

Tulare Lake Subbasin Annual Report

Reporting Period 2015-2019

Groundwater Sustainability Agencies

Mid-Kings River GSA

South Fork Kings GSA

Southwest Kings GSA

El Rico GSA

Tri-County Water Authority

May 5, 2020

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1. Executive Summary/Introduction

356.2(a) General information, including an executive summary and a location map depicting the basin covered by the report.

The purpose of this report is to comply with the annual reporting for the Tulare Lake Subbasin, following the submittal of the Groundwater Sustainability Plan (GSP) in January 2020. This report covers water years 2015, 2016, 2017, 2018 and 2019. The period being reported is prior to the implementation of SGMA therefore data quality and coverage reflect the pre-SGMA conditions. The format will use the numbering shown in the adopted Tulare Lake GSP. The data in this report is an extension of the 2020 Tulare Lake Subbasin Groundwater Sustainability Plan.

This report covers the area of the Tulare Lake Subbasin as seen in Figure 1-1. The Groundwater Sustainability Agencies (GSA) covered under this report are:

- Mid-Kings River GSA
- South Fork Kings GSA
- Southwest Kings GSA
- El Rico GSA
- Tri-County Water Authority

Water year type was developed based on the Kings River Water Association diversion classification, the following water year and water year type for the period 2015-2019 are listed below:

- 2015-Dry
- 2016-Dry
- 2017-Wet
- 2018-Normal
- 2019-Wet

The base period is from 1998 through 2010, which represents a period of “normal hydrology” where Kings River flows were close to the 50- year historical average. During the base period the Kings River yielded an average 96% water year. The period 2015 to 2019 included both extreme dry and wet years with a percent water year on the Kings River of 116%. This basin is significantly reliant on surface water supplies from the Kings River and that is the reason for comparing the percentage of average for surface supplies from this river system.

Data gaps will be identified and discussed in the appropriate section.

The Department of Water Resources (DWR) has communicated through its staff that due to the Covid-19 health crisis the department will accept the 2020 Annual Reports after April 1, 2020. As all consulting staff is adhering to the Governors Executive Order N-33-20, to “Shelter in Place” this report was submitted under these complicated efforts in the timeliest manner possible under these circumstances.

Monitoring data for water years 2017, 2018, and 2019 is stored in the data management system and is included in the Annual Report and submitted electronically on the forms provided by DWR.

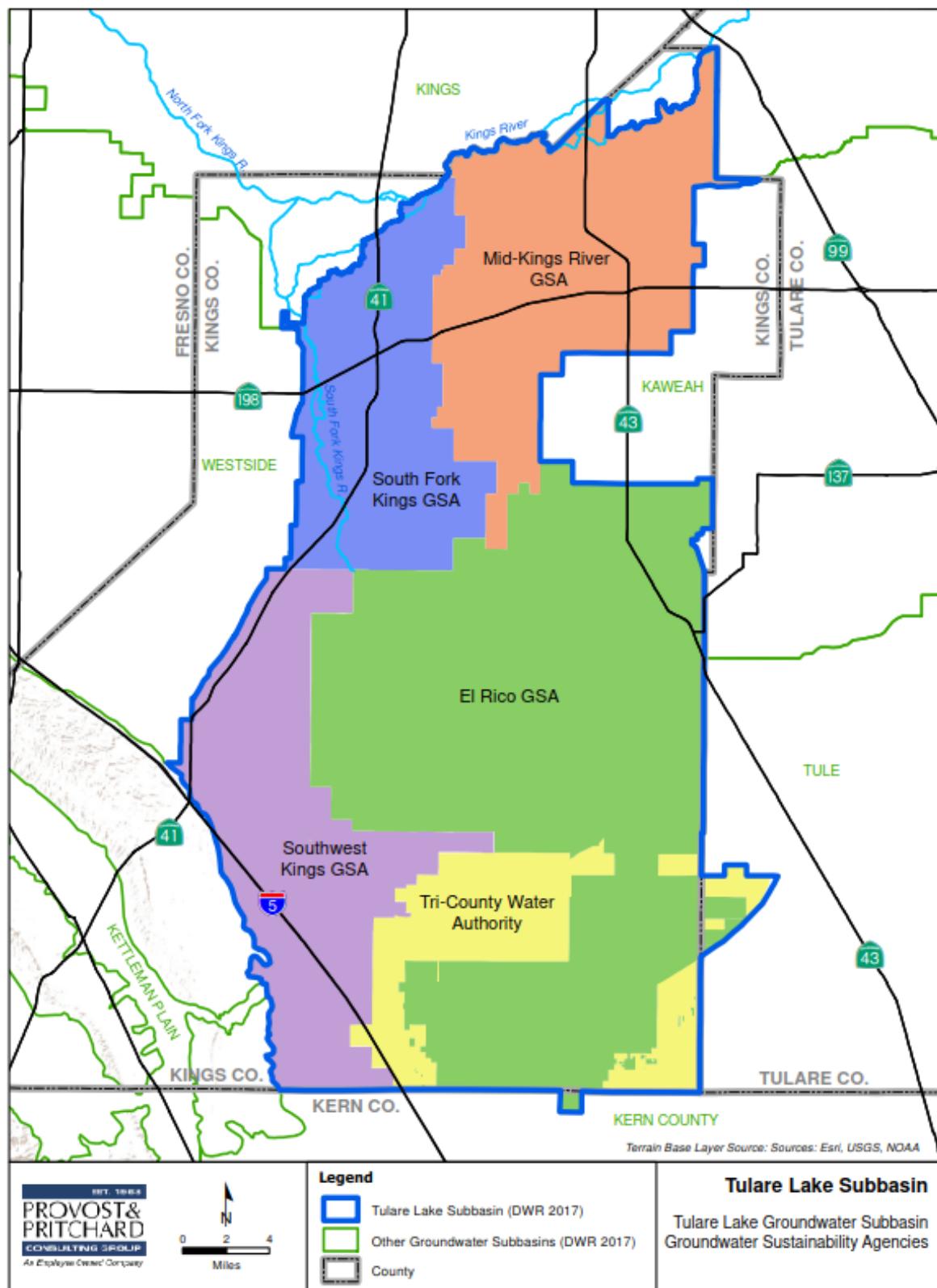


Figure 1-1-Tulare Lake Subbasin-Groundwater Sustainability Agencies-Area Covered by Report

2. Land Use and Surface Water Supplies

356.2(b) (3) Surface water supply used or available for use, for groundwater recharge or in-lieu use shall be reported based on quantitative data that describes the annual volume and sources for the preceding water year.

Land Use

Land use and cropping tables are shown in Appendix C based on United States Department of Agriculture (USDA) CropScape map data. Data from CropScape is updated annually and DWR land use data is not. The land use for calendar years 2015 and 2016 was generated using data from DWR. The land use data for calendar years 2017, 2018, and 2019 was generated using CropScape (USDA 2019) data source and was used for this annual report. The two data sources were set up to evaluate a comparison. From comparison of this data there appears to be a large increase in cropped acreage from 2016 to 2017. There were also slight differences with the types of crops reported from 2016 to 2017. A comparison was run for the year 2016 between the two data sources and there is approximately a 22% increase in crop acreage from DWR to CropScape.

Water year type coincides with the Kings River Water Association diversion classification for calendar year.

Surface Water Supplies

Canals and surface delivery systems are accounted for in the calculation of storage change. Seepage is a data gap, and is not in the surface water deliveries

Table 2-1 – Tulare Lake Subbasin – Surface Water Supplies and Water Year Type

Source	Surface Water Supplies (acre-feet)					
	2015 (Dry)	2016 (Dry)	2017 (Wet)	2018 (Normal)	2019 (Wet)	Average
Kings River	54,029	195,642	638,175	236,121	488,857	322,565
Kaweah River	0	355	44,063	0	21,939	13,271
Tule River	0	0	74,194	2,634	13,595	18,085
Deer Creek	0	0	25,842	2,155	9,662	7,532
White River	0	0	0	0	0	0
Poso Creek	0	0	17,060	0	902	3,592
Kern River	0	0	0	0	0	0
State Water Project (SWP)	13,102	14,430	69,440	34,109	43,483	34,913
Central Valley Project (CVP)	0	0	0	0	0	0
Imported Groundwater	87,874	76,651	42,333	73,061	6,468	57,277
Total	155,005	287,078	911,107	348,080	584,906	457,235

3. Groundwater Pumping

356.2(b) (2) Groundwater extraction for the preceding water year. Data shall be collected using the best available measurement methods and shall be presented in a table that summarizes groundwater extractions by water use sector, and identifies the method of measurement (direct or estimate) and accuracy of measurements, and a map that illustrates the general location and volume of groundwater extractions.

Estimated groundwater pumping was calculated using Land use/cropping data, adjusted crop evapotranspiration values, available surface water, effective rain fall, estimated irrigation efficiency, and recharge. The following general equation was used:

$$\begin{aligned}
 \text{Groundwater Pumping} = & \text{Crop Demand} \\
 & + \text{M&I Demand} \\
 & + \text{Urban Demand} \\
 & - \text{System Delivery Loss (Seepage)} \\
 & - \text{All surface water supplies} \\
 & - \text{Deep Percolation due to Irrigation Efficiency} \\
 & - \text{Effective rain fall}
 \end{aligned}$$

Groundwater pumping estimates for agricultural vary from metered records as identified previously and could be plus or minus 20%.

It should be noted that the difference between M&I Demand and Urban Demand is as follows, Urban classification are the areas outside the Municipal service area associated with rural residential use.

Table 3-1 – Tulare Lake Subbasin – Groundwater Extraction by Sector

Sector	2015	2016	2017	2018	2019	Average
Agricultural	502,745	405,747	132,418	677,695	444,319	432,585
Industrial						
Municipal	23,765	23,152	24,192	26,420	26,571	24,820
Native Vegetation						
Urban	8,400	8,400	9,500	9,500	9,500	9,060
Total	534,910	437,299	166,110	713,615	480,390	466,465

Industrial extraction values are included in the Municipal numbers.

356.2(b) (4) Total water use shall be collected using the best available measurement methods and shall be reported in a table that summarizes total water use by water use sector, water source type, and identifies the method of measurement (direct or estimate) and accuracy of measurements. Existing water use data from the most recent Urban Water Management Plans or Agricultural Water Management Plans within the basin may be used, as long as the data are reported by water year.

Water use by sector can be seen in Table 3-2. Water sources type can be seen in Table 2-1 (Surface Water) and Table 3-1 (Groundwater Extraction). Values for the volume of water that went into storage during the wet years were estimated. Estimated values are based on the best available data and sound engineering judgment.

Water Use by Sector

Water use by sector is presented in Table 3-2.

Table 3-2 – Tulare Lake Subbasin – Water Use by Sector

Water Use by Sector (acre-feet)						
Sector	2015	2016	2017	2018	2019	Average
Agricultural	705,300	788,500	1,101,800	1,063,500	1,138,400	959,500
Industrial	--	-	-	-	-	-
Municipal	23,765	23,152	24,192	26,420	26,571	24,820
Native Vegetation	0	0	0	0	0	0
Urban	8,400	8,400	9,500	9,500	9,500	9,060
Total	737,465	820,052	1,135,492	1,099,420	1,174,471	993,380

It should be noted that the water use by sector is larger than the sum of the surface water supplies and groundwater pumping due to additional supplies that accrue due to precipitation. It is also noted that native vegetation demand is supplied by beneficial rain. It is recognized that this condition occurs throughout the basin but has not been quantified.

356.2(b) (5) (B) A graph depicting water year type, groundwater use, the annual change in groundwater in storage, and the cumulative change in groundwater in storage for the basin based on historical data to the greatest extent available, including from January 1, 2015, to the current reporting year.

Figure 3-1, below, shows the estimates of annual change in storage, cumulative change in storage, the preceding water year percent, and the preceding water year estimated total groundwater pumping for the Subbasin for the period spring 2015 to spring 2019. As discussed, below, and shown on the groundwater contour and subsidence maps the estimates of storage change presented here are based on data that does not cover the whole Subbasin and therefore are not expected to match the storage change estimates from the model.

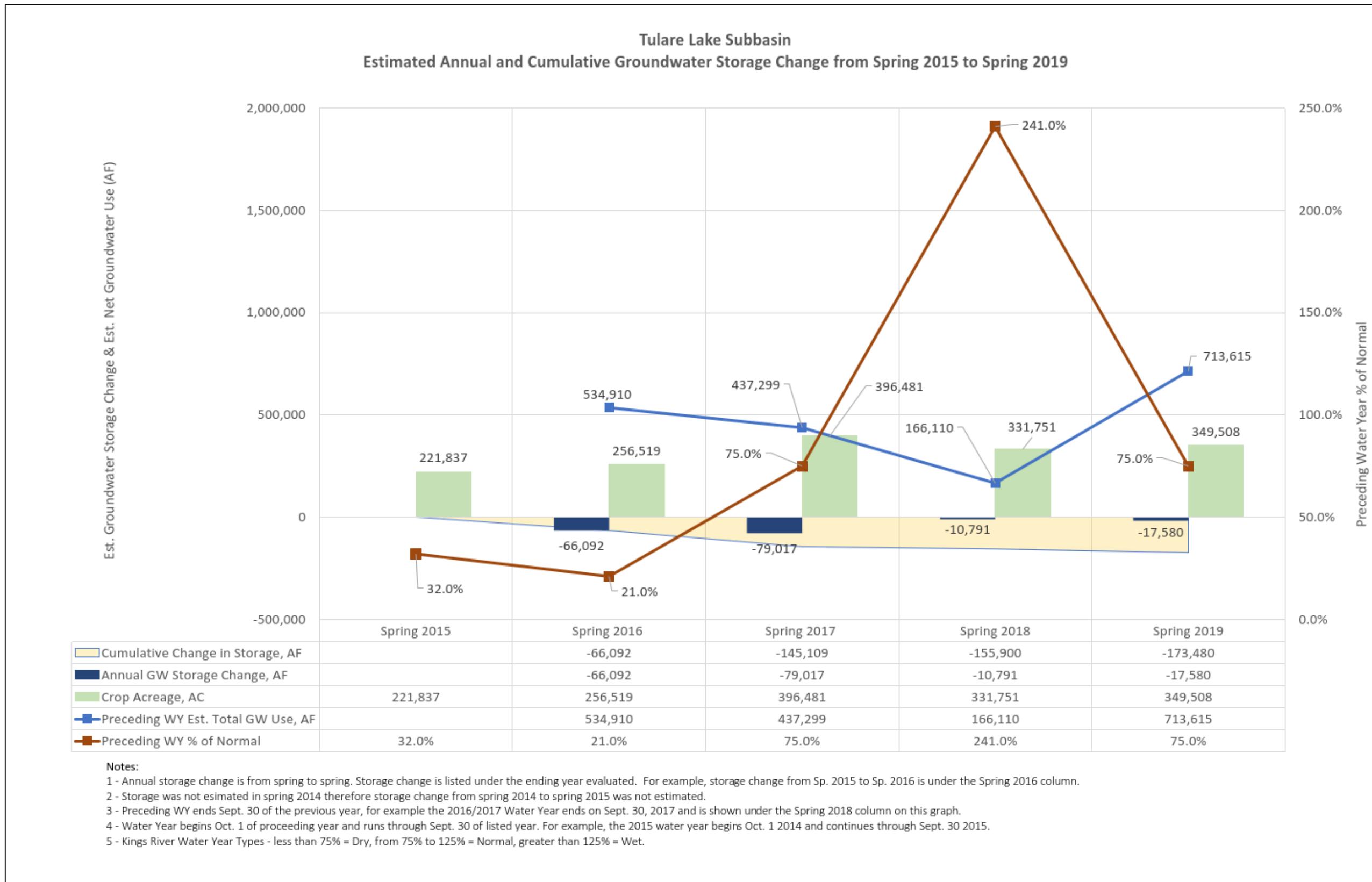


Figure 3-1-Annual and Cumulative Estimated Storage Change, Percent Water Year, and Estimated Groundwater Use

4. Sustainable Management Criteria

The Sustainable Groundwater Management Act (SGMA) defines sustainable groundwater as the management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results.

4.1 Sustainable Goal

The goal of this annual report provides information to support the sustainable goal from Tulare Lake Subbasin Groundwater Sustainability Plan (GSP) to manage groundwater resources and to continue to provide an adequate water supply for existing beneficial uses and users in the Subbasin while meeting established measurable objectives to maintain a sustainable groundwater yield. This first annual report period begins as SGMA becomes active and ends just prior to the Tulare Lake Subbasin's GSP being submitted to DWR.. The data that has been gathered has been input into the Tulare Lake Subbasin's Data Management System (DMS) and is also displayed in the various maps, tables and figures included in this document. The values for each of the Measurable Objectives (MO) and Minimum Thresholds (MT) from the GSP may be referred to from time to time in this report but are shown for reference purposes only.

4.2 Groundwater Levels

356.2(b) (1) (A) Groundwater elevation contour maps for each principal aquifer in the basin illustrating, at a minimum, the seasonal high and seasonal low groundwater conditions.
356.2(b) (1) (B) Hydrographs of groundwater elevations and water year type using historical data to the greatest extent available, including from January 1, 2015, to current reporting year.

The Tulare Lake Subbasin monitoring networks includes forty-nine (49) existing Representative Monitoring Site (RMS) wells for which Sustainable Management Criteria (Interim Milestones, MO and MT) have been set for water levels (see Appendix A for hydrographs of the RMS wells). The RMS well locations are shown on the inset maps on each RMS hydrograph. The RMS well hydrographs include some data for the A zone, B zone, and the C zone. The date range selected for the hydrographs is from 1970 to the most current data. This date range captures the majority of the available data.

Groundwater Elevation contours were generated for spring of each year from 2015 to 2019 and fall 2019 utilizing ArcGIS software and an iterative process for the A zone and B zone. The C zone RMS wells are plotted on the maps for the period of 2015 to 2019. See Appendix D for the Estimated Groundwater Surface Elevation contour maps and the data point maps for the C zone. ArcGIS was then used to compare the groundwater surface elevation contours between successive years for use in the storage change evaluation discussed below. Water level data from the RMS wells plus data from other wells monitored by various entities in the Subbasin were used in the groundwater elevation contouring process and estimating change in storage.

MO's and MT's are shown on the hydrographs for reference only. It has been noticed that some MOs and MTs might need adjustment, for example in hydrographs where the existing water levels are below the MO's and the MT's will need to be adjusted.

4.3 Groundwater Storage

356.2(b) (5) (A) Change in groundwater storage maps for each principal aquifer in the basin.

Change in groundwater storage for the A zone and B zone were estimated using the contour maps as described above by comparing the difference in groundwater elevation surfaces between the springs of successive years in the 2015 to 2019 period. Specific yield values from *Ground-water flow in the Central Valley, California* (USGS 1401-D) were used to estimate the change in storage by specific yield unit. The storage change was then calculated for the Subbasin. The estimates shown in the tables below are the change in storage in the various aquifers based upon the maps found in Appendix D. There is insufficient data coverage and understanding to segregate the values over the entire basin.

For this Annual report, Groundwater Storage Change in the C-Zone was calculated using land subsidence. It should be noted that annual groundwater storage change due to land subsidence or described here as water of compaction means that water was squeezed from the aquifer. Land subsidence was estimated using InSAR land subsidence data for the period June 2015 to June 2019. There are two types of land subsidence related to groundwater withdrawals, elastic and inelastic. The elastic portion of subsidence is recoverable (meaning there is zero storage change) however the inelastic portion is not recoverable (meaning that the water that was derived from the aquifer cannot be refilled and therefore is identified in this document as being a loss of storage). It should be recognized that the estimates of groundwater storage change due to land subsidence, see Table 4-3 below, are based on total subsidence and potentially overestimates the storage change. The GSAs will evaluate subsidence data in the future to develop the data needed to differentiate storage change due to inelastic subsidence versus recoverable elastic subsidence. The change in storage due to land subsidence is not believed to be totally ascribed to the C zone but is a part of the overall storage change.

Table 4-1 – Tulare Lake Subbasin – A-Zone Estimated Annual Change in Storage, Spring 2015 through Spring 2019

Groundwater Sustainability Agency	A-Zone-Estimated Annual Change in Groundwater Storage (acre-feet)					
	Spring 2015 - Spring 2016	Spring 2016 - Spring 2017	Spring 2017 - Spring 2018	Spring 2018 - Spring 2019	Total-Spring 2015 - Spring 2019	Average-(Spring 2015 - Spring 2019)
Mid Kings GSA	-11,699	-2,910	+10,552	+12,874	+8,817	+2,204,
South Fork Kings GSA	-2,206	+6,768	+3,849	+5,037	+13,448	+3,362
El Rico GSA	No Data					
Southwest Kings GSA	No Data					
Tri County GSA	A-zone not present					
Total	-13,905	+3,858	+14,401	+17,911	+22,265	+5,566,

The A-zone is limited and does not extend into some of the GSAs

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Table 4-2 – Tulare Lake Subbasin – B-Zone Estimated Annual Change in Storage, Spring 2015 through Spring 2019

Groundwater Sustainability Agency	B-Zone-Estimated Annual Change in Groundwater Storage (acre-feet)					
	Spring 2015 - Spring 2016	Spring 2016 - Spring 2017	Spring 2017 - Spring 2018	Spring 2018 - Spring 2019	Total-Spring 2015 - Spring 2019	Average-(Spring 2015 - Spring 2019)
Mid Kings GSA	+30,465	-27,991	+40,672	+64,924	+108,069	+27,017
South Fork Kings GSA	+70,627	+46,044	-8,201	-15,775	+92,694	+23,173
El Rico GSA	No Data					
Southwest Kings GSA	No Data					
Tri County GSA	Limited to No B-Zone Pumping					
Total	+101,092	+18,053	+32,471	+49,149	+200,763	+50,191

There are several data gaps in each aquifer zone, as discussed in the GSP. In areas of data gaps groundwater storage change was not able to be estimated for each aquifer zone. The GSAs will continue to work to improve the aerial coverage and reliability of data within the basin.

Table 4-3 – Tulare Lake Subbasin – Estimated Annual Change in Storage due to Land Subsidence, Spring 2015 through Spring 2019

Groundwater Sustainability Agency	Estimated Annual Change in Groundwater Storage due to Land Subsidence (acre-feet)					
	Spring 2015 - Spring 2016	Spring 2016 - Spring 2017	Spring 2017 - Spring 2018	Spring 2018 - Spring 2019	Total-(Spring 2015 - Spring 2019)	Average-(Spring 2015 - Spring 2019)
Mid Kings GSA	-52,280	-39,939	-23,551	-29,294	-145,064	-36,266
South Fork Kings GSA	-43,353	-27,410	-13,790	-21,523	-106,076	-26,519
El Rico GSA	-50,475	-28,517	-22,541	-26,810	-128,343	-32,086
Southwest Kings GSA	-5,073	-3,056	2,114	-4,257	-10,272	-2,568
Tri County GSA	-2,097	-2,006	105	-2,755	-6,753	-1,688
Total	-153,278	-100,927	-57,662	-84,640	-396,508	-99,127

4.4 Storage change totals by year

Storage change values by year can be seen in Table 4-1, Table 4-2, Table 4-3 and summarized in Figure 3-1. During the base period (1998-2010) the estimated annual change in storage in the Subbasin averaged about -73,760 AF/Y. During the 2015-2019 period the estimated annual change in storage averaged approximately -43,370 AF/Y. Storage change was estimated using contour maps and hydrographs in the A and B zones. Subsidence values were used to calculate storage change, termed water of compaction,

due to land subsidence. As mentioned above, storage change due to land subsidence is not believed to be totally ascribed to the C zone but it is part of the overall storage change estimates.

4.5 Sea Water Intrusion

As the Subbasin is not adjacent to the coast, sea water intrusion is not a concern and will not be monitored.

4.6 Groundwater Quality

Groundwater quality time series graphs were developed using data from the electronic data transfer (EDT) Library. The data presented here represents the base line per each constituent being monitored. The groundwater quality time series-graphs have not been reviewed for trends but will be evaluated for trends in the next Annual Report. See Appendix B for water quality graphs.

4.7 Land Subsidence

Land subsidence for the period June 2015 to June 2019 based on DWR InSAR data is shown on a map included in Appendix F. Benchmarks throughout the Subbasin are also shown on a map that indicate the average annual change in surface elevation during the period of April 2016 to December 2019. These data sources were crucial for analyzing subsidence trends along the California Aqueduct (Aqueduct). Reviewing the InSAR data, the Aqueduct mainly passes through the area of the map that is dark blue which indicates 0 to 0.3 ft of subsidence. Furthermore, the benchmark map is consistent with the InSAR data, measuring 0 ft of annual change along the Aqueduct. The data analyzed currently presents no discernable trends along the Aqueduct.

The Subbasin has set MOs and MTs for land subsidence at the Continuous Global Positioning System (CGPS) stations in Lemoore (station LEMA) and near Corcoran (station CRCN). The DWR InSAR maps use data from 231 CGPS stations throughout California from the UNAVCO network to calibrate the InSAR data. However, the LEMA and CRCN stations were not part of the CGPS calibration network. Since the InSAR data in the TLSB at the LEMA and CRCN stations were not used to calibrate the InSAR data a comparison between the two data sources from June 2015 to June 2019 was undertaken and the results are shown in Figures 4-1 and 4-2 below. The CGPS data is shown as the blue points/line and the data extracted from the InSAR raster files is shown as gray points/line. The modeled subsidence under the baseline scenario included in the Groundwater Sustainability Plan at 2017 and 2025 (Tables 4-2a and 4-3a) are also plotted on the graph as the green line and the resultant rate of subsidence is shown for this period. The Management Objective for 2040 was plotted on the graphs and the golden portion of the lines represents the change from 2025 to 2040. The Minimum Threshold are shown with the red line. Lastly, the rates of subsidence from the various data sources over their respective time periods are shown in text boxes on the graphs.

These graphs indicate the trend in subsidence from the two data sources is very similar but that the data sets deviate starting in about late 2016. The difference in reported values between the two data sources at the end of the period (June 2019) was 0.25 feet at the LEMA station and 0.36 feet at the CRCN station with the CGPS data showing more subsidence at both stations. The GSAs will evaluate potential reason(s) for the discrepancy and will report how the InSAR maps correlate with the CGPS data at the two CGPS stations in future annual reports.

From review of the graphs it appears that the Lemoore station data approximates the rates developed from the groundwater model and that a gradual transition of the lessening of subsidence rates is

occurring and consistent with projections. At the Corcoran station, the rate of subsidence is greater than projected by the groundwater model..

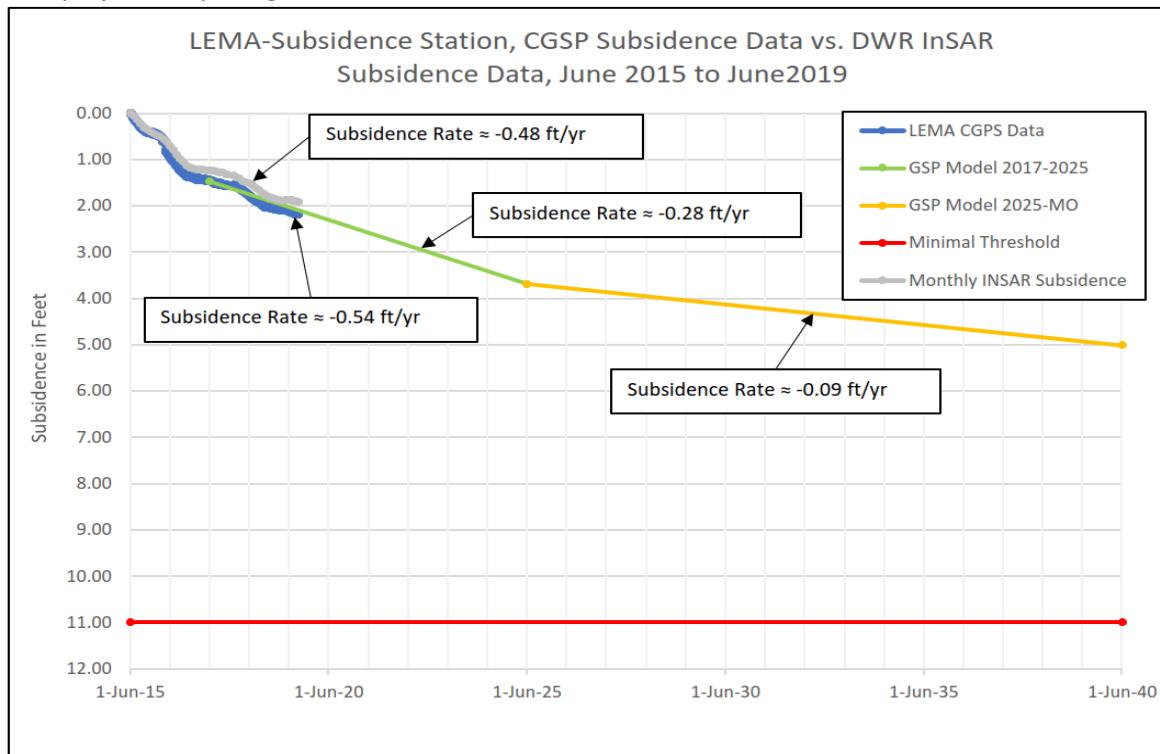


Figure 4-1-LEMA CGPS Data, InSAR Data, Interim Milestones, Measurable Objective, and Minimal Threshold

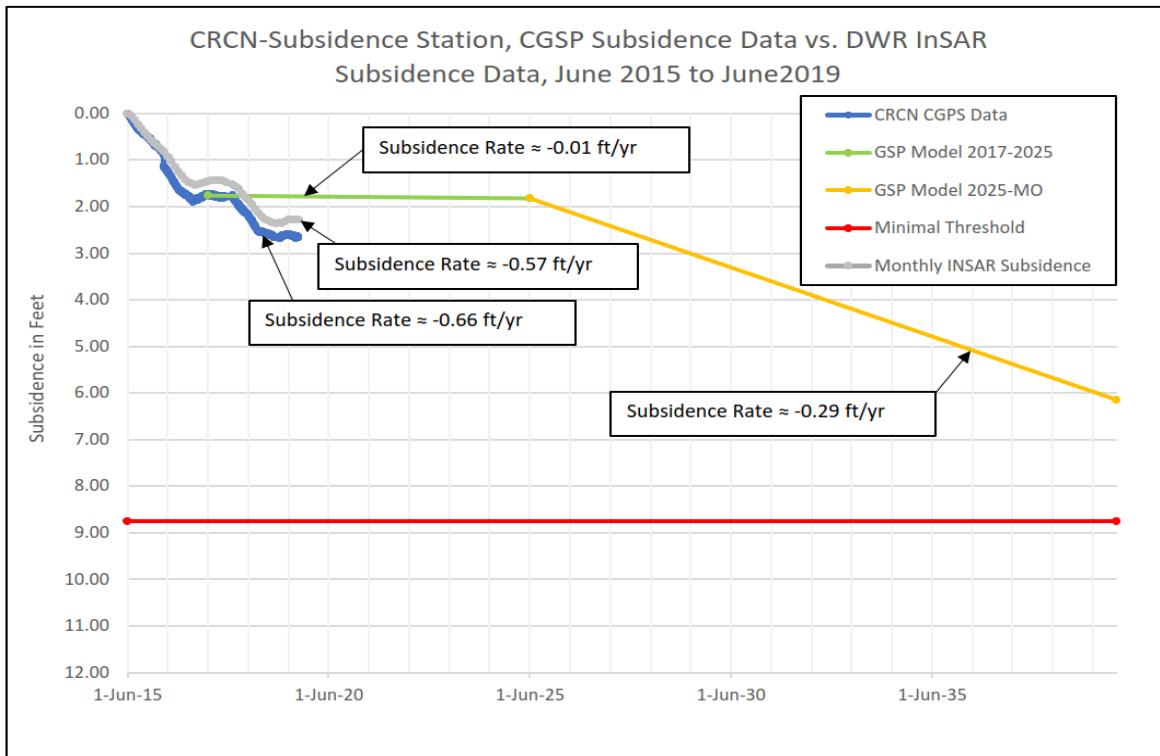


Figure 4-2- CRCN CGPS Data, InSAR Data, Interim Milestones, Measurable Objective, and Minimal Threshold

4.8 Surface to Groundwater Interconnection

At the present time there is insufficient data to support a surface to groundwater interconnection. As data gaps are filled and additional data is reviewed the results will be reported future GSP updates.

5. Monitoring Network

Since the submittal of the Tulare Lake GSP there has been no updates to the monitoring network. Data gaps in the RMS wells are planned to be filled prior to the 5-year update in 2025; each new RMS will be included in the annual update for that year if the data coincides with the data gathering cycle.

6. Groundwater Projects and Management Actions Status

356.2(b) (5) (C) A description of progress towards implementing the Plan, including achieving interim milestones, and implementation of projects or management actions since the previous annual report.

Between 2015 and 2019 it appears that normal management occurred in wet and average years contributing to the decrease in groundwater pumping and the increased groundwater storage in the A and B zones. GSA activities/efforts in 2020 include continuing outreach at GSA board meetings as well as the following:

- Mid Kings River GSA
 - Kings County Water District Activities
 - Initiation of development of an 80-acre infiltration basin
 - Participation in Stanford-Kaweah efforts related to subsidence and groundwater levels to understand the relationship between groundwater levels and geologic properties related to subsidence in the area.
- El Rico GSA-has implemented policy requiring meters on all groundwater wells in their area by the end of 2020.
- Tri-County Water Authority GSA
 - Land IQ has been retained to provide remote sensing data to estimate groundwater pumping and is expected to be implemented by August 2020.
 - The GSA is requiring meters on all groundwater wells in their area by 2020.
- South Fork GSA-
 - Continued coordination efforts with Westlands Water District regarding the adjacent boundaries.
 - SFK is moving forward with determining a GSA-wide water measuring method and is evaluating different methods.
 - SFK is also moving forward with the ASR pilot test and is in negotiations with regulatory agencies.
 - SFK continues to pursue opportunities with surrounding GSAs to participate in sustainability projects.
- Southwest Kings GSA-is continuing coordinate with the other GSA's within the Subbasin to participate in sustainability efforts within the Subbasin.

7. Data Gaps

As documented in the adopted GSP there are data gaps on wells and water level information as identified. These gaps are planned to be filled in the coming years per the GSP.

Water Level:

The A zone data gaps identified in the GSP are shown on the A zone groundwater contour maps. Those areas on the maps identified as areas with limited data include the data gap areas identified in the GSP. In the future the GSAs will evaluate the data coverage in the A zone and fill the data gaps as needed.

The B zone data gaps identified in the GSP are shown on the B zone groundwater contour maps. For the most part the data gaps identified in the GSP are generally consistent with the data gaps shown on the B zone maps. In the future the GSA will evaluate the data coverage in the B zone and fill data gaps as needed.

The C zone data gap areas are shown on the C zone well water level maps. As can be seen the data gap areas identified in the GSP lack C zone data. As well, RMS wells without data for the period 2015 to 2019 will be evaluated to ensure that data can be collected from those wells during plan implementation. In the future data coverage in C zone will be evaluated and data gaps filled as needed.

Data gaps in the Southwest Kings GSA area are due to the lack of wells in the area from which hydrographs can be produced.

Data gaps within the SFKGSA also includes limited data from the monitoring locations in the different zones. SFKGSA is working with landowners to finalize agreements to collect data from additional locations and expects to have additional data by fall 2020.

Subsidence:

The GSA's continue to evaluate the need and ability to develop a local ground-based elevation system in which to gain information on ground movement. To that end, the Kings River Conservation District has presented a concept on establishment of monitoring sites that would be surveyed every year to gain site specific data.

8. References

Williamson, A. K., Prudic, D. E., & Swain, L. A., 1989, *Ground-water flow in the Central Valley, California*, USGS Professional Paper 1401-D.

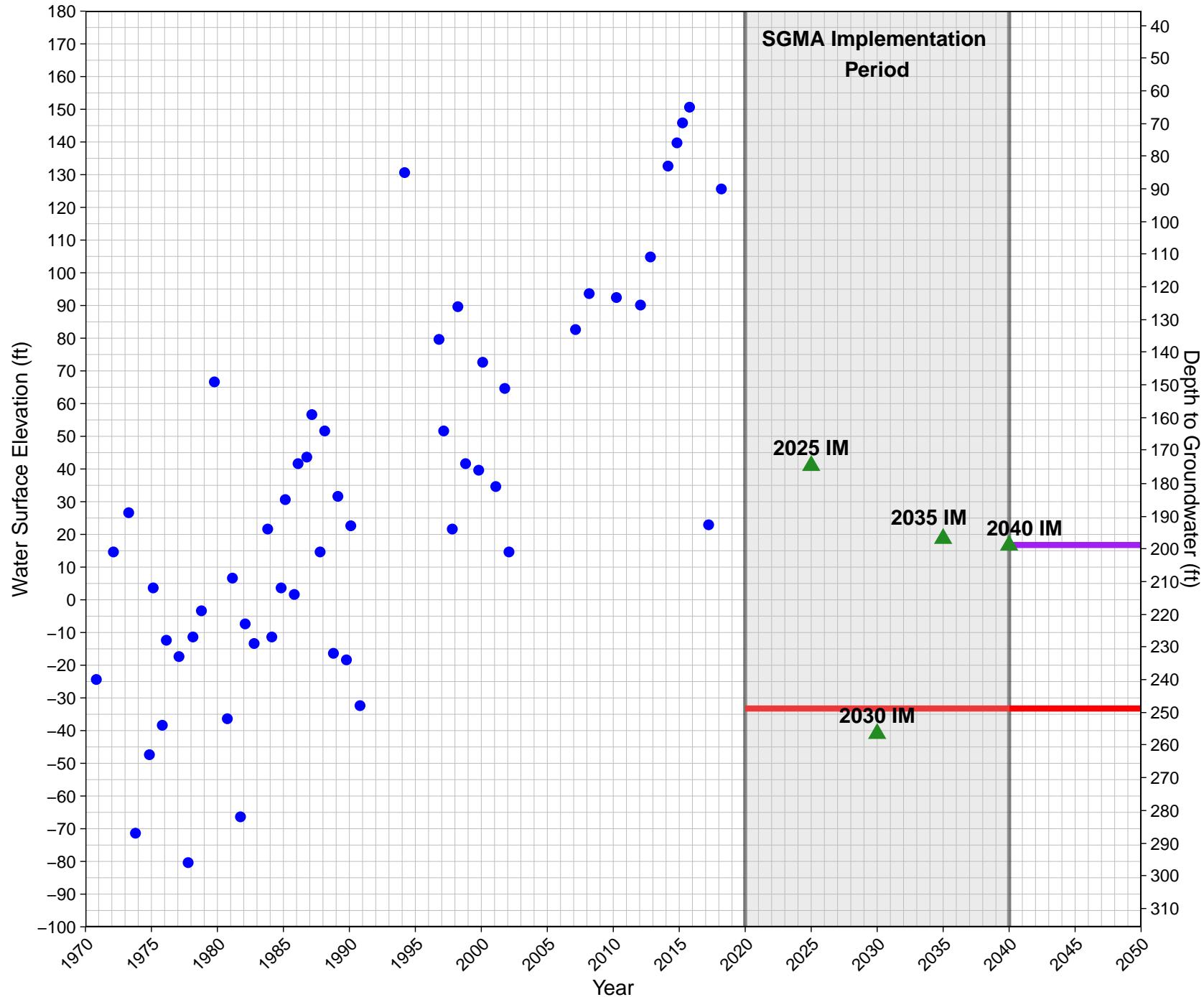
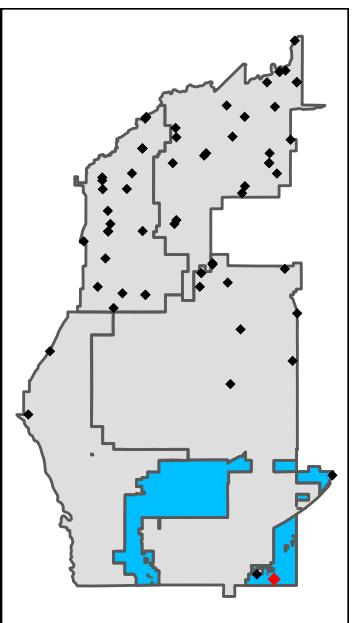
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Appendix A – Groundwater Level Data Hydrographs

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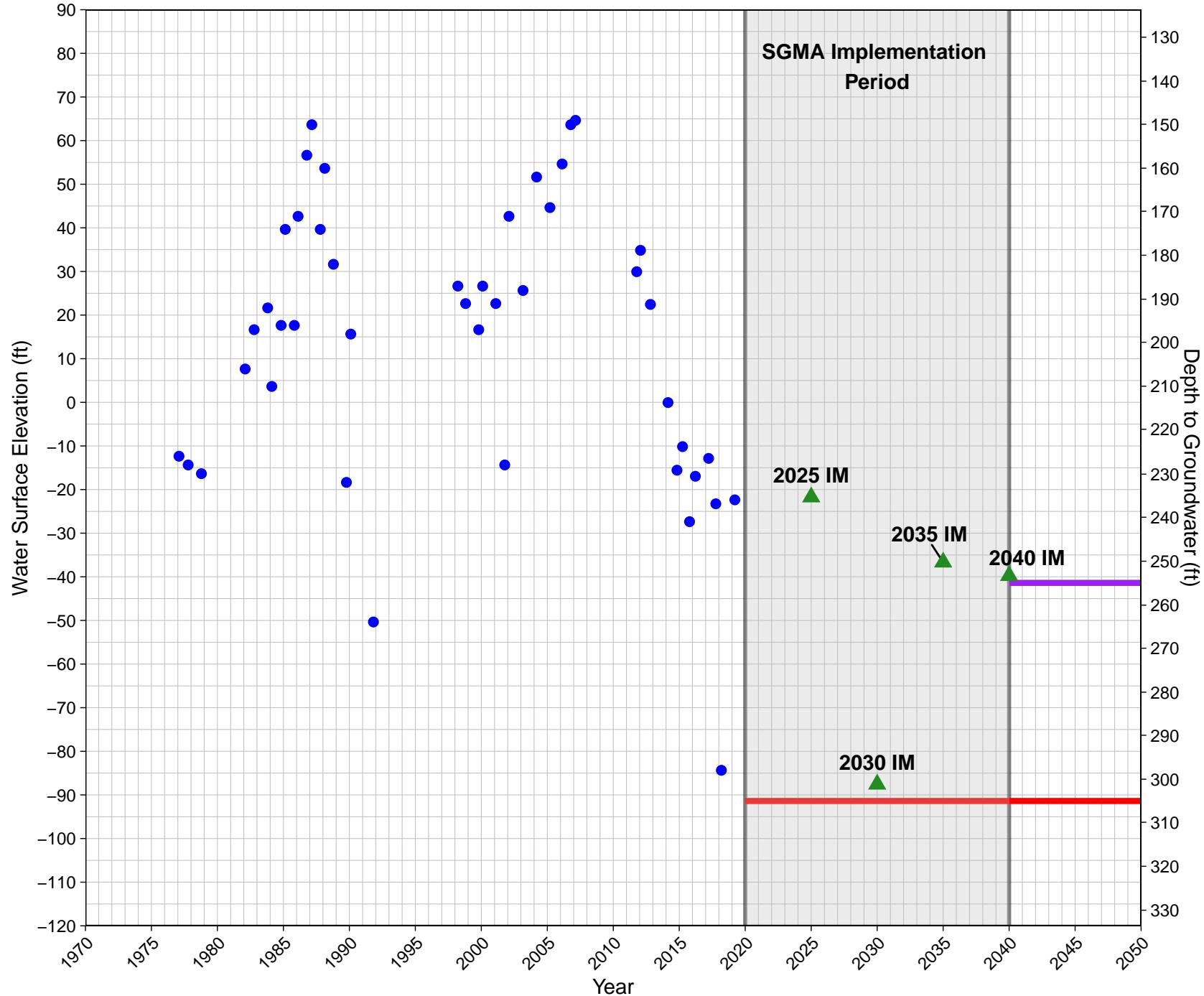
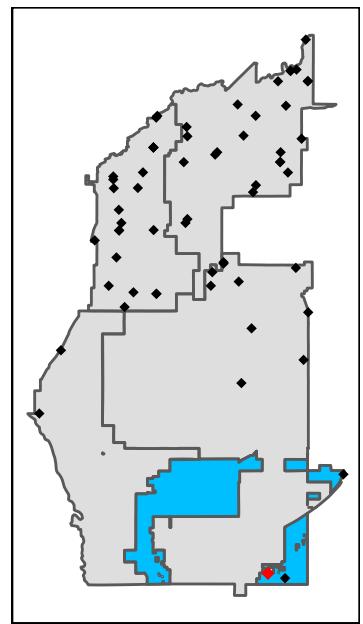
Tri-County Water Authority
Below E Zone C



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◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

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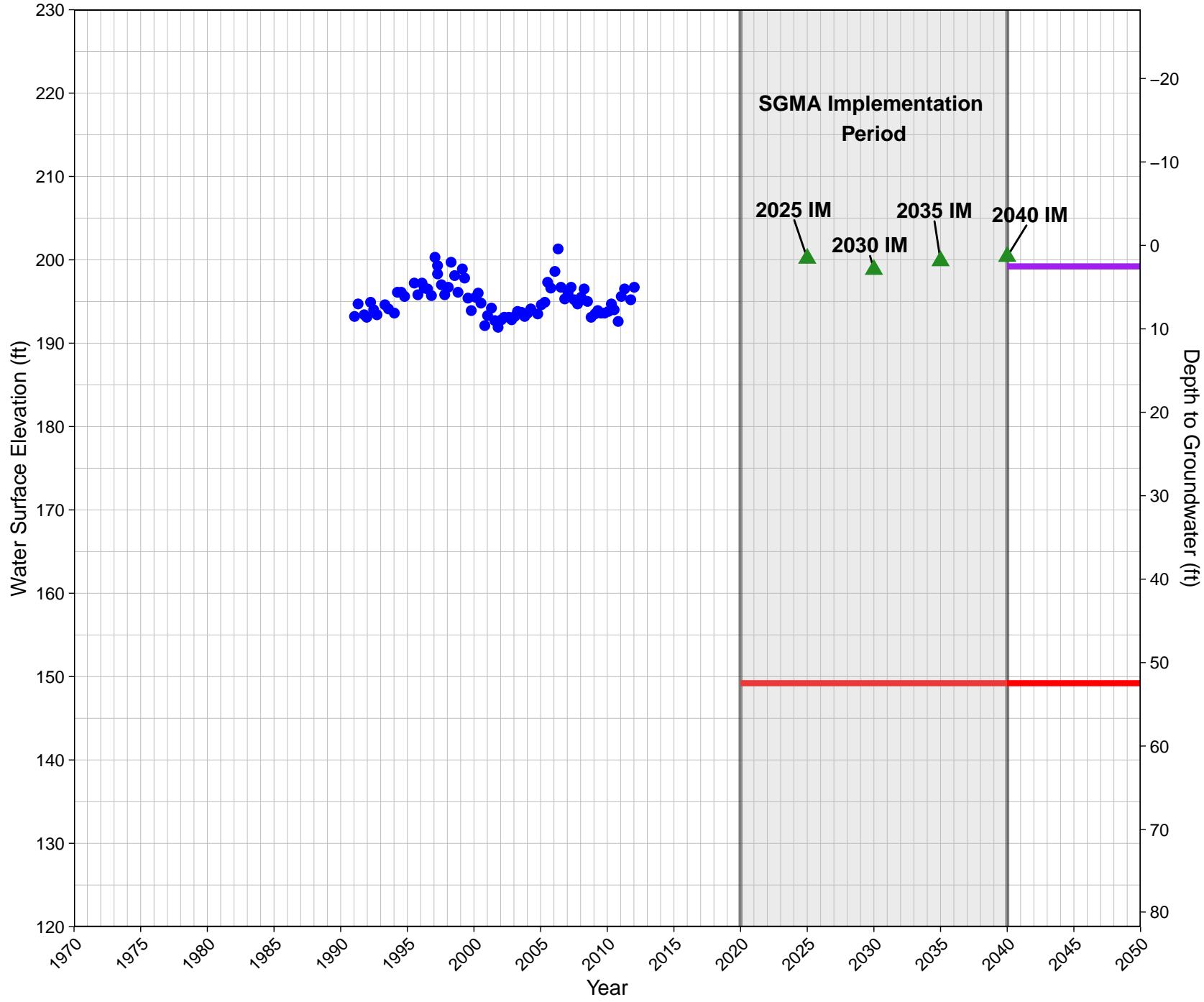
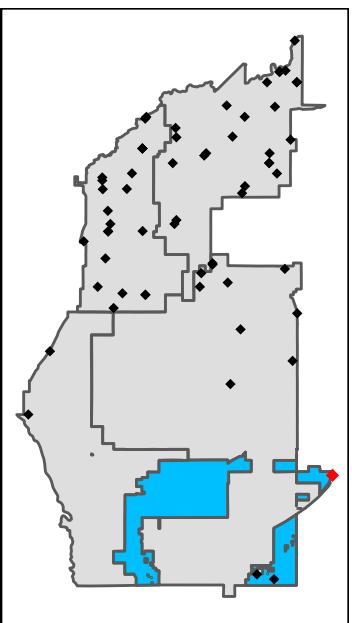
Tri-County Water Authority
Below E Zone C

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- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

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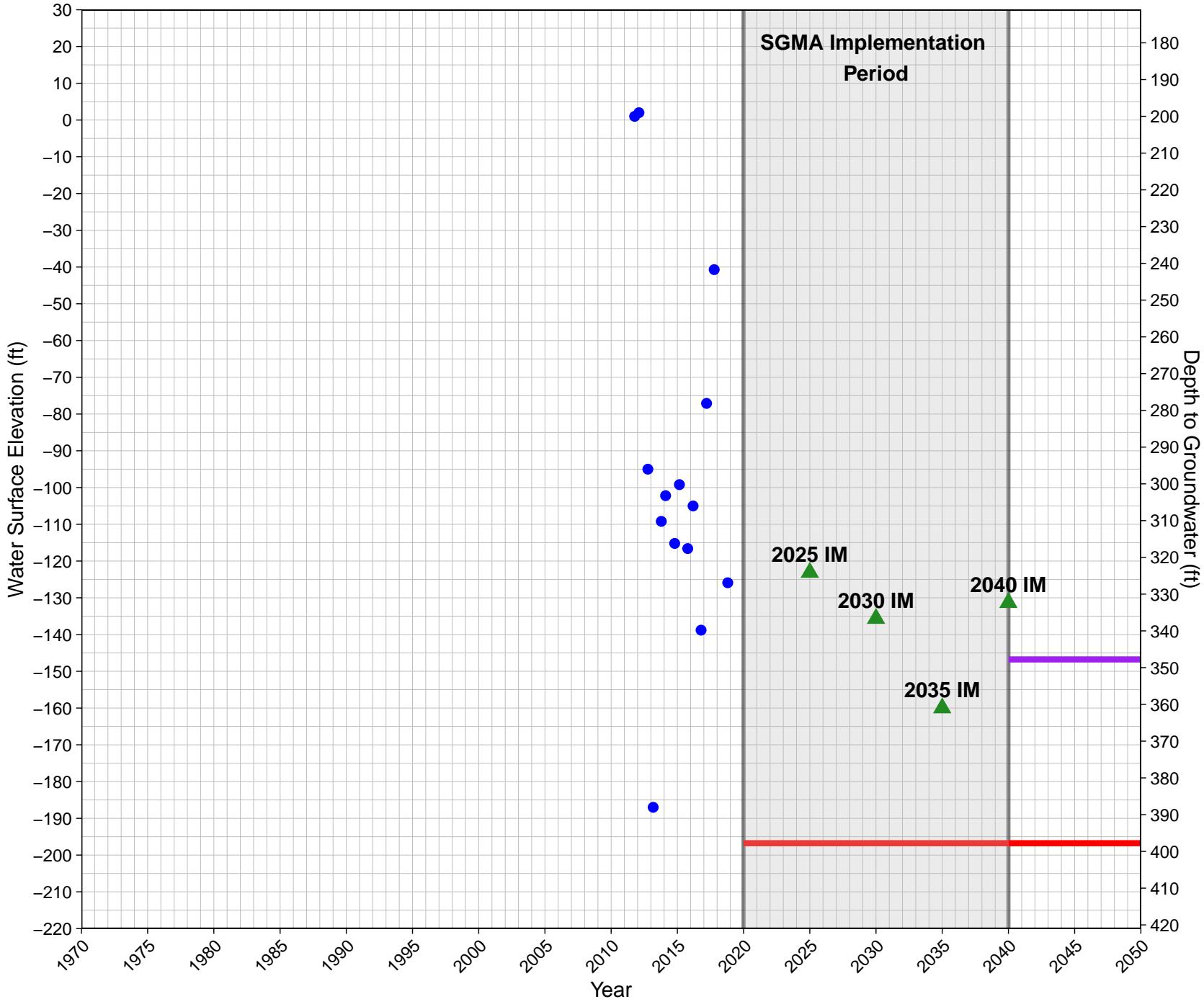
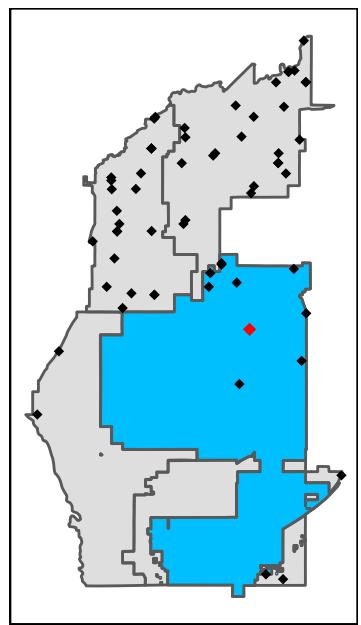
Tri-County Water Authority
Above A Zone A



019

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

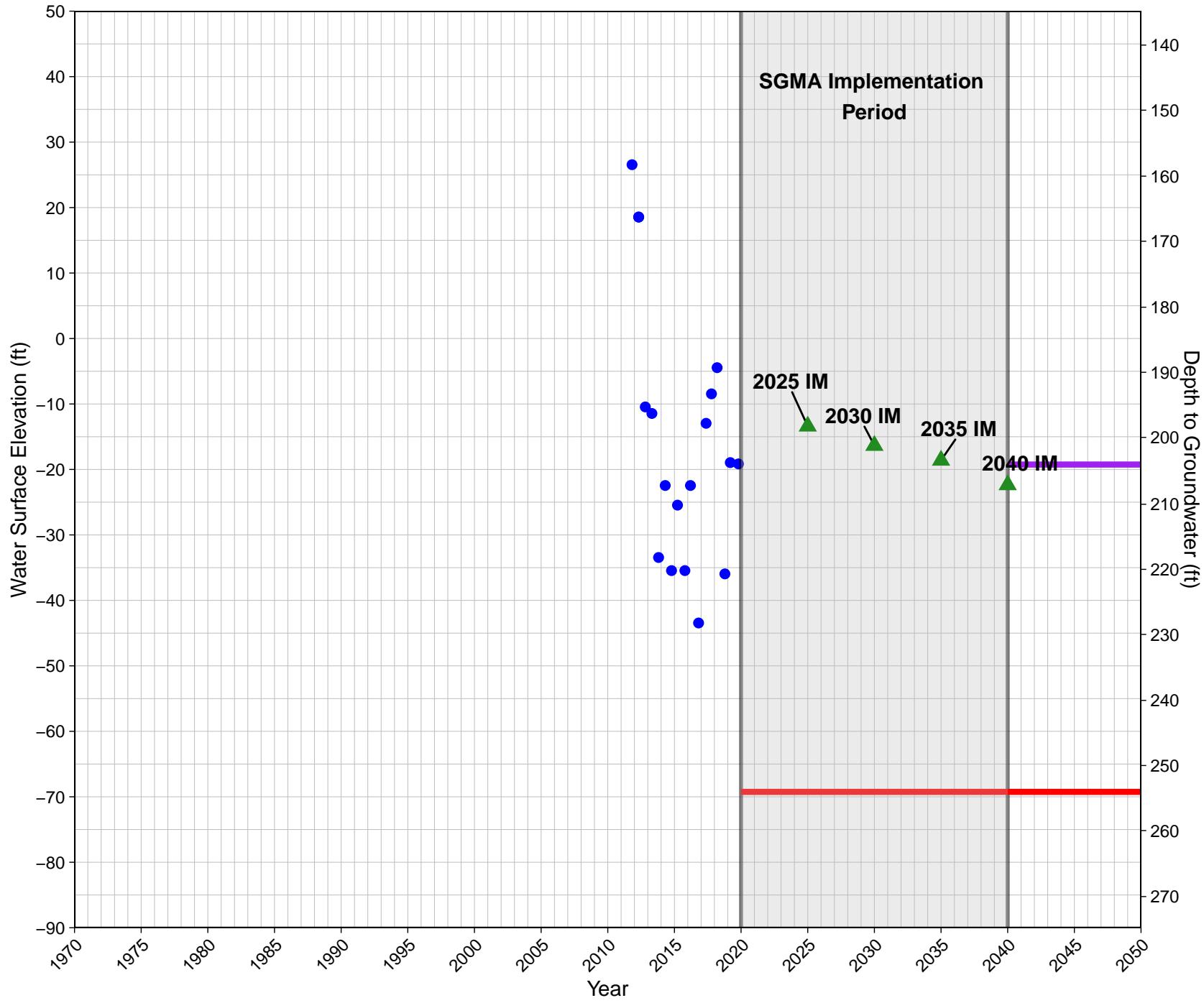
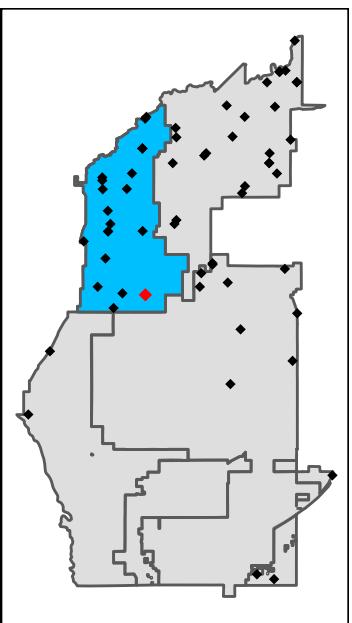
361158N1196258W001

El Rico GSA
Below E Zone C

020

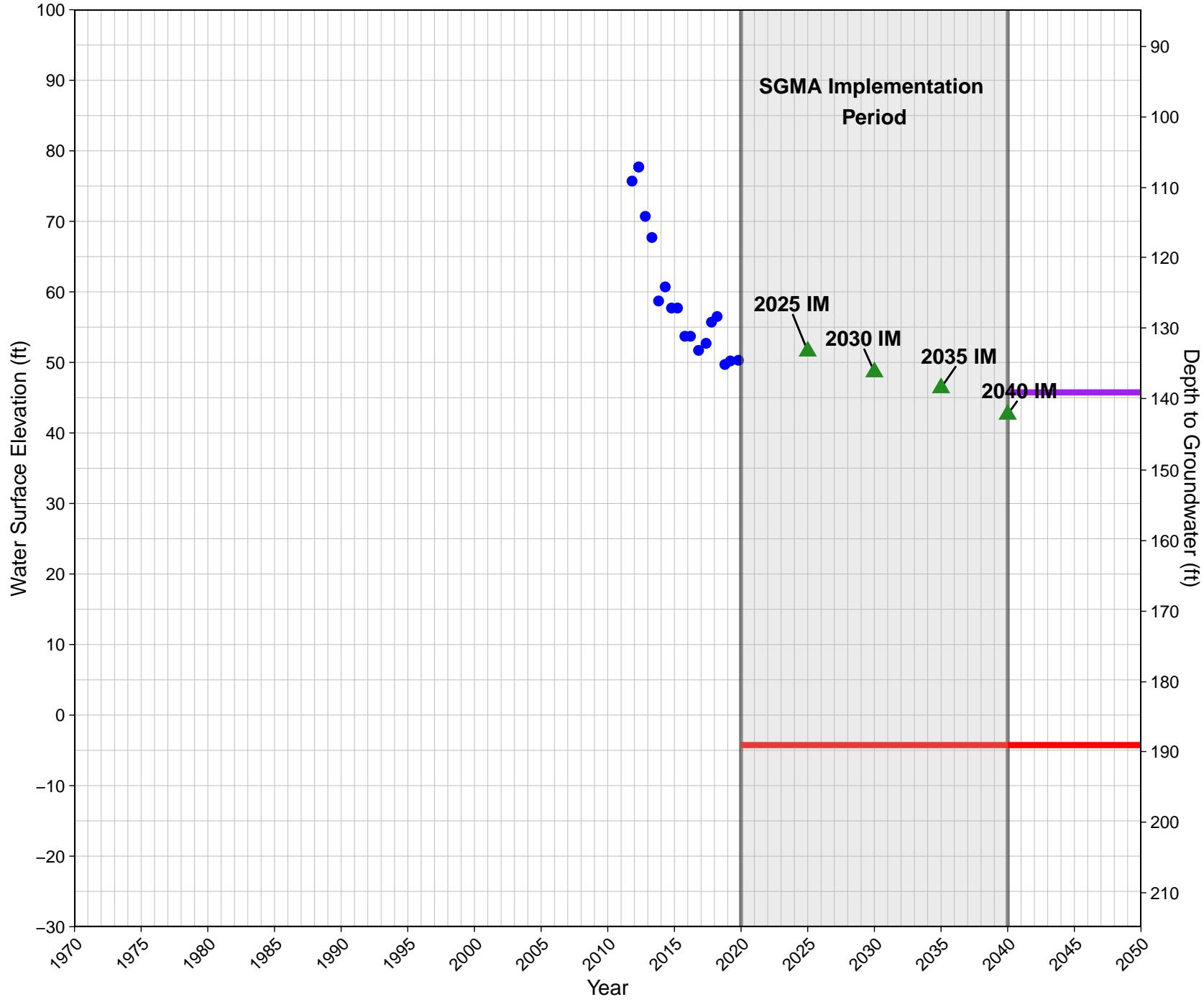
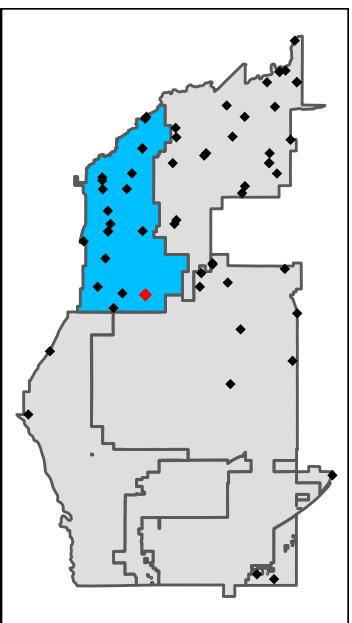
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

361600N1197700W001

South Fork Kings GSA
Above E Zone B

021
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

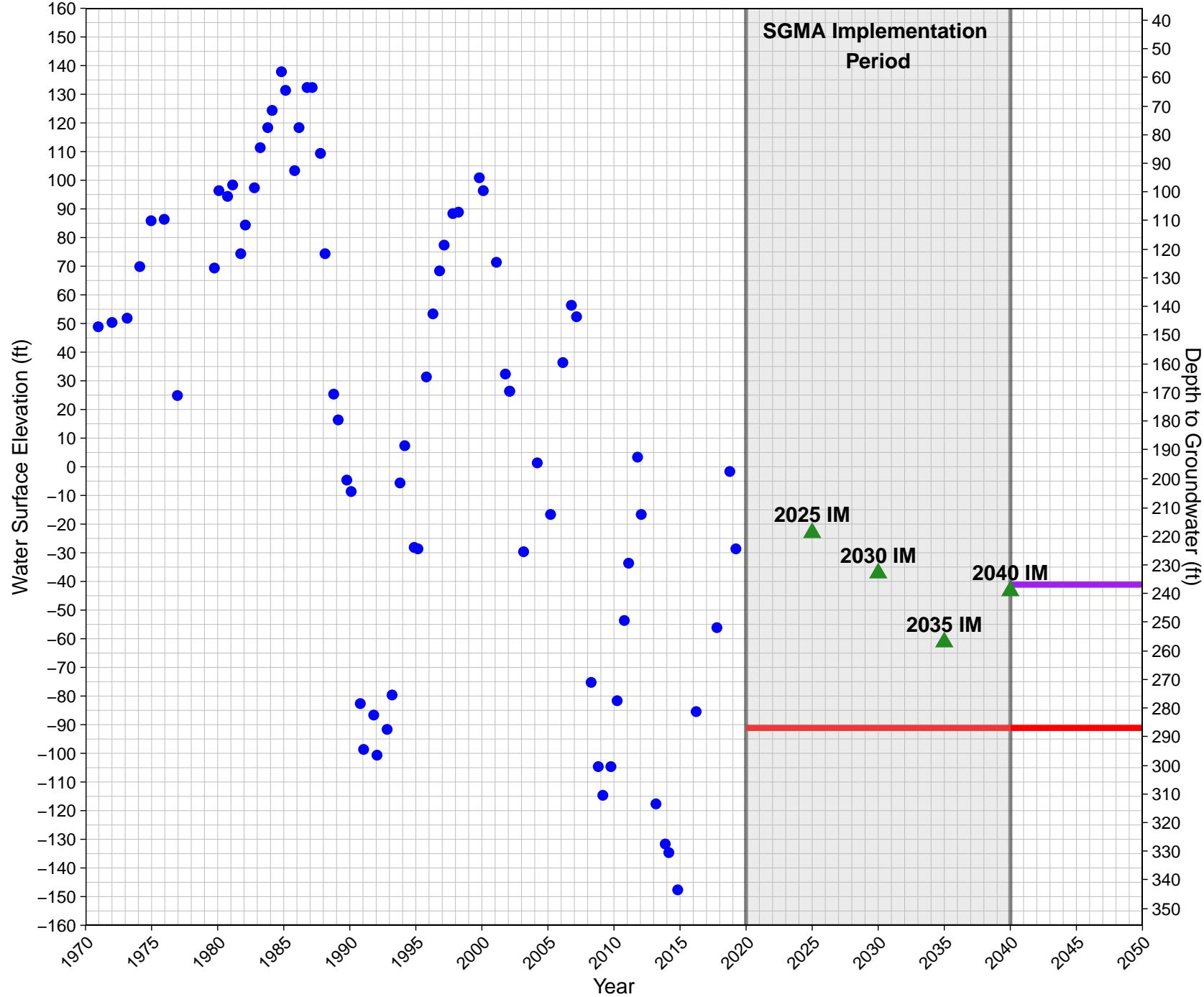
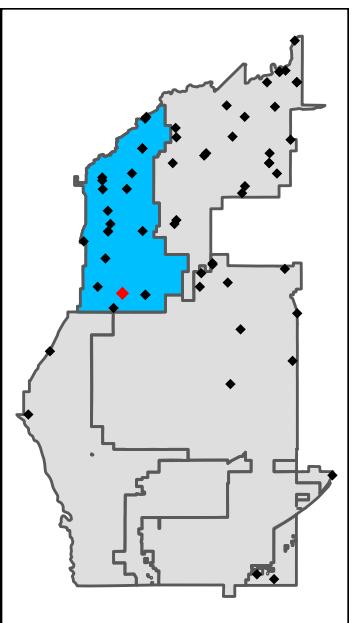
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South Fork Kings GSA
Above E Zone B

022

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

361617N1198124W001

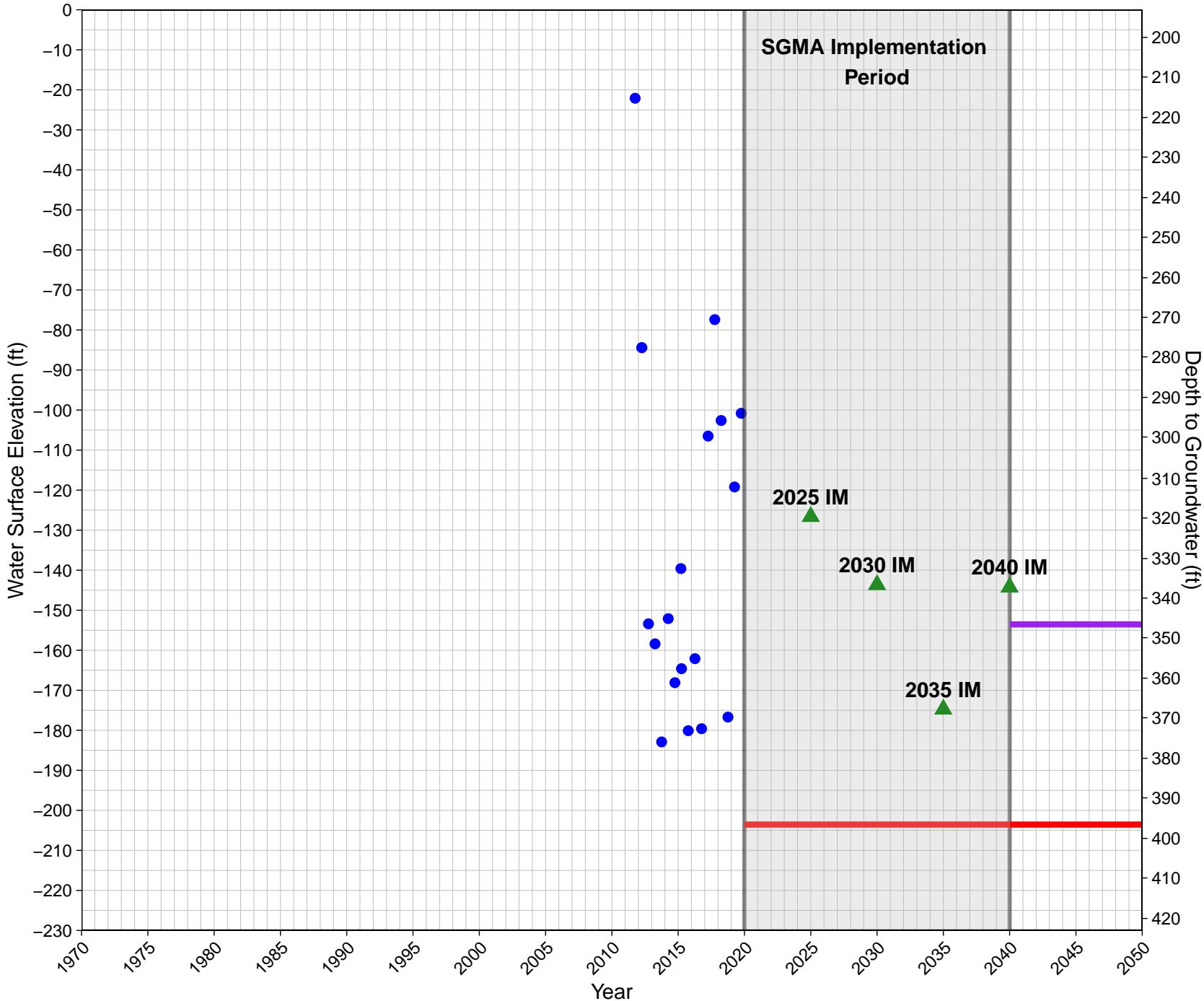
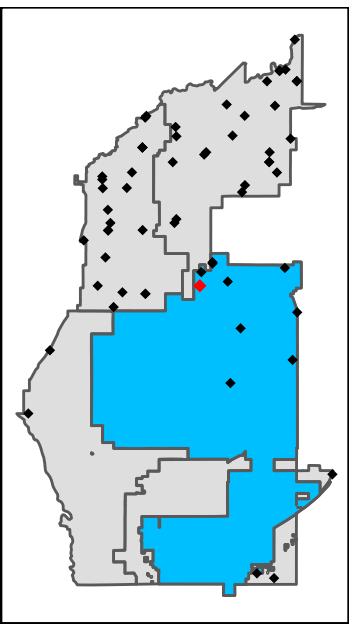
South Fork Kings GSA
Below E Zone C

023

- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

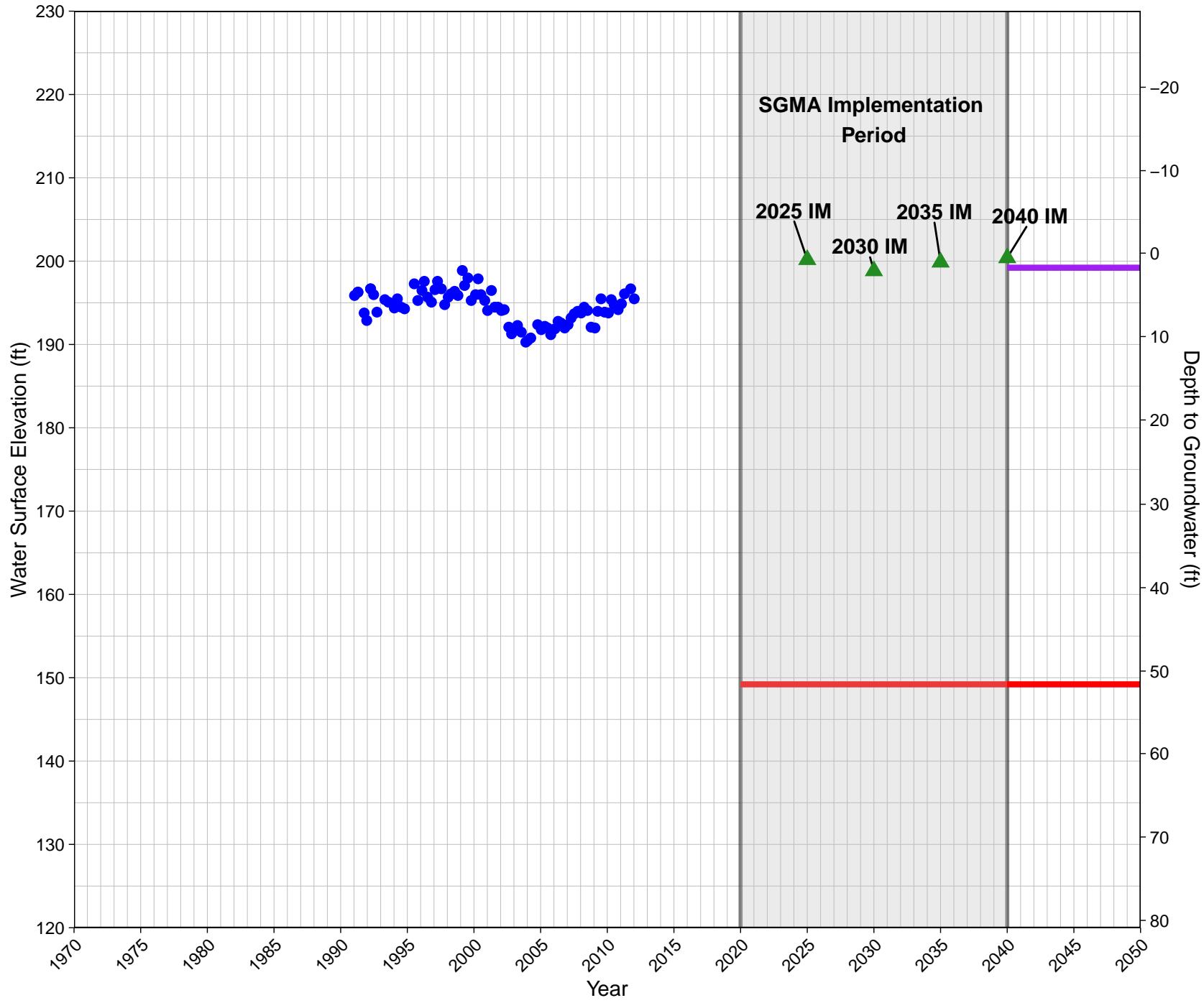
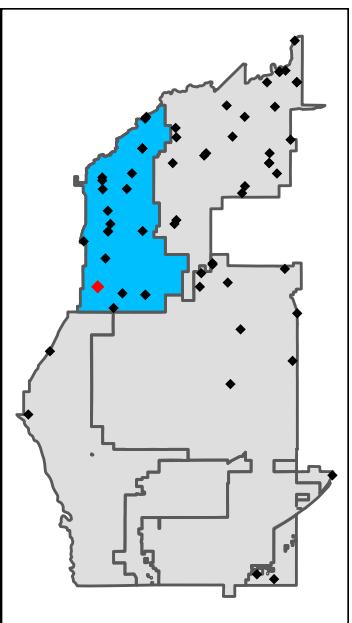
361700N1196900W001

