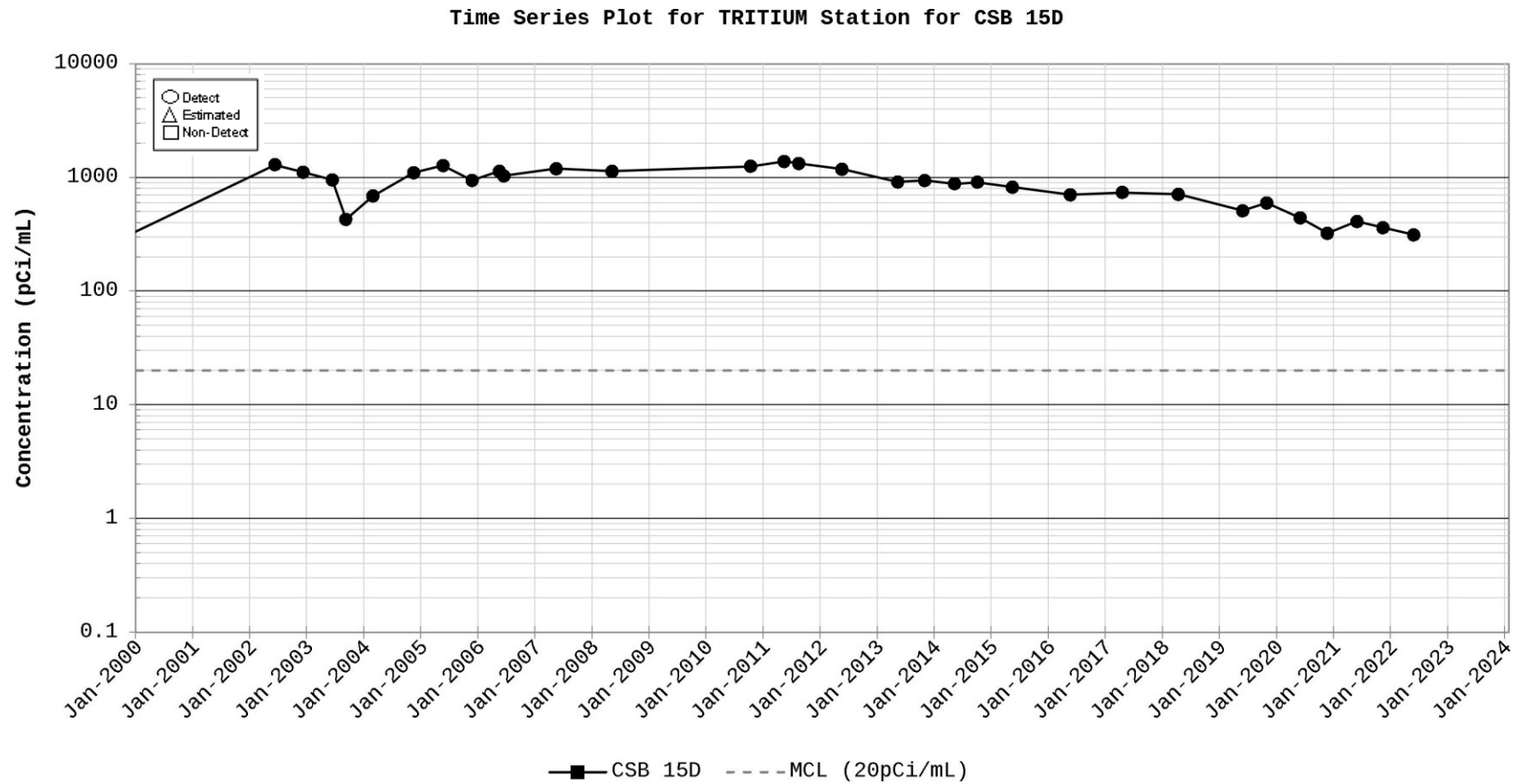
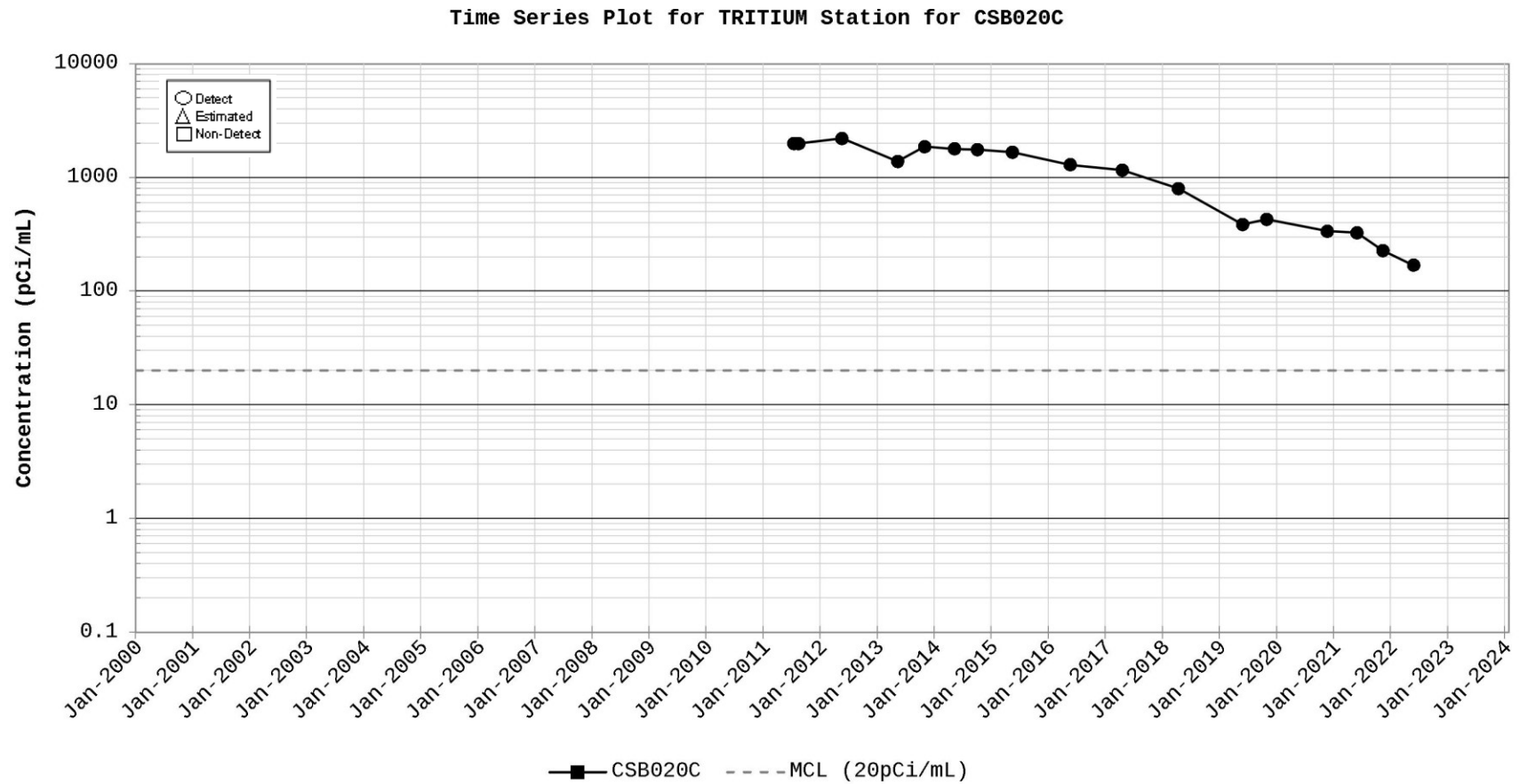


Figure C-140.



APPENDIX D

TCE Plume Maps

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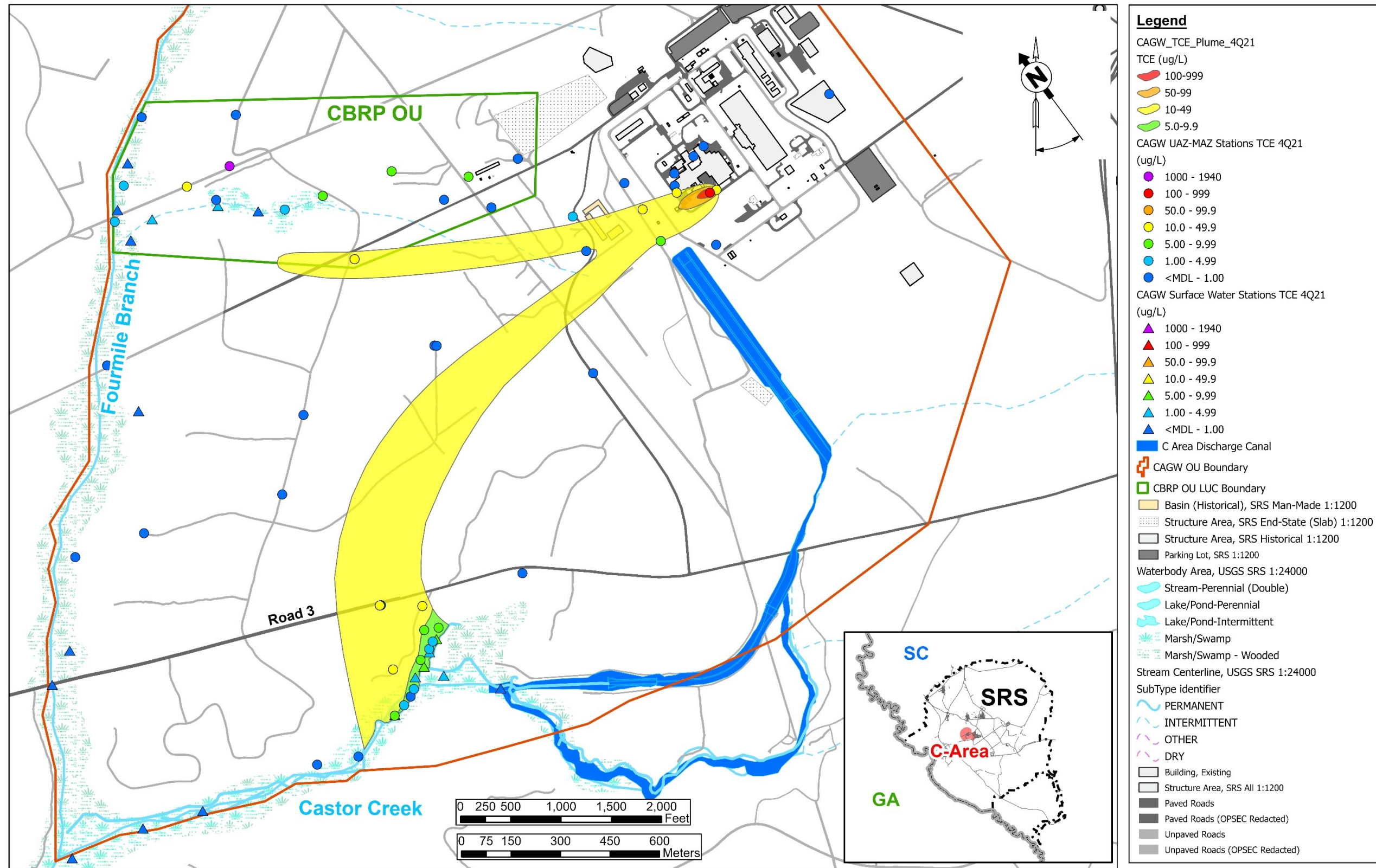


Figure D-1. November-December 2021 TCE Concentrations in the Upper Aquifer Zone (UAZ) and Middle Aquifer Zone (MAZ) of the Upper Three Runs Aquifer

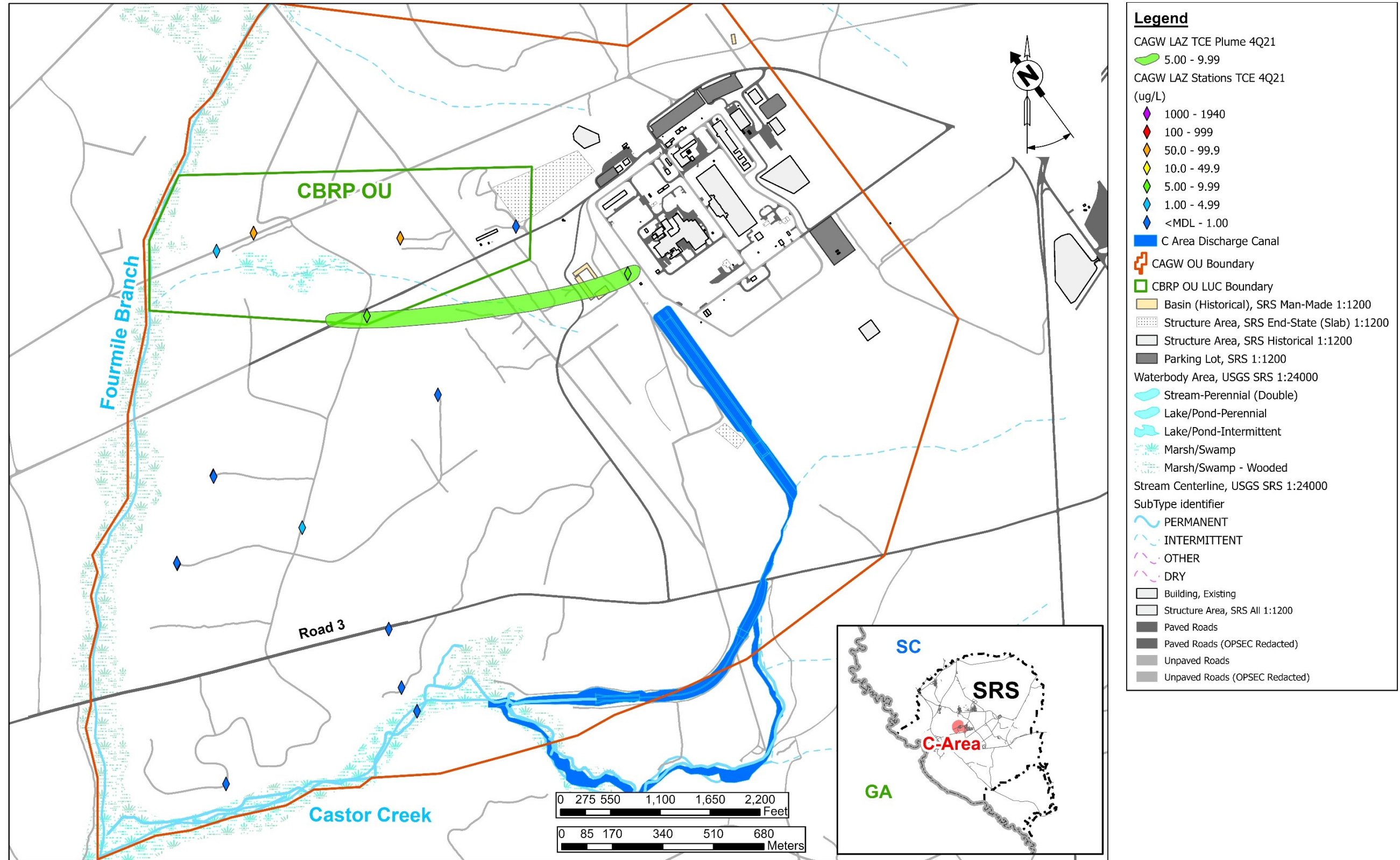
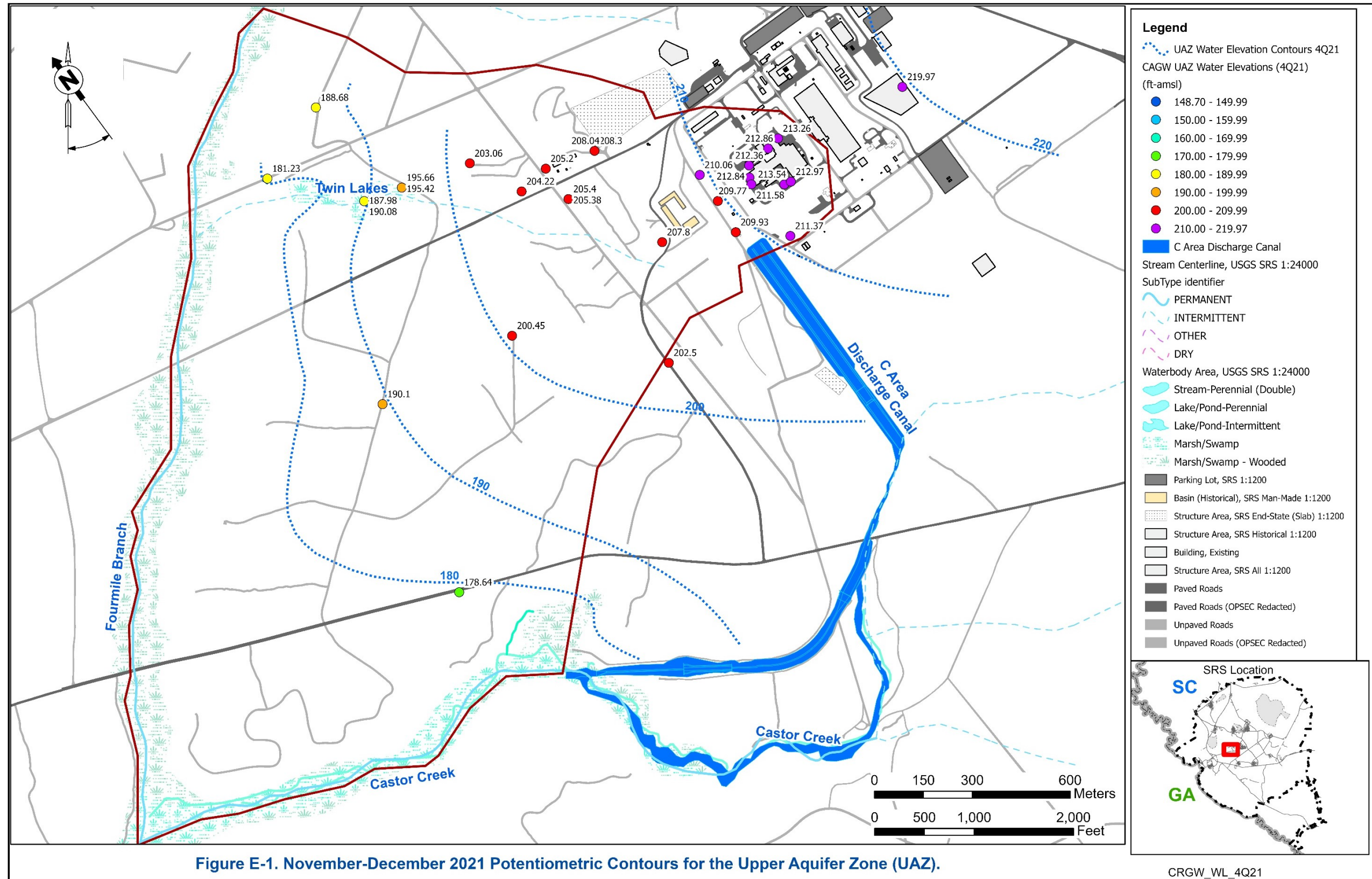


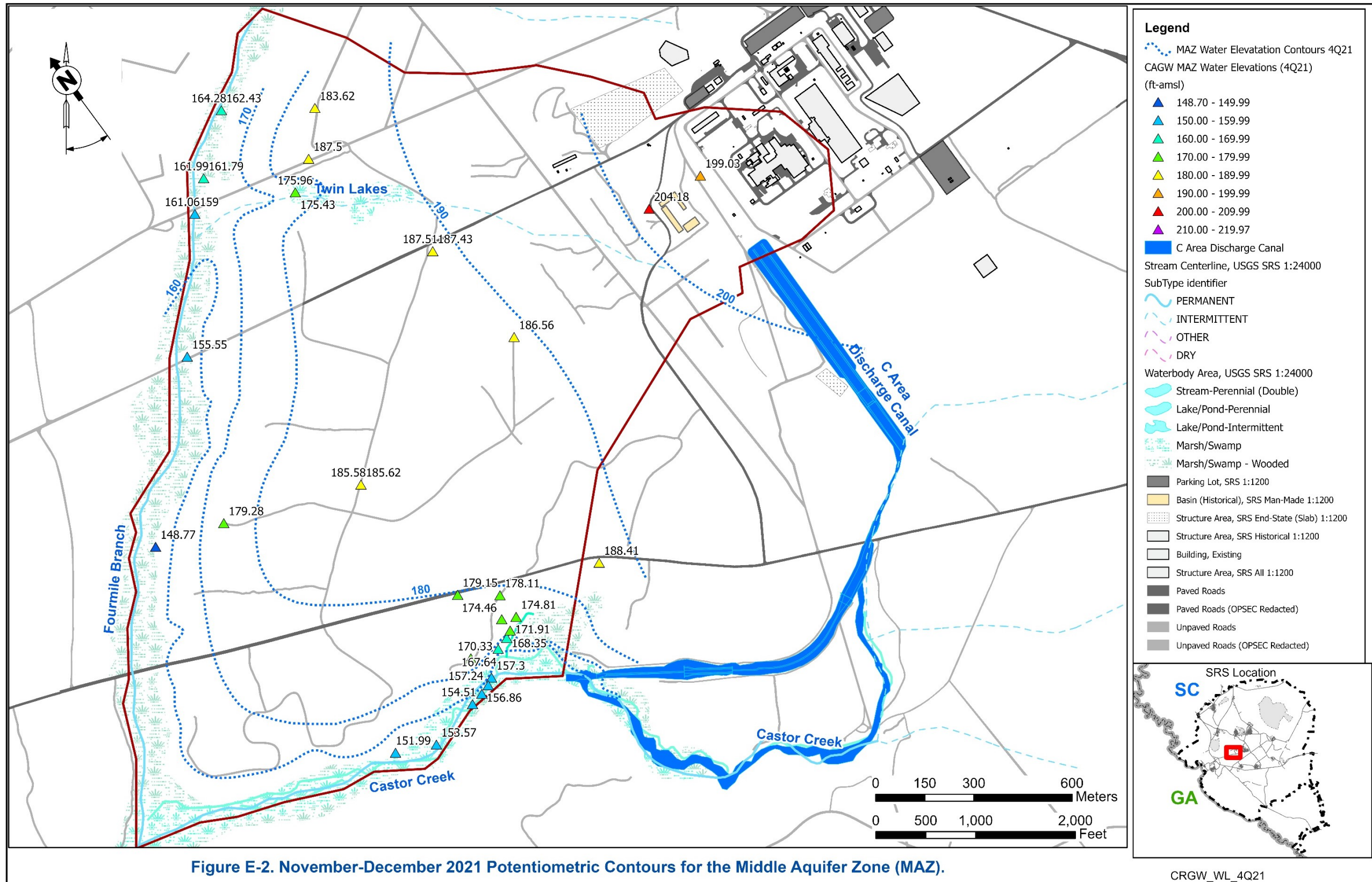
Figure D-2. November-December 2021 TCE Concentrations in the Lower Aquifer Zone (LAZ) of the Upper Three Runs Aquifer

APPENDIX E

Potentiometric Maps

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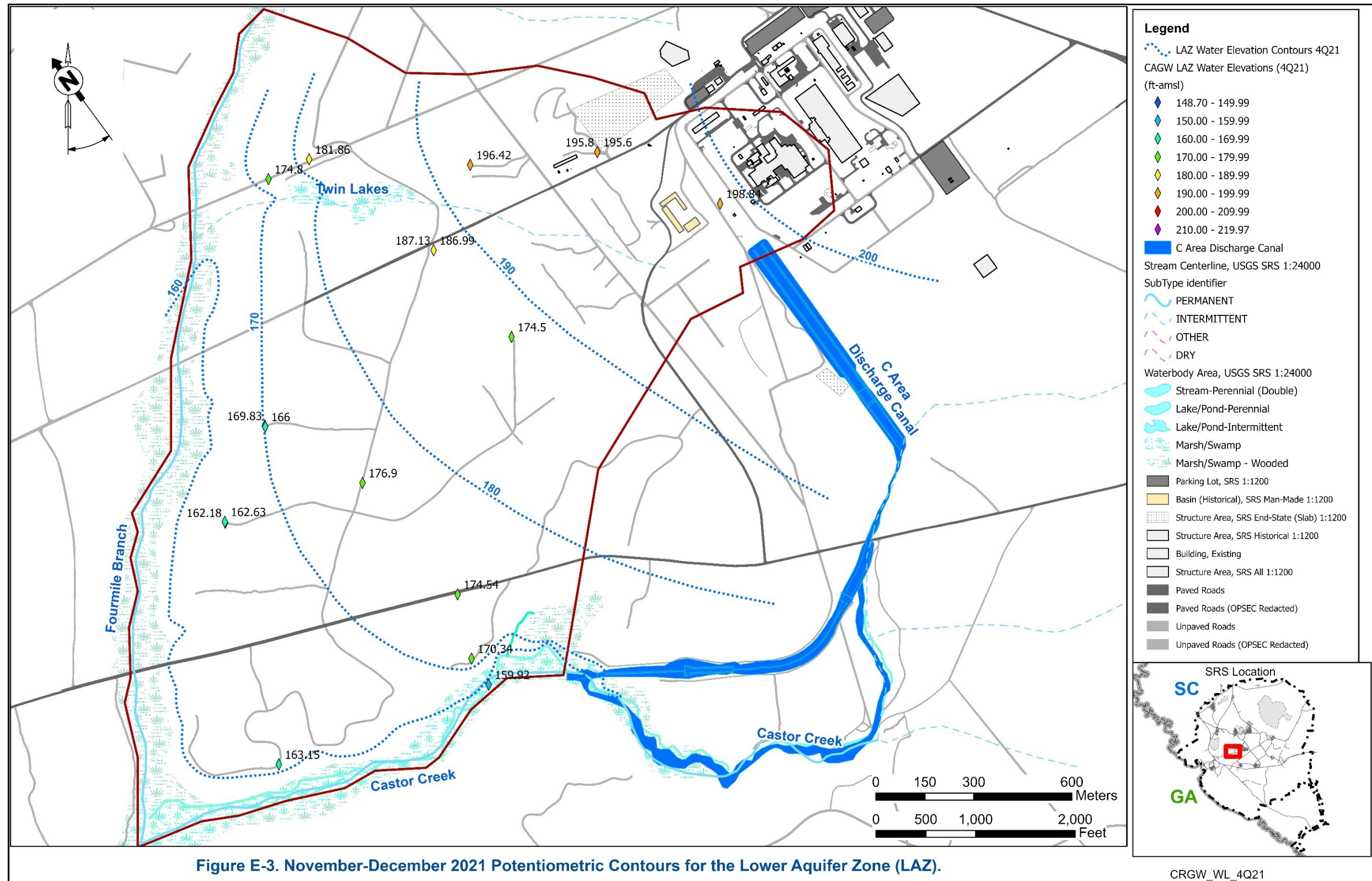
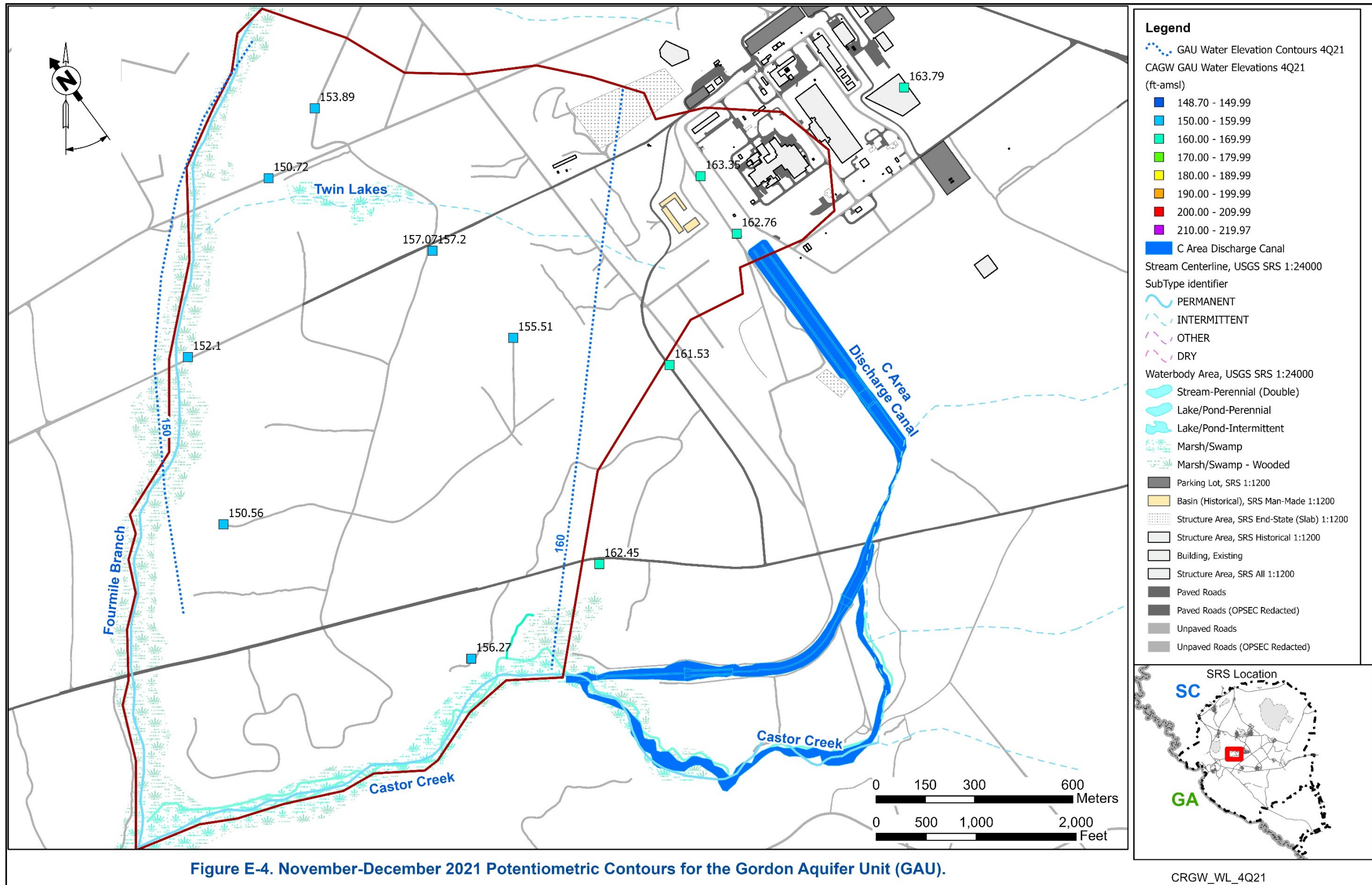


Figure E-3. November-December 2021 Potentiometric Contours for the Lower Aquifer Zone (LAZ).



APPENDIX F

CAGW OU Lab and Field Data

July 2021 through June 2022

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Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CC 01	SURFACE WATER	12/14/20	1,2-DICHLOROETHYLENE	0.67	2.00	U	U	2.00	µg/L
CC 01	SURFACE WATER	12/17/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 01	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 01	SURFACE WATER	12/17/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	12/17/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	12/17/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	12/17/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	12/17/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CC 01	SURFACE WATER	12/17/21	TRITIUM	0.677	2.940			26.000	pCi/mL
CC 01	SURFACE WATER	6/21/22	TRITIUM	0.530	3.110			22.800	pCi/mL
CC 02	SURFACE WATER	12/17/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 02	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 02	SURFACE WATER	12/17/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	12/17/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	12/17/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	12/17/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	12/17/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CC 02	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CC 02	SURFACE WATER	12/17/21	TRITIUM	0.677	2.940			26.000	pCi/mL
CC 02	SURFACE WATER	6/21/22	TRITIUM	0.536	3.160			23.200	pCi/mL
CC 03	SURFACE WATER	12/17/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 03	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 03	SURFACE WATER	12/17/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	12/17/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	12/17/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	12/17/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	12/17/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CC 03	SURFACE WATER	12/17/21	TRITIUM	0.708	3.150			28.900	pCi/mL
CC 03	SURFACE WATER	6/21/22	TRITIUM	0.575	3.700			30.700	pCi/mL
CC 04	SURFACE WATER	12/17/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 04	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 04	SURFACE WATER	12/17/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	12/17/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	12/17/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	12/17/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	12/17/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CC 04	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CC 04	SURFACE WATER	12/17/21	TRITIUM	0.692	2.970			25.300	pCi/mL
CC 04	SURFACE WATER	6/21/22	TRITIUM	0.550	3.330			25.800	pCi/mL
CC 05	SURFACE WATER	11/16/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 05	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 05	SURFACE WATER	11/16/21	CARBON DIOXIDE	1.450	4.000			6.410	mg/L
CC 05	SURFACE WATER	6/21/22	CARBON DIOXIDE	1.450	4.000	J	J	3.720	mg/L
CC 05	SURFACE WATER	11/16/21	CHLORIDE	0.067	0.200			2.300	mg/L
CC 05	SURFACE WATER	6/21/22	CHLORIDE	0.067	0.200			2.330	mg/L
CC 05	SURFACE WATER	11/16/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 05	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 05	SURFACE WATER	11/16/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 05	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 05	SURFACE WATER	11/16/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CC 05	SURFACE WATER	6/21/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CC 05	SURFACE WATER	11/16/21	METHANE	10.000	25.000	U	J	18.500	µg/L
CC 05	SURFACE WATER	6/21/22	METHANE	10.000	25.000	J	J	17.400	µg/L
CC 05	SURFACE WATER	11/16/21	NITRATE	0.033	0.100			0.513	mg/L
CC 05	SURFACE WATER	6/21/22	NITRATE	0.033	0.100			0.519	mg/L
CC 05	SURFACE WATER	11/16/21	SULFATE	0.133	0.400			0.808	mg/L
CC 05	SURFACE WATER	6/21/22	SULFATE	0.133	0.400			0.848	mg/L
CC 05	SURFACE WATER	11/16/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 05	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 05	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.916	mg/L
CC 05	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.931	mg/L
CC 05	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.939	mg/L
CC 05	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.942	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CC 05	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.968	mg/L
CC 05	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.260	mg/L
CC 05	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.260	mg/L
CC 05	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.270	mg/L
CC 05	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.270	mg/L
CC 05	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.300	mg/L
CC 05	SURFACE WATER	11/16/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 05	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 05	SURFACE WATER	11/16/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.980	µg/L
CC 05	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.870	µg/L
CC 05	SURFACE WATER	11/16/21	TRITIUM	0.610	3.150			27.200	pCi/mL
CC 05	SURFACE WATER	6/21/22	TRITIUM	0.756	3.620			22.800	pCi/mL
CC 06	SURFACE WATER	12/17/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 06	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 06	SURFACE WATER	12/17/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 06	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 06	SURFACE WATER	12/17/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 06	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 06	SURFACE WATER	12/17/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 06	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000			1.460	µg/L
CC 06	SURFACE WATER	12/17/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 06	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 06	SURFACE WATER	12/17/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.360	µg/L
CC 06	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.890	µg/L
CC 06	SURFACE WATER	12/17/21	TRITIUM	0.670	1.510	J	J	0.716	pCi/mL
CC 06	SURFACE WATER	6/21/22	TRITIUM	0.533	1.280	J	J	0.834	pCi/mL
CC 07	SURFACE WATER	11/16/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CC 07	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 07	SURFACE WATER	11/16/21	CARBON DIOXIDE	1.450	4.000			7.340	mg/L
CC 07	SURFACE WATER	6/21/22	CARBON DIOXIDE	1.450	4.000			6.600	mg/L
CC 07	SURFACE WATER	11/16/21	CHLORIDE	0.067	0.200			2.260	mg/L
CC 07	SURFACE WATER	6/21/22	CHLORIDE	0.067	0.200			2.490	mg/L
CC 07	SURFACE WATER	11/16/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 07	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 07	SURFACE WATER	11/16/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 07	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 07	SURFACE WATER	11/16/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CC 07	SURFACE WATER	6/21/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CC 07	SURFACE WATER	11/16/21	METHANE	10.000	25.000	U	U	25.000	µg/L
CC 07	SURFACE WATER	6/21/22	METHANE	10.000	25.000	J	J	15.300	µg/L
CC 07	SURFACE WATER	11/16/21	NITRATE	0.033	0.100			0.532	mg/L
CC 07	SURFACE WATER	6/21/22	NITRATE	0.033	0.100			0.535	mg/L
CC 07	SURFACE WATER	11/16/21	SULFATE	0.133	0.400			0.811	mg/L
CC 07	SURFACE WATER	6/21/22	SULFATE	0.133	0.400			0.858	mg/L
CC 07	SURFACE WATER	11/16/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 07	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 07	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.819	mg/L
CC 07	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.827	mg/L
CC 07	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.829	mg/L
CC 07	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.830	mg/L
CC 07	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.831	mg/L
CC 07	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.110	mg/L
CC 07	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.110	mg/L
CC 07	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.120	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CC 07	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.120	mg/L
CC 07	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.120	mg/L
CC 07	SURFACE WATER	11/16/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 07	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 07	SURFACE WATER	11/16/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			1.100	µg/L
CC 07	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.840	µg/L
CC 07	SURFACE WATER	11/16/21	TRITIUM	0.608	1.360	U	U	0.541	pCi/mL
CC 07	SURFACE WATER	6/21/22	TRITIUM	0.735	1.670	U	U	0.723	pCi/mL
CC 08	SURFACE WATER	11/16/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 08	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CC 08	SURFACE WATER	11/16/21	CARBON DIOXIDE	1.450	4.000			6.440	mg/L
CC 08	SURFACE WATER	6/21/22	CARBON DIOXIDE	1.450	4.000			4.490	mg/L
CC 08	SURFACE WATER	11/16/21	CHLORIDE	0.067	0.200			2.260	mg/L
CC 08	SURFACE WATER	6/21/22	CHLORIDE	0.067	0.200			2.300	mg/L
CC 08	SURFACE WATER	11/16/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 08	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CC 08	SURFACE WATER	11/16/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 08	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 08	SURFACE WATER	11/16/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CC 08	SURFACE WATER	6/21/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CC 08	SURFACE WATER	11/16/21	METHANE	10.000	25.000	U	J	12.900	µg/L
CC 08	SURFACE WATER	6/21/22	METHANE	10.000	25.000	J	J	14.200	µg/L
CC 08	SURFACE WATER	11/16/21	NITRATE	0.033	0.100			0.528	mg/L
CC 08	SURFACE WATER	6/21/22	NITRATE	0.033	0.100			0.538	mg/L
CC 08	SURFACE WATER	11/16/21	SULFATE	0.133	0.400			0.790	mg/L
CC 08	SURFACE WATER	6/21/22	SULFATE	0.133	0.400			0.827	mg/L
CC 08	SURFACE WATER	11/16/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CC 08	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CC 08	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.904	mg/L
CC 08	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.913	mg/L
CC 08	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.914	mg/L
CC 08	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.916	mg/L
CC 08	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.923	mg/L
CC 08	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.667	mg/L
CC 08	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.669	mg/L
CC 08	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.674	mg/L
CC 08	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.680	mg/L
CC 08	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.680	mg/L
CC 08	SURFACE WATER	11/16/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 08	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CC 08	SURFACE WATER	11/16/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			1.090	µg/L
CC 08	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.930	µg/L
CC 08	SURFACE WATER	11/16/21	TRITIUM	0.609	3.170			27.500	pCi/mL
CC 08	SURFACE WATER	6/21/22	TRITIUM	0.729	3.470			22.000	pCi/mL
CCSL-08	SEEPLINE	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	J	J	1.300	µg/L
CCSL-08	SEEPLINE	6/14/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCSL-08	SEEPLINE	11/29/21	CARBON DIOXIDE	1.450	4.000			27.800	mg/L
CCSL-08	SEEPLINE	6/14/22	CARBON DIOXIDE	1.450	4.000			26.100	mg/L
CCSL-08	SEEPLINE	11/29/21	CHLORIDE	0.067	0.200			2.280	mg/L
CCSL-08	SEEPLINE	6/14/22	CHLORIDE	0.067	0.200			2.250	mg/L
CCSL-08	SEEPLINE	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-08	SEEPLINE	6/14/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-08	SEEPLINE	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000			1.300	µg/L
CCSL-08	SEEPLINE	6/14/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCSL-08	SEEPLINE	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-08	SEEPLINE	6/14/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-08	SEEPLINE	11/29/21	METHANE	10.000	25.000	U	J	13.200	µg/L
CCSL-08	SEEPLINE	6/14/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CCSL-08	SEEPLINE	11/29/21	NITRATE	0.033	0.100			0.921	mg/L
CCSL-08	SEEPLINE	6/14/22	NITRATE	0.033	0.100			0.535	mg/L
CCSL-08	SEEPLINE	11/29/21	SULFATE	0.133	0.400	J	J	0.504	mg/L
CCSL-08	SEEPLINE	6/14/22	SULFATE	0.133	0.400			0.422	mg/L
CCSL-08	SEEPLINE	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCSL-08	SEEPLINE	6/14/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	UJ	1.000	µg/L
CCSL-08	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.080	mg/L
CCSL-08	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.110	mg/L
CCSL-08	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.120	mg/L
CCSL-08	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.140	mg/L
CCSL-08	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.140	mg/L
CCSL-08	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.395	mg/L
CCSL-08	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.419	mg/L
CCSL-08	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.423	mg/L
CCSL-08	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.428	mg/L
CCSL-08	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.429	mg/L
CCSL-08	SEEPLINE	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-08	SEEPLINE	6/14/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-08	SEEPLINE	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			2.090	µg/L
CCSL-08	SEEPLINE	6/14/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	4.730	µg/L
CCSL-08	SEEPLINE	11/29/21	TRITIUM	0.693	5.770			67.500	pCi/mL
CCSL-08	SEEPLINE	6/14/22	TRITIUM	0.682	4.860			55.700	pCi/mL
CCSL-11	SEEPLINE	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCSL-11	SEEPLINE	6/14/22	1,2-DICHLOROETHYLENE	0.667	2.000	J	J	1.820	µg/L
CCSL-11	SEEPLINE	11/29/21	CARBON DIOXIDE	1.450	4.000	J	J	1.950	mg/L
CCSL-11	SEEPLINE	6/14/22	CARBON DIOXIDE	1.450	4.000			16.100	mg/L
CCSL-11	SEEPLINE	11/29/21	CHLORIDE	0.067	0.200			2.880	mg/L
CCSL-11	SEEPLINE	6/14/22	CHLORIDE	0.067	0.200			3.180	mg/L
CCSL-11	SEEPLINE	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-11	SEEPLINE	6/14/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-11	SEEPLINE	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-11	SEEPLINE	6/14/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000		J	1.820	µg/L
CCSL-11	SEEPLINE	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-11	SEEPLINE	6/14/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-11	SEEPLINE	11/29/21	METHANE	10.000	25.000	U	J	15.900	µg/L
CCSL-11	SEEPLINE	6/14/22	METHANE	10.000	25.000			69.500	µg/L
CCSL-11	SEEPLINE	11/29/21	NITRATE	0.033	0.100			0.960	mg/L
CCSL-11	SEEPLINE	6/14/22	NITRATE	0.033	0.100			0.585	mg/L
CCSL-11	SEEPLINE	11/29/21	SULFATE	0.133	0.400	J	J	0.631	mg/L
CCSL-11	SEEPLINE	6/14/22	SULFATE	0.133	0.400			0.623	mg/L
CCSL-11	SEEPLINE	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCSL-11	SEEPLINE	6/14/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	UJ	1.000	µg/L
CCSL-11	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.050	mg/L
CCSL-11	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.060	mg/L
CCSL-11	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.060	mg/L
CCSL-11	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.070	mg/L
CCSL-11	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.080	mg/L
CCSL-11	SEEPLINE	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-11	SEEPLINE	6/14/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-11	SEEPLINE	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCSL-11	SEEPLINE	6/14/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.340	µg/L
CCSL-11	SEEPLINE	11/29/21	TRITIUM	0.718	7.600			122.000	pCi/mL
CCSL-11	SEEPLINE	6/14/22	TRITIUM	0.748	7.110			119.000	pCi/mL
CCSL-14	SEEPLINE	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCSL-14	SEEPLINE	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCSL-14	SEEPLINE	11/29/21	CARBON DIOXIDE	1.450	4.000			24.600	mg/L
CCSL-14	SEEPLINE	6/13/22	CARBON DIOXIDE	1.450	4.000			37.000	mg/L
CCSL-14	SEEPLINE	11/29/21	CHLORIDE	0.067	0.200			2.020	mg/L
CCSL-14	SEEPLINE	6/13/22	CHLORIDE	0.067	0.200			2.280	mg/L
CCSL-14	SEEPLINE	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-14	SEEPLINE	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-14	SEEPLINE	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-14	SEEPLINE	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-14	SEEPLINE	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-14	SEEPLINE	6/13/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-14	SEEPLINE	11/29/21	METHANE	10.000	25.000	U	U	25.000	µg/L
CCSL-14	SEEPLINE	6/13/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CCSL-14	SEEPLINE	11/29/21	NITRATE	0.033	0.100			0.544	mg/L
CCSL-14	SEEPLINE	6/13/22	NITRATE	0.033	0.100			0.499	mg/L
CCSL-14	SEEPLINE	11/29/21	SULFATE	0.133	0.400	J	J	0.272	mg/L
CCSL-14	SEEPLINE	6/13/22	SULFATE	0.133	0.400			0.444	mg/L
CCSL-14	SEEPLINE	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCSL-14	SEEPLINE	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCSL-14	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.573	mg/L
CCSL-14	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.588	mg/L
CCSL-14	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.594	mg/L
CCSL-14	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.600	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCSL-14	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.613	mg/L
CCSL-14	SEEPLINE	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CCSL-14	SEEPLINE	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CCSL-14	SEEPLINE	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CCSL-14	SEEPLINE	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CCSL-14	SEEPLINE	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CCSL-14	SEEPLINE	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-14	SEEPLINE	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-14	SEEPLINE	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			2.910	µg/L
CCSL-14	SEEPLINE	6/13/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	5.960	µg/L
CCSL-14	SEEPLINE	11/29/21	TRITIUM	0.723	6.720			91.800	pCi/mL
CCSL-14	SEEPLINE	6/13/22	TRITIUM	0.748	7.210			122.000	pCi/mL
CCSL-21R	SEEPLINE	12/15/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCSL-21R	SEEPLINE	12/15/21	CARBON DIOXIDE	1.450	4.000	U	U	4.000	mg/L
CCSL-21R	SEEPLINE	12/15/21	CHLORIDE	0.067	0.200			3.670	mg/L
CCSL-21R	SEEPLINE	12/15/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-21R	SEEPLINE	12/15/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-21R	SEEPLINE	12/15/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-21R	SEEPLINE	12/15/21	METHANE	10.000	25.000			40.300	µg/L
CCSL-21R	SEEPLINE	12/15/21	NITRATE	0.033	0.100	U	U	0.100	mg/L
CCSL-21R	SEEPLINE	12/15/21	SULFATE	0.133	0.400			3.020	mg/L
CCSL-21R	SEEPLINE	12/15/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCSL-21R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.330	1.000		J	11.200	mg/L
CCSL-21R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.330	1.000		J	11.400	mg/L
CCSL-21R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.330	1.000		J	11.400	mg/L
CCSL-21R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.330	1.000		J	11.500	mg/L
CCSL-21R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.330	1.000		J	11.500	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCSL-21R	SEEPLINE	12/15/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-21R	SEEPLINE	12/15/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CCSL-21R	SEEPLINE	12/15/21	TRITIUM	0.846	5.990			116.000	pCi/mL
CCSL-22R	SEEPLINE	12/15/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCSL-22R	SEEPLINE	12/15/21	CARBON DIOXIDE	1.450	4.000			22.900	mg/L
CCSL-22R	SEEPLINE	12/15/21	CHLORIDE	0.067	0.200			2.950	mg/L
CCSL-22R	SEEPLINE	12/15/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-22R	SEEPLINE	12/15/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-22R	SEEPLINE	12/15/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-22R	SEEPLINE	12/15/21	METHANE	10.000	25.000	U	U	25.000	µg/L
CCSL-22R	SEEPLINE	12/15/21	NITRATE	0.033	0.100			0.761	mg/L
CCSL-22R	SEEPLINE	12/15/21	SULFATE	0.133	0.400			3.910	mg/L
CCSL-22R	SEEPLINE	12/15/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCSL-22R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.660	2.000			5.840	mg/L
CCSL-22R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.660	2.000			5.840	mg/L
CCSL-22R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.660	2.000			5.850	mg/L
CCSL-22R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.660	2.000			5.860	mg/L
CCSL-22R	SEEPLINE	12/15/21	TOTAL ORGANIC CARBON	0.660	2.000			5.890	mg/L
CCSL-22R	SEEPLINE	12/15/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-22R	SEEPLINE	12/15/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.570	µg/L
CCSL-22R	SEEPLINE	12/15/21	TRITIUM	0.666	6.930			224.000	pCi/mL
CCSL-23R	SEEPLINE	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCSL-23R	SEEPLINE	6/14/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCSL-23R	SEEPLINE	11/29/21	CARBON DIOXIDE	1.450	4.000			40.400	mg/L
CCSL-23R	SEEPLINE	6/14/22	CARBON DIOXIDE	1.450	4.000			37.300	mg/L
CCSL-23R	SEEPLINE	11/29/21	CHLORIDE	0.067	0.200			2.630	mg/L
CCSL-23R	SEEPLINE	6/14/22	CHLORIDE	0.067	0.200			2.680	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCSL-23R	SEEPLINE	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-23R	SEEPLINE	6/14/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCSL-23R	SEEPLINE	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-23R	SEEPLINE	6/14/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-23R	SEEPLINE	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-23R	SEEPLINE	6/14/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCSL-23R	SEEPLINE	11/29/21	METHANE	10.000	25.000	U	J	10.200	µg/L
CCSL-23R	SEEPLINE	6/14/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CCSL-23R	SEEPLINE	11/29/21	NITRATE	0.033	0.100			0.364	mg/L
CCSL-23R	SEEPLINE	6/14/22	NITRATE	0.033	0.100			0.588	mg/L
CCSL-23R	SEEPLINE	11/29/21	SULFATE	0.133	0.400	J	J	1.440	mg/L
CCSL-23R	SEEPLINE	6/14/22	SULFATE	0.133	0.400			1.180	mg/L
CCSL-23R	SEEPLINE	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCSL-23R	SEEPLINE	6/14/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	UJ	1.000	µg/L
CCSL-23R	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.110	mg/L
CCSL-23R	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.150	mg/L
CCSL-23R	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.160	mg/L
CCSL-23R	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.170	mg/L
CCSL-23R	SEEPLINE	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			1.200	mg/L
CCSL-23R	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.467	mg/L
CCSL-23R	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.478	mg/L
CCSL-23R	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.478	mg/L
CCSL-23R	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.483	mg/L
CCSL-23R	SEEPLINE	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.484	mg/L
CCSL-23R	SEEPLINE	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-23R	SEEPLINE	6/14/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCSL-23R	SEEPLINE	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			9.100	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCSL-23R	SEEPLINE	6/14/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	10.000	µg/L
CCSL-23R	SEEPLINE	11/29/21	TRITIUM	0.719	11.500			274.000	pCi/mL
CCSL-23R	SEEPLINE	6/14/22	TRITIUM	0.860	13.700			327.000	pCi/mL
CCT 01	SURFACE WATER	11/16/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCT 01	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCT 01	SURFACE WATER	11/16/21	CARBON DIOXIDE	1.450	4.000			12.200	mg/L
CCT 01	SURFACE WATER	6/21/22	CARBON DIOXIDE	1.450	4.000			5.410	mg/L
CCT 01	SURFACE WATER	11/16/21	CHLORIDE	0.067	0.200			2.200	mg/L
CCT 01	SURFACE WATER	6/21/22	CHLORIDE	0.067	0.200			2.230	mg/L
CCT 01	SURFACE WATER	11/16/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCT 01	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCT 01	SURFACE WATER	11/16/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCT 01	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCT 01	SURFACE WATER	11/16/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCT 01	SURFACE WATER	6/21/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCT 01	SURFACE WATER	11/16/21	METHANE	10.000	25.000	U	J	19.700	µg/L
CCT 01	SURFACE WATER	6/21/22	METHANE	10.000	25.000			126.000	µg/L
CCT 01	SURFACE WATER	11/16/21	NITRATE	0.033	0.100			0.555	mg/L
CCT 01	SURFACE WATER	6/21/22	NITRATE	0.033	0.100			0.641	mg/L
CCT 01	SURFACE WATER	11/16/21	SULFATE	0.133	0.400			0.604	mg/L
CCT 01	SURFACE WATER	6/21/22	SULFATE	0.133	0.400			0.539	mg/L
CCT 01	SURFACE WATER	11/16/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCT 01	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCT 01	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.090	mg/L
CCT 01	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.100	mg/L
CCT 01	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.100	mg/L
CCT 01	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.110	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCT 01	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.110	mg/L
CCT 01	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.654	mg/L
CCT 01	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.688	mg/L
CCT 01	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.697	mg/L
CCT 01	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.699	mg/L
CCT 01	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.703	mg/L
CCT 01	SURFACE WATER	11/16/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCT 01	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCT 01	SURFACE WATER	11/16/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			5.950	µg/L
CCT 01	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000			5.660	µg/L
CCT 01	SURFACE WATER	11/16/21	TRITIUM	0.619	9.540			354.000	pCi/mL
CCT 01	SURFACE WATER	6/21/22	TRITIUM	0.735	11.000			329.000	pCi/mL
CCT 02	SURFACE WATER	11/16/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCT 02	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CCT 02	SURFACE WATER	11/16/21	CARBON DIOXIDE	1.450	4.000			11.900	mg/L
CCT 02	SURFACE WATER	6/21/22	CARBON DIOXIDE	1.450	4.000			9.410	mg/L
CCT 02	SURFACE WATER	11/16/21	CHLORIDE	0.067	0.200			2.380	mg/L
CCT 02	SURFACE WATER	6/21/22	CHLORIDE	0.067	0.200			2.840	mg/L
CCT 02	SURFACE WATER	11/16/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCT 02	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCT 02	SURFACE WATER	11/16/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	J	J	0.400	µg/L
CCT 02	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	J	J	0.360	µg/L
CCT 02	SURFACE WATER	11/16/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCT 02	SURFACE WATER	6/21/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCT 02	SURFACE WATER	11/16/21	METHANE	10.000	25.000	U	U	25.000	µg/L
CCT 02	SURFACE WATER	6/21/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CCT 02	SURFACE WATER	11/16/21	NITRATE	0.033	0.100			0.328	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCT 02	SURFACE WATER	6/21/22	NITRATE	0.033	0.100			0.327	mg/L
CCT 02	SURFACE WATER	11/16/21	SULFATE	0.133	0.400			0.712	mg/L
CCT 02	SURFACE WATER	6/21/22	SULFATE	0.133	0.400			0.662	mg/L
CCT 02	SURFACE WATER	11/16/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCT 02	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCT 02	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.450	mg/L
CCT 02	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.530	mg/L
CCT 02	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.550	mg/L
CCT 02	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.590	mg/L
CCT 02	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.610	mg/L
CCT 02	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			2.250	mg/L
CCT 02	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			2.330	mg/L
CCT 02	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			2.350	mg/L
CCT 02	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			2.360	mg/L
CCT 02	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			2.370	mg/L
CCT 02	SURFACE WATER	11/16/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCT 02	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCT 02	SURFACE WATER	11/16/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			3.890	µg/L
CCT 02	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000			3.620	µg/L
CCT 02	SURFACE WATER	11/16/21	TRITIUM	0.789	5.830			87.700	pCi/mL
CCT 02	SURFACE WATER	6/21/22	TRITIUM	0.762	4.780			46.900	pCi/mL
CCT 03	SURFACE WATER	11/16/21	1,2-DICHLOROETHYLENE	0.667	2.000	J	J	0.740	µg/L
CCT 03	SURFACE WATER	6/21/22	1,2-DICHLOROETHYLENE	0.667	2.000	J	J	0.880	µg/L
CCT 03	SURFACE WATER	11/16/21	CARBON DIOXIDE	1.450	4.000			20.200	mg/L
CCT 03	SURFACE WATER	6/21/22	CARBON DIOXIDE	1.450	4.000			17.600	mg/L
CCT 03	SURFACE WATER	11/16/21	CHLORIDE	0.067	0.200			2.500	mg/L
CCT 03	SURFACE WATER	6/21/22	CHLORIDE	0.067	0.200			2.610	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCT 03	SURFACE WATER	11/16/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCT 03	SURFACE WATER	6/21/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CCT 03	SURFACE WATER	11/16/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	J	J	0.740	µg/L
CCT 03	SURFACE WATER	6/21/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	J	J	0.880	µg/L
CCT 03	SURFACE WATER	11/16/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCT 03	SURFACE WATER	6/21/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CCT 03	SURFACE WATER	11/16/21	METHANE	10.000	25.000	U	J	15.700	µg/L
CCT 03	SURFACE WATER	6/21/22	METHANE	10.000	25.000	J	J	19.300	µg/L
CCT 03	SURFACE WATER	11/16/21	NITRATE	0.033	0.100			0.249	mg/L
CCT 03	SURFACE WATER	6/21/22	NITRATE	0.033	0.100			0.229	mg/L
CCT 03	SURFACE WATER	11/16/21	SULFATE	0.133	0.400			0.825	mg/L
CCT 03	SURFACE WATER	6/21/22	SULFATE	0.133	0.400			0.695	mg/L
CCT 03	SURFACE WATER	11/16/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCT 03	SURFACE WATER	6/21/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CCT 03	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.640	mg/L
CCT 03	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.720	mg/L
CCT 03	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.720	mg/L
CCT 03	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.750	mg/L
CCT 03	SURFACE WATER	11/16/21	TOTAL ORGANIC CARBON	0.330	1.000			1.760	mg/L
CCT 03	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.520	mg/L
CCT 03	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.610	mg/L
CCT 03	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.630	mg/L
CCT 03	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.640	mg/L
CCT 03	SURFACE WATER	6/21/22	TOTAL ORGANIC CARBON	0.330	1.000			1.650	mg/L
CCT 03	SURFACE WATER	11/16/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCT 03	SURFACE WATER	6/21/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CCT 03	SURFACE WATER	11/16/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			6.660	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CCT 03	SURFACE WATER	6/21/22	TRICHLOROETHYLENE (TCE)	0.333	1.000			6.090	µg/L
CCT 03	SURFACE WATER	11/16/21	TRITIUM	0.629	2.690			16.700	pCi/mL
CCT 03	SURFACE WATER	6/21/22	TRITIUM	0.753	2.530			7.570	pCi/mL
CDB 1	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CDB 1	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CDB 1	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CDB 1	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.670	µg/L
CDB 1	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CDB 1	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CDB 1	MONITORING WELL	12/6/21	TRITIUM	0.635	1.800			3.140	pCi/mL
CDB 2	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CDB 2	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CDB 2	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CDB 2	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CDB 2	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CDB 2	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CDB 2	MONITORING WELL	12/6/21	TRITIUM	0.664	5.860			152.000	pCi/mL
CDB003D	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CDB003D	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CDB003D	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CDB003D	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CDB003D	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CDB003D	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	18.100	µg/L
CDB003D	MONITORING WELL	12/6/21	TRITIUM	0.663	1.950			6.250	pCi/mL
CRP 6DR	MONITORING WELL	10/28/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
CRP 6DR	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRP 6DR	MONITORING WELL	10/28/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRP 6DR	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRP 6DR	MONITORING WELL	10/28/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	U		1.000	µg/L
CRP 6DR	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRP 6DR	MONITORING WELL	10/28/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	UJ		5.000	µg/L
CRP 6DR	MONITORING WELL	10/28/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
CRP 6DR	MONITORING WELL	10/28/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	U		1.000	µg/L
CRP 6DR	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRP 6DR	MONITORING WELL	10/28/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
CRP 6DR	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRP 6DR	MONITORING WELL	10/28/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	U		1.000	µg/L
CRP 6DR	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRP 6DR	MONITORING WELL	12/6/21	TRITIUM	0.631	1.500	J	J	1.040	pCi/mL
CRP 8D	MONITORING WELL	10/28/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
CRP 8D	MONITORING WELL	10/28/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
CRP 8D	MONITORING WELL	10/28/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	U		1.000	µg/L
CRP 8D	MONITORING WELL	10/28/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	UJ		5.000	µg/L
CRP 8D	MONITORING WELL	10/28/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
CRP 8D	MONITORING WELL	10/28/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	U		1.000	µg/L
CRP 8D	MONITORING WELL	10/28/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
CRP 8D	MONITORING WELL	10/28/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	U		1.000	µg/L
CRW 1D	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 1D	ML MONITOR WELL	6/14/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 1D	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 1D	ML MONITOR WELL	6/14/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 1D	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 1D	ML MONITOR WELL	6/14/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW 1D	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 1D	ML MONITOR WELL	6/14/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	UJ	1.000	µg/L
CRW 1D	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 1D	ML MONITOR WELL	6/14/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 1D	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 1D	ML MONITOR WELL	6/14/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 1D	ML MONITOR WELL	12/6/21	TRITIUM	0.618	1.410	J	J	0.734	pCi/mL
CRW 1D	ML MONITOR WELL	6/14/22	TRITIUM	0.737	1.720	J	J	0.961	pCi/mL
CRW 4A	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 4A	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 4A	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 4A	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 4A	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 4A	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 4A	ML MONITOR WELL	12/6/21	TRITIUM	0.663	1.470	U	U	0.526	pCi/mL
CRW 4C	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 4C	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 4C	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 4C	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 4C	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 4C	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 4C	ML MONITOR WELL	12/6/21	TRITIUM	0.627	1.340	U	U	0.088	pCi/mL
CRW 4D	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 4D	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 4D	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 4D	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 4D	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW 4D	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 4D	ML MONITOR WELL	12/6/21	TRITIUM	0.662	1.670			2.640	pCi/mL
CRW 5A	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 5A	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 5A	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 5A	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 5A	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 5A	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 5A	ML MONITOR WELL	12/6/21	TRITIUM	0.633	1.340	U	U	0.077	pCi/mL
CRW 5D	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 5D	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 5D	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 5D	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 5D	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 5D	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			5.080	µg/L
CRW 5D	ML MONITOR WELL	12/6/21	TRITIUM	0.622	1.430	J	J	0.811	pCi/mL
CRW 7A	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 7A	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 7A	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 7A	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 7A	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 7A	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 7A	ML MONITOR WELL	12/6/21	TRITIUM	0.630	1.370	U	U	0.275	pCi/mL
CRW 7D	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 7D	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 7D	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 7D	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW 7D	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 7D	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 7D	ML MONITOR WELL	12/6/21	TRITIUM	0.633	1.510	J	J	1.060	pCi/mL
CRW 9A	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 9A	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 9A	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 9A	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 9A	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 9A	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 9A	MONITORING WELL	12/6/21	TRITIUM	0.618	1.520	J	J	1.500	pCi/mL
CRW 10A	ML MONITOR WELL	11/1/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
CRW 10A	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 10A	ML MONITOR WELL	11/1/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
CRW 10A	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 10A	ML MONITOR WELL	11/1/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	U		1.000	µg/L
CRW 10A	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 10A	ML MONITOR WELL	11/1/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
CRW 10A	ML MONITOR WELL	11/1/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
CRW 10A	ML MONITOR WELL	11/1/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	UJ		1.000	µg/L
CRW 10A	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 10A	ML MONITOR WELL	11/1/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
CRW 10A	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 10A	ML MONITOR WELL	11/1/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	U		1.000	µg/L
CRW 10A	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 10A	ML MONITOR WELL	12/6/21	TRITIUM	0.631	1.380	U	U	0.310	pCi/mL
CRW 10C	ML MONITOR WELL	11/1/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
CRW 10C	ML MONITOR WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW 10C	ML MONITOR WELL	11/1/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
CRW 10C	ML MONITOR WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 10C	ML MONITOR WELL	11/1/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	J		0.200	µg/L
CRW 10C	ML MONITOR WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 10C	ML MONITOR WELL	11/1/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
CRW 10C	ML MONITOR WELL	11/1/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
CRW 10C	ML MONITOR WELL	11/1/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000			2.490	µg/L
CRW 10C	ML MONITOR WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.600	µg/L
CRW 10C	ML MONITOR WELL	11/1/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
CRW 10C	ML MONITOR WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 10C	ML MONITOR WELL	11/1/21	TRICHLOROETHYLENE (TCE)	0.190	1.000			9.950	µg/L
CRW 10C	ML MONITOR WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	3.180	µg/L
CRW 10C	ML MONITOR WELL	12/7/21	TRITIUM	0.663	2.100			8.580	pCi/mL
CRW 11A	ML MONITOR WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 11A	ML MONITOR WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 11A	ML MONITOR WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 11A	ML MONITOR WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 11A	ML MONITOR WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 11A	ML MONITOR WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 11A	ML MONITOR WELL	12/7/21	TRITIUM	0.609	1.250	U	U	-0.186	pCi/mL
CRW 11D	ML MONITOR WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 11D	ML MONITOR WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 11D	ML MONITOR WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 11D	ML MONITOR WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 11D	ML MONITOR WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 11D	ML MONITOR WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 11D	ML MONITOR WELL	12/6/21	TRITIUM	0.664	1.540	J	J	1.170	pCi/mL