El Rico GSA
Below E Zone C



◆ Measurements ▲ Interim Milestones (IM) ■ Measureable Objective — Minimum Threshold

361700N1198510W001

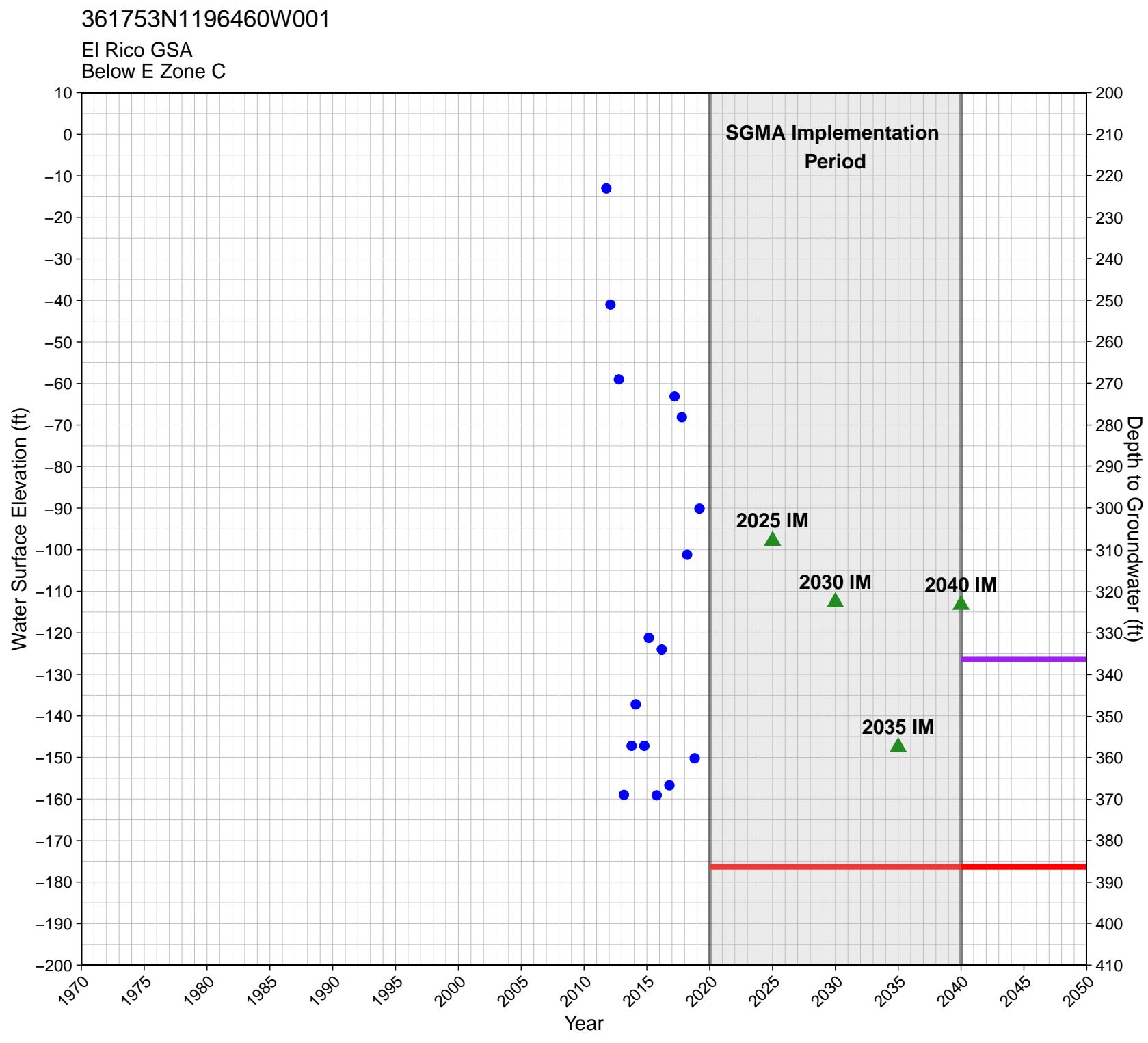
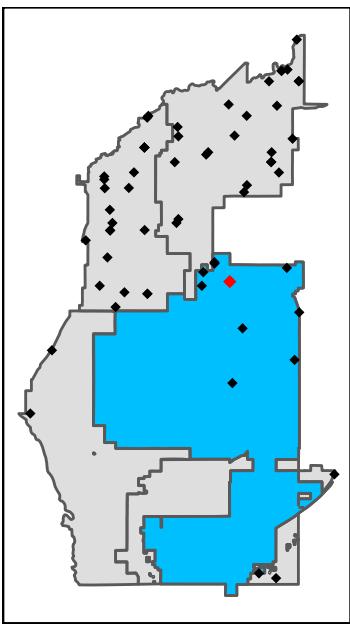
South Fork Kings GSA
Above A Zone A

025

- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

361753N1196460W001

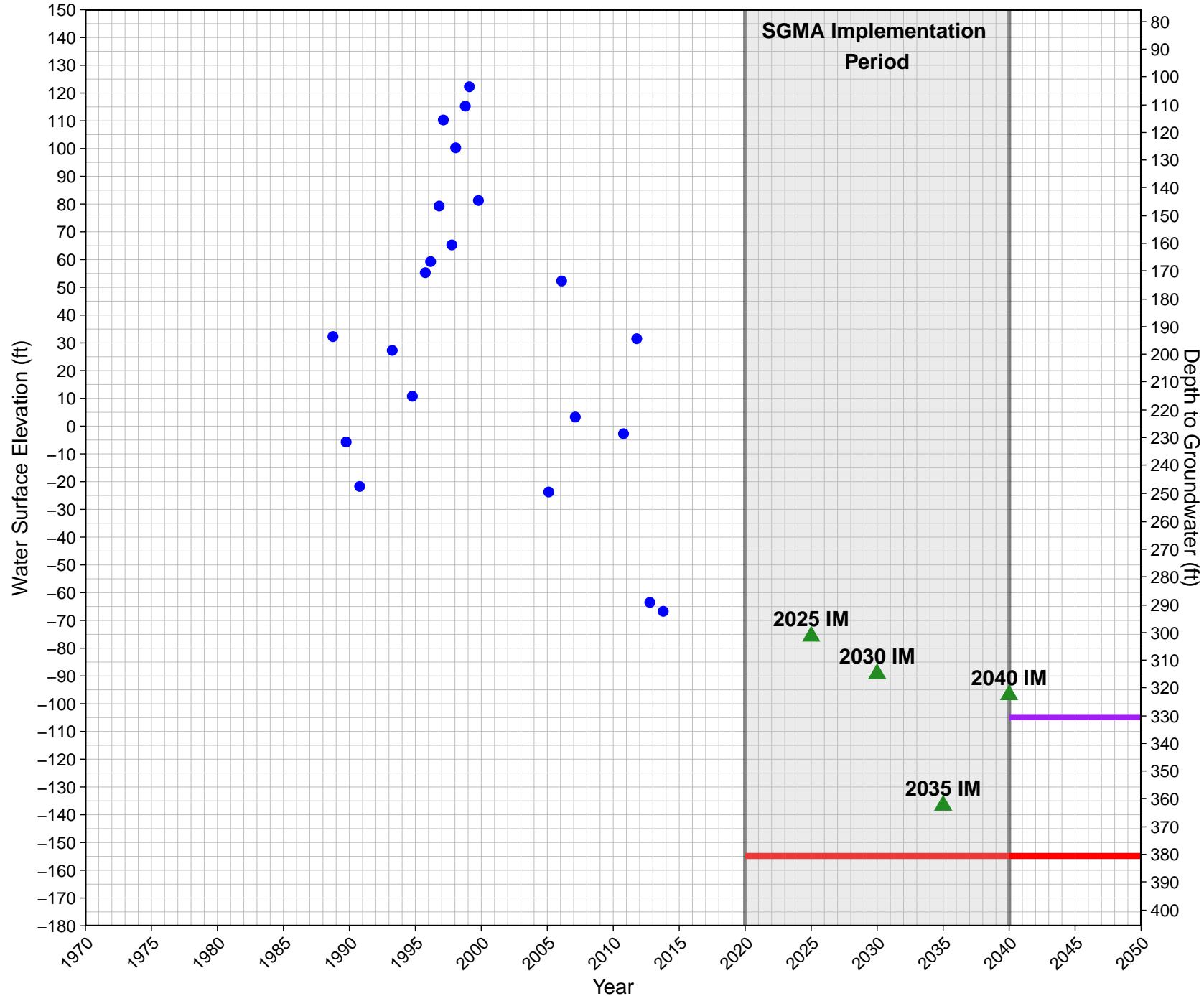
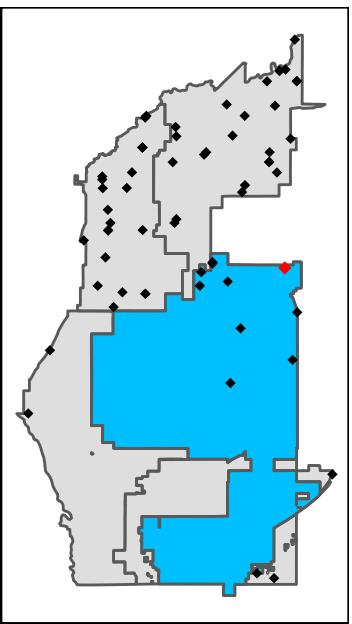
El Rico GSA
Below E Zone C



◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

361928N1195563W001

EI Rico GSA
Below E Zone C

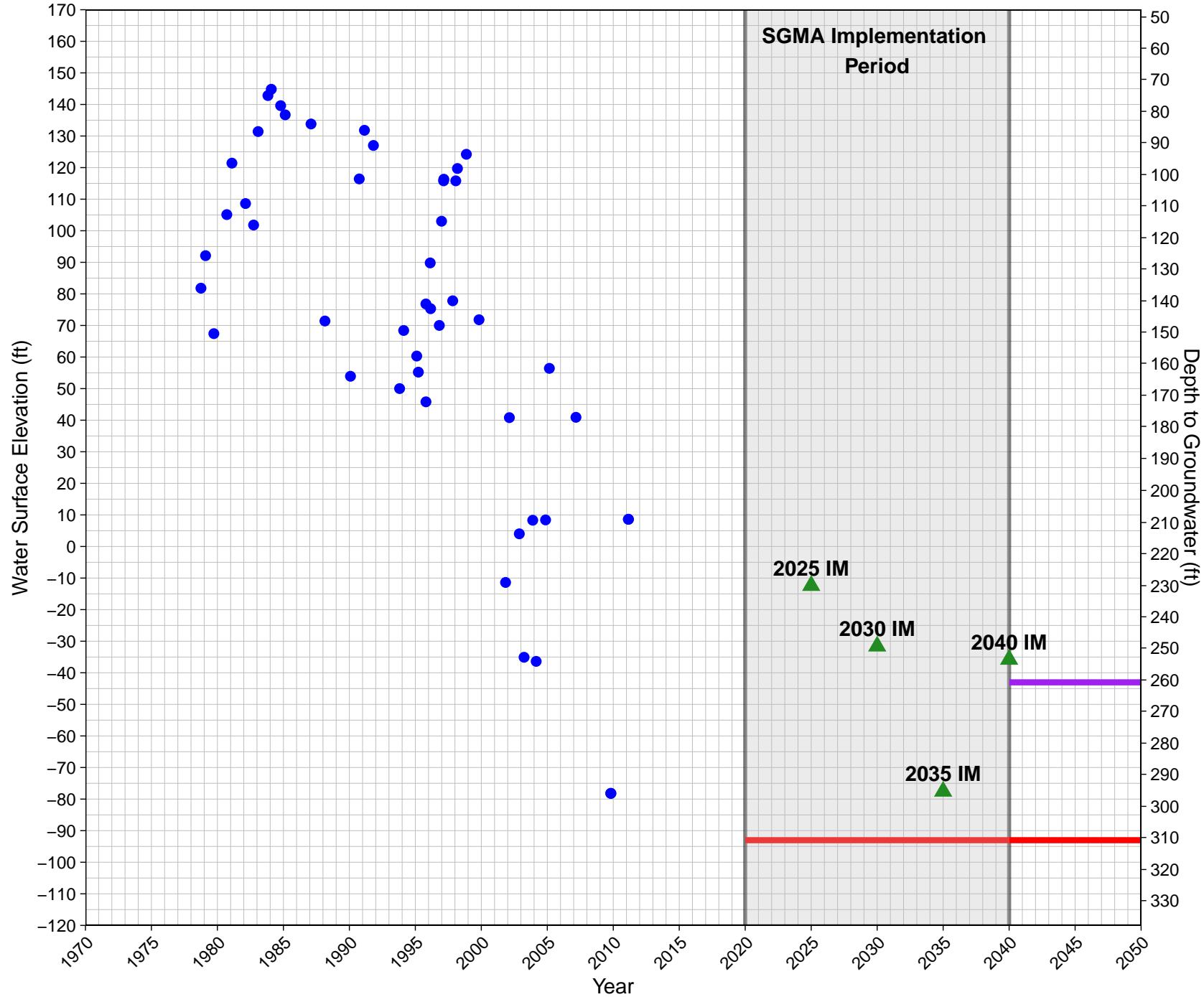
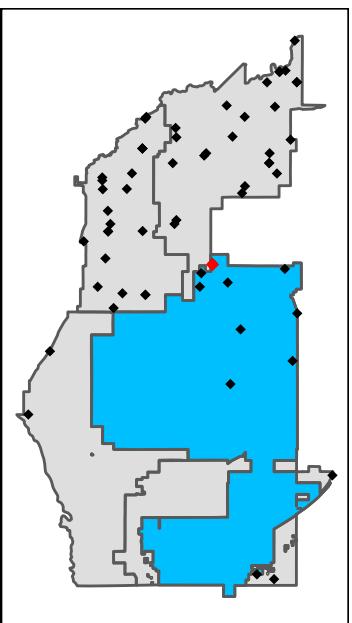


027

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

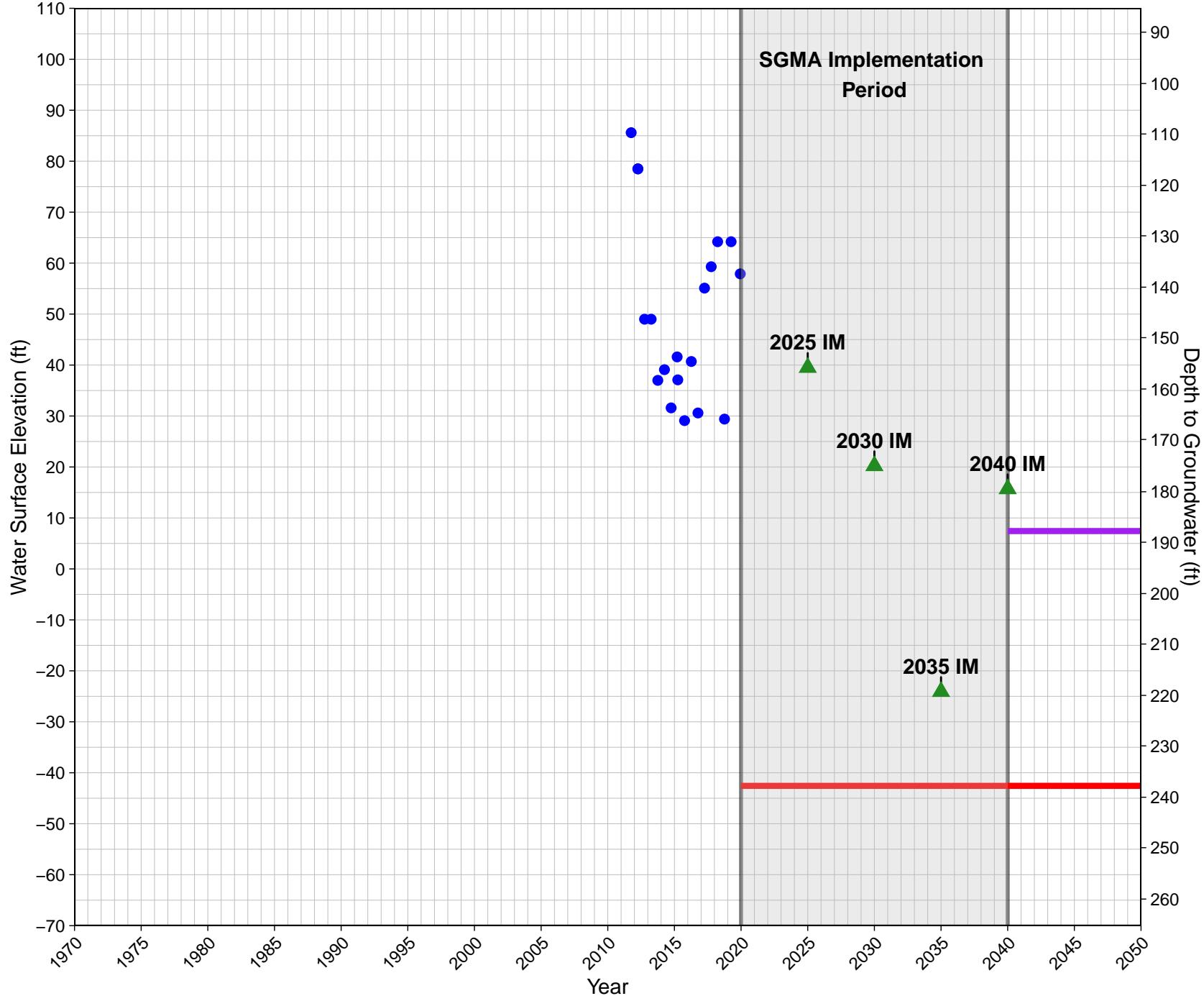
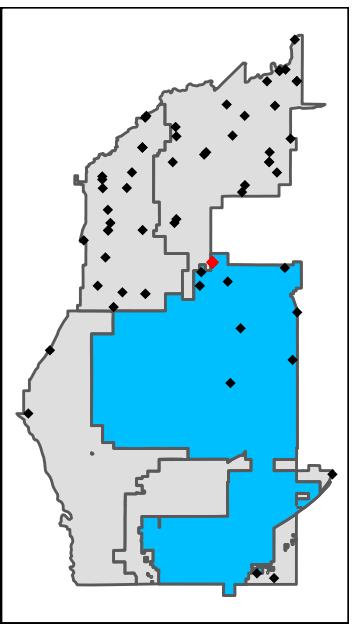
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El Rico GSA
Below E Zone C



◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

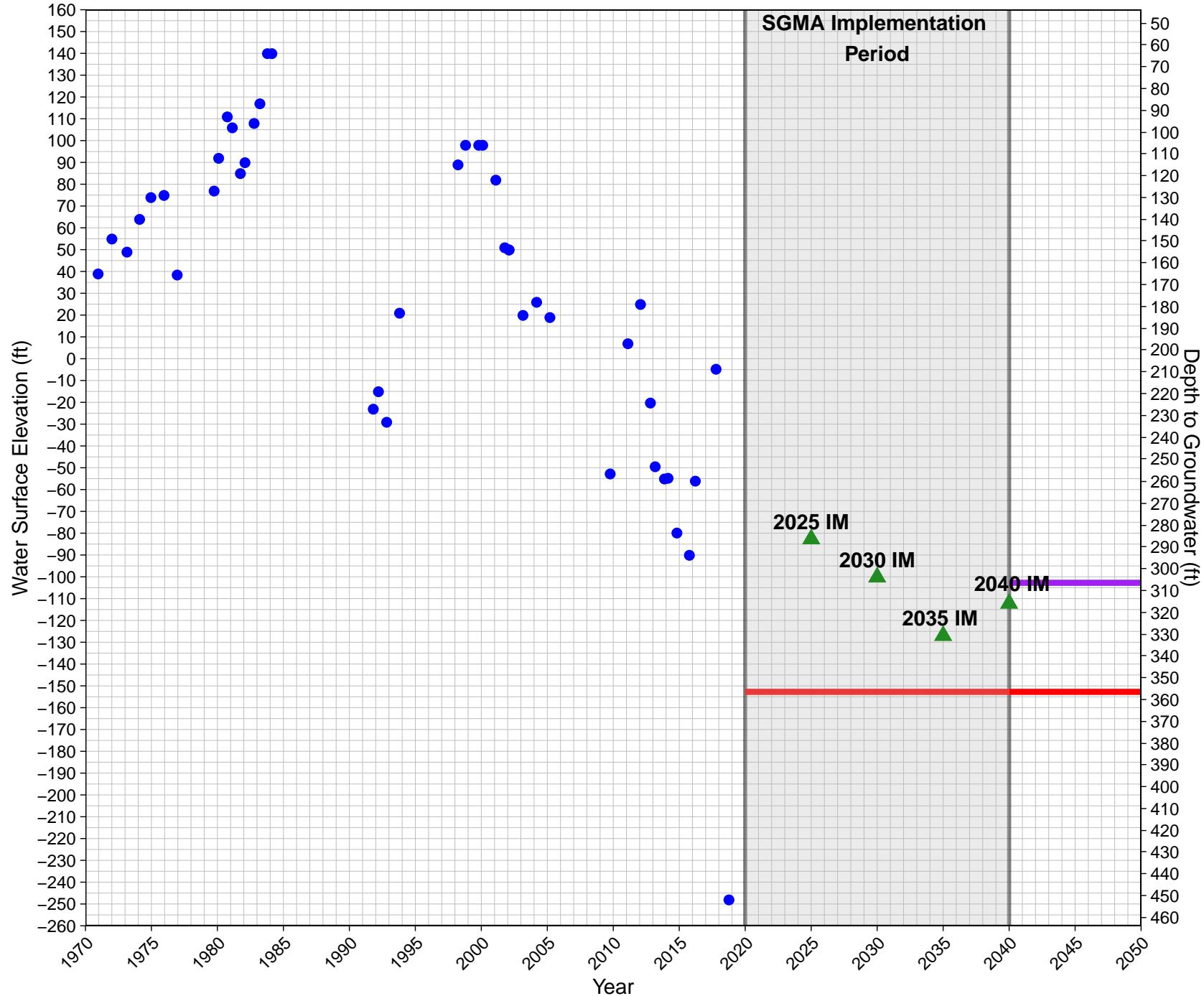
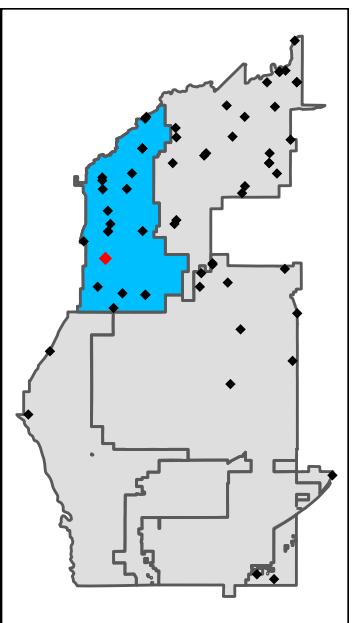
362000N1196700W001

El Rico GSA
Below E Zone C

029

- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

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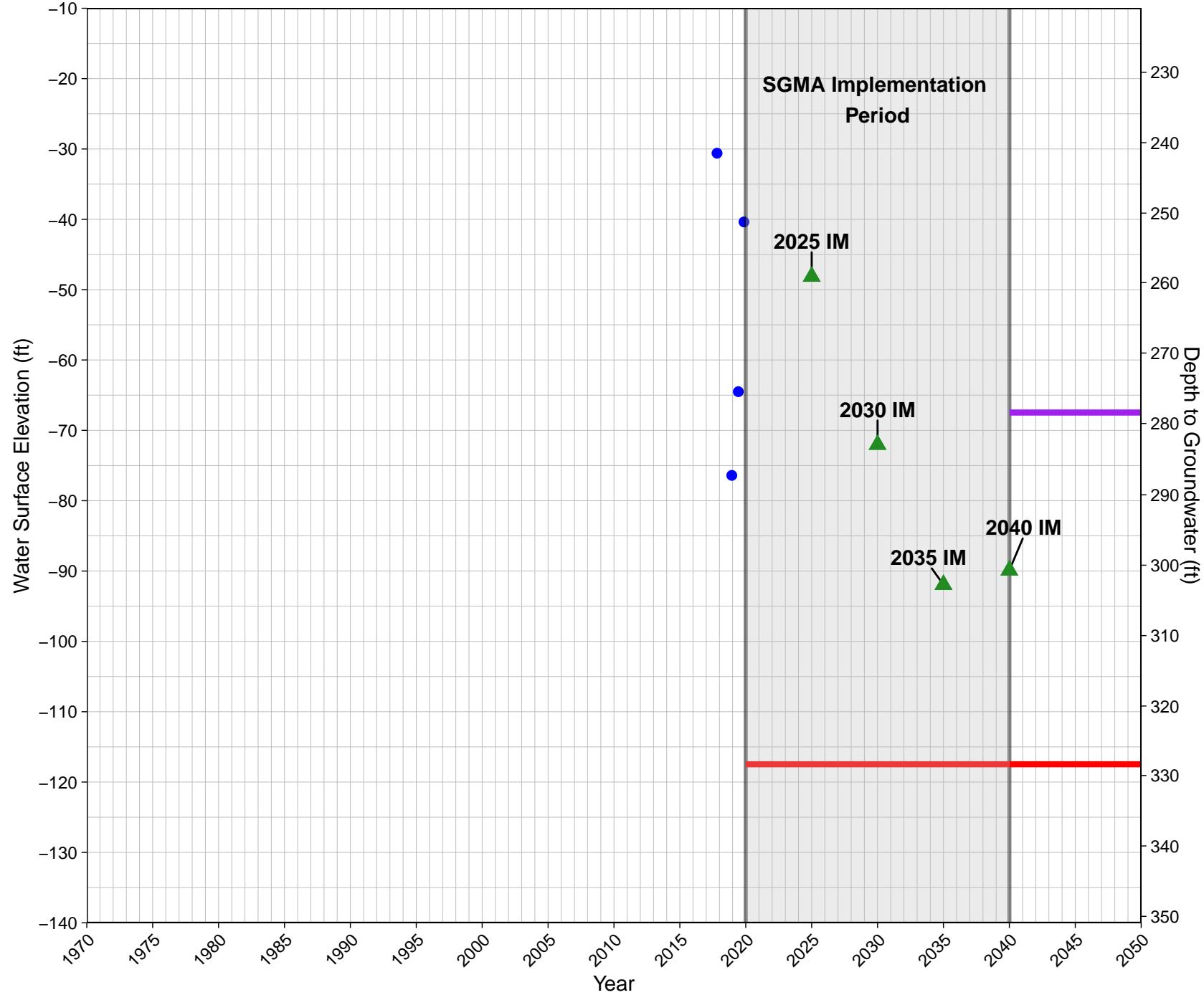
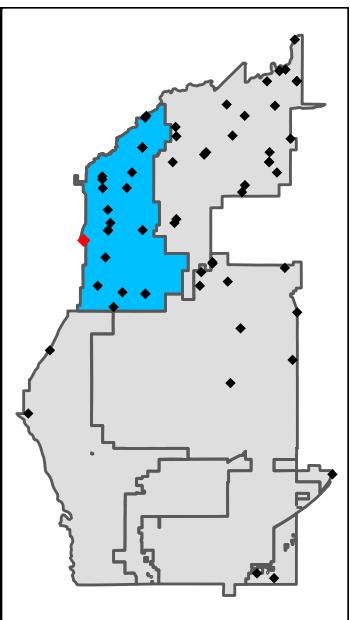
South Fork Kings GSA
Below E Zone C

030

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

362258N1198699W001

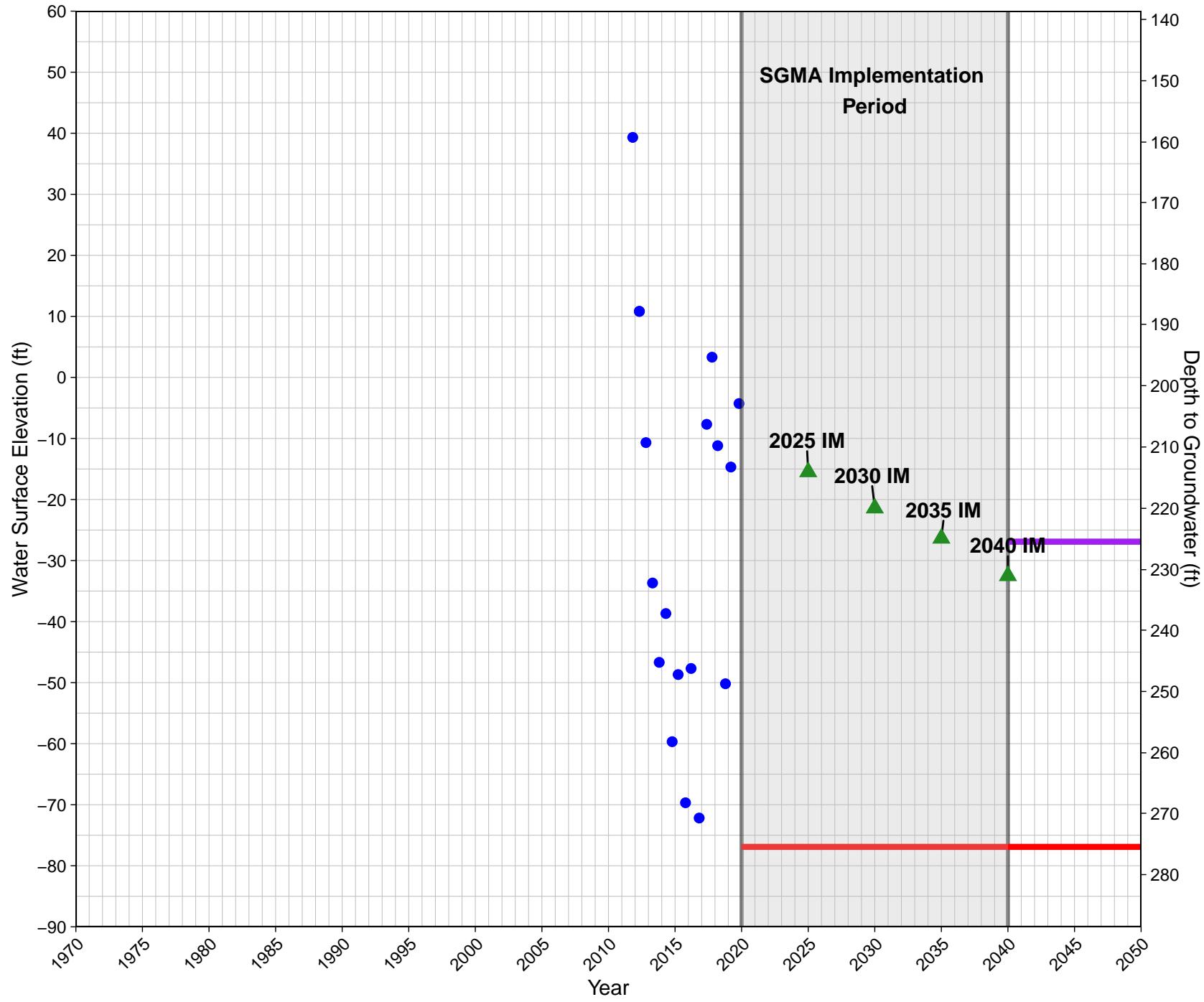
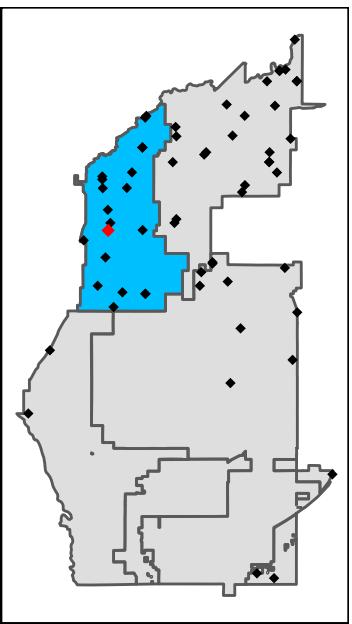
South Fork Kings GSA
Below E Zone C



031

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

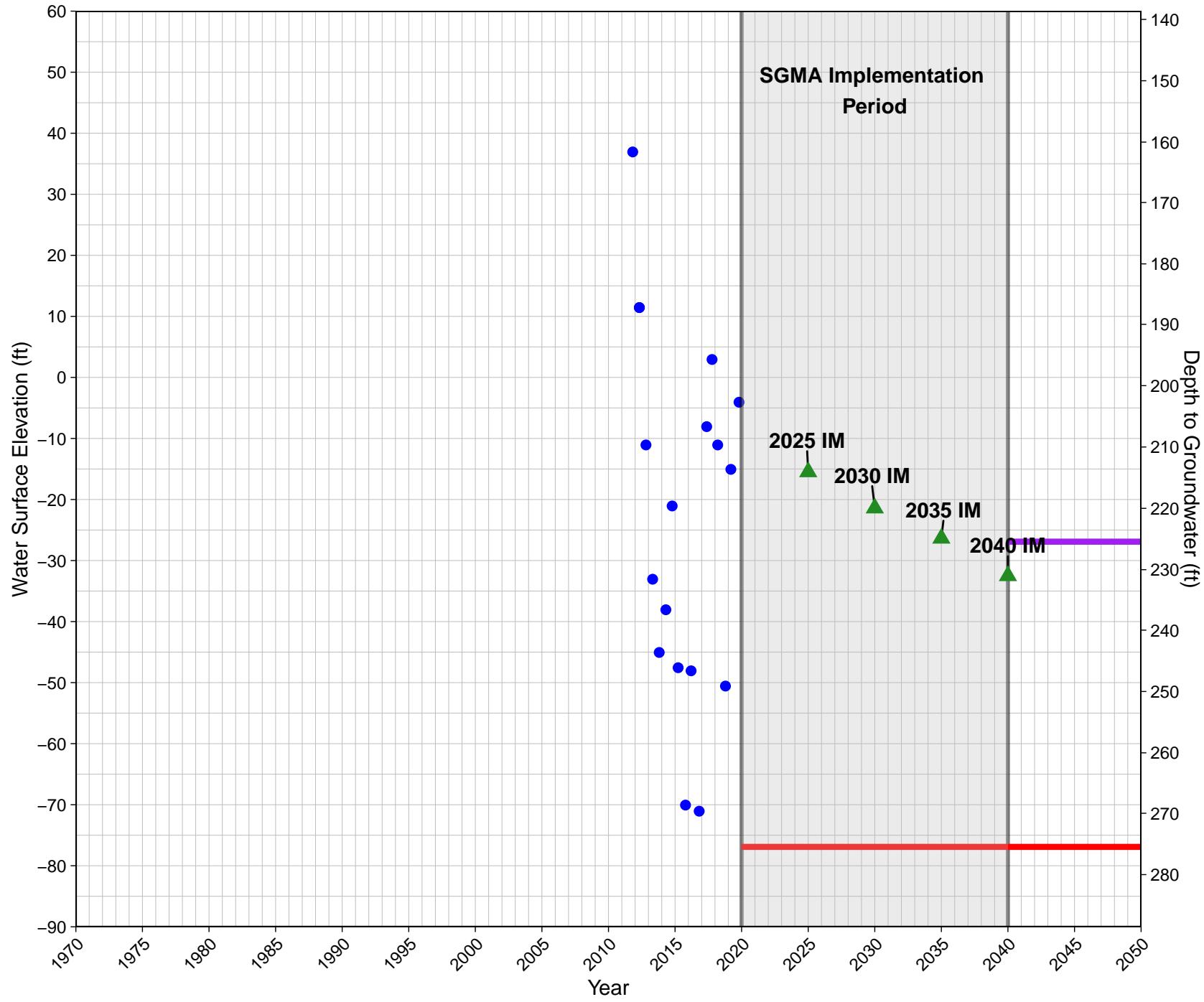
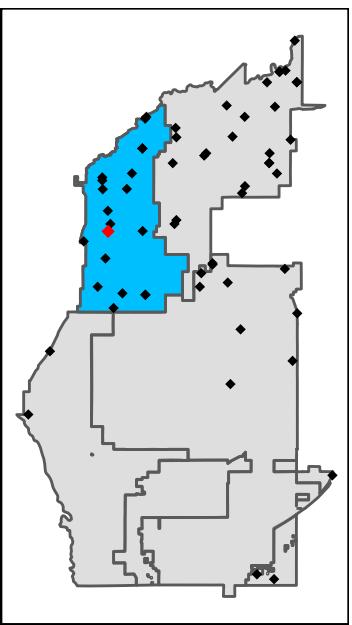
362400N1198300W001

South Fork Kings GSA
Above E Zone B

032

- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

362400N1198300W002

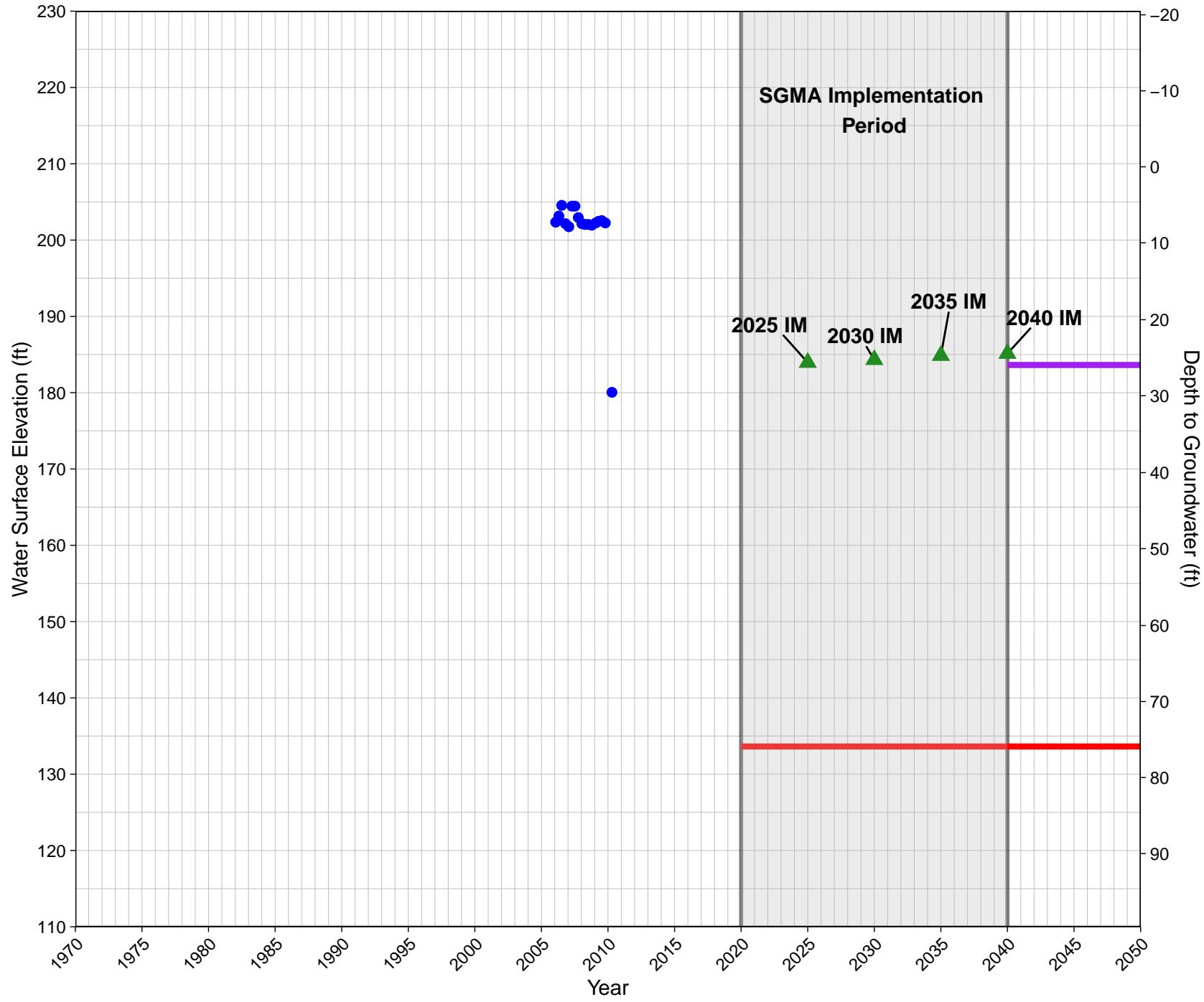
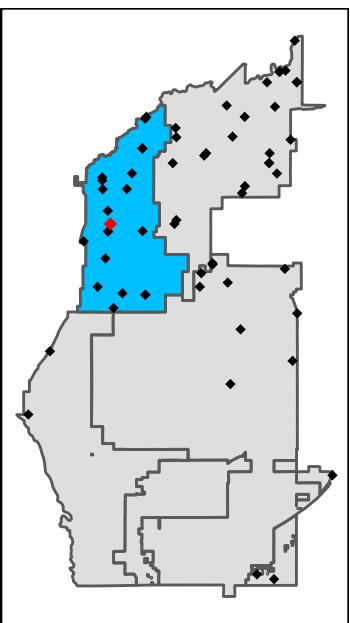
South Fork Kings GSA
Above E Zone B

033

- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

362500N1198310W001

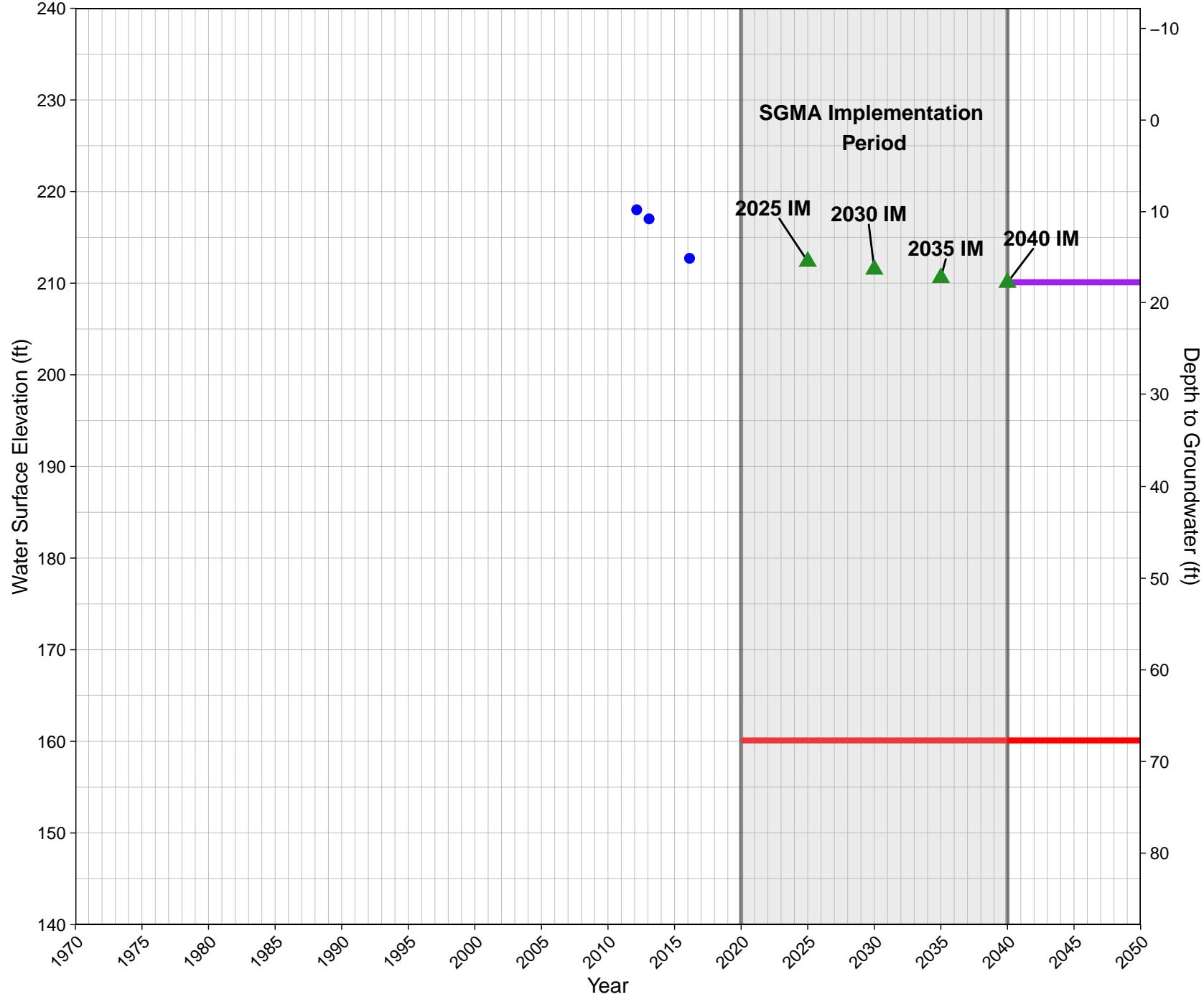
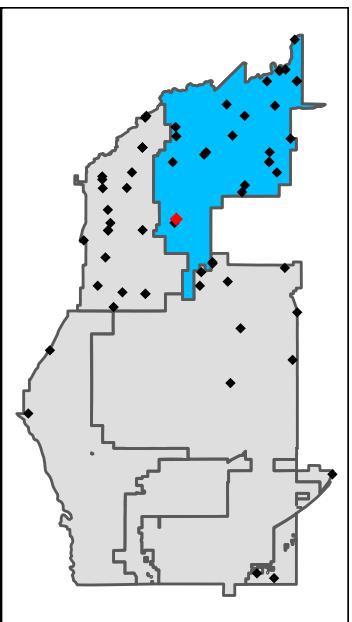
South Fork Kings GSA
Above A Zone A



034
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

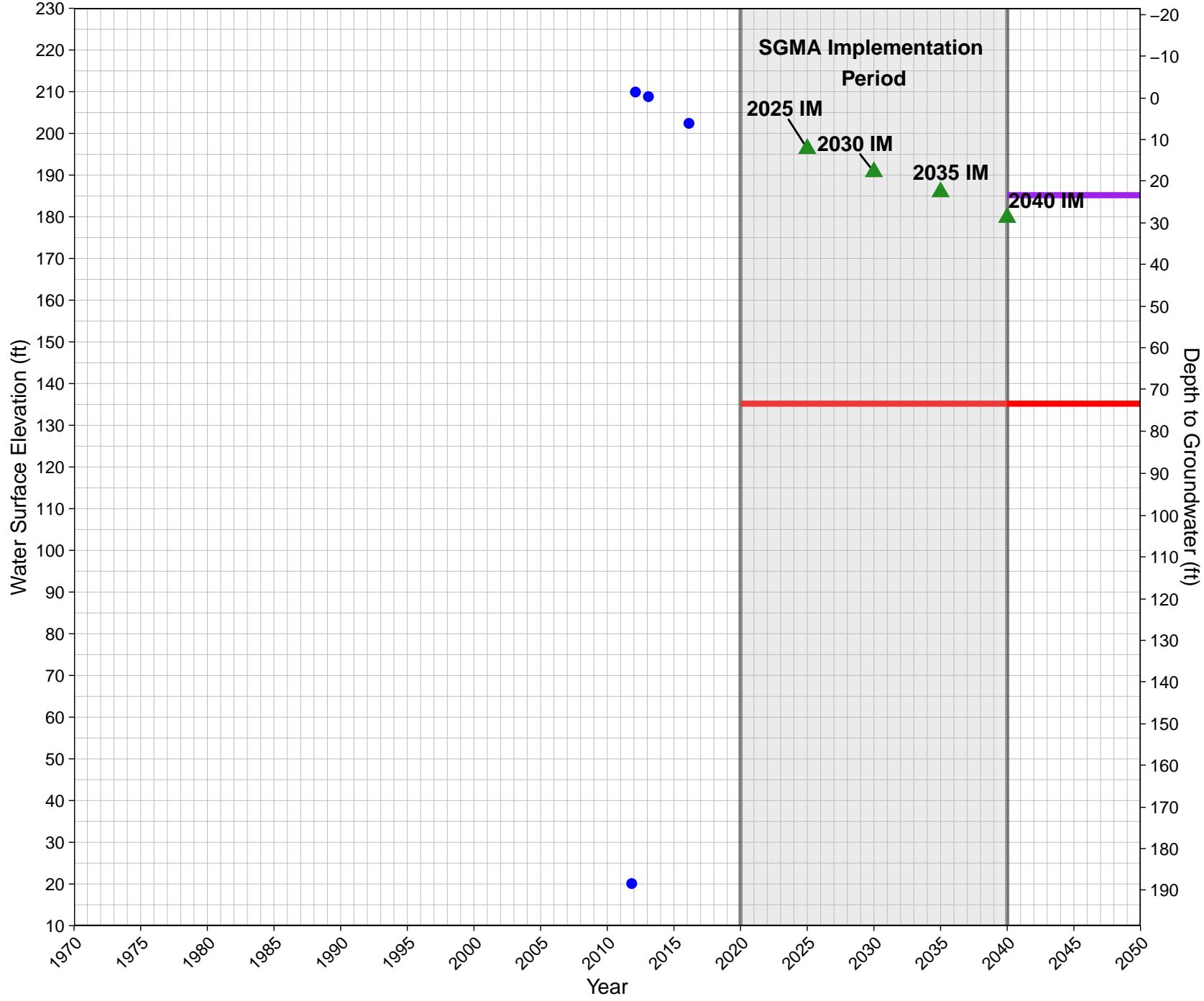
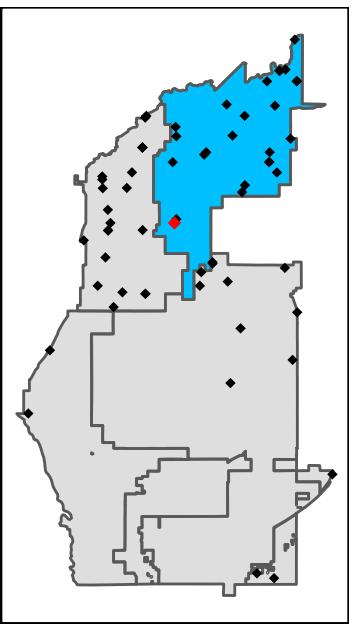
362549N1197266W001

Mid-Kings River GSA
Above A Zone A



035
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

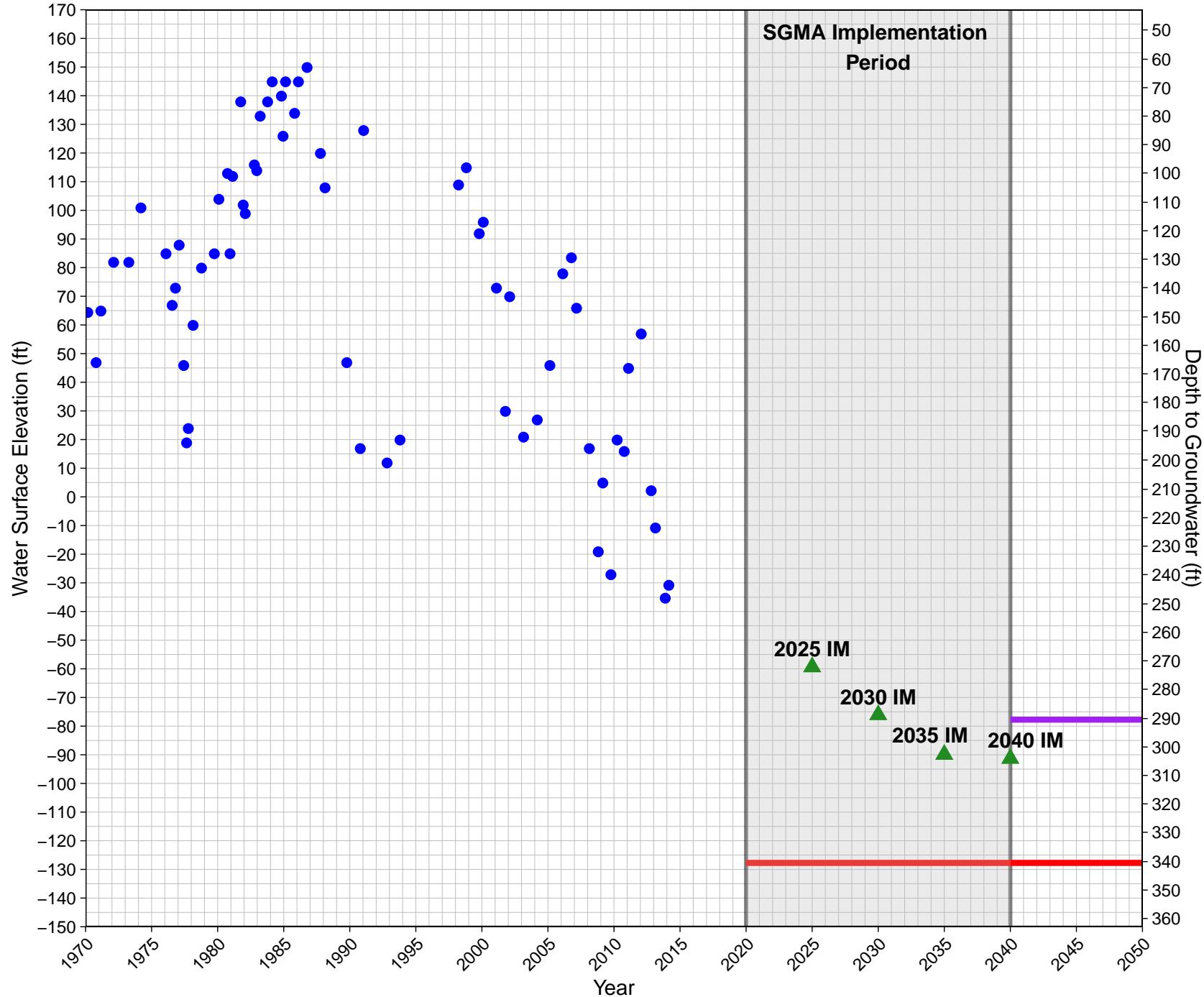
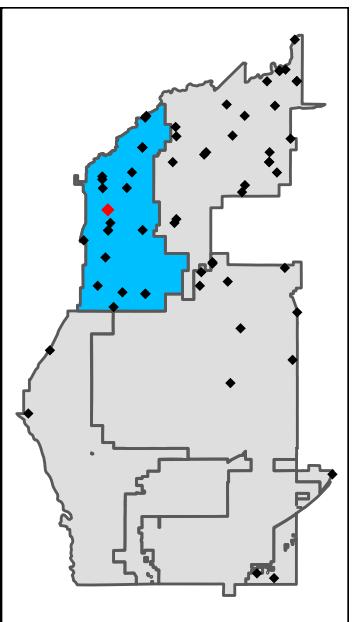
362618N1197496W001

Mid-Kings River GSA
Above E Zone B

036

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

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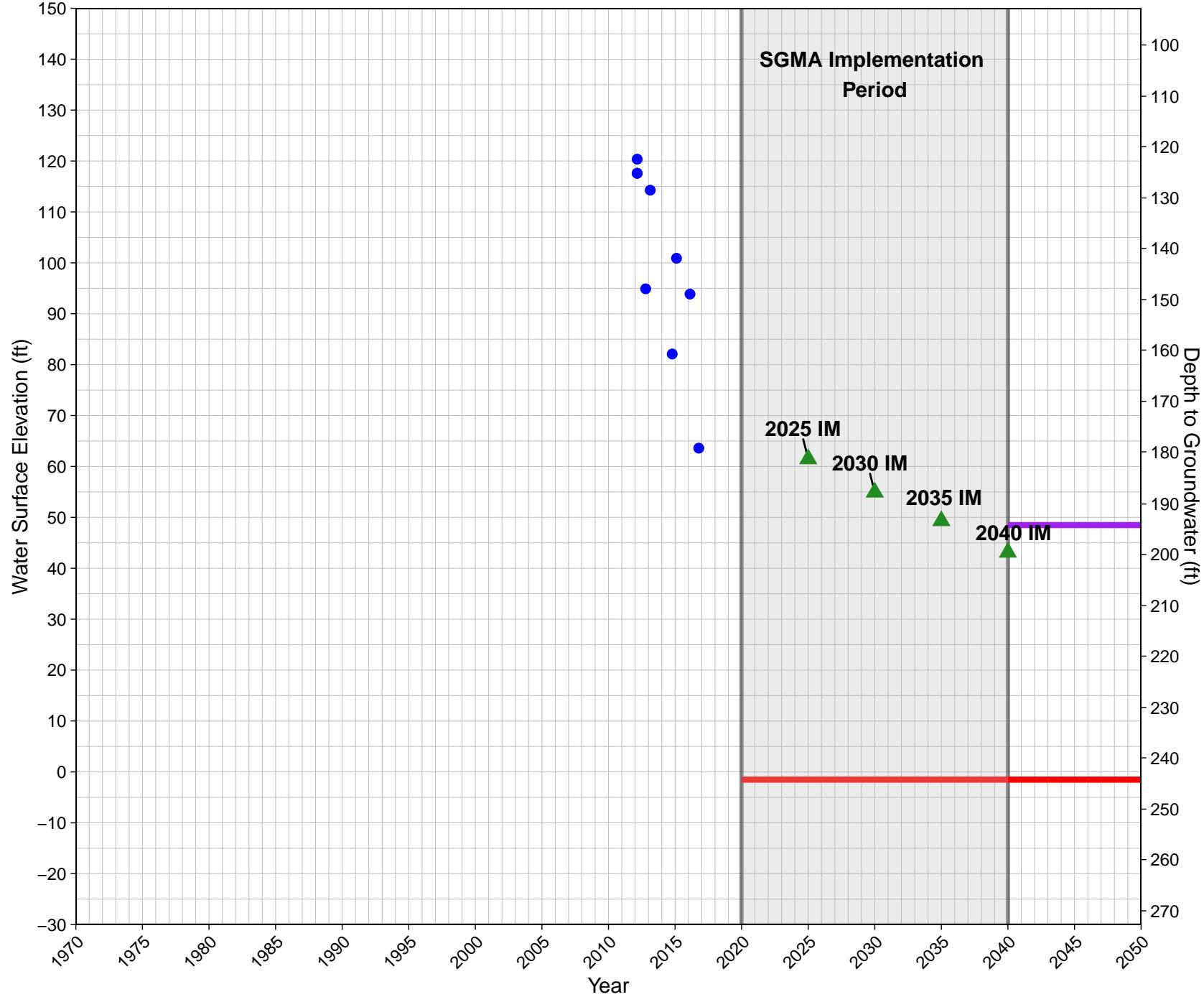
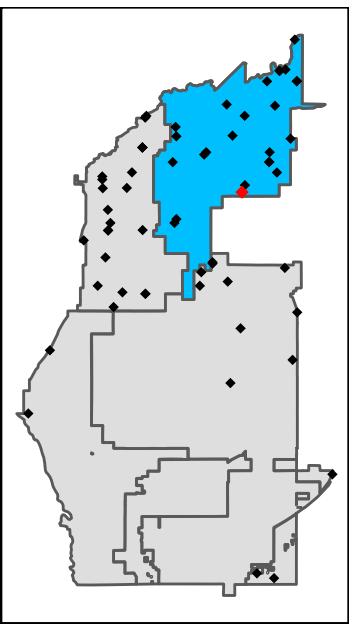
South Fork Kings GSA
Above E Zone B

037

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

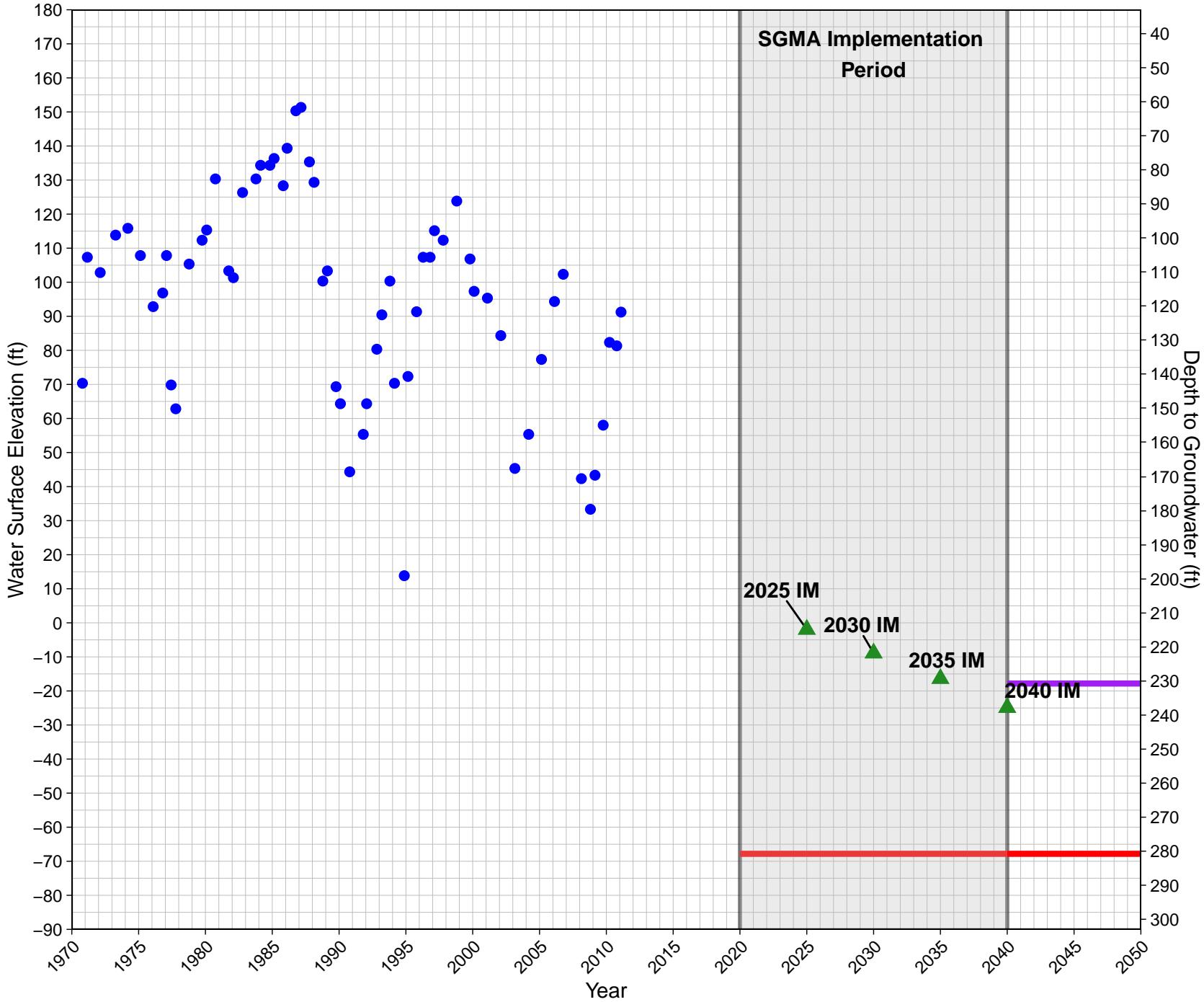
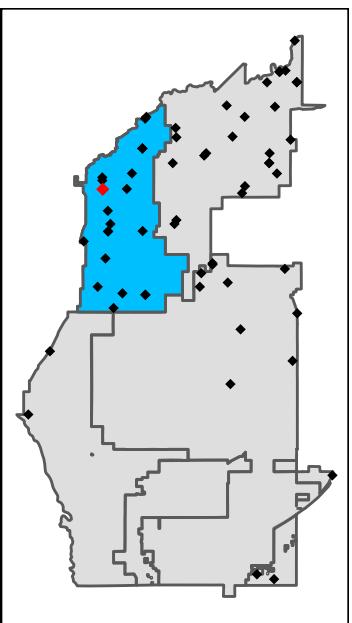
362892N1196235W001

Mid-Kings River GSA
Above E Zone B



038
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

362942N1198432W001

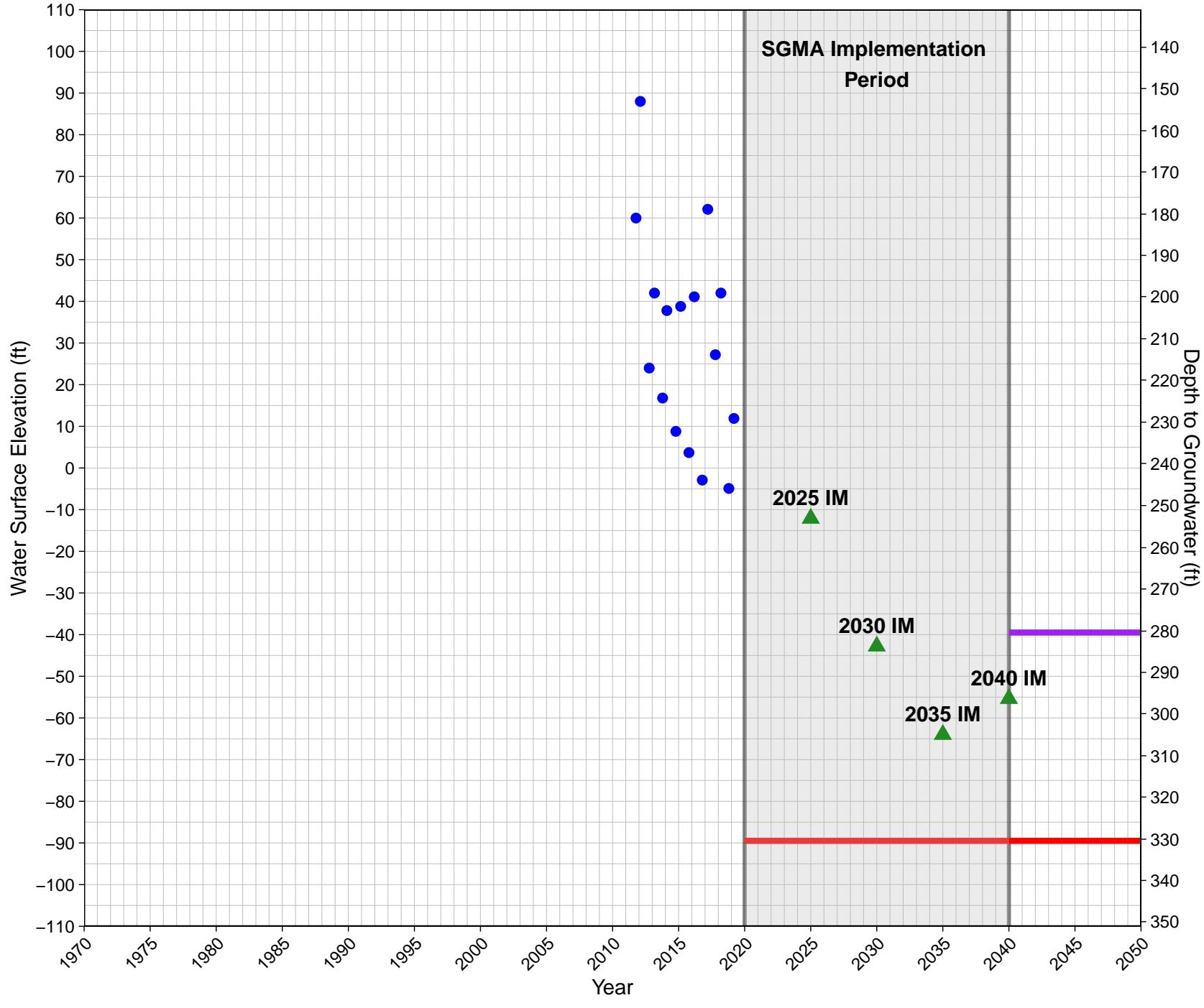
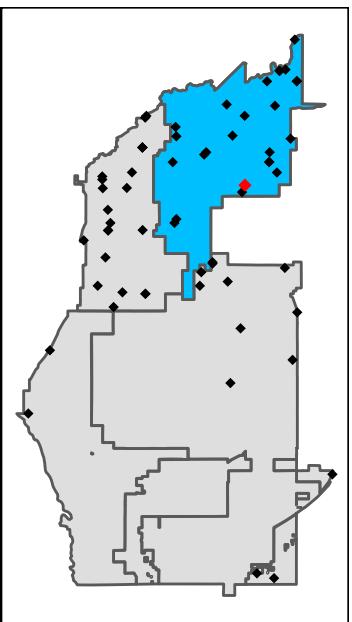
South Fork Kings GSA
Above E Zone B

039

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

362981N1196189W001

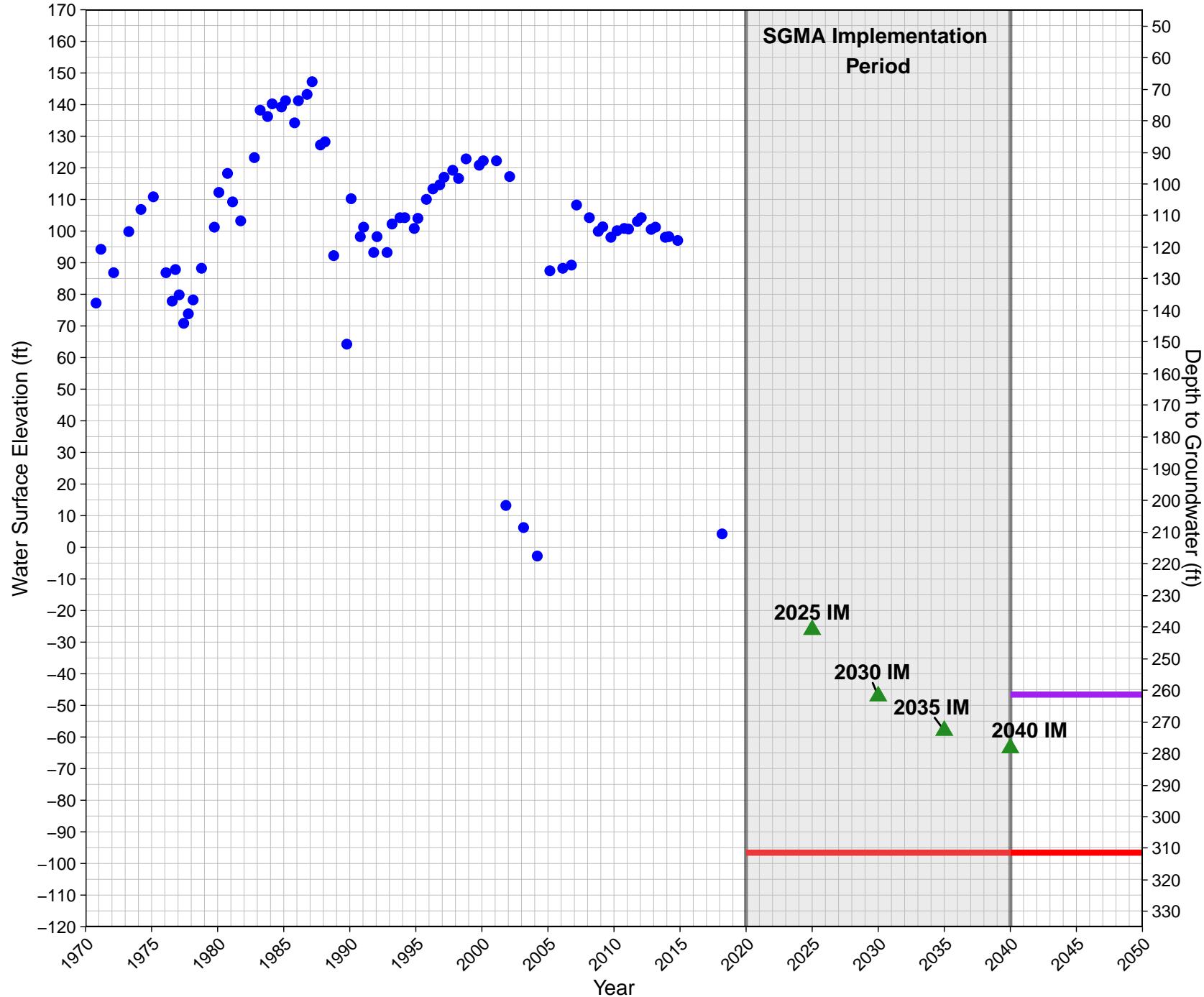
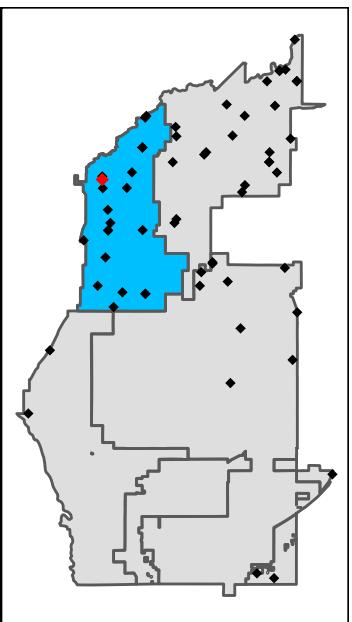
Mid-Kings River GSA
Below E Zone C



040

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

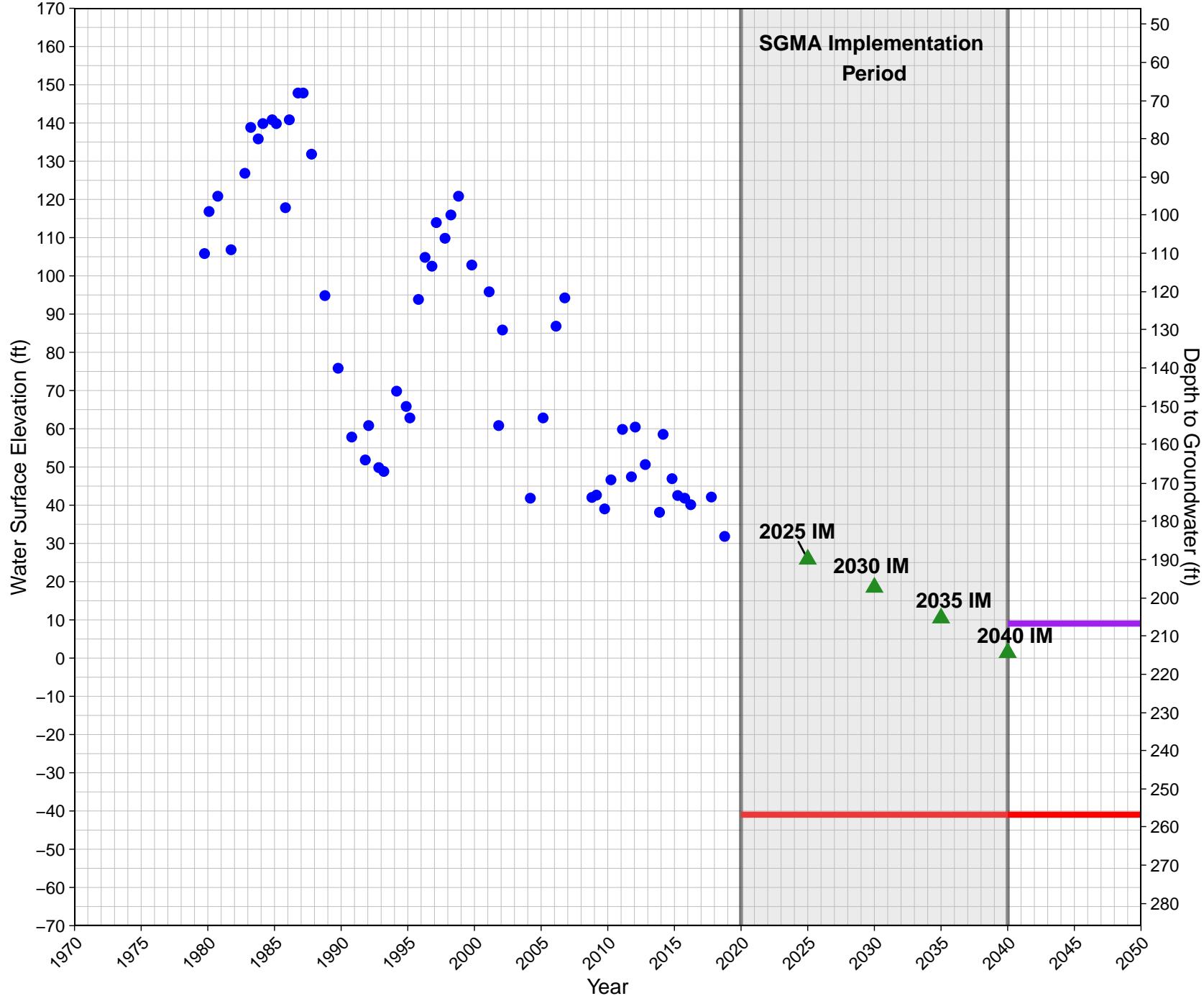
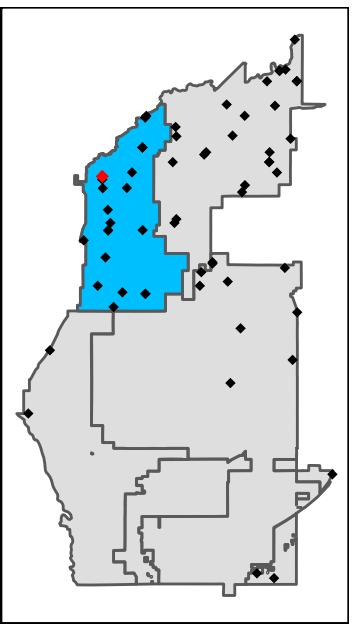
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South Fork Kings GSA
Above E Zone B