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW 12A	ML MONITOR WELL	11/1/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
CRW 12A	ML MONITOR WELL	11/1/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
CRW 12A	ML MONITOR WELL	11/1/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	U		1.000	µg/L
CRW 12A	ML MONITOR WELL	11/1/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
CRW 12A	ML MONITOR WELL	11/1/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
CRW 12A	ML MONITOR WELL	11/1/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	UJ		1.000	µg/L
CRW 12A	ML MONITOR WELL	11/1/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
CRW 12A	ML MONITOR WELL	11/1/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	U		1.000	µg/L
CRW 12C	ML MONITOR WELL	11/1/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
CRW 12C	ML MONITOR WELL	11/1/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
CRW 12C	ML MONITOR WELL	11/1/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	U		1.000	µg/L
CRW 12C	ML MONITOR WELL	11/1/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
CRW 12C	ML MONITOR WELL	11/1/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
CRW 12C	ML MONITOR WELL	11/1/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	UJ		1.000	µg/L
CRW 12C	ML MONITOR WELL	11/1/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
CRW 12C	ML MONITOR WELL	11/1/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	U		1.000	µg/L
CRW 12D	ML MONITOR WELL	11/1/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
CRW 12D	ML MONITOR WELL	11/1/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
CRW 12D	ML MONITOR WELL	11/1/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	U		1.000	µg/L
CRW 12D	ML MONITOR WELL	11/1/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
CRW 12D	ML MONITOR WELL	11/1/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
CRW 12D	ML MONITOR WELL	11/1/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	UJ		1.000	µg/L
CRW 12D	ML MONITOR WELL	11/1/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
CRW 12D	ML MONITOR WELL	11/1/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	U		1.000	µg/L
CRW 13A	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW 13A	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 13A	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 13A	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 13A	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 13A	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 13A	MONITORING WELL	12/6/21	TRITIUM	0.663	1.500	J	J	0.745	pCi/mL
CRW 14A	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 14A	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 14A	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 14A	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 14A	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 14A	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 14A	MONITORING WELL	12/6/21	TRITIUM	0.661	1.430	U	U	0.159	pCi/mL
CRW 15A	ML MONITOR WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 15A	ML MONITOR WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 15A	ML MONITOR WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 15A	ML MONITOR WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 15A	ML MONITOR WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 15A	ML MONITOR WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 15A	ML MONITOR WELL	12/7/21	TRITIUM	0.656	1.440	U	U	0.399	pCi/mL
CRW 15C	ML MONITOR WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 15C	ML MONITOR WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 15C	ML MONITOR WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 15C	ML MONITOR WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 15C	ML MONITOR WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 15C	ML MONITOR WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 15C	ML MONITOR WELL	12/7/21	TRITIUM	0.663	2.060			7.930	pCi/mL

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW 15D	ML MONITOR WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 15D	ML MONITOR WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 15D	ML MONITOR WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 15D	ML MONITOR WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 15D	ML MONITOR WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 15D	ML MONITOR WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 15D	ML MONITOR WELL	12/7/21	TRITIUM	0.660	3.960			59.700	pCi/mL
CRW 16D	ML MONITOR WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW 16D	ML MONITOR WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW 16D	ML MONITOR WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 16D	ML MONITOR WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW 16D	ML MONITOR WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW 16D	ML MONITOR WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW 16D	ML MONITOR WELL	12/7/21	TRITIUM	0.661	1.440	U	U	0.264	pCi/mL
CRW010CU	MONITORING WELL	11/1/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
CRW010CU	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW010CU	MONITORING WELL	11/1/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
CRW010CU	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW010CU	MONITORING WELL	11/1/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	J		0.159	µg/L
CRW010CU	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW010CU	MONITORING WELL	11/1/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
CRW010CU	MONITORING WELL	11/1/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
CRW010CU	MONITORING WELL	11/1/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000			1.440	µg/L
CRW010CU	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.770	µg/L
CRW010CU	MONITORING WELL	11/1/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
CRW010CU	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW010CU	MONITORING WELL	11/1/21	TRICHLOROETHYLENE (TCE)	0.190	1.000			14.900	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW010CU	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			9.350	µg/L
CRW010CU	MONITORING WELL	12/7/21	TRITIUM	0.629	2.050			5.690	pCi/mL
CRW015B	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW015B	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW015B	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW015B	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW015B	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW015B	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW015B	MONITORING WELL	12/6/21	TRITIUM	0.653	4.010			38.100	pCi/mL
CRW020D	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	3.340	10.000	U	U	10.000	µg/L
CRW020D	MONITORING WELL	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	J	J	0.740	µg/L
CRW020D	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	1.670	5.000	U	U	5.000	µg/L
CRW020D	MONITORING WELL	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW020D	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	1.670	5.000	U	U	5.000	µg/L
CRW020D	MONITORING WELL	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	J	J	0.740	µg/L
CRW020D	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	1.670	5.000	U	U	5.000	µg/L
CRW020D	MONITORING WELL	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000			1.080	µg/L
CRW020D	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	1.670	5.000	U	U	5.000	µg/L
CRW020D	MONITORING WELL	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW020D	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	1.670	5.000			153.000	µg/L
CRW020D	MONITORING WELL	6/13/22	TRICHLOROETHYLENE (TCE)	0.666	2.000		J	144.000	µg/L
CRW020D	MONITORING WELL	12/6/21	TRITIUM	0.663	1.830			4.660	pCi/mL
CRW020D	MONITORING WELL	6/13/22	TRITIUM	0.738	2.210			4.570	pCi/mL
CRW021DR	MONITORING WELL	12/6/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW021DR	MONITORING WELL	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	J	J	0.950	µg/L
CRW021DR	MONITORING WELL	12/6/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW021DR	MONITORING WELL	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW021DR	MONITORING WELL	12/6/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	J	J	0.480	µg/L
CRW021DR	MONITORING WELL	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	J	J	0.950	µg/L
CRW021DR	MONITORING WELL	12/6/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.400	µg/L
CRW021DR	MONITORING WELL	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.710	µg/L
CRW021DR	MONITORING WELL	12/6/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW021DR	MONITORING WELL	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW021DR	MONITORING WELL	12/6/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			41.400	µg/L
CRW021DR	MONITORING WELL	6/13/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	83.500	µg/L
CRW021DR	MONITORING WELL	12/6/21	TRITIUM	0.662	2.220			6.710	pCi/mL
CRW021DR	MONITORING WELL	6/13/22	TRITIUM	0.743	2.370			5.970	pCi/mL
CRW022D	MONITORING WELL	12/7/21	1,1'-BIPHENYL	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,2,4,5-TETRACHLOROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,2,4-TRICHLOROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,2-DICHLOROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,2-DIPHENYLHYDRAZINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,3,5-TRINITROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,3-DICHLOROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,3-DINITROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,4-DICHLOROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,4-DIOXANE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1,4-NAPHTHOQUINONE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	1-NAPHTHYLAMINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2,3,4,6-TETRACHLOROPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2,4,5-TRICHLOROPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2,4,6-TRICHLOROPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2,4-DICHLOROPHENOL	3.000	10.000	U	UJ	10.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW022D	MONITORING WELL	12/7/21	2,4-DIMETHYLPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2,4-DINITROPHENOL	5.000	20.000	U	UJ	20.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2,4-DINITROTOLUENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2,6-DICHLOROPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2,6-DINITROTOLUENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-ACETYLAMINOFLUORENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-CHLORONAPHTHALENE	0.410	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-CHLOROPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-METHYLANILINE (O-TOLUIDINE)	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-METHYLNAPHTHALENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-NAPHTHYLAMINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-NITROANILINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-NITROPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	2-PICOLINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	3,3-DICHLOROBENZIDINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	3,3'-DIMETHYLBENZIDINE	3.300	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	3-METHYLCHOLANTHRENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	4-AMINOBIHENYL	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	4-BROMOPHENYL PHENYL ETHER	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	4-CHLOROANILINE	3.300	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	4-CHLOROPHENYL PHENYL ETHER	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	4-NITROPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	4-NITROQUINOLINE-1-OXIDE	3.800	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	5-NITRO-O-TOLUIDINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	7,12-DIMETHYLBENZ(A)ANTHRACENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	A,A-DIMETHYLPHENETHYLAMINE	5.400	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ACENAPHTHENE	0.300	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW022D	MONITORING WELL	12/7/21	ACENAPHTHYLENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ACETOPHENONE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ANILINE	4.200	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ANTHRACENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ARAMITE	3.700	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ATRAZINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZALDEHYDE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZIDINE	3.900	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZO(G,H,I)PERYLENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZO[A]ANTHRACENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZO[A]PYRENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZO[B]FLUORANTHENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZO[K]FLUORANTHENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZOIC ACID	6.000	20.000	U	UJ	20.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BENZYL ALCOHOL	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BIS(2-CHLORO-1-METHYLETHYL)ETHER	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BIS(2-CHLOROETHOXY)METHANE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BIS(2-CHLOROETHYL)ETHER	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BIS(2-ETHYLHEXYL)PHTHALATE (DEHP)	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	BUTYL BENZYL PHTHALATE	0.300	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	CAPROLACTAM	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	CARBAZOLE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	CHLOROBENZILATE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	CHRYSENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	DIALLATE	3.000	10.000	U	U	10.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW022D	MONITORING WELL	12/7/21	DIBENZ[AH]ANTHRACENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	DIBENZOFURAN	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	DIETHYL PHTHALATE	0.300	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	DIMETHOATE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	DIMETHYL PHTHALATE	0.300	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	DI-N-BUTYL PHTHALATE	0.300	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	DINITRO-O-CRESOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	DISULFOTON	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ETHYL METHACRYLATE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ETHYL METHANESULFONATE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	FAMPHUR	5.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	FLUORANTHENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	FLUORENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	HEXACHLOROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	HEXACHLOROBUTADIENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	HEXACHLOROCYCLOPENTADIENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	HEXACHLOROETHANE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	HEXACHLOROPHENE	167.000	500.000	U	U	500.000	µg/L
CRW022D	MONITORING WELL	12/7/21	HEXACHLOROPROPENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	INDENO[1,2,3-CD]PYRENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ISODRIN	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ISOPHORONE	3.500	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	ISOSAFROLE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	KEPONE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	M/P-CRESOL	3.700	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	METHAPYRILENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	METHYL METHANESULFONATE	3.000	10.000	U	U	10.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW022D	MONITORING WELL	12/7/21	METHYL PARATHION	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	M-NITROANILINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	NAPHTHALENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-DIOCTYL PHTHALATE	0.300	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	NITROBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSODIETHYLAMINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSODIMETHYLAMINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSODI-N-BUTYLAMINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSODIPHENYLAMINE+ DIPHENYLAMINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSODIPROPYLAMINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSOMORPHOLINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSO-N-METHYLETHYLAMINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSOPIPERIDINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	N-NITROSOPYRROLIDINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	O,O,O-TRIETHYL PHOSPHOROTHIOATE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	O-CRESOL (2-METHYLPHENOL)	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PARATHION	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	P-CHLORO-M-CRESOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	P-DIMETHYLAMINOAZOBENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PENTACHLOROENZENE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PENTACHLOROETHANE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PENTACHLORONITROBENZENE	3.400	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PENTACHLOROPHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PHENACETIN	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PHENANTHRENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PHENOL	3.000	10.000	U	UJ	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PHORATE	3.000	10.000	U	U	10.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW022D	MONITORING WELL	12/7/21	P-NITROANILINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	P-PHENYLENEDIAMINE	100.000	500.000	U	U	500.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PRONAMIDE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PYRENE	0.300	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	PYRIDINE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	SAFROLE	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	SULFOTEPP	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	THIONAZIN	3.000	10.000	U	U	10.000	µg/L
CRW022D	MONITORING WELL	12/7/21	TPH BY GC/FID DIESEL RANGE ORGANICS	75.000	200.000	U	R	200.000	µg/L
CRW022D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CRW022D	MONITORING WELL	12/7/21	TRITIUM	0.620	1.340	U	U	0.225	pCi/mL
CRW023C	MONITORING WELL	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW023C	MONITORING WELL	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW023C	MONITORING WELL	11/29/21	CARBON DIOXIDE	1.450	4.000			36.400	mg/L
CRW023C	MONITORING WELL	6/13/22	CARBON DIOXIDE	1.450	4.000			26.800	mg/L
CRW023C	MONITORING WELL	11/29/21	CHLORIDE	0.067	0.200			1.850	mg/L
CRW023C	MONITORING WELL	6/13/22	CHLORIDE	0.067	0.200			1.990	mg/L
CRW023C	MONITORING WELL	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW023C	MONITORING WELL	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW023C	MONITORING WELL	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW023C	MONITORING WELL	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW023C	MONITORING WELL	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW023C	MONITORING WELL	6/13/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW023C	MONITORING WELL	11/29/21	METHANE	10.000	25.000	U	U	25.000	µg/L
CRW023C	MONITORING WELL	6/13/22	METHANE	10.000	25.000	J	J	23.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW023C	MONITORING WELL	11/29/21	NITRATE	0.033	0.100			0.895	mg/L
CRW023C	MONITORING WELL	6/13/22	NITRATE	0.033	0.100			1.240	mg/L
CRW023C	MONITORING WELL	11/29/21	SULFATE	0.133	0.400	J	J	0.615	mg/L
CRW023C	MONITORING WELL	6/13/22	SULFATE	0.133	0.400			0.532	mg/L
CRW023C	MONITORING WELL	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW023C	MONITORING WELL	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.370	µg/L
CRW023C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.565	mg/L
CRW023C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.583	mg/L
CRW023C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.586	mg/L
CRW023C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.593	mg/L
CRW023C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.601	mg/L
CRW023C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW023C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW023C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW023C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW023C	MONITORING WELL	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW023C	MONITORING WELL	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW023C	MONITORING WELL	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			7.120	µg/L
CRW023C	MONITORING WELL	6/13/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	6.160	µg/L
CRW023C	MONITORING WELL	11/29/21	TRITIUM	1.770	64.200			1610.000	pCi/mL
CRW023C	MONITORING WELL	6/13/22	TRITIUM	1.400	38.800			960.000	pCi/mL
CRW024C	MONITORING WELL	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW024C	MONITORING WELL	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW024C	MONITORING WELL	11/29/21	CARBON DIOXIDE	1.450	4.000			42.500	mg/L
CRW024C	MONITORING WELL	6/13/22	CARBON DIOXIDE	1.450	4.000			34.000	mg/L
CRW024C	MONITORING WELL	11/29/21	CHLORIDE	0.067	0.200			2.130	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW024C	MONITORING WELL	6/13/22	CHLORIDE	0.067	0.200			2.080	mg/L
CRW024C	MONITORING WELL	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW024C	MONITORING WELL	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW024C	MONITORING WELL	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW024C	MONITORING WELL	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW024C	MONITORING WELL	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW024C	MONITORING WELL	6/13/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW024C	MONITORING WELL	11/29/21	METHANE	10.000	25.000	U	J	15.400	µg/L
CRW024C	MONITORING WELL	6/13/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CRW024C	MONITORING WELL	11/29/21	NITRATE	0.033	0.100			1.530	mg/L
CRW024C	MONITORING WELL	6/13/22	NITRATE	0.033	0.100			1.520	mg/L
CRW024C	MONITORING WELL	11/29/21	SULFATE	0.133	0.400	J	J	0.317	mg/L
CRW024C	MONITORING WELL	6/13/22	SULFATE	0.133	0.400			0.614	mg/L
CRW024C	MONITORING WELL	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.380	µg/L
CRW024C	MONITORING WELL	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW024C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.361	mg/L
CRW024C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.391	mg/L
CRW024C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.391	mg/L
CRW024C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.398	mg/L
CRW024C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.412	mg/L
CRW024C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000			1.050	mg/L
CRW024C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000			1.090	mg/L
CRW024C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000			1.100	mg/L
CRW024C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000			1.110	mg/L
CRW024C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000			1.120	mg/L
CRW024C	MONITORING WELL	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW024C	MONITORING WELL	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW024C	MONITORING WELL	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			19.600	µg/L
CRW024C	MONITORING WELL	6/13/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	10.900	µg/L
CRW024C	MONITORING WELL	11/29/21	TRITIUM	1.690	64.700			1610.000	pCi/mL
CRW024C	MONITORING WELL	6/13/22	TRITIUM	1.590	49.000			1210.000	pCi/mL
CRW025C	MONITORING WELL	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW025C	MONITORING WELL	6/14/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW025C	MONITORING WELL	11/29/21	CARBON DIOXIDE	1.450	4.000			36.600	mg/L
CRW025C	MONITORING WELL	6/14/22	CARBON DIOXIDE	1.450	4.000			32.200	mg/L
CRW025C	MONITORING WELL	11/29/21	CHLORIDE	0.067	0.200			2.060	mg/L
CRW025C	MONITORING WELL	6/14/22	CHLORIDE	0.067	0.200			2.200	mg/L
CRW025C	MONITORING WELL	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW025C	MONITORING WELL	6/14/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW025C	MONITORING WELL	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW025C	MONITORING WELL	6/14/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW025C	MONITORING WELL	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW025C	MONITORING WELL	6/14/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW025C	MONITORING WELL	11/29/21	METHANE	10.000	25.000	U	U	25.000	µg/L
CRW025C	MONITORING WELL	6/14/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CRW025C	MONITORING WELL	11/29/21	NITRATE	0.033	0.100			0.870	mg/L
CRW025C	MONITORING WELL	6/14/22	NITRATE	0.033	0.100			0.726	mg/L
CRW025C	MONITORING WELL	11/29/21	SULFATE	0.133	0.400	J	J	0.520	mg/L
CRW025C	MONITORING WELL	6/14/22	SULFATE	0.133	0.400			0.494	mg/L
CRW025C	MONITORING WELL	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW025C	MONITORING WELL	6/14/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	UJ	1.000	µg/L
CRW025C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.386	mg/L
CRW025C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.402	mg/L
CRW025C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.404	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW025C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.411	mg/L
CRW025C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.415	mg/L
CRW025C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW025C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW025C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW025C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW025C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW025C	MONITORING WELL	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW025C	MONITORING WELL	6/14/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW025C	MONITORING WELL	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			8.140	µg/L
CRW025C	MONITORING WELL	6/14/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	2.910	µg/L
CRW025C	MONITORING WELL	11/29/21	TRITIUM	0.689	8.110			147.000	pCi/mL
CRW025C	MONITORING WELL	6/14/22	TRITIUM	0.747	6.450			95.100	pCi/mL
CRW026C	MONITORING WELL	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW026C	MONITORING WELL	6/14/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW026C	MONITORING WELL	11/29/21	CARBON DIOXIDE	1.450	4.000			21.100	mg/L
CRW026C	MONITORING WELL	6/14/22	CARBON DIOXIDE	1.450	4.000			14.900	mg/L
CRW026C	MONITORING WELL	11/29/21	CHLORIDE	0.067	0.200			1.860	mg/L
CRW026C	MONITORING WELL	6/14/22	CHLORIDE	0.067	0.200			1.830	mg/L
CRW026C	MONITORING WELL	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW026C	MONITORING WELL	6/14/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW026C	MONITORING WELL	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW026C	MONITORING WELL	6/14/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW026C	MONITORING WELL	11/29/21	ETHYLENE	50.000	125.000	U	U	125.000	µg/L
CRW026C	MONITORING WELL	6/14/22	ETHYLENE	100.000	250.000	U	U	250.000	µg/L
CRW026C	MONITORING WELL	11/29/21	METHANE	50.000	125.000			709.000	µg/L
CRW026C	MONITORING WELL	6/14/22	METHANE	100.000	250.000			1090.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW026C	MONITORING WELL	11/29/21	NITRATE	0.033	0.100	J	J	0.081	mg/L
CRW026C	MONITORING WELL	6/14/22	NITRATE	0.033	0.100			0.196	mg/L
CRW026C	MONITORING WELL	11/29/21	SULFATE	0.133	0.400	U	U	0.400	mg/L
CRW026C	MONITORING WELL	6/14/22	SULFATE	0.133	0.400	J	J	0.334	mg/L
CRW026C	MONITORING WELL	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW026C	MONITORING WELL	6/14/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	UJ	1.000	µg/L
CRW026C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			2.770	mg/L
CRW026C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			2.840	mg/L
CRW026C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			2.880	mg/L
CRW026C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			2.920	mg/L
CRW026C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000			3.010	mg/L
CRW026C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000			2.930	mg/L
CRW026C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000			3.000	mg/L
CRW026C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000			3.000	mg/L
CRW026C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000			3.020	mg/L
CRW026C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000			3.030	mg/L
CRW026C	MONITORING WELL	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW026C	MONITORING WELL	6/14/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW026C	MONITORING WELL	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			4.090	µg/L
CRW026C	MONITORING WELL	6/14/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	4.360	µg/L
CRW026C	MONITORING WELL	11/29/21	TRITIUM	1.340	40.900			1010.000	pCi/mL
CRW026C	MONITORING WELL	6/14/22	TRITIUM	1.260	31.500			771.000	pCi/mL
CRW027C	MONITORING WELL	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW027C	MONITORING WELL	6/14/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW027C	MONITORING WELL	11/29/21	CARBON DIOXIDE	1.450	4.000			21.500	mg/L
CRW027C	MONITORING WELL	6/14/22	CARBON DIOXIDE	1.450	4.000			44.500	mg/L
CRW027C	MONITORING WELL	11/29/21	CHLORIDE	0.067	0.200			1.730	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW027C	MONITORING WELL	6/14/22	CHLORIDE	0.067	0.200			2.110	mg/L
CRW027C	MONITORING WELL	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW027C	MONITORING WELL	6/14/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW027C	MONITORING WELL	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW027C	MONITORING WELL	6/14/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	J	J	0.370	µg/L
CRW027C	MONITORING WELL	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW027C	MONITORING WELL	6/14/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW027C	MONITORING WELL	11/29/21	METHANE	10.000	25.000	U	J	15.900	µg/L
CRW027C	MONITORING WELL	6/14/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CRW027C	MONITORING WELL	11/29/21	NITRATE	0.033	0.100			1.200	mg/L
CRW027C	MONITORING WELL	6/14/22	NITRATE	0.033	0.100			1.440	mg/L
CRW027C	MONITORING WELL	11/29/21	SULFATE	0.133	0.400	J	J	0.282	mg/L
CRW027C	MONITORING WELL	6/14/22	SULFATE	0.133	0.400			0.562	mg/L
CRW027C	MONITORING WELL	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW027C	MONITORING WELL	6/14/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	UJ	1.000	µg/L
CRW027C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.473	mg/L
CRW027C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.496	mg/L
CRW027C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.497	mg/L
CRW027C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.505	mg/L
CRW027C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.513	mg/L
CRW027C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW027C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW027C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW027C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW027C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW027C	MONITORING WELL	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW027C	MONITORING WELL	6/14/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW027C	MONITORING WELL	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			3.630	µg/L
CRW027C	MONITORING WELL	6/14/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	11.800	µg/L
CRW027C	MONITORING WELL	11/29/21	TRITIUM	0.990	24.600			603.000	pCi/mL
CRW027C	MONITORING WELL	6/14/22	TRITIUM	0.952	17.600			425.000	pCi/mL
CRW028C	MONITORING WELL	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW028C	MONITORING WELL	6/14/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW028C	MONITORING WELL	11/29/21	CARBON DIOXIDE	1.450	4.000			43.000	mg/L
CRW028C	MONITORING WELL	6/14/22	CARBON DIOXIDE	1.450	4.000			31.500	mg/L
CRW028C	MONITORING WELL	11/29/21	CHLORIDE	0.067	0.200			1.910	mg/L
CRW028C	MONITORING WELL	6/14/22	CHLORIDE	0.067	0.200			1.930	mg/L
CRW028C	MONITORING WELL	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW028C	MONITORING WELL	6/14/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW028C	MONITORING WELL	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW028C	MONITORING WELL	6/14/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW028C	MONITORING WELL	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW028C	MONITORING WELL	6/14/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW028C	MONITORING WELL	11/29/21	METHANE	10.000	25.000	U	J	10.500	µg/L
CRW028C	MONITORING WELL	6/14/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CRW028C	MONITORING WELL	11/29/21	NITRATE	0.033	0.100			1.100	mg/L
CRW028C	MONITORING WELL	6/14/22	NITRATE	0.033	0.100			0.992	mg/L
CRW028C	MONITORING WELL	11/29/21	SULFATE	0.133	0.400	J	J	0.558	mg/L
CRW028C	MONITORING WELL	6/14/22	SULFATE	0.133	0.400			0.508	mg/L
CRW028C	MONITORING WELL	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW028C	MONITORING WELL	6/14/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	UJ	1.000	µg/L
CRW028C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.341	mg/L
CRW028C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.342	mg/L
CRW028C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.349	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW028C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.363	mg/L
CRW028C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW028C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW028C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW028C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW028C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW028C	MONITORING WELL	6/14/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW028C	MONITORING WELL	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW028C	MONITORING WELL	6/14/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW028C	MONITORING WELL	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			8.500	µg/L
CRW028C	MONITORING WELL	6/14/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	10.800	µg/L
CRW028C	MONITORING WELL	11/29/21	TRITIUM	0.701	10.600			252.000	pCi/mL
CRW028C	MONITORING WELL	6/14/22	TRITIUM	0.740	6.500			97.900	pCi/mL
CRW029C	MONITORING WELL	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW029C	MONITORING WELL	6/13/22	CARBON DIOXIDE	1.450	4.000			36.600	mg/L
CRW029C	MONITORING WELL	6/13/22	CHLORIDE	0.067	0.200			1.760	mg/L
CRW029C	MONITORING WELL	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW029C	MONITORING WELL	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW029C	MONITORING WELL	6/13/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW029C	MONITORING WELL	6/13/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CRW029C	MONITORING WELL	6/13/22	NITRATE	0.033	0.100			1.080	mg/L
CRW029C	MONITORING WELL	6/13/22	SULFATE	0.133	0.400			0.667	mg/L
CRW029C	MONITORING WELL	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CRW029C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW029C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW029C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW029C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW029C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW029C	MONITORING WELL	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW029C	MONITORING WELL	6/13/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	1.430	µg/L
CRW029C	MONITORING WELL	6/13/22	TRITIUM	0.842	12.400			294.000	pCi/mL
CRW030C	MONITORING WELL	2/28/22	1,1,1-TRICHLOROETHANE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	2/28/22	1,1,2,2-TETRACHLOROETHANE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	2/28/22	1,1-DICHLOROETHANE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	2/28/22	1,1-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	2/28/22	1,2-DICHLOROBENZENE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CRW030C	MONITORING WELL	2/28/22	ARSENIC	5.000	30.000	U	U	30.000	µg/L
CRW030C	MONITORING WELL	2/28/22	BARIUM	1.000	5.000			10.800	µg/L
CRW030C	MONITORING WELL	2/28/22	BERYLLIUM	1.000	5.000	U	U	5.000	µg/L
CRW030C	MONITORING WELL	2/28/22	CADMIUM	1.000	5.000	U	U	5.000	µg/L
CRW030C	MONITORING WELL	6/13/22	CARBON DIOXIDE	1.450	4.000			28.600	mg/L
CRW030C	MONITORING WELL	2/28/22	CESIUM-137	6.750	14.000	U	U	-0.247	pCi/L
CRW030C	MONITORING WELL	2/28/22	CHLORIDE	0.067	0.200			1.820	mg/L
CRW030C	MONITORING WELL	6/13/22	CHLORIDE	0.067	0.200			2.030	mg/L
CRW030C	MONITORING WELL	2/28/22	CHLOROBENZENE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	2/28/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	2/28/22	CHROMIUM	1.000	10.000	U	U	10.000	µg/L
CRW030C	MONITORING WELL	2/28/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	6/13/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CRW030C	MONITORING WELL	2/28/22	GROSS ALPHA	0.476	1.190	J	J	0.741	pCi/L
CRW030C	MONITORING WELL	2/28/22	IODINE-129	1.120	2.290	U	U	0.203	pCi/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW030C	MONITORING WELL	2/28/22	LEAD	3.300	20.000	U	U	20.000	µg/L
CRW030C	MONITORING WELL	2/28/22	MERCURY	0.067	0.200	U	U	0.200	µg/L
CRW030C	MONITORING WELL	6/13/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CRW030C	MONITORING WELL	6/13/22	NITRATE	0.033	0.100			1.300	mg/L
CRW030C	MONITORING WELL	2/28/22	NITRATE-NITRITE AS NITROGEN	0.170	0.500			0.861	mg/L
CRW030C	MONITORING WELL	2/28/22	NONVOLATILE BETA	0.985	2.220	J	J	1.280	pCi/L
CRW030C	MONITORING WELL	2/28/22	SELENIUM	6.000	30.000	U	U	30.000	µg/L
CRW030C	MONITORING WELL	2/28/22	SILVER	1.000	5.000	U	U	5.000	µg/L
CRW030C	MONITORING WELL	2/28/22	STRONTIUM-90	6.850	14.400	U	U	1.070	pCi/L
CRW030C	MONITORING WELL	2/28/22	SULFATE	0.133	0.400	J	J	0.375	mg/L
CRW030C	MONITORING WELL	6/13/22	SULFATE	0.133	0.400	J	J	0.373	mg/L
CRW030C	MONITORING WELL	2/28/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.860	µg/L
CRW030C	MONITORING WELL	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.350	µg/L
CRW030C	MONITORING WELL	2/28/22	TOTAL ORGANIC CARBON	0.330	1.000			1.290	mg/L
CRW030C	MONITORING WELL	2/28/22	TOTAL ORGANIC CARBON	0.330	1.000			1.290	mg/L
CRW030C	MONITORING WELL	2/28/22	TOTAL ORGANIC CARBON	0.330	1.000			1.310	mg/L
CRW030C	MONITORING WELL	2/28/22	TOTAL ORGANIC CARBON	0.330	1.000			1.310	mg/L
CRW030C	MONITORING WELL	2/28/22	TOTAL ORGANIC CARBON	0.330	1.000			1.340	mg/L
CRW030C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW030C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW030C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW030C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW030C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CRW030C	MONITORING WELL	2/28/22	TOTAL PHOSPHATES (AS P)	0.020	0.050	U	U	0.050	mg/L
CRW030C	MONITORING WELL	2/28/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CRW030C	MONITORING WELL	2/28/22	TRICHLOROETHYLENE (TCE)	0.333	1.000			2.380	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CRW030C	MONITORING WELL	6/13/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	8.100	µg/L
CRW030C	MONITORING WELL	2/28/22	TRITIUM	0.561	24.000			607.000	pCi/mL
CRW030C	MONITORING WELL	6/13/22	TRITIUM	1.530	45.500			1120.000	pCi/mL
CSB 3C	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB 3C	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB 3C	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 3C	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB 3C	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 3C	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			3.160	µg/L
CSB 3C	MONITORING WELL	12/7/21	TRITIUM	0.633	7.910			192.000	pCi/mL
CSB 9D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB 9D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB 9D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 9D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB 9D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 9D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB 9D	MONITORING WELL	12/7/21	TRITIUM	0.632	3.490			28.100	pCi/mL
CSB 11D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB 11D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB 11D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 11D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.660	µg/L
CSB 11D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 11D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB 11D	MONITORING WELL	12/7/21	TRITIUM	0.616	3.000			22.800	pCi/mL
CSB 12D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB 12D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB 12D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CSB 12D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB 12D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 12D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB 12D	MONITORING WELL	12/7/21	TRITIUM	0.662	2.780			16.300	pCi/mL
CSB 13D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB 13D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB 13D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 13D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB 13D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 13D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB 13D	MONITORING WELL	12/7/21	TRITIUM	0.657	3.500			43.400	pCi/mL
CSB 15D	MONITORING WELL	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB 15D	MONITORING WELL	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB 15D	MONITORING WELL	11/29/21	CARBON DIOXIDE	1.450	4.000			33.500	mg/L
CSB 15D	MONITORING WELL	6/13/22	CARBON DIOXIDE	1.450	4.000			32.600	mg/L
CSB 15D	MONITORING WELL	11/29/21	CHLORIDE	0.067	0.200			2.210	mg/L
CSB 15D	MONITORING WELL	6/13/22	CHLORIDE	0.067	0.200			2.470	mg/L
CSB 15D	MONITORING WELL	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB 15D	MONITORING WELL	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB 15D	MONITORING WELL	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 15D	MONITORING WELL	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 15D	MONITORING WELL	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CSB 15D	MONITORING WELL	6/13/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CSB 15D	MONITORING WELL	11/29/21	METHANE	10.000	25.000	U	U	25.000	µg/L
CSB 15D	MONITORING WELL	6/13/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CSB 15D	MONITORING WELL	11/29/21	NITRATE	0.033	0.100			0.903	mg/L
CSB 15D	MONITORING WELL	6/13/22	NITRATE	0.033	0.100			0.964	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CSB 15D	MONITORING WELL	11/29/21	SULFATE	0.133	0.400	J	J	0.236	mg/L
CSB 15D	MONITORING WELL	6/13/22	SULFATE	0.133	0.400	J	J	0.382	mg/L
CSB 15D	MONITORING WELL	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.340	µg/L
CSB 15D	MONITORING WELL	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.420	µg/L
CSB 15D	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.333	mg/L
CSB 15D	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.341	mg/L
CSB 15D	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.349	mg/L
CSB 15D	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB 15D	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB 15D	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB 15D	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB 15D	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB 15D	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB 15D	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB 15D	MONITORING WELL	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 15D	MONITORING WELL	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB 15D	MONITORING WELL	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			36.800	µg/L
CSB 15D	MONITORING WELL	6/13/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	38.400	µg/L
CSB 15D	MONITORING WELL	11/29/21	TRITIUM	0.801	14.900			361.000	pCi/mL
CSB 15D	MONITORING WELL	6/13/22	TRITIUM	0.845	13.100			312.000	pCi/mL
CSB011B	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB011B	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB011B	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB011B	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB011B	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB011B	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB011B	MONITORING WELL	12/7/21	TRITIUM	0.618	1.380	U	U	0.525	pCi/mL