041

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

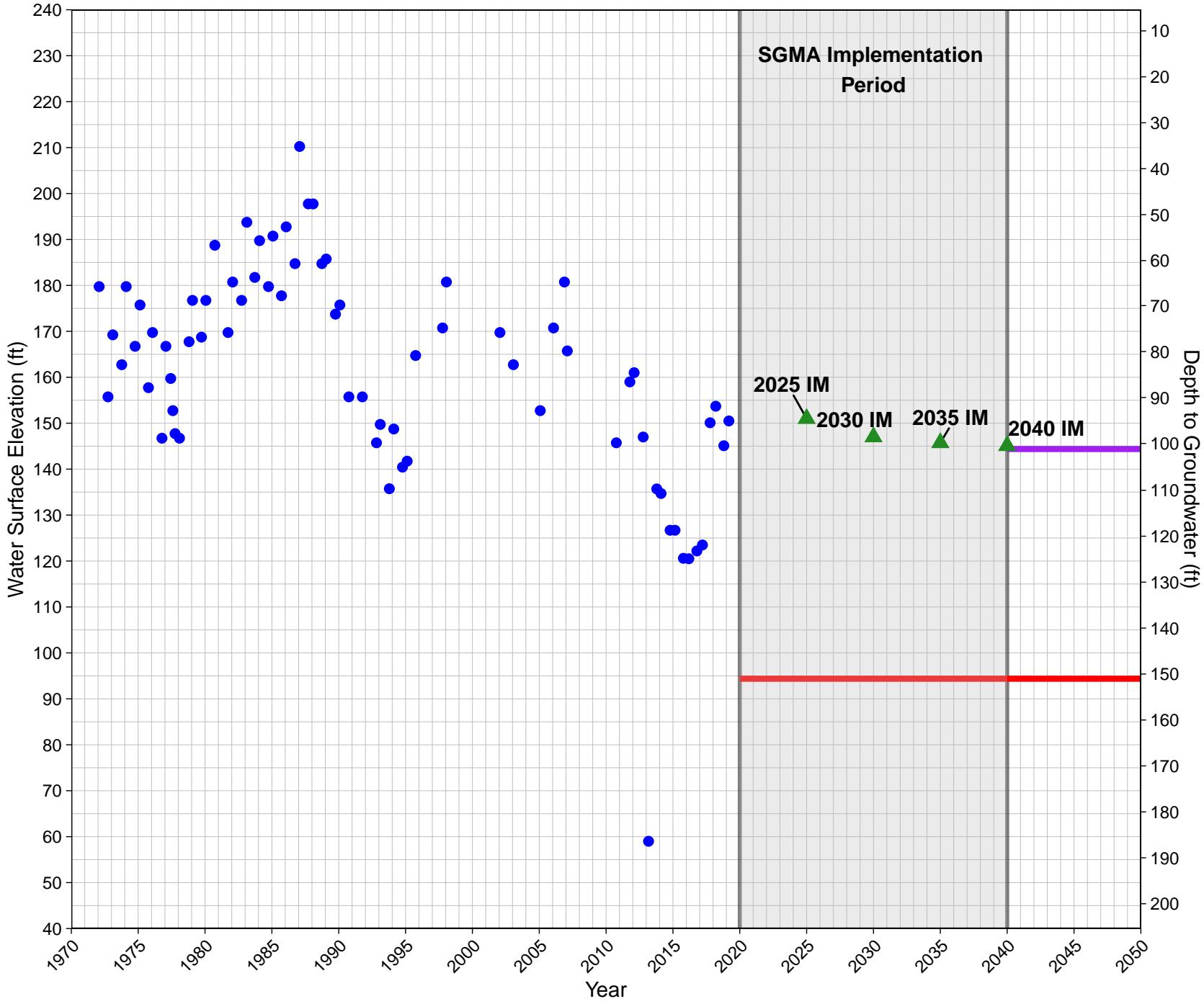
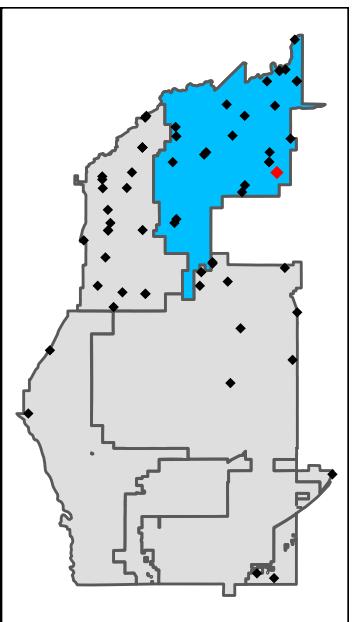
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South Fork Kings GSA
Above E Zone B

042

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

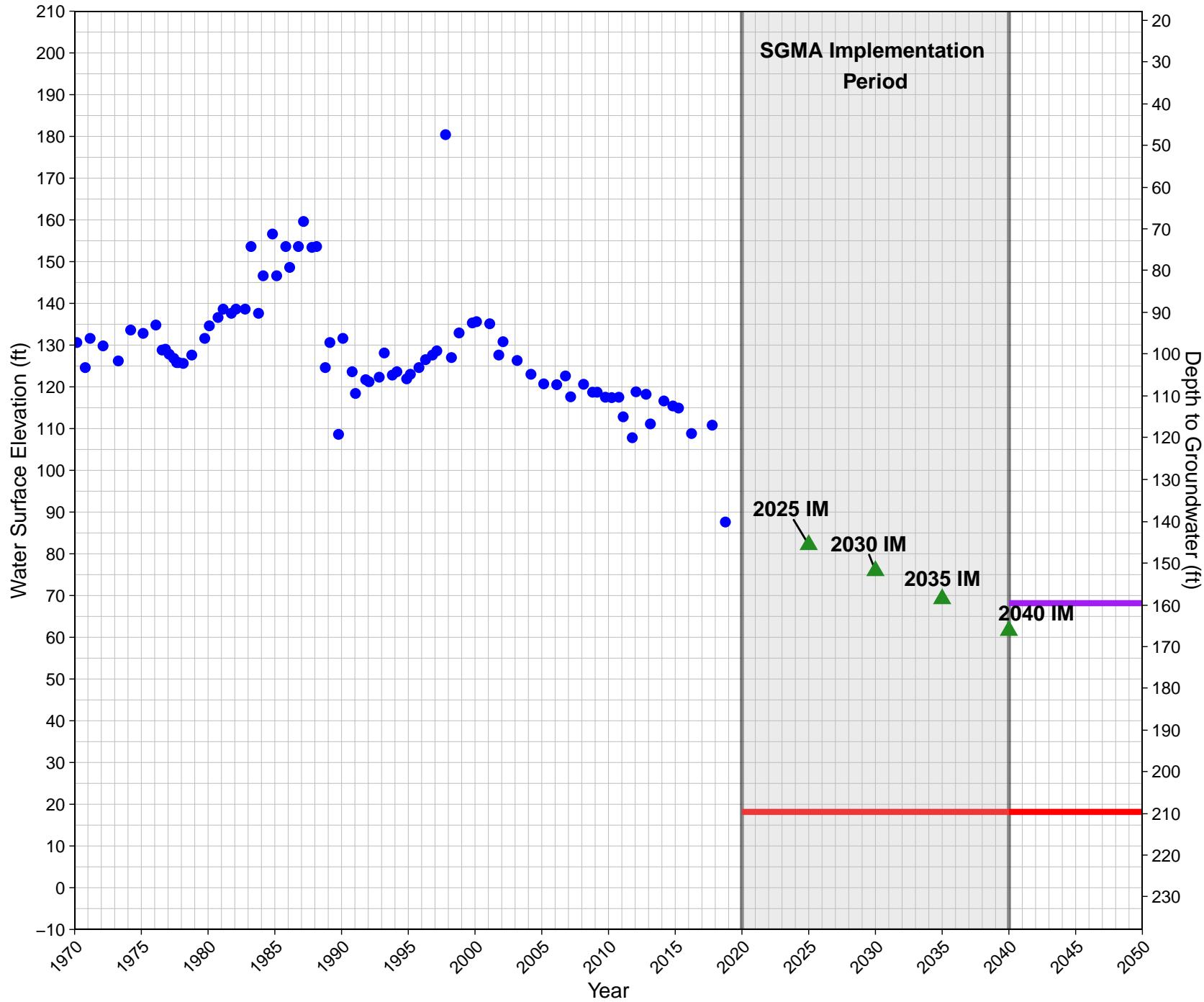
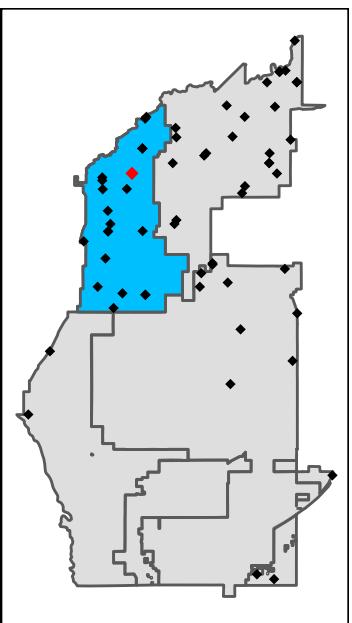
363142N1195685W001

Mid-Kings River GSA
Above E Zone B

043

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

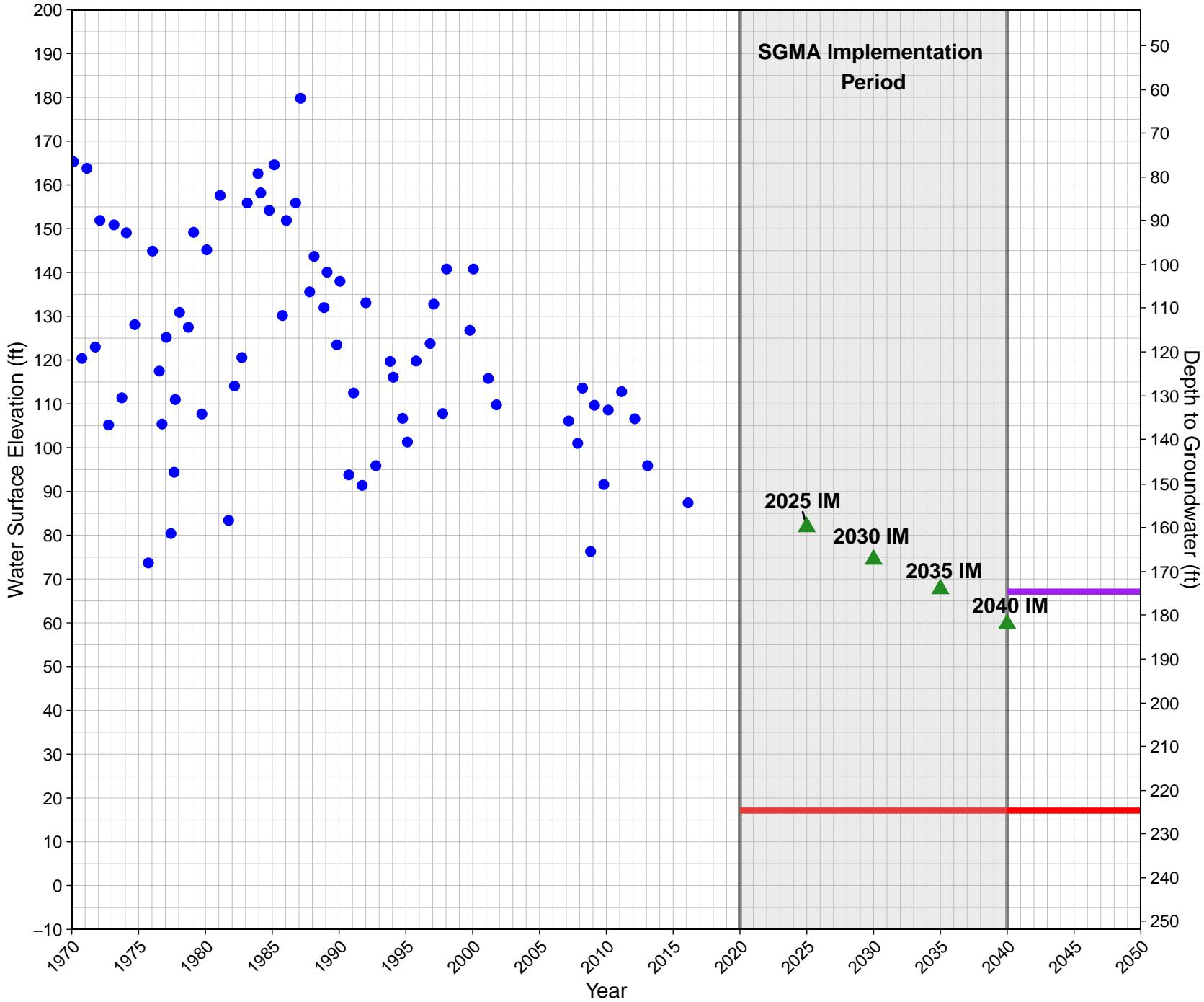
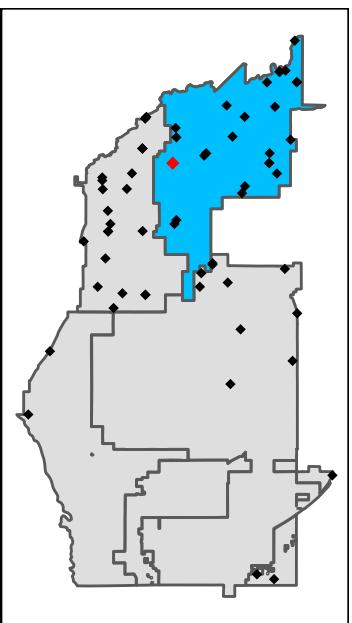
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South Fork Kings GSA
Above E Zone B

044

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

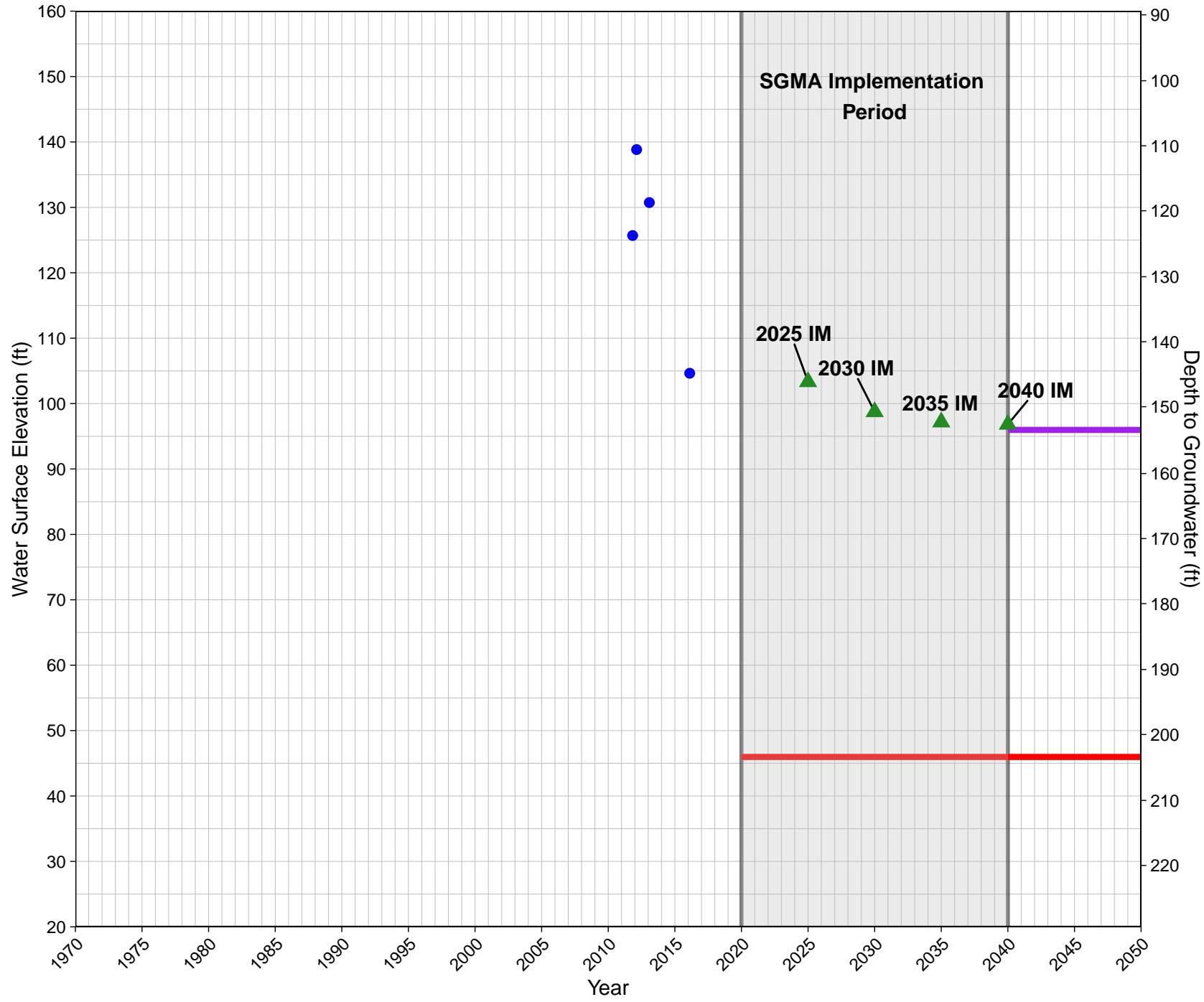
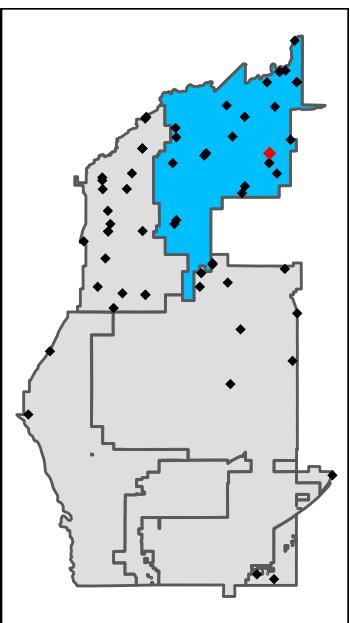
363274N1197327W001

Mid-Kings River GSA
Above E Zone B

045

◆ Measurements	▲ Interim Milestones (IM)	— Measureable Objective	— Minimum Threshold
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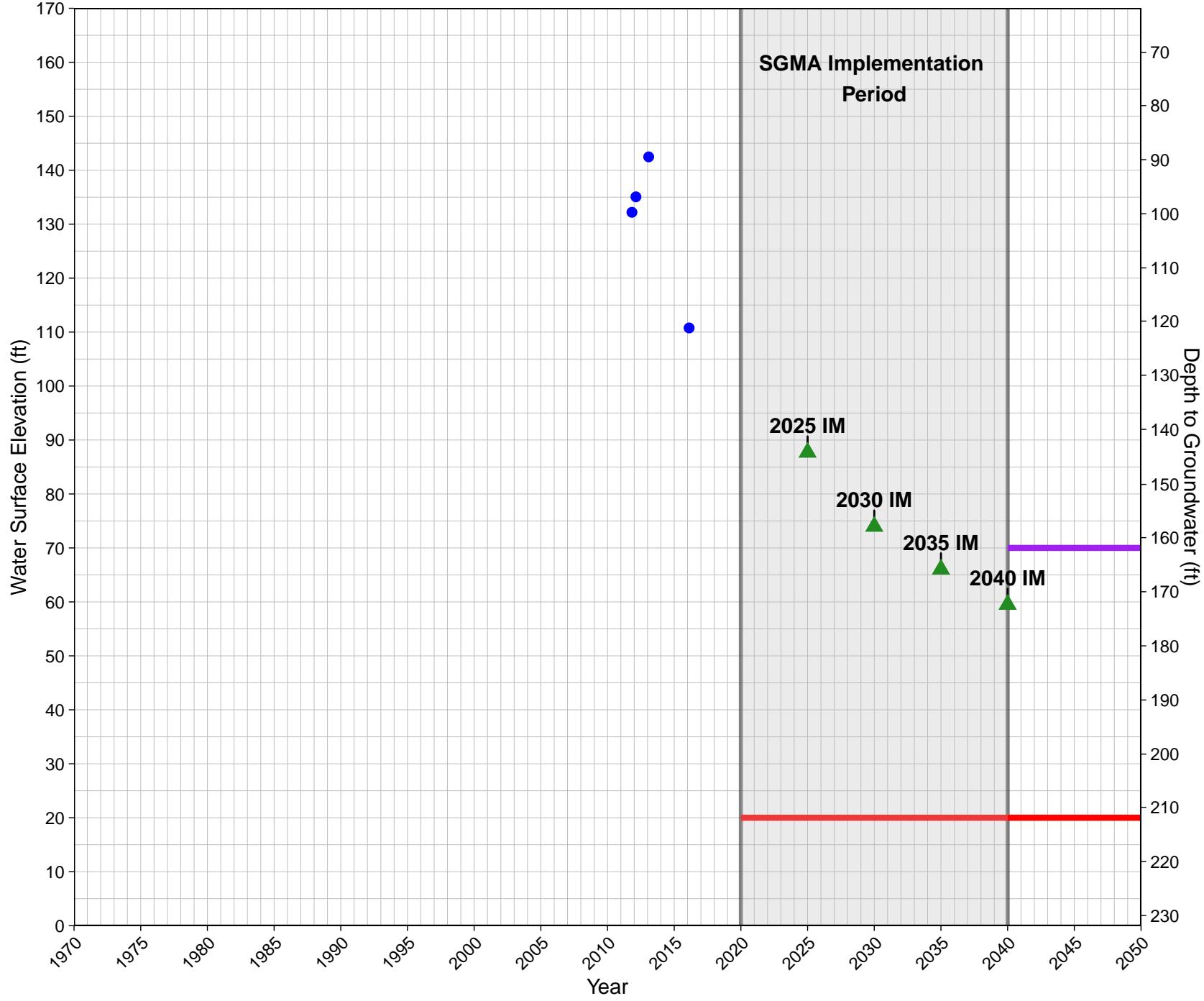
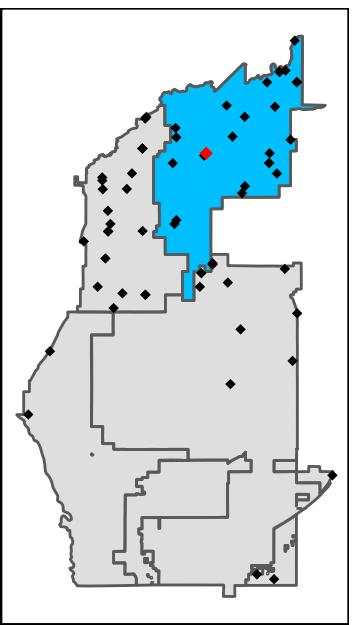
363393N1195832W001

Mid-Kings River GSA
Above E Zone B

046
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

363419N1196799W001

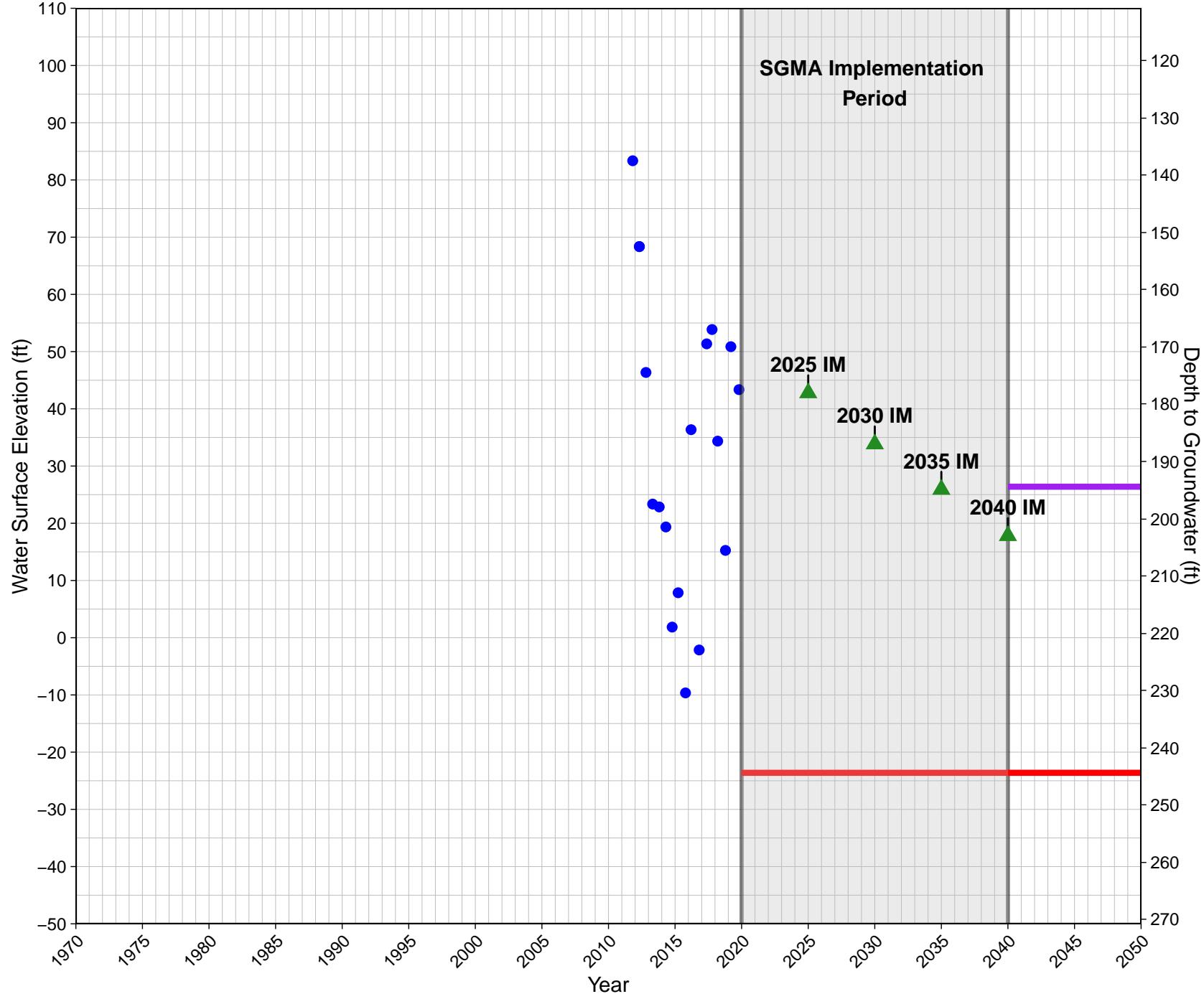
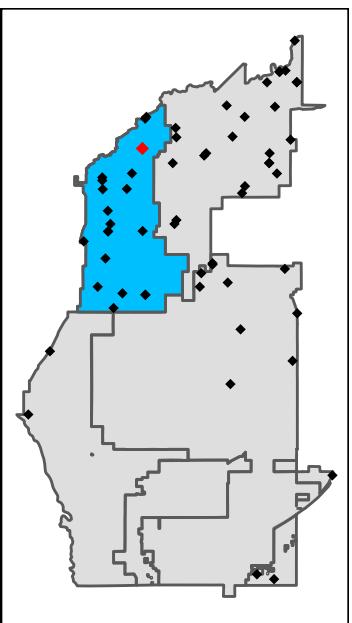
Mid-Kings River GSA
Above E Zone B



047

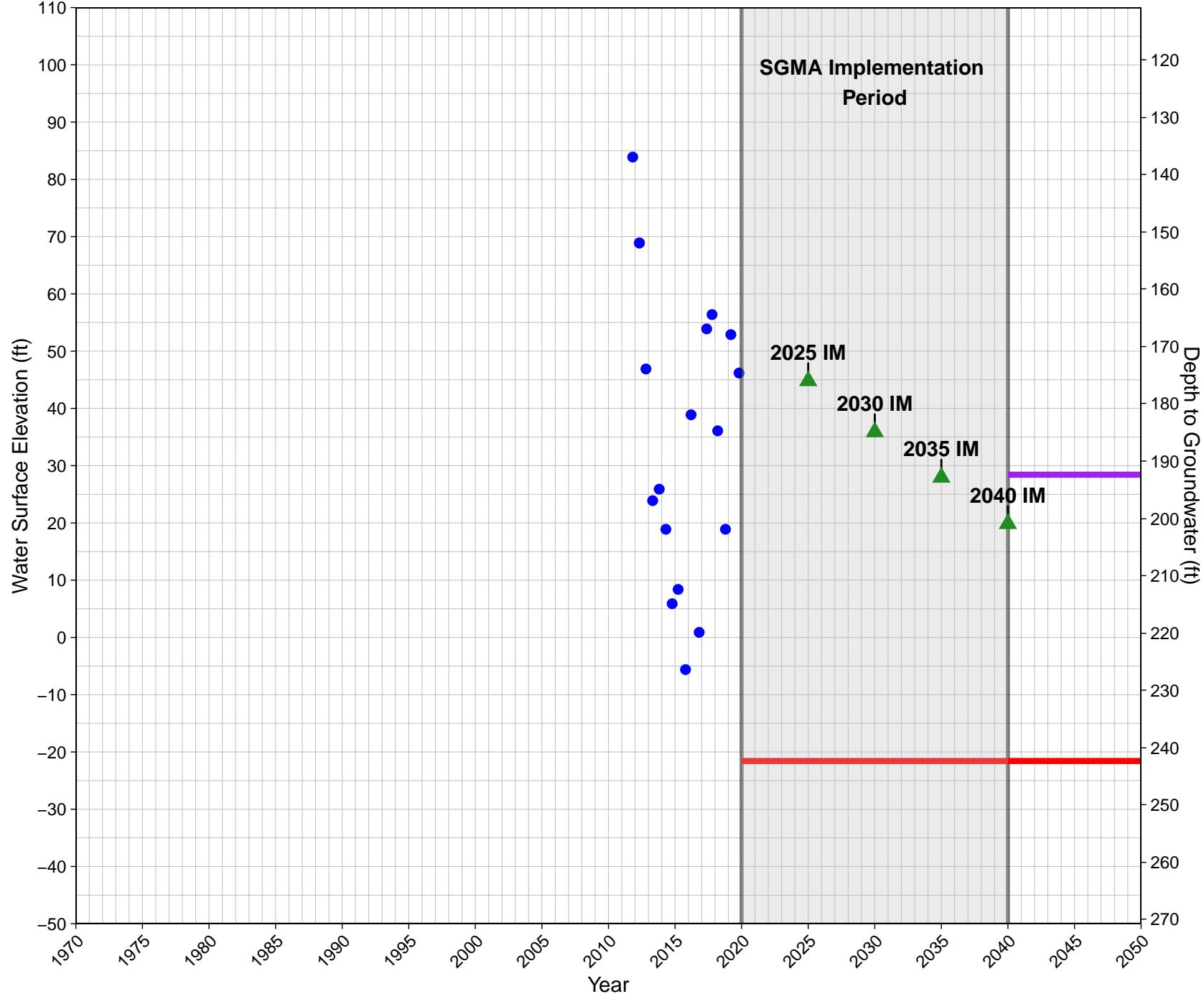
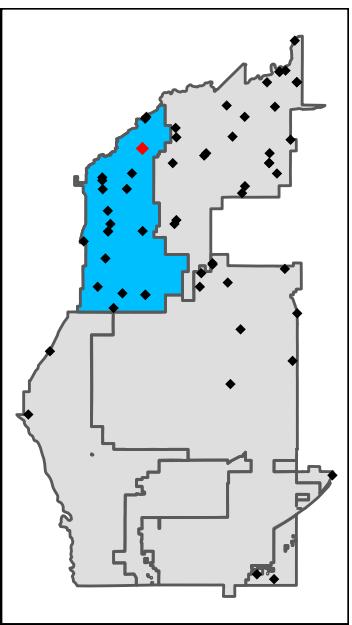
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

363500N1197800W001

South Fork Kings GSA
Above E Zone B

048
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

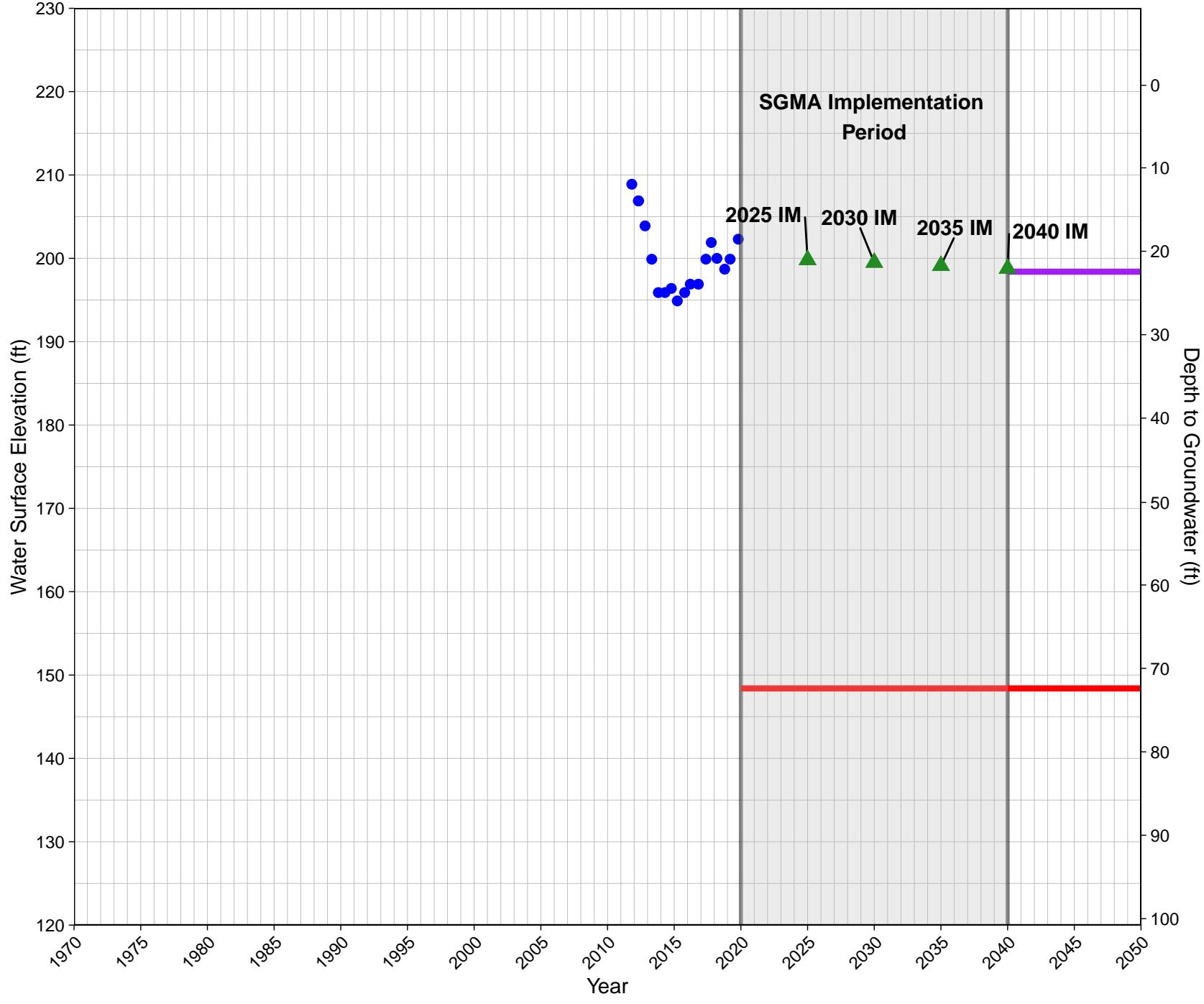
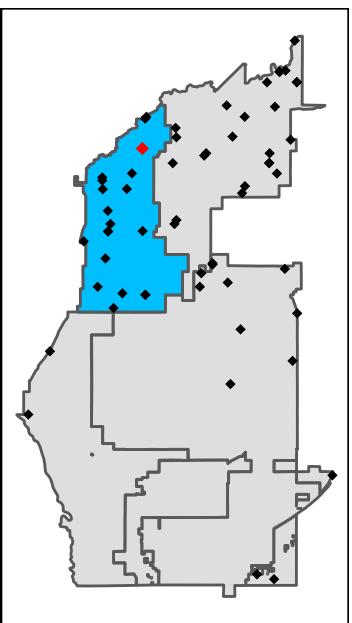
363500N1197800W002

South Fork Kings GSA
Above E Zone B

049
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

363500N1197800W003

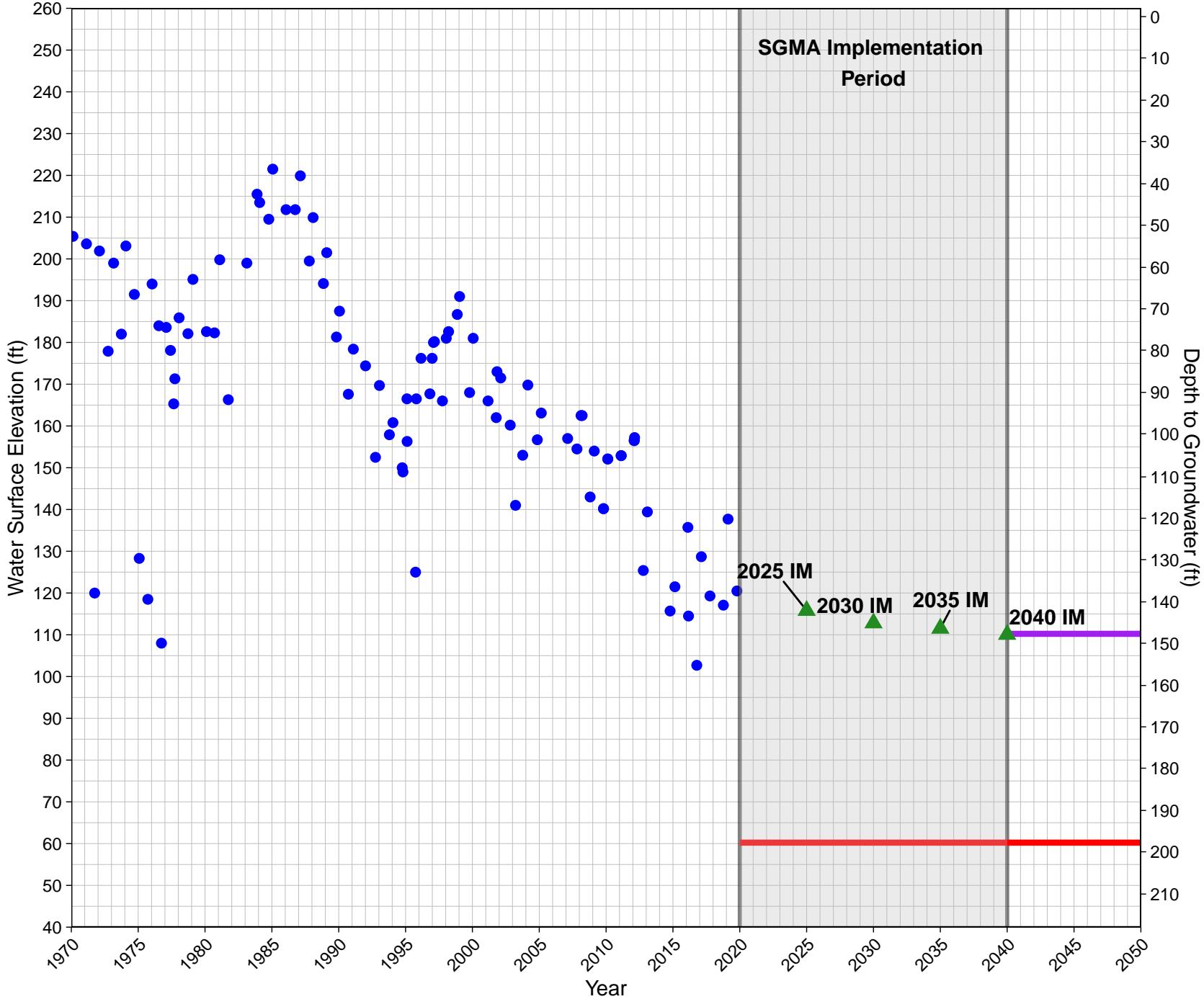
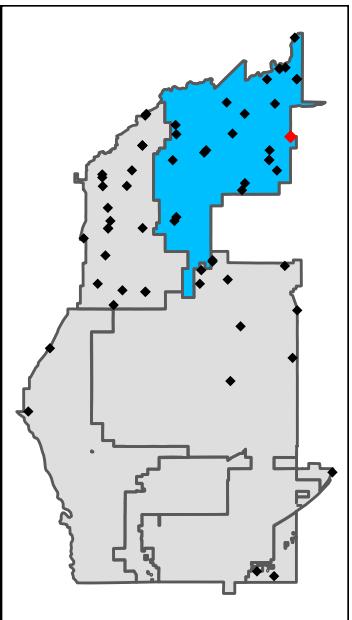
South Fork Kings GSA
Above E Zone B



050

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

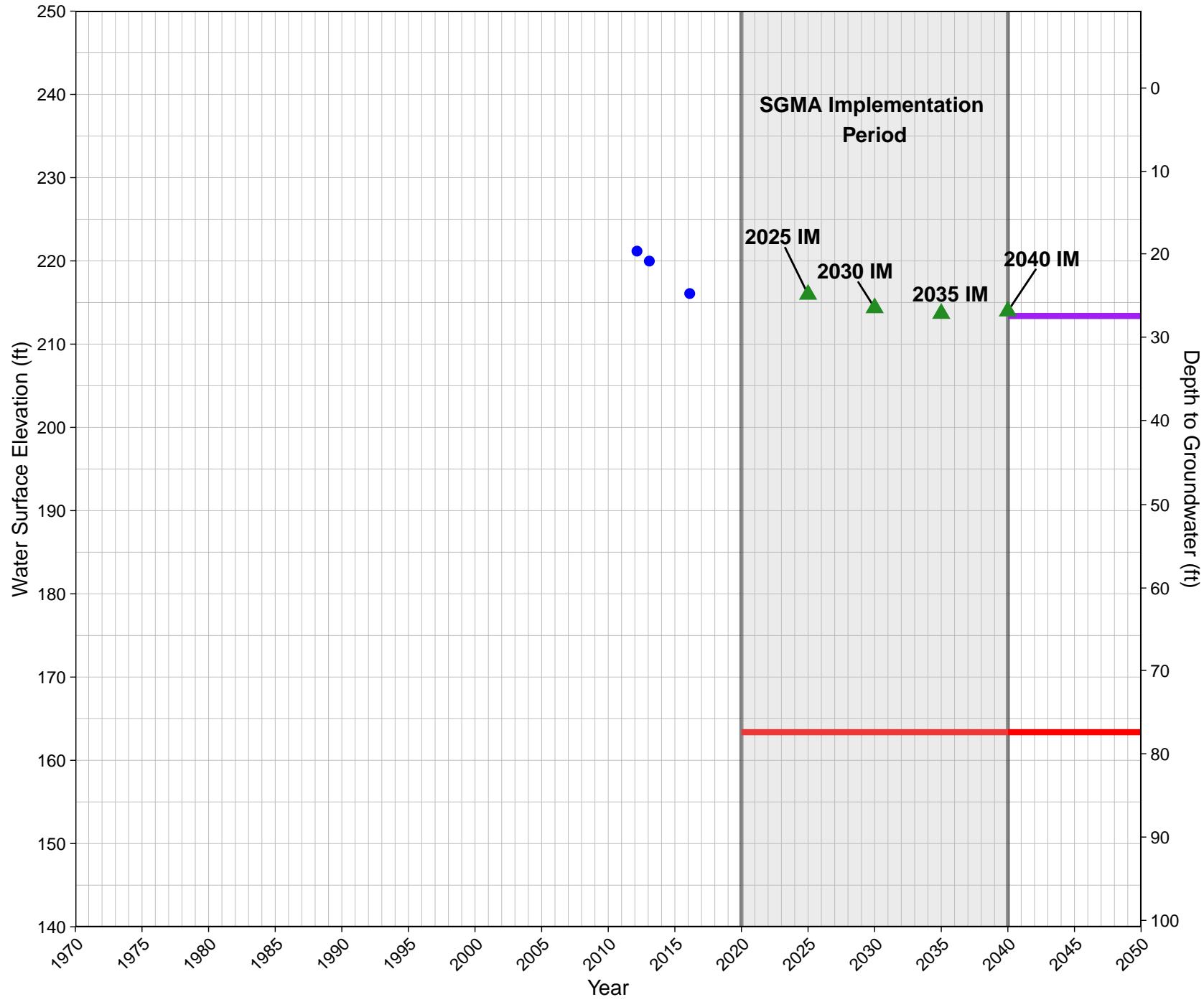
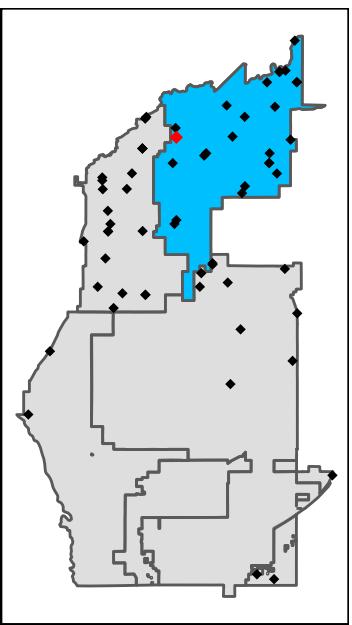
363572N1195468W001

Mid-Kings River GSA
Above E Zone B

051

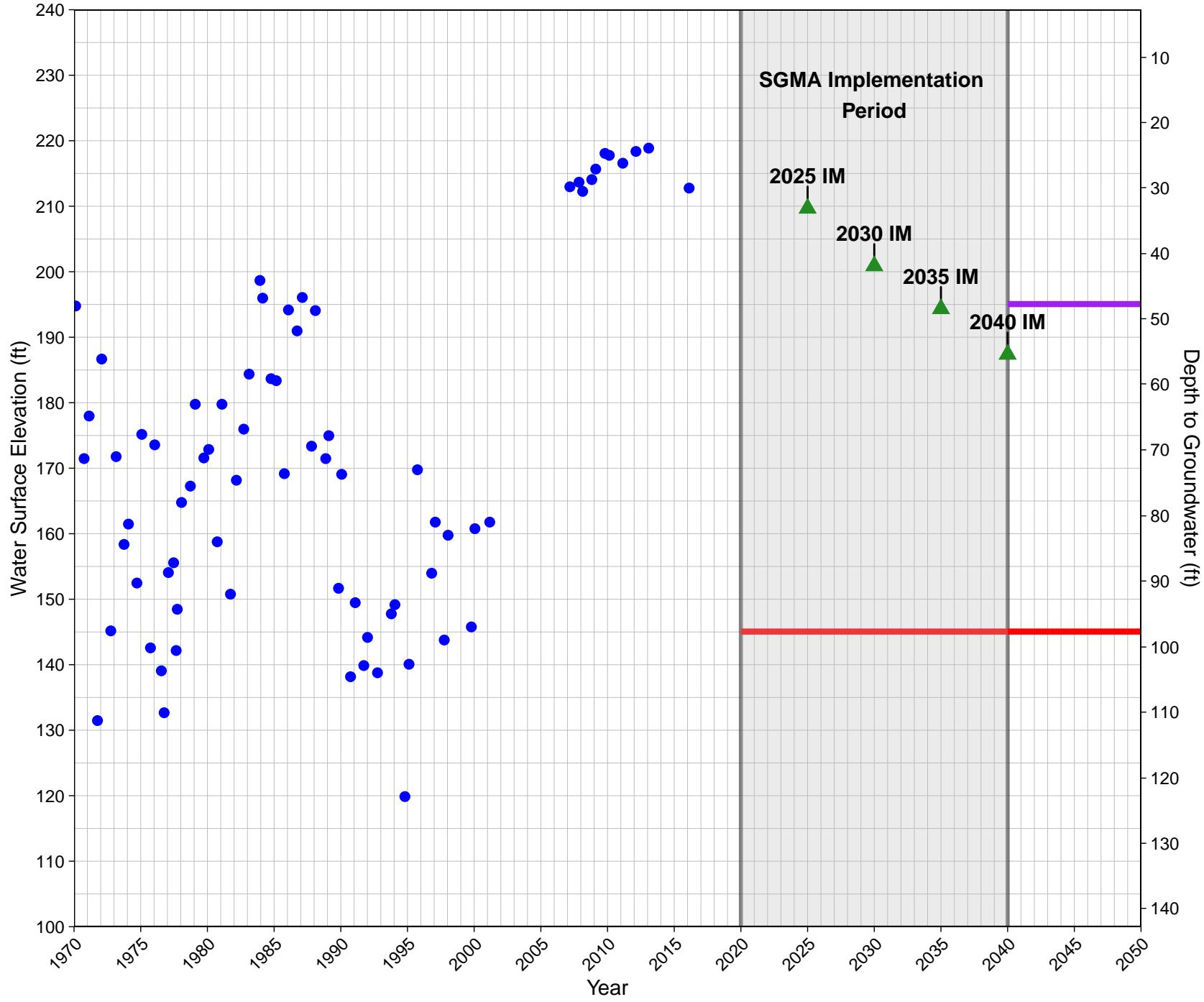
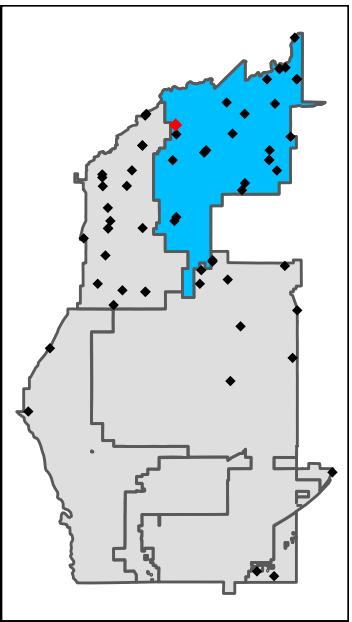
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

363603N1197266W001

Mid-Kings River GSA
Above A Zone A

052
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

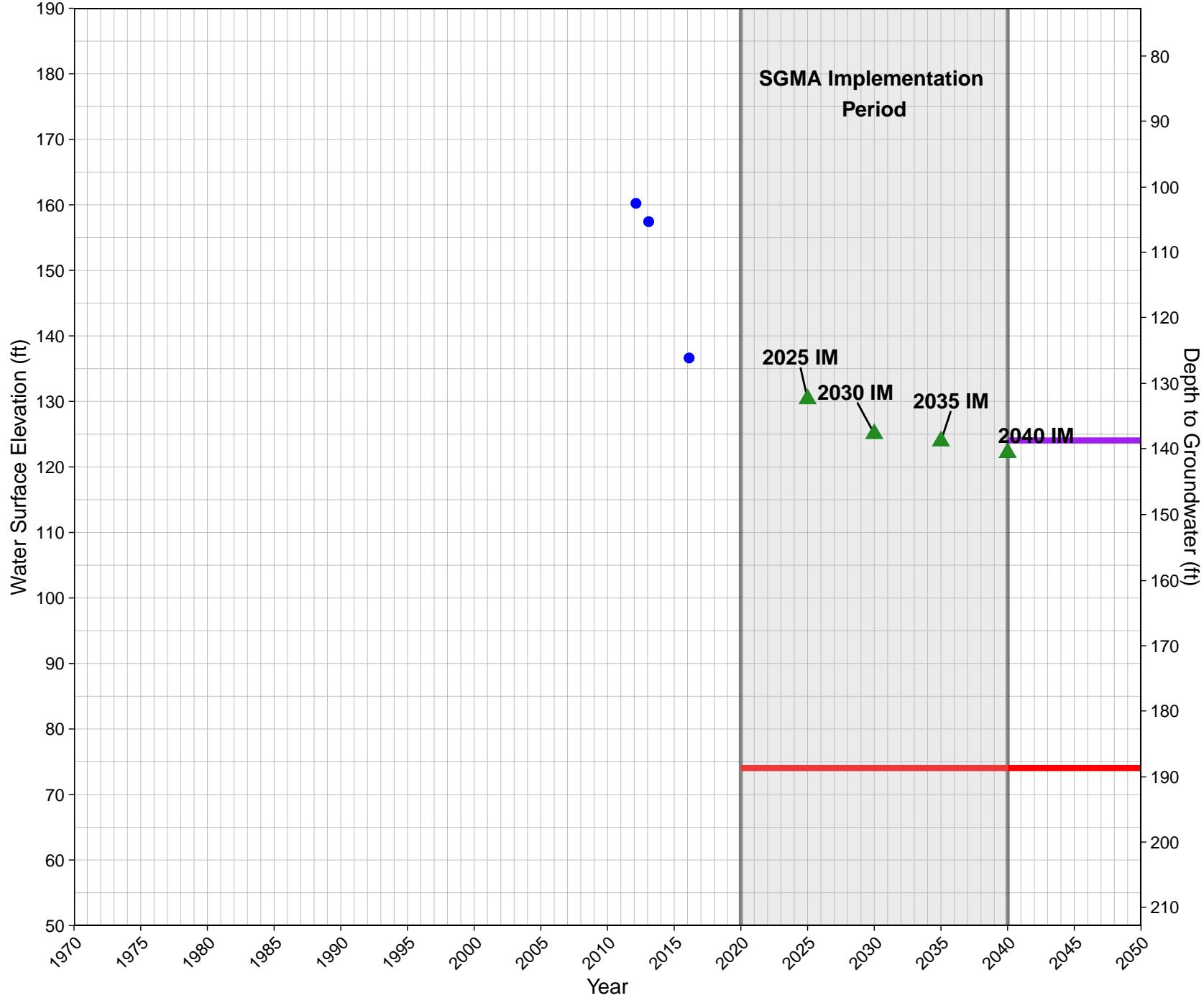
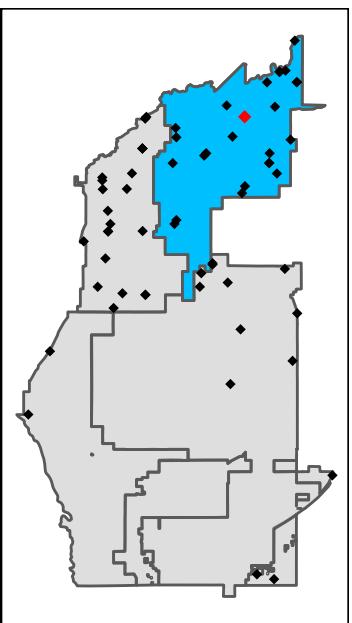
363722N1197282W001

Mid-Kings River GSA
Above E Zone B

053	Measurements	Interim Milestones (IM)	Measureable Objective	Minimum Threshold
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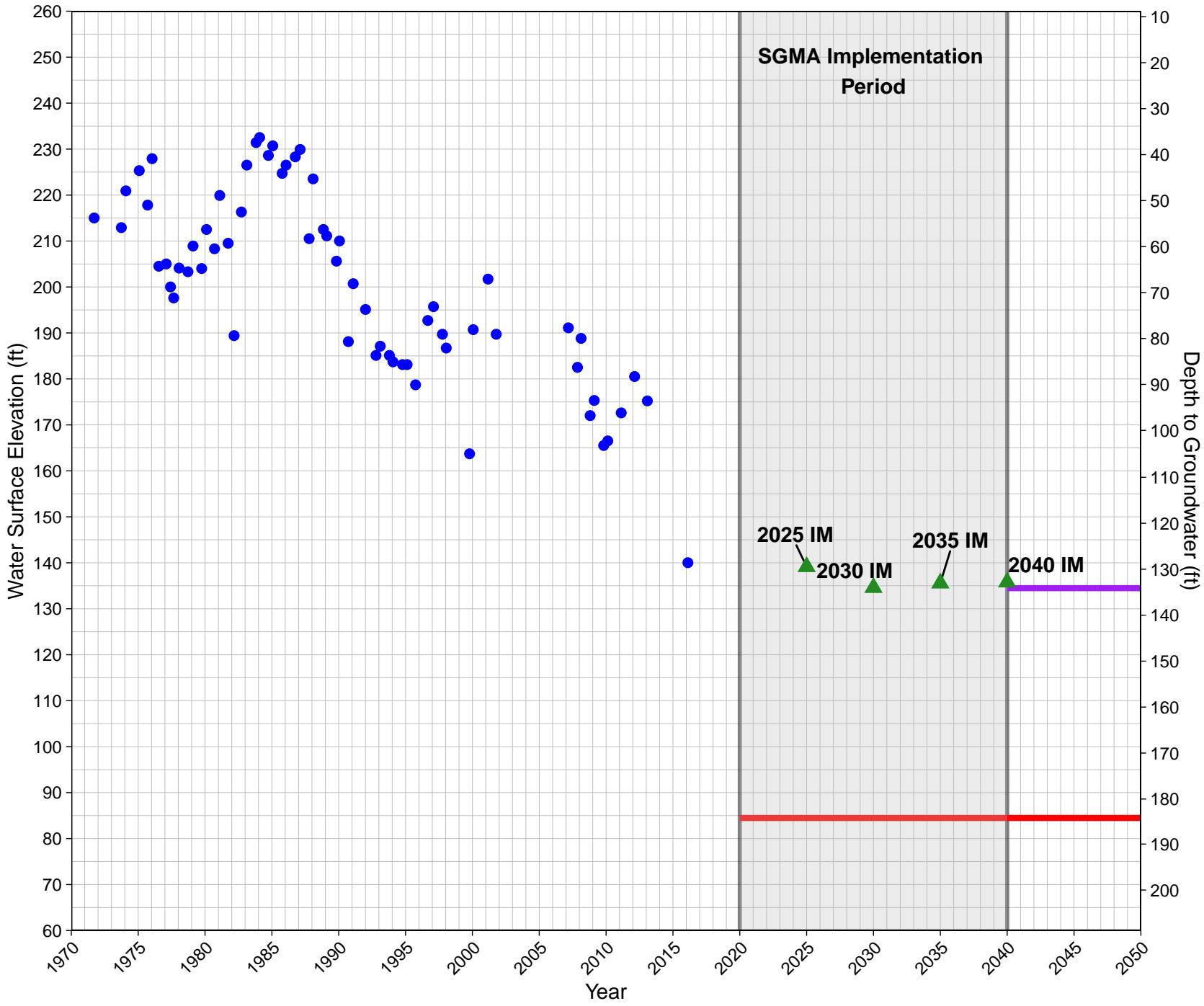
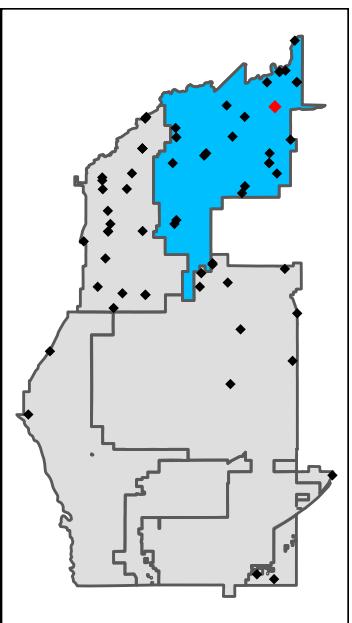
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Mid-Kings River GSA
Above E Zone B



054
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

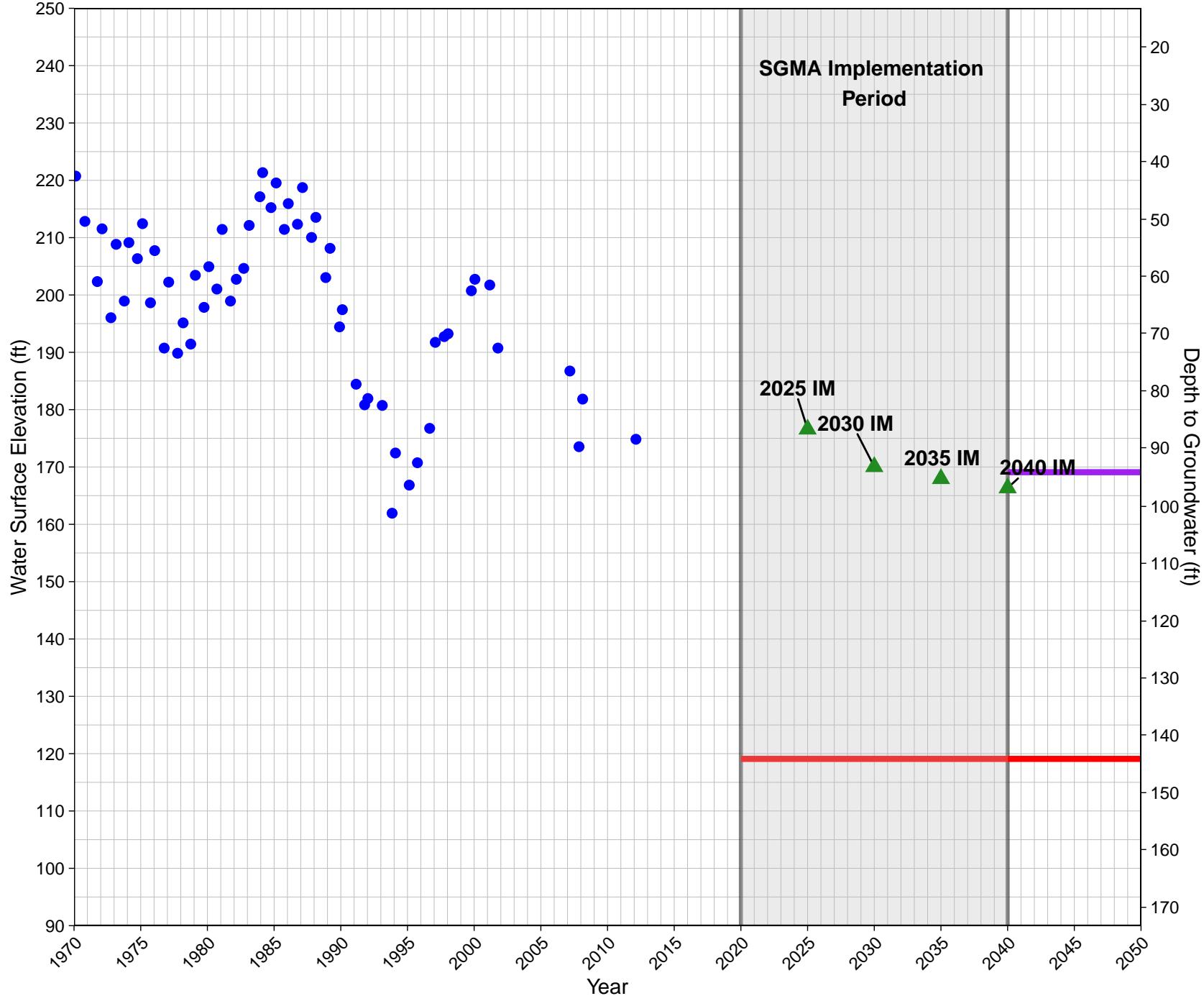
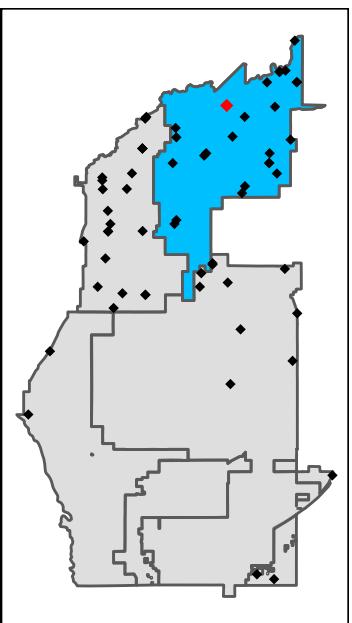
363992N1195716W001

Mid-Kings River GSA
Above E Zone B

055

- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

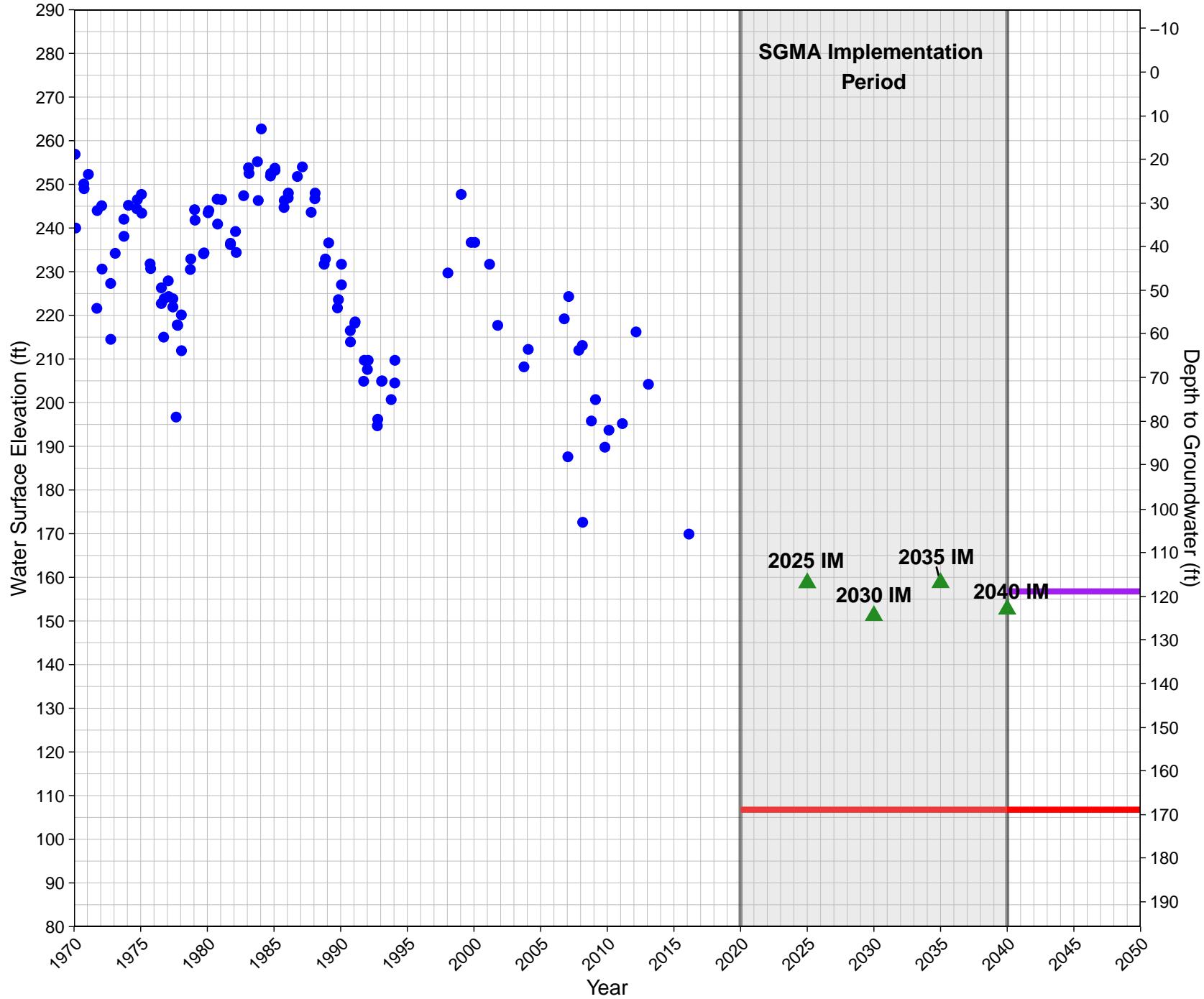
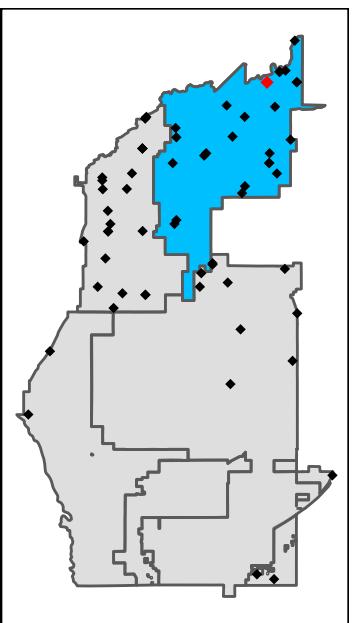
364008N1196477W001

Mid-Kings River GSA
Above E Zone B

056

◆ Measurements	▲ Interim Milestones (IM)	— Measureable Objective	— Minimum Threshold
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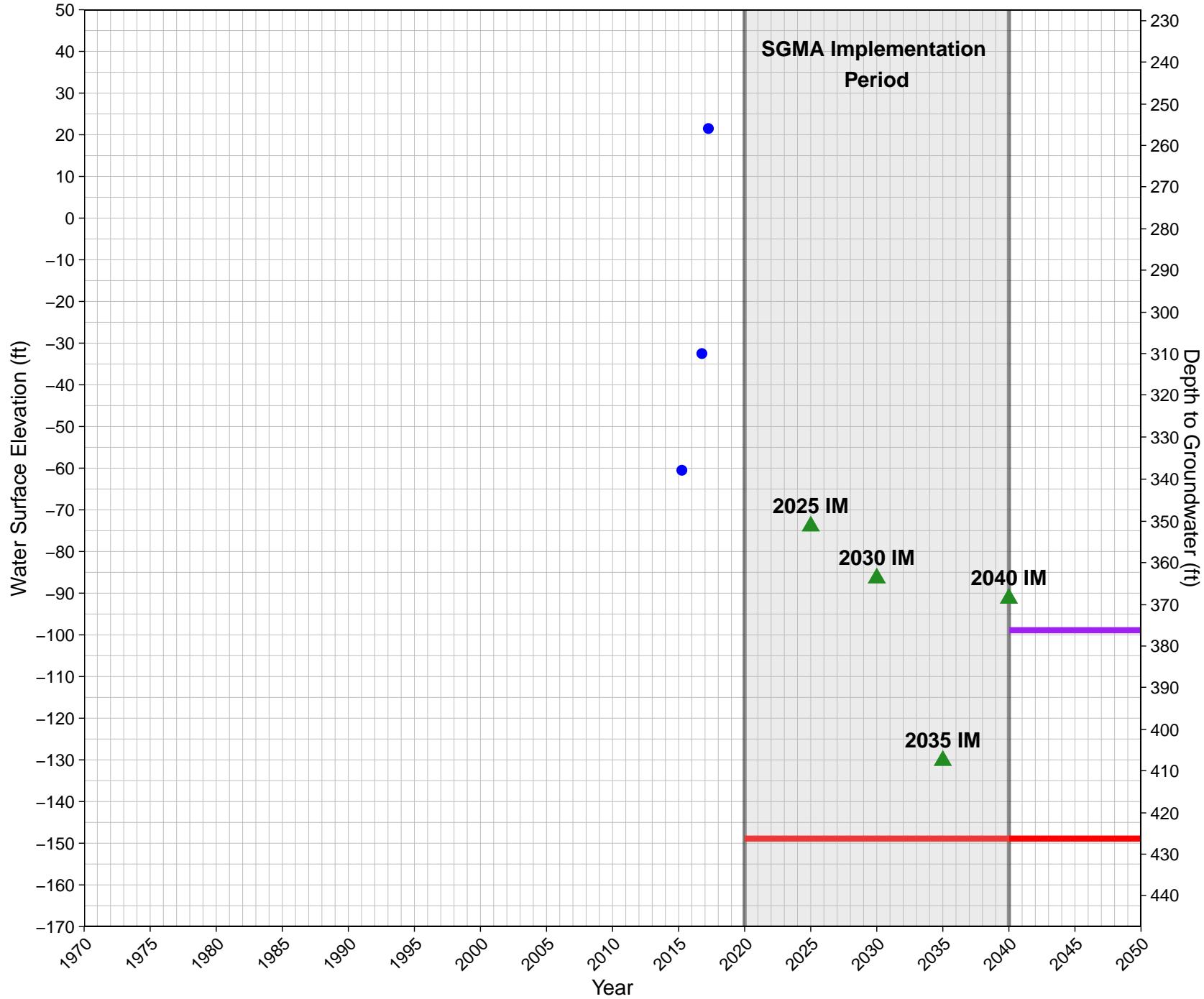
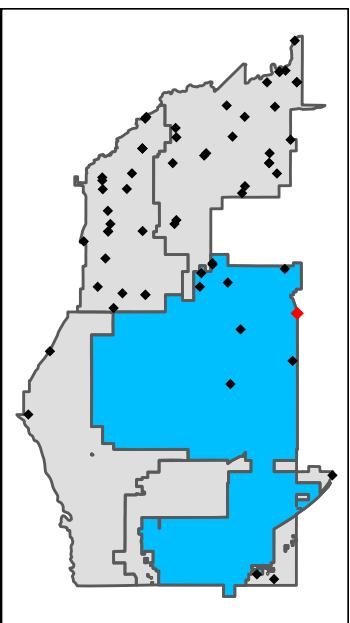
Mid-Kings River GSA
Above E Zone B