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CSB011C	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB011C	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB011C	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB011C	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB011C	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB011C	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.880	µg/L
CSB011C	MONITORING WELL	12/7/21	TRITIUM	0.659	1.600			1.860	pCi/mL
CSB013B	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB013B	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB013B	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB013B	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB013B	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB013B	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB013B	MONITORING WELL	12/7/21	TRITIUM	0.661	3.940			58.700	pCi/mL
CSB015B	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB015B	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB015B	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB015B	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB015B	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB015B	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB015B	MONITORING WELL	12/7/21	TRITIUM	0.629	1.370	U	U	0.270	pCi/mL
CSB017B	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB017B	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB017B	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB017B	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB017B	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB017B	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			6.650	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CSB017B	MONITORING WELL	12/7/21	TRITIUM	0.618	8.340			258.000	pCi/mL
CSB017D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB017D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB017D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB017D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.630	µg/L
CSB017D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB017D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			19.500	µg/L
CSB017D	MONITORING WELL	12/7/21	TRITIUM	0.622	4.240			54.900	pCi/mL
CSB019B	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB019B	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB019B	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB019B	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.370	µg/L
CSB019B	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB019B	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			1.200	µg/L
CSB019B	MONITORING WELL	12/7/21	TRITIUM	0.634	12.500			506.000	pCi/mL
CSB019C	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB019C	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB019C	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB019C	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB019C	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB019C	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB019C	MONITORING WELL	12/16/21	TRITIUM	0.661	1.790			4.130	pCi/mL
CSB020B	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB020B	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB020B	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB020B	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB020B	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CSB020B	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB020B	MONITORING WELL	12/7/21	TRITIUM	0.660	1.640			2.360	pCi/mL
CSB020C	MONITORING WELL	11/29/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB020C	MONITORING WELL	6/13/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB020C	MONITORING WELL	11/29/21	CARBON DIOXIDE	1.450	4.000			34.500	mg/L
CSB020C	MONITORING WELL	6/13/22	CARBON DIOXIDE	1.450	4.000			34.900	mg/L
CSB020C	MONITORING WELL	11/29/21	CHLORIDE	0.067	0.200			2.320	mg/L
CSB020C	MONITORING WELL	6/13/22	CHLORIDE	0.067	0.200			2.590	mg/L
CSB020C	MONITORING WELL	11/29/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB020C	MONITORING WELL	6/13/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB020C	MONITORING WELL	11/29/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB020C	MONITORING WELL	6/13/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB020C	MONITORING WELL	11/29/21	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CSB020C	MONITORING WELL	6/13/22	ETHYLENE	10.000	25.000	U	U	25.000	µg/L
CSB020C	MONITORING WELL	11/29/21	METHANE	10.000	25.000	U	U	25.000	µg/L
CSB020C	MONITORING WELL	6/13/22	METHANE	10.000	25.000	U	U	25.000	µg/L
CSB020C	MONITORING WELL	11/29/21	NITRATE	0.033	0.100			1.120	mg/L
CSB020C	MONITORING WELL	6/13/22	NITRATE	0.033	0.100			1.160	mg/L
CSB020C	MONITORING WELL	11/29/21	SULFATE	0.133	0.400	J	J	0.256	mg/L
CSB020C	MONITORING WELL	6/13/22	SULFATE	0.133	0.400			0.436	mg/L
CSB020C	MONITORING WELL	11/29/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.350	µg/L
CSB020C	MONITORING WELL	6/13/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.390	µg/L
CSB020C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.330	mg/L
CSB020C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	J	J	0.336	mg/L
CSB020C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB020C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB020C	MONITORING WELL	11/29/21	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CSB020C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB020C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB020C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB020C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB020C	MONITORING WELL	6/13/22	TOTAL ORGANIC CARBON	0.330	1.000	U	U	1.000	mg/L
CSB020C	MONITORING WELL	11/29/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB020C	MONITORING WELL	6/13/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB020C	MONITORING WELL	11/29/21	TRICHLOROETHYLENE (TCE)	0.333	1.000			28.600	µg/L
CSB020C	MONITORING WELL	6/13/22	TRICHLOROETHYLENE (TCE)	0.333	1.000		J	24.300	µg/L
CSB020C	MONITORING WELL	11/29/21	TRITIUM	0.697	9.960			227.000	pCi/mL
CSB020C	MONITORING WELL	6/13/22	TRITIUM	0.745	8.310			169.000	pCi/mL
CSB020D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB020D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB020D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB020D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB020D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB020D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSB020D	MONITORING WELL	12/7/21	TRITIUM	0.622	1.420	J	J	0.691	pCi/mL
CSB021D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSB021D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSB021D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB021D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSB021D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSB021D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	J	J	0.590	µg/L
CSB021D	MONITORING WELL	12/7/21	TRITIUM	0.634	8.290			212.000	pCi/mL
CSL001	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSL001	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
CSL001	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSL001	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSL001	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSL001	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSL001	MONITORING WELL	12/7/21	TRITIUM	0.624	1.290	U	U	-0.151	pCi/mL
CSL002	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CSL002	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CSL002	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSL002	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CSL002	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CSL002	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CSL002	MONITORING WELL	12/7/21	TRITIUM	0.641	3.060			19.200	pCi/mL
CTA003D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CTA003D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CTA003D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CTA003D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	J	J	0.500	µg/L
CTA003D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CTA003D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CTA003D	MONITORING WELL	12/7/21	TRITIUM	0.659	19.800			1280.000	pCi/mL
CTA004D	MONITORING WELL	12/7/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
CTA004D	MONITORING WELL	12/7/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
CTA004D	MONITORING WELL	12/7/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CTA004D	MONITORING WELL	12/7/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
CTA004D	MONITORING WELL	12/7/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
CTA004D	MONITORING WELL	12/7/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
CTA004D	MONITORING WELL	12/7/21	TRITIUM	0.644	1.670			1.970	pCi/mL
TL 01	SURFACE WATER	11/23/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
TL 01	SURFACE WATER	12/17/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
TL 01	SURFACE WATER	11/23/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
TL 01	SURFACE WATER	12/17/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
TL 01	SURFACE WATER	11/23/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	U		1.000	µg/L
TL 01	SURFACE WATER	12/17/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
TL 01	SURFACE WATER	11/23/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
TL 01	SURFACE WATER	11/23/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
TL 01	SURFACE WATER	11/23/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	U		1.000	µg/L
TL 01	SURFACE WATER	12/17/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
TL 01	SURFACE WATER	11/23/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
TL 01	SURFACE WATER	12/17/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
TL 01	SURFACE WATER	11/23/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	U		1.000	µg/L
TL 01	SURFACE WATER	12/17/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
TL 01	SURFACE WATER	12/17/21	TRITIUM	0.694	1.640	J	J	1.600	pCi/mL
TL 02	SURFACE WATER	11/23/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
TL 02	SURFACE WATER	11/23/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
TL 02	SURFACE WATER	11/23/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	J		0.897	µg/L
TL 02	SURFACE WATER	11/23/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
TL 02	SURFACE WATER	11/23/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
TL 02	SURFACE WATER	11/23/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	U		1.000	µg/L
TL 02	SURFACE WATER	11/23/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
TL 02	SURFACE WATER	11/23/21	TRICHLOROETHYLENE (TCE)	0.190	1.000			3.240	µg/L
TL 03	SURFACE WATER	11/23/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
TL 03	SURFACE WATER	12/17/21	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
TL 03	SURFACE WATER	6/22/22	1,2-DICHLOROETHYLENE	0.667	2.000	U	U	2.000	µg/L
TL 03	SURFACE WATER	11/23/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
TL 03	SURFACE WATER	12/17/21	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	6/22/22	CHLOROETHENE (VINYL CHLORIDE)	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	11/23/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	U		1.000	µg/L
TL 03	SURFACE WATER	12/17/21	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	6/22/22	CIS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	11/23/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
TL 03	SURFACE WATER	11/23/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
TL 03	SURFACE WATER	11/23/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	U		1.000	µg/L
TL 03	SURFACE WATER	12/17/21	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	6/22/22	TETRACHLOROETHYLENE (PCE)	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	11/23/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
TL 03	SURFACE WATER	12/17/21	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	6/22/22	TRANS-1,2-DICHLOROETHYLENE	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	11/23/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	J		0.258	µg/L
TL 03	SURFACE WATER	12/17/21	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	6/22/22	TRICHLOROETHYLENE (TCE)	0.333	1.000	U	U	1.000	µg/L
TL 03	SURFACE WATER	12/17/21	TRITIUM	0.708	3.430			36.500	pCi/mL
TL 03	SURFACE WATER	6/22/22	TRITIUM	0.791	4.450			36.900	pCi/mL
TL 04	SURFACE WATER	11/23/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
TL 04	SURFACE WATER	11/23/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
TL 04	SURFACE WATER	11/23/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000	J		0.171	µg/L
TL 04	SURFACE WATER	11/23/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
TL 04	SURFACE WATER	11/23/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
TL 04	SURFACE WATER	11/23/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	U		1.000	µg/L
TL 04	SURFACE WATER	11/23/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
TL 04	SURFACE WATER	11/23/21	TRICHLOROETHYLENE (TCE)	0.190	1.000	J		0.417	µg/L

Appendix F-1. CAGW OU Lab Data July 2021 through June 2022									
STATION	STATION_TYPE	DATE	ANALYTE	MDL	SQL	LAB QUAL.	REVIEW QUAL.	RESULT	UNITS
TL 05	SURFACE WATER	11/23/21	1,1-DICHLOROETHYLENE	0.188	1.000	U		1.000	µg/L
TL 05	SURFACE WATER	11/23/21	CHLOROETHENE (VINYL CHLORIDE)	0.234	1.000	U		1.000	µg/L
TL 05	SURFACE WATER	11/23/21	CIS-1,2-DICHLOROETHYLENE	0.126	1.000			1.140	µg/L
TL 05	SURFACE WATER	11/23/21	DICHLOROMETHANE (METHYLENE CHLORIDE)	0.430	5.000	U		5.000	µg/L
TL 05	SURFACE WATER	11/23/21	ETHYLENE	10.000	25.000	U		25.000	µg/L
TL 05	SURFACE WATER	11/23/21	TETRACHLOROETHYLENE (PCE)	0.300	1.000	U		1.000	µg/L
TL 05	SURFACE WATER	11/23/21	TRANS-1,2-DICHLOROETHYLENE	0.149	1.000	U		1.000	µg/L
TL 05	SURFACE WATER	11/23/21	TRICHLOROETHYLENE (TCE)	0.190	1.000			2.680	µg/L

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CC 01	12/17/21	AIR TEMPERATURE	Y	18.90	°C	SURFACE WATER
CC 01	6/21/22	AIR TEMPERATURE	Y	21.20	°C	SURFACE WATER
CC 01	12/17/21	FLOW RATE	Y	3.42	gal/min	SURFACE WATER
CC 01	6/21/22	FLOW RATE	Y	1.78	gal/min	SURFACE WATER
CC 01	12/17/21	OXIDATION/REDUCTION POTENTIAL	Y	199.00	mV	SURFACE WATER
CC 01	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	219.00	mV	SURFACE WATER
CC 01	12/17/21	OXYGEN	Y	6.31	mg/L	SURFACE WATER
CC 01	6/21/22	OXYGEN	Y	6.82	mg/L	SURFACE WATER
CC 01	12/17/21	PH	Y	5.70	pH	SURFACE WATER
CC 01	6/21/22	PH	Y	6.60	pH	SURFACE WATER
CC 01	12/17/21	SPECIFIC CONDUCTANCE	Y	25.00	uS/cm	SURFACE WATER
CC 01	6/21/22	SPECIFIC CONDUCTANCE	Y	25.00	uS/cm	SURFACE WATER
CC 01	12/17/21	TOTAL ALKALINITY (AS CaCO3)	Y	7.00	mg/L	SURFACE WATER
CC 01	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	3.00	mg/L	SURFACE WATER
CC 01	12/17/21	TURBIDITY	Y	2.30	NTU	SURFACE WATER
CC 01	6/21/22	TURBIDITY	Y	3.00	NTU	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CC 01	12/17/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 01	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 01	12/17/21	WATER TEMPERATURE	Y	16.70	°C	SURFACE WATER
CC 01	6/21/22	WATER TEMPERATURE	Y	19.30	°C	SURFACE WATER
CC 02	12/17/21	AIR TEMPERATURE	Y	18.30	°C	SURFACE WATER
CC 02	6/21/22	AIR TEMPERATURE	Y	25.00	°C	SURFACE WATER
CC 02	12/17/21	FLOW RATE	Y	2.67	gal/min	SURFACE WATER
CC 02	6/21/22	FLOW RATE	Y	1.48	gal/min	SURFACE WATER
CC 02	12/17/21	OXIDATION/REDUCTION POTENTIAL	Y	185.00	mV	SURFACE WATER
CC 02	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	151.00	mV	SURFACE WATER
CC 02	12/17/21	OXYGEN	Y	6.15	mg/L	SURFACE WATER
CC 02	6/21/22	OXYGEN	Y	7.10	mg/L	SURFACE WATER
CC 02	12/17/21	PH	Y	5.90	pH	SURFACE WATER
CC 02	6/21/22	PH	Y	6.40	pH	SURFACE WATER
CC 02	12/17/21	SPECIFIC CONDUCTANCE	Y	23.00	uS/cm	SURFACE WATER
CC 02	6/21/22	SPECIFIC CONDUCTANCE	Y	22.00	uS/cm	SURFACE WATER
CC 02	12/17/21	TOTAL ALKALINITY (AS CaCO3)	Y	8.00	mg/L	SURFACE WATER
CC 02	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	3.00	mg/L	SURFACE WATER
CC 02	12/17/21	TURBIDITY	Y	1.60	NTU	SURFACE WATER
CC 02	6/21/22	TURBIDITY	Y	1.50	NTU	SURFACE WATER
CC 02	12/17/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 02	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 02	12/17/21	WATER TEMPERATURE	Y	16.60	°C	SURFACE WATER
CC 02	6/21/22	WATER TEMPERATURE	Y	20.10	°C	SURFACE WATER
CC 03	12/17/21	AIR TEMPERATURE	Y	19.30	°C	SURFACE WATER
CC 03	6/21/22	AIR TEMPERATURE	Y	20.30	°C	SURFACE WATER
CC 03	12/17/21	FLOW RATE	Y	6.36	gal/min	SURFACE WATER
CC 03	6/21/22	FLOW RATE	Y	1.69	gal/min	SURFACE WATER
CC 03	12/17/21	OXIDATION/REDUCTION POTENTIAL	Y	92.00	mV	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CC 03	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	157.00	mV	SURFACE WATER
CC 03	12/17/21	OXYGEN	Y	6.50	mg/L	SURFACE WATER
CC 03	6/21/22	OXYGEN	Y	6.40	mg/L	SURFACE WATER
CC 03	12/17/21	PH	Y	6.80	pH	SURFACE WATER
CC 03	6/21/22	PH	Y	5.50	pH	SURFACE WATER
CC 03	12/17/21	SPECIFIC CONDUCTANCE	Y	72.00	uS/cm	SURFACE WATER
CC 03	6/21/22	SPECIFIC CONDUCTANCE	Y	133.00	uS/cm	SURFACE WATER
CC 03	12/17/21	TOTAL ALKALINITY (AS CaCO3)	Y	15.00	mg/L	SURFACE WATER
CC 03	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	24.00	mg/L	SURFACE WATER
CC 03	12/17/21	TURBIDITY	Y	4.80	NTU	SURFACE WATER
CC 03	6/21/22	TURBIDITY	Y	12.70	NTU	SURFACE WATER
CC 03	12/17/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 03	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 03	12/17/21	WATER TEMPERATURE	Y	15.40	°C	SURFACE WATER
CC 03	6/21/22	WATER TEMPERATURE	Y	20.00	°C	SURFACE WATER
CC 04	12/17/21	AIR TEMPERATURE	Y	17.30	°C	SURFACE WATER
CC 04	6/21/22	AIR TEMPERATURE	Y	22.80	°C	SURFACE WATER
CC 04	12/17/21	FLOW RATE	N		gal/min	SURFACE WATER
CC 04	6/21/22	FLOW RATE	Y	0.00	gal/min	SURFACE WATER
CC 04	12/17/21	OXIDATION/REDUCTION POTENTIAL	Y	134.00	mV	SURFACE WATER
CC 04	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	197.00	mV	SURFACE WATER
CC 04	12/17/21	OXYGEN	Y	6.22	mg/L	SURFACE WATER
CC 04	6/21/22	OXYGEN	Y	6.69	mg/L	SURFACE WATER
CC 04	12/17/21	PH	Y	6.40	pH	SURFACE WATER
CC 04	6/21/22	PH	Y	6.80	pH	SURFACE WATER
CC 04	12/17/21	SPECIFIC CONDUCTANCE	Y	57.00	uS/cm	SURFACE WATER
CC 04	6/21/22	SPECIFIC CONDUCTANCE	Y	73.00	uS/cm	SURFACE WATER
CC 04	12/17/21	TOTAL ALKALINITY (AS CaCO3)	Y	11.00	mg/L	SURFACE WATER
CC 04	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	15.00	mg/L	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CC 04	12/17/21	TURBIDITY	Y	3.80	NTU	SURFACE WATER
CC 04	6/21/22	TURBIDITY	Y	5.00	NTU	SURFACE WATER
CC 04	12/17/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 04	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 04	12/17/21	WATER TEMPERATURE	Y	16.20	°C	SURFACE WATER
CC 04	6/21/22	WATER TEMPERATURE	Y	21.20	°C	SURFACE WATER
CC 05	11/16/21	AIR TEMPERATURE	Y	7.80	°C	SURFACE WATER
CC 05	6/21/22	AIR TEMPERATURE	Y	30.90	°C	SURFACE WATER
CC 05	11/16/21	FLOW RATE	Y	1.90	gal/min	SURFACE WATER
CC 05	6/21/22	FLOW RATE	Y	1.64	gal/min	SURFACE WATER
CC 05	11/16/21	OXIDATION/REDUCTION POTENTIAL	Y	221.00	mV	SURFACE WATER
CC 05	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	361.00	mV	SURFACE WATER
CC 05	11/16/21	OXYGEN	Y	2.94	mg/L	SURFACE WATER
CC 05	6/21/22	OXYGEN	Y	1.76	mg/L	SURFACE WATER
CC 05	11/16/21	PH	Y	5.20	pH	SURFACE WATER
CC 05	6/21/22	PH	Y	5.80	pH	SURFACE WATER
CC 05	11/16/21	SPECIFIC CONDUCTANCE	Y	27.00	uS/cm	SURFACE WATER
CC 05	6/21/22	SPECIFIC CONDUCTANCE	Y	23.00	uS/cm	SURFACE WATER
CC 05	11/16/21	TOTAL ALKALINITY (AS CaCO3)	Y	5.00	mg/L	SURFACE WATER
CC 05	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	7.00	mg/L	SURFACE WATER
CC 05	11/16/21	TURBIDITY	Y	0.70	NTU	SURFACE WATER
CC 05	6/21/22	TURBIDITY	Y	1.80	NTU	SURFACE WATER
CC 05	11/16/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 05	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 05	11/16/21	WATER TEMPERATURE	Y	11.10	°C	SURFACE WATER
CC 05	6/21/22	WATER TEMPERATURE	Y	22.60	°C	SURFACE WATER
CC 06	12/17/21	AIR TEMPERATURE	Y	21.30	°C	SURFACE WATER
CC 06	6/21/22	AIR TEMPERATURE	Y	39.10	°C	SURFACE WATER
CC 06	12/17/21	FLOW RATE	Y	1.99	gal/min	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CC 06	6/21/22	FLOW RATE	Y	0.32	gal/min	SURFACE WATER
CC 06	12/17/21	OXIDATION/REDUCTION POTENTIAL	Y	210.00	mV	SURFACE WATER
CC 06	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	249.00	mV	SURFACE WATER
CC 06	12/17/21	OXYGEN	Y	6.88	mg/L	SURFACE WATER
CC 06	6/21/22	OXYGEN	Y	6.45	mg/L	SURFACE WATER
CC 06	12/17/21	PH	Y	6.00	pH	SURFACE WATER
CC 06	6/21/22	PH	Y	5.40	pH	SURFACE WATER
CC 06	12/17/21	SPECIFIC CONDUCTANCE	Y	23.00	uS/cm	SURFACE WATER
CC 06	6/21/22	SPECIFIC CONDUCTANCE	Y	27.00	uS/cm	SURFACE WATER
CC 06	12/17/21	TOTAL ALKALINITY (AS CaCO3)	Y	3.00	mg/L	SURFACE WATER
CC 06	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	2.00	mg/L	SURFACE WATER
CC 06	12/17/21	TURBIDITY	Y	1.00	NTU	SURFACE WATER
CC 06	6/21/22	TURBIDITY	Y	0.90	NTU	SURFACE WATER
CC 06	12/17/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 06	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 06	12/17/21	WATER TEMPERATURE	Y	17.70	°C	SURFACE WATER
CC 06	6/21/22	WATER TEMPERATURE	Y	20.60	°C	SURFACE WATER
CC 07	11/16/21	AIR TEMPERATURE	Y	15.40	°C	SURFACE WATER
CC 07	6/21/22	AIR TEMPERATURE	Y	26.60	°C	SURFACE WATER
CC 07	11/16/21	FLOW RATE	Y	2.25	gal/min	SURFACE WATER
CC 07	6/21/22	FLOW RATE	Y	0.63	gal/min	SURFACE WATER
CC 07	11/16/21	OXIDATION/REDUCTION POTENTIAL	Y	196.00	mV	SURFACE WATER
CC 07	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	303.00	mV	SURFACE WATER
CC 07	11/16/21	OXYGEN	Y	6.69	mg/L	SURFACE WATER
CC 07	6/21/22	OXYGEN	Y	2.22	mg/L	SURFACE WATER
CC 07	11/16/21	PH	Y	6.20	pH	SURFACE WATER
CC 07	6/21/22	PH	Y	5.60	pH	SURFACE WATER
CC 07	11/16/21	SPECIFIC CONDUCTANCE	Y	22.00	uS/cm	SURFACE WATER
CC 07	6/21/22	SPECIFIC CONDUCTANCE	Y	22.00	uS/cm	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CC 07	11/16/21	TOTAL ALKALINITY (AS CaCO3)	Y	6.00	mg/L	SURFACE WATER
CC 07	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	4.00	mg/L	SURFACE WATER
CC 07	11/16/21	TURBIDITY	Y	0.80	NTU	SURFACE WATER
CC 07	6/21/22	TURBIDITY	Y	2.70	NTU	SURFACE WATER
CC 07	11/16/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 07	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 07	11/16/21	WATER TEMPERATURE	Y	11.90	°C	SURFACE WATER
CC 07	6/21/22	WATER TEMPERATURE	Y	19.20	°C	SURFACE WATER
CC 08	11/16/21	AIR TEMPERATURE	Y	11.10	°C	SURFACE WATER
CC 08	6/21/22	AIR TEMPERATURE	Y	28.10	°C	SURFACE WATER
CC 08	11/16/21	FLOW RATE	Y	2.35	gal/min	SURFACE WATER
CC 08	6/21/22	FLOW RATE	Y	2.04	gal/min	SURFACE WATER
CC 08	11/16/21	OXIDATION/REDUCTION POTENTIAL	Y	200.00	mV	SURFACE WATER
CC 08	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	334.00	mV	SURFACE WATER
CC 08	11/16/21	OXYGEN	Y	3.55	mg/L	SURFACE WATER
CC 08	6/21/22	OXYGEN	Y	2.11	mg/L	SURFACE WATER
CC 08	11/16/21	PH	Y	5.50	pH	SURFACE WATER
CC 08	6/21/22	PH	Y	5.70	pH	SURFACE WATER
CC 08	11/16/21	SPECIFIC CONDUCTANCE	Y	22.00	uS/cm	SURFACE WATER
CC 08	6/21/22	SPECIFIC CONDUCTANCE	Y	21.00	uS/cm	SURFACE WATER
CC 08	11/16/21	TOTAL ALKALINITY (AS CaCO3)	Y	6.00	mg/L	SURFACE WATER
CC 08	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	6.00	mg/L	SURFACE WATER
CC 08	11/16/21	TURBIDITY	Y	0.70	NTU	SURFACE WATER
CC 08	6/21/22	TURBIDITY	Y	2.70	NTU	SURFACE WATER
CC 08	11/16/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 08	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CC 08	11/16/21	WATER TEMPERATURE	Y	11.50	°C	SURFACE WATER
CC 08	6/21/22	WATER TEMPERATURE	Y	19.40	°C	SURFACE WATER
CCSL-08	6/14/22	AIR TEMPERATURE	Y	24.90	°C	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CCSL-08	11/29/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-08	6/14/22	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-08	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	94.00	mV	GROUNDWATER
CCSL-08	6/14/22	OXIDATION/REDUCTION POTENTIAL	Y	201.00	mV	GROUNDWATER
CCSL-08	11/29/21	OXYGEN	Y	4.58	mg/L	GROUNDWATER
CCSL-08	6/14/22	OXYGEN	Y	4.25	mg/L	GROUNDWATER
CCSL-08	11/29/21	PH	Y	5.70	pH	GROUNDWATER
CCSL-08	6/14/22	PH	Y	5.20	pH	GROUNDWATER
CCSL-08	6/14/22	SPECIFIC CONDUCTANCE	Y	24.00	uS/cm	GROUNDWATER
CCSL-08	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	10.00	mg/L	GROUNDWATER
CCSL-08	6/14/22	TOTAL ALKALINITY (AS CaCO3)	Y	2.00	mg/L	GROUNDWATER
CCSL-08	11/29/21	TURBIDITY	Y	7.90	NTU	GROUNDWATER
CCSL-08	6/14/22	TURBIDITY	Y	7.00	NTU	GROUNDWATER
CCSL-08	11/29/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CCSL-08	6/14/22	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CCSL-08	6/14/22	WATER TEMPERATURE	Y	26.50	°C	GROUNDWATER
CCSL-11	11/29/21	AIR TEMPERATURE	Y	12.80	°C	GROUNDWATER
CCSL-11	11/29/21	AIR TEMPERATURE	Y	13.30	°C	GROUNDWATER
CCSL-11	6/14/22	AIR TEMPERATURE	Y	24.90	°C	GROUNDWATER
CCSL-11	11/29/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-11	6/14/22	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-11	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	78.00	mV	GROUNDWATER
CCSL-11	6/14/22	OXIDATION/REDUCTION POTENTIAL	Y	245.00	mV	GROUNDWATER
CCSL-11	11/29/21	OXYGEN	Y	5.10	mg/L	GROUNDWATER
CCSL-11	6/14/22	OXYGEN	Y	3.17	mg/L	GROUNDWATER
CCSL-11	11/29/21	PH	Y	6.30	pH	GROUNDWATER
CCSL-11	6/14/22	PH	Y	5.90	pH	GROUNDWATER
CCSL-11	11/29/21	SPECIFIC CONDUCTANCE	Y	34.00	uS/cm	GROUNDWATER
CCSL-11	11/29/21	SPECIFIC CONDUCTANCE	Y	49.00	uS/cm	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CCSL-11	6/14/22	SPECIFIC CONDUCTANCE	Y	163.00	uS/cm	GROUNDWATER
CCSL-11	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	14.00	mg/L	GROUNDWATER
CCSL-11	6/14/22	TOTAL ALKALINITY (AS CaCO3)	Y	13.00	mg/L	GROUNDWATER
CCSL-11	11/29/21	TURBIDITY	Y	106.00	NTU	GROUNDWATER
CCSL-11	6/14/22	TURBIDITY	Y	19.40	NTU	GROUNDWATER
CCSL-11	11/29/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CCSL-11	6/14/22	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CCSL-11	11/29/21	WATER TEMPERATURE	Y	14.70	°C	GROUNDWATER
CCSL-11	11/29/21	WATER TEMPERATURE	Y	14.10	°C	GROUNDWATER
CCSL-11	6/14/22	WATER TEMPERATURE	Y	24.10	°C	GROUNDWATER
CCSL-14	11/29/21	AIR TEMPERATURE	Y	7.80	°C	GROUNDWATER
CCSL-14	6/13/22	AIR TEMPERATURE	Y	25.50	°C	GROUNDWATER
CCSL-14	11/29/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-14	6/13/22	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-14	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	71.00	mV	GROUNDWATER
CCSL-14	6/13/22	OXIDATION/REDUCTION POTENTIAL	Y	245.00	mV	GROUNDWATER
CCSL-14	11/29/21	OXYGEN	Y	4.77	mg/L	GROUNDWATER
CCSL-14	6/13/22	OXYGEN	Y	11.83	mg/L	GROUNDWATER
CCSL-14	11/29/21	PH	Y	5.90	pH	GROUNDWATER
CCSL-14	6/13/22	PH	Y	4.90	pH	GROUNDWATER
CCSL-14	11/29/21	SPECIFIC CONDUCTANCE	Y	22.00	uS/cm	GROUNDWATER
CCSL-14	6/13/22	SPECIFIC CONDUCTANCE	Y	21.00	uS/cm	GROUNDWATER
CCSL-14	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	12.00	mg/L	GROUNDWATER
CCSL-14	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CCSL-14	11/29/21	TURBIDITY	Y	27.80	NTU	GROUNDWATER
CCSL-14	6/13/22	TURBIDITY	Y	4.30	NTU	GROUNDWATER
CCSL-14	11/29/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CCSL-14	6/13/22	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CCSL-14	11/29/21	WATER TEMPERATURE	Y	9.80	°C	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CCSL-14	6/13/22	WATER TEMPERATURE	Y	21.90	°C	GROUNDWATER
CCSL-21R	12/15/21	AIR TEMPERATURE	Y	20.30	°C	GROUNDWATER
CCSL-21R	6/13/22	AIR TEMPERATURE	Y	29.10	°C	GROUNDWATER
CCSL-21R	12/15/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-21R	6/13/22	FLOW RATE	N		gal/min	GROUNDWATER
CCSL-21R	12/15/21	OXIDATION/REDUCTION POTENTIAL	Y	258.00	mV	GROUNDWATER
CCSL-21R	12/15/21	OXYGEN	Y	6.11	mg/L	GROUNDWATER
CCSL-21R	12/15/21	PH	Y	3.90	pH	GROUNDWATER
CCSL-21R	6/13/22	PH	N		pH	GROUNDWATER
CCSL-21R	12/15/21	SPECIFIC CONDUCTANCE	Y	58.00	uS/cm	GROUNDWATER
CCSL-21R	6/13/22	SPECIFIC CONDUCTANCE	N		uS/cm	GROUNDWATER
CCSL-21R	12/15/21	TOTAL ALKALINITY (AS CaCO ₃)	Y	0.00	mg/L	GROUNDWATER
CCSL-21R	6/13/22	TOTAL ALKALINITY (AS CaCO ₃)	N		mg/L	GROUNDWATER
CCSL-21R	12/15/21	TURBIDITY	Y	7.30	NTU	GROUNDWATER
CCSL-21R	6/13/22	TURBIDITY	N		NTU	GROUNDWATER
CCSL-21R	12/15/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CCSL-21R	6/13/22	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CCSL-21R	12/15/21	WATER TEMPERATURE	Y	14.10	°C	GROUNDWATER
CCSL-21R	6/13/22	WATER TEMPERATURE	N		°C	GROUNDWATER
CCSL-22R	12/15/21	AIR TEMPERATURE	Y	12.40	°C	GROUNDWATER
CCSL-22R	6/14/22	AIR TEMPERATURE	Y	33.90	°C	GROUNDWATER
CCSL-22R	12/15/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-22R	6/14/22	FLOW RATE	N		gal/min	GROUNDWATER
CCSL-22R	12/15/21	OXIDATION/REDUCTION POTENTIAL	Y	237.00	mV	GROUNDWATER
CCSL-22R	12/15/21	OXYGEN	Y	7.35	mg/L	GROUNDWATER
CCSL-22R	12/15/21	PH	Y	5.40	pH	GROUNDWATER
CCSL-22R	6/14/22	PH	N		pH	GROUNDWATER
CCSL-22R	12/15/21	SPECIFIC CONDUCTANCE	Y	39.00	uS/cm	GROUNDWATER
CCSL-22R	6/14/22	SPECIFIC CONDUCTANCE	N		uS/cm	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CCSL-22R	12/15/21	TOTAL ALKALINITY (AS CaCO3)	Y	1.00	mg/L	GROUNDWATER
CCSL-22R	6/14/22	TOTAL ALKALINITY (AS CaCO3)	N		mg/L	GROUNDWATER
CCSL-22R	12/15/21	TURBIDITY	Y	9.30	NTU	GROUNDWATER
CCSL-22R	6/14/22	TURBIDITY	N		NTU	GROUNDWATER
CCSL-22R	12/15/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CCSL-22R	6/14/22	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CCSL-22R	12/15/21	WATER TEMPERATURE	Y	8.70	°C	GROUNDWATER
CCSL-22R	6/14/22	WATER TEMPERATURE	N		°C	GROUNDWATER
CCSL-23R	11/29/21	AIR TEMPERATURE	Y	4.40	°C	GROUNDWATER
CCSL-23R	6/14/22	AIR TEMPERATURE	Y	33.90	°C	GROUNDWATER
CCSL-23R	11/29/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-23R	6/14/22	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CCSL-23R	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	94.00	mV	GROUNDWATER
CCSL-23R	6/14/22	OXIDATION/REDUCTION POTENTIAL	Y	333.00	mV	GROUNDWATER
CCSL-23R	11/29/21	OXYGEN	Y	4.65	mg/L	GROUNDWATER
CCSL-23R	6/14/22	OXYGEN	Y	2.71	mg/L	GROUNDWATER
CCSL-23R	11/29/21	PH	Y	4.60	pH	GROUNDWATER
CCSL-23R	6/14/22	PH	Y	4.90	pH	GROUNDWATER
CCSL-23R	11/29/21	SPECIFIC CONDUCTANCE	Y	42.00	uS/cm	GROUNDWATER
CCSL-23R	6/14/22	SPECIFIC CONDUCTANCE	Y	29.00	uS/cm	GROUNDWATER
CCSL-23R	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CCSL-23R	6/14/22	TOTAL ALKALINITY (AS CaCO3)	N		mg/L	GROUNDWATER
CCSL-23R	11/29/21	TURBIDITY	Y	8.80	NTU	GROUNDWATER
CCSL-23R	6/14/22	TURBIDITY	Y	11.70	NTU	GROUNDWATER
CCSL-23R	11/29/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CCSL-23R	6/14/22	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CCSL-23R	11/29/21	WATER TEMPERATURE	Y	6.40	°C	GROUNDWATER
CCSL-23R	6/14/22	WATER TEMPERATURE	Y	24.70	°C	GROUNDWATER
CCT 01	11/16/21	AIR TEMPERATURE	Y	15.80	°C	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CCT 01	6/21/22	AIR TEMPERATURE	Y	26.00	°C	SURFACE WATER
CCT 01	11/16/21	FLOW RATE	Y	0.25	gal/min	SURFACE WATER
CCT 01	6/21/22	FLOW RATE	Y	0.45	gal/min	SURFACE WATER
CCT 01	11/16/21	OXIDATION/REDUCTION POTENTIAL	Y	160.00	mV	SURFACE WATER
CCT 01	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	218.00	mV	SURFACE WATER
CCT 01	11/16/21	OXYGEN	Y	5.84	mg/L	SURFACE WATER
CCT 01	6/21/22	OXYGEN	Y	2.33	mg/L	SURFACE WATER
CCT 01	11/16/21	PH	Y	6.00	pH	SURFACE WATER
CCT 01	6/21/22	PH	Y	5.50	pH	SURFACE WATER
CCT 01	11/16/21	SPECIFIC CONDUCTANCE	Y	24.00	uS/cm	SURFACE WATER
CCT 01	6/21/22	SPECIFIC CONDUCTANCE	Y	20.00	uS/cm	SURFACE WATER
CCT 01	11/16/21	TOTAL ALKALINITY (AS CaCO ₃)	Y	7.00	mg/L	SURFACE WATER
CCT 01	6/21/22	TOTAL ALKALINITY (AS CaCO ₃)	Y	4.00	mg/L	SURFACE WATER
CCT 01	11/16/21	TURBIDITY	Y	2.70	NTU	SURFACE WATER
CCT 01	6/21/22	TURBIDITY	Y	4.60	NTU	SURFACE WATER
CCT 01	11/16/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CCT 01	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CCT 01	11/16/21	WATER TEMPERATURE	Y	13.80	°C	SURFACE WATER
CCT 01	6/21/22	WATER TEMPERATURE	Y	19.00	°C	SURFACE WATER
CCT 02	11/16/21	AIR TEMPERATURE	Y	17.80	°C	SURFACE WATER
CCT 02	6/21/22	AIR TEMPERATURE	Y	26.00	°C	SURFACE WATER
CCT 02	11/16/21	FLOW RATE	Y	0.06	gal/min	SURFACE WATER
CCT 02	6/21/22	FLOW RATE	Y	0.01	gal/min	SURFACE WATER
CCT 02	11/16/21	OXIDATION/REDUCTION POTENTIAL	Y	201.00	mV	SURFACE WATER
CCT 02	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	341.00	mV	SURFACE WATER
CCT 02	11/16/21	OXYGEN	Y	3.76	mg/L	SURFACE WATER
CCT 02	6/21/22	OXYGEN	Y	2.19	mg/L	SURFACE WATER
CCT 02	11/16/21	PH	Y	5.80	pH	SURFACE WATER
CCT 02	6/21/22	PH	Y	5.30	pH	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CCT 02	11/16/21	SPECIFIC CONDUCTANCE	Y	20.00	uS/cm	SURFACE WATER
CCT 02	6/21/22	SPECIFIC CONDUCTANCE	Y	19.00	uS/cm	SURFACE WATER
CCT 02	11/16/21	TOTAL ALKALINITY (AS CaCO3)	Y	5.00	mg/L	SURFACE WATER
CCT 02	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	2.00	mg/L	SURFACE WATER
CCT 02	11/16/21	TURBIDITY	Y	2.40	NTU	SURFACE WATER
CCT 02	6/21/22	TURBIDITY	Y	1.50	NTU	SURFACE WATER
CCT 02	11/16/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CCT 02	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CCT 02	11/16/21	WATER TEMPERATURE	Y	12.50	°C	SURFACE WATER
CCT 02	6/21/22	WATER TEMPERATURE	Y	19.40	°C	SURFACE WATER
CCT 03	11/16/21	AIR TEMPERATURE	Y	17.80	°C	SURFACE WATER
CCT 03	6/21/22	AIR TEMPERATURE	Y	25.80	°C	SURFACE WATER
CCT 03	11/16/21	FLOW RATE	Y	0.10	gal/min	SURFACE WATER
CCT 03	6/21/22	FLOW RATE	Y	0.05	gal/min	SURFACE WATER
CCT 03	11/16/21	OXIDATION/REDUCTION POTENTIAL	Y	220.00	mV	SURFACE WATER
CCT 03	6/21/22	OXIDATION/REDUCTION POTENTIAL	Y	376.00	mV	SURFACE WATER
CCT 03	11/16/21	OXYGEN	Y	4.30	mg/L	SURFACE WATER
CCT 03	6/21/22	OXYGEN	Y	2.81	mg/L	SURFACE WATER
CCT 03	11/16/21	PH	Y	5.70	pH	SURFACE WATER
CCT 03	6/21/22	PH	Y	5.40	pH	SURFACE WATER
CCT 03	11/16/21	SPECIFIC CONDUCTANCE	Y	20.00	uS/cm	SURFACE WATER
CCT 03	6/21/22	SPECIFIC CONDUCTANCE	Y	29.00	uS/cm	SURFACE WATER
CCT 03	11/16/21	TOTAL ALKALINITY (AS CaCO3)	Y	5.00	mg/L	SURFACE WATER
CCT 03	6/21/22	TOTAL ALKALINITY (AS CaCO3)	Y	2.00	mg/L	SURFACE WATER
CCT 03	11/16/21	TURBIDITY	Y	1.20	NTU	SURFACE WATER
CCT 03	6/21/22	TURBIDITY	Y	1.50	NTU	SURFACE WATER
CCT 03	11/16/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CCT 03	6/21/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
CCT 03	11/16/21	WATER TEMPERATURE	Y	13.60	°C	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CCT 03	6/21/22	WATER TEMPERATURE	Y	19.40	°C	SURFACE WATER
CDB 1	12/6/21	AIR TEMPERATURE	Y	15.60	°C	GROUNDWATER
CDB 1	12/6/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CDB 1	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	246.00	mV	GROUNDWATER
CDB 1	12/6/21	OXYGEN	Y	6.04	mg/L	GROUNDWATER
CDB 1	12/6/21	PH	Y	5.40	pH	GROUNDWATER
CDB 1	12/6/21	SPECIFIC CONDUCTANCE	Y	56.00	uS/cm	GROUNDWATER
CDB 1	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	2.00	mg/L	GROUNDWATER
CDB 1	12/6/21	TURBIDITY	Y	0.50	NTU	GROUNDWATER
CDB 1	12/6/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CDB 1	12/6/21	WATER TEMPERATURE	Y	20.50	°C	GROUNDWATER
CDB 2	12/6/21	AIR TEMPERATURE	Y	17.10	°C	GROUNDWATER
CDB 2	12/6/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CDB 2	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	256.00	mV	GROUNDWATER
CDB 2	12/6/21	OXYGEN	Y	8.00	mg/L	GROUNDWATER
CDB 2	12/6/21	PH	Y	5.10	pH	GROUNDWATER
CDB 2	12/6/21	SPECIFIC CONDUCTANCE	Y	40.00	uS/cm	GROUNDWATER
CDB 2	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	1.00	mg/L	GROUNDWATER
CDB 2	12/6/21	TURBIDITY	Y	0.60	NTU	GROUNDWATER
CDB 2	12/6/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CDB 2	12/6/21	WATER TEMPERATURE	Y	20.10	°C	GROUNDWATER
CDB003D	12/6/21	AIR TEMPERATURE	Y	22.70	°C	GROUNDWATER
CDB003D	12/6/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CDB003D	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	251.00	mV	GROUNDWATER
CDB003D	12/6/21	OXYGEN	Y	7.29	mg/L	GROUNDWATER
CDB003D	12/6/21	PH	Y	4.90	pH	GROUNDWATER
CDB003D	12/6/21	SPECIFIC CONDUCTANCE	Y	42.00	uS/cm	GROUNDWATER
CDB003D	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CDB003D	12/6/21	TURBIDITY	Y	1.00	NTU	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CDB003D	12/6/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CDB003D	12/6/21	WATER TEMPERATURE	Y	20.80	°C	GROUNDWATER