057

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

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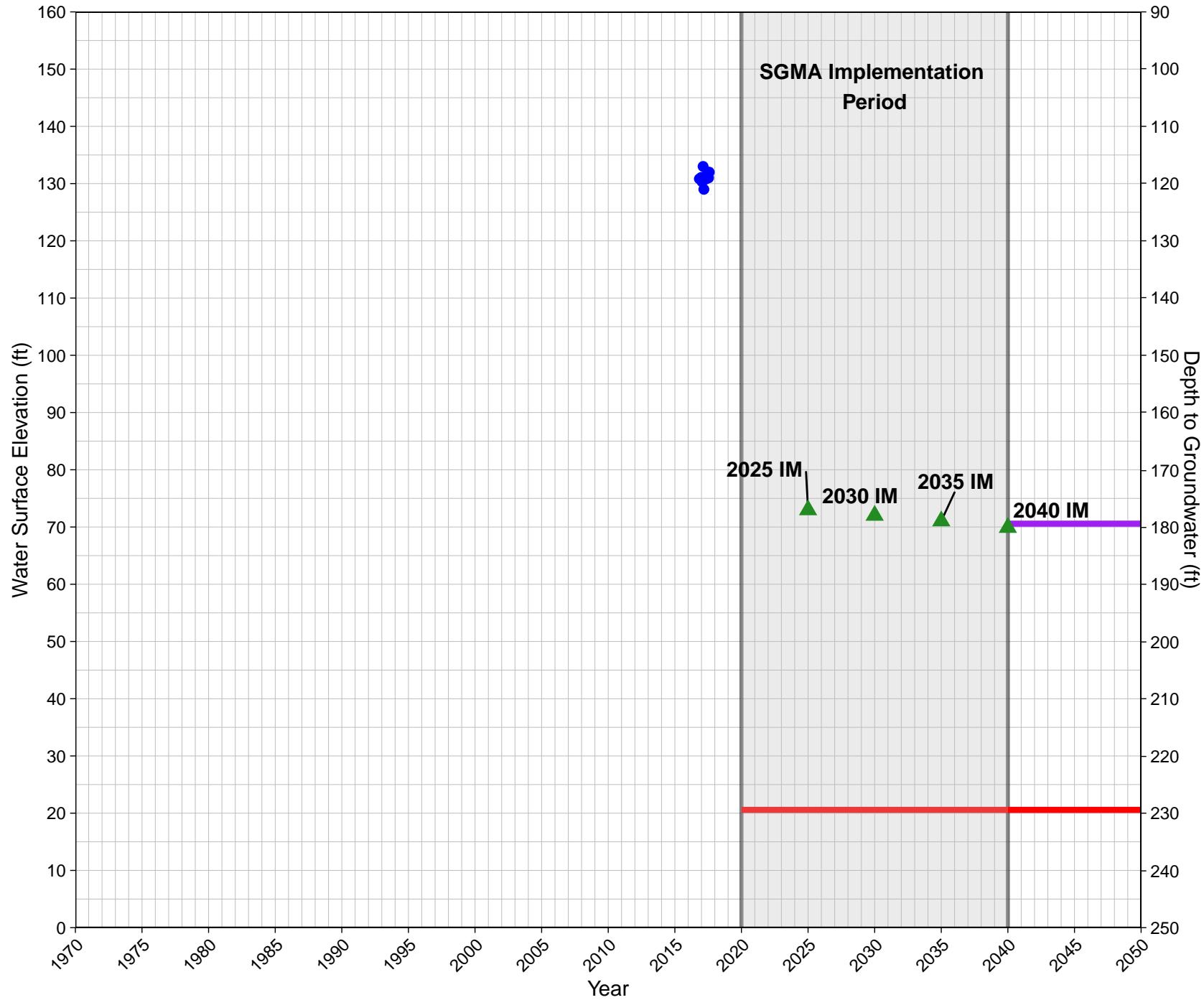
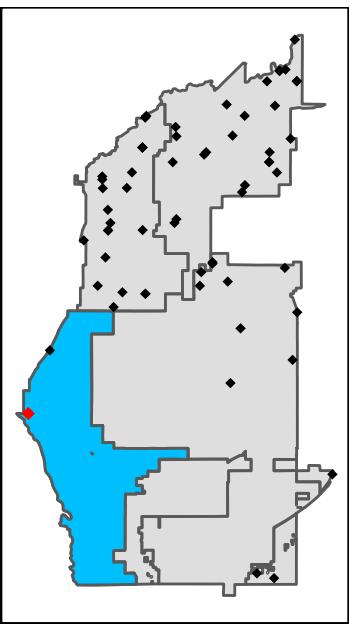
El Rico GSA
Below E Zone C



058

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

1610009–003

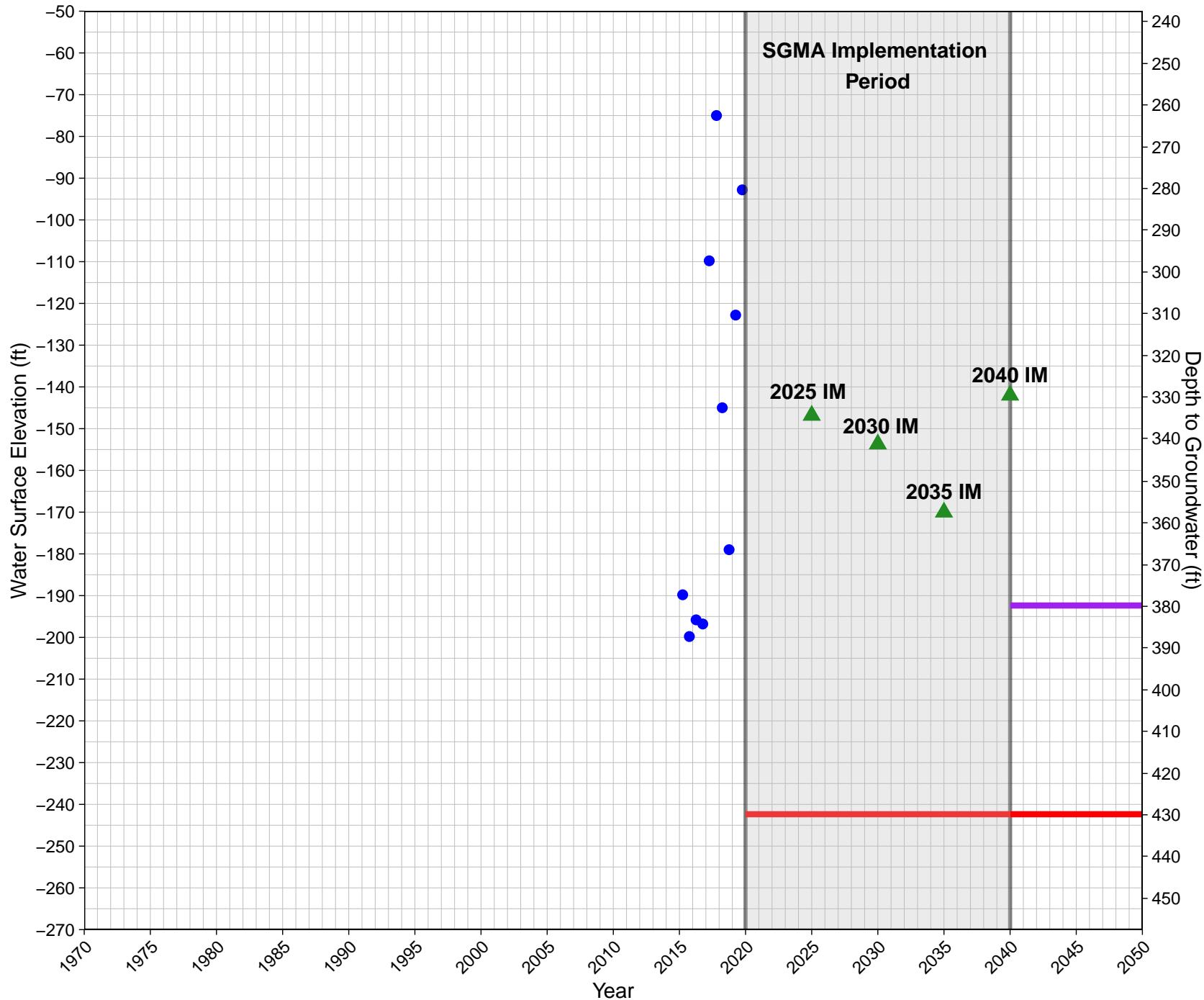
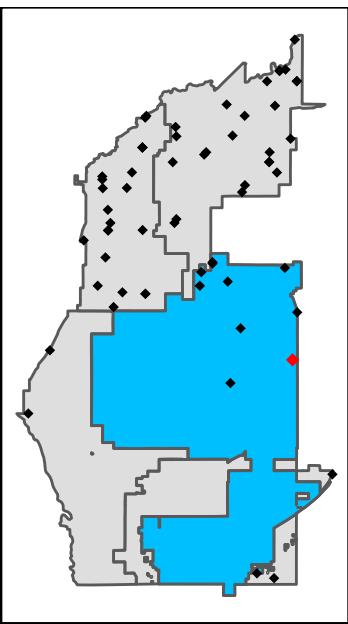
Southwest Kings GSA
Above E Zone B

059

◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

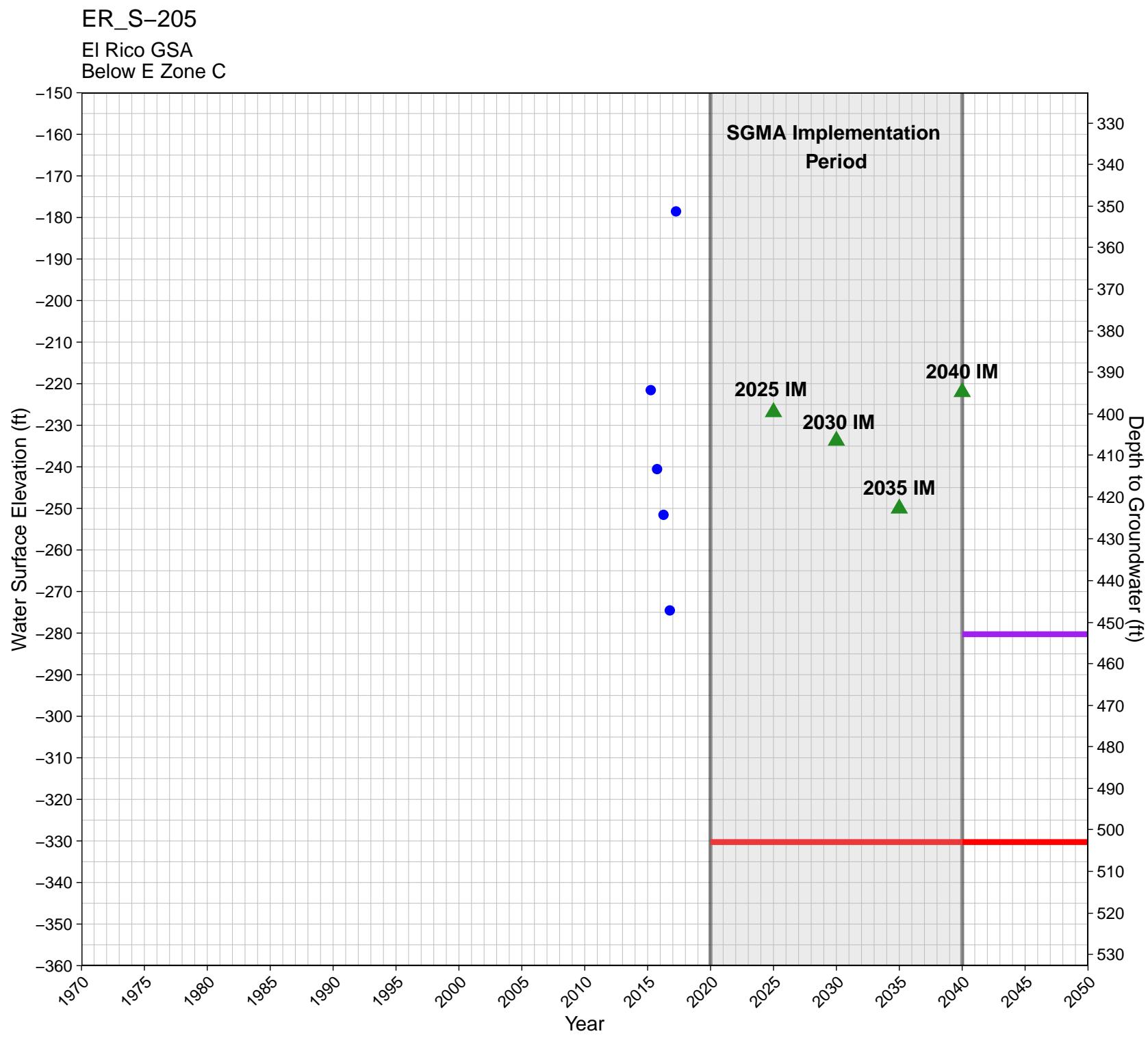
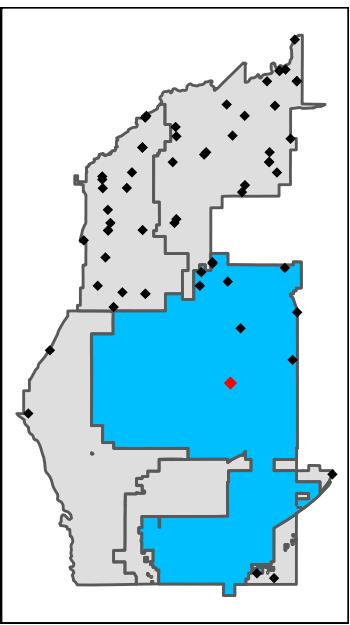
ER S-1

El Rico GSA
Below E Zone C



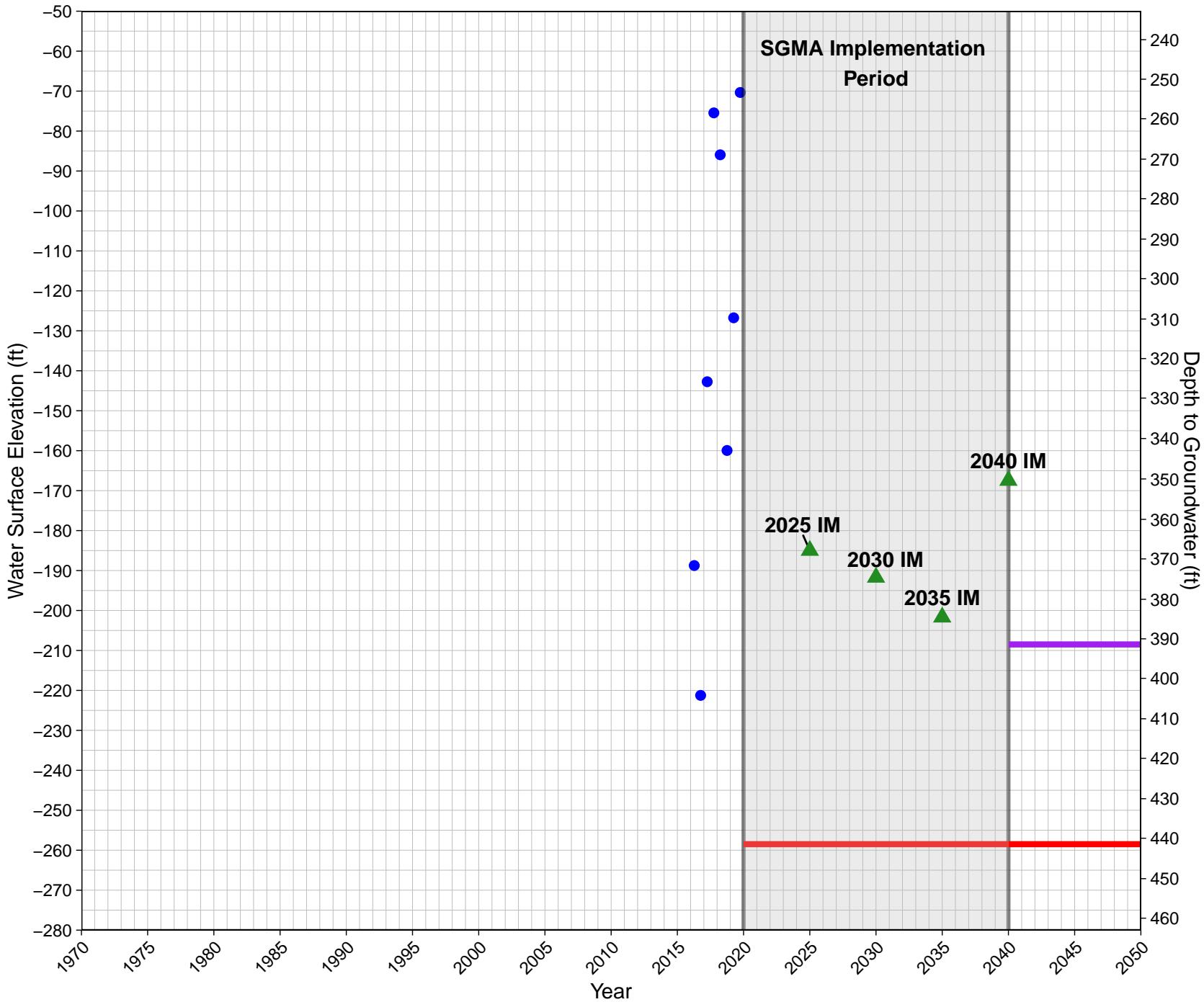
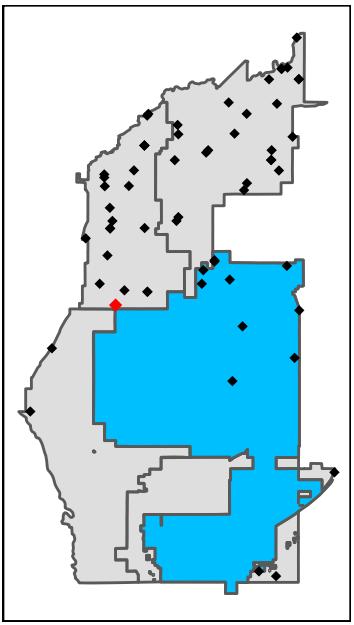
◆ Measurements ▲ Interim Milestones (IM) ■ Measureable Objective ━ Minimum Threshold

ER_S-205
El Rico GSA
Below E Zone C



◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

ER_S-225
El Rico GSA
Below E Zone C

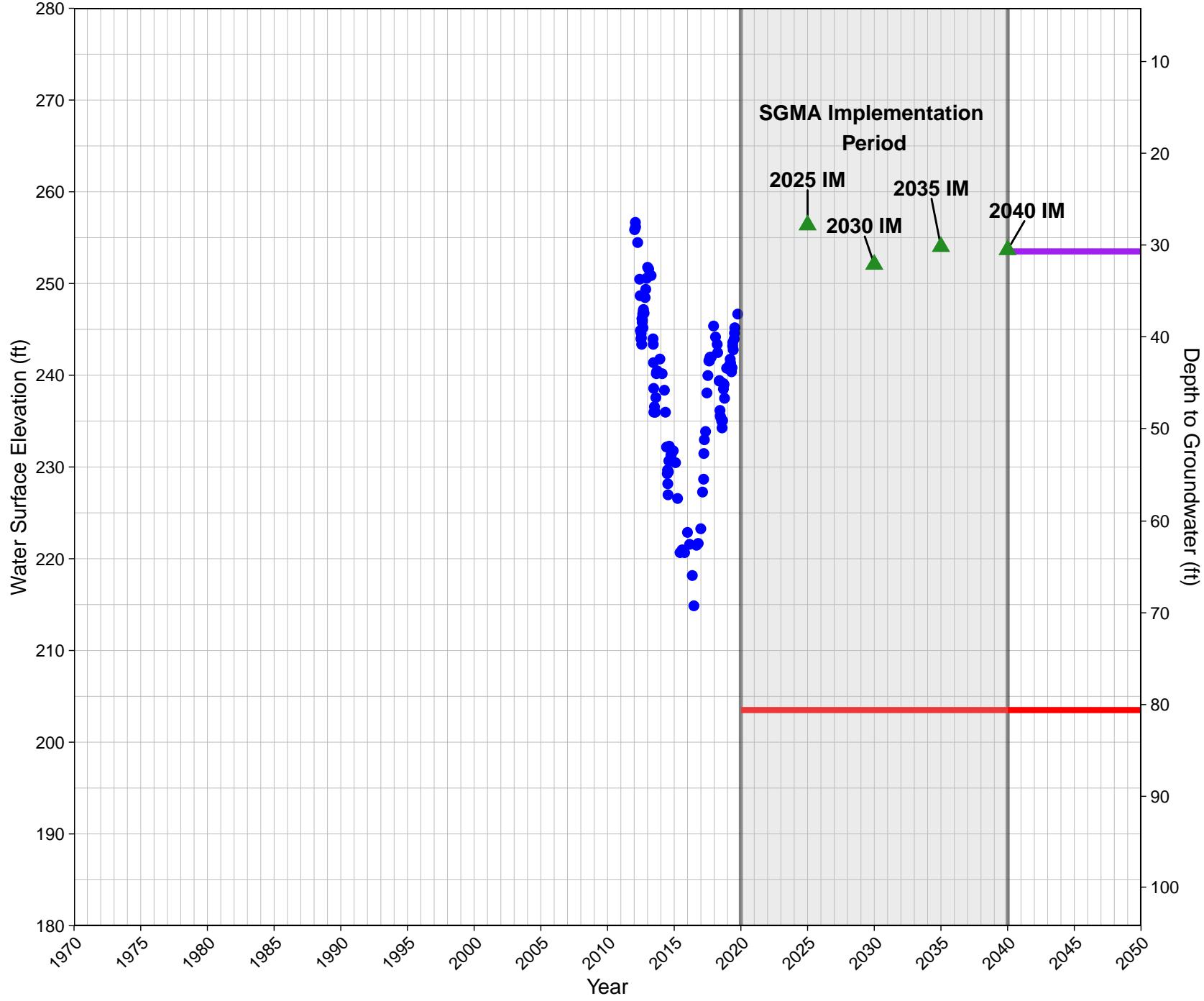
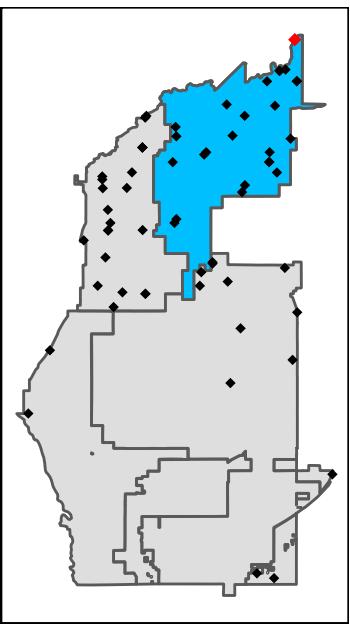


062

- ◆ Measurements ▲ Interim Milestones (IM) ■ Measureable Objective ━━ Minimum Threshold

MWA INTDEEP

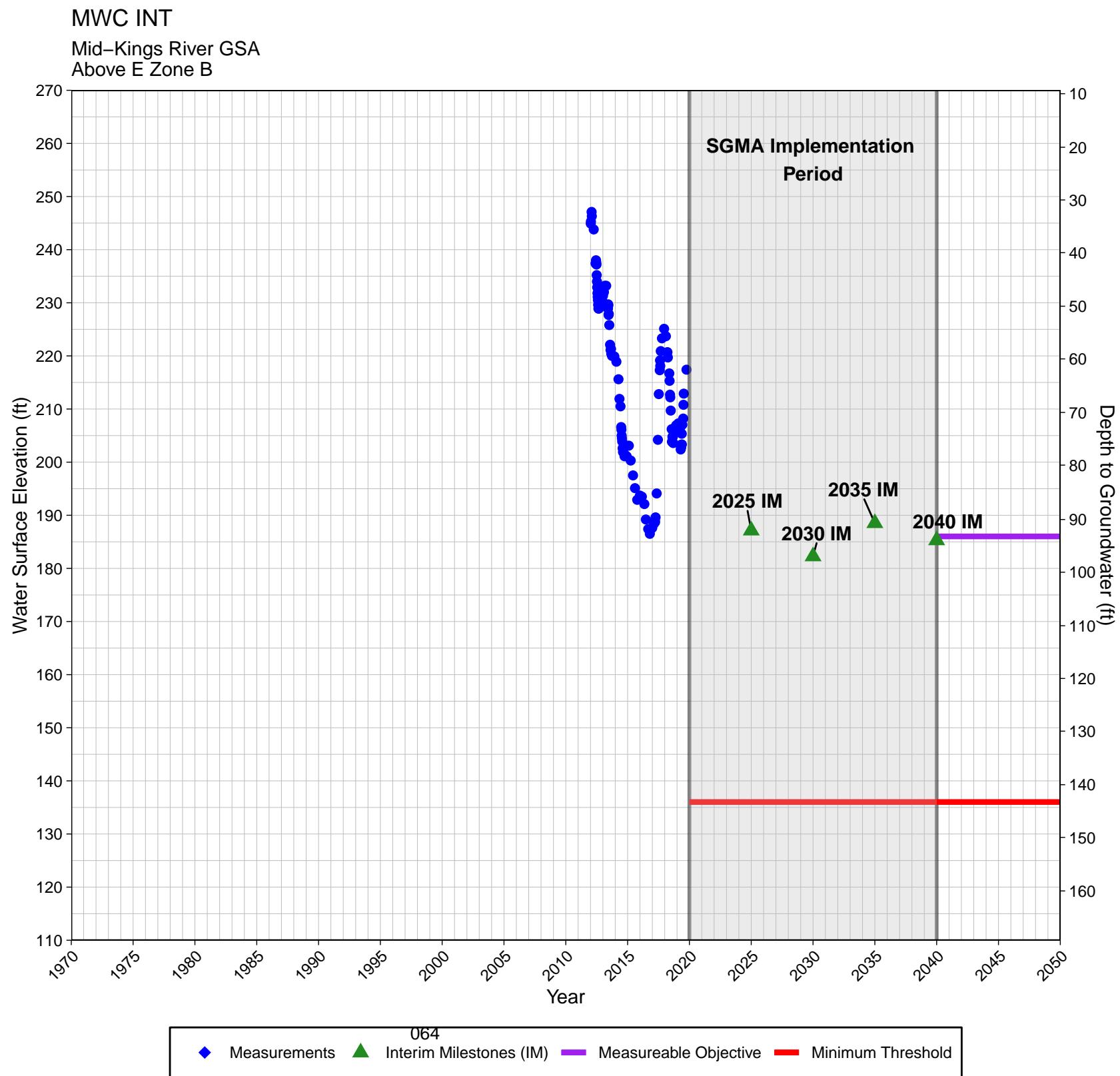
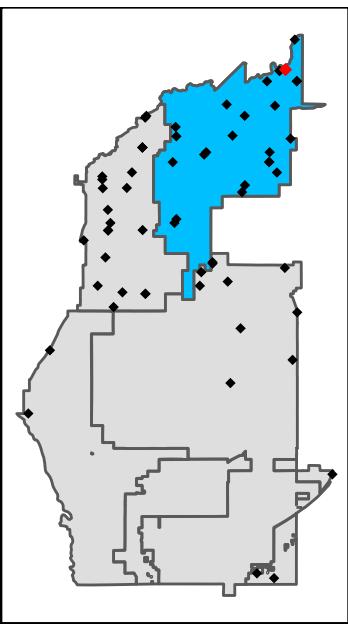
Mid-Kings River GSA
Above E Zone B



063

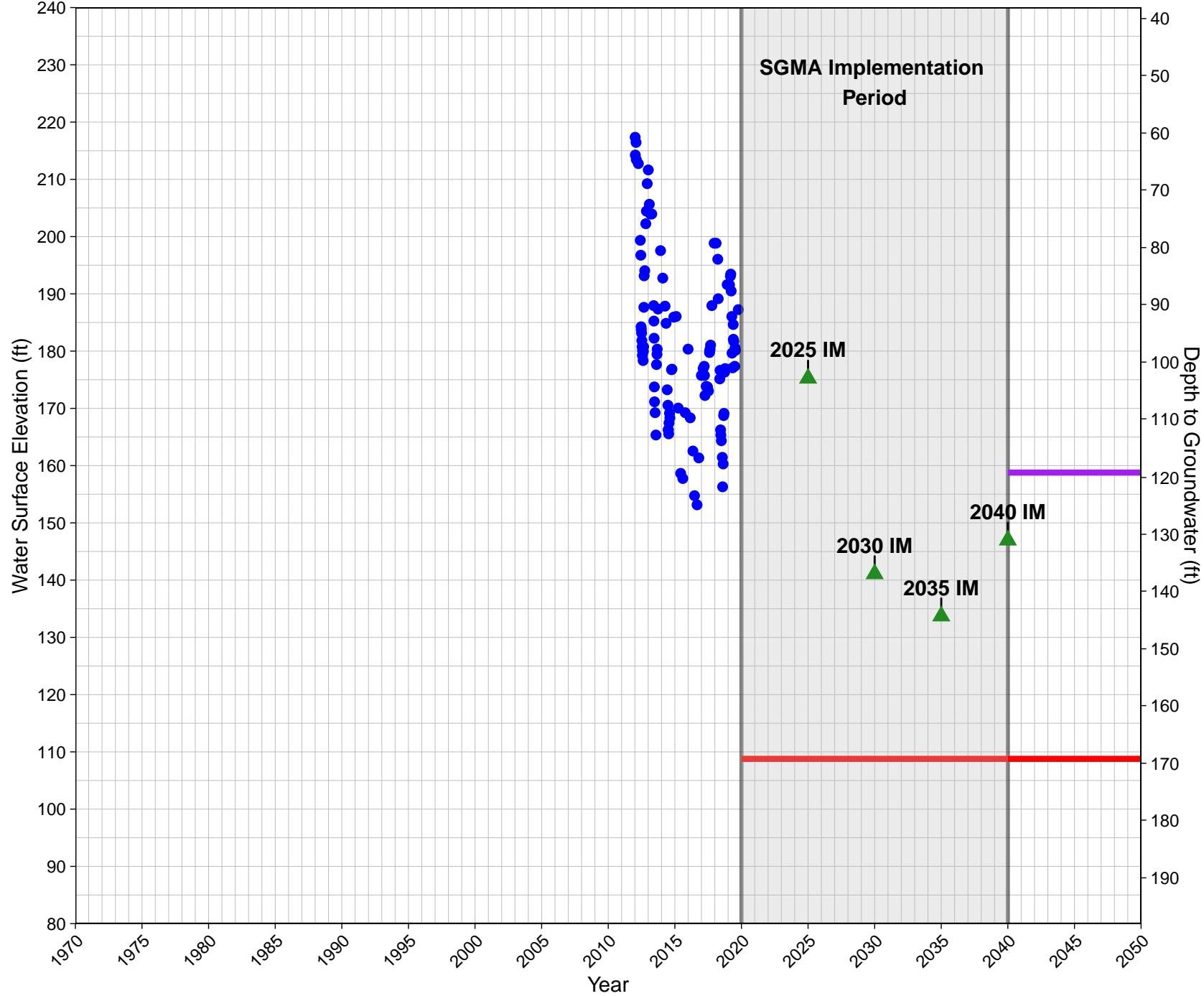
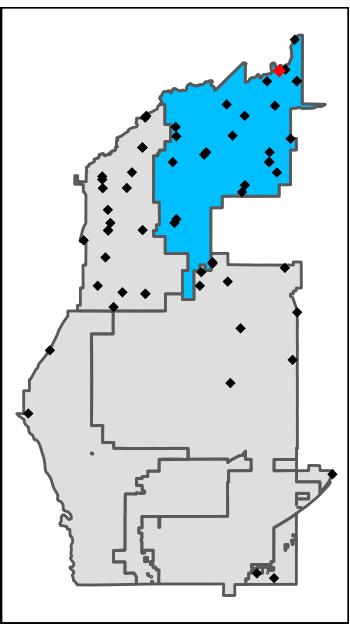
MWC INT

Mid-Kings River GSA
Above E Zone B



MWD DEEP

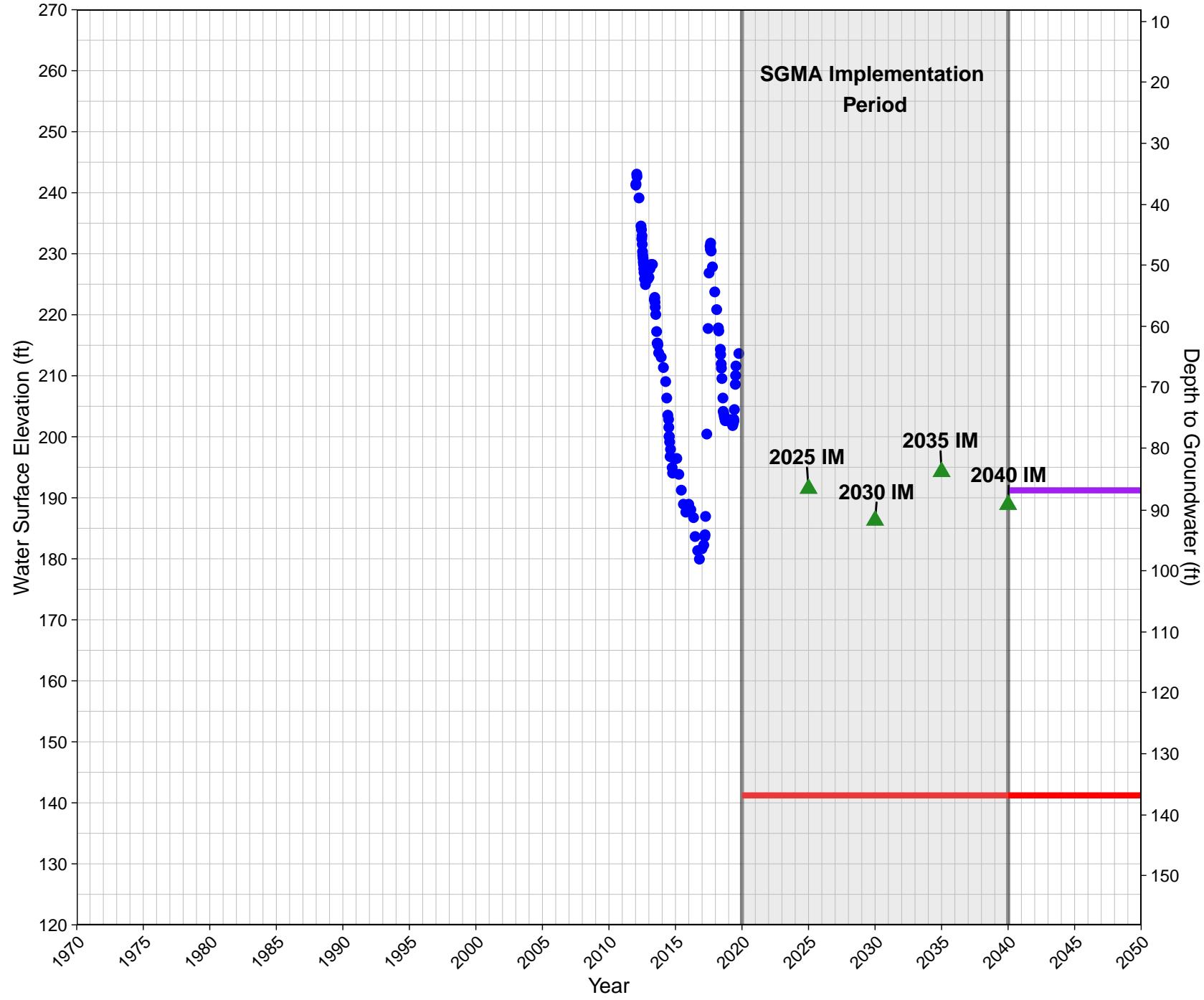
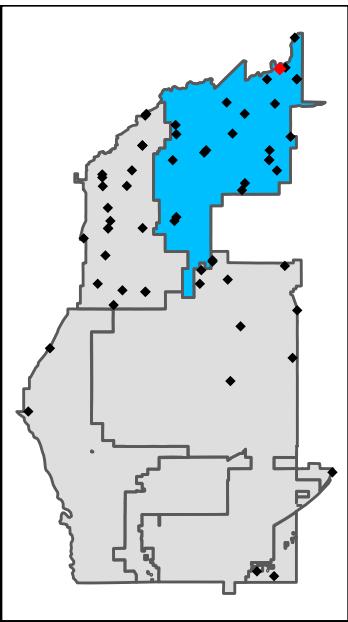
Mid-Kings River GSA
Below E Zone C



065			
◆ Measurements	▲ Interim Milestones (IM)	— Measureable Objective	— Minimum Threshold

MWD INT

Mid-Kings River GSA
Above E Zone B

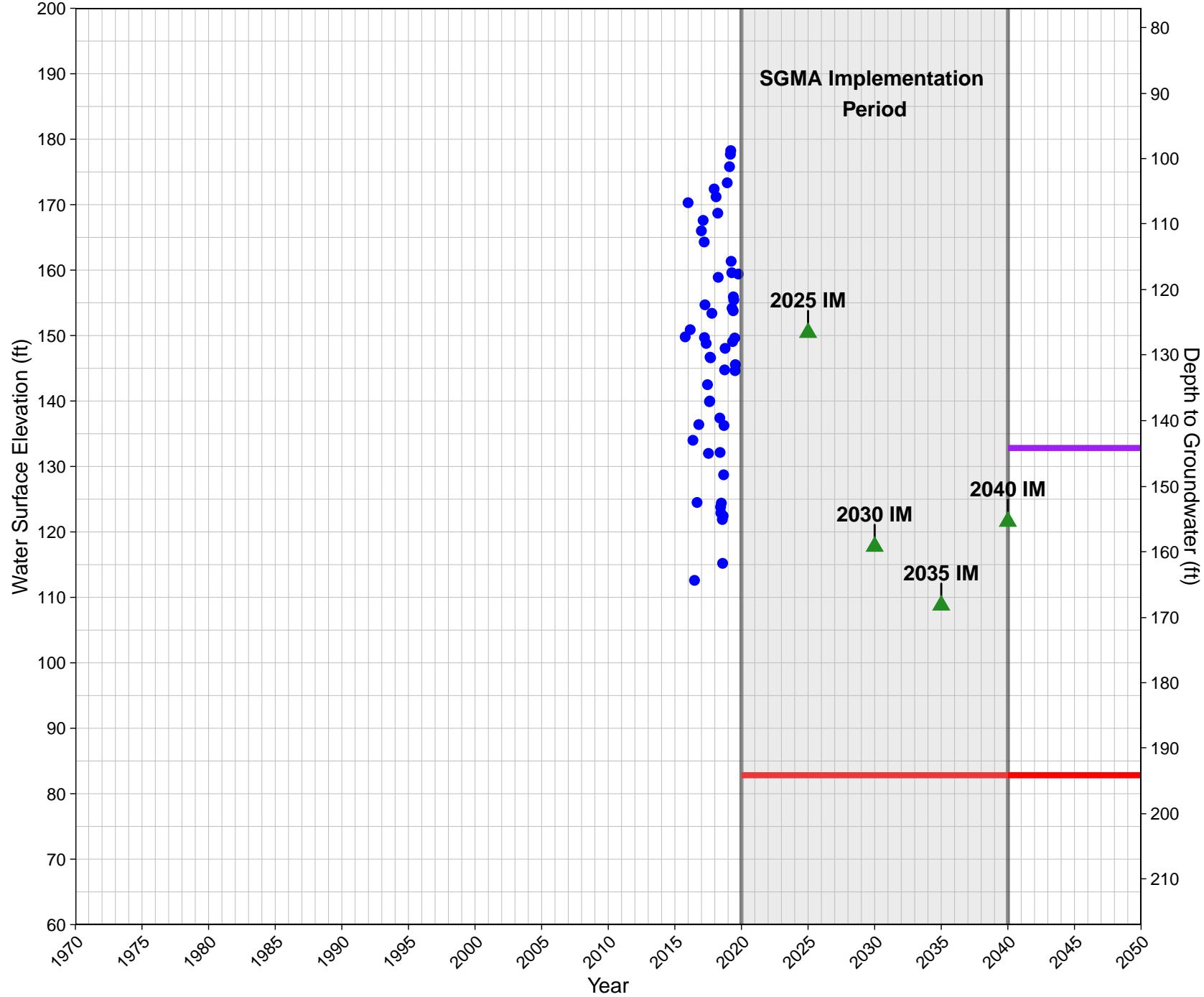
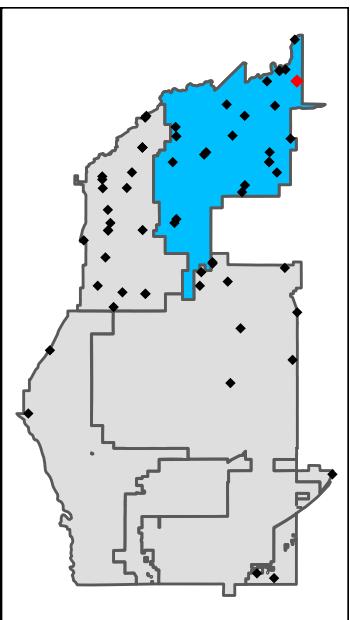


066

- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

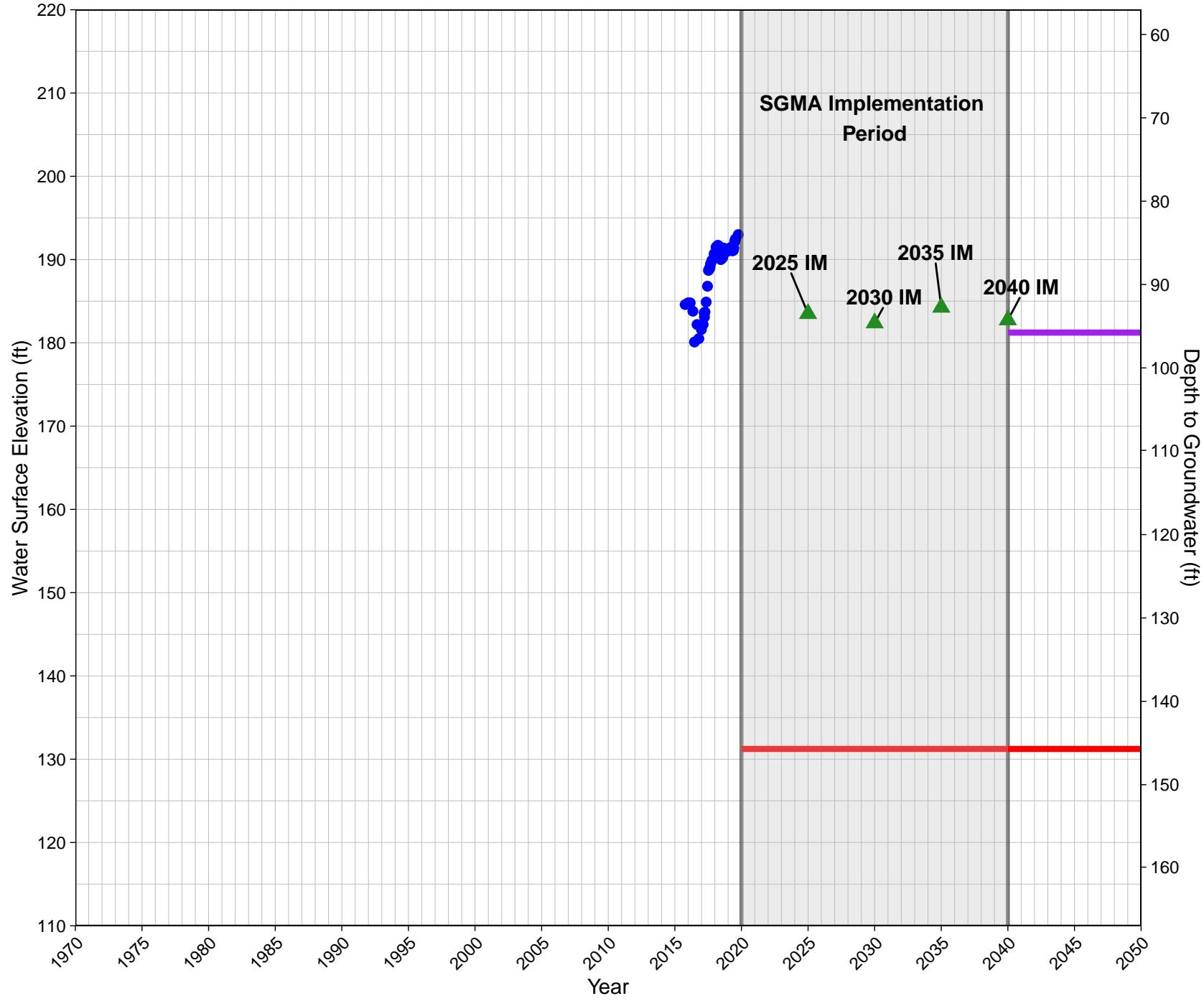
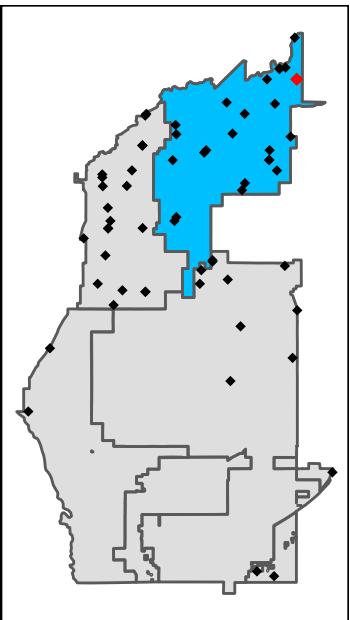
MWG DEEP

Mid-Kings River GSA
Below E Zone C



MWG INT

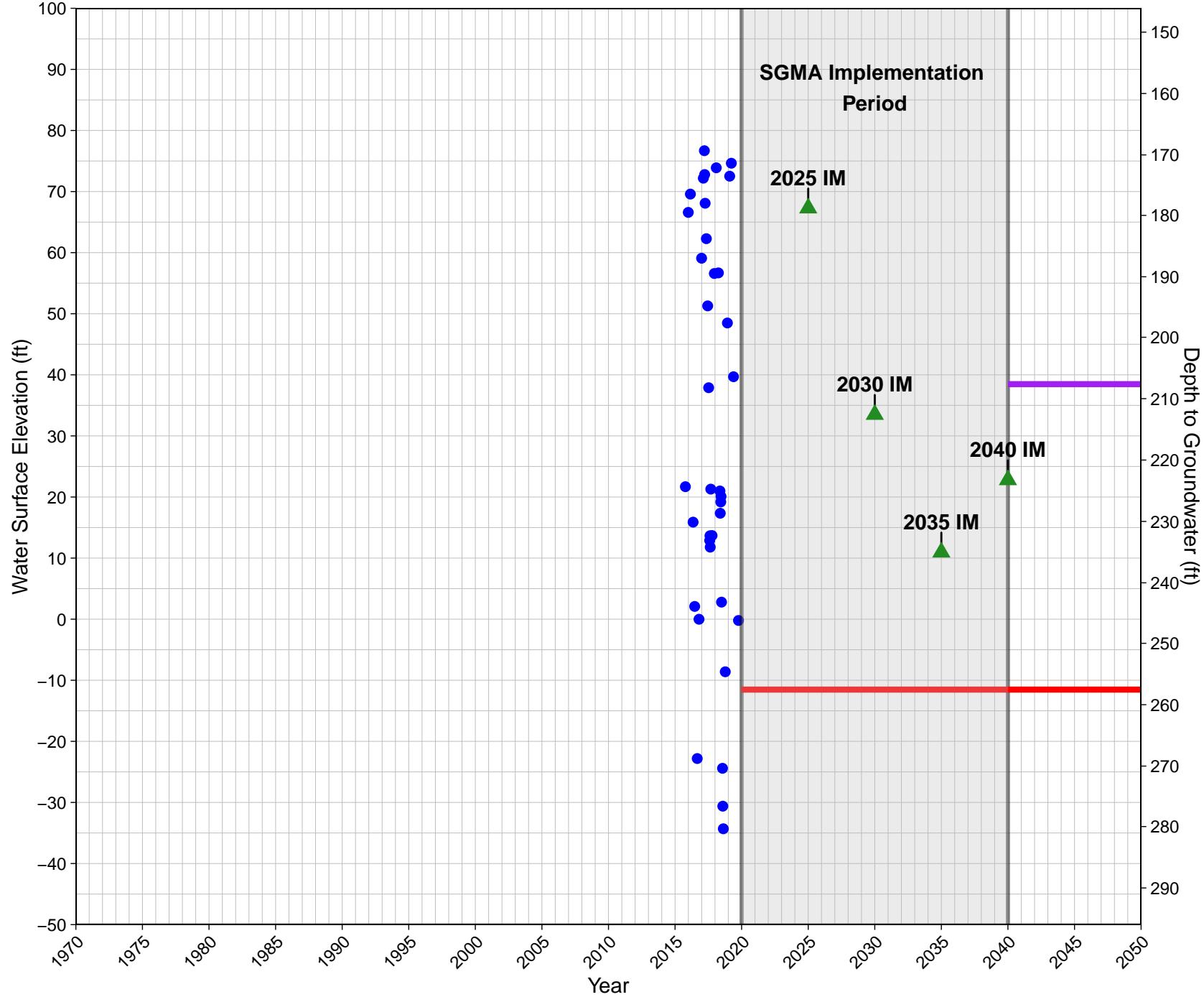
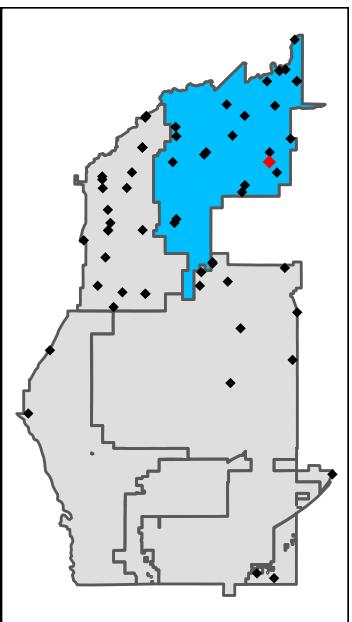
Mid-Kings River GSA
Above E Zone B



068
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

MWH DEEP

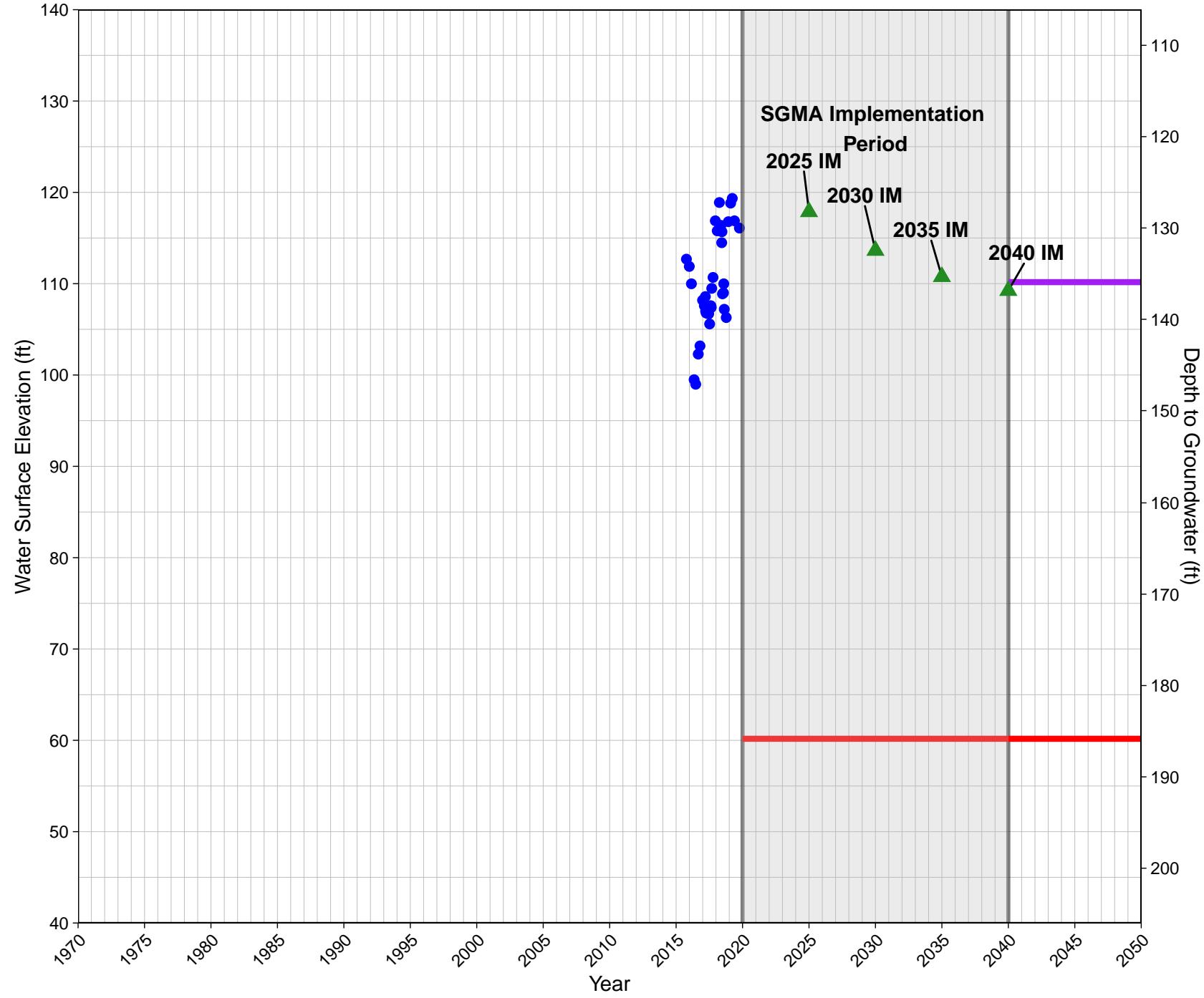
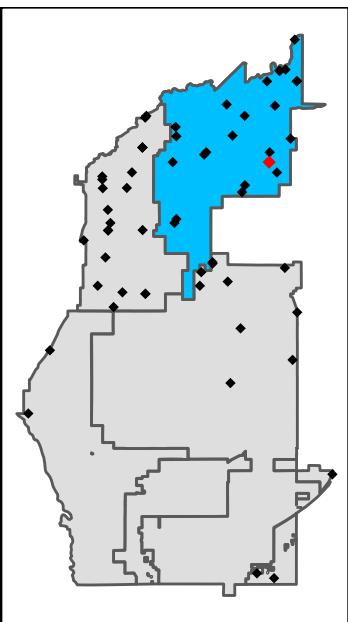
Mid-Kings River GSA
Below E Zone C



069
◆ Measurements ▲ Interim Milestones (IM) — Measureable Objective — Minimum Threshold

MWH INT

Mid-Kings River GSA
Above E Zone B

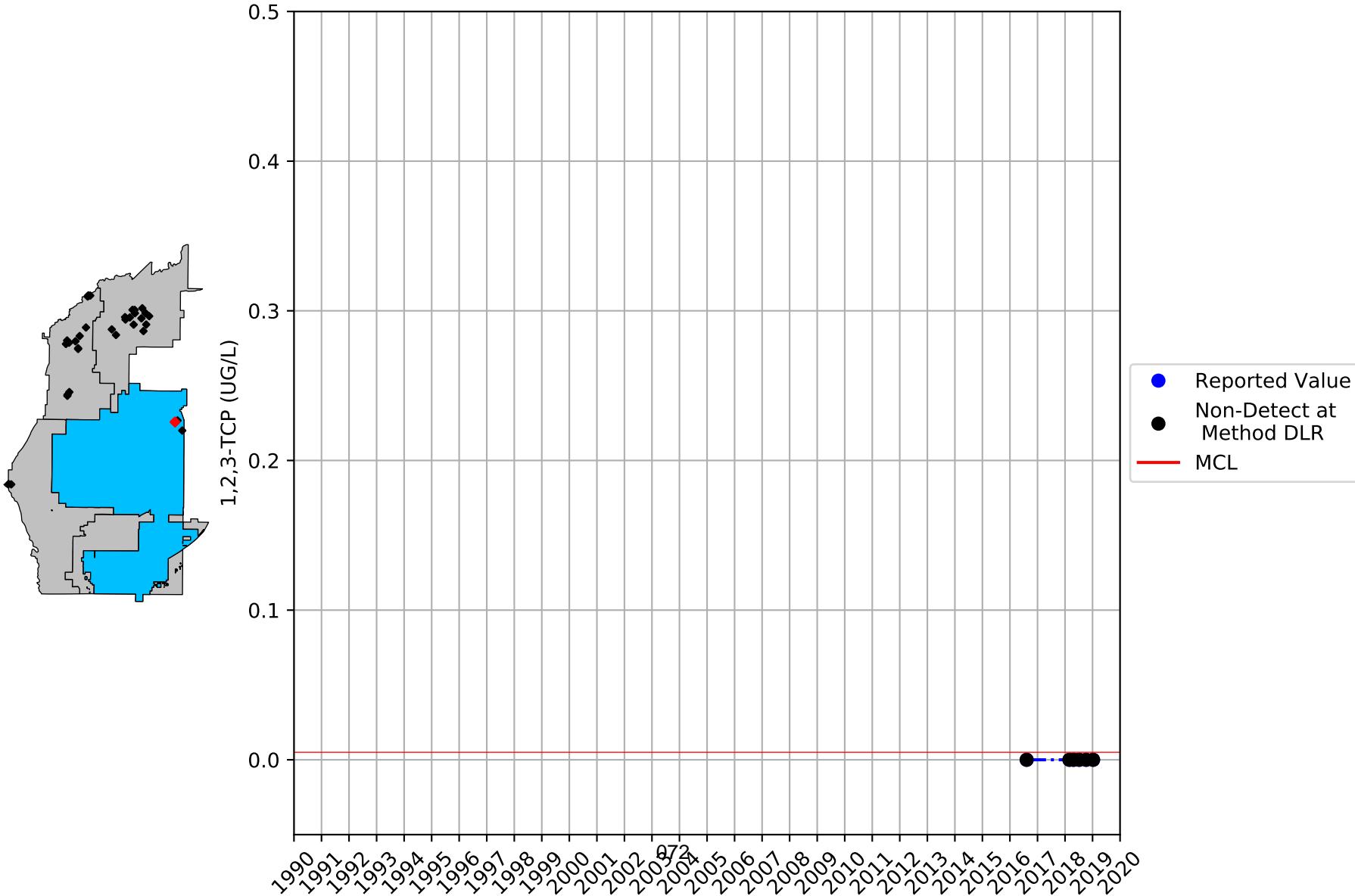


070

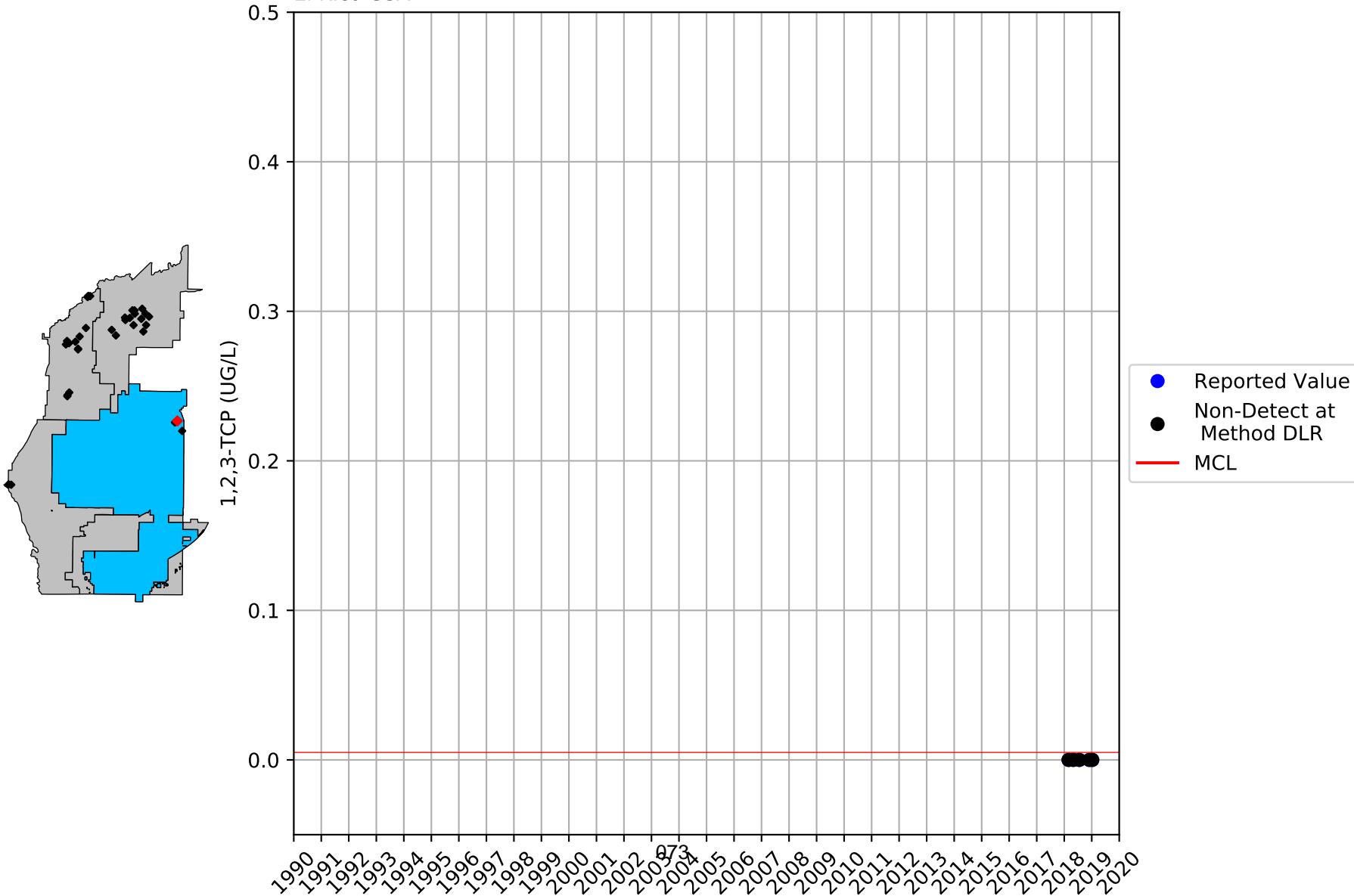
- ◆ Measurements
- ▲ Interim Milestones (IM)
- Measureable Objective
- Minimum Threshold

Appendix B – Groundwater Quality Time Series Graphs

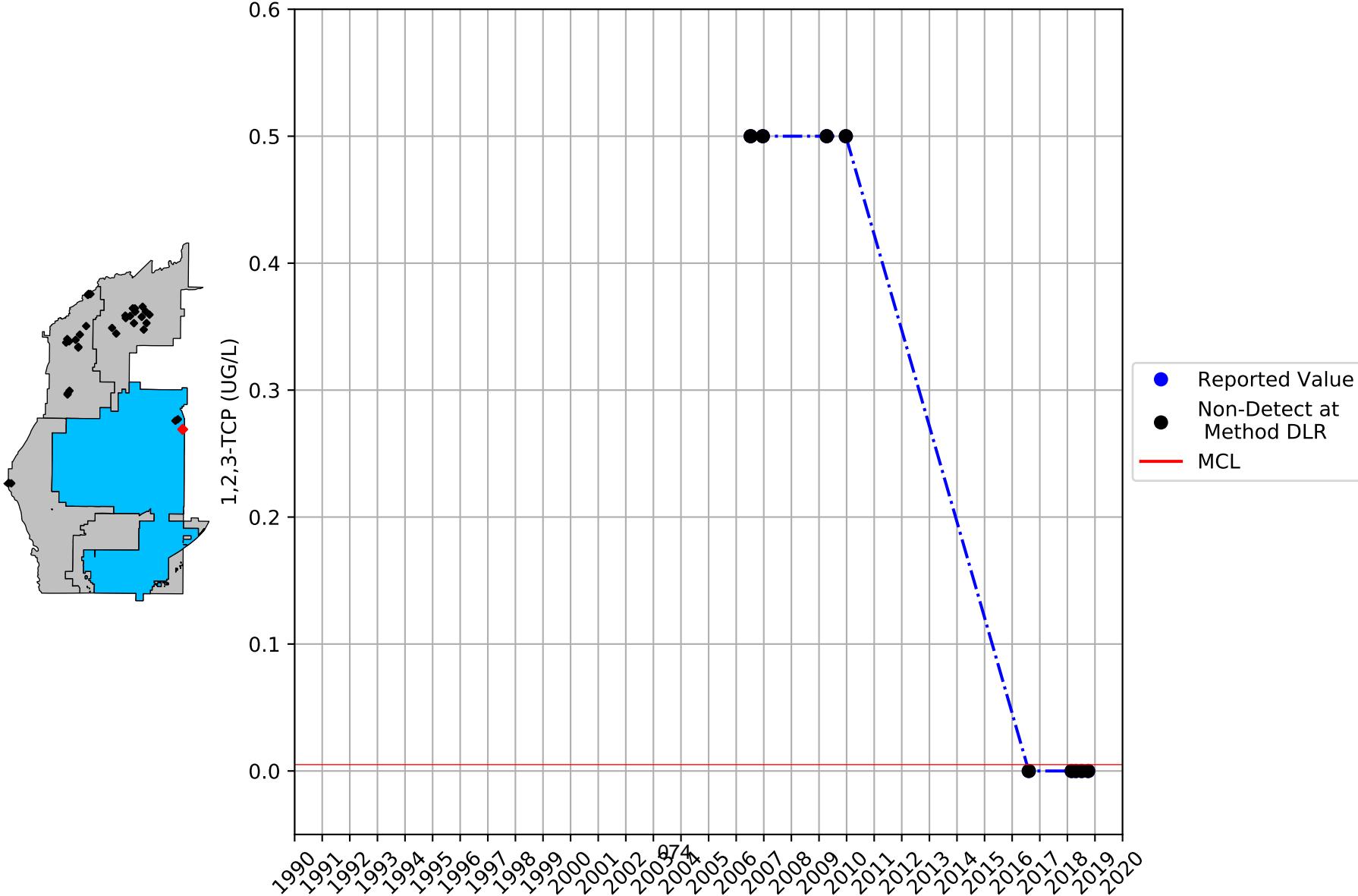
1,2,3-TRICHLOROPROPANE
1610004-018 WELL 09B - BEFORE AS TRT
El Rico GSA



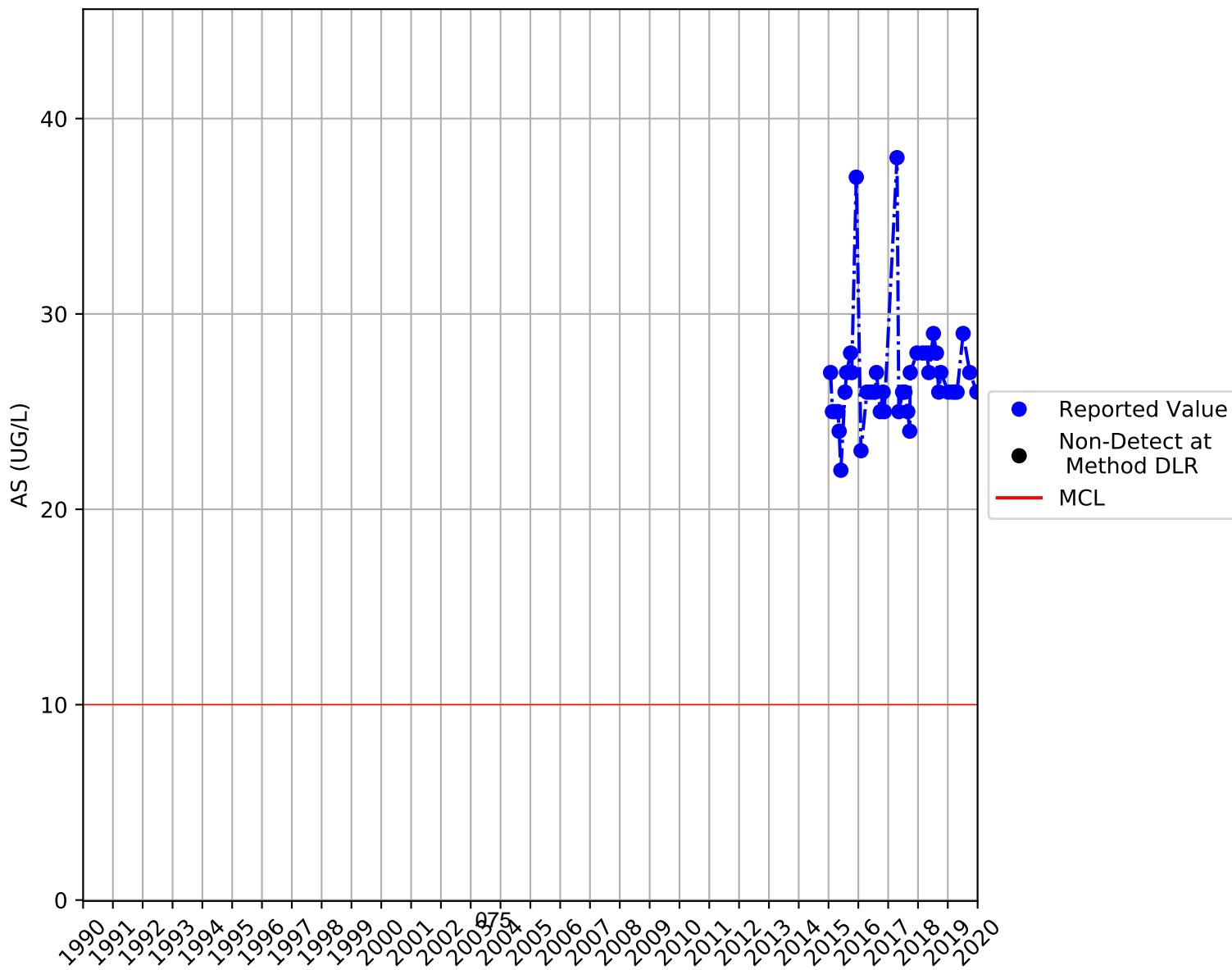
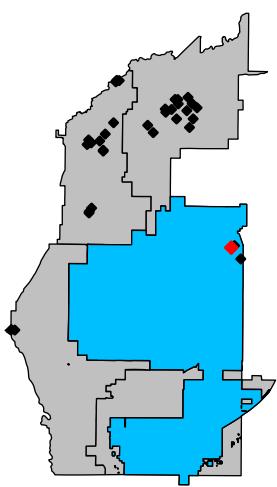
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El Rico GSA



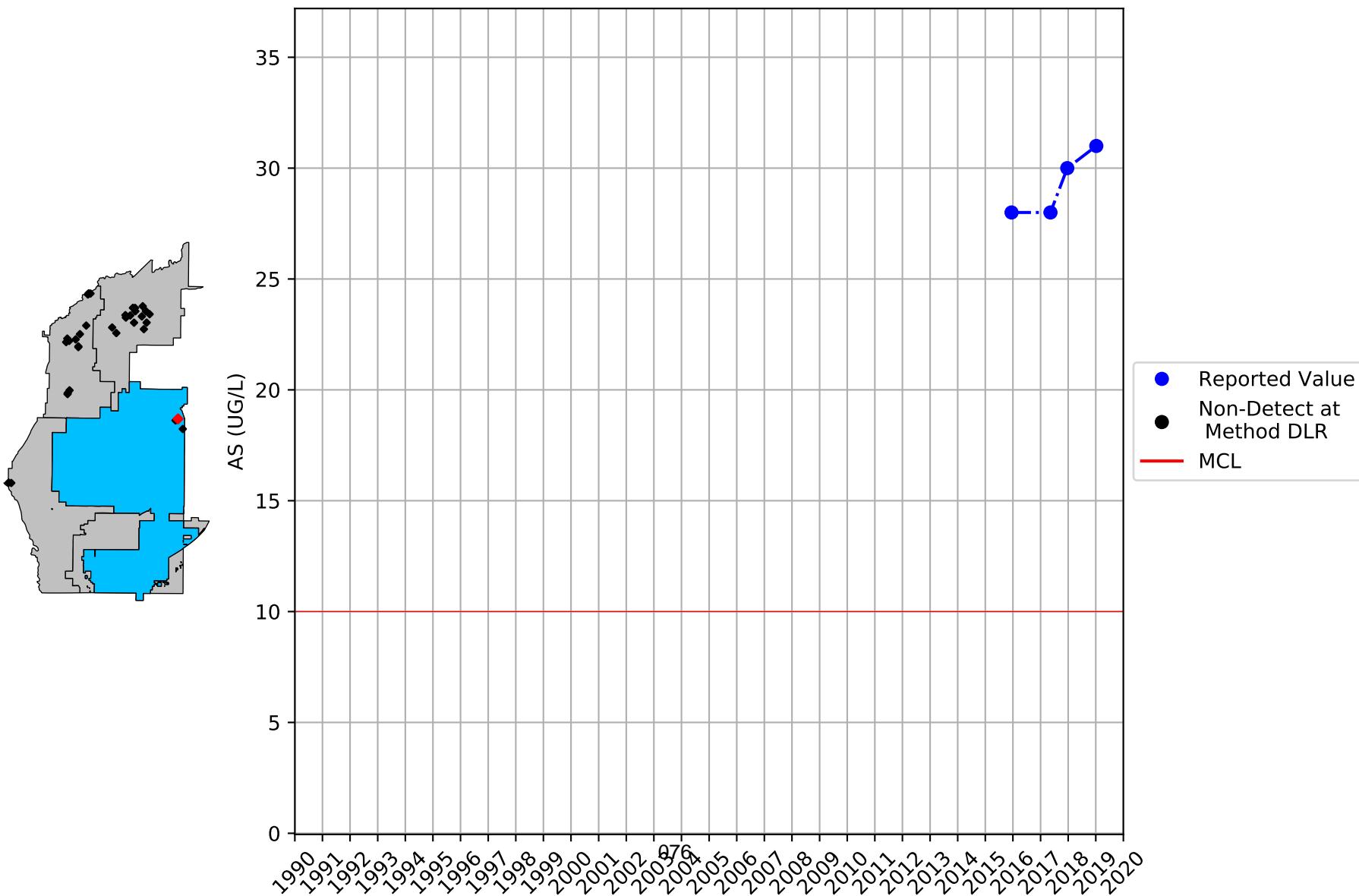
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El Rico GSA



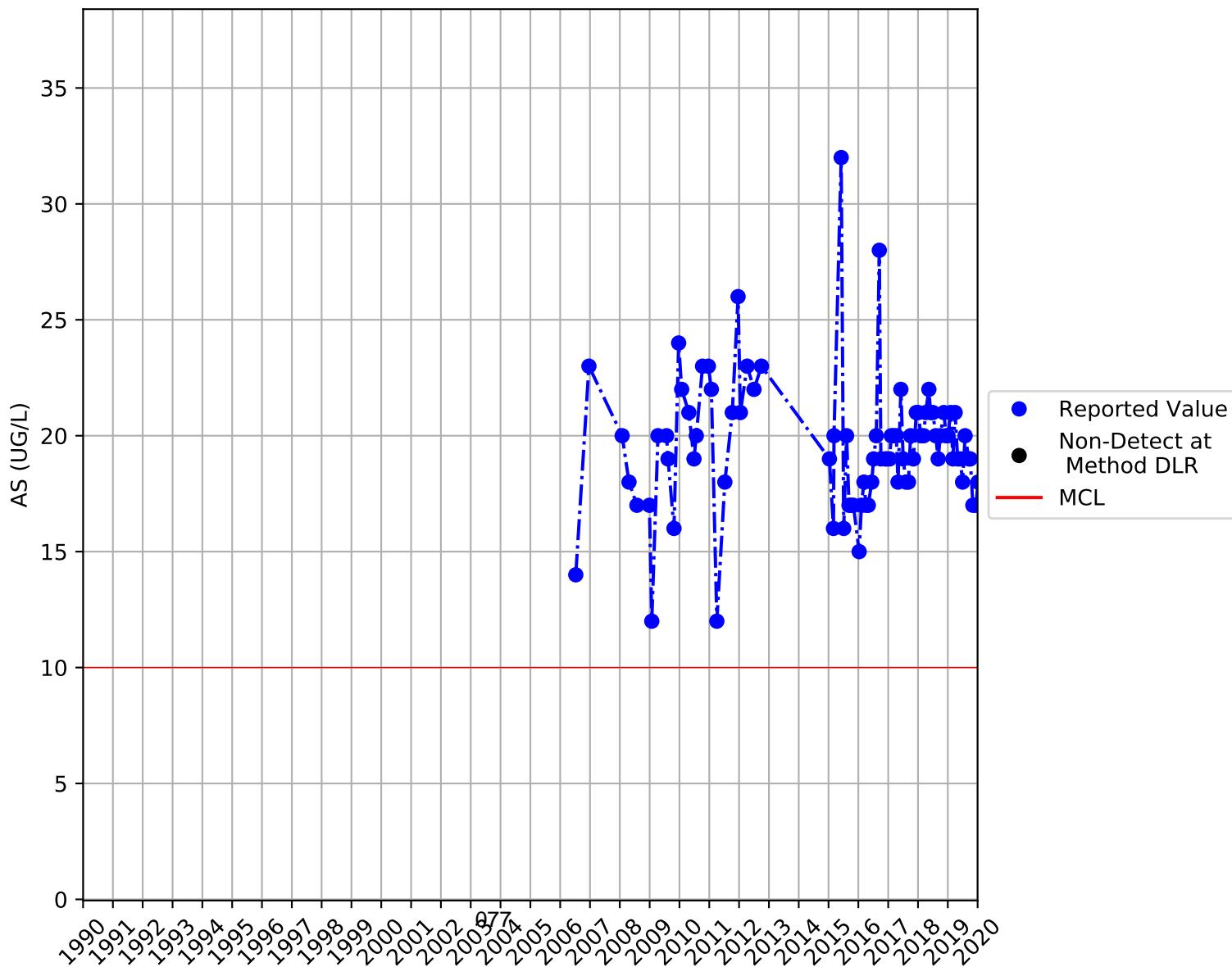
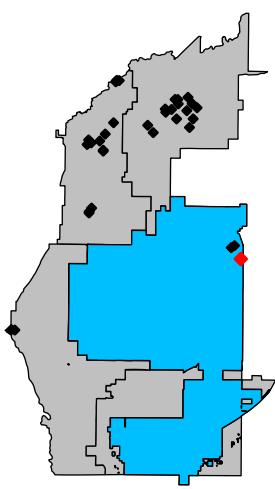
ARSENIC
1610004-018 WELL 09B - BEFORE AS TRT
El Rico GSA