CRW 1A	12/7/21	AIR TEMPERATURE	Y	9.80	°C	GROUNDWATER
CRW 1A	6/14/22	AIR TEMPERATURE	Y	28.60	°C	GROUNDWATER
CRW 1A	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CRW 1A	6/14/22	FLOW RATE	N		gal/min	GROUNDWATER
CRW 1A	12/7/21	PH	N		pH	GROUNDWATER
CRW 1A	6/14/22	PH	N		pH	GROUNDWATER
CRW 1A	12/7/21	SPECIFIC CONDUCTANCE	N		uS/cm	GROUNDWATER
CRW 1A	6/14/22	SPECIFIC CONDUCTANCE	N		uS/cm	GROUNDWATER
CRW 1A	12/7/21	TOTAL ALKALINITY (AS CaCO3)	N		mg/L	GROUNDWATER
CRW 1A	6/14/22	TOTAL ALKALINITY (AS CaCO3)	N		mg/L	GROUNDWATER
CRW 1A	12/7/21	TURBIDITY	N		NTU	GROUNDWATER
CRW 1A	6/14/22	TURBIDITY	N		NTU	GROUNDWATER
CRW 1A	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CRW 1A	6/14/22	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CRW 1A	12/7/21	WATER TEMPERATURE	N		°C	GROUNDWATER
CRW 1A	6/14/22	WATER TEMPERATURE	N		°C	GROUNDWATER
CRW 1D	12/6/21	AIR TEMPERATURE	Y	13.90	°C	GROUNDWATER
CRW 1D	6/14/22	AIR TEMPERATURE	Y	32.80	°C	GROUNDWATER
CRW 1D	12/6/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 1D	6/14/22	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 1D	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	113.00	mV	GROUNDWATER
CRW 1D	6/14/22	OXIDATION/REDUCTION POTENTIAL	Y	152.00	mV	GROUNDWATER
CRW 1D	12/6/21	OXYGEN	Y	6.46	mg/L	GROUNDWATER
CRW 1D	6/14/22	OXYGEN	Y	4.70	mg/L	GROUNDWATER
CRW 1D	12/6/21	PH	Y	5.70	pH	GROUNDWATER
CRW 1D	6/14/22	PH	Y	5.70	pH	GROUNDWATER
CRW 1D	12/6/21	SPECIFIC CONDUCTANCE	Y	22.00	uS/cm	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW 1D	6/14/22	SPECIFIC CONDUCTANCE	Y	24.00	uS/cm	GROUNDWATER
CRW 1D	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	7.00	mg/L	GROUNDWATER
CRW 1D	6/14/22	TOTAL ALKALINITY (AS CaCO3)	Y	10.00	mg/L	GROUNDWATER
CRW 1D	12/6/21	TURBIDITY	Y	0.80	NTU	GROUNDWATER
CRW 1D	6/14/22	TURBIDITY	Y	0.80	NTU	GROUNDWATER
CRW 1D	12/6/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW 1D	6/14/22	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW 1D	12/6/21	WATER TEMPERATURE	Y	17.70	°C	GROUNDWATER
CRW 1D	6/14/22	WATER TEMPERATURE	Y	20.20	°C	GROUNDWATER
CRW 4A	12/6/21	AIR TEMPERATURE	Y	15.50	°C	GROUNDWATER
CRW 4A	12/6/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW 4A	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	80.00	mV	GROUNDWATER
CRW 4A	12/6/21	OXYGEN	Y	0.10	mg/L	GROUNDWATER
CRW 4A	12/6/21	PH	Y	7.10	pH	GROUNDWATER
CRW 4A	12/6/21	SPECIFIC CONDUCTANCE	Y	137.00	uS/cm	GROUNDWATER
CRW 4A	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	62.00	mg/L	GROUNDWATER
CRW 4A	12/6/21	TURBIDITY	Y	3.60	NTU	GROUNDWATER
CRW 4A	12/6/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CRW 4A	12/6/21	WATER TEMPERATURE	Y	19.00	°C	GROUNDWATER
CRW 4C	12/6/21	AIR TEMPERATURE	Y	18.30	°C	GROUNDWATER
CRW 4C	12/6/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 4C	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	75.00	mV	GROUNDWATER
CRW 4C	12/6/21	OXYGEN	Y	5.58	mg/L	GROUNDWATER
CRW 4C	12/6/21	PH	Y	7.10	pH	GROUNDWATER
CRW 4C	12/6/21	SPECIFIC CONDUCTANCE	Y	128.00	uS/cm	GROUNDWATER
CRW 4C	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	61.00	mg/L	GROUNDWATER
CRW 4C	12/6/21	TURBIDITY	Y	1.40	NTU	GROUNDWATER
CRW 4C	12/6/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CRW 4C	12/6/21	WATER TEMPERATURE	Y	20.80	°C	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW 4D	12/6/21	AIR TEMPERATURE	Y	17.90	°C	GROUNDWATER
CRW 4D	12/6/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW 4D	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	190.00	mV	GROUNDWATER
CRW 4D	12/6/21	OXYGEN	Y	2.76	mg/L	GROUNDWATER
CRW 4D	12/6/21	PH	Y	6.10	pH	GROUNDWATER
CRW 4D	12/6/21	SPECIFIC CONDUCTANCE	Y	36.00	uS/cm	GROUNDWATER
CRW 4D	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	16.00	mg/L	GROUNDWATER
CRW 4D	12/6/21	TURBIDITY	Y	11.10	NTU	GROUNDWATER
CRW 4D	12/6/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CRW 4D	12/6/21	WATER TEMPERATURE	Y	19.80	°C	GROUNDWATER
CRW 5A	12/6/21	AIR TEMPERATURE	Y	22.10	°C	GROUNDWATER
CRW 5A	12/6/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW 5A	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	92.00	mV	GROUNDWATER
CRW 5A	12/6/21	OXYGEN	Y	5.96	mg/L	GROUNDWATER
CRW 5A	12/6/21	PH	Y	8.20	pH	GROUNDWATER
CRW 5A	12/6/21	SPECIFIC CONDUCTANCE	Y	158.00	uS/cm	GROUNDWATER
CRW 5A	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	62.00	mg/L	GROUNDWATER
CRW 5A	12/6/21	TURBIDITY	Y	4.50	NTU	GROUNDWATER
CRW 5A	12/6/21	VOLUME PURGED	Y	3.00	gal	GROUNDWATER
CRW 5A	12/6/21	WATER TEMPERATURE	Y	20.60	°C	GROUNDWATER
CRW 5D	12/6/21	AIR TEMPERATURE	Y	20.60	°C	GROUNDWATER
CRW 5D	12/6/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 5D	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	144.00	mV	GROUNDWATER
CRW 5D	12/6/21	OXYGEN	Y	6.22	mg/L	GROUNDWATER
CRW 5D	12/6/21	PH	Y	5.00	pH	GROUNDWATER
CRW 5D	12/6/21	SPECIFIC CONDUCTANCE	Y	66.00	uS/cm	GROUNDWATER
CRW 5D	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW 5D	12/6/21	TURBIDITY	Y	1.00	NTU	GROUNDWATER
CRW 5D	12/6/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW 5D	12/6/21	WATER TEMPERATURE	Y	20.90	°C	GROUNDWATER
CRW 7A	12/6/21	AIR TEMPERATURE	Y	23.40	°C	GROUNDWATER
CRW 7A	12/6/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW 7A	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	-5.00	mV	GROUNDWATER
CRW 7A	12/6/21	OXYGEN	Y	6.14	mg/L	GROUNDWATER
CRW 7A	12/6/21	PH	Y	6.80	pH	GROUNDWATER
CRW 7A	12/6/21	SPECIFIC CONDUCTANCE	Y	129.00	uS/cm	GROUNDWATER
CRW 7A	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	53.00	mg/L	GROUNDWATER
CRW 7A	12/6/21	TURBIDITY	Y	19.20	NTU	GROUNDWATER
CRW 7A	12/6/21	VOLUME PURGED	Y	3.00	gal	GROUNDWATER
CRW 7A	12/6/21	WATER TEMPERATURE	Y	21.10	°C	GROUNDWATER
CRW 7D	12/6/21	AIR TEMPERATURE	Y	16.10	°C	GROUNDWATER
CRW 7D	12/6/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 7D	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	130.00	mV	GROUNDWATER
CRW 7D	12/6/21	OXYGEN	Y	5.90	mg/L	GROUNDWATER
CRW 7D	12/6/21	PH	Y	5.10	pH	GROUNDWATER
CRW 7D	12/6/21	SPECIFIC CONDUCTANCE	Y	57.00	uS/cm	GROUNDWATER
CRW 7D	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	4.00	mg/L	GROUNDWATER
CRW 7D	12/6/21	TURBIDITY	Y	1.20	NTU	GROUNDWATER
CRW 7D	12/6/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW 7D	12/6/21	WATER TEMPERATURE	Y	20.30	°C	GROUNDWATER
CRW 9A	12/6/21	AIR TEMPERATURE	Y	11.40	°C	GROUNDWATER
CRW 9A	12/6/21	FLOW RATE	Y	1.00	gal/min	GROUNDWATER
CRW 9A	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	143.00	mV	GROUNDWATER
CRW 9A	12/6/21	OXYGEN	Y	4.30	mg/L	GROUNDWATER
CRW 9A	12/6/21	PH	Y	6.30	pH	GROUNDWATER
CRW 9A	12/6/21	SPECIFIC CONDUCTANCE	Y	145.00	uS/cm	GROUNDWATER
CRW 9A	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	58.00	mg/L	GROUNDWATER
CRW 9A	12/6/21	TURBIDITY	Y	0.80	NTU	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW 9A	12/6/21	VOLUME PURGED	Y	44.00	gal	GROUNDWATER
CRW 9A	12/6/21	WATER TEMPERATURE	Y	18.70	°C	GROUNDWATER
CRW 10A	12/6/21	AIR TEMPERATURE	Y	23.90	°C	GROUNDWATER
CRW 10A	12/6/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW 10A	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	-15.00	mV	GROUNDWATER
CRW 10A	12/6/21	OXYGEN	Y	4.92	mg/L	GROUNDWATER
CRW 10A	12/6/21	PH	Y	6.90	pH	GROUNDWATER
CRW 10A	12/6/21	SPECIFIC CONDUCTANCE	Y	125.00	uS/cm	GROUNDWATER
CRW 10A	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	47.00	mg/L	GROUNDWATER
CRW 10A	12/6/21	TURBIDITY	Y	27.20	NTU	GROUNDWATER
CRW 10A	12/6/21	VOLUME PURGED	Y	4.00	gal	GROUNDWATER
CRW 10A	12/6/21	WATER TEMPERATURE	Y	18.70	°C	GROUNDWATER
CRW 10C	12/7/21	AIR TEMPERATURE	Y	13.20	°C	GROUNDWATER
CRW 10C	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 10C	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	222.00	mV	GROUNDWATER
CRW 10C	12/7/21	OXYGEN	Y	4.90	mg/L	GROUNDWATER
CRW 10C	12/7/21	PH	Y	6.20	pH	GROUNDWATER
CRW 10C	12/7/21	SPECIFIC CONDUCTANCE	Y	23.00	uS/cm	GROUNDWATER
CRW 10C	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	18.00	mg/L	GROUNDWATER
CRW 10C	12/7/21	TURBIDITY	Y	2.10	NTU	GROUNDWATER
CRW 10C	12/7/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW 10C	12/7/21	WATER TEMPERATURE	Y	17.90	°C	GROUNDWATER
CRW 11A	12/7/21	AIR TEMPERATURE	Y	16.70	°C	GROUNDWATER
CRW 11A	12/7/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW 11A	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	175.00	mV	GROUNDWATER
CRW 11A	12/7/21	OXYGEN	Y	4.35	mg/L	GROUNDWATER
CRW 11A	12/7/21	PH	Y	6.50	pH	GROUNDWATER
CRW 11A	12/7/21	SPECIFIC CONDUCTANCE	Y	112.00	uS/cm	GROUNDWATER
CRW 11A	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	59.00	mg/L	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW 11A	12/7/21	TURBIDITY	Y	1.00	NTU	GROUNDWATER
CRW 11A	12/7/21	VOLUME PURGED	Y	3.00	gal	GROUNDWATER
CRW 11A	12/7/21	WATER TEMPERATURE	Y	19.80	°C	GROUNDWATER
CRW 11D	12/6/21	AIR TEMPERATURE	Y	15.20	°C	GROUNDWATER
CRW 11D	12/6/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 11D	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	239.00	mV	GROUNDWATER
CRW 11D	12/6/21	OXYGEN	Y	4.10	mg/L	GROUNDWATER
CRW 11D	12/6/21	PH	Y	5.30	pH	GROUNDWATER
CRW 11D	12/6/21	SPECIFIC CONDUCTANCE	Y	23.00	uS/cm	GROUNDWATER
CRW 11D	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	6.00	mg/L	GROUNDWATER
CRW 11D	12/6/21	TURBIDITY	Y	0.90	NTU	GROUNDWATER
CRW 11D	12/6/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW 11D	12/6/21	WATER TEMPERATURE	Y	19.20	°C	GROUNDWATER
CRW 13A	12/6/21	AIR TEMPERATURE	Y	18.70	°C	GROUNDWATER
CRW 13A	12/6/21	FLOW RATE	Y	2.00	gal/min	GROUNDWATER
CRW 13A	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	36.00	mV	GROUNDWATER
CRW 13A	12/6/21	OXYGEN	Y	4.20	mg/L	GROUNDWATER
CRW 13A	12/6/21	PH	Y	6.10	pH	GROUNDWATER
CRW 13A	12/6/21	SPECIFIC CONDUCTANCE	Y	143.00	uS/cm	GROUNDWATER
CRW 13A	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	49.00	mg/L	GROUNDWATER
CRW 13A	12/6/21	TURBIDITY	Y	0.60	NTU	GROUNDWATER
CRW 13A	12/6/21	VOLUME PURGED	Y	39.00	gal	GROUNDWATER
CRW 13A	12/6/21	WATER TEMPERATURE	Y	19.20	°C	GROUNDWATER
CRW 14A	12/6/21	AIR TEMPERATURE	Y	23.10	°C	GROUNDWATER
CRW 14A	12/6/21	FLOW RATE	Y	1.00	gal/min	GROUNDWATER
CRW 14A	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	152.00	mV	GROUNDWATER
CRW 14A	12/6/21	OXYGEN	Y	4.30	mg/L	GROUNDWATER
CRW 14A	12/6/21	PH	Y	6.30	pH	GROUNDWATER
CRW 14A	12/6/21	SPECIFIC CONDUCTANCE	Y	118.00	uS/cm	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW 14A	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	38.00	mg/L	GROUNDWATER
CRW 14A	12/6/21	TURBIDITY	Y	0.60	NTU	GROUNDWATER
CRW 14A	12/6/21	VOLUME PURGED	Y	25.00	gal	GROUNDWATER
CRW 14A	12/6/21	WATER TEMPERATURE	Y	18.50	°C	GROUNDWATER
CRW 15A	12/7/21	AIR TEMPERATURE	Y	15.20	°C	GROUNDWATER
CRW 15A	12/7/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW 15A	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	35.00	mV	GROUNDWATER
CRW 15A	12/7/21	OXYGEN	Y	3.91	mg/L	GROUNDWATER
CRW 15A	12/7/21	PH	Y	6.70	pH	GROUNDWATER
CRW 15A	12/7/21	SPECIFIC CONDUCTANCE	Y	109.00	uS/cm	GROUNDWATER
CRW 15A	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	47.00	mg/L	GROUNDWATER
CRW 15A	12/7/21	TURBIDITY	Y	0.80	NTU	GROUNDWATER
CRW 15A	12/7/21	VOLUME PURGED	Y	3.00	gal	GROUNDWATER
CRW 15A	12/7/21	WATER TEMPERATURE	Y	18.40	°C	GROUNDWATER
CRW 15C	12/7/21	AIR TEMPERATURE	Y	16.10	°C	GROUNDWATER
CRW 15C	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 15C	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	30.00	mV	GROUNDWATER
CRW 15C	12/7/21	OXYGEN	Y	3.80	mg/L	GROUNDWATER
CRW 15C	12/7/21	PH	Y	6.40	pH	GROUNDWATER
CRW 15C	12/7/21	SPECIFIC CONDUCTANCE	Y	98.00	uS/cm	GROUNDWATER
CRW 15C	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	32.00	mg/L	GROUNDWATER
CRW 15C	12/7/21	TURBIDITY	Y	7.70	NTU	GROUNDWATER
CRW 15C	12/7/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW 15C	12/7/21	WATER TEMPERATURE	Y	18.20	°C	GROUNDWATER
CRW 15D	12/7/21	AIR TEMPERATURE	Y	16.30	°C	GROUNDWATER
CRW 15D	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 15D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	119.00	mV	GROUNDWATER
CRW 15D	12/7/21	OXYGEN	Y	3.70	mg/L	GROUNDWATER
CRW 15D	12/7/21	PH	Y	6.00	pH	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW 15D	12/7/21	SPECIFIC CONDUCTANCE	Y	65.00	uS/cm	GROUNDWATER
CRW 15D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	18.00	mg/L	GROUNDWATER
CRW 15D	12/7/21	TURBIDITY	Y	7.50	NTU	GROUNDWATER
CRW 15D	12/7/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW 15D	12/7/21	WATER TEMPERATURE	Y	18.20	°C	GROUNDWATER
CRW 16D	12/7/21	AIR TEMPERATURE	Y	14.40	°C	GROUNDWATER
CRW 16D	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW 16D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	149.00	mV	GROUNDWATER
CRW 16D	12/7/21	OXYGEN	Y	5.28	mg/L	GROUNDWATER
CRW 16D	12/7/21	PH	Y	6.30	pH	GROUNDWATER
CRW 16D	12/7/21	SPECIFIC CONDUCTANCE	Y	56.00	uS/cm	GROUNDWATER
CRW 16D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	13.00	mg/L	GROUNDWATER
CRW 16D	12/7/21	TURBIDITY	Y	1.30	NTU	GROUNDWATER
CRW 16D	12/7/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW 16D	12/7/21	WATER TEMPERATURE	Y	16.50	°C	GROUNDWATER
CRW010CU	12/7/21	AIR TEMPERATURE	Y	15.00	°C	GROUNDWATER
CRW010CU	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CRW010CU	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	226.00	mV	GROUNDWATER
CRW010CU	12/7/21	OXYGEN	Y	4.60	mg/L	GROUNDWATER
CRW010CU	12/7/21	PH	Y	6.20	pH	GROUNDWATER
CRW010CU	12/7/21	SPECIFIC CONDUCTANCE	Y	43.00	uS/cm	GROUNDWATER
CRW010CU	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	20.00	mg/L	GROUNDWATER
CRW010CU	12/7/21	TURBIDITY	Y	1.90	NTU	GROUNDWATER
CRW010CU	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CRW010CU	12/7/21	WATER TEMPERATURE	Y	17.40	°C	GROUNDWATER
CRW015B	12/6/21	AIR TEMPERATURE	Y	23.30	°C	GROUNDWATER
CRW015B	12/6/21	FLOW RATE	N		gal/min	GROUNDWATER
CRW015B	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	136.00	mV	GROUNDWATER
CRW015B	12/6/21	OXYGEN	Y	4.50	mg/L	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW015B	12/6/21	PH	Y	6.40	pH	GROUNDWATER
CRW015B	12/6/21	SPECIFIC CONDUCTANCE	Y	74.00	uS/cm	GROUNDWATER
CRW015B	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	25.00	mg/L	GROUNDWATER
CRW015B	12/6/21	TURBIDITY	Y	12.60	NTU	GROUNDWATER
CRW015B	12/6/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CRW015B	12/6/21	WATER TEMPERATURE	Y	18.50	°C	GROUNDWATER
CRW020D	12/6/21	AIR TEMPERATURE	Y	24.30	°C	GROUNDWATER
CRW020D	6/13/22	AIR TEMPERATURE	Y	32.70	°C	GROUNDWATER
CRW020D	12/6/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CRW020D	6/13/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW020D	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	288.00	mV	GROUNDWATER
CRW020D	12/6/21	OXYGEN	Y	8.10	mg/L	GROUNDWATER
CRW020D	12/6/21	PH	Y	4.70	pH	GROUNDWATER
CRW020D	6/13/22	PH	Y	4.80	pH	GROUNDWATER
CRW020D	12/6/21	SPECIFIC CONDUCTANCE	Y	55.00	uS/cm	GROUNDWATER
CRW020D	6/13/22	SPECIFIC CONDUCTANCE	Y	52.00	uS/cm	GROUNDWATER
CRW020D	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW020D	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW020D	12/6/21	TURBIDITY	Y	0.60	NTU	GROUNDWATER
CRW020D	6/13/22	TURBIDITY	Y	0.30	NTU	GROUNDWATER
CRW020D	12/6/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW020D	6/13/22	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CRW020D	12/6/21	WATER TEMPERATURE	Y	21.30	°C	GROUNDWATER
CRW020D	6/13/22	WATER TEMPERATURE	Y	21.40	°C	GROUNDWATER
CRW021DR	12/6/21	AIR TEMPERATURE	Y	23.60	°C	GROUNDWATER
CRW021DR	6/13/22	AIR TEMPERATURE	Y	34.20	°C	GROUNDWATER
CRW021DR	12/6/21	FLOW RATE	N		gal/min	GROUNDWATER
CRW021DR	6/13/22	FLOW RATE	N		gal/min	GROUNDWATER
CRW021DR	12/6/21	OXIDATION/REDUCTION POTENTIAL	Y	267.00	mV	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW021DR	12/6/21	OXYGEN	Y	8.11	mg/L	GROUNDWATER
CRW021DR	12/6/21	PH	Y	5.70	pH	GROUNDWATER
CRW021DR	6/13/22	PH	Y	5.50	pH	GROUNDWATER
CRW021DR	12/6/21	SPECIFIC CONDUCTANCE	Y	59.00	uS/cm	GROUNDWATER
CRW021DR	6/13/22	SPECIFIC CONDUCTANCE	Y	61.00	uS/cm	GROUNDWATER
CRW021DR	12/6/21	TOTAL ALKALINITY (AS CaCO3)	Y	3.00	mg/L	GROUNDWATER
CRW021DR	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	8.00	mg/L	GROUNDWATER
CRW021DR	12/6/21	TURBIDITY	Y	42.30	NTU	GROUNDWATER
CRW021DR	6/13/22	TURBIDITY	Y	25.90	NTU	GROUNDWATER
CRW021DR	12/6/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CRW021DR	6/13/22	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CRW021DR	12/6/21	WATER TEMPERATURE	Y	20.30	°C	GROUNDWATER
CRW021DR	6/13/22	WATER TEMPERATURE	Y	23.80	°C	GROUNDWATER
CRW022D	12/7/21	AIR TEMPERATURE	Y	14.40	°C	GROUNDWATER
CRW022D	12/7/21	FLOW RATE	Y	0.50	gal/min	GROUNDWATER
CRW022D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	163.00	mV	GROUNDWATER
CRW022D	12/7/21	OXYGEN	Y	5.42	mg/L	GROUNDWATER
CRW022D	12/7/21	PH	Y	5.90	pH	GROUNDWATER
CRW022D	12/7/21	SPECIFIC CONDUCTANCE	Y	102.00	uS/cm	GROUNDWATER
CRW022D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	11.00	mg/L	GROUNDWATER
CRW022D	12/7/21	TURBIDITY	Y	5.10	NTU	GROUNDWATER
CRW022D	12/7/21	VOLUME PURGED	Y	5.00	gal	GROUNDWATER
CRW022D	12/7/21	WATER TEMPERATURE	Y	21.70	°C	GROUNDWATER
CRW023C	11/29/21	AIR TEMPERATURE	Y	11.80	°C	GROUNDWATER
CRW023C	6/13/22	AIR TEMPERATURE	Y	29.10	°C	GROUNDWATER
CRW023C	11/29/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW023C	6/13/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW023C	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	274.00	mV	GROUNDWATER
CRW023C	6/13/22	OXIDATION/REDUCTION POTENTIAL	Y	211.00	mV	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW023C	11/29/21	OXYGEN	Y	4.70	mg/L	GROUNDWATER
CRW023C	6/13/22	OXYGEN	Y	7.31	mg/L	GROUNDWATER
CRW023C	11/29/21	PH	Y	5.50	pH	GROUNDWATER
CRW023C	6/13/22	PH	Y	4.70	pH	GROUNDWATER
CRW023C	11/29/21	SPECIFIC CONDUCTANCE	Y	27.00	uS/cm	GROUNDWATER
CRW023C	6/13/22	SPECIFIC CONDUCTANCE	Y	27.00	uS/cm	GROUNDWATER
CRW023C	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	15.00	mg/L	GROUNDWATER
CRW023C	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW023C	11/29/21	TURBIDITY	Y	2.70	NTU	GROUNDWATER
CRW023C	6/13/22	TURBIDITY	Y	11.10	NTU	GROUNDWATER
CRW023C	11/29/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CRW023C	6/13/22	VOLUME PURGED	Y	3.00	gal	GROUNDWATER
CRW023C	11/29/21	WATER TEMPERATURE	Y	18.20	°C	GROUNDWATER
CRW023C	6/13/22	WATER TEMPERATURE	Y	19.40	°C	GROUNDWATER
CRW024C	11/29/21	AIR TEMPERATURE	Y	13.70	°C	GROUNDWATER
CRW024C	6/13/22	AIR TEMPERATURE	Y	28.30	°C	GROUNDWATER
CRW024C	11/29/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW024C	6/13/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW024C	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	277.00	mV	GROUNDWATER
CRW024C	6/13/22	OXIDATION/REDUCTION POTENTIAL	Y	163.00	mV	GROUNDWATER
CRW024C	11/29/21	OXYGEN	Y	4.80	mg/L	GROUNDWATER
CRW024C	6/13/22	OXYGEN	Y	8.42	mg/L	GROUNDWATER
CRW024C	11/29/21	PH	Y	5.40	pH	GROUNDWATER
CRW024C	6/13/22	PH	Y	4.60	pH	GROUNDWATER
CRW024C	11/29/21	SPECIFIC CONDUCTANCE	Y	29.00	uS/cm	GROUNDWATER
CRW024C	6/13/22	SPECIFIC CONDUCTANCE	Y	30.00	uS/cm	GROUNDWATER
CRW024C	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	6.00	mg/L	GROUNDWATER
CRW024C	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW024C	11/29/21	TURBIDITY	Y	1.30	NTU	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW024C	6/13/22	TURBIDITY	Y	3.70	NTU	GROUNDWATER
CRW024C	11/29/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CRW024C	6/13/22	VOLUME PURGED	Y	3.00	gal	GROUNDWATER
CRW024C	11/29/21	WATER TEMPERATURE	Y	18.50	°C	GROUNDWATER
CRW024C	6/13/22	WATER TEMPERATURE	Y	19.30	°C	GROUNDWATER
CRW025C	11/29/21	AIR TEMPERATURE	Y	9.90	°C	GROUNDWATER
CRW025C	6/14/22	AIR TEMPERATURE	Y	28.90	°C	GROUNDWATER
CRW025C	11/29/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW025C	6/14/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW025C	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	288.00	mV	GROUNDWATER
CRW025C	6/14/22	OXIDATION/REDUCTION POTENTIAL	Y	151.00	mV	GROUNDWATER
CRW025C	11/29/21	OXYGEN	Y	3.03	mg/L	GROUNDWATER
CRW025C	6/14/22	OXYGEN	Y	5.57	mg/L	GROUNDWATER
CRW025C	11/29/21	PH	Y	4.90	pH	GROUNDWATER
CRW025C	6/14/22	PH	Y	4.50	pH	GROUNDWATER
CRW025C	11/29/21	SPECIFIC CONDUCTANCE	Y	24.00	uS/cm	GROUNDWATER
CRW025C	6/14/22	SPECIFIC CONDUCTANCE	Y	21.00	uS/cm	GROUNDWATER
CRW025C	11/29/21	TOTAL ALKALINITY (AS CaCO ₃)	Y	0.00	mg/L	GROUNDWATER
CRW025C	6/14/22	TOTAL ALKALINITY (AS CaCO ₃)	Y	0.00	mg/L	GROUNDWATER
CRW025C	11/29/21	TURBIDITY	Y	10.90	NTU	GROUNDWATER
CRW025C	6/14/22	TURBIDITY	Y	11.90	NTU	GROUNDWATER
CRW025C	11/29/21	VOLUME PURGED	Y	3.00	gal	GROUNDWATER
CRW025C	6/14/22	VOLUME PURGED	Y	4.00	gal	GROUNDWATER
CRW025C	11/29/21	WATER TEMPERATURE	Y	17.60	°C	GROUNDWATER
CRW025C	6/14/22	WATER TEMPERATURE	Y	18.70	°C	GROUNDWATER
CRW026C	11/29/21	AIR TEMPERATURE	Y	12.30	°C	GROUNDWATER
CRW026C	6/14/22	AIR TEMPERATURE	Y	27.60	°C	GROUNDWATER
CRW026C	11/29/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW026C	6/14/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW026C	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	-27.00	mV	GROUNDWATER
CRW026C	6/14/22	OXIDATION/REDUCTION POTENTIAL	Y	-93.00	mV	GROUNDWATER
CRW026C	11/29/21	OXYGEN	Y	2.92	mg/L	GROUNDWATER
CRW026C	6/14/22	OXYGEN	Y	0.45	mg/L	GROUNDWATER
CRW026C	11/29/21	PH	Y	6.00	pH	GROUNDWATER
CRW026C	6/14/22	PH	Y	6.20	pH	GROUNDWATER
CRW026C	11/29/21	SPECIFIC CONDUCTANCE	Y	104.00	uS/cm	GROUNDWATER
CRW026C	6/14/22	SPECIFIC CONDUCTANCE	Y	111.00	uS/cm	GROUNDWATER
CRW026C	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	43.00	mg/L	GROUNDWATER
CRW026C	6/14/22	TOTAL ALKALINITY (AS CaCO3)	Y	48.00	mg/L	GROUNDWATER
CRW026C	11/29/21	TURBIDITY	Y	4.00	NTU	GROUNDWATER
CRW026C	6/14/22	TURBIDITY	Y	5.80	NTU	GROUNDWATER
CRW026C	11/29/21	VOLUME PURGED	Y	4.00	gal	GROUNDWATER
CRW026C	6/14/22	VOLUME PURGED	Y	4.00	gal	GROUNDWATER
CRW026C	11/29/21	WATER TEMPERATURE	Y	18.00	°C	GROUNDWATER
CRW026C	6/14/22	WATER TEMPERATURE	Y	18.90	°C	GROUNDWATER
CRW027C	11/29/21	AIR TEMPERATURE	Y	12.40	°C	GROUNDWATER
CRW027C	6/14/22	AIR TEMPERATURE	Y	32.10	°C	GROUNDWATER
CRW027C	11/29/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW027C	6/14/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW027C	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	256.00	mV	GROUNDWATER
CRW027C	6/14/22	OXIDATION/REDUCTION POTENTIAL	Y	268.80	mV	GROUNDWATER
CRW027C	11/29/21	OXYGEN	Y	3.14	mg/L	GROUNDWATER
CRW027C	6/14/22	OXYGEN	Y	8.02	mg/L	GROUNDWATER
CRW027C	11/29/21	PH	Y	4.80	pH	GROUNDWATER
CRW027C	6/14/22	PH	Y	4.40	pH	GROUNDWATER
CRW027C	11/29/21	SPECIFIC CONDUCTANCE	Y	27.00	uS/cm	GROUNDWATER
CRW027C	6/14/22	SPECIFIC CONDUCTANCE	Y	29.00	uS/cm	GROUNDWATER
CRW027C	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW027C	6/14/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW027C	11/29/21	TURBIDITY	Y	0.90	NTU	GROUNDWATER
CRW027C	6/14/22	TURBIDITY	Y	3.00	NTU	GROUNDWATER
CRW027C	11/29/21	VOLUME PURGED	Y	5.00	gal	GROUNDWATER
CRW027C	6/14/22	VOLUME PURGED	Y	6.00	gal	GROUNDWATER
CRW027C	11/29/21	WATER TEMPERATURE	Y	18.10	°C	GROUNDWATER
CRW027C	6/14/22	WATER TEMPERATURE	Y	18.60	°C	GROUNDWATER
CRW028C	11/29/21	AIR TEMPERATURE	Y	13.30	°C	GROUNDWATER
CRW028C	6/14/22	AIR TEMPERATURE	Y	34.90	°C	GROUNDWATER
CRW028C	11/29/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW028C	6/14/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW028C	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	305.00	mV	GROUNDWATER
CRW028C	6/14/22	OXIDATION/REDUCTION POTENTIAL	Y	284.00	mV	GROUNDWATER
CRW028C	11/29/21	OXYGEN	Y	4.25	mg/L	GROUNDWATER
CRW028C	6/14/22	OXYGEN	Y	0.74	mg/L	GROUNDWATER
CRW028C	11/29/21	PH	Y	4.80	pH	GROUNDWATER
CRW028C	6/14/22	PH	Y	4.50	pH	GROUNDWATER
CRW028C	11/29/21	SPECIFIC CONDUCTANCE	Y	27.00	uS/cm	GROUNDWATER
CRW028C	6/14/22	SPECIFIC CONDUCTANCE	Y	25.00	uS/cm	GROUNDWATER
CRW028C	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW028C	6/14/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW028C	11/29/21	TURBIDITY	Y	2.50	NTU	GROUNDWATER
CRW028C	6/14/22	TURBIDITY	Y	2.60	NTU	GROUNDWATER
CRW028C	11/29/21	VOLUME PURGED	Y	6.00	gal	GROUNDWATER
CRW028C	6/14/22	VOLUME PURGED	Y	6.00	gal	GROUNDWATER
CRW028C	11/29/21	WATER TEMPERATURE	Y	18.30	°C	GROUNDWATER
CRW028C	6/14/22	WATER TEMPERATURE	Y	19.30	°C	GROUNDWATER
CRW029C	6/13/22	AIR TEMPERATURE	Y	32.80	°C	GROUNDWATER
CRW029C	6/13/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CRW029C	6/13/22	OXIDATION/REDUCTION POTENTIAL	Y	198.00	mV	GROUNDWATER
CRW029C	6/13/22	OXYGEN	Y	7.81	mg/L	GROUNDWATER
CRW029C	6/13/22	PH	Y	5.20	pH	GROUNDWATER
CRW029C	6/13/22	SPECIFIC CONDUCTANCE	Y	31.00	uS/cm	GROUNDWATER
CRW029C	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW029C	6/13/22	TURBIDITY	Y	7.60	NTU	GROUNDWATER
CRW029C	6/13/22	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CRW029C	6/13/22	WATER TEMPERATURE	Y	19.70	°C	GROUNDWATER
CRW030C	6/13/22	AIR TEMPERATURE	Y	33.20	°C	GROUNDWATER
CRW030C	6/13/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CRW030C	6/13/22	OXIDATION/REDUCTION POTENTIAL	Y	234.00	mV	GROUNDWATER
CRW030C	6/13/22	OXYGEN	Y	8.18	mg/L	GROUNDWATER
CRW030C	6/13/22	PH	Y	4.50	pH	GROUNDWATER
CRW030C	6/13/22	SPECIFIC CONDUCTANCE	Y	24.00	uS/cm	GROUNDWATER
CRW030C	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CRW030C	6/13/22	TURBIDITY	Y	2.10	NTU	GROUNDWATER
CRW030C	6/13/22	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CRW030C	6/13/22	WATER TEMPERATURE	Y	19.10	°C	GROUNDWATER
CSB 3C	12/7/21	AIR TEMPERATURE	Y	13.90	°C	GROUNDWATER
CSB 3C	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CSB 3C	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	173.00	mV	GROUNDWATER
CSB 3C	12/7/21	OXYGEN	Y	4.73	mg/L	GROUNDWATER
CSB 3C	12/7/21	PH	Y	5.40	pH	GROUNDWATER
CSB 3C	12/7/21	SPECIFIC CONDUCTANCE	Y	26.00	uS/cm	GROUNDWATER
CSB 3C	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	7.00	mg/L	GROUNDWATER
CSB 3C	12/7/21	TURBIDITY	Y	1.20	NTU	GROUNDWATER
CSB 3C	12/7/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CSB 3C	12/7/21	WATER TEMPERATURE	Y	18.60	°C	GROUNDWATER
CSB 9D	12/7/21	AIR TEMPERATURE	Y	13.90	°C	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CSB 9D	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CSB 9D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	171.00	mV	GROUNDWATER
CSB 9D	12/7/21	OXYGEN	Y	4.60	mg/L	GROUNDWATER
CSB 9D	12/7/21	PH	Y	5.40	pH	GROUNDWATER
CSB 9D	12/7/21	SPECIFIC CONDUCTANCE	Y	35.00	uS/cm	GROUNDWATER
CSB 9D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	7.00	mg/L	GROUNDWATER
CSB 9D	12/7/21	TURBIDITY	Y	2.60	NTU	GROUNDWATER
CSB 9D	12/7/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CSB 9D	12/7/21	WATER TEMPERATURE	Y	18.80	°C	GROUNDWATER
CSB 11D	12/7/21	AIR TEMPERATURE	Y	14.80	°C	GROUNDWATER
CSB 11D	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CSB 11D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	161.00	mV	GROUNDWATER
CSB 11D	12/7/21	OXYGEN	Y	4.77	mg/L	GROUNDWATER
CSB 11D	12/7/21	PH	Y	5.60	pH	GROUNDWATER
CSB 11D	12/7/21	SPECIFIC CONDUCTANCE	Y	38.00	uS/cm	GROUNDWATER
CSB 11D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	9.00	mg/L	GROUNDWATER
CSB 11D	12/7/21	TURBIDITY	Y	0.70	NTU	GROUNDWATER
CSB 11D	12/7/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CSB 11D	12/7/21	WATER TEMPERATURE	Y	17.30	°C	GROUNDWATER
CSB 12D	12/7/21	AIR TEMPERATURE	Y	14.50	°C	GROUNDWATER
CSB 12D	12/7/21	FLOW RATE	Y	0.50	gal/min	GROUNDWATER
CSB 12D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	-68.00	mV	GROUNDWATER
CSB 12D	12/7/21	OXYGEN	Y	2.67	mg/L	GROUNDWATER
CSB 12D	12/7/21	PH	Y	6.20	pH	GROUNDWATER
CSB 12D	12/7/21	SPECIFIC CONDUCTANCE	Y	112.00	uS/cm	GROUNDWATER
CSB 12D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	46.00	mg/L	GROUNDWATER
CSB 12D	12/7/21	TURBIDITY	Y	0.20	NTU	GROUNDWATER
CSB 12D	12/7/21	VOLUME PURGED	Y	7.00	gal	GROUNDWATER
CSB 12D	12/7/21	WATER TEMPERATURE	Y	18.50	°C	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CSB 13D	12/7/21	AIR TEMPERATURE	Y	15.50	°C	GROUNDWATER
CSB 13D	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB 13D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	138.00	mV	GROUNDWATER
CSB 13D	12/7/21	OXYGEN	Y	3.22	mg/L	GROUNDWATER
CSB 13D	12/7/21	PH	Y	6.00	pH	GROUNDWATER
CSB 13D	12/7/21	SPECIFIC CONDUCTANCE	Y	42.00	uS/cm	GROUNDWATER
CSB 13D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	7.00	mg/L	GROUNDWATER
CSB 13D	12/7/21	TURBIDITY	Y	9.90	NTU	GROUNDWATER
CSB 13D	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB 13D	12/7/21	WATER TEMPERATURE	Y	18.40	°C	GROUNDWATER
CSB 15D	11/29/21	AIR TEMPERATURE	Y	4.30	°C	GROUNDWATER
CSB 15D	6/13/22	AIR TEMPERATURE	Y	28.80	°C	GROUNDWATER
CSB 15D	11/29/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CSB 15D	6/13/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CSB 15D	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	275.00	mV	GROUNDWATER
CSB 15D	6/13/22	OXIDATION/REDUCTION POTENTIAL	Y	243.00	mV	GROUNDWATER
CSB 15D	11/29/21	OXYGEN	Y	4.30	mg/L	GROUNDWATER
CSB 15D	6/13/22	OXYGEN	Y	8.34	mg/L	GROUNDWATER
CSB 15D	11/29/21	PH	Y	5.70	pH	GROUNDWATER
CSB 15D	6/13/22	PH	Y	4.80	pH	GROUNDWATER
CSB 15D	11/29/21	SPECIFIC CONDUCTANCE	Y	30.00	uS/cm	GROUNDWATER
CSB 15D	6/13/22	SPECIFIC CONDUCTANCE	Y	26.00	uS/cm	GROUNDWATER
CSB 15D	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	6.00	mg/L	GROUNDWATER
CSB 15D	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CSB 15D	11/29/21	TURBIDITY	Y	8.90	NTU	GROUNDWATER
CSB 15D	6/13/22	TURBIDITY	Y	3.60	NTU	GROUNDWATER
CSB 15D	11/29/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CSB 15D	6/13/22	VOLUME PURGED	Y	5.00	gal	GROUNDWATER
CSB 15D	11/29/21	WATER TEMPERATURE	Y	18.30	°C	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CSB 15D	6/13/22	WATER TEMPERATURE	Y	18.70	°C	GROUNDWATER
CSB011B	12/7/21	AIR TEMPERATURE	Y	15.00	°C	GROUNDWATER
CSB011B	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB011B	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	141.00	mV	GROUNDWATER
CSB011B	12/7/21	OXYGEN	Y	4.72	mg/L	GROUNDWATER
CSB011B	12/7/21	PH	Y	6.70	pH	GROUNDWATER
CSB011B	12/7/21	SPECIFIC CONDUCTANCE	Y	142.00	uS/cm	GROUNDWATER
CSB011B	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	64.00	mg/L	GROUNDWATER
CSB011B	12/7/21	TURBIDITY	Y	41.20	NTU	GROUNDWATER
CSB011B	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB011B	12/7/21	WATER TEMPERATURE	Y	17.80	°C	GROUNDWATER
CSB011C	12/7/21	AIR TEMPERATURE	Y	15.00	°C	GROUNDWATER
CSB011C	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB011C	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	125.00	mV	GROUNDWATER
CSB011C	12/7/21	OXYGEN	Y	4.54	mg/L	GROUNDWATER
CSB011C	12/7/21	PH	Y	7.30	pH	GROUNDWATER
CSB011C	12/7/21	SPECIFIC CONDUCTANCE	Y	73.00	uS/cm	GROUNDWATER
CSB011C	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	39.00	mg/L	GROUNDWATER
CSB011C	12/7/21	TURBIDITY	Y	15.20	NTU	GROUNDWATER
CSB011C	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB011C	12/7/21	WATER TEMPERATURE	Y	18.10	°C	GROUNDWATER
CSB013B	12/7/21	AIR TEMPERATURE	Y	14.50	°C	GROUNDWATER
CSB013B	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB013B	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	19.00	mV	GROUNDWATER
CSB013B	12/7/21	OXYGEN	Y	3.24	mg/L	GROUNDWATER
CSB013B	12/7/21	PH	Y	9.90	pH	GROUNDWATER
CSB013B	12/7/21	SPECIFIC CONDUCTANCE	Y	113.00	uS/cm	GROUNDWATER
CSB013B	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	37.00	mg/L	GROUNDWATER
CSB013B	12/7/21	TURBIDITY	Y	1.80	NTU	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CSB013B	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB013B	12/7/21	WATER TEMPERATURE	Y	18.50	°C	GROUNDWATER
CSB015B	12/7/21	AIR TEMPERATURE	Y	15.00	°C	GROUNDWATER
CSB015B	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB015B	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	134.00	mV	GROUNDWATER
CSB015B	12/7/21	OXYGEN	Y	3.70	mg/L	GROUNDWATER
CSB015B	12/7/21	PH	Y	6.30	pH	GROUNDWATER
CSB015B	12/7/21	SPECIFIC CONDUCTANCE	Y	71.00	uS/cm	GROUNDWATER
CSB015B	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	27.00	mg/L	GROUNDWATER
CSB015B	12/7/21	TURBIDITY	Y	23.40	NTU	GROUNDWATER
CSB015B	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB015B	12/7/21	WATER TEMPERATURE	Y	17.90	°C	GROUNDWATER
CSB017B	12/7/21	AIR TEMPERATURE	Y	17.00	°C	GROUNDWATER
CSB017B	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB017B	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	106.00	mV	GROUNDWATER
CSB017B	12/7/21	OXYGEN	Y	2.84	mg/L	GROUNDWATER
CSB017B	12/7/21	PH	Y	7.30	pH	GROUNDWATER
CSB017B	12/7/21	SPECIFIC CONDUCTANCE	Y	102.00	uS/cm	GROUNDWATER
CSB017B	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	29.00	mg/L	GROUNDWATER
CSB017B	12/7/21	TURBIDITY	Y	29.50	NTU	GROUNDWATER
CSB017B	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB017B	12/7/21	WATER TEMPERATURE	Y	19.50	°C	GROUNDWATER
CSB017D	12/7/21	AIR TEMPERATURE	Y	17.20	°C	GROUNDWATER
CSB017D	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB017D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	156.00	mV	GROUNDWATER
CSB017D	12/7/21	OXYGEN	Y	3.76	mg/L	GROUNDWATER
CSB017D	12/7/21	PH	Y	5.70	pH	GROUNDWATER
CSB017D	12/7/21	SPECIFIC CONDUCTANCE	Y	44.00	uS/cm	GROUNDWATER
CSB017D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	7.00	mg/L	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CSB017D	12/7/21	TURBIDITY	Y	15.00	NTU	GROUNDWATER
CSB017D	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB017D	12/7/21	WATER TEMPERATURE	Y	18.70	°C	GROUNDWATER
CSB019B	12/7/21	AIR TEMPERATURE	Y	19.20	°C	GROUNDWATER
CSB019B	12/7/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CSB019B	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	122.00	mV	GROUNDWATER
CSB019B	12/7/21	OXYGEN	Y	5.98	mg/L	GROUNDWATER
CSB019B	12/7/21	PH	Y	6.80	pH	GROUNDWATER
CSB019B	12/7/21	SPECIFIC CONDUCTANCE	Y	61.00	uS/cm	GROUNDWATER
CSB019B	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	64.00	mg/L	GROUNDWATER
CSB019B	12/7/21	TURBIDITY	Y	37.20	NTU	GROUNDWATER
CSB019B	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB019B	12/7/21	WATER TEMPERATURE	Y	17.50	°C	GROUNDWATER
CSB019C	12/7/21	AIR TEMPERATURE	Y	20.90	°C	GROUNDWATER
CSB019C	12/16/21	AIR TEMPERATURE	Y	17.50	°C	GROUNDWATER
CSB019C	12/7/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CSB019C	12/16/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB019C	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	131.00	mV	GROUNDWATER
CSB019C	12/16/21	OXIDATION/REDUCTION POTENTIAL	Y	240.00	mV	GROUNDWATER
CSB019C	12/7/21	OXYGEN	Y	6.34	mg/L	GROUNDWATER
CSB019C	12/16/21	OXYGEN	Y	7.72	mg/L	GROUNDWATER
CSB019C	12/7/21	PH	Y	6.80	pH	GROUNDWATER
CSB019C	12/16/21	PH	Y	5.30	pH	GROUNDWATER
CSB019C	12/7/21	SPECIFIC CONDUCTANCE	Y	16.00	uS/cm	GROUNDWATER
CSB019C	12/16/21	SPECIFIC CONDUCTANCE	Y	17.00	uS/cm	GROUNDWATER
CSB019C	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	4.00	mg/L	GROUNDWATER
CSB019C	12/16/21	TOTAL ALKALINITY (AS CaCO3)	Y	1.00	mg/L	GROUNDWATER
CSB019C	12/7/21	TURBIDITY	Y	74.10	NTU	GROUNDWATER
CSB019C	12/16/21	TURBIDITY	Y	66.80	NTU	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CSB019C	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB019C	12/16/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB019C	12/7/21	WATER TEMPERATURE	Y	17.50	°C	GROUNDWATER
CSB019C	12/16/21	WATER TEMPERATURE	Y	18.40	°C	GROUNDWATER
CSB020B	12/7/21	AIR TEMPERATURE	Y	16.10	°C	GROUNDWATER
CSB020B	12/7/21	FLOW RATE	Y	0.00	gal/min	GROUNDWATER
CSB020B	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	121.00	mV	GROUNDWATER
CSB020B	12/7/21	OXYGEN	Y	6.50	mg/L	GROUNDWATER
CSB020B	12/7/21	PH	Y	8.10	pH	GROUNDWATER
CSB020B	12/7/21	SPECIFIC CONDUCTANCE	Y	137.00	uS/cm	GROUNDWATER
CSB020B	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	29.00	mg/L	GROUNDWATER
CSB020B	12/7/21	TURBIDITY	Y	185.00	NTU	GROUNDWATER
CSB020B	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB020B	12/7/21	WATER TEMPERATURE	Y	15.70	°C	GROUNDWATER
CSB020C	11/29/21	AIR TEMPERATURE	Y	13.20	°C	GROUNDWATER
CSB020C	6/13/22	AIR TEMPERATURE	Y	27.50	°C	GROUNDWATER
CSB020C	11/29/21	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CSB020C	6/13/22	FLOW RATE	Y	0.20	gal/min	GROUNDWATER
CSB020C	11/29/21	OXIDATION/REDUCTION POTENTIAL	Y	273.00	mV	GROUNDWATER
CSB020C	6/13/22	OXIDATION/REDUCTION POTENTIAL	Y	208.00	mV	GROUNDWATER
CSB020C	11/29/21	OXYGEN	Y	4.50	mg/L	GROUNDWATER
CSB020C	6/13/22	OXYGEN	Y	8.49	mg/L	GROUNDWATER
CSB020C	11/29/21	PH	Y	5.50	pH	GROUNDWATER
CSB020C	6/13/22	PH	Y	4.60	pH	GROUNDWATER
CSB020C	11/29/21	SPECIFIC CONDUCTANCE	Y	26.00	uS/cm	GROUNDWATER
CSB020C	6/13/22	SPECIFIC CONDUCTANCE	Y	27.00	uS/cm	GROUNDWATER
CSB020C	11/29/21	TOTAL ALKALINITY (AS CaCO3)	Y	8.00	mg/L	GROUNDWATER
CSB020C	6/13/22	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CSB020C	11/29/21	TURBIDITY	Y	8.70	NTU	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CSB020C	6/13/22	TURBIDITY	Y	3.70	NTU	GROUNDWATER
CSB020C	11/29/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CSB020C	6/13/22	VOLUME PURGED	Y	3.00	gal	GROUNDWATER
CSB020C	11/29/21	WATER TEMPERATURE	Y	18.40	°C	GROUNDWATER
CSB020C	6/13/22	WATER TEMPERATURE	Y	18.90	°C	GROUNDWATER
CSB020D	12/7/21	AIR TEMPERATURE	Y	16.00	°C	GROUNDWATER
CSB020D	12/7/21	FLOW RATE	Y	0.00	gal/min	GROUNDWATER
CSB020D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	119.00	mV	GROUNDWATER
CSB020D	12/7/21	OXYGEN	Y	6.50	mg/L	GROUNDWATER
CSB020D	12/7/21	PH	Y	5.50	pH	GROUNDWATER
CSB020D	12/7/21	SPECIFIC CONDUCTANCE	Y	17.00	uS/cm	GROUNDWATER
CSB020D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CSB020D	12/7/21	TURBIDITY	Y	301.00	NTU	GROUNDWATER
CSB020D	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB020D	12/7/21	WATER TEMPERATURE	Y	16.20	°C	GROUNDWATER
CSB021D	12/7/21	AIR TEMPERATURE	Y	15.70	°C	GROUNDWATER
CSB021D	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CSB021D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	240.00	mV	GROUNDWATER
CSB021D	12/7/21	OXYGEN	Y	8.64	mg/L	GROUNDWATER
CSB021D	12/7/21	PH	Y	5.80	pH	GROUNDWATER
CSB021D	12/7/21	SPECIFIC CONDUCTANCE	Y	24.00	uS/cm	GROUNDWATER
CSB021D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	3.00	mg/L	GROUNDWATER
CSB021D	12/7/21	TURBIDITY	Y	92.40	NTU	GROUNDWATER
CSB021D	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CSB021D	12/7/21	WATER TEMPERATURE	Y	17.80	°C	GROUNDWATER
CSL001	12/7/21	AIR TEMPERATURE	Y	15.70	°C	GROUNDWATER
CSL001	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CSL001	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	148.00	mV	GROUNDWATER
CSL001	12/7/21	OXYGEN	Y	8.70	mg/L	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CSL001	12/7/21	PH	Y	7.90	pH	GROUNDWATER
CSL001	12/7/21	SPECIFIC CONDUCTANCE	Y	157.00	uS/cm	GROUNDWATER
CSL001	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	67.00	mg/L	GROUNDWATER
CSL001	12/7/21	TURBIDITY	Y	14.80	NTU	GROUNDWATER
CSL001	12/7/21	VOLUME PURGED	Y	1.00	gal	GROUNDWATER
CSL001	12/7/21	WATER TEMPERATURE	Y	17.00	°C	GROUNDWATER
CSL002	12/7/21	AIR TEMPERATURE	Y	14.80	°C	GROUNDWATER
CSL002	12/7/21	FLOW RATE	Y	0.10	gal/min	GROUNDWATER
CSL002	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	212.00	mV	GROUNDWATER
CSL002	12/7/21	OXYGEN	Y	2.81	mg/L	GROUNDWATER
CSL002	12/7/21	PH	Y	4.80	pH	GROUNDWATER
CSL002	12/7/21	SPECIFIC CONDUCTANCE	Y	22.00	uS/cm	GROUNDWATER
CSL002	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	0.00	mg/L	GROUNDWATER
CSL002	12/7/21	TURBIDITY	Y	28.80	NTU	GROUNDWATER
CSL002	12/7/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CSL002	12/7/21	WATER TEMPERATURE	Y	16.30	°C	GROUNDWATER
CTA003D	12/7/21	AIR TEMPERATURE	Y	16.70	°C	GROUNDWATER
CTA003D	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CTA003D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	270.00	mV	GROUNDWATER
CTA003D	12/7/21	OXYGEN	Y	7.48	mg/L	GROUNDWATER
CTA003D	12/7/21	PH	Y	5.40	pH	GROUNDWATER
CTA003D	12/7/21	SPECIFIC CONDUCTANCE	Y	66.00	uS/cm	GROUNDWATER
CTA003D	12/7/21	TOTAL ALKALINITY (AS CaCO3)	Y	2.00	mg/L	GROUNDWATER
CTA003D	12/7/21	TURBIDITY	Y	43.00	NTU	GROUNDWATER
CTA003D	12/7/21	VOLUME PURGED	Y	0.00	gal	GROUNDWATER
CTA003D	12/7/21	WATER TEMPERATURE	Y	19.50	°C	GROUNDWATER
CTA004D	12/7/21	AIR TEMPERATURE	Y	15.80	°C	GROUNDWATER
CTA004D	12/7/21	FLOW RATE	N		gal/min	GROUNDWATER
CTA004D	12/7/21	OXIDATION/REDUCTION POTENTIAL	Y	264.00	mV	GROUNDWATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
CTA004D	12/7/21	OXYGEN	Y	8.02	mg/L	GROUNDWATER
CTA004D	12/7/21	PH	Y	4.90	pH	GROUNDWATER
CTA004D	12/7/21	SPECIFIC CONDUCTANCE	Y	38.00	uS/cm	GROUNDWATER
CTA004D	12/7/21	TOTAL ALKALINITY (AS CaCO ₃)	Y	0.00	mg/L	GROUNDWATER
CTA004D	12/7/21	TURBIDITY	Y	2.60	NTU	GROUNDWATER
CTA004D	12/7/21	VOLUME PURGED	Y	2.00	gal	GROUNDWATER
CTA004D	12/7/21	WATER TEMPERATURE	Y	20.80	°C	GROUNDWATER
FM-TL	12/17/21	AIR TEMPERATURE	Y	20.00	°C	SURFACE WATER
FM-TL	6/22/22	AIR TEMPERATURE	Y	31.00	°C	SURFACE WATER
FM-TL	12/17/21	FLOW RATE	Y	4.71	gal/min	SURFACE WATER
FM-TL	6/22/22	FLOW RATE	Y	0.90	gal/min	SURFACE WATER
FM-TL	12/17/21	OXIDATION/REDUCTION POTENTIAL	Y	141.00	mV	SURFACE WATER
FM-TL	6/22/22	OXIDATION/REDUCTION POTENTIAL	Y	307.00	mV	SURFACE WATER
FM-TL	12/17/21	OXYGEN	Y	5.23	mg/L	SURFACE WATER
FM-TL	6/22/22	OXYGEN	Y	2.86	mg/L	SURFACE WATER
FM-TL	12/17/21	PH	Y	6.50	pH	SURFACE WATER
FM-TL	6/22/22	PH	Y	6.70	pH	SURFACE WATER
FM-TL	12/17/21	SPECIFIC CONDUCTANCE	Y	63.00	uS/cm	SURFACE WATER
FM-TL	6/22/22	SPECIFIC CONDUCTANCE	Y	150.00	uS/cm	SURFACE WATER
FM-TL	12/17/21	TOTAL ALKALINITY (AS CaCO ₃)	Y	23.00	mg/L	SURFACE WATER
FM-TL	6/22/22	TOTAL ALKALINITY (AS CaCO ₃)	Y	26.00	mg/L	SURFACE WATER
FM-TL	12/17/21	TURBIDITY	Y	7.80	NTU	SURFACE WATER
FM-TL	6/22/22	TURBIDITY	Y	13.10	NTU	SURFACE WATER
FM-TL	12/17/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
FM-TL	6/22/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
FM-TL	12/17/21	WATER TEMPERATURE	Y	13.20	°C	SURFACE WATER
FM-TL	6/22/22	WATER TEMPERATURE	Y	22.00	°C	SURFACE WATER
TL 01	12/17/21	AIR TEMPERATURE	Y	16.80	°C	SURFACE WATER
TL 01	6/22/22	AIR TEMPERATURE	Y	21.10	°C	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
TL 01	12/17/21	FLOW RATE	Y	0.05	gal/min	SURFACE WATER
TL 01	6/22/22	FLOW RATE	N		gal/min	SURFACE WATER
TL 01	12/17/21	OXIDATION/REDUCTION POTENTIAL	Y	151.00	mV	SURFACE WATER
TL 01	12/17/21	OXYGEN	Y	4.85	mg/L	SURFACE WATER
TL 01	12/17/21	PH	Y	5.70	pH	SURFACE WATER
TL 01	6/22/22	PH	N		pH	SURFACE WATER
TL 01	12/17/21	SPECIFIC CONDUCTANCE	Y	20.00	uS/cm	SURFACE WATER
TL 01	6/22/22	SPECIFIC CONDUCTANCE	N		uS/cm	SURFACE WATER
TL 01	12/17/21	TOTAL ALKALINITY (AS CaCO3)	Y	2.00	mg/L	SURFACE WATER
TL 01	6/22/22	TOTAL ALKALINITY (AS CaCO3)	N		mg/L	SURFACE WATER
TL 01	12/17/21	TURBIDITY	Y	21.70	NTU	SURFACE WATER
TL 01	6/22/22	TURBIDITY	N		NTU	SURFACE WATER
TL 01	12/17/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
TL 01	6/22/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
TL 01	12/17/21	WATER TEMPERATURE	Y	13.30	°C	SURFACE WATER
TL 01	6/22/22	WATER TEMPERATURE	N		°C	SURFACE WATER
TL 03	12/17/21	AIR TEMPERATURE	Y	17.90	°C	SURFACE WATER
TL 03	6/22/22	AIR TEMPERATURE	Y	30.50	°C	SURFACE WATER
TL 03	12/17/21	FLOW RATE	N		gal/min	SURFACE WATER
TL 03	6/22/22	FLOW RATE	Y	0.00	gal/min	SURFACE WATER
TL 03	12/17/21	OXIDATION/REDUCTION POTENTIAL	Y	129.00	mV	SURFACE WATER
TL 03	6/22/22	OXIDATION/REDUCTION POTENTIAL	Y	0.40	mV	SURFACE WATER
TL 03	12/17/21	OXYGEN	Y	6.23	mg/L	SURFACE WATER
TL 03	6/22/22	OXYGEN	Y	5.36	mg/L	SURFACE WATER
TL 03	12/17/21	PH	Y	6.30	pH	SURFACE WATER
TL 03	6/22/22	PH	Y	6.90	pH	SURFACE WATER
TL 03	12/17/21	SPECIFIC CONDUCTANCE	Y	81.00	uS/cm	SURFACE WATER
TL 03	6/22/22	SPECIFIC CONDUCTANCE	Y	132.00	uS/cm	SURFACE WATER
TL 03	12/17/21	TOTAL ALKALINITY (AS CaCO3)	Y	12.00	mg/L	SURFACE WATER

Appendix F-2. CAGW OU Field Measurements July 2021 through June 2022						
STATION	DATE	ANALYTE	TAKEN?	VALUE	UNITS	MATRIX
TL 03	6/22/22	TOTAL ALKALINITY (AS CaCO3)	Y	27.00	mg/L	SURFACE WATER
TL 03	12/17/21	TURBIDITY	Y	8.60	NTU	SURFACE WATER
TL 03	6/22/22	TURBIDITY	Y	15.30	NTU	SURFACE WATER
TL 03	12/17/21	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
TL 03	6/22/22	VOLUME PURGED	Y	0.00	gal	SURFACE WATER
TL 03	12/17/21	WATER TEMPERATURE	Y	13.30	°C	SURFACE WATER
TL 03	6/22/22	WATER TEMPERATURE	Y	21.40	°C	SURFACE WATER