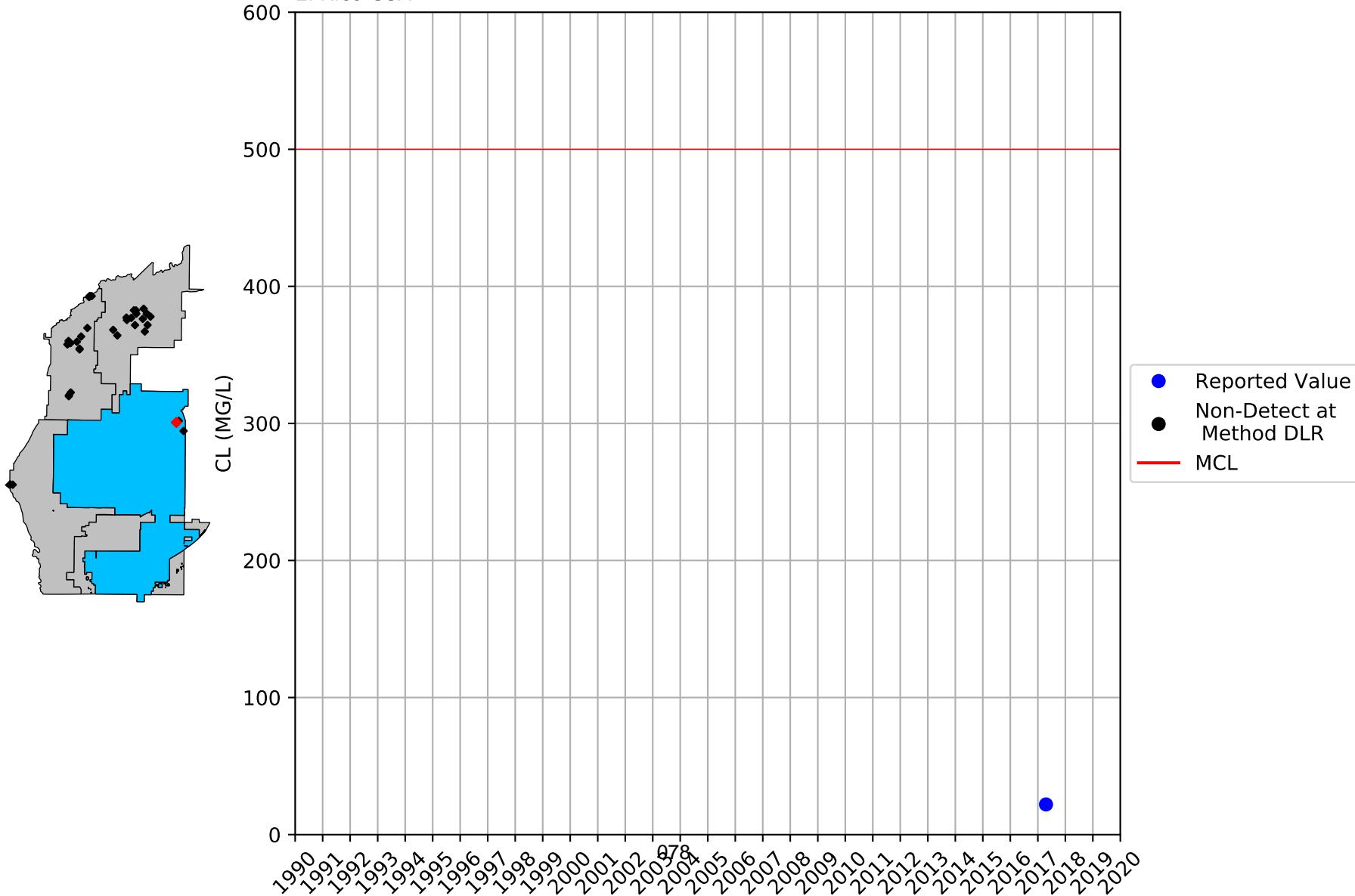
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El Rico GSA



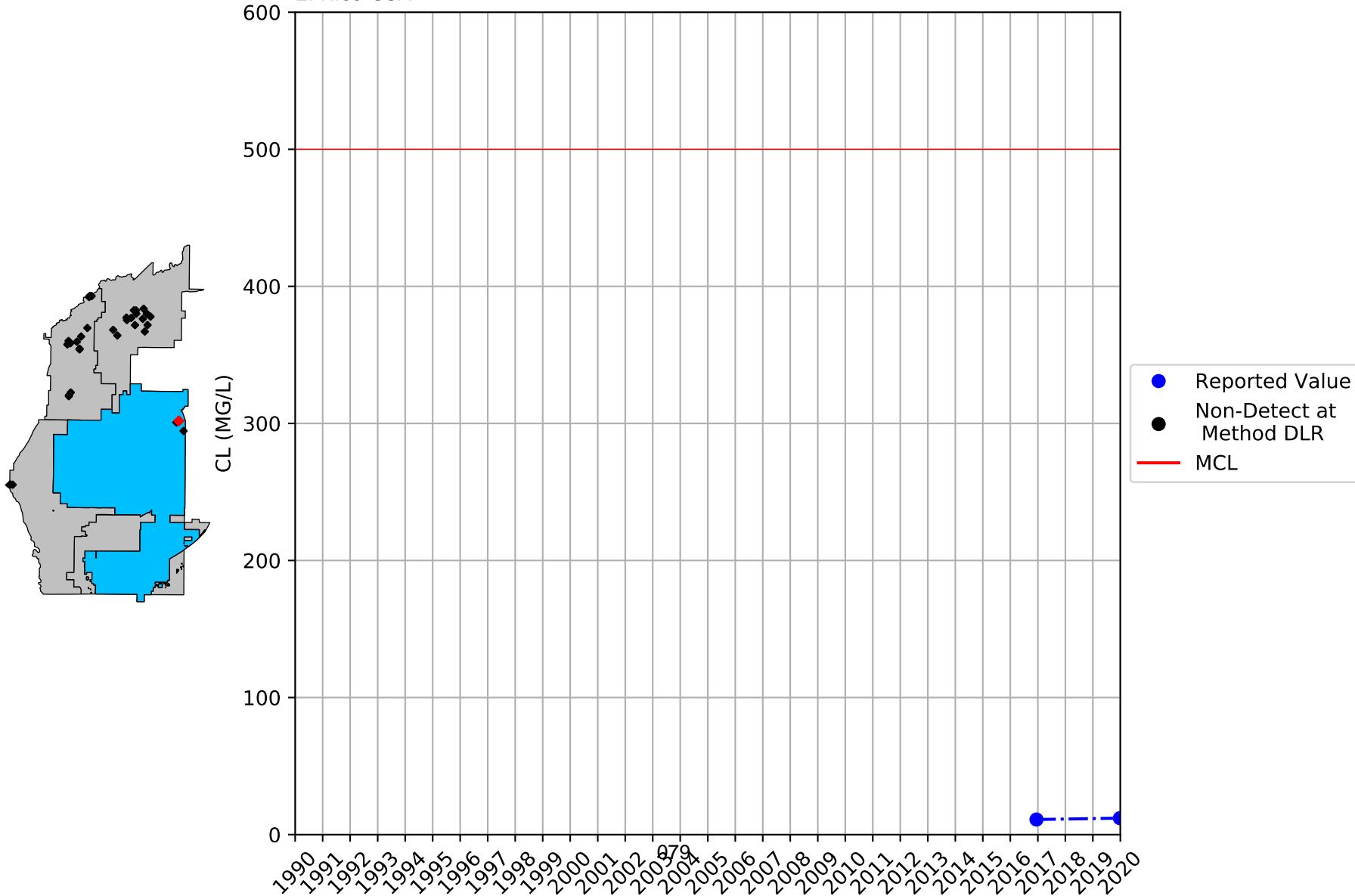
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1610004-026 WELL 04B - BEFORE AS TRT
El Rico GSA



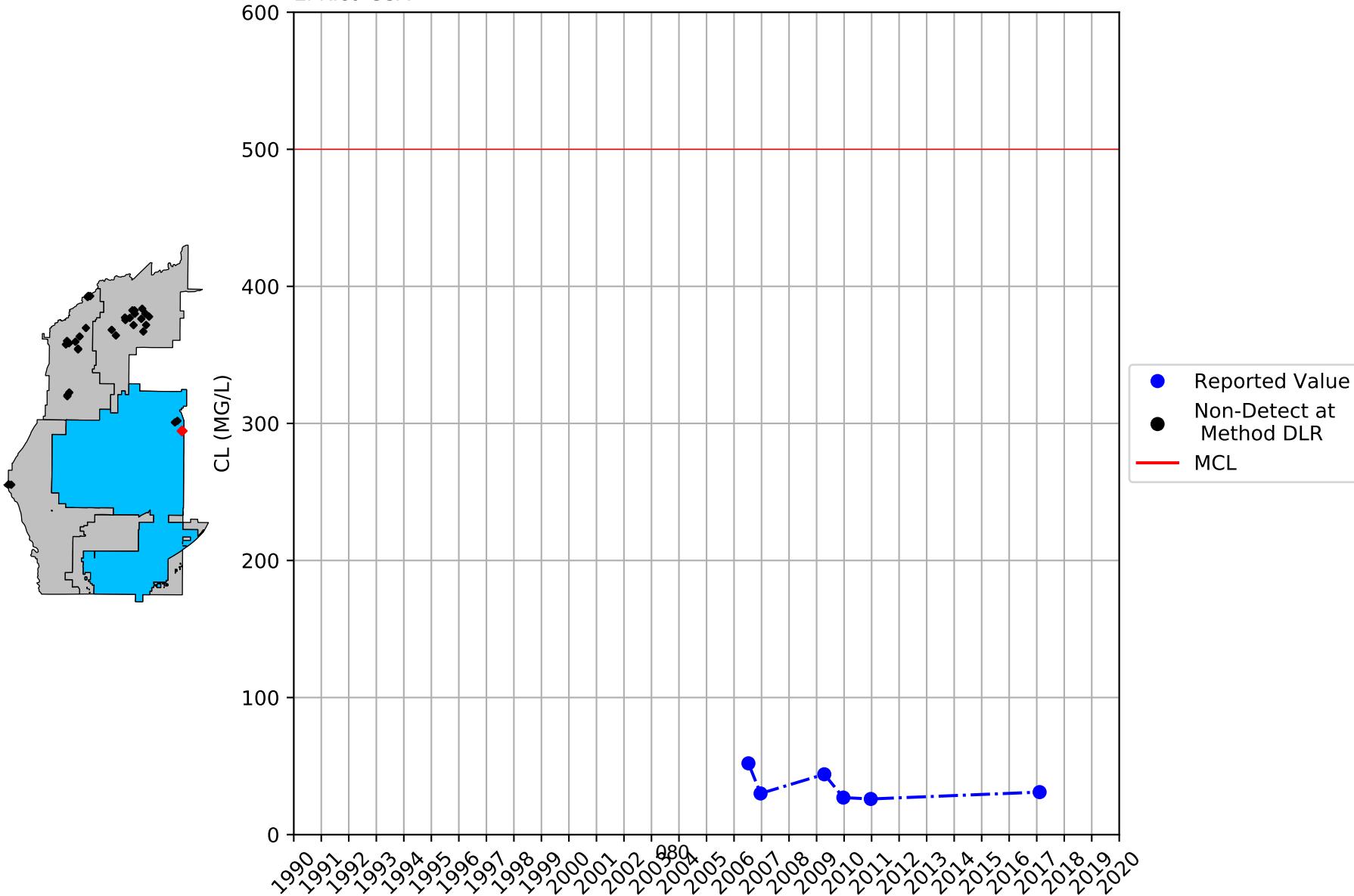
CHLORIDE
1610004-018 WELL 09B - BEFORE AS TRT
El Rico GSA



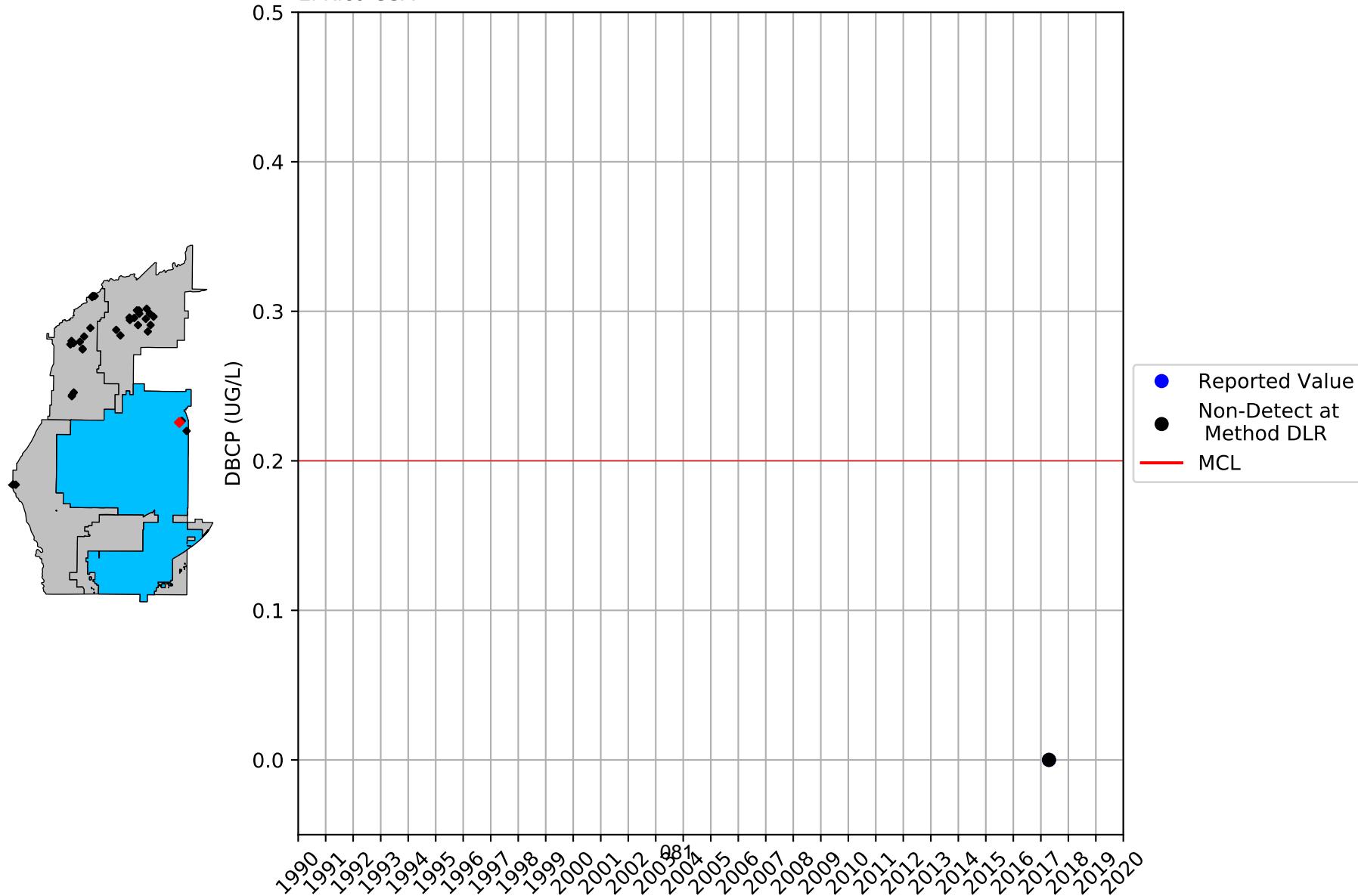
CHLORIDE
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El Rico GSA



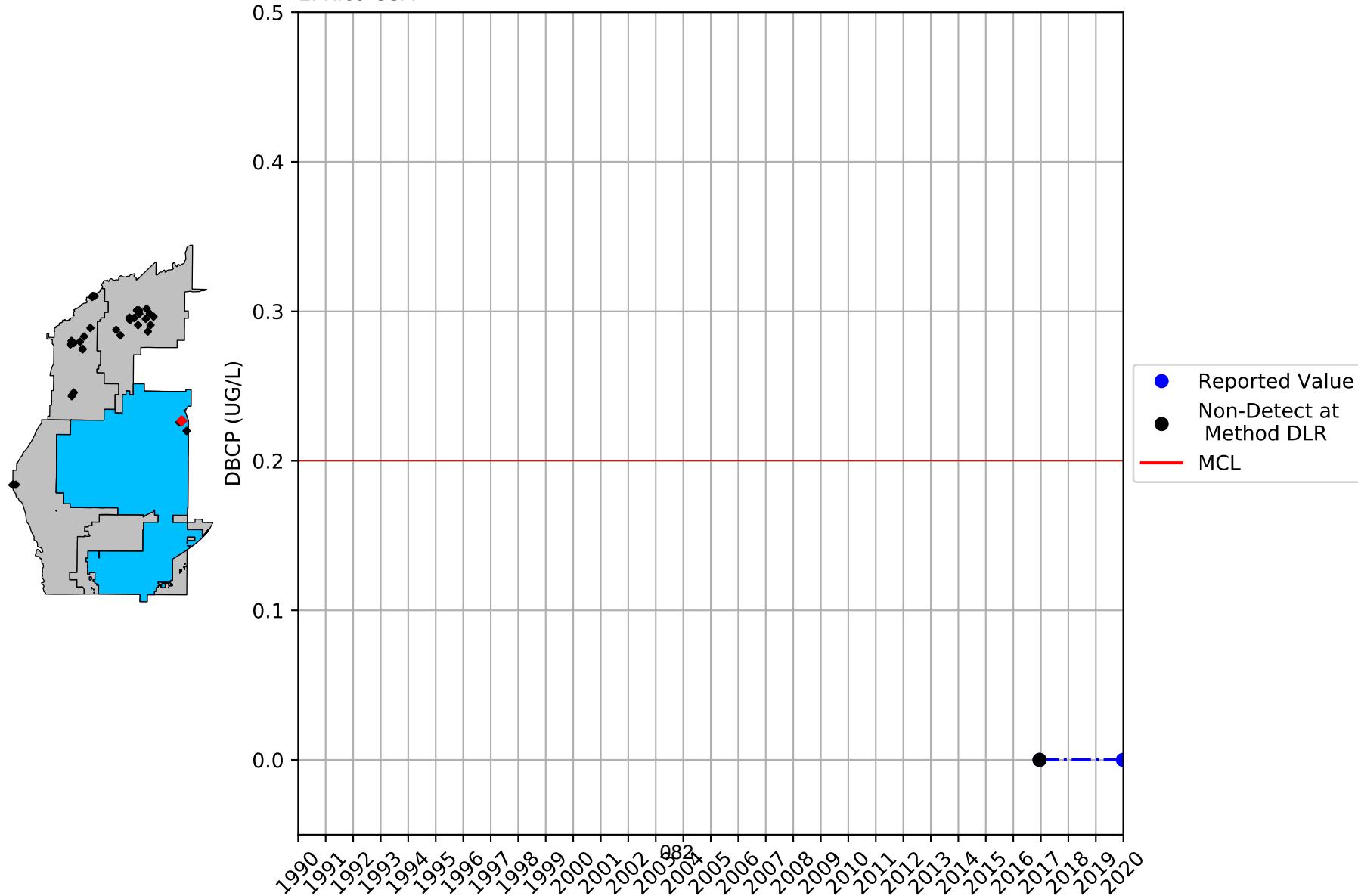
CHLORIDE
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El Rico GSA



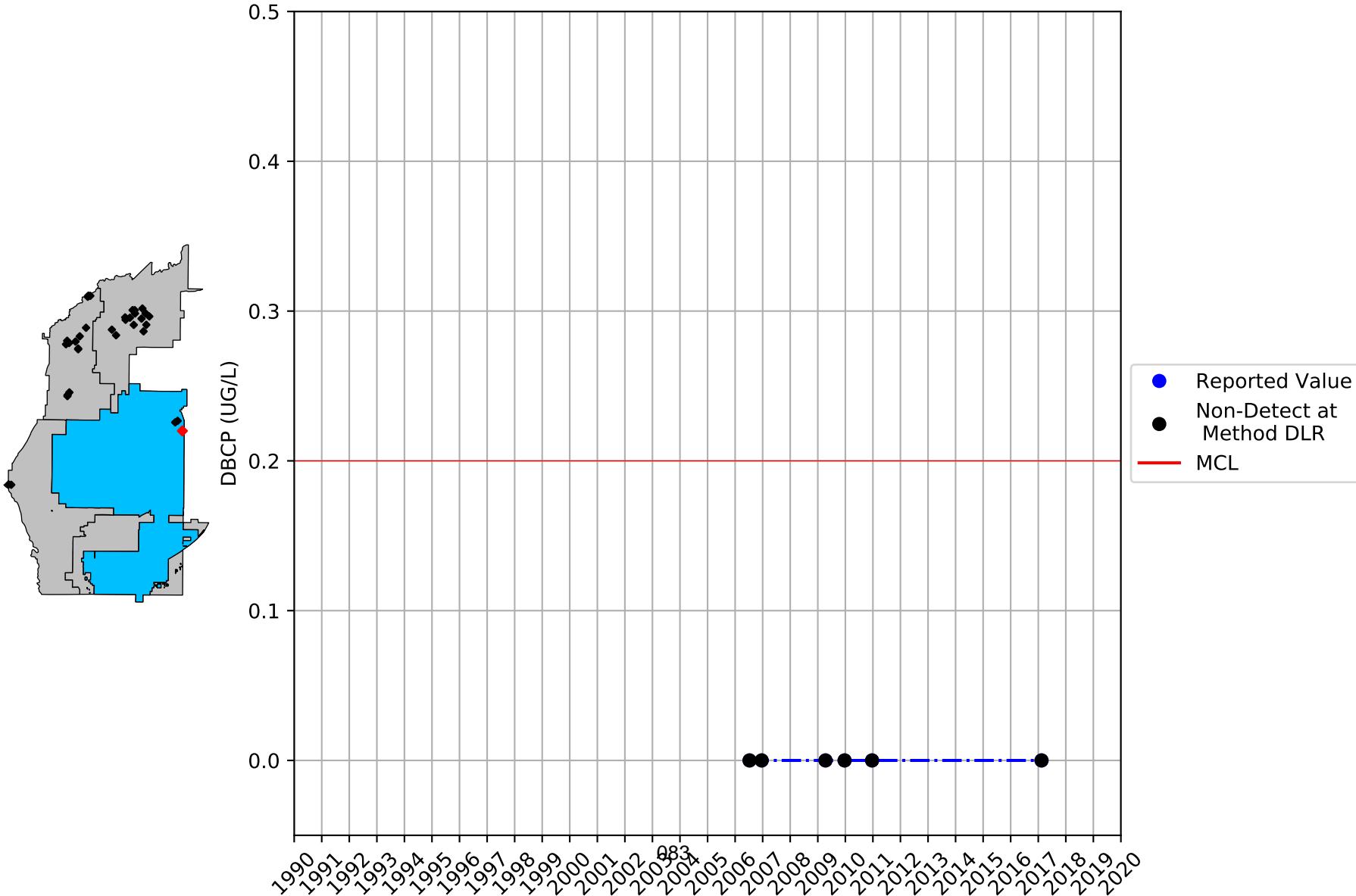
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El Rico GSA



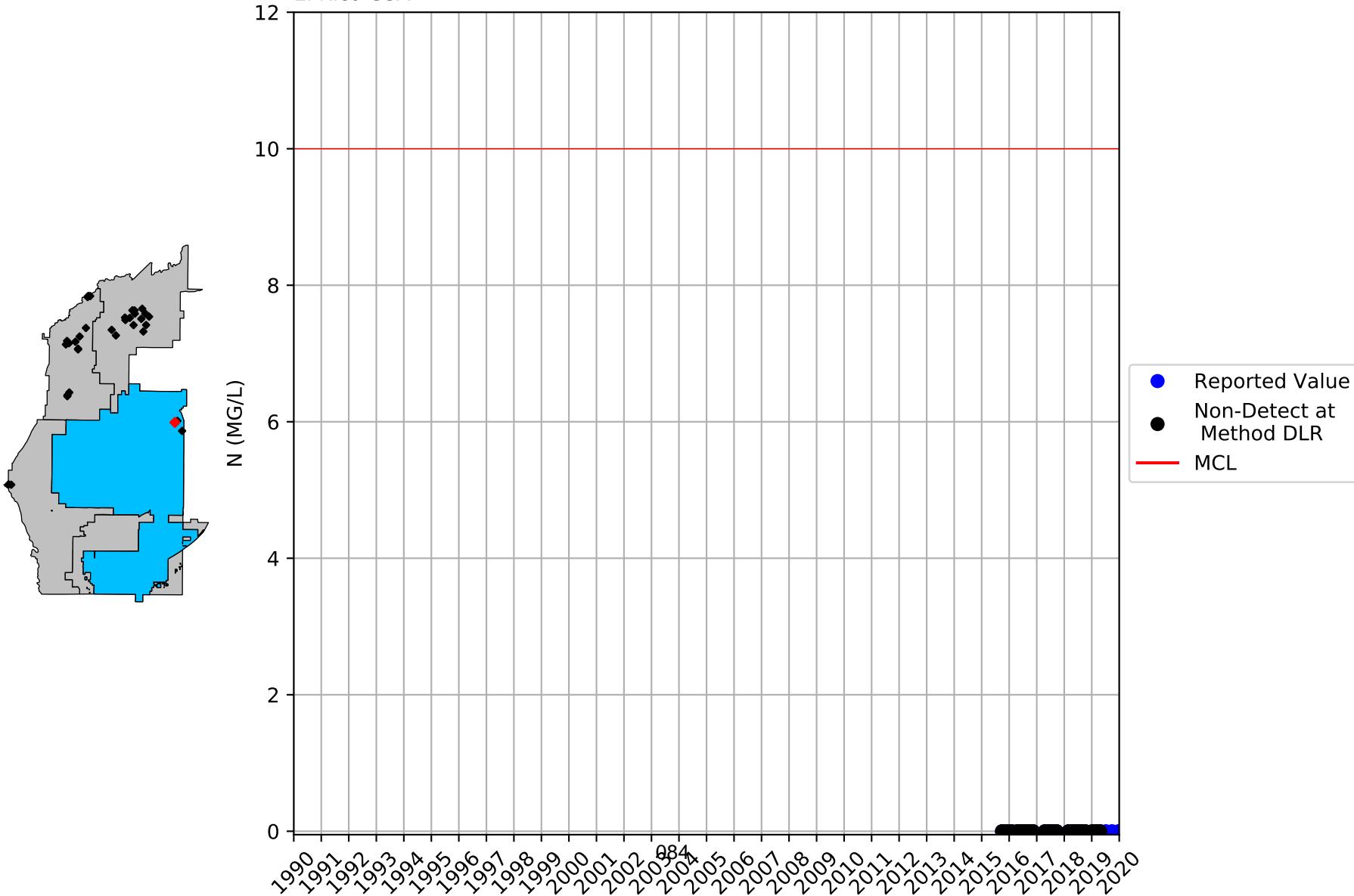
DIBROMOCHLOROPROPANE (DBCP)
1610004-019 WELL 08B - BEFORE AS TRT
El Rico GSA



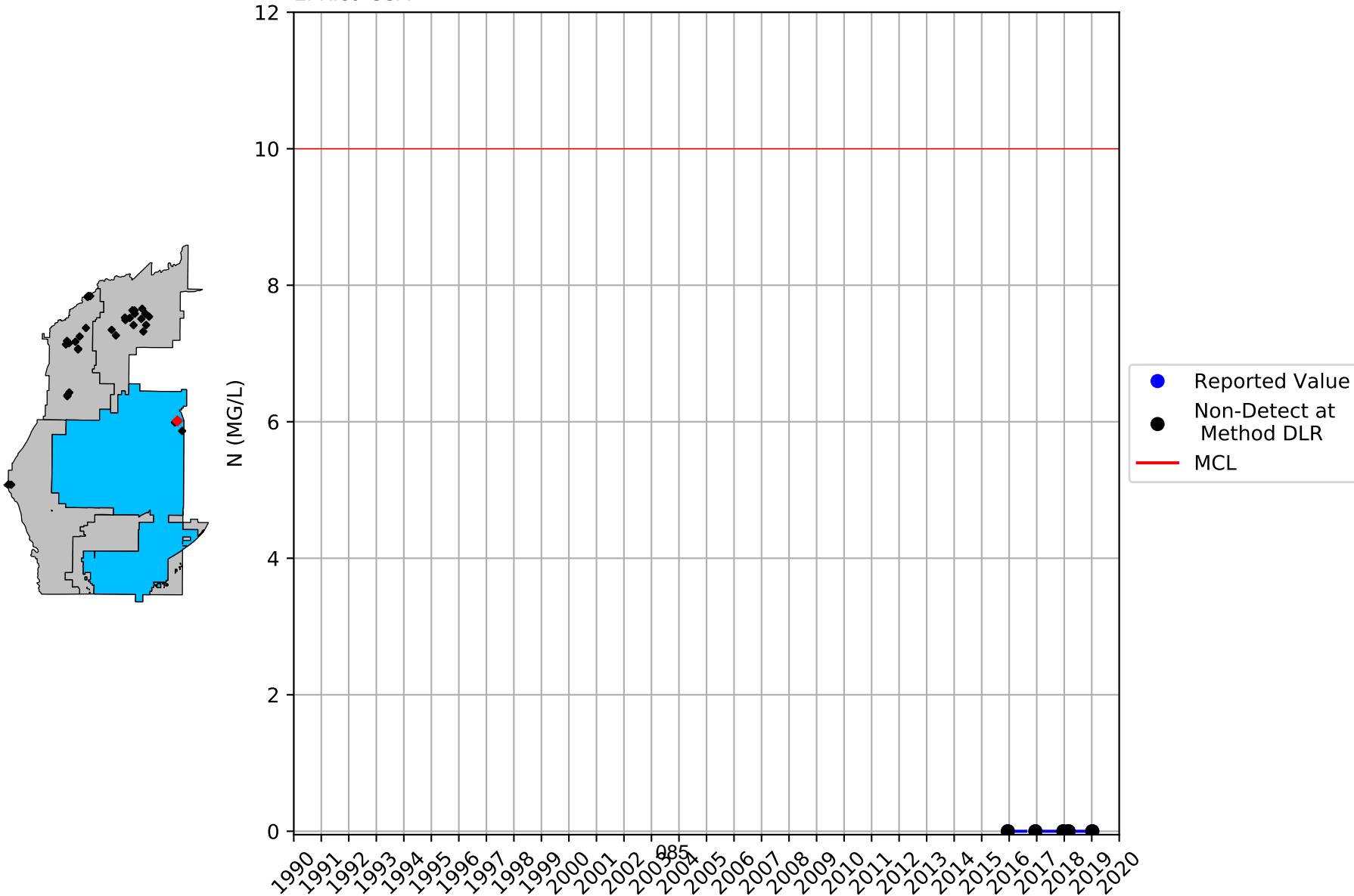
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1610004-026 WELL 04B - BEFORE AS TRT
El Rico GSA



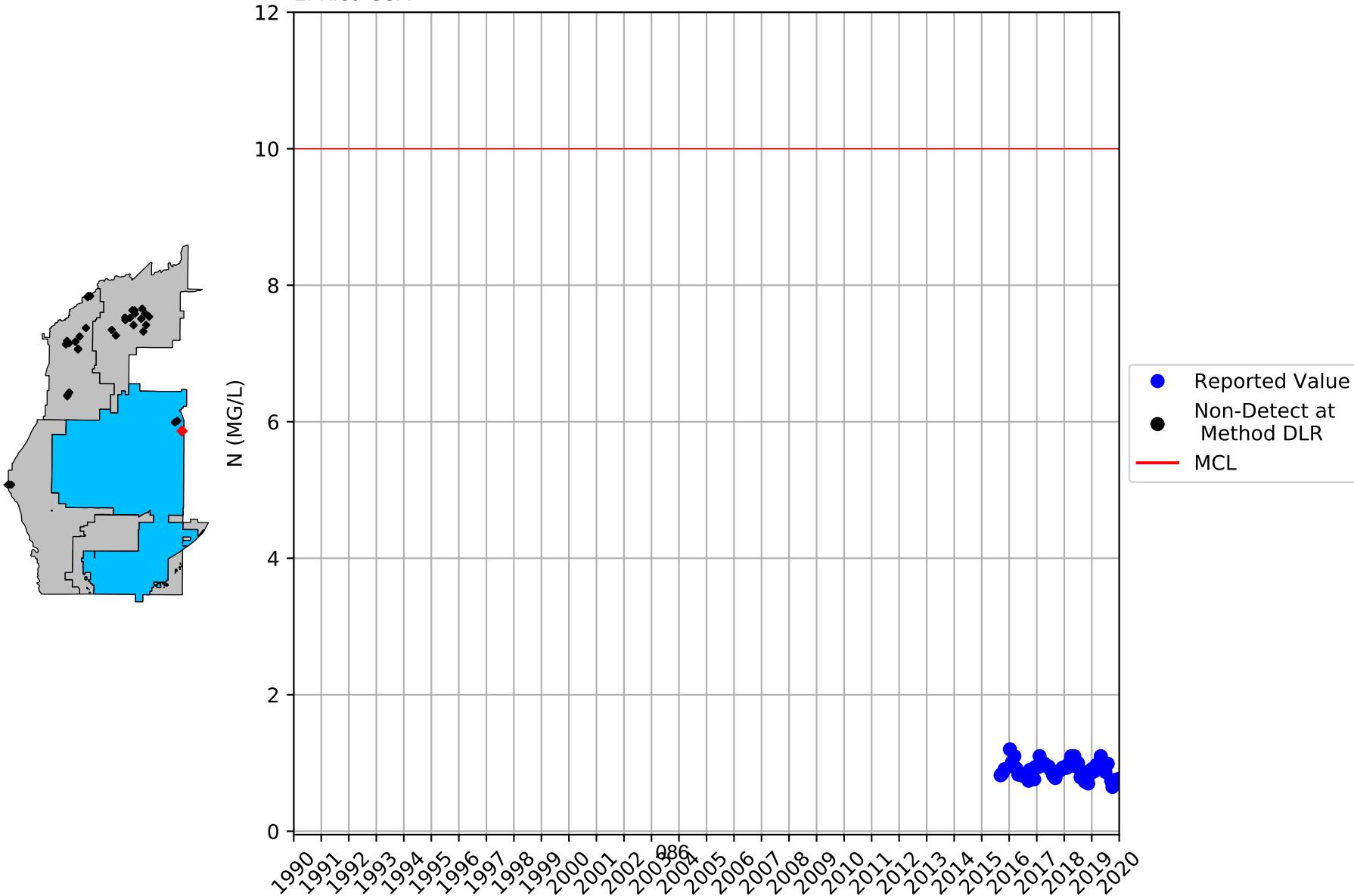
NITRATE (AS N)
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El Rico GSA



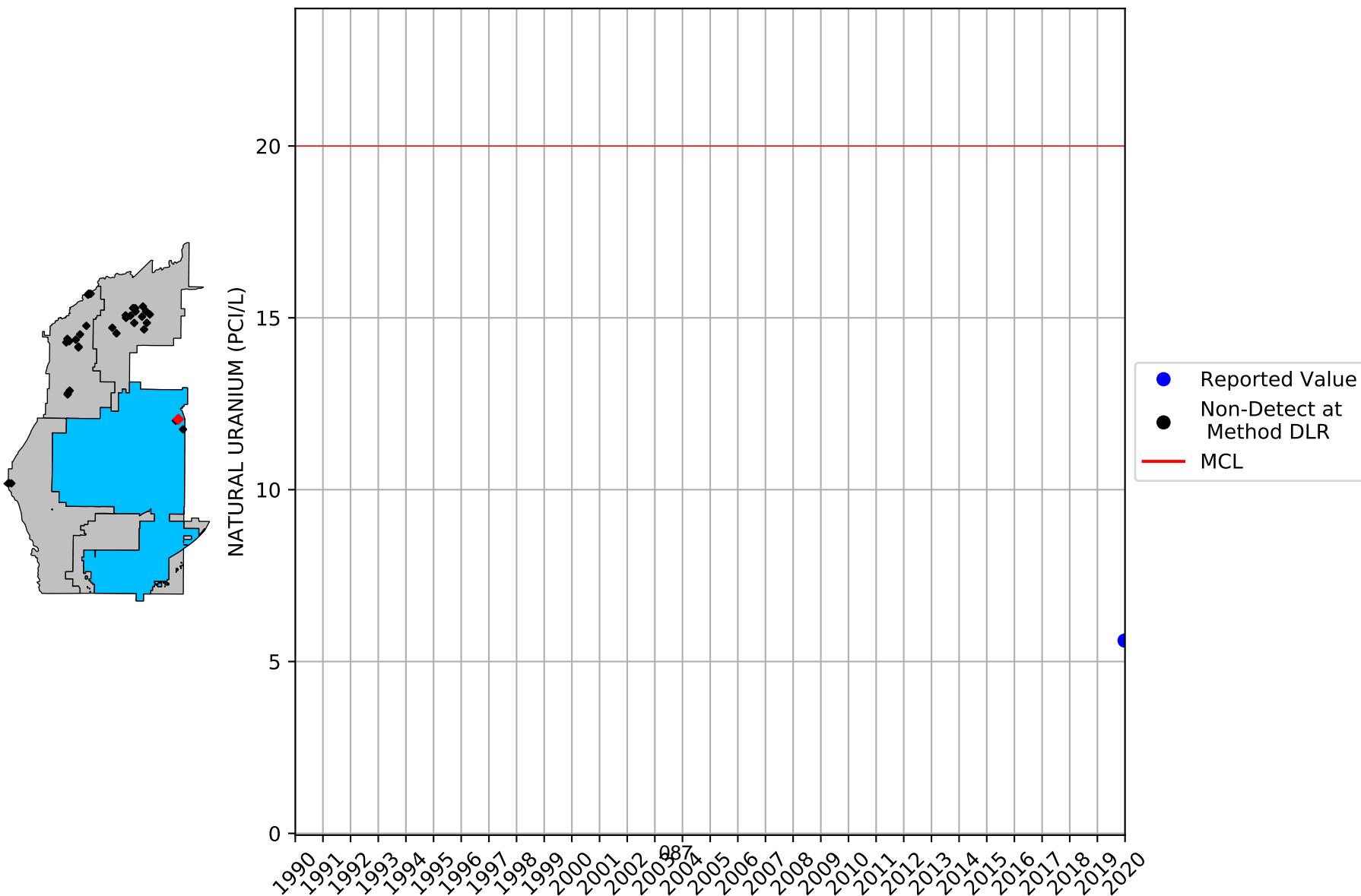
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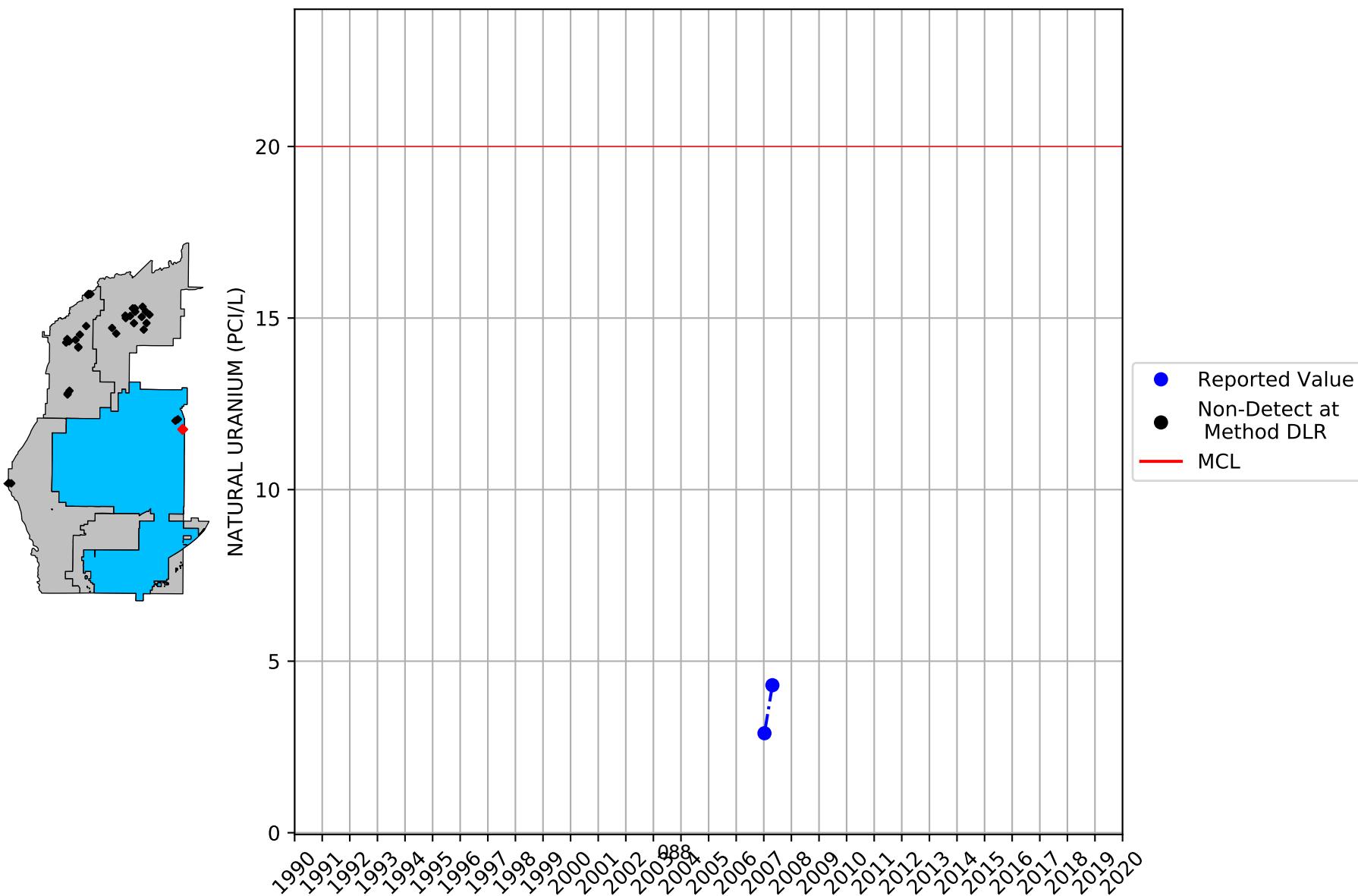
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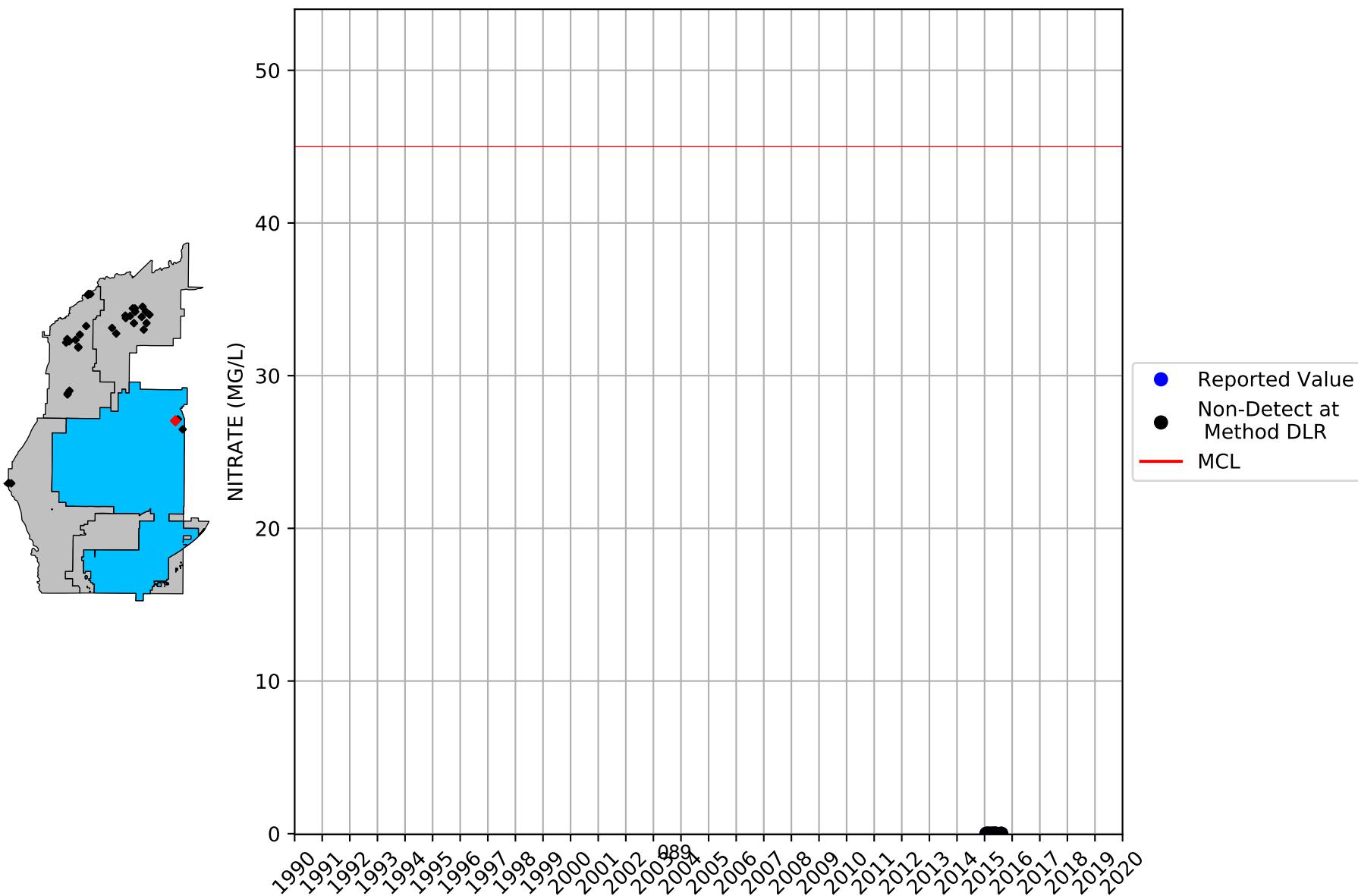
URANIUM (PCI/L)
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El Rico GSA



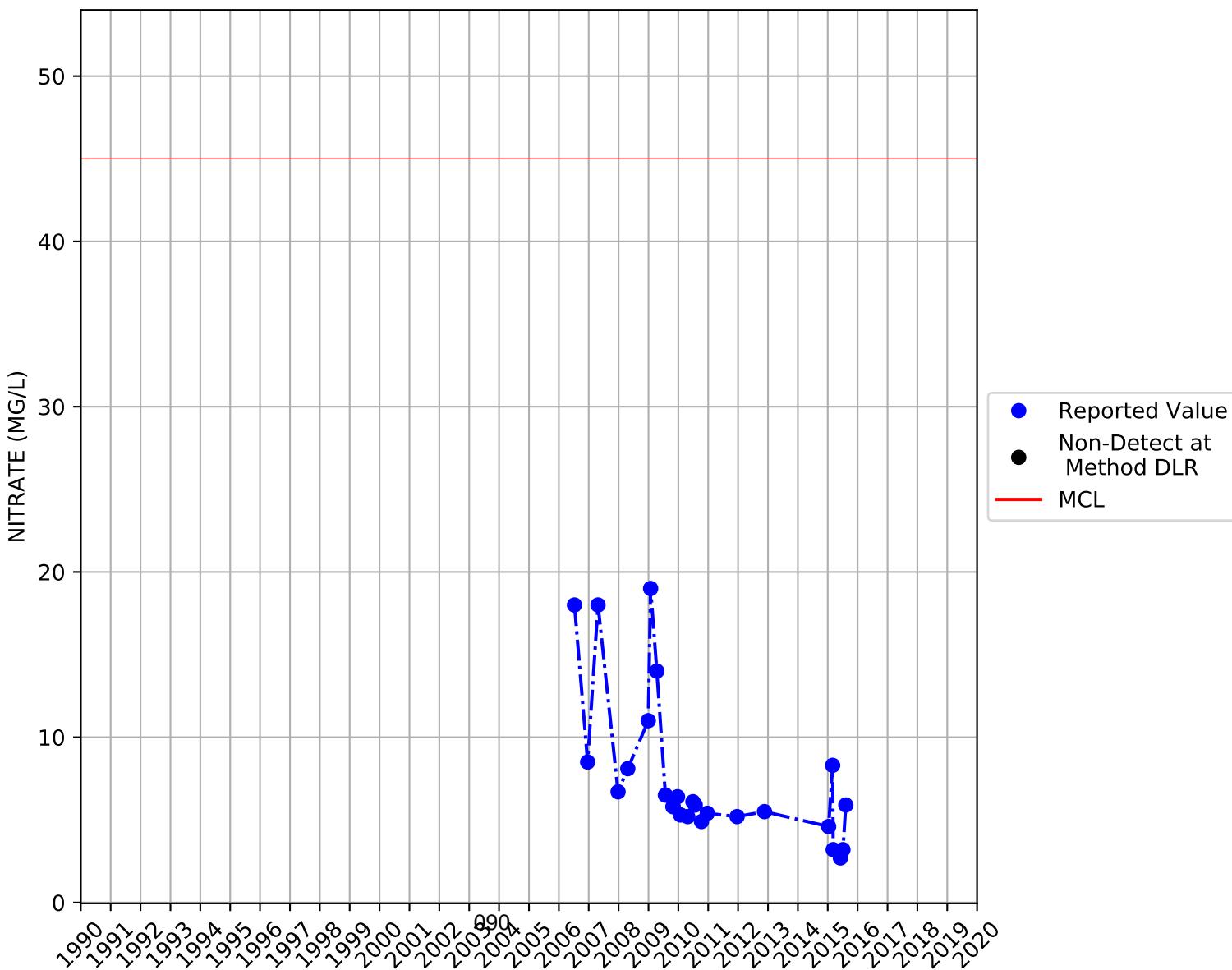
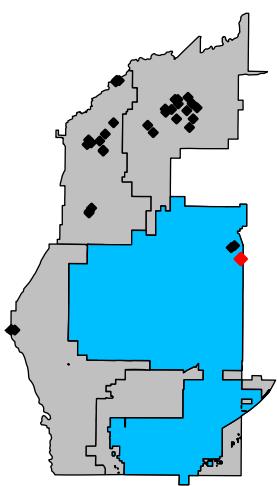
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El Rico GSA



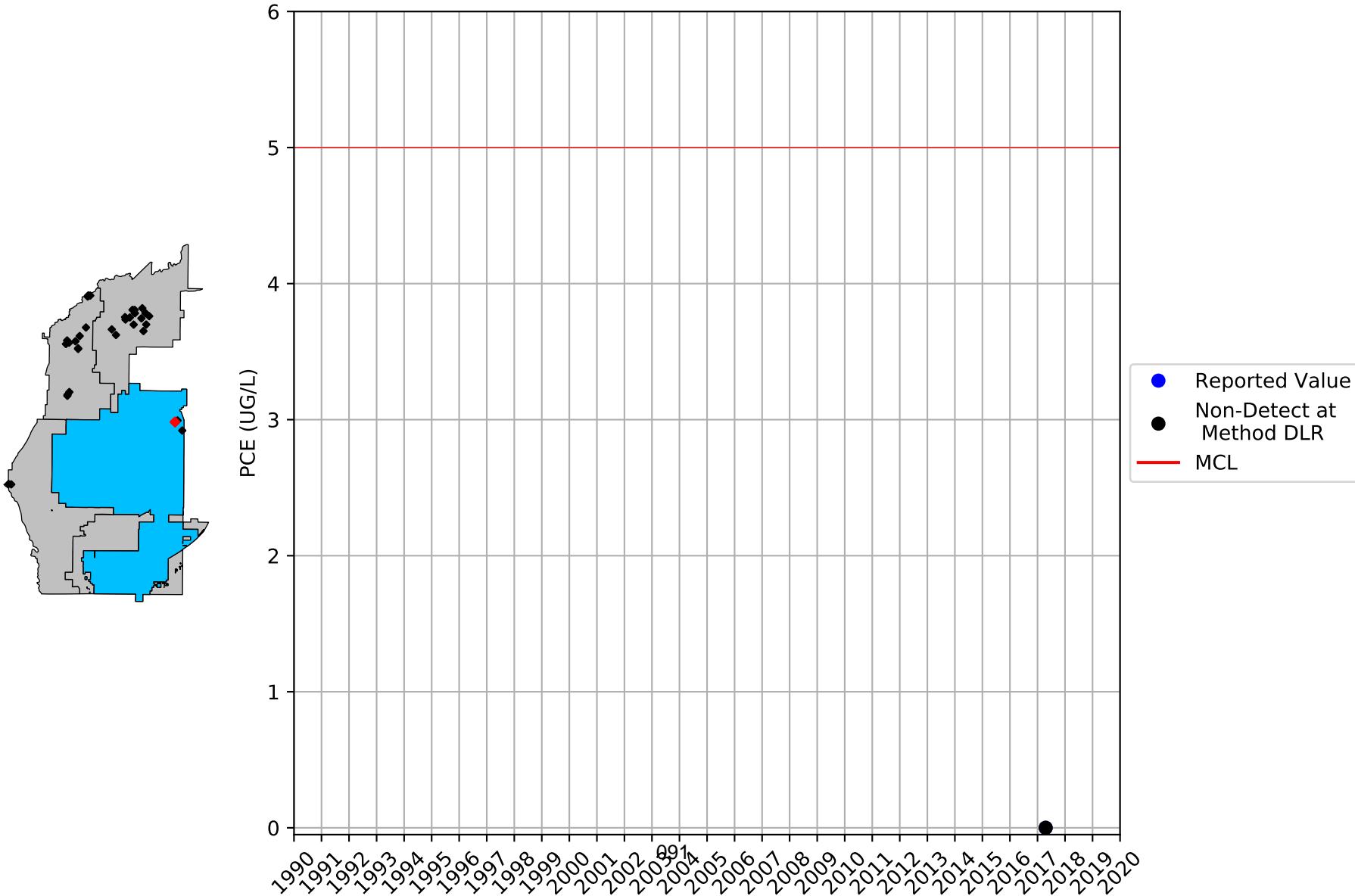
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El Rico GSA



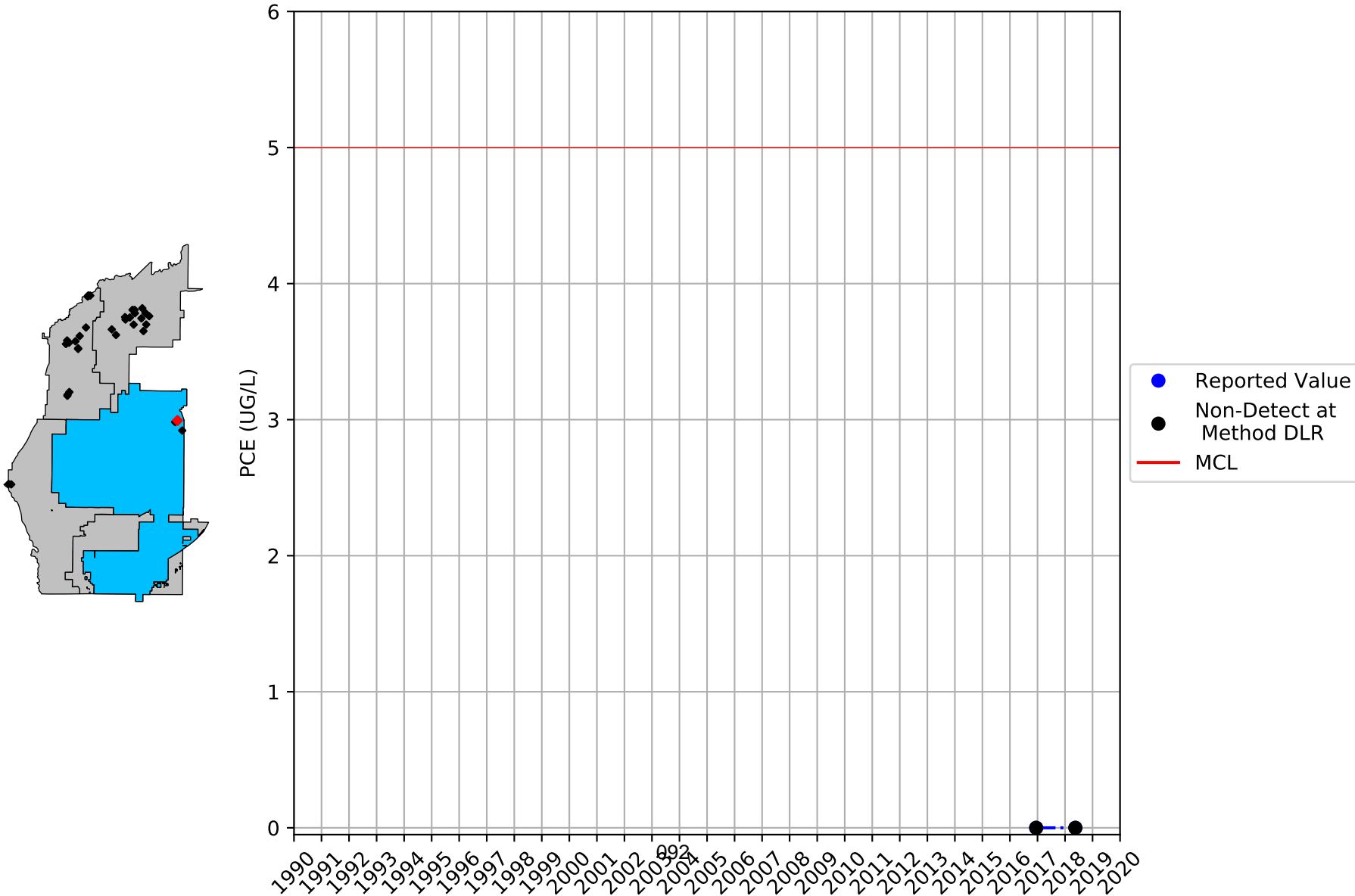
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El Rico GSA



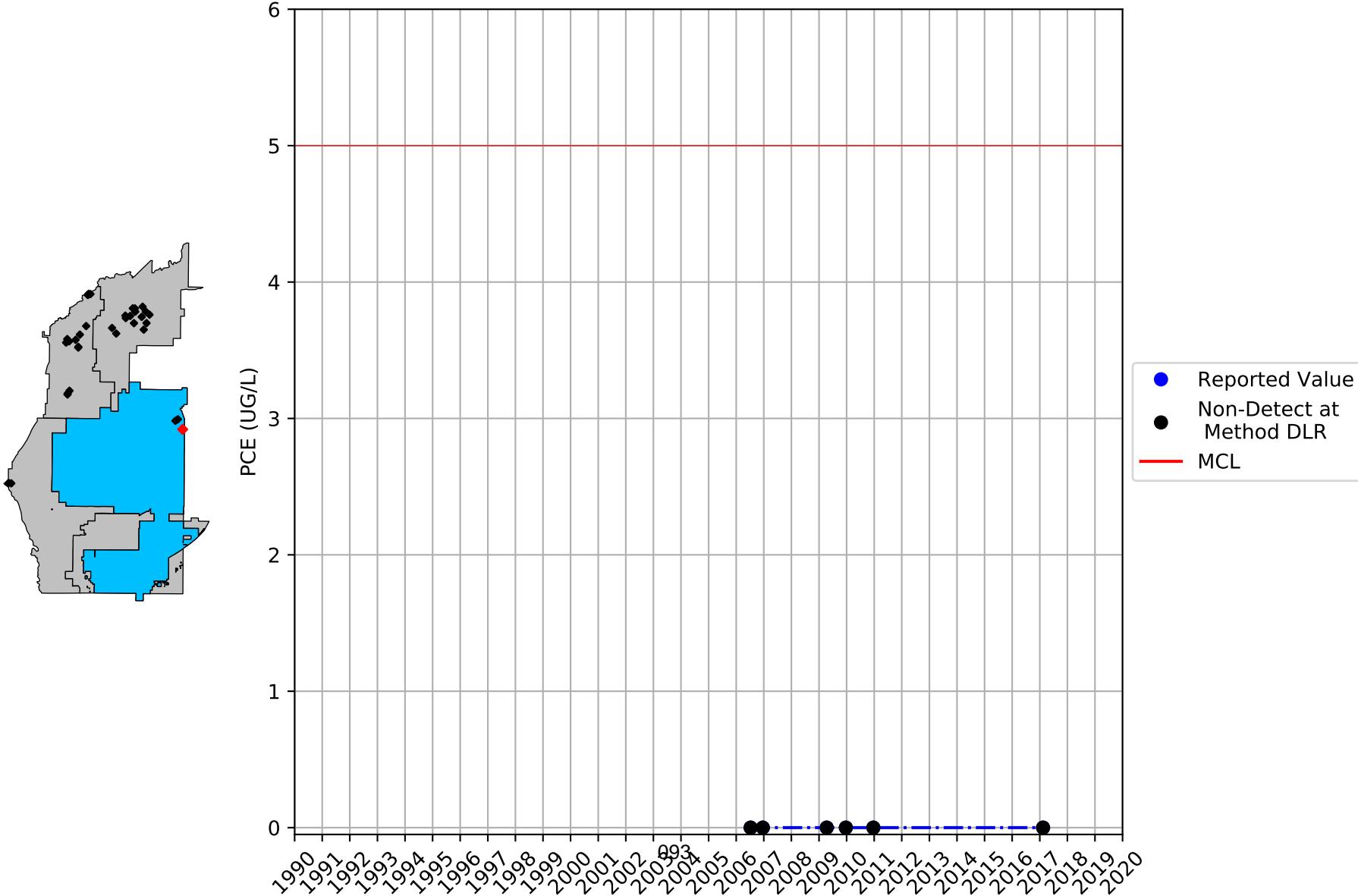
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1610004-018 WELL 09B - BEFORE AS TRT
El Rico GSA



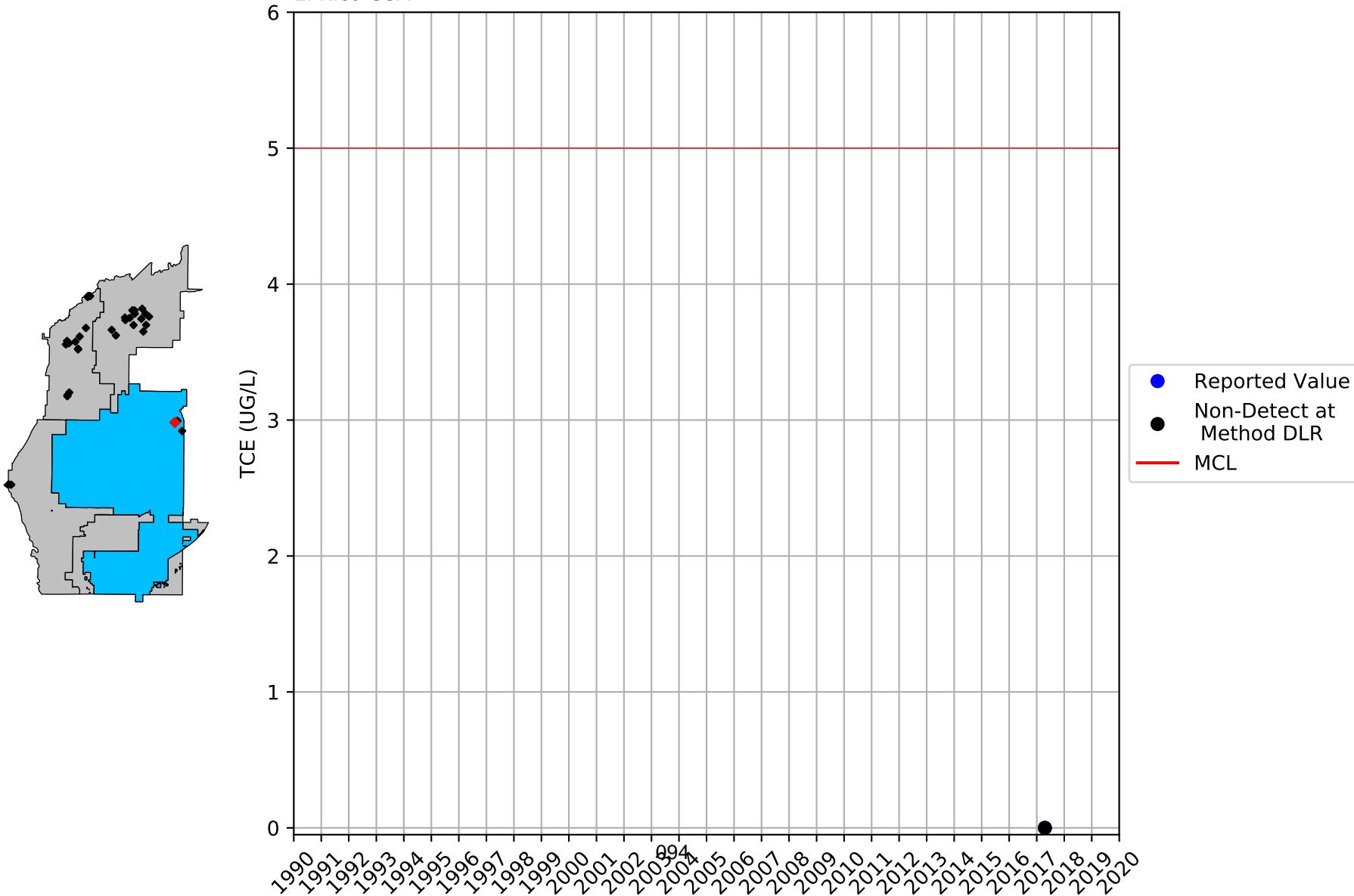
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El Rico GSA



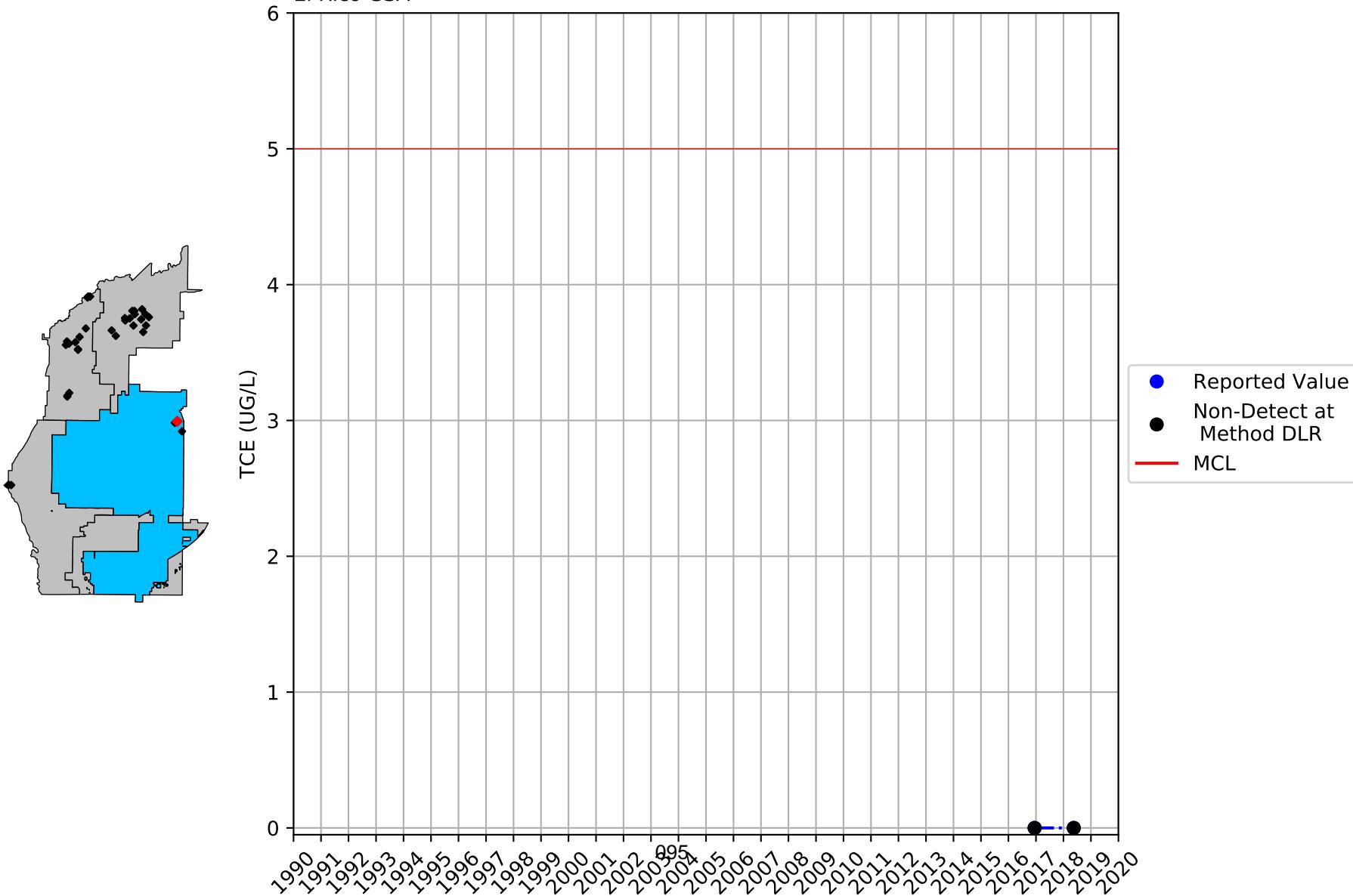
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El Rico GSA



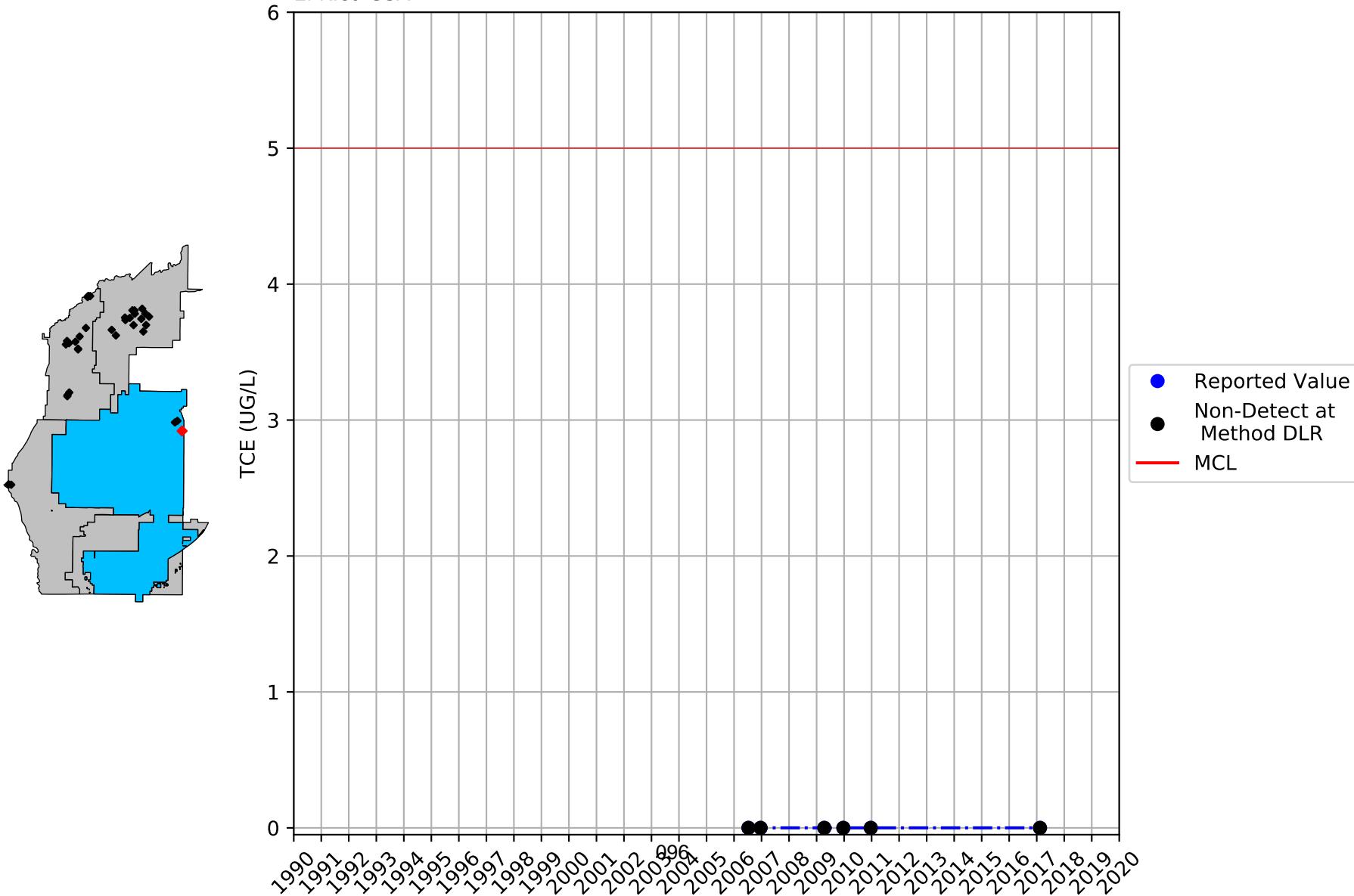
TRICHLOROETHYLENE
1610004-018 WELL 09B - BEFORE AS TRT
El Rico GSA



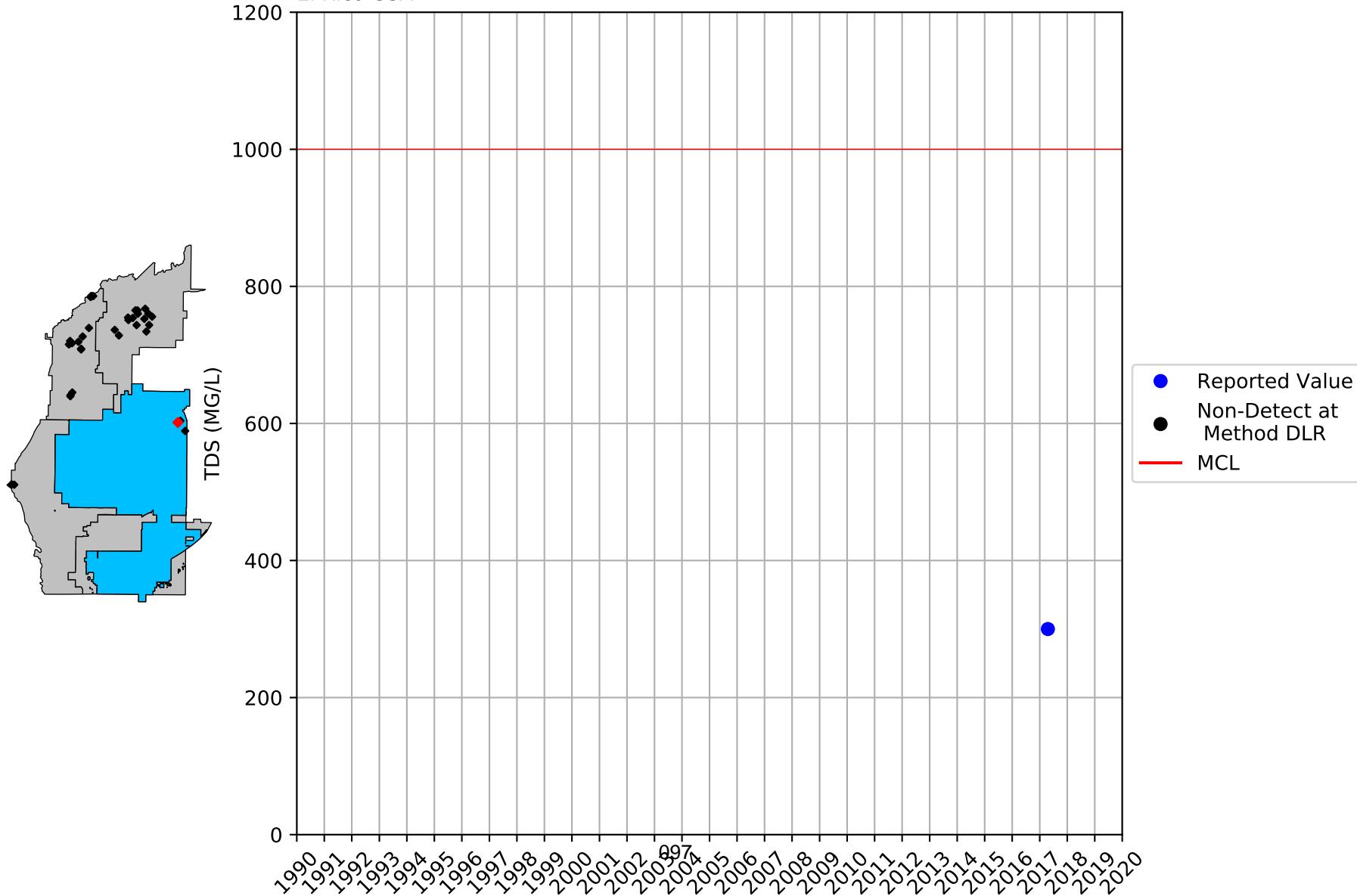
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El Rico GSA



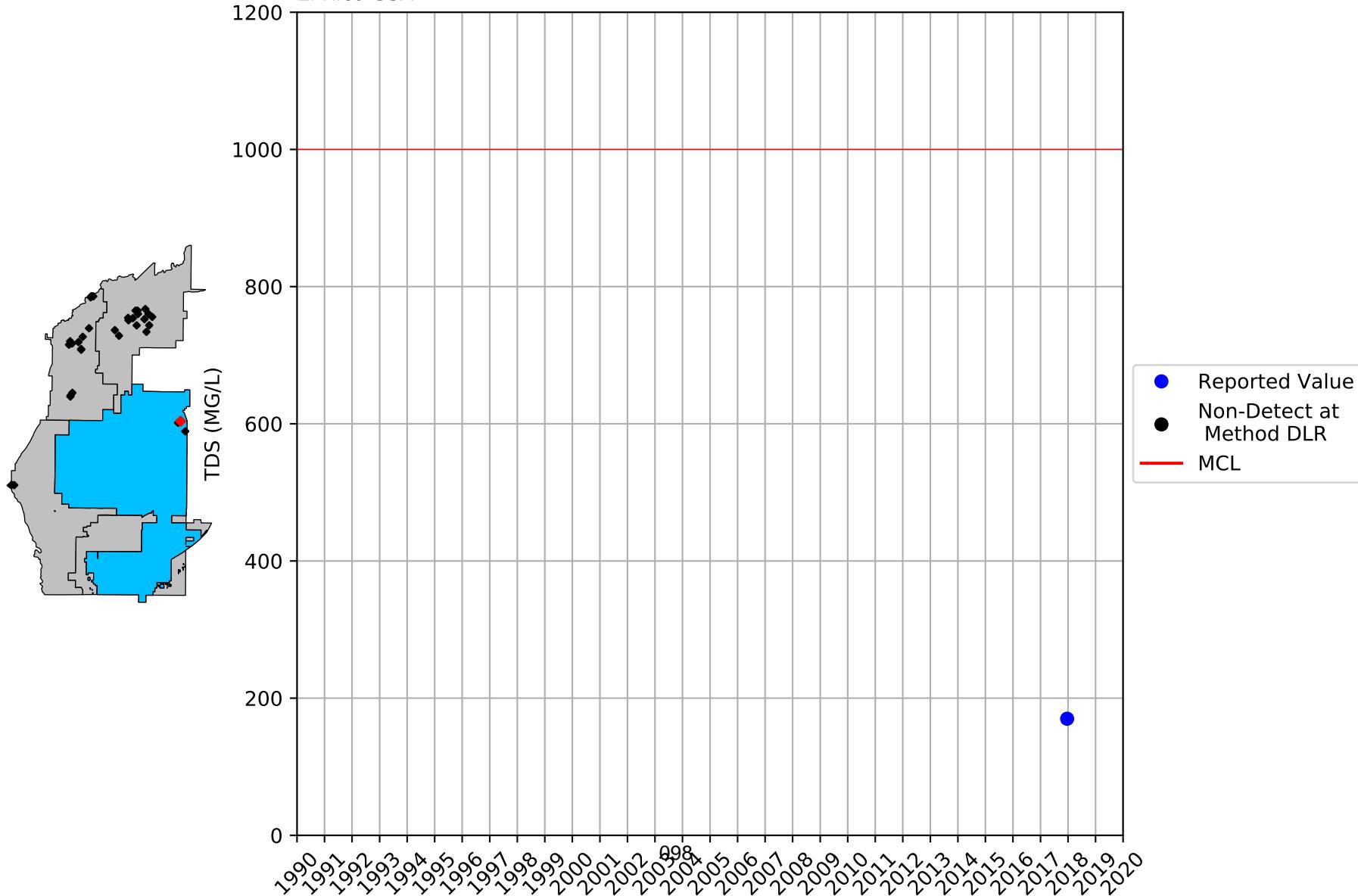
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El Rico GSA



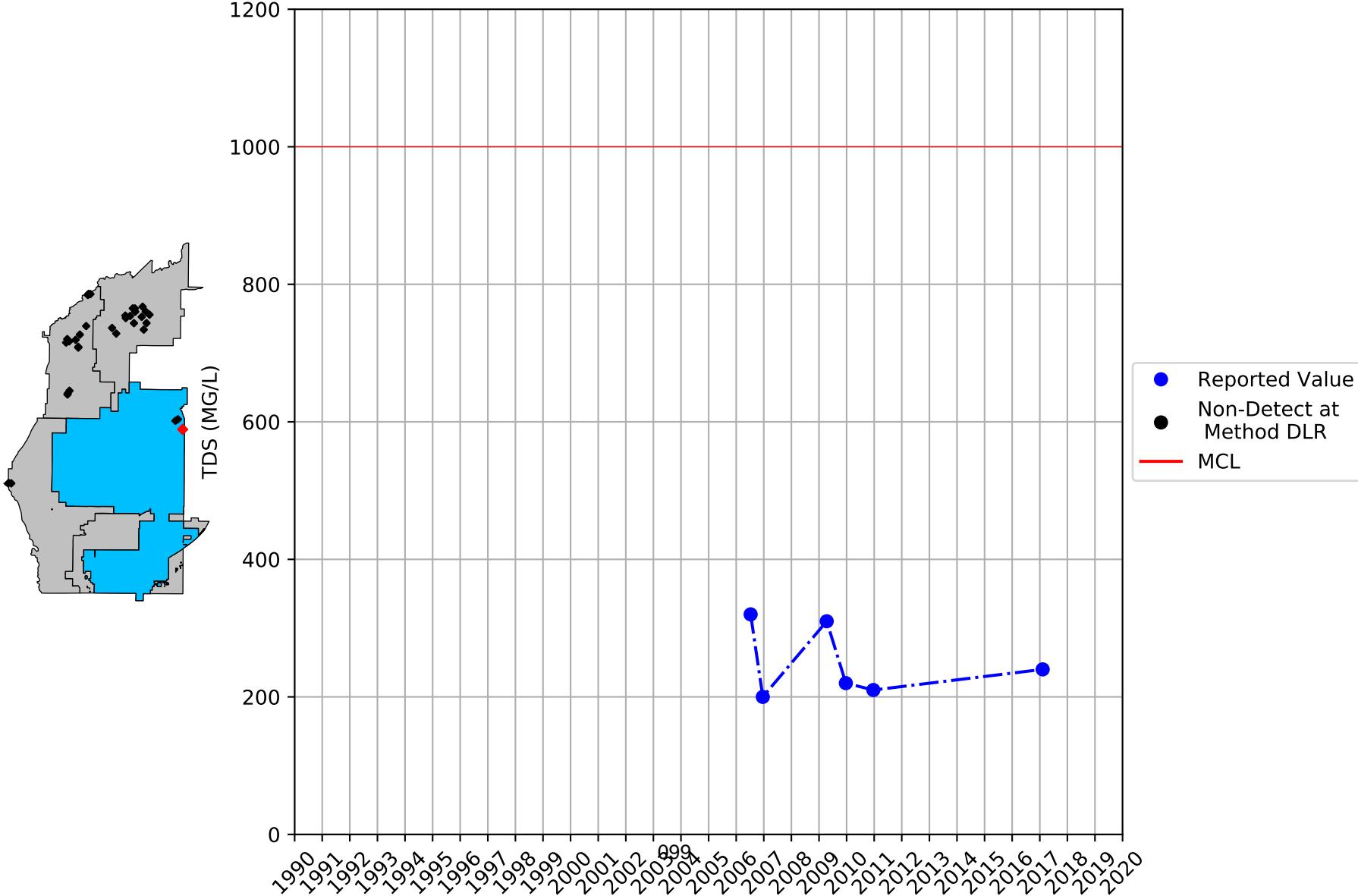
TOTAL DISSOLVED SOLIDS
1610004-018 WELL 09B - BEFORE AS TRT
El Rico GSA



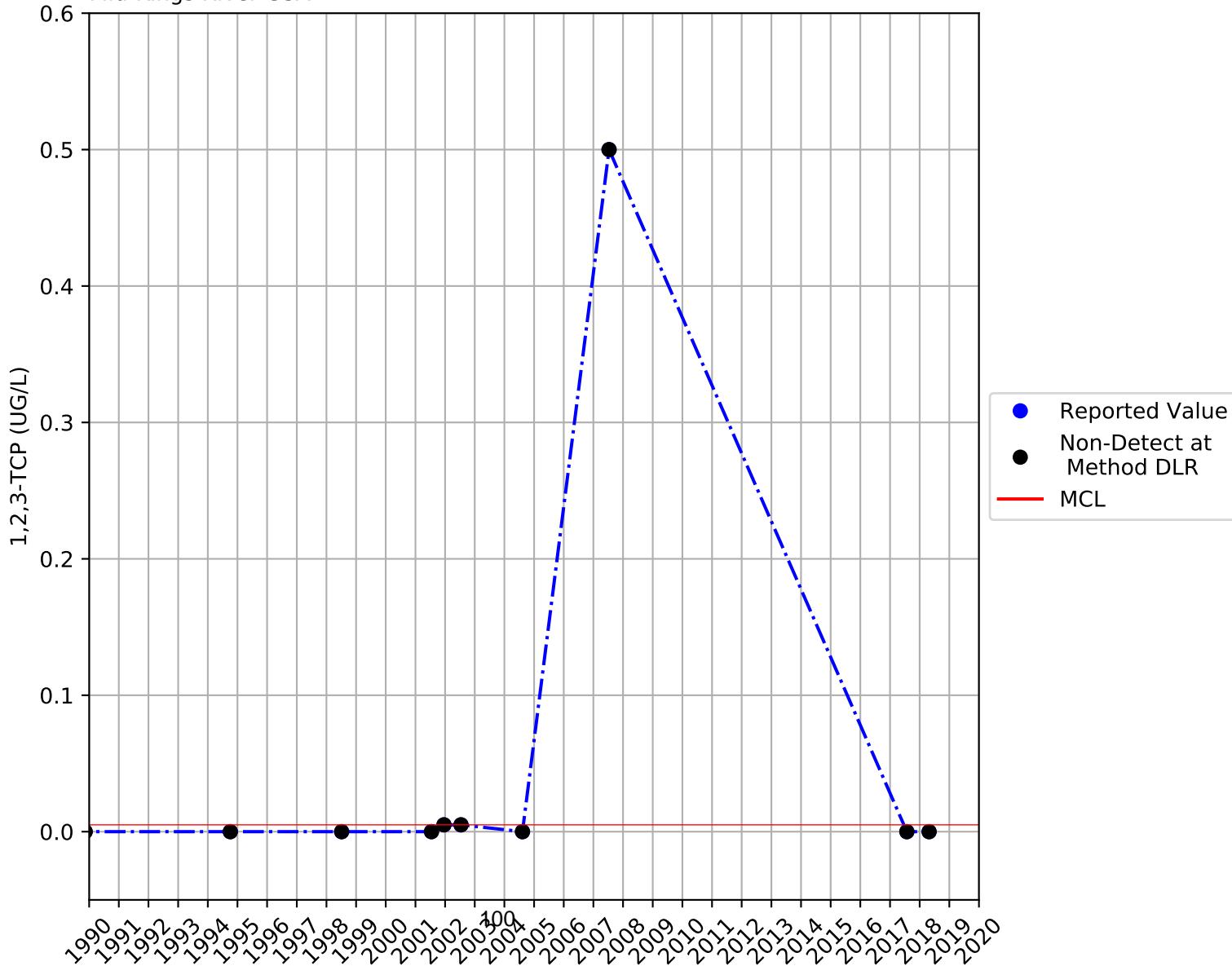
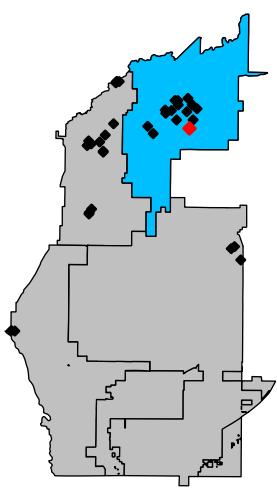
TOTAL DISSOLVED SOLIDS
1610004-019 WELL 08B - BEFORE AS TRT
El Rico GSA



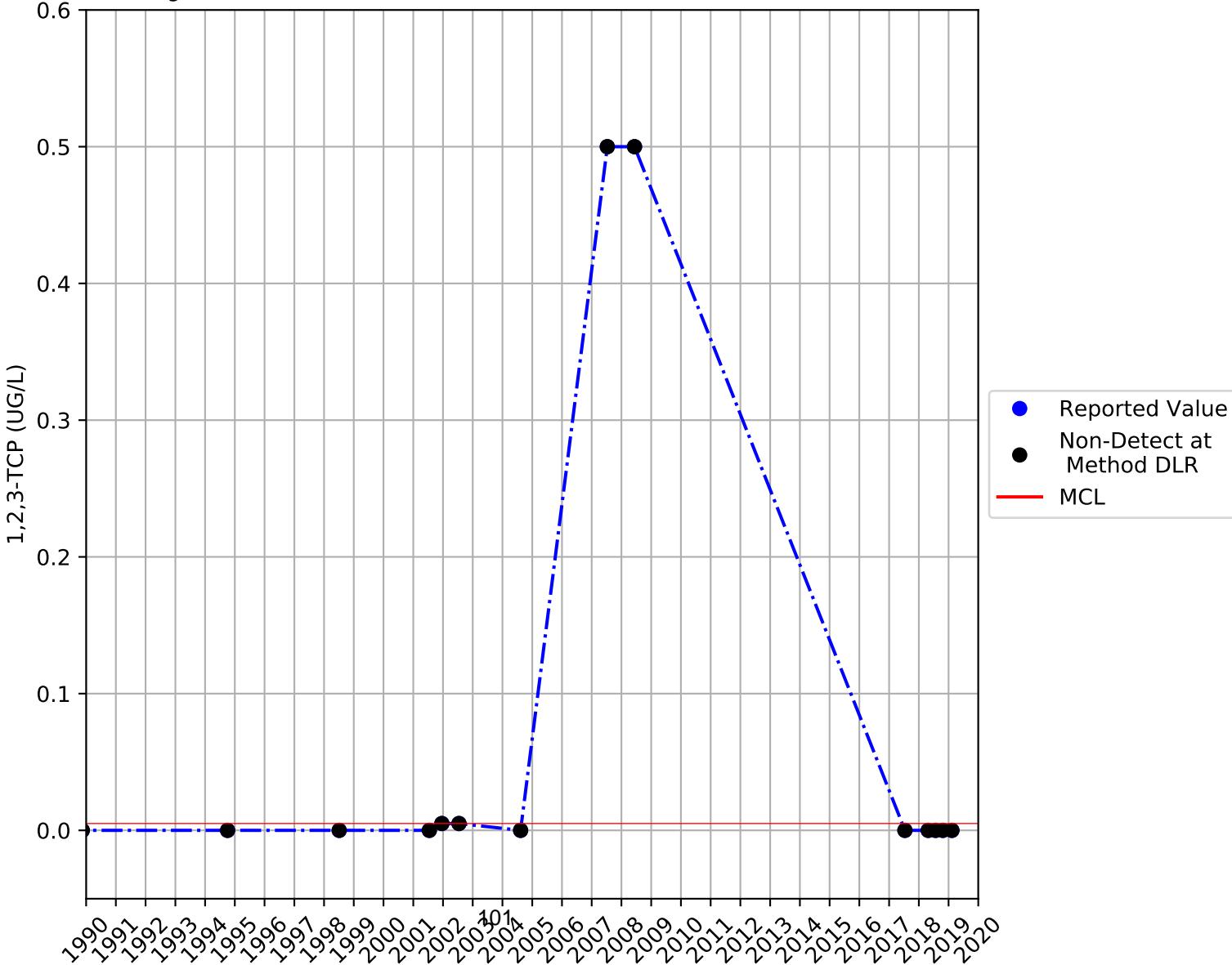
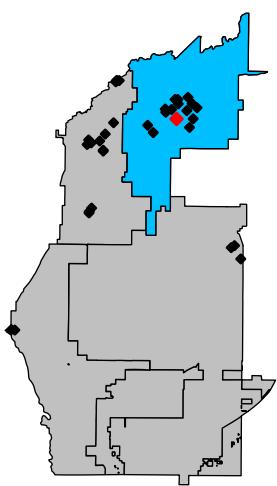
TOTAL DISSOLVED SOLIDS
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El Rico GSA



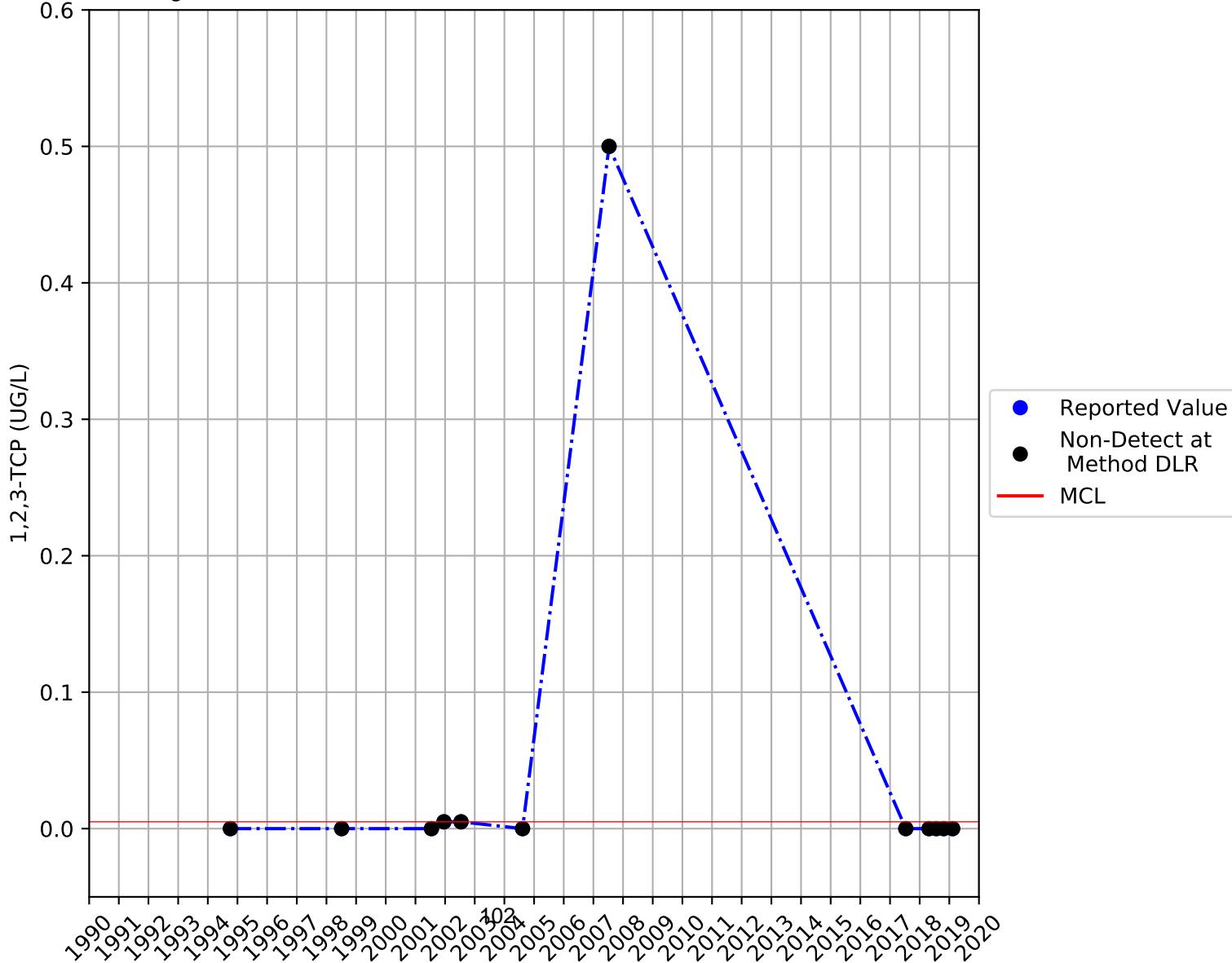
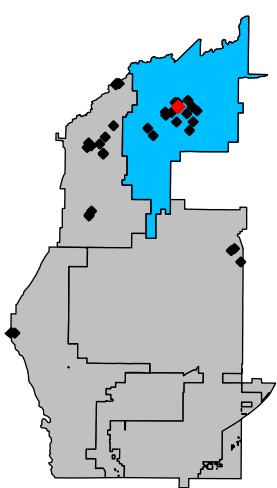
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1610003-026 WELL 33 - RAW
Mid-Kings River GSA



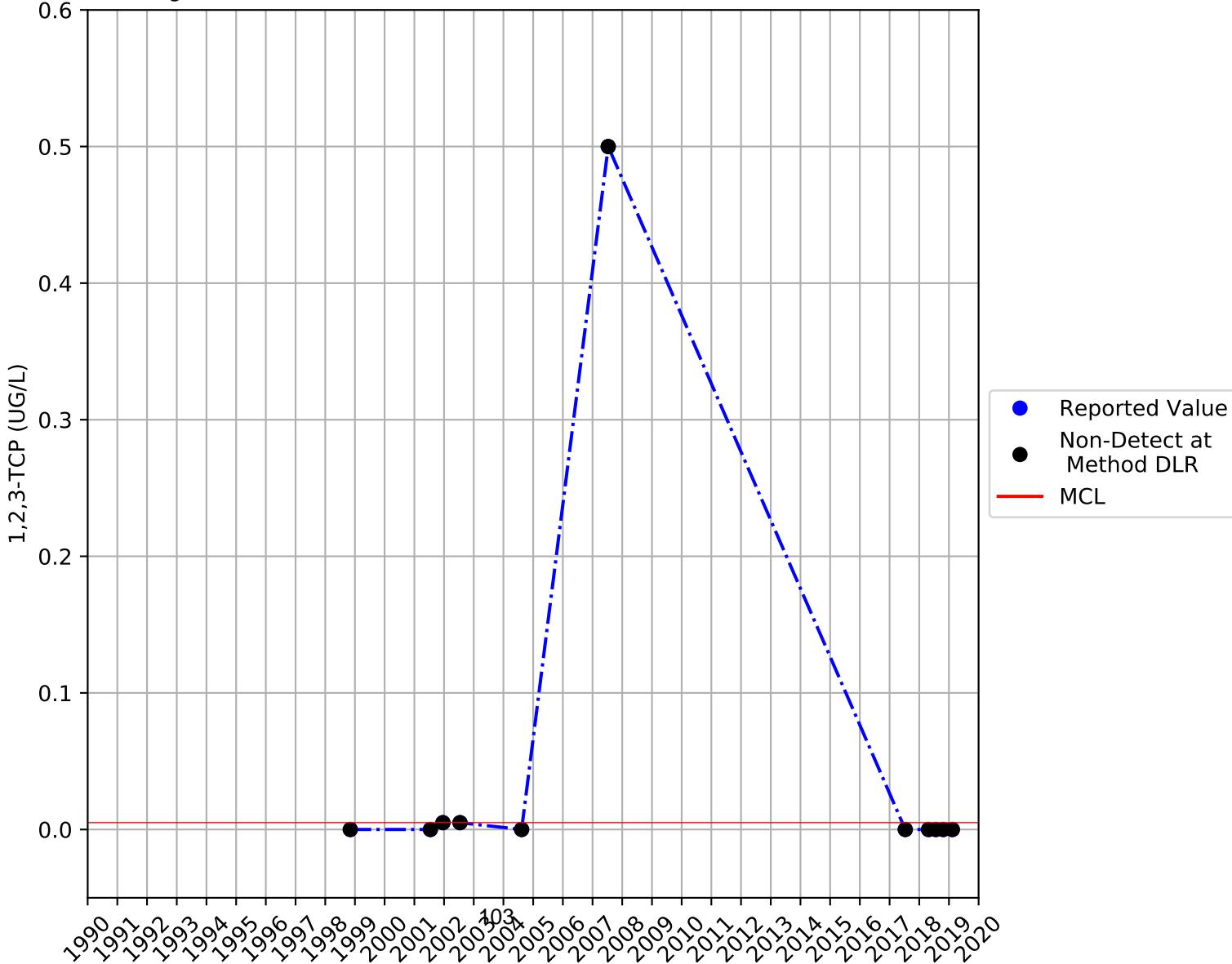
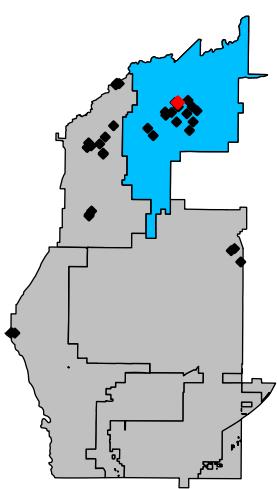
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1610003-028 WELL 35 - RAW
Mid-Kings River GSA



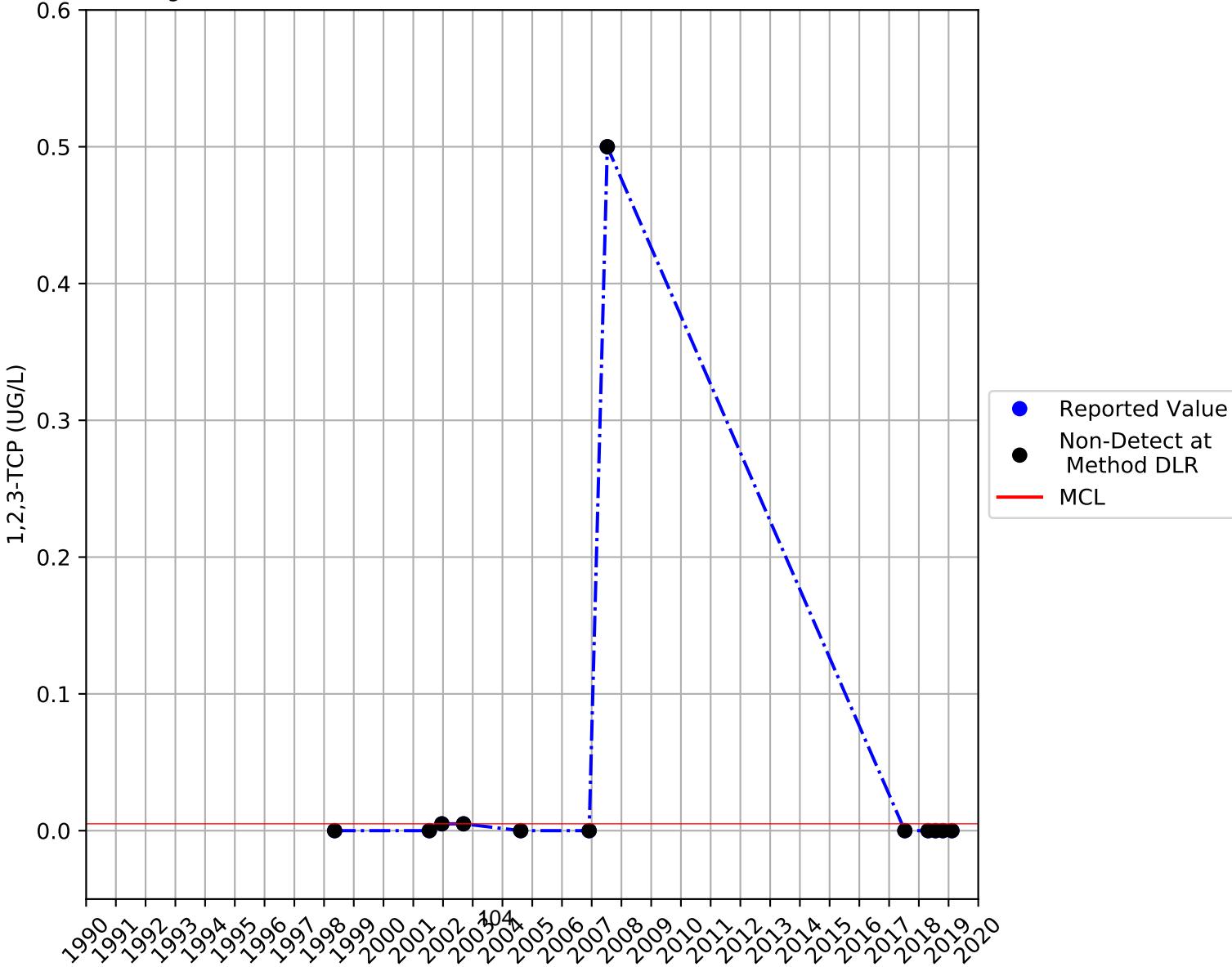
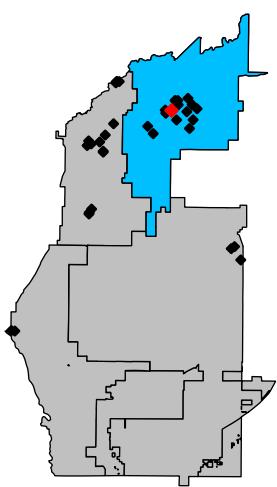
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1610003-031 WELL 38
Mid-Kings River GSA



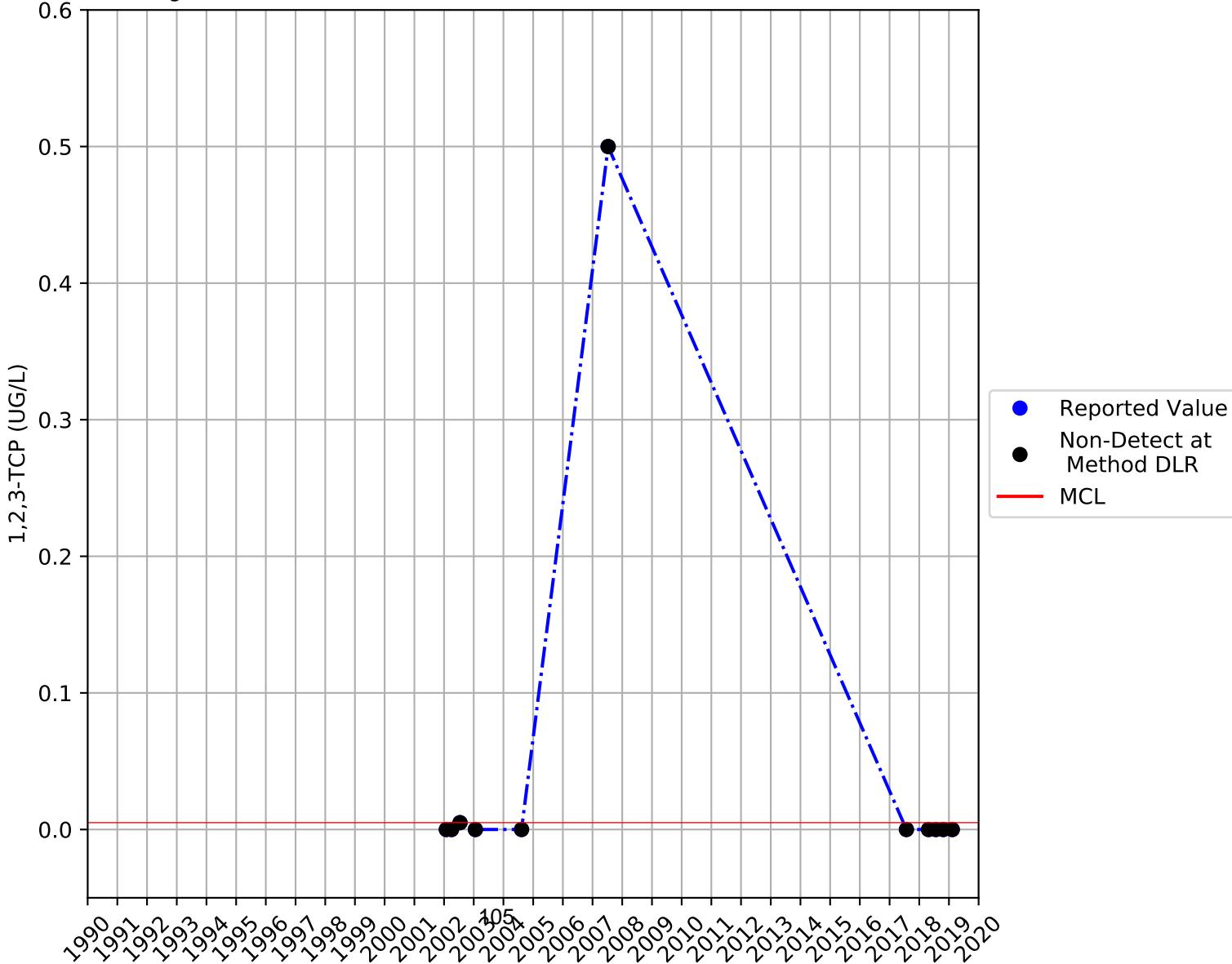
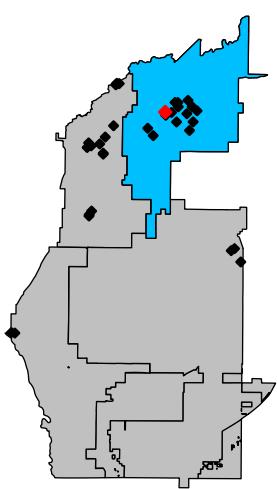
1,2,3-TRICHLOROPROPANE
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



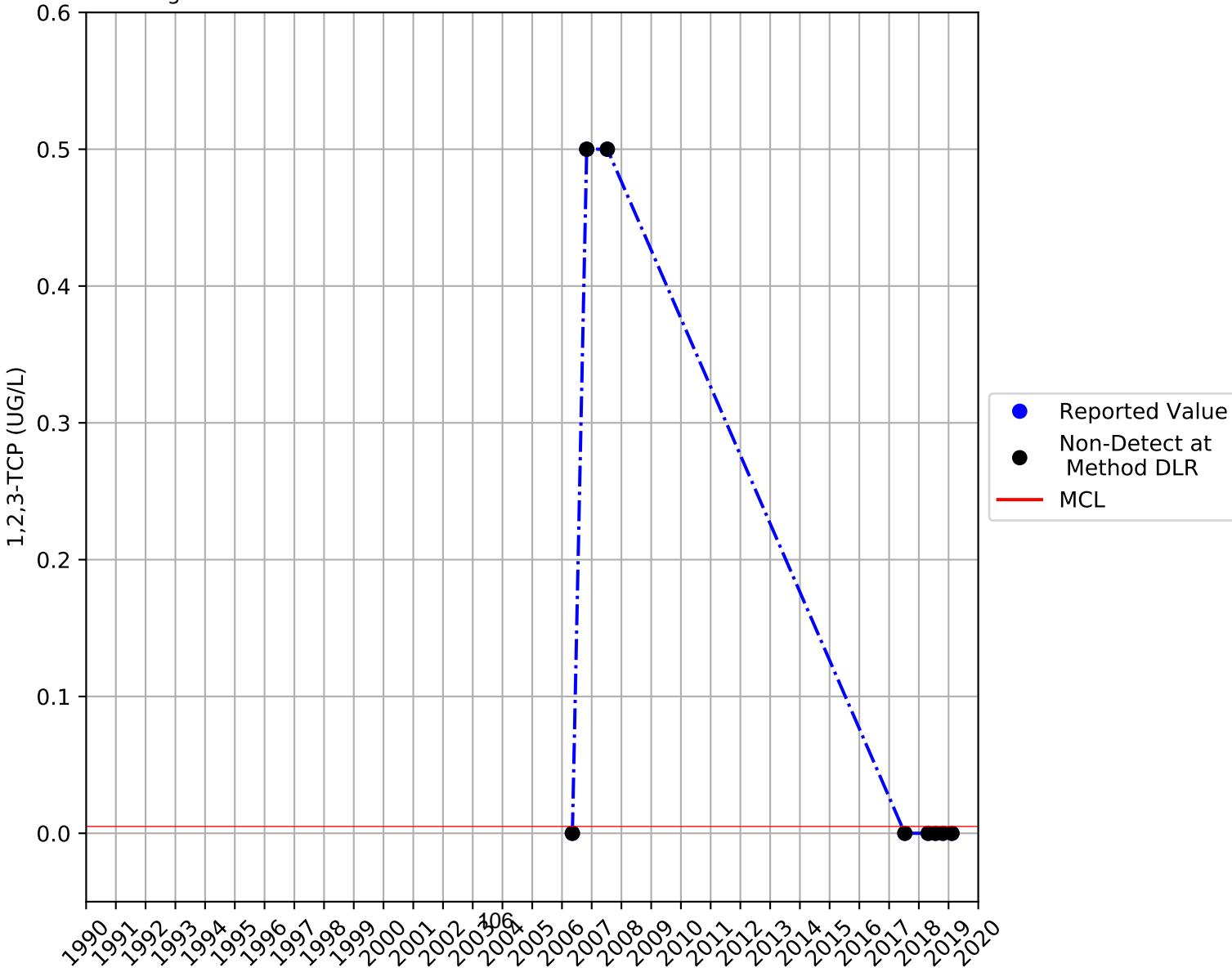
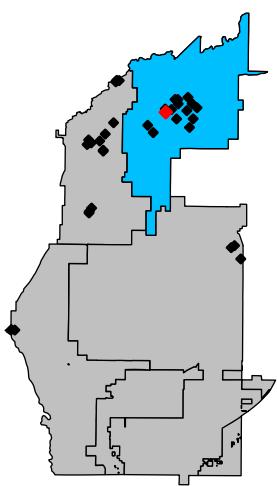
1,2,3-TRICHLOROPROPANE
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



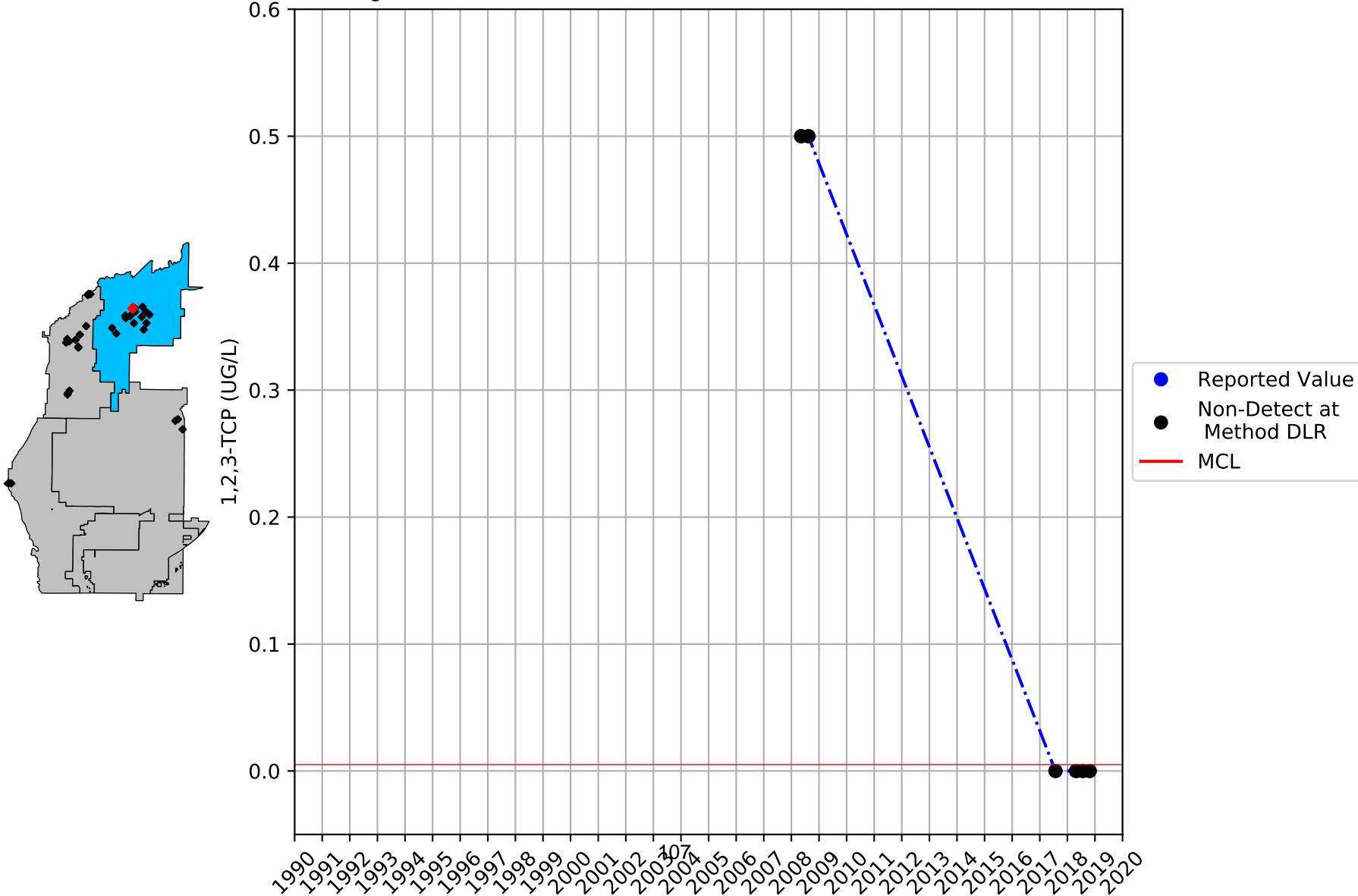
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1610003-036 WELL 42 - RAW
Mid-Kings River GSA



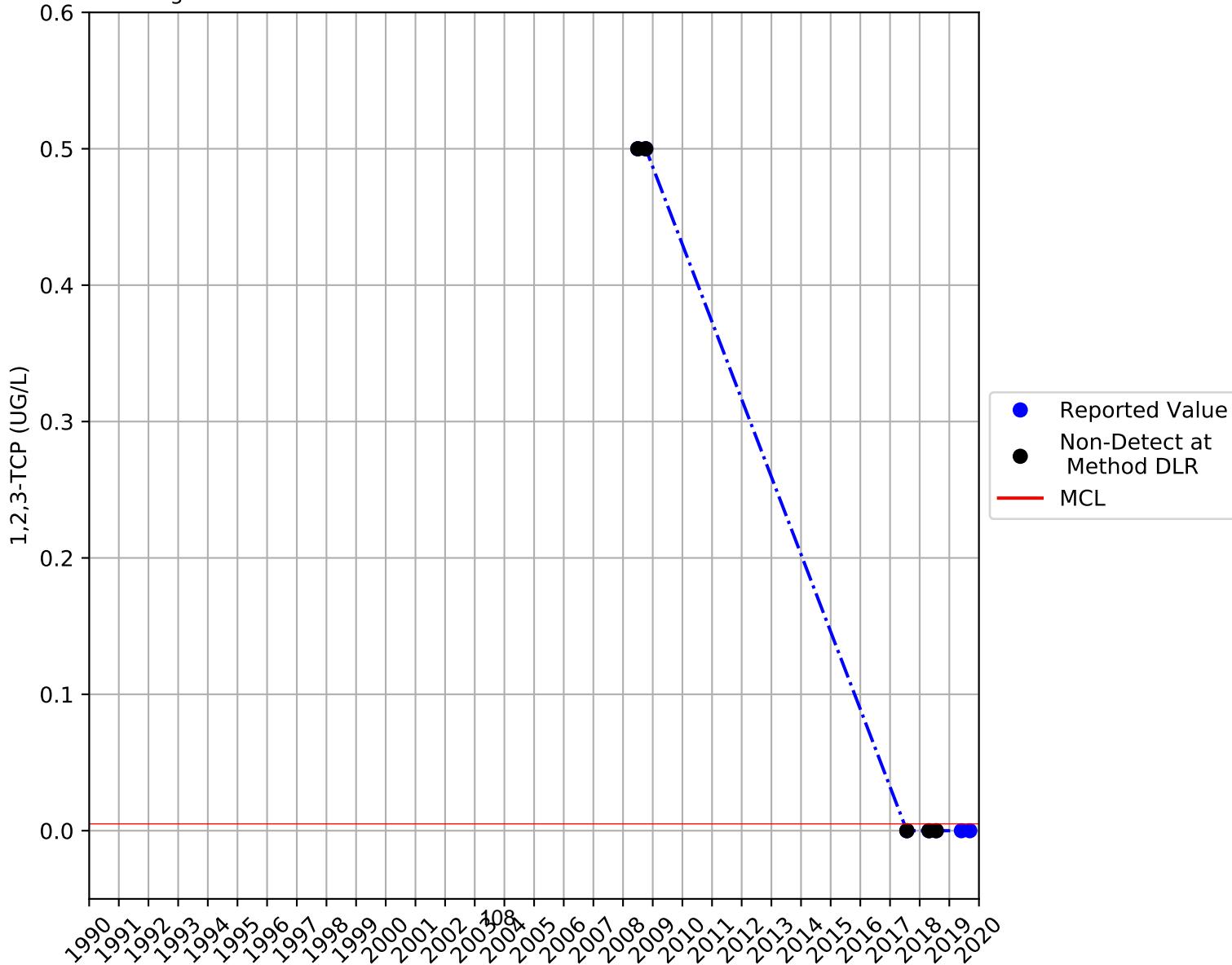
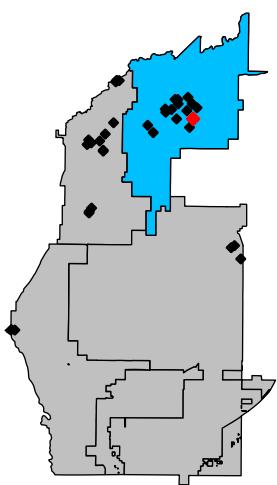
1,2,3-TRICHLOROPROPANE
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



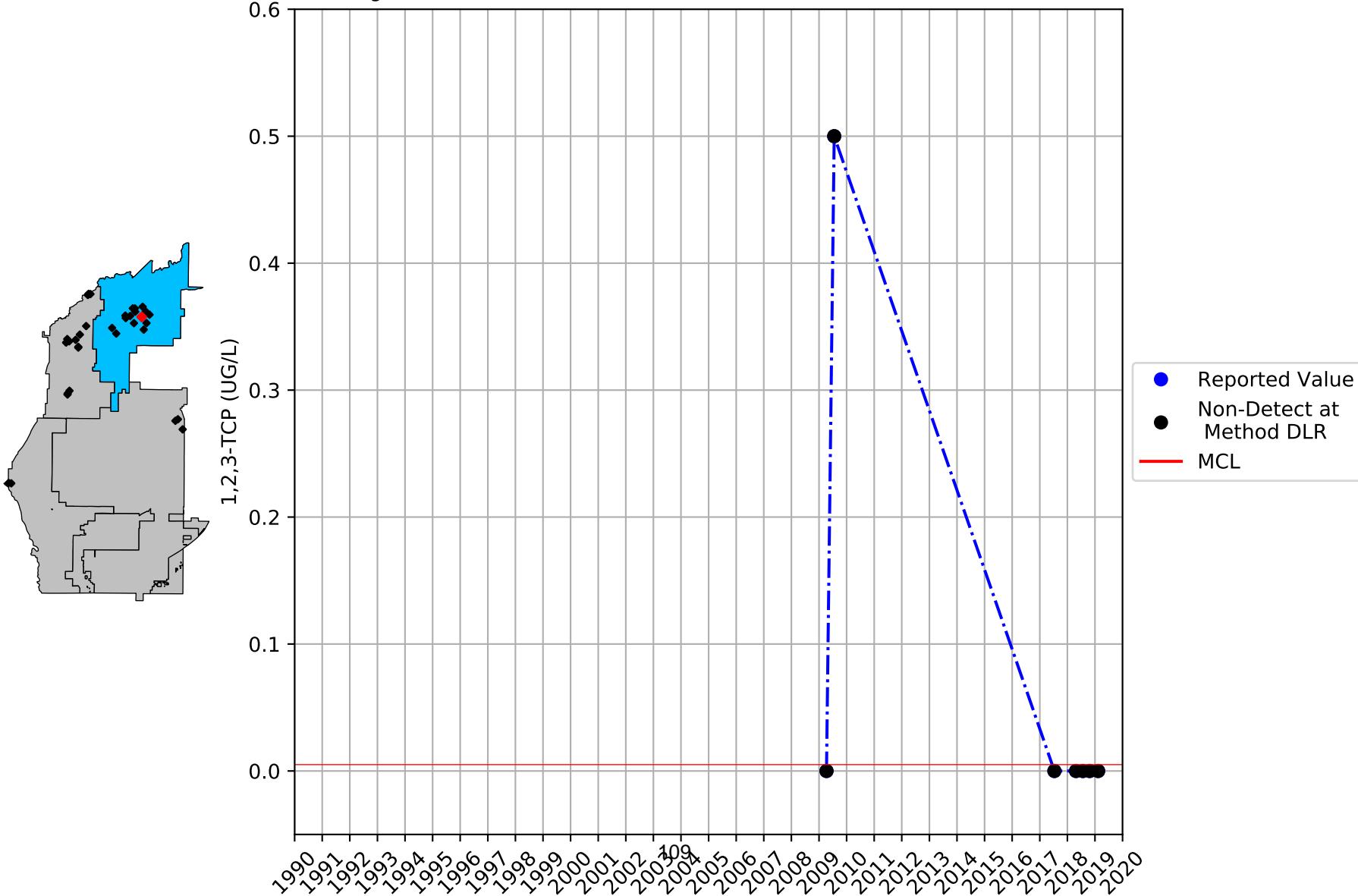
1,2,3-TRICHLOROPROPANE
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



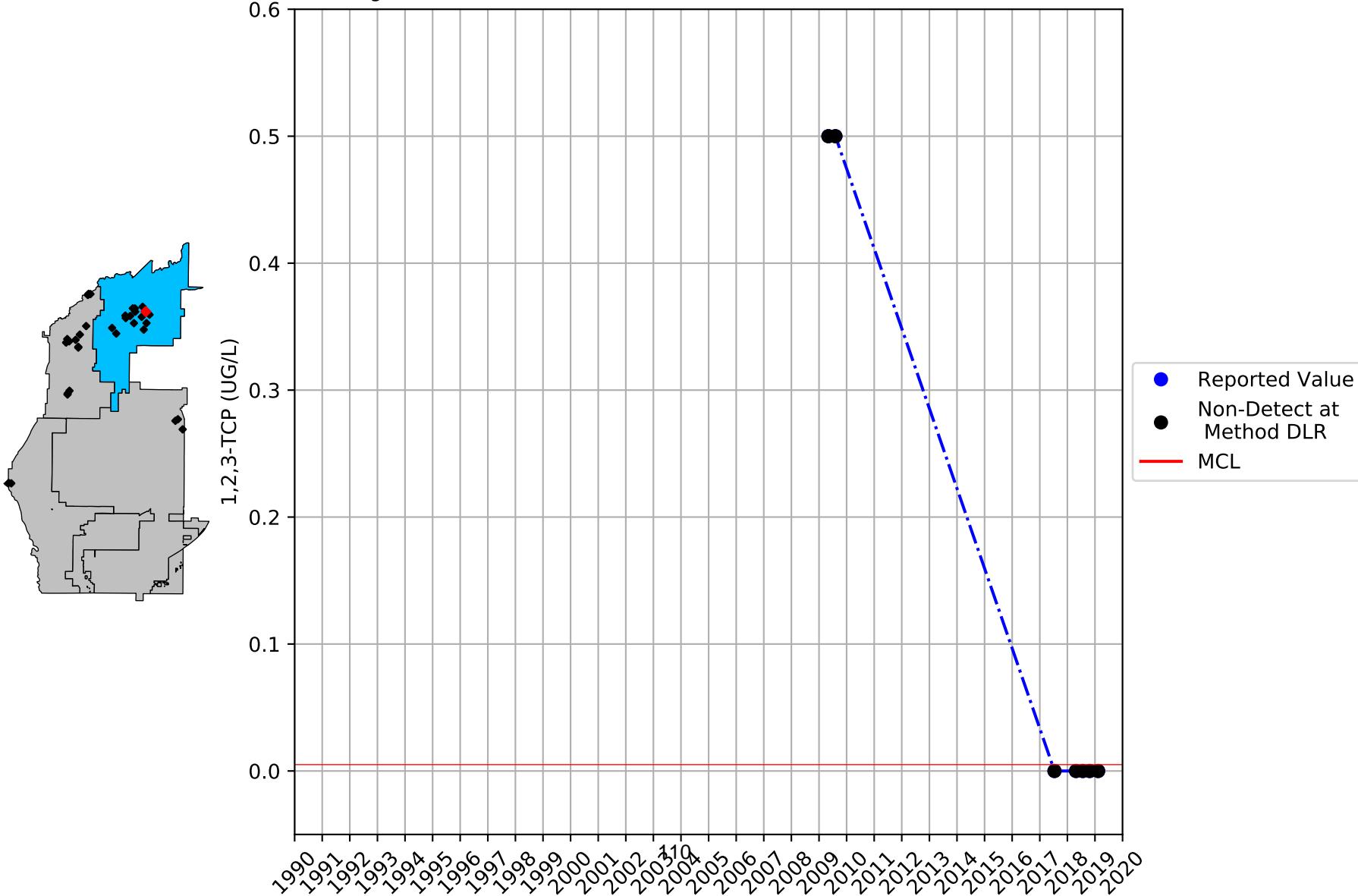
1,2,3-TRICHLOROPROPANE
1610003-039 WELL 45 - RAW
Mid-Kings River GSA



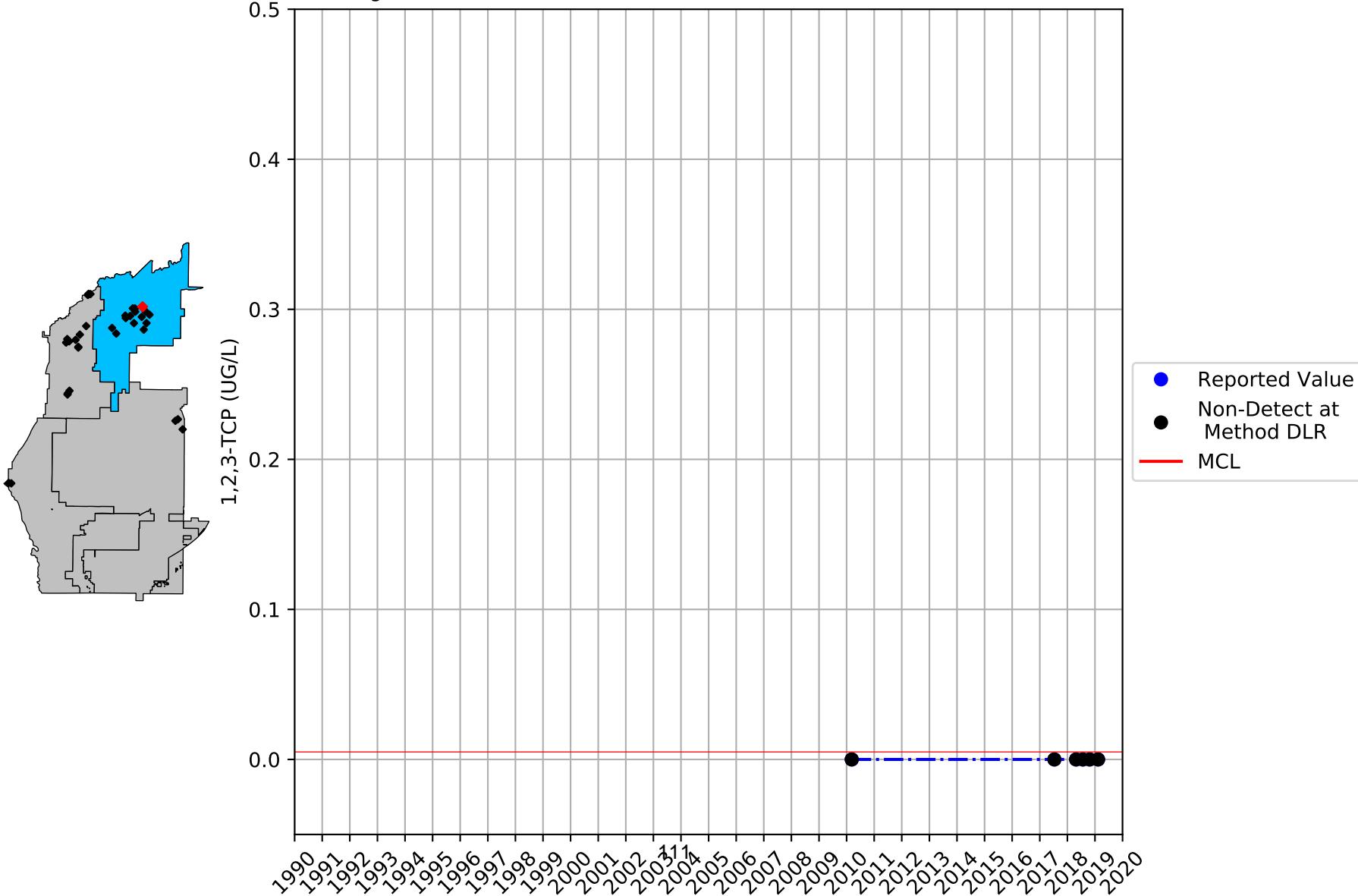
1,2,3-TRICHLOROPROPANE
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



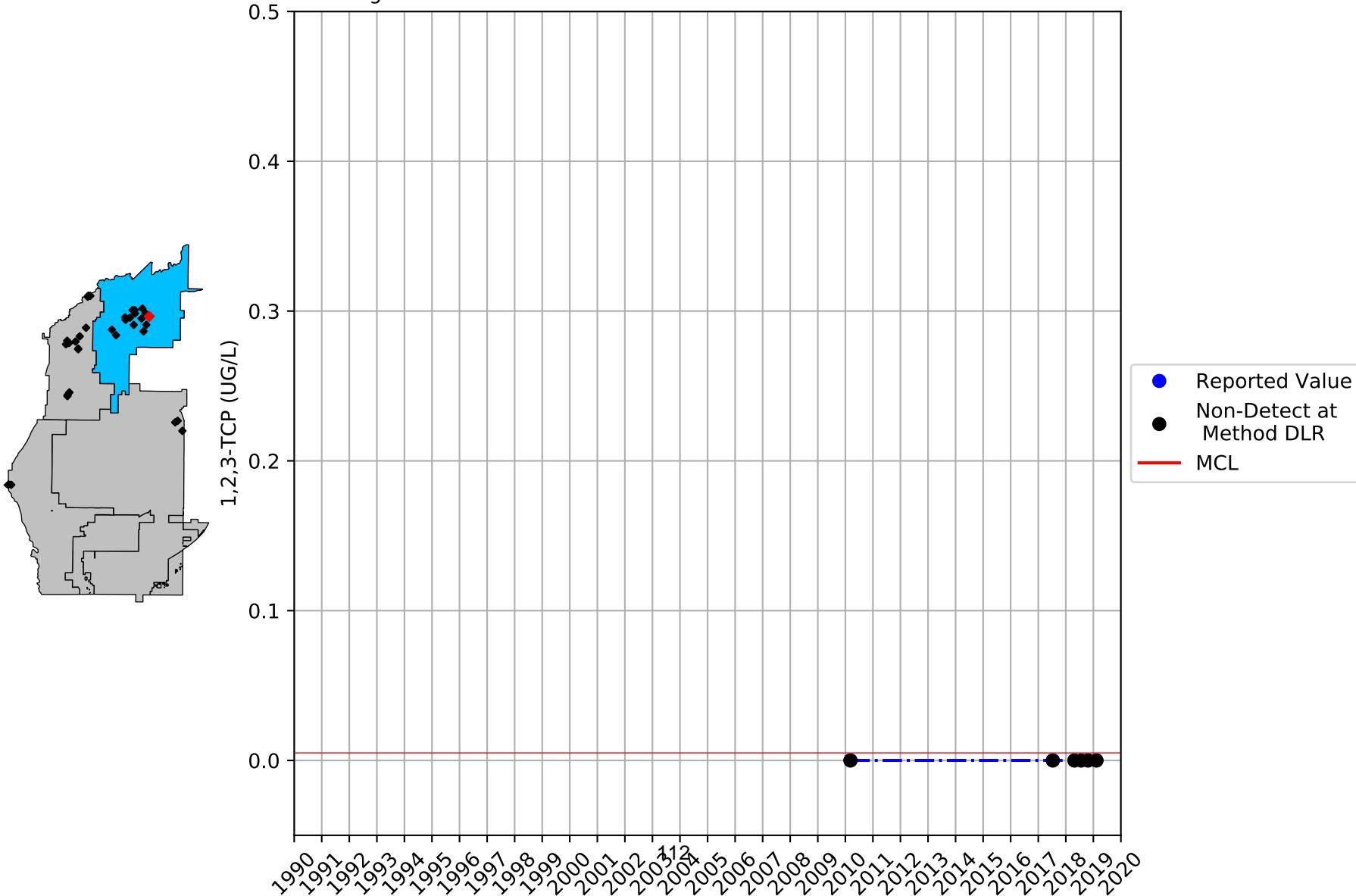
1,2,3-TRICHLOROPROPANE
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



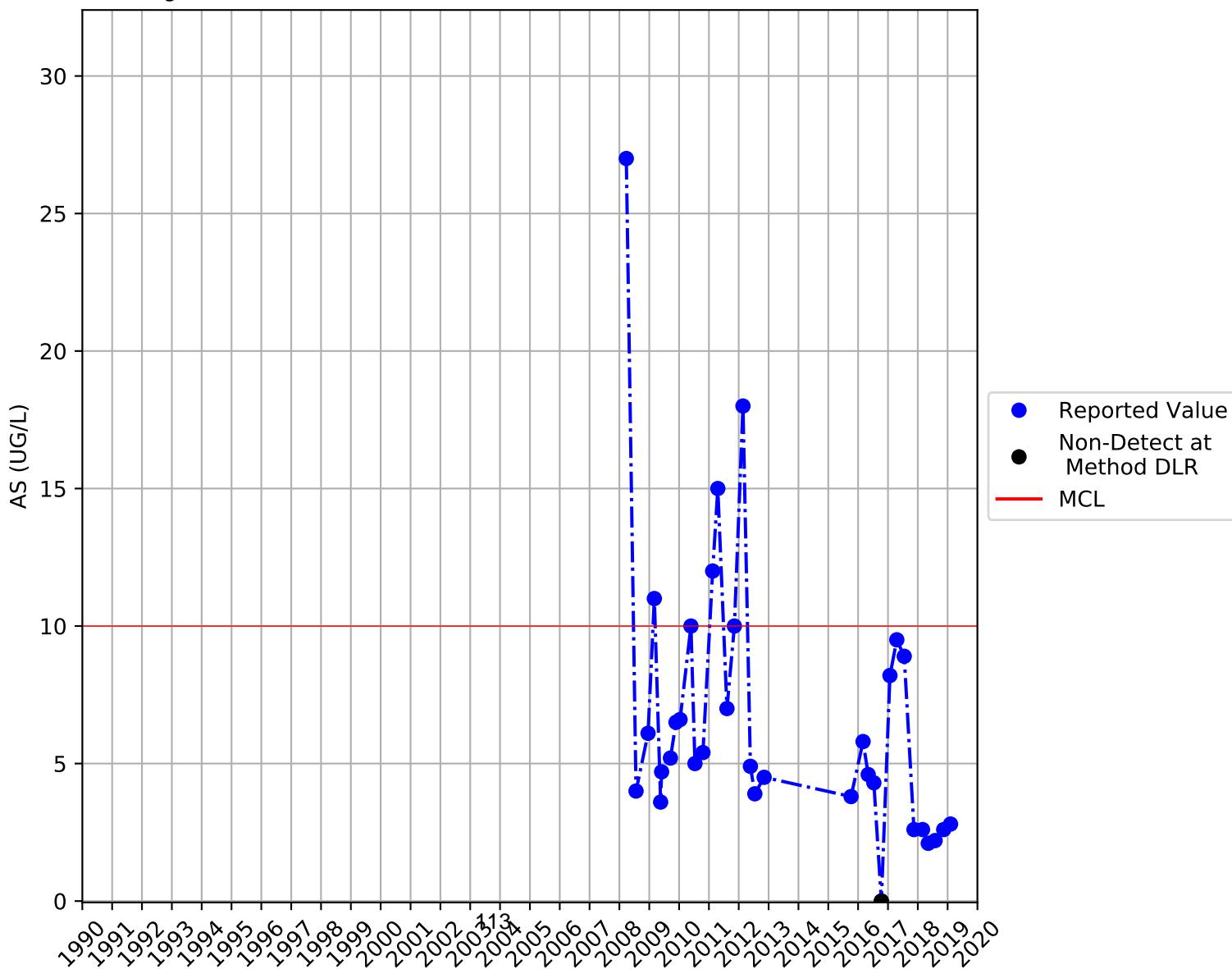
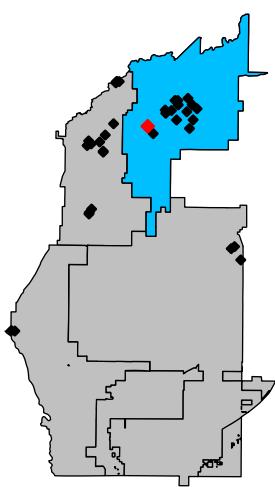
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1610003-042 WELL 48 - RAW
Mid-Kings River GSA



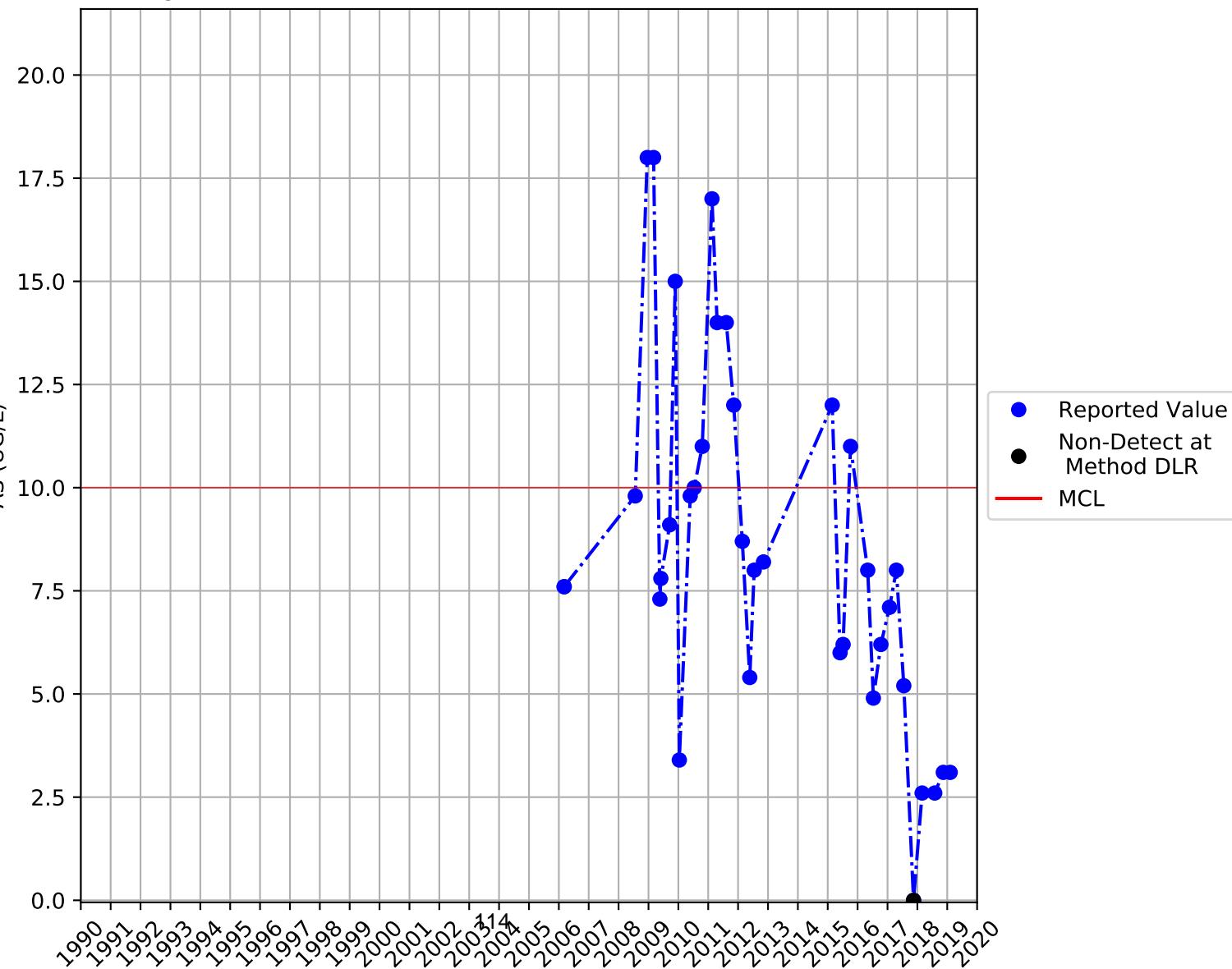
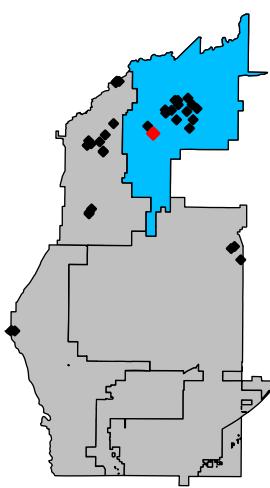
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1610003-043 WELL 49 - RAW
Mid-Kings River GSA



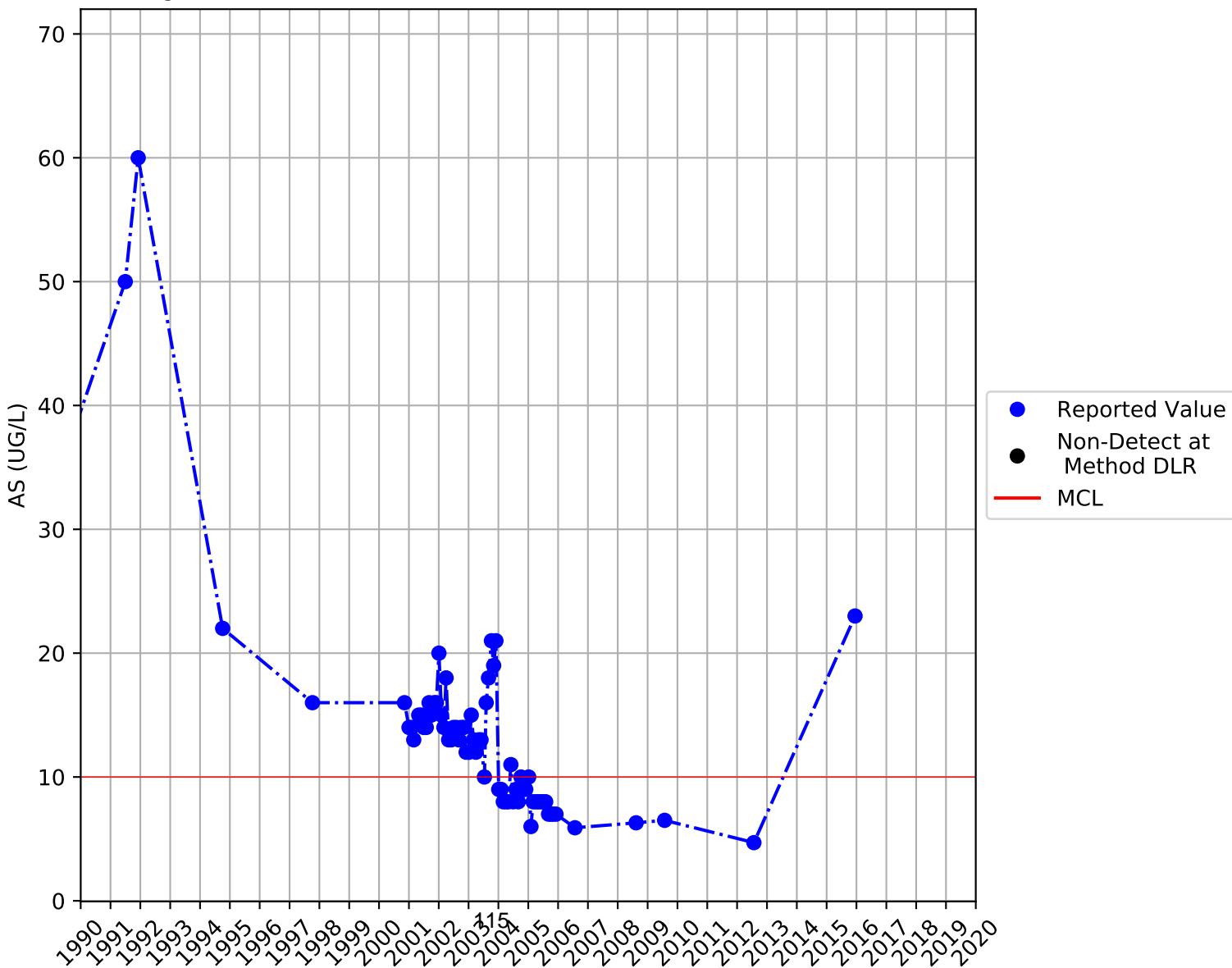
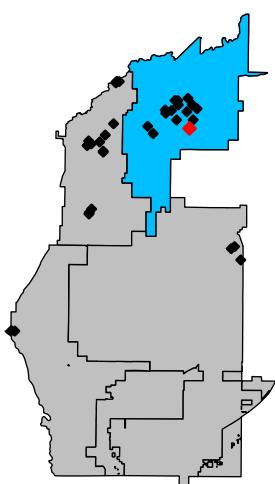
ARSENIC
1610001-008 WELL 02 - CL2 (AS COMPL PT) STBY2019
Mid-Kings River GSA



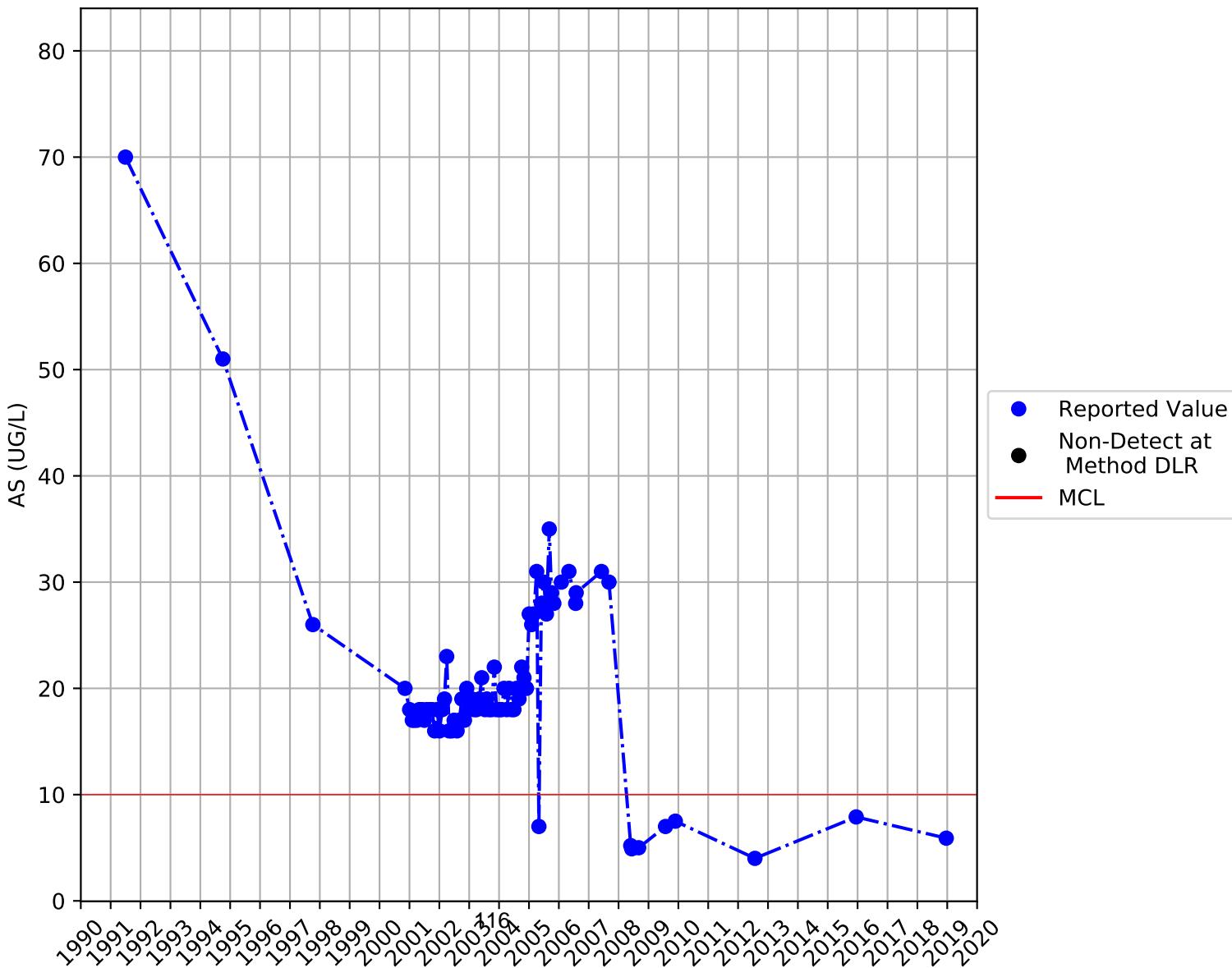
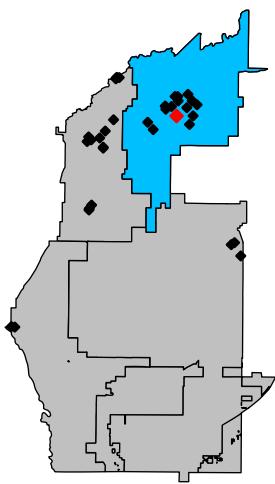
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1610001-009 WELL 01 - AFTER_AS/H2S/COLOR_STBY2019
Mid-Kings River GSA



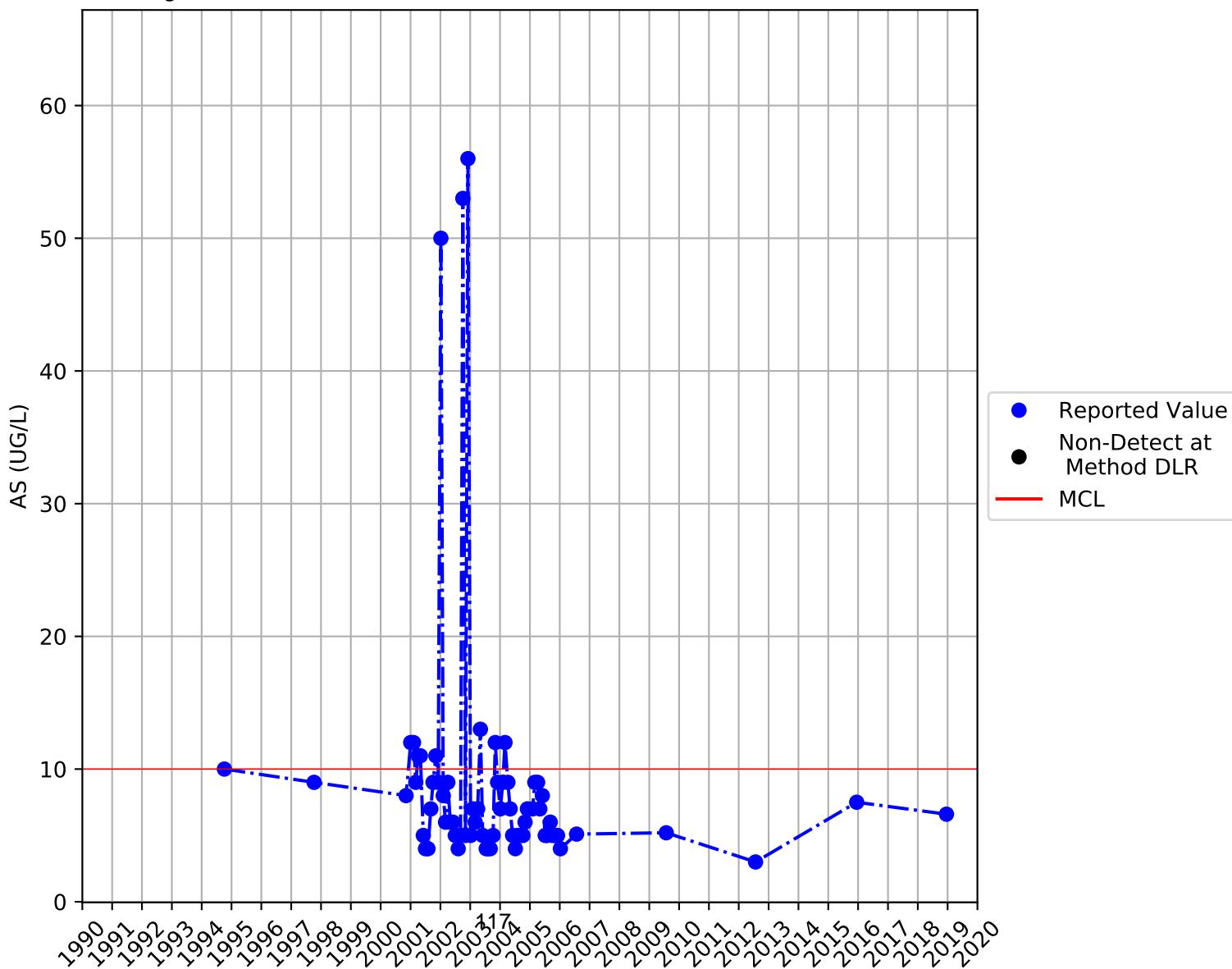
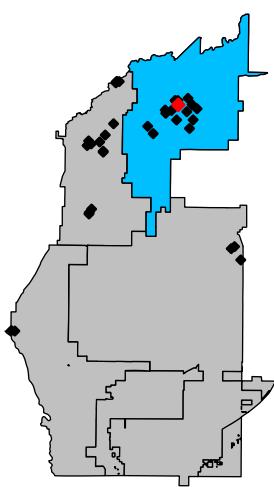
ARSENIC
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



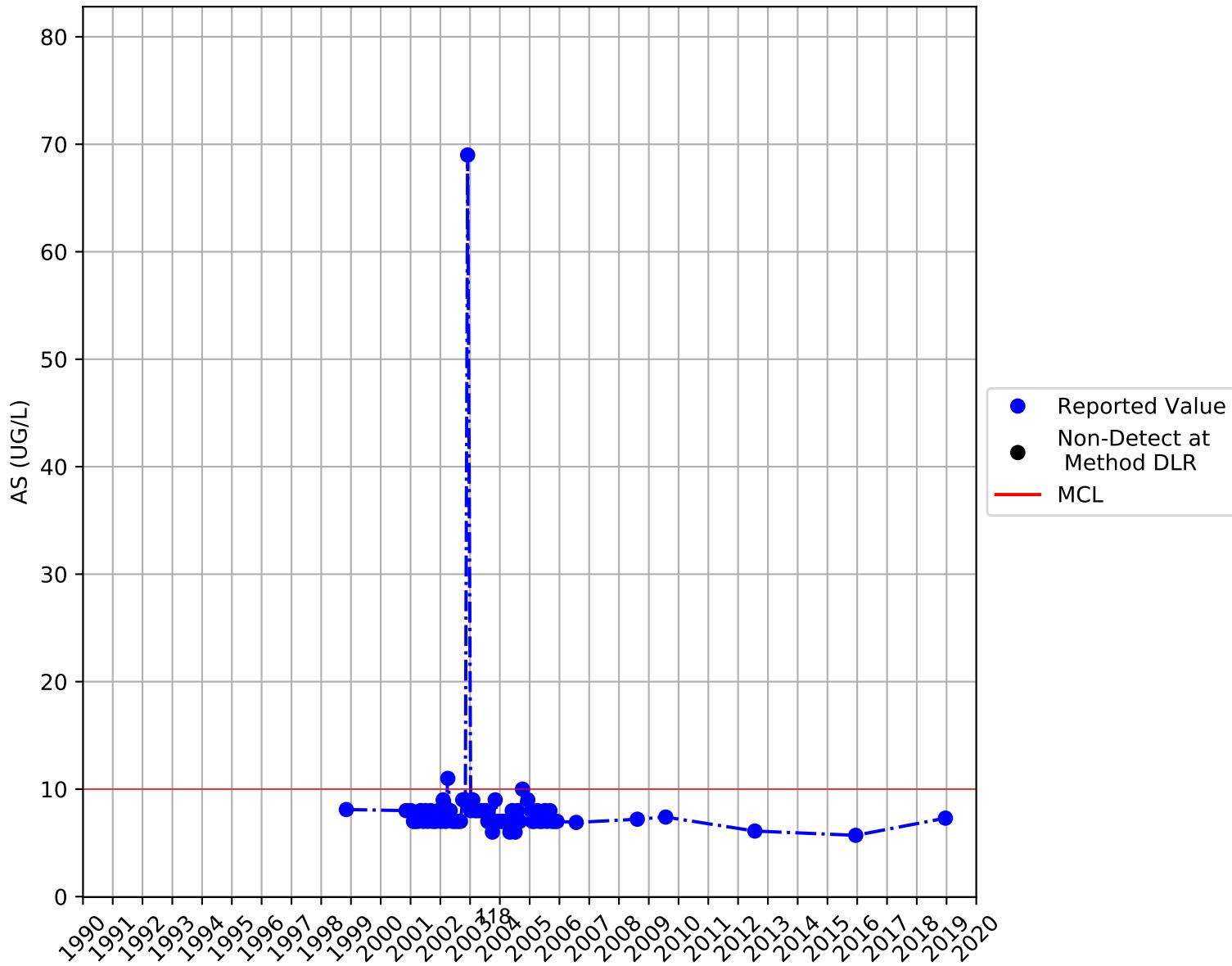
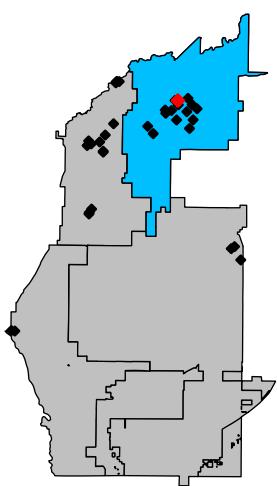
ARSENIC
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



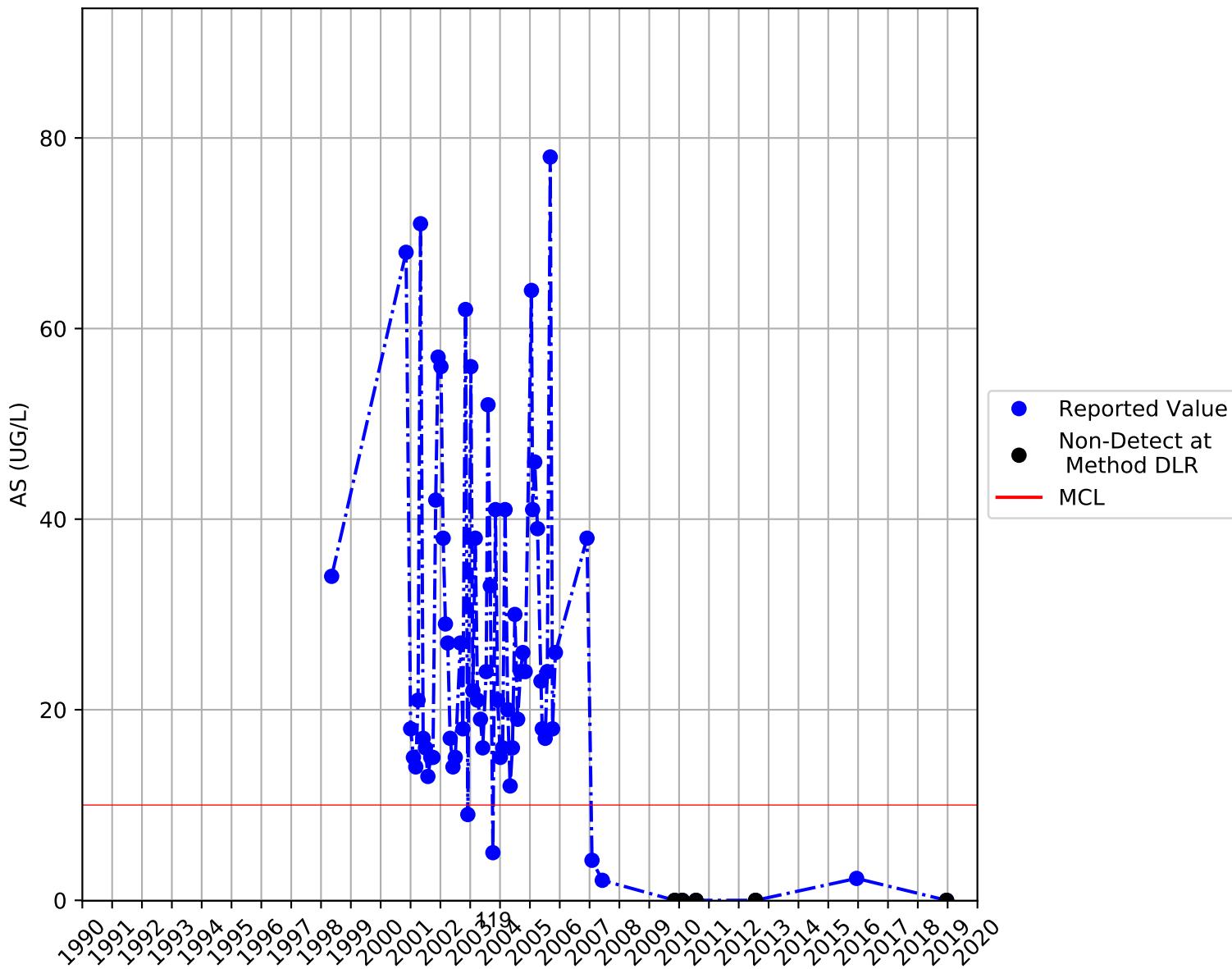
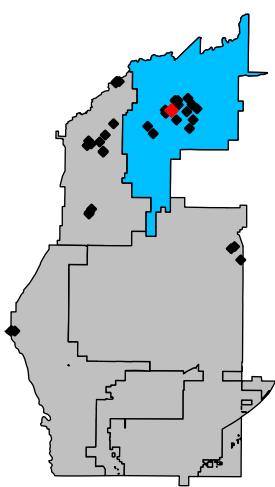
ARSENIC
1610003-031 WELL 38
Mid-Kings River GSA



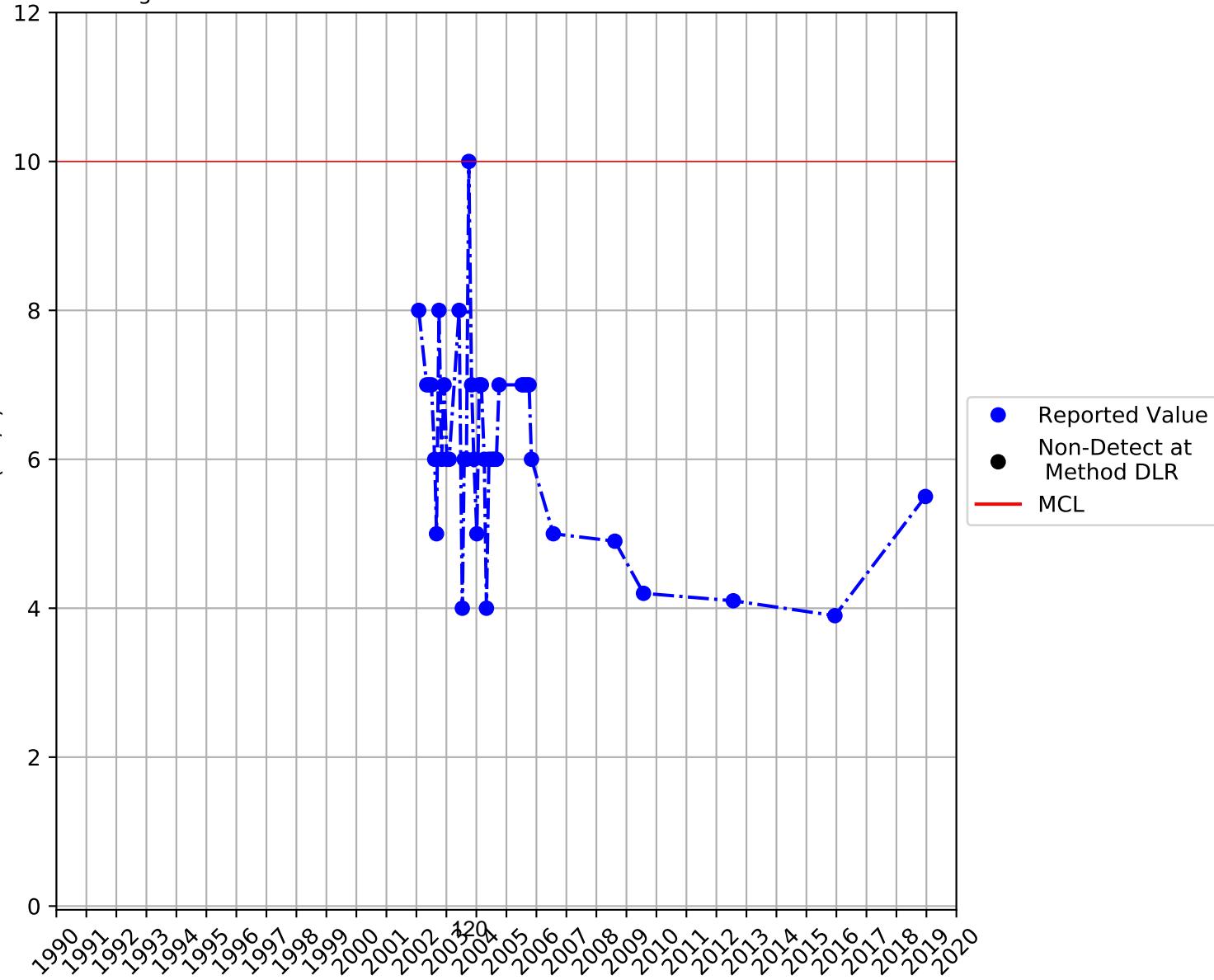
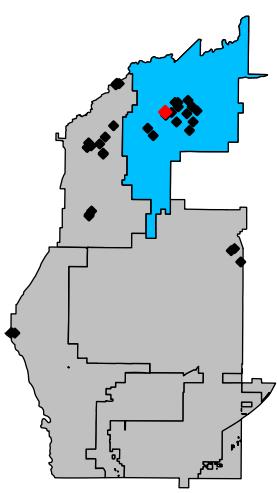
ARSENIC
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



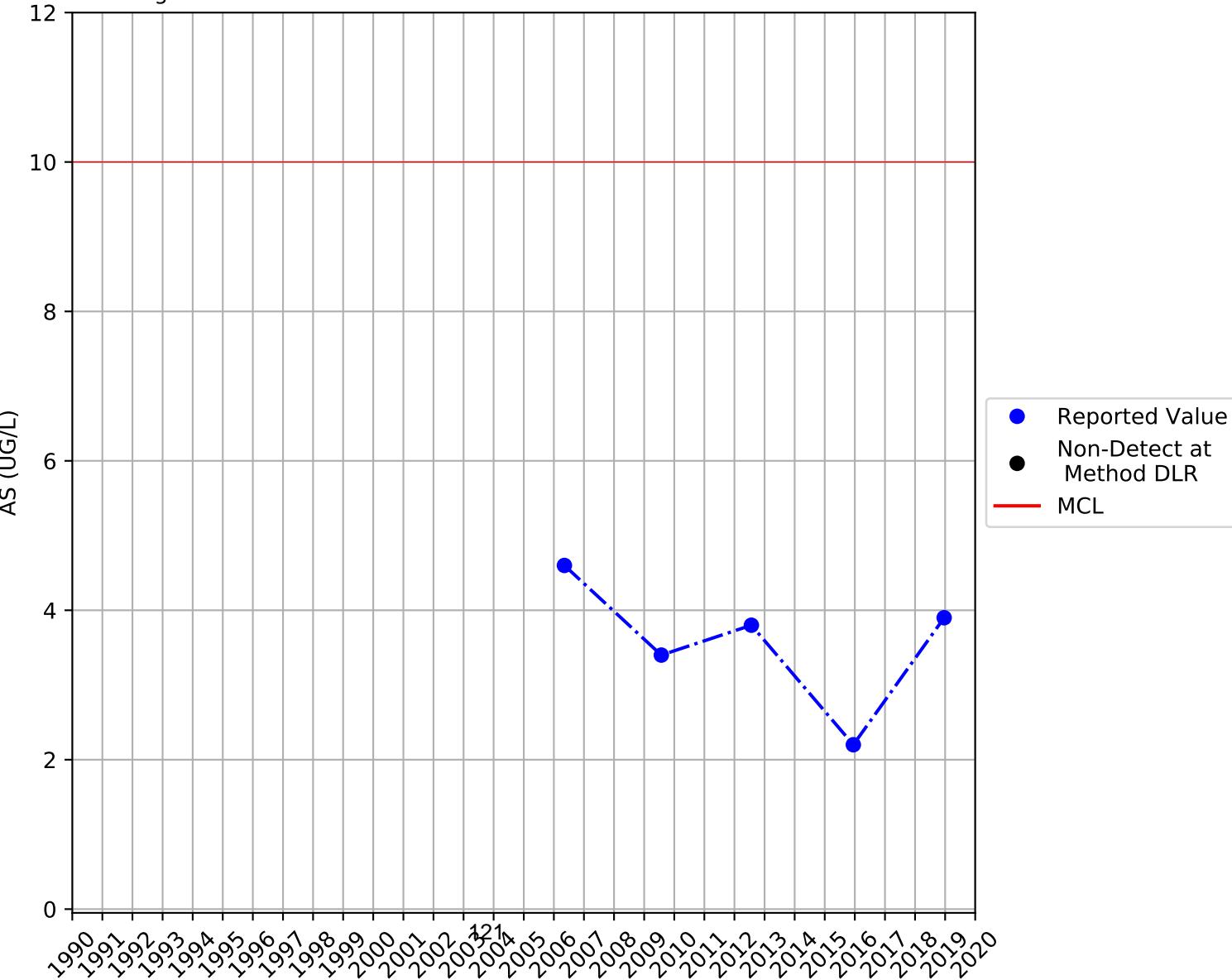
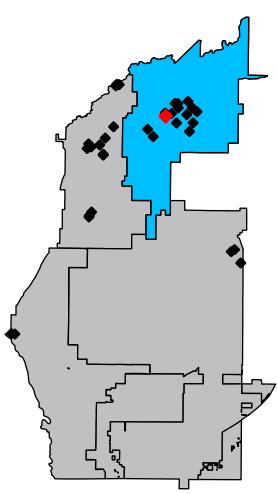
ARSENIC
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



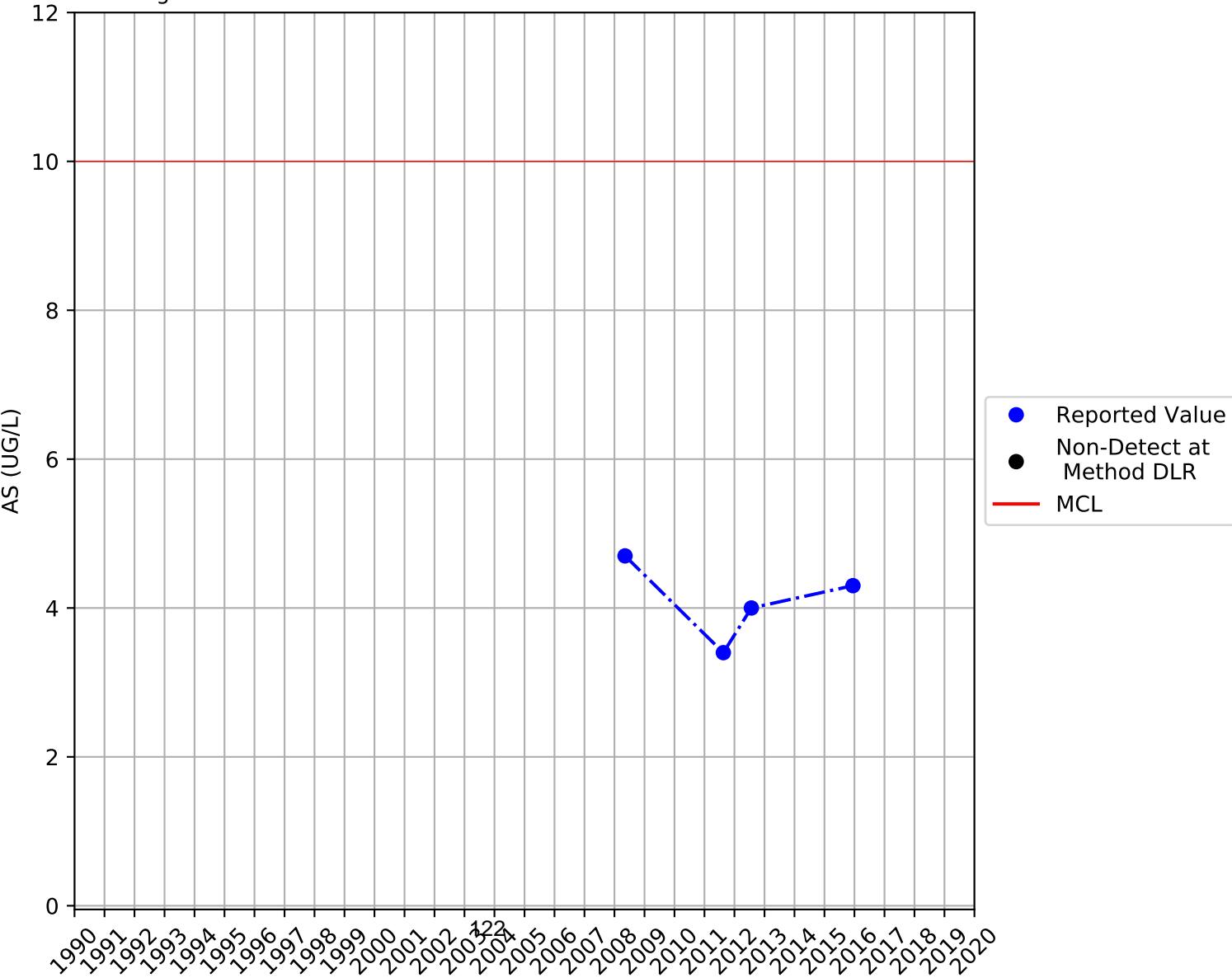
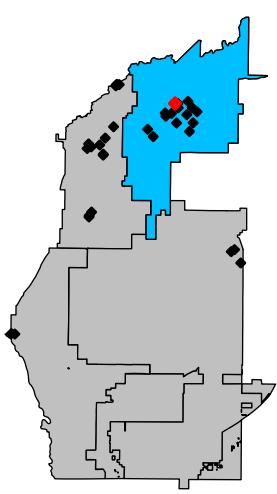
ARSENIC
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



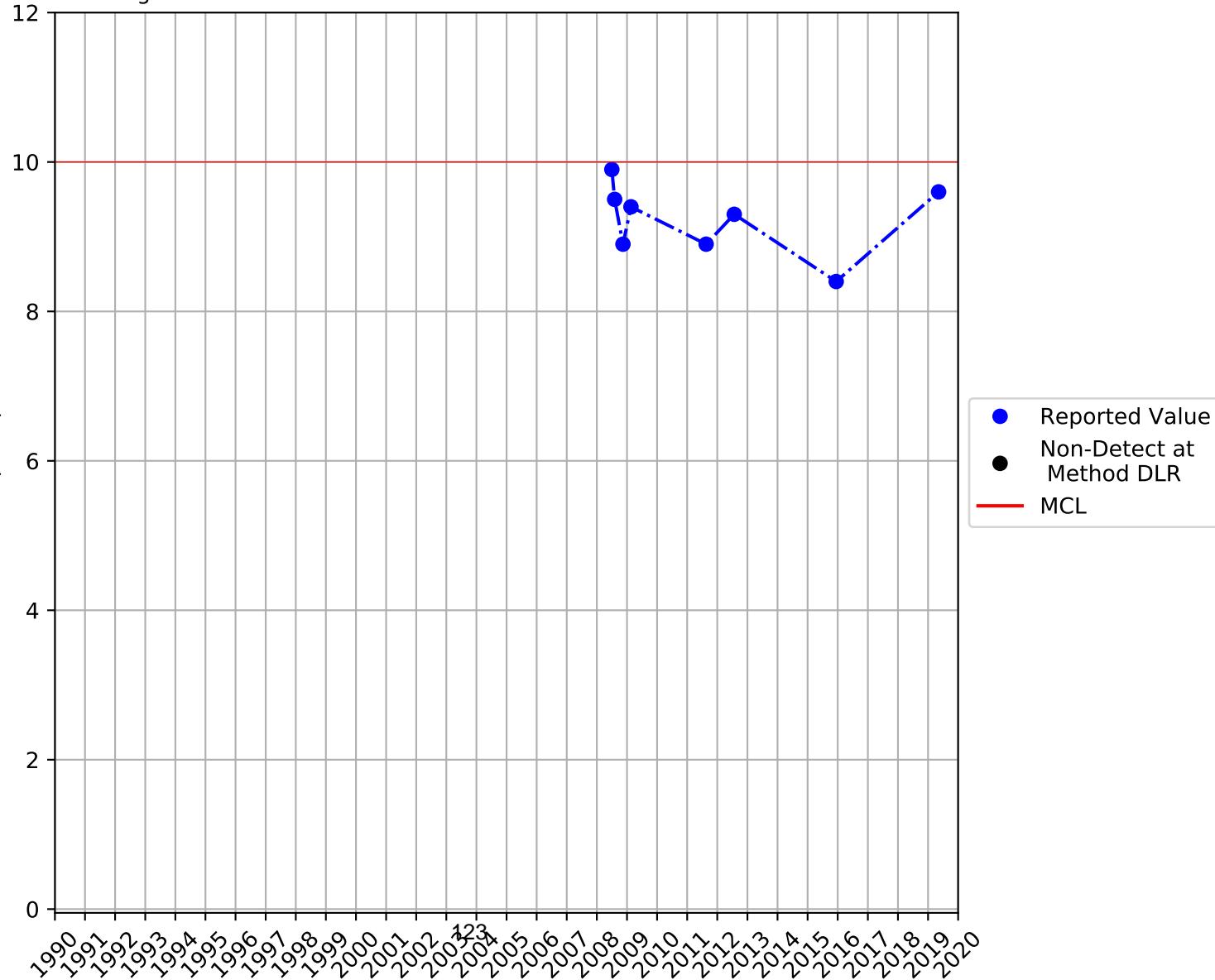
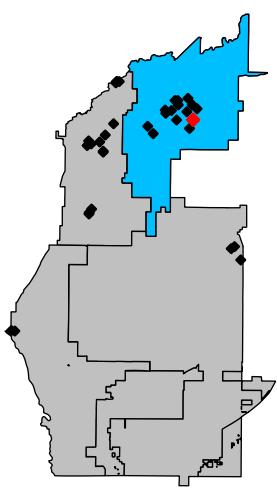
ARSENIC
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Mid-Kings River GSA



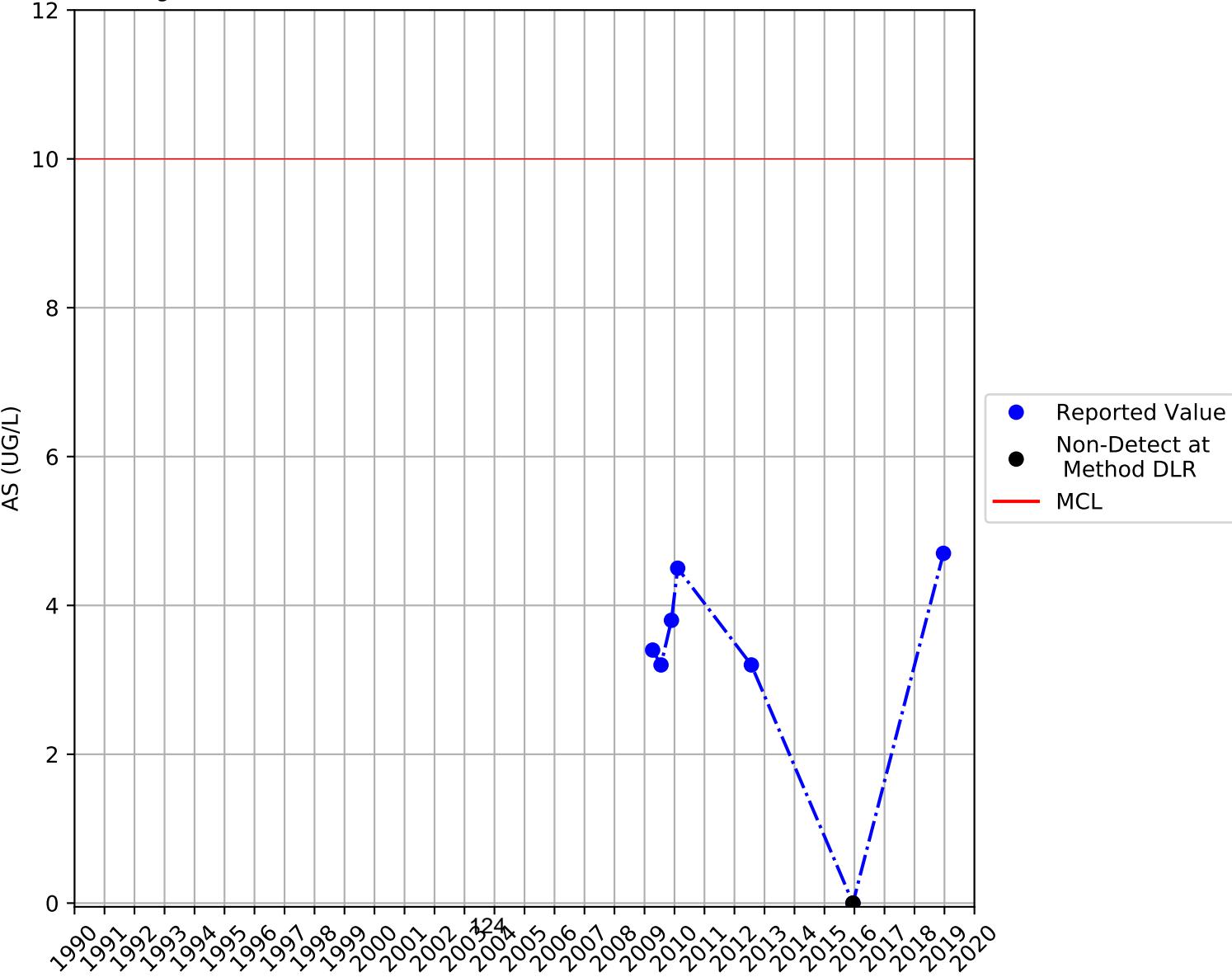
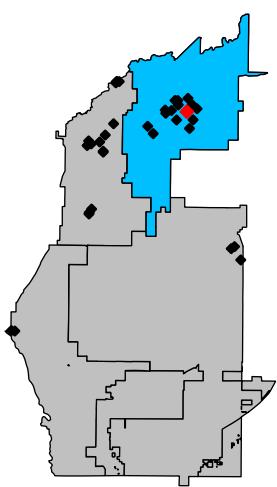
ARSENIC
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Mid-Kings River GSA



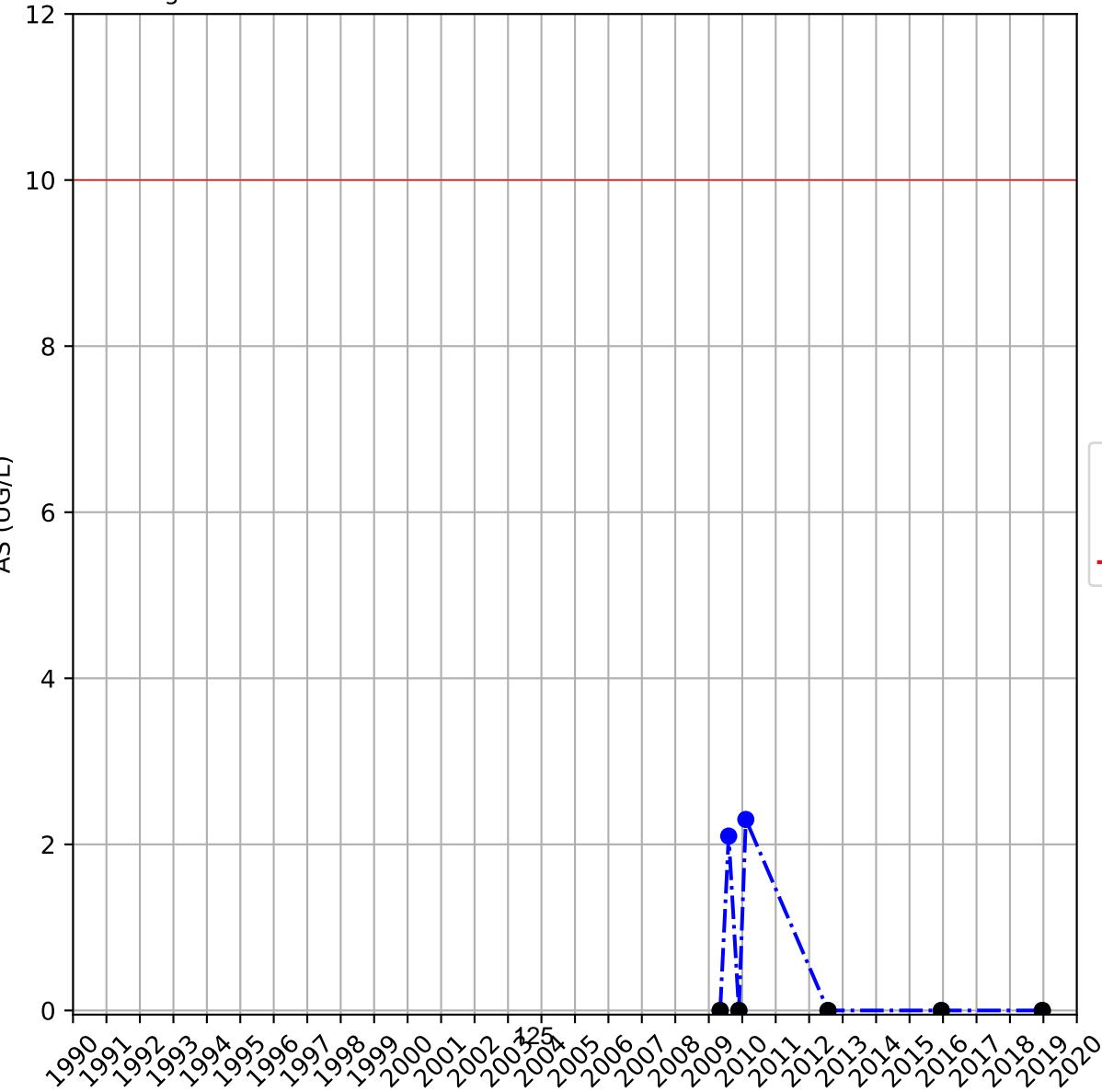
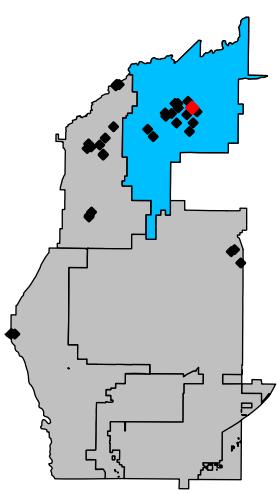
ARSENIC
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Mid-Kings River GSA



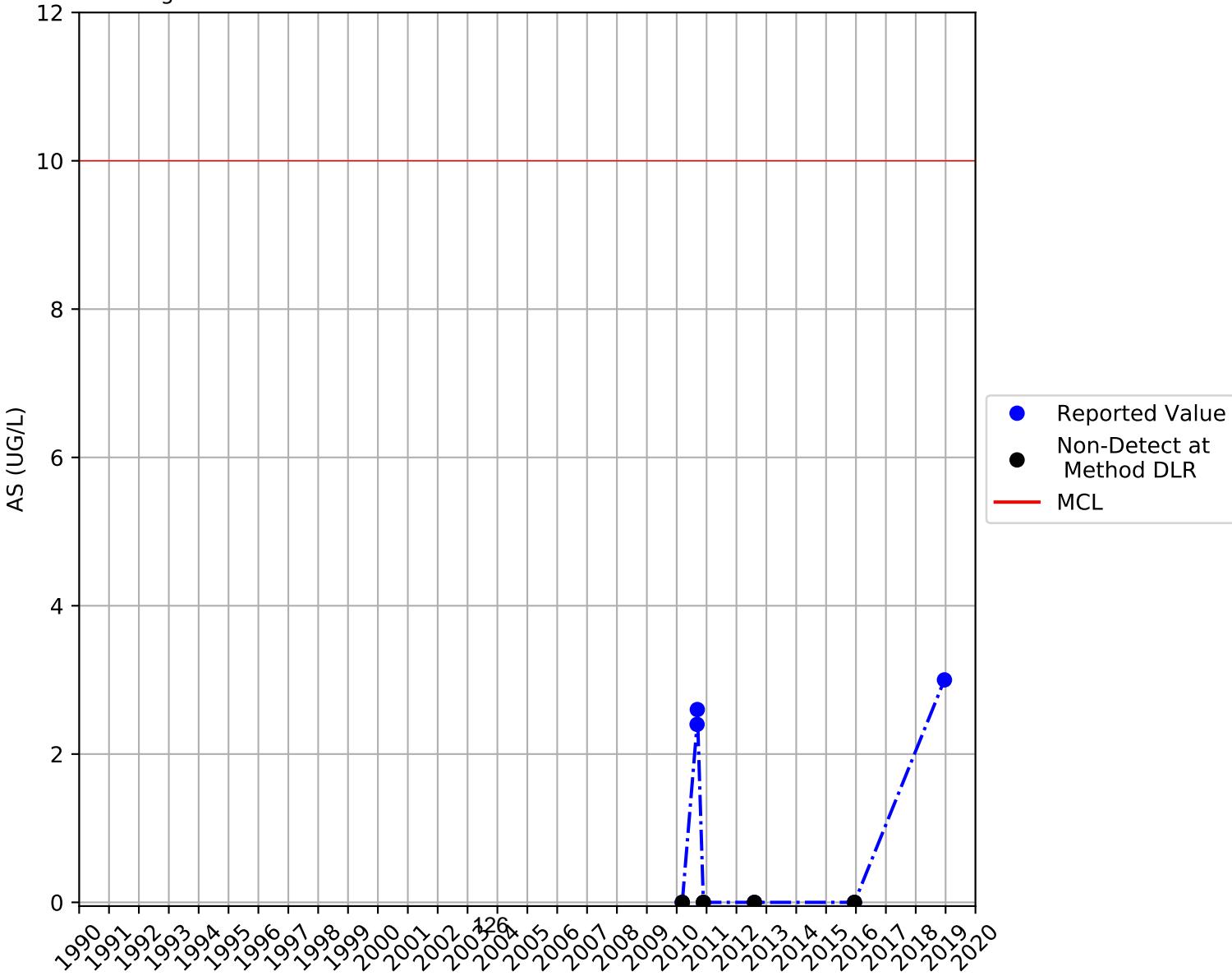
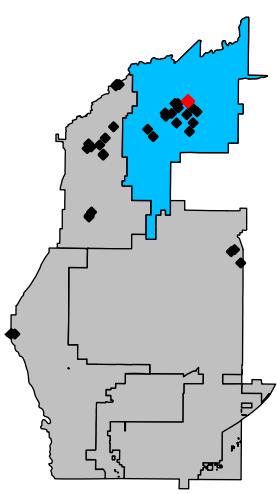
ARSENIC
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



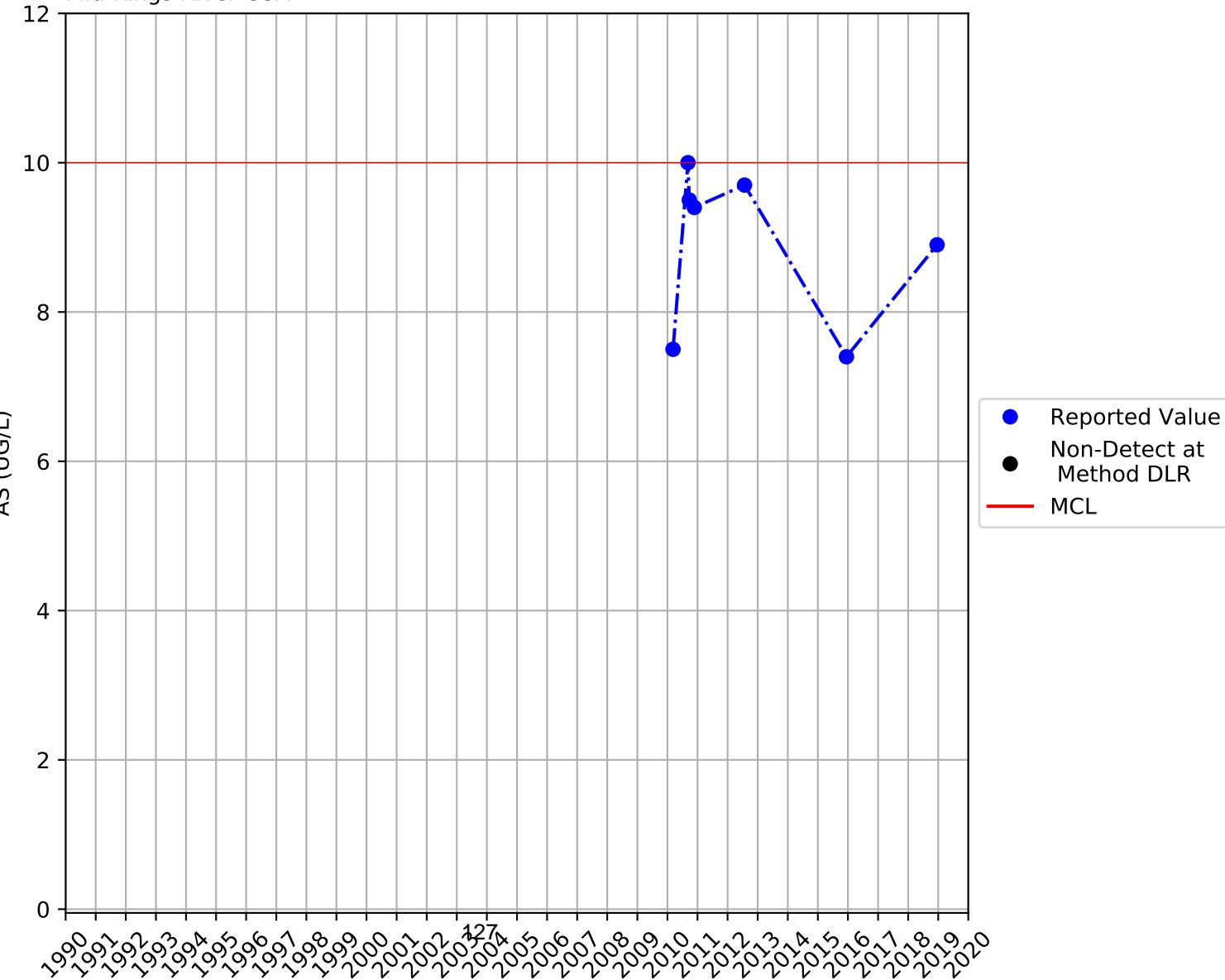
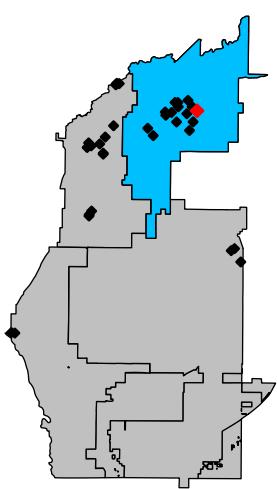
ARSENIC
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Mid-Kings River GSA



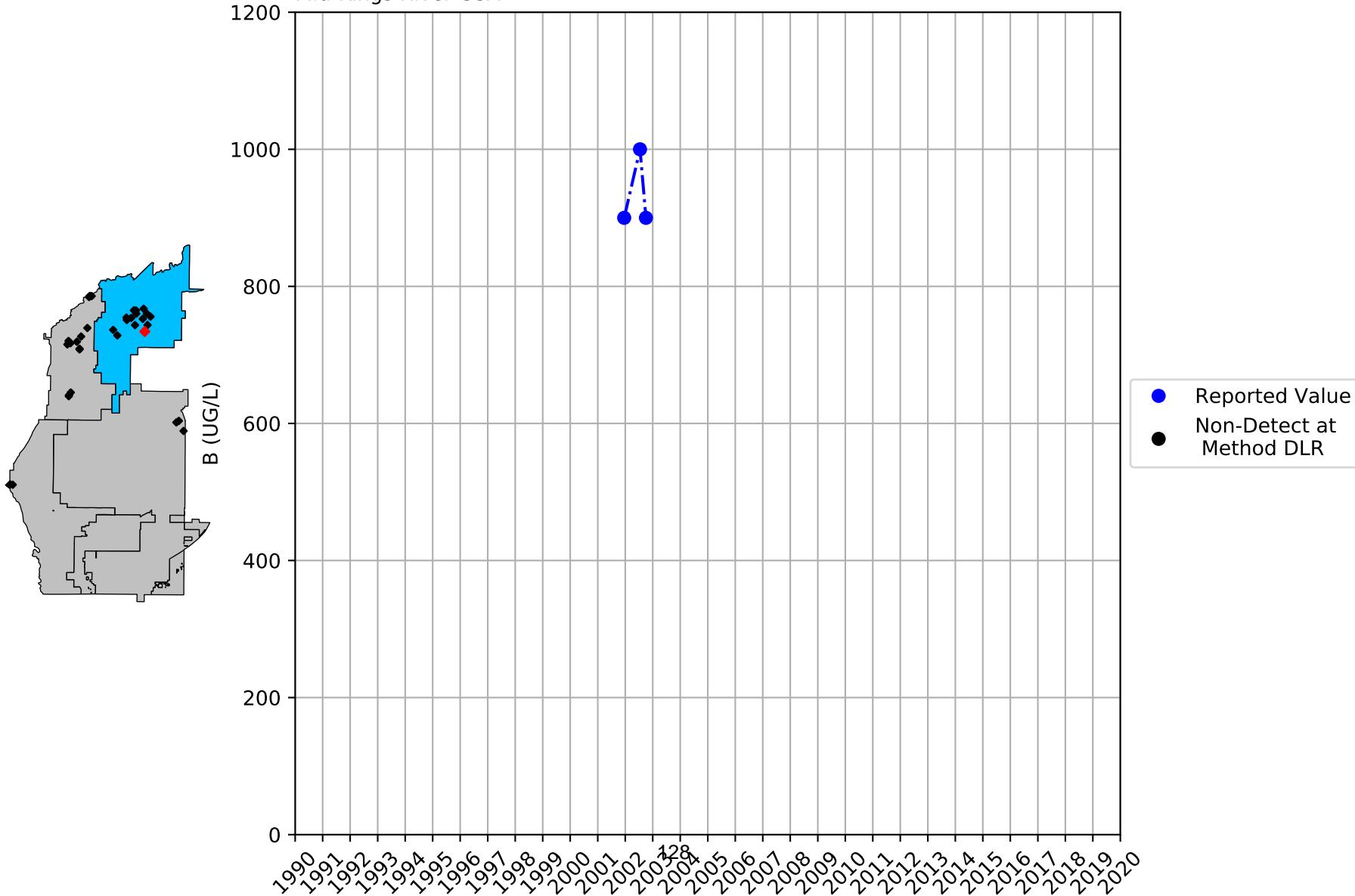
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Mid-Kings River GSA



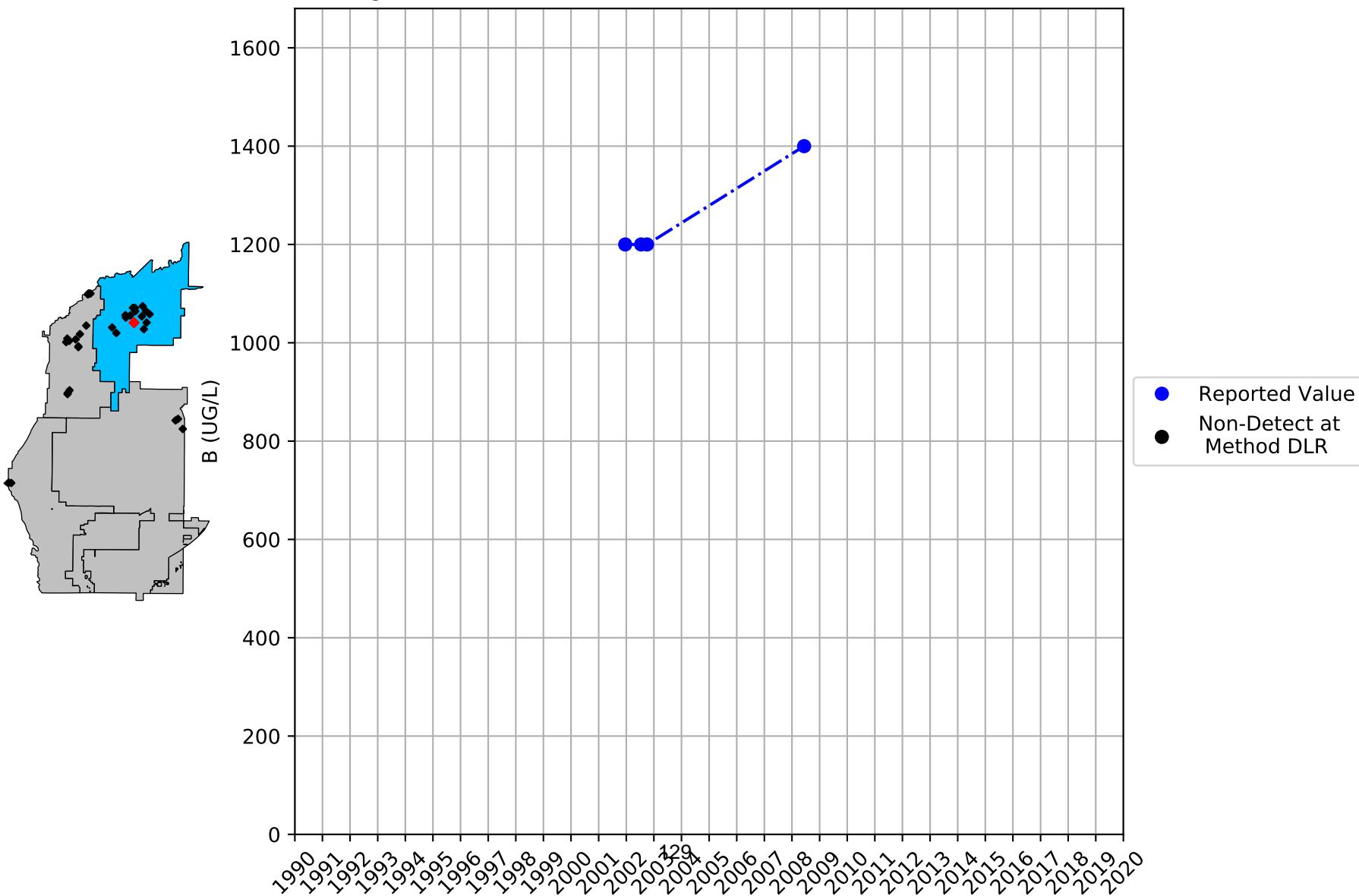
ARSENIC
1610003-043 WELL 49 - RAW
Mid-Kings River GSA



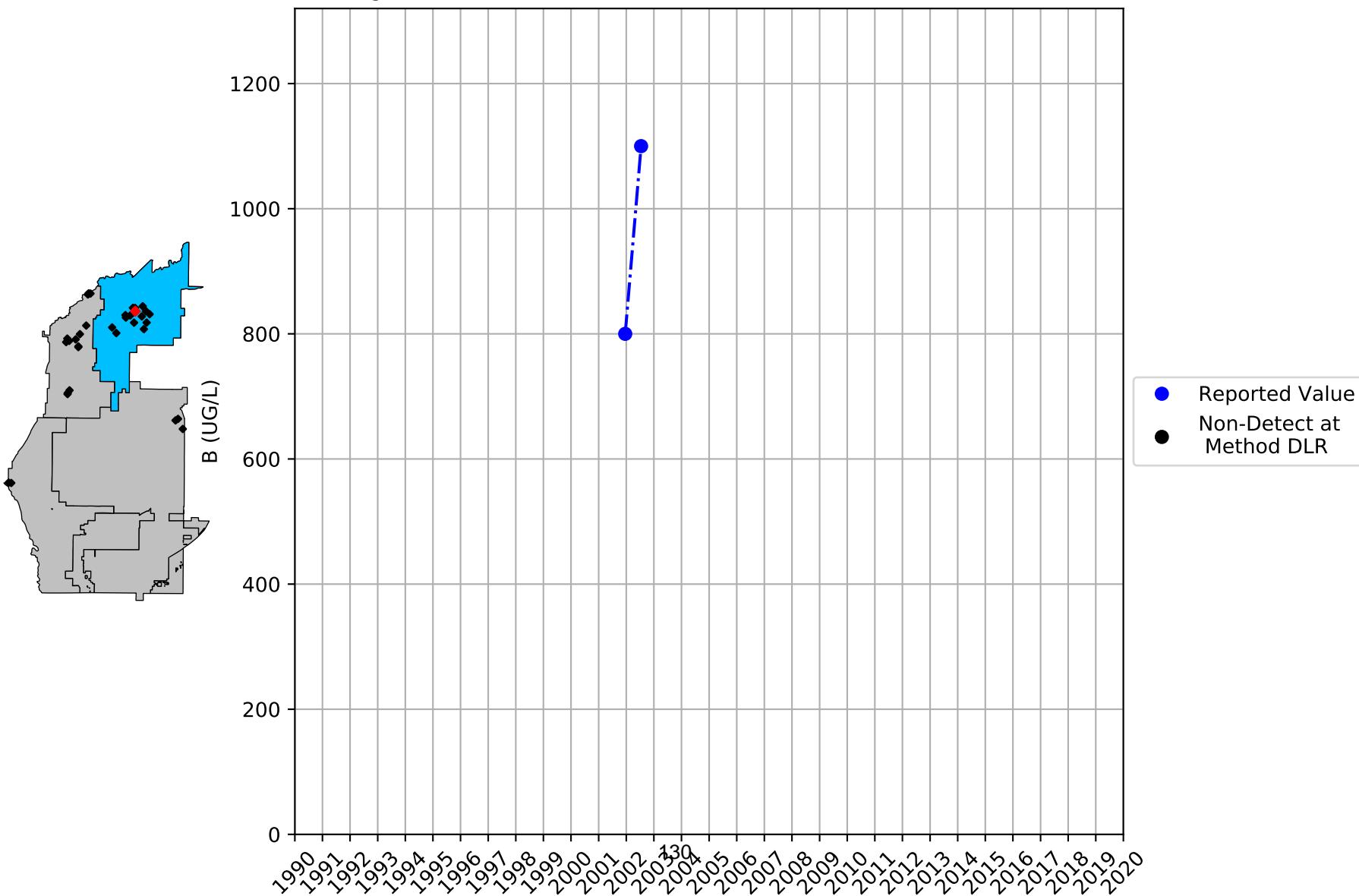
BORON
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



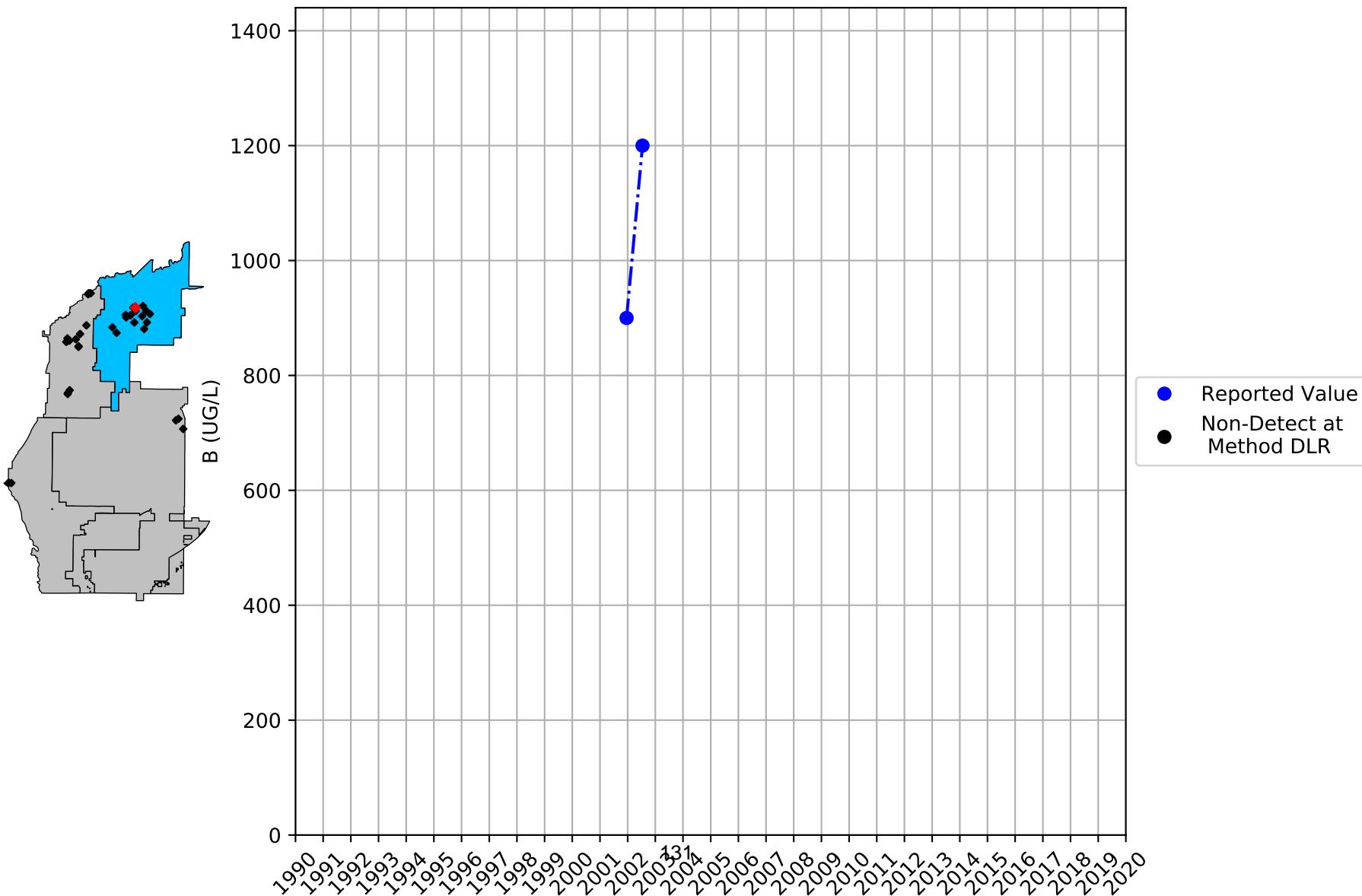
BORON
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



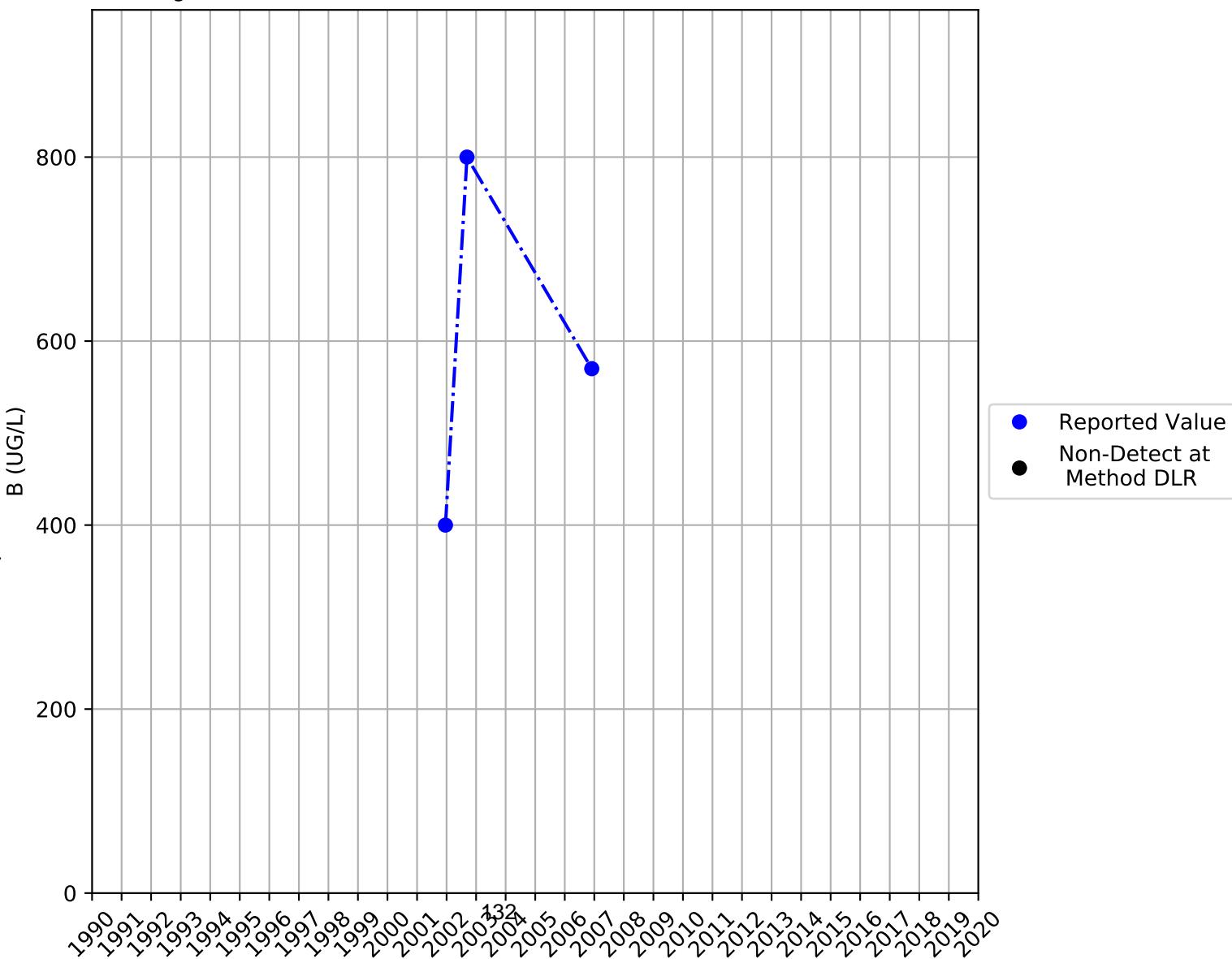
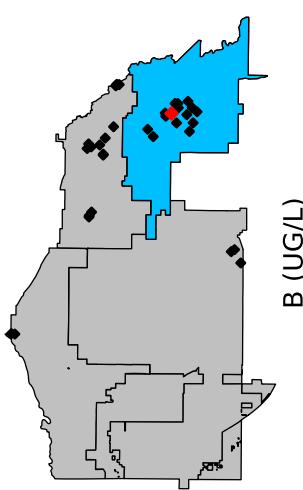
BORON
1610003-031 WELL 38
Mid-Kings River GSA



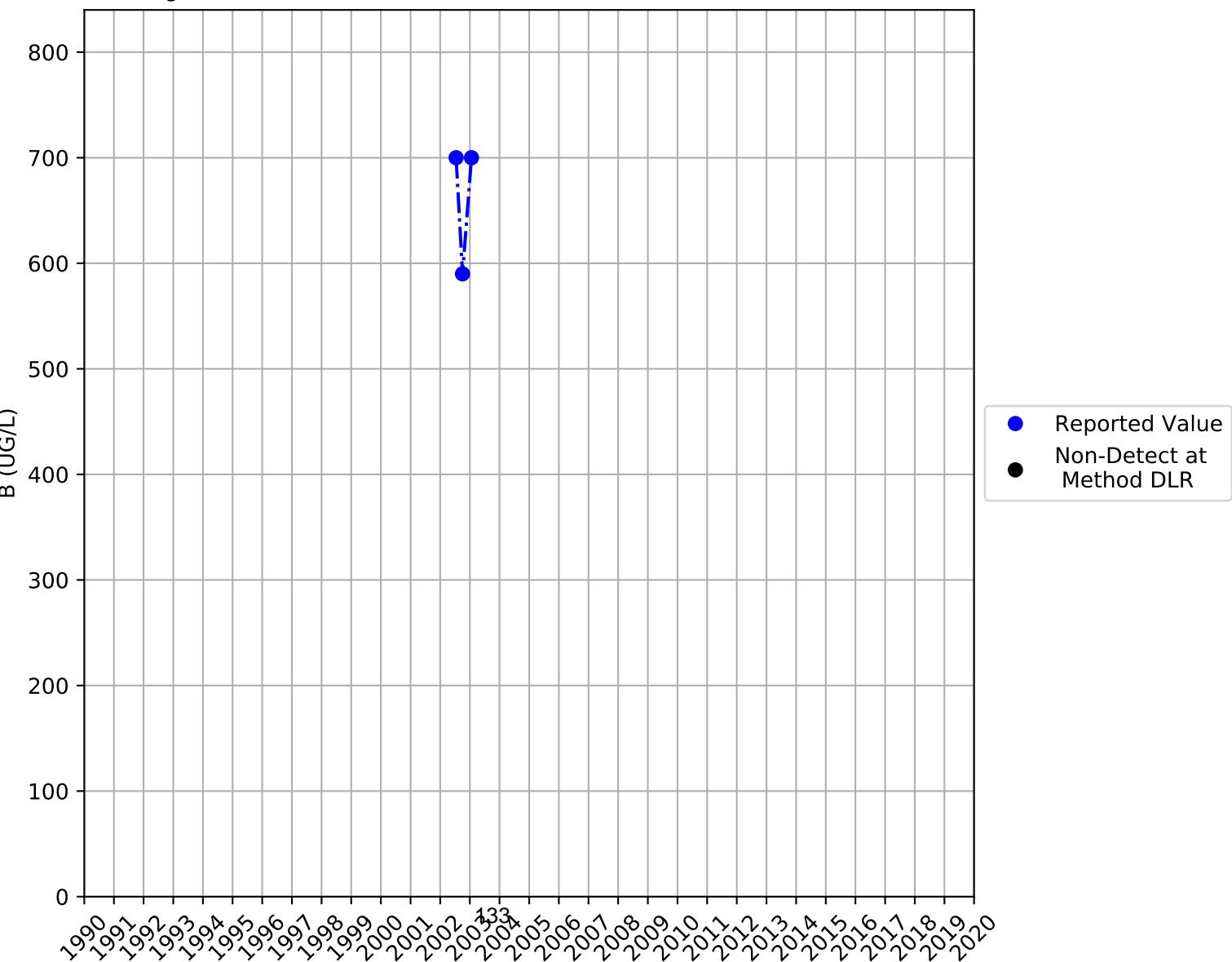
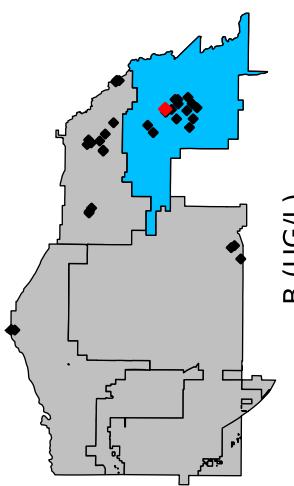
BORON
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



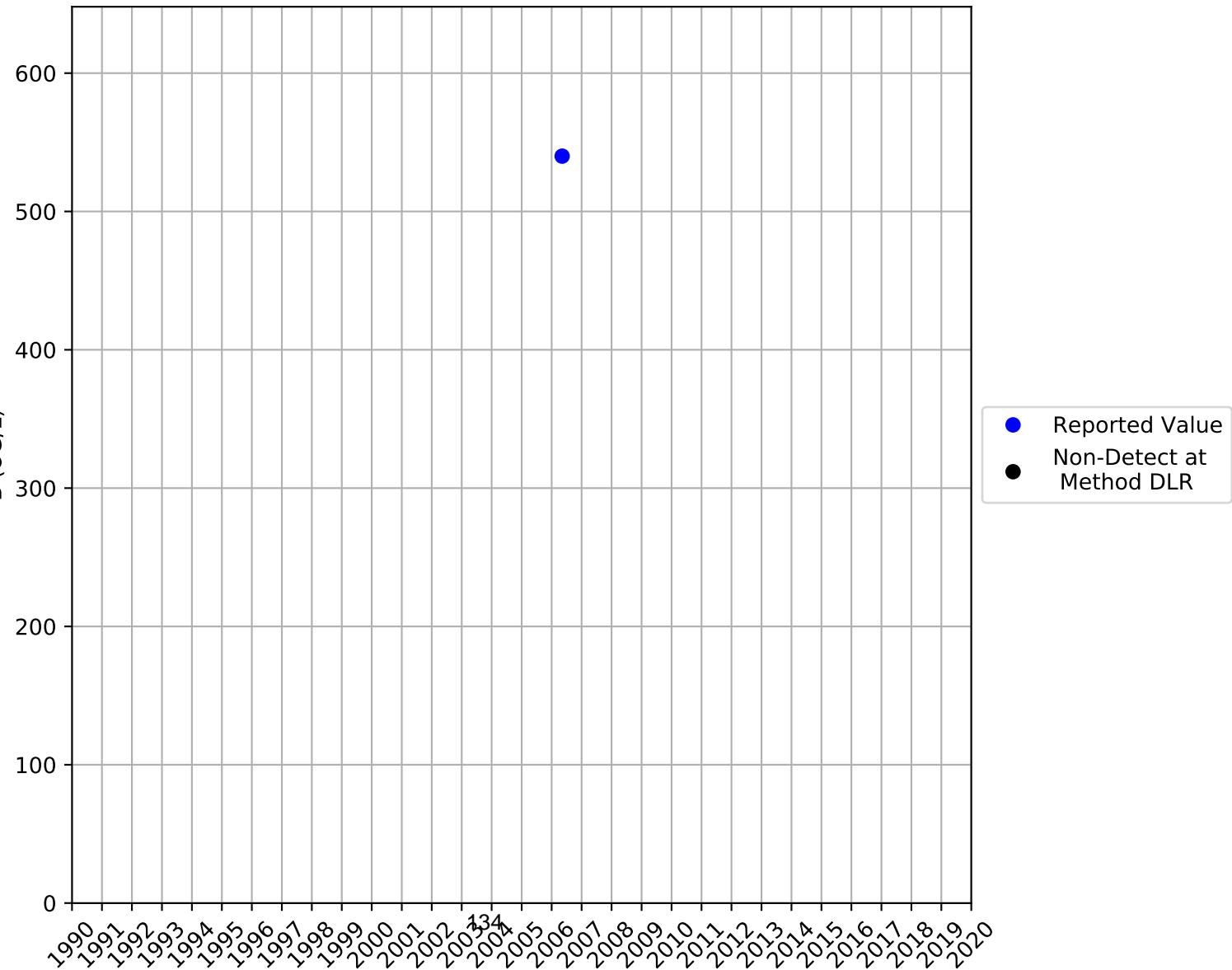
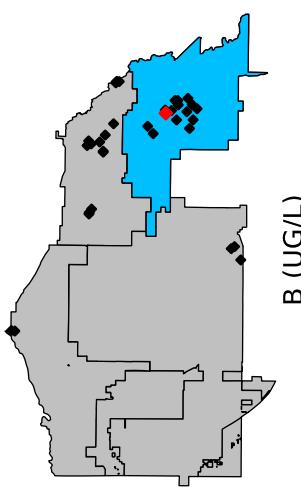
BORON
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



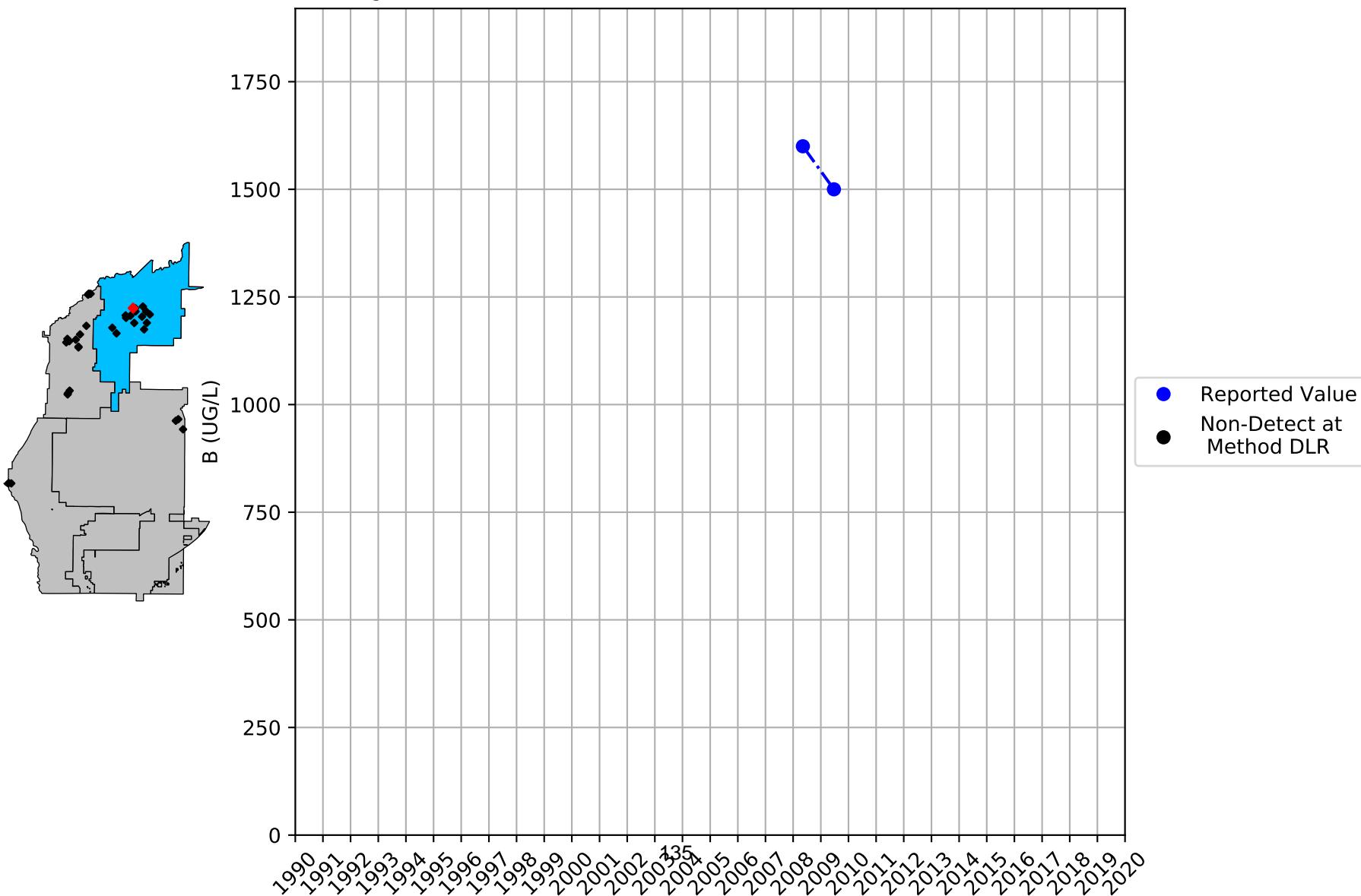
BORON
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



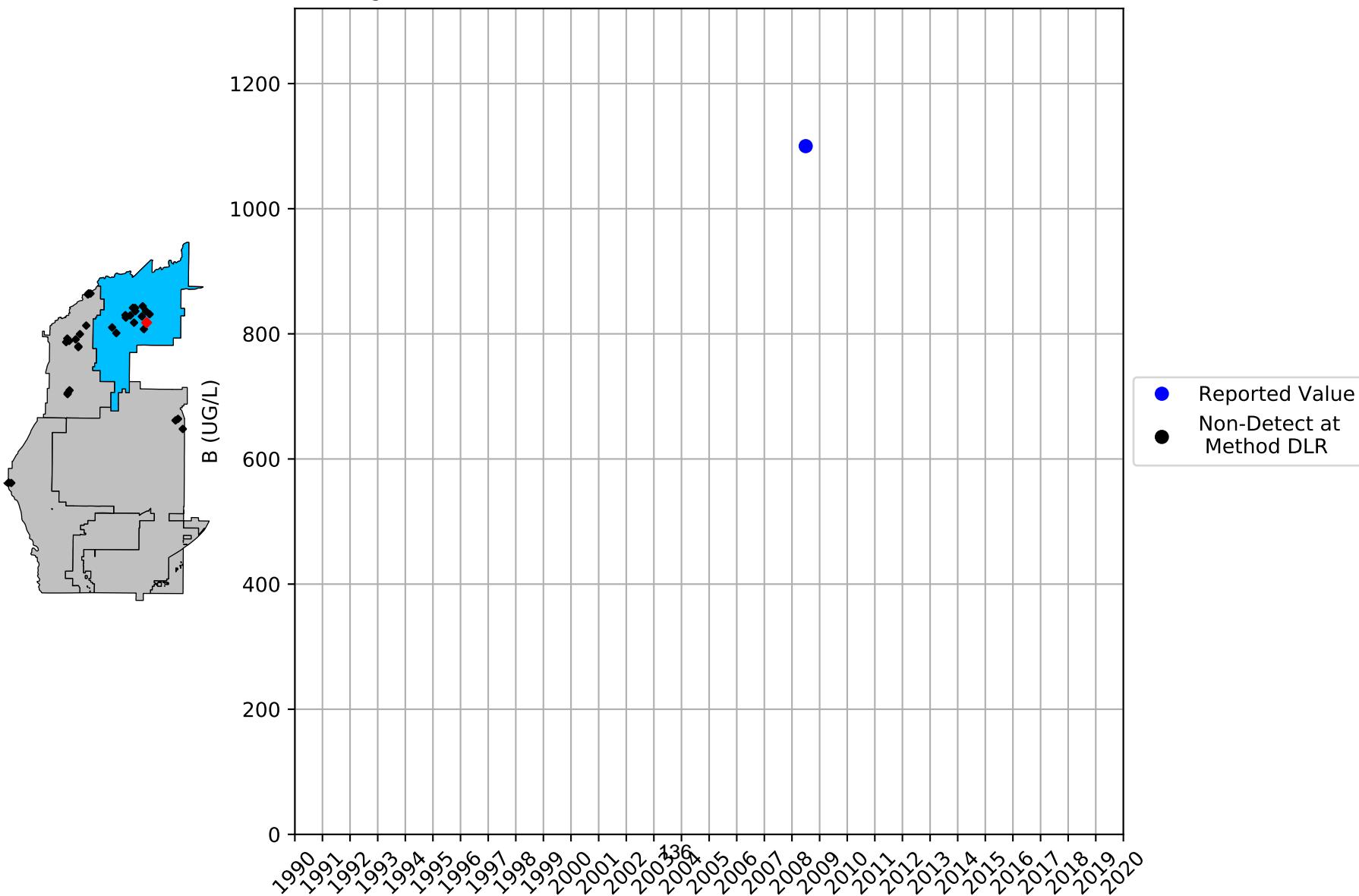
BORON
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



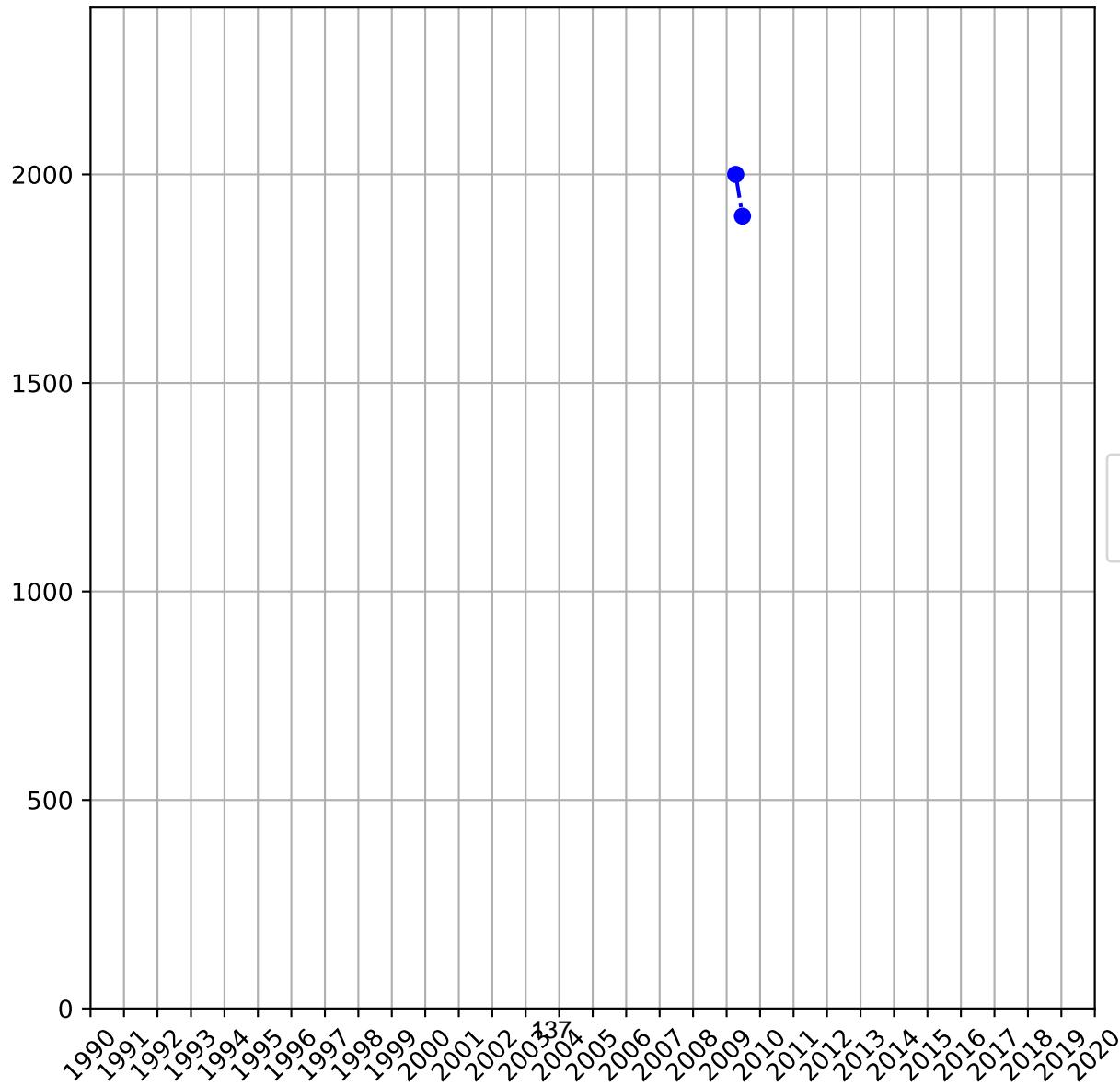
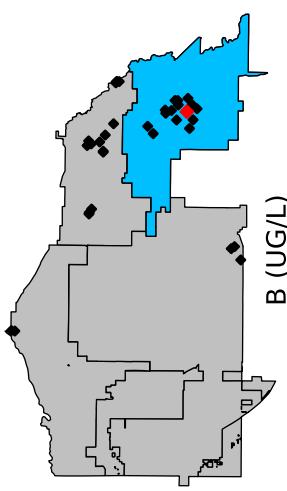
BORON
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



BORON
1610003-039 WELL 45 - RAW
Mid-Kings River GSA

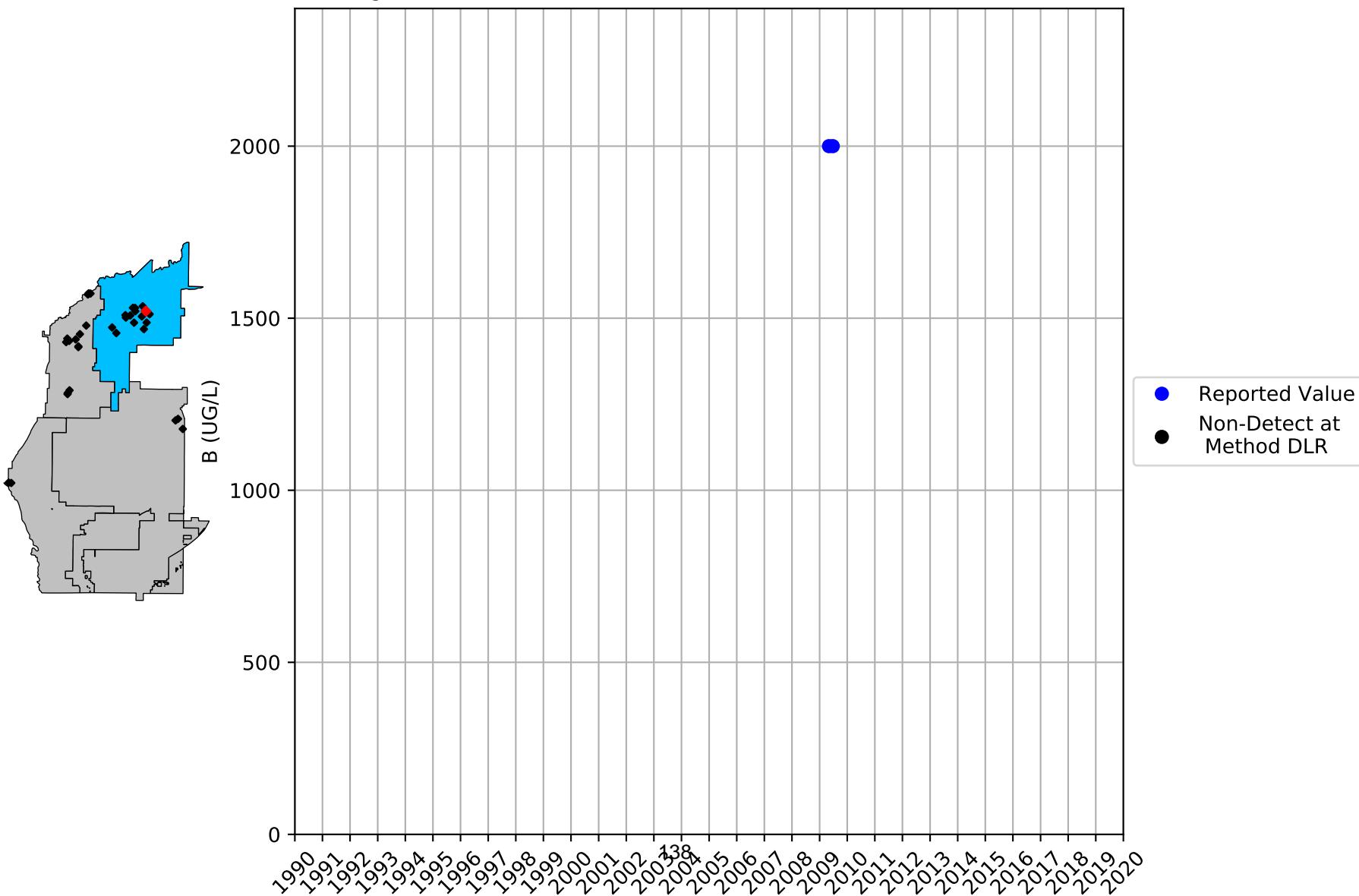


BORON
1610003-040 WELL 46 - RAW
Mid-Kings River GSA

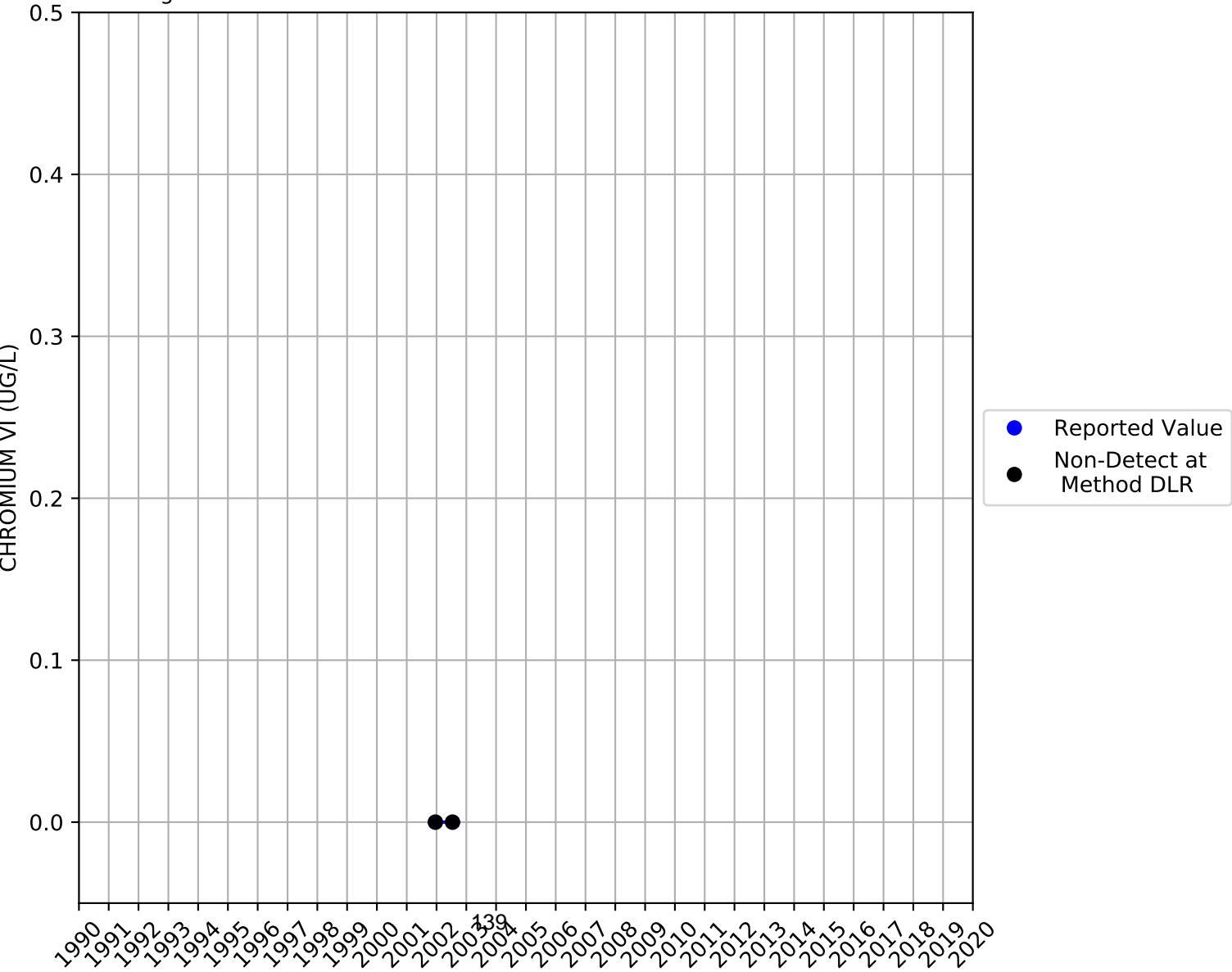
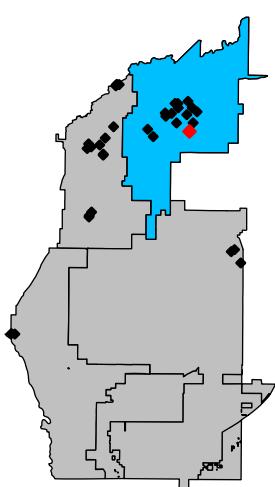


● Reported Value
● Non-Detect at Method DLR

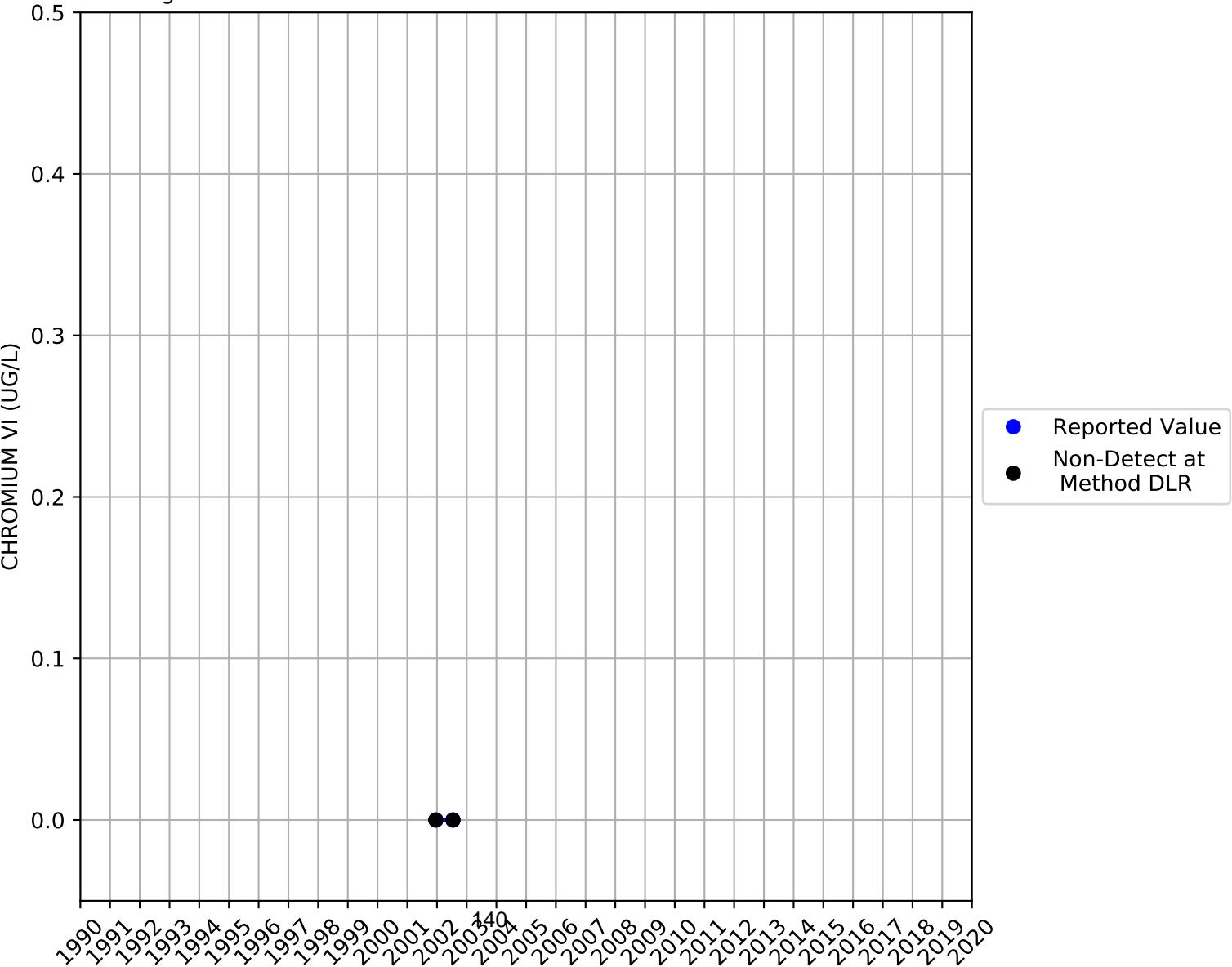
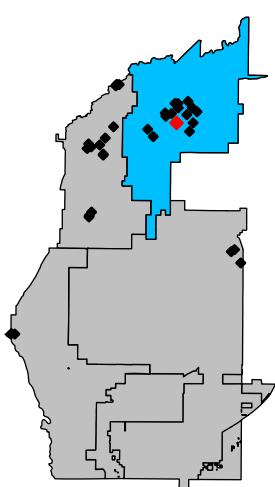
BORON
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



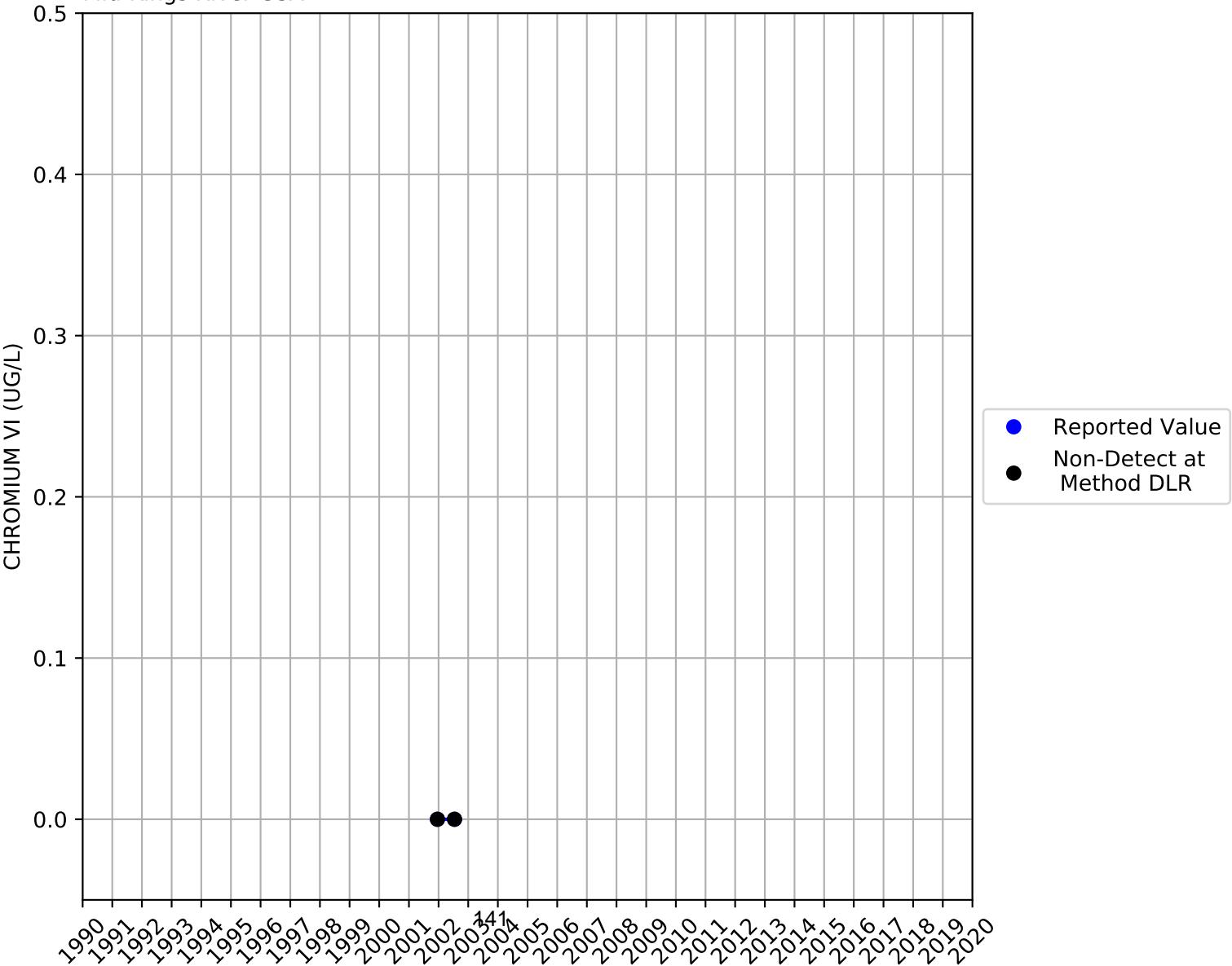
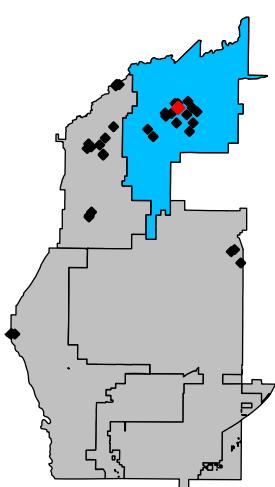
CHROMIUM, HEXAVALENT
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



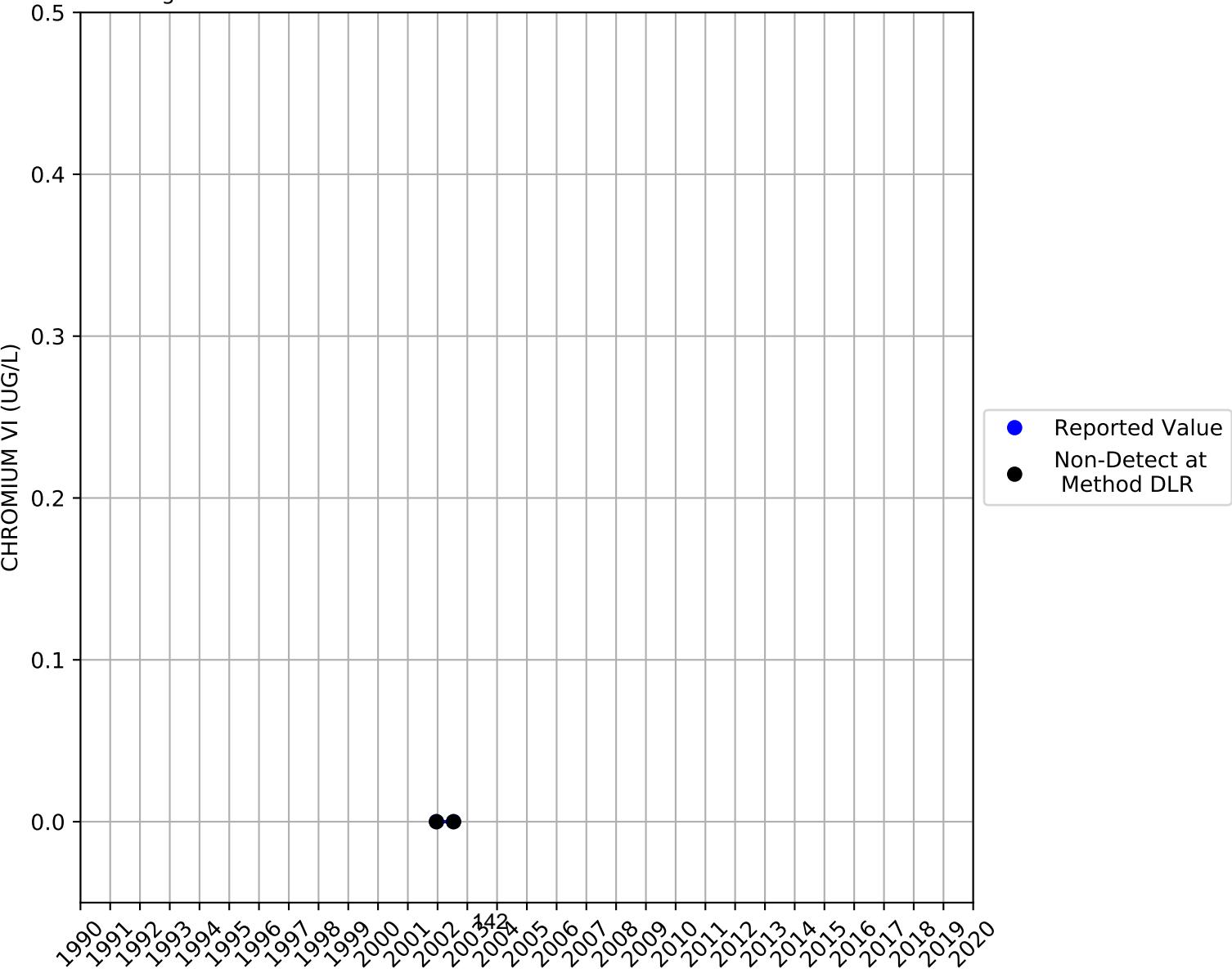
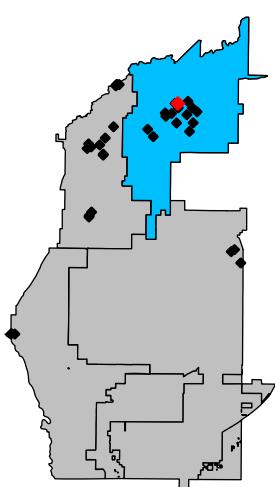
CHROMIUM, HEXAVALENT
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



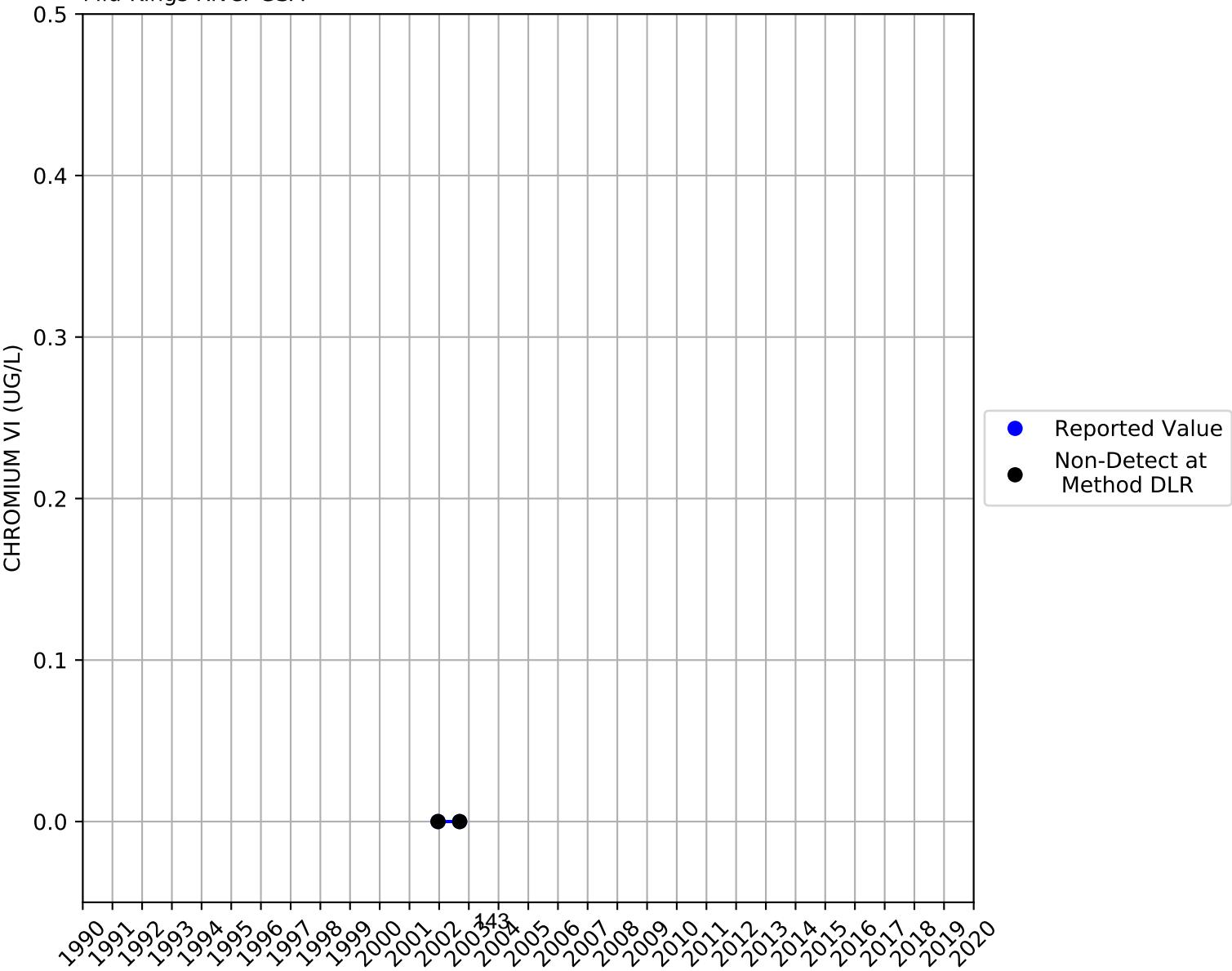
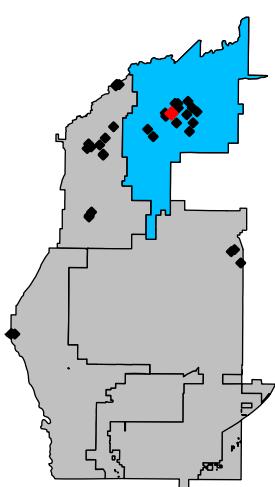
CHROMIUM, HEXAVALENT
1610003-031 WELL 38
Mid-Kings River GSA



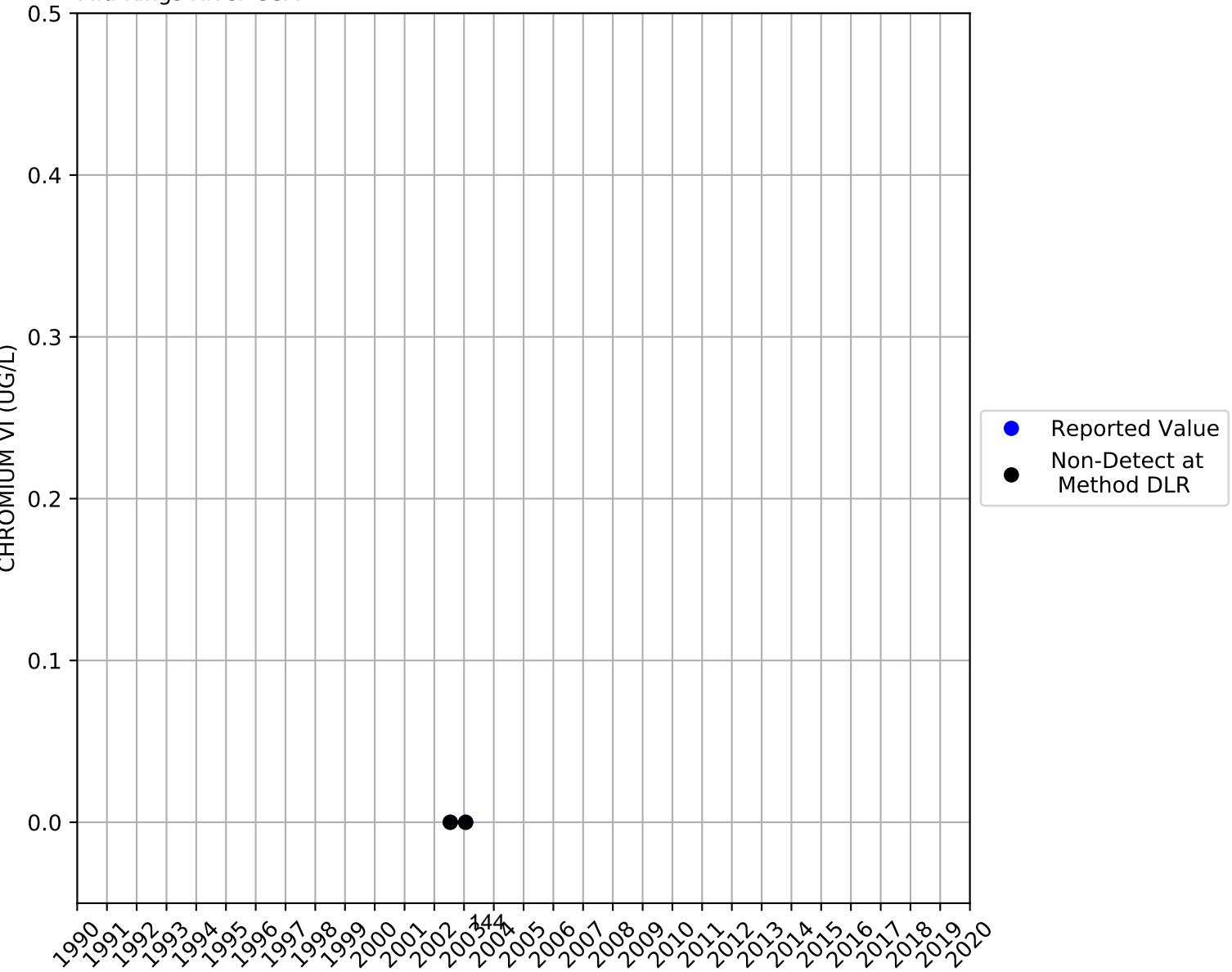
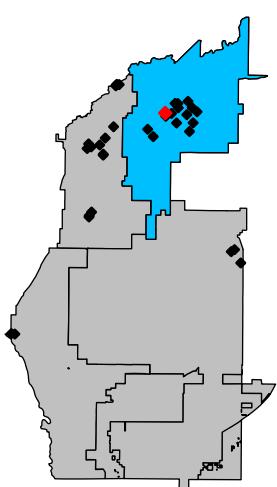
CHROMIUM, HEXAVALENT
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



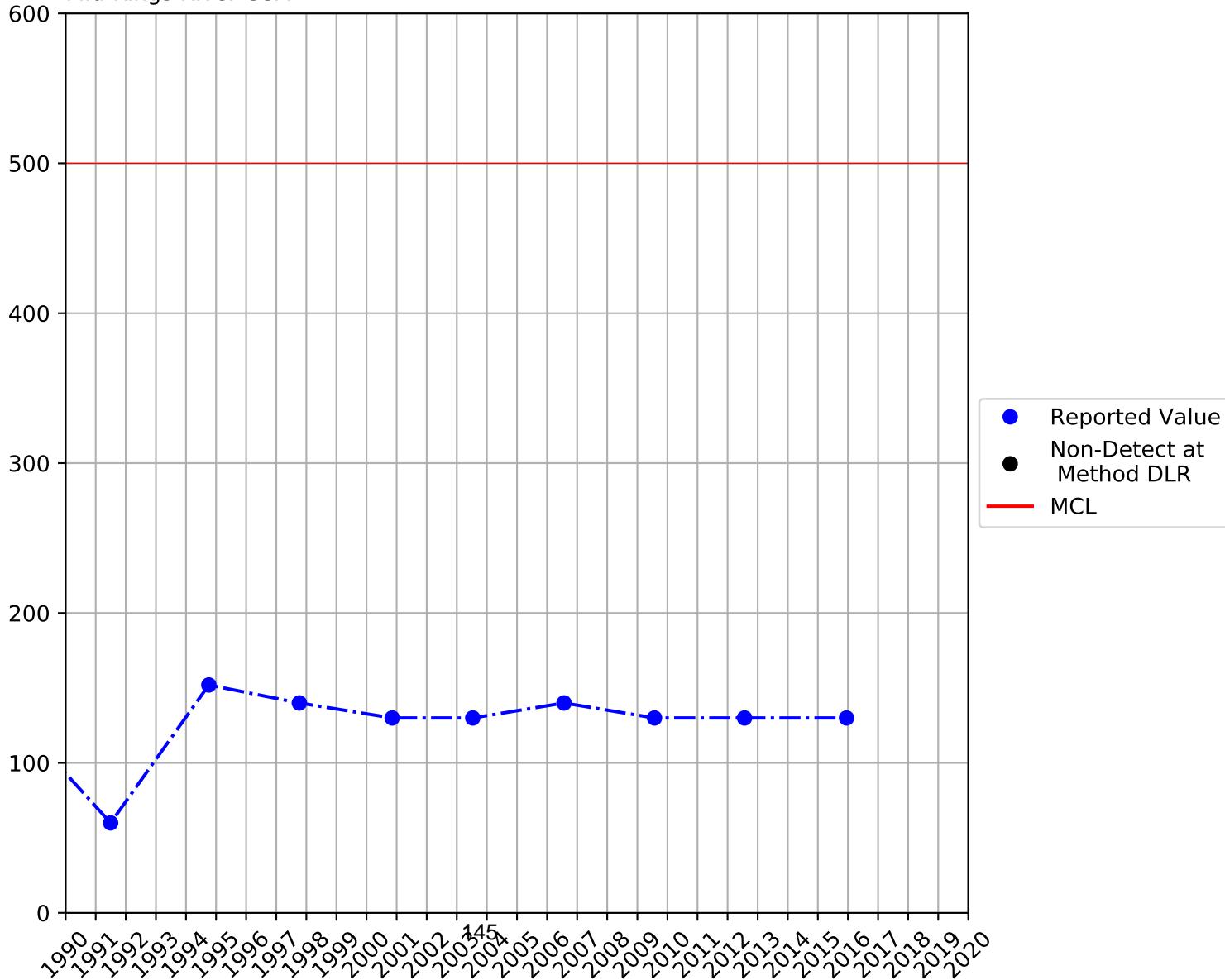
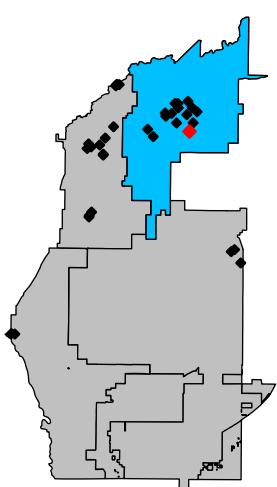
CHROMIUM, HEXAVALENT
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



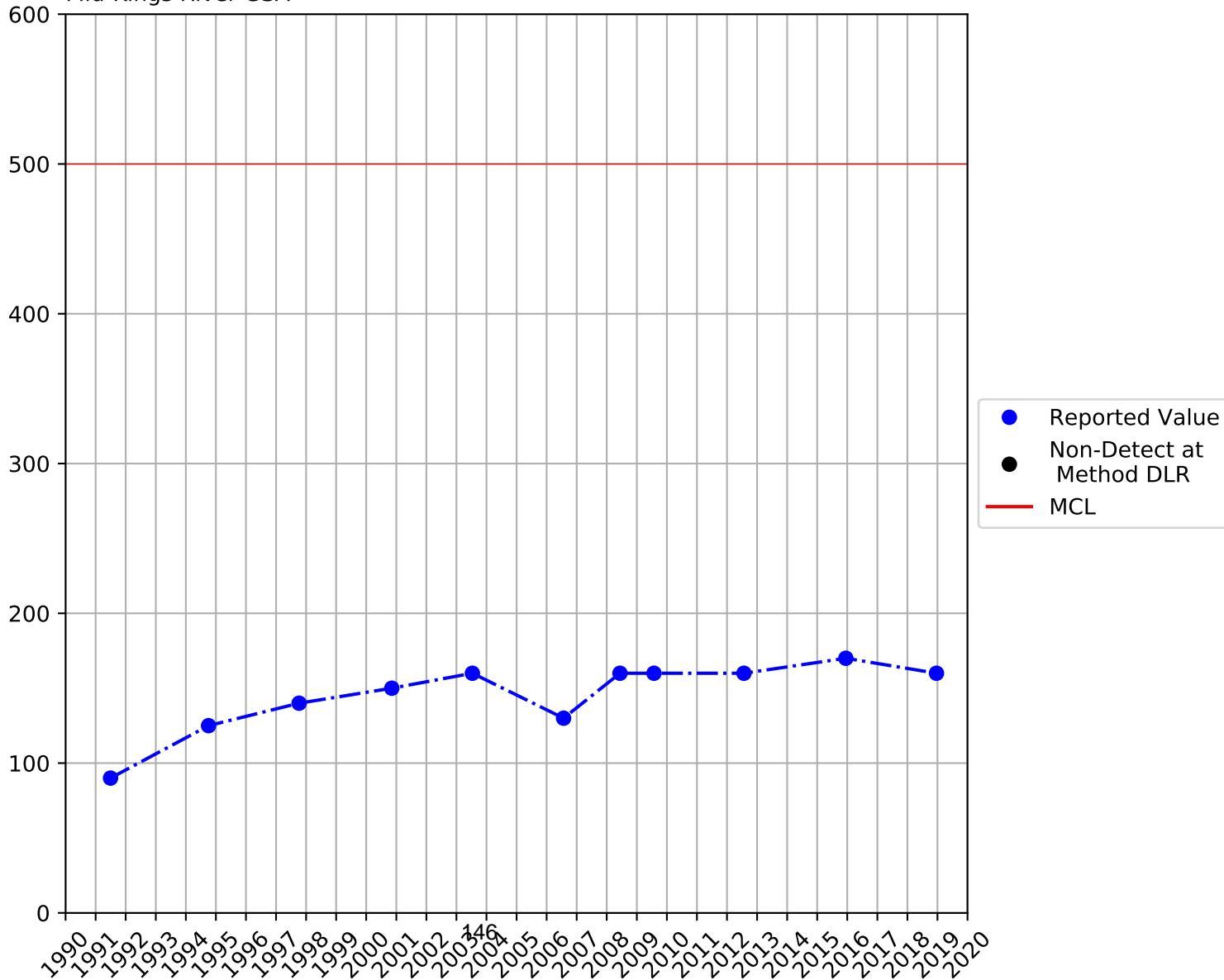
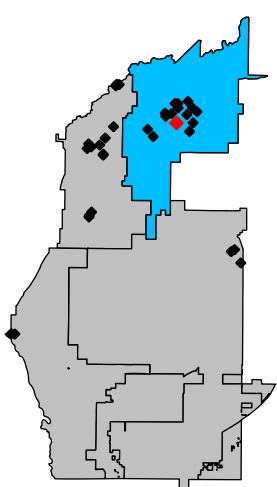
CHROMIUM, HEXAVALENT
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



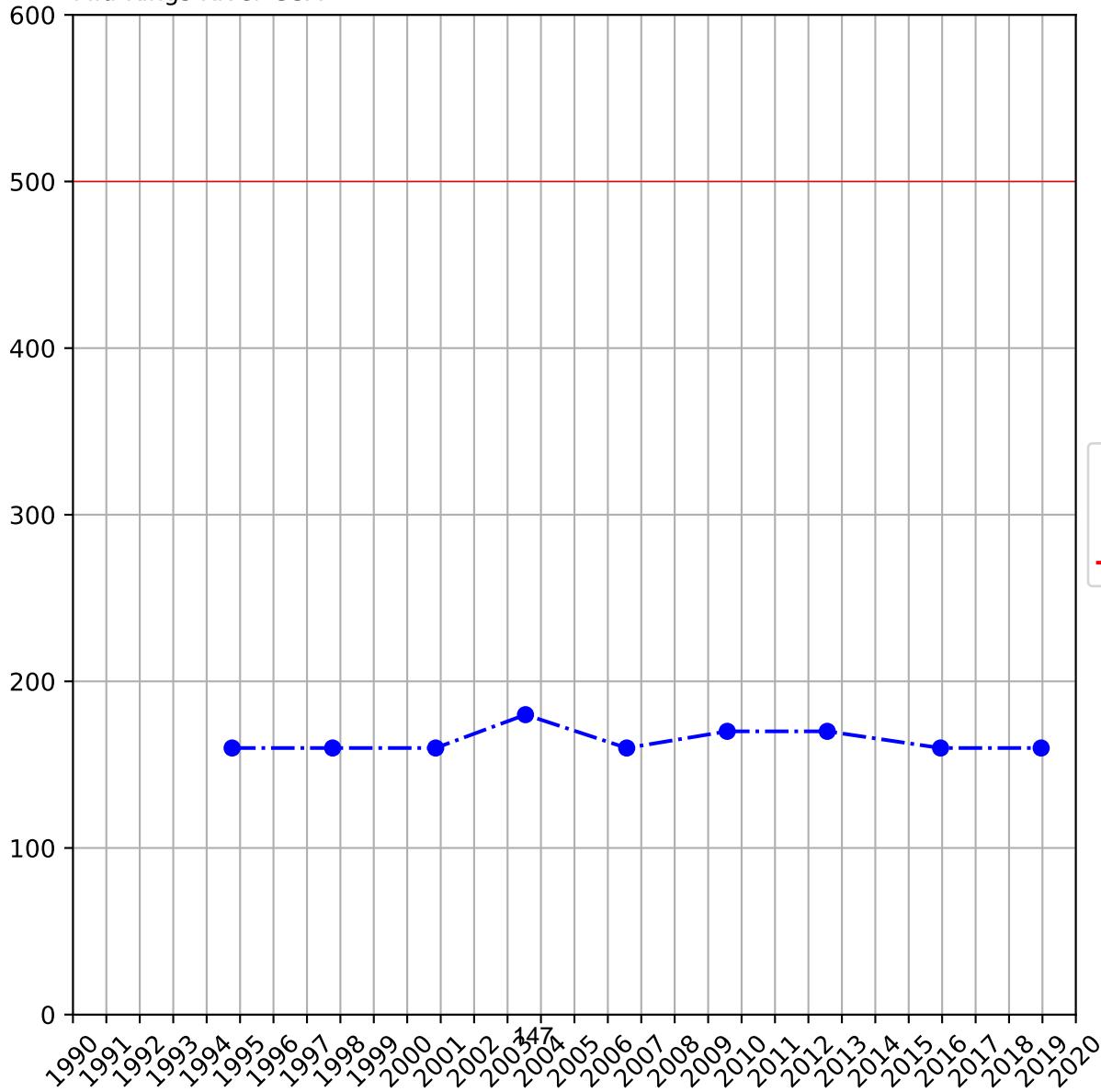
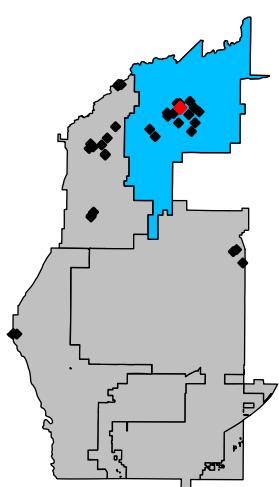
CHLORIDE
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



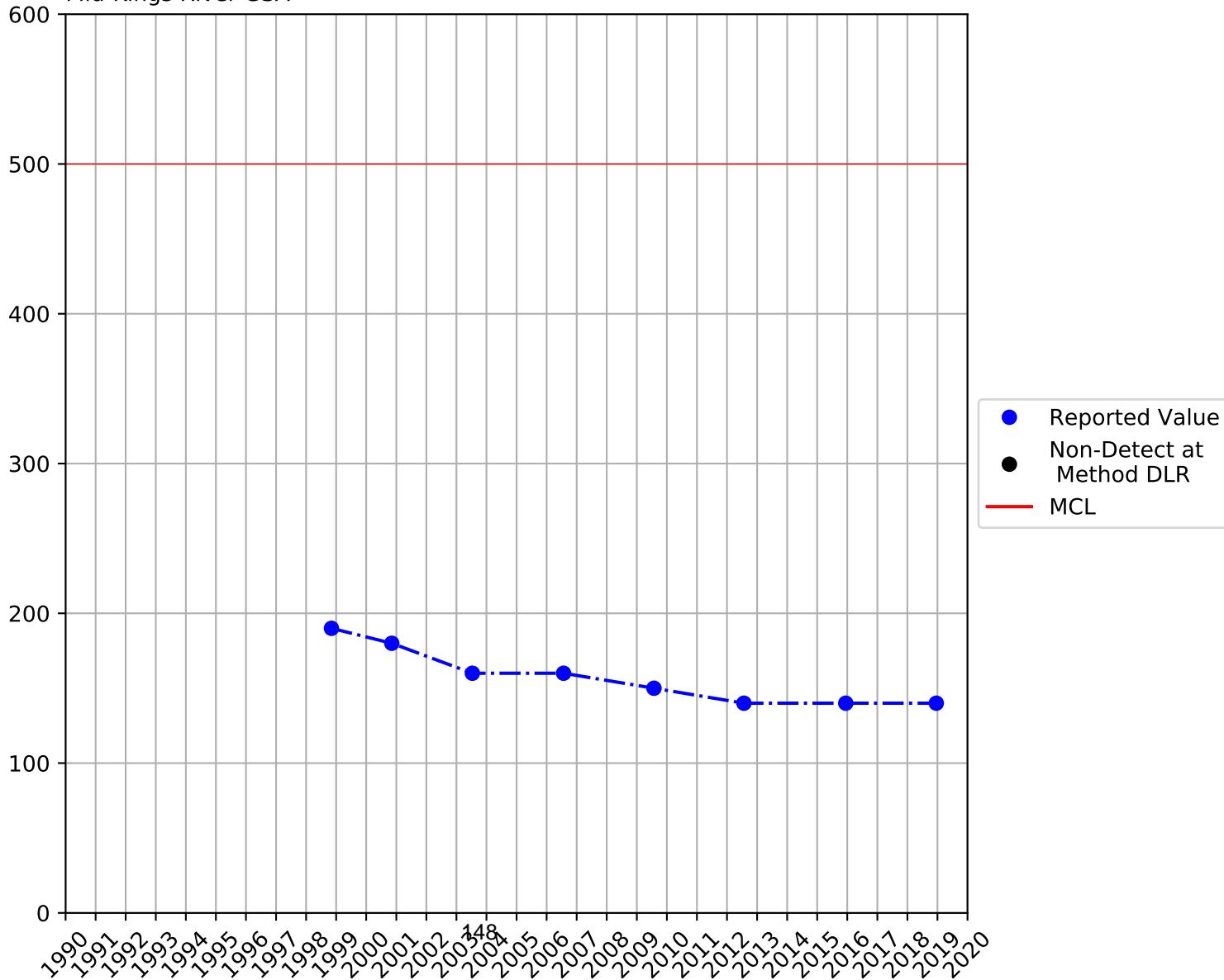
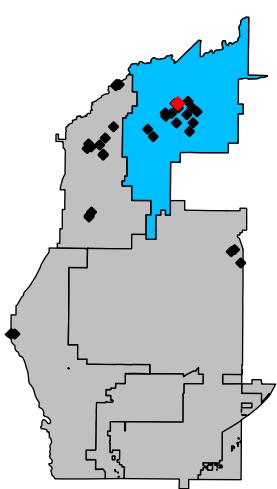
CHLORIDE
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



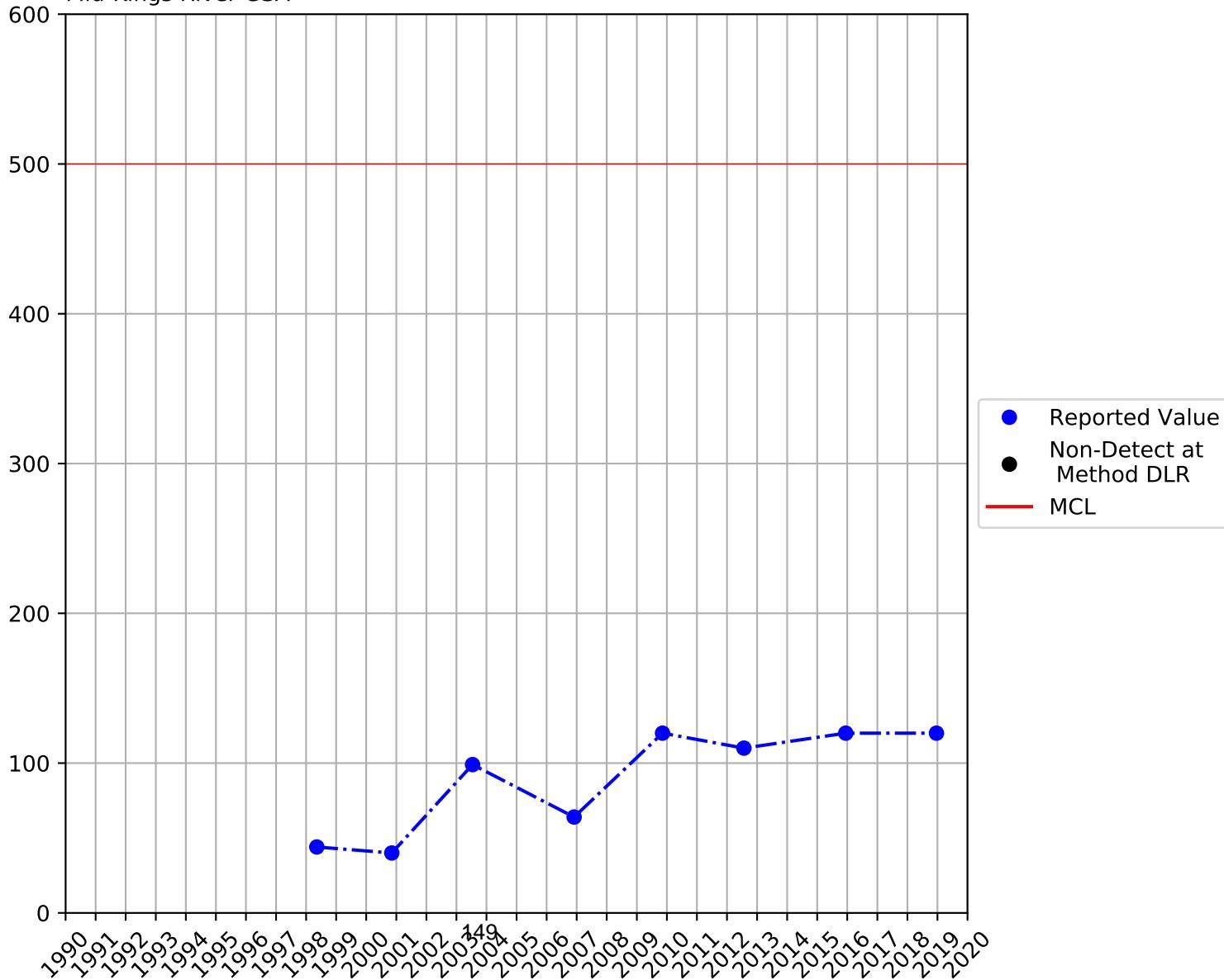
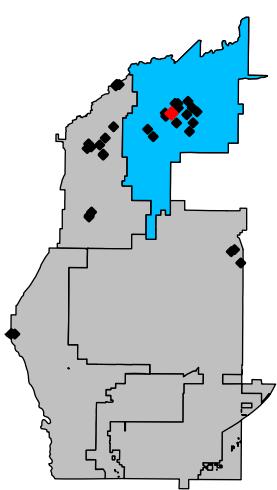
CHLORIDE
1610003-031 WELL 38
Mid-Kings River GSA



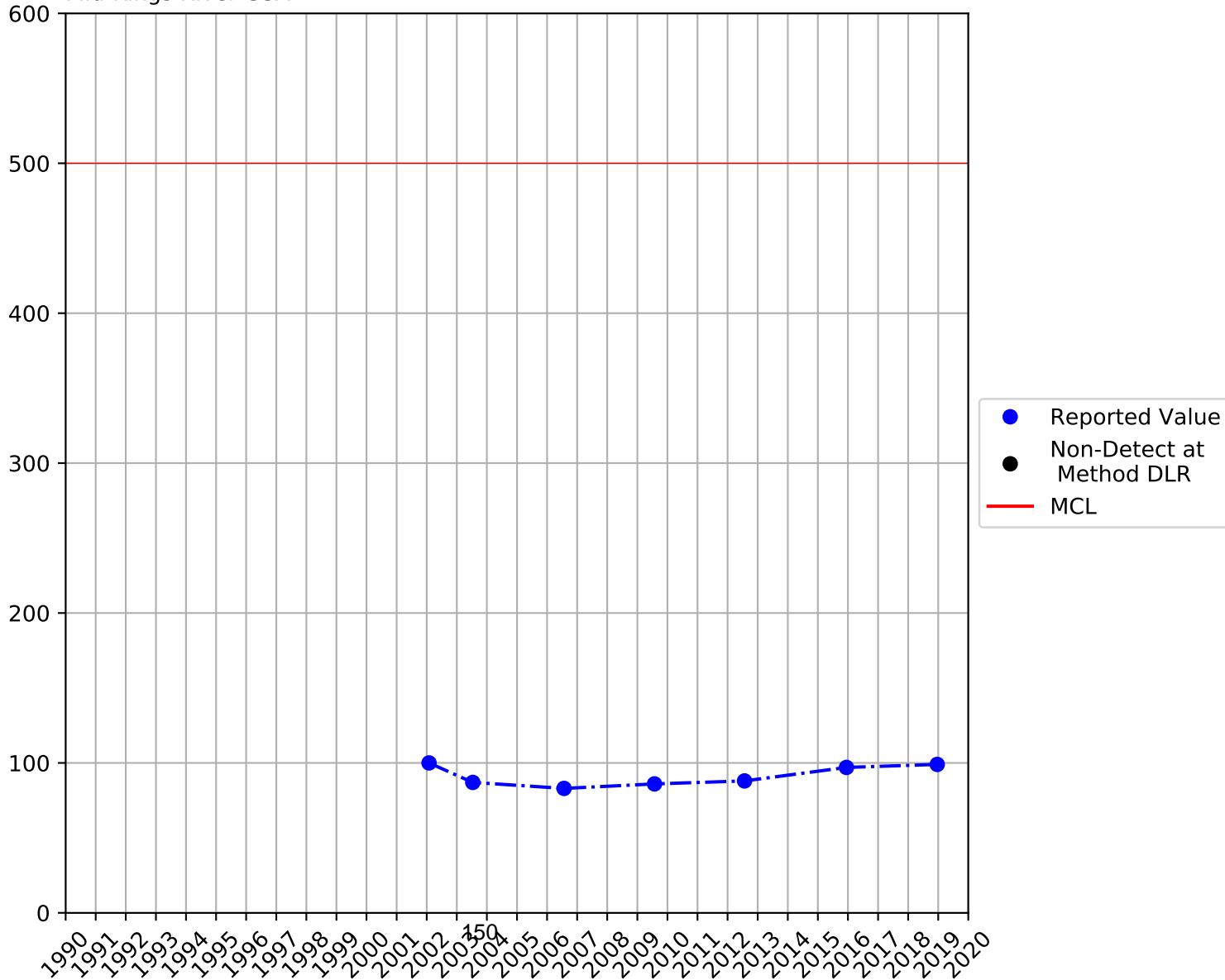
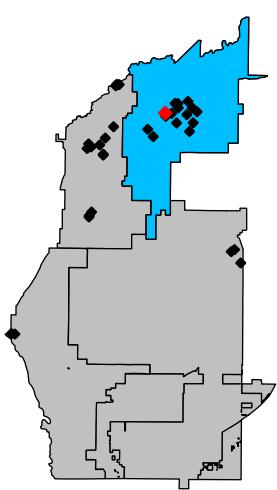
CHLORIDE
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



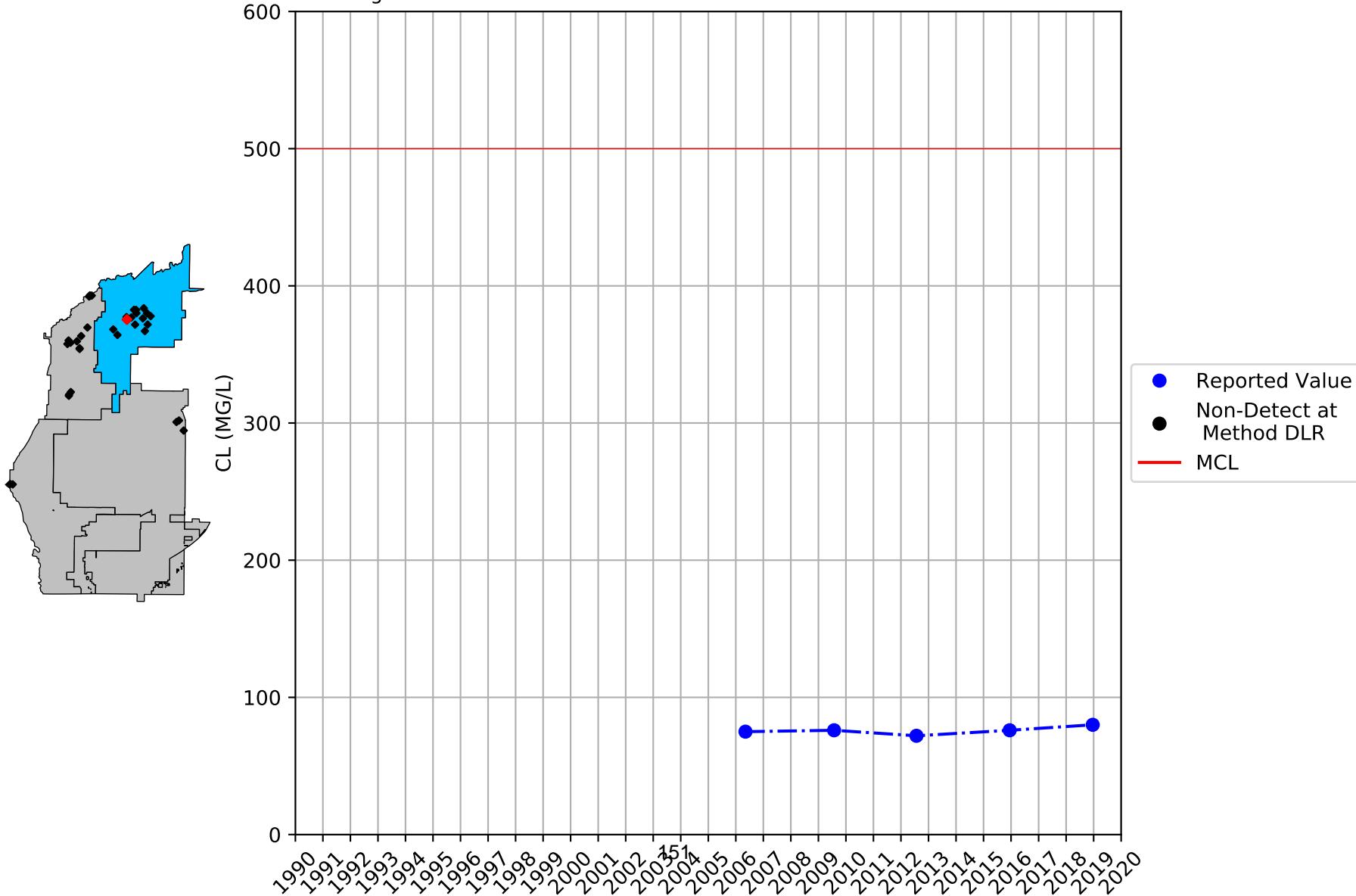
CHLORIDE
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



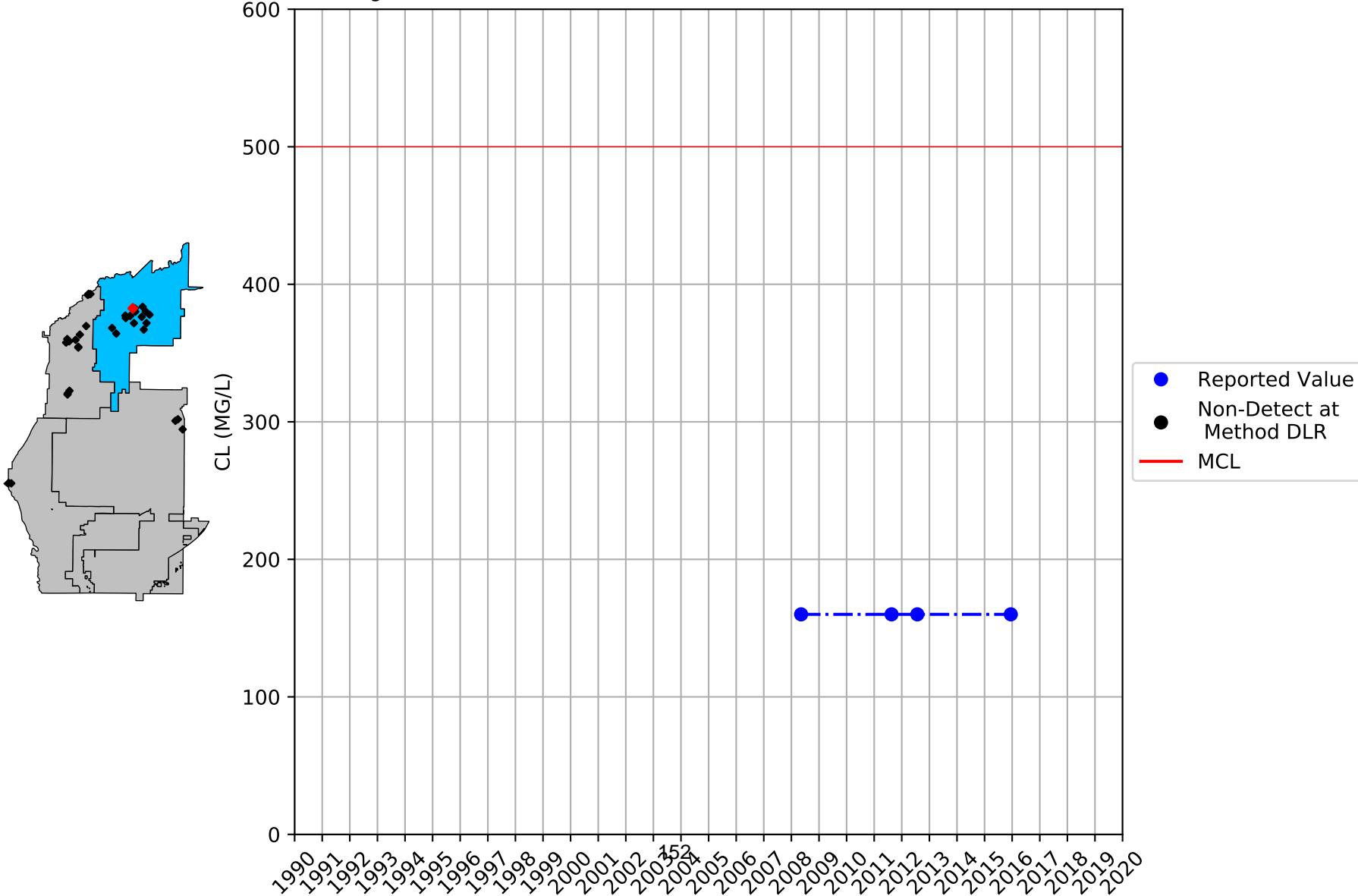
CHLORIDE
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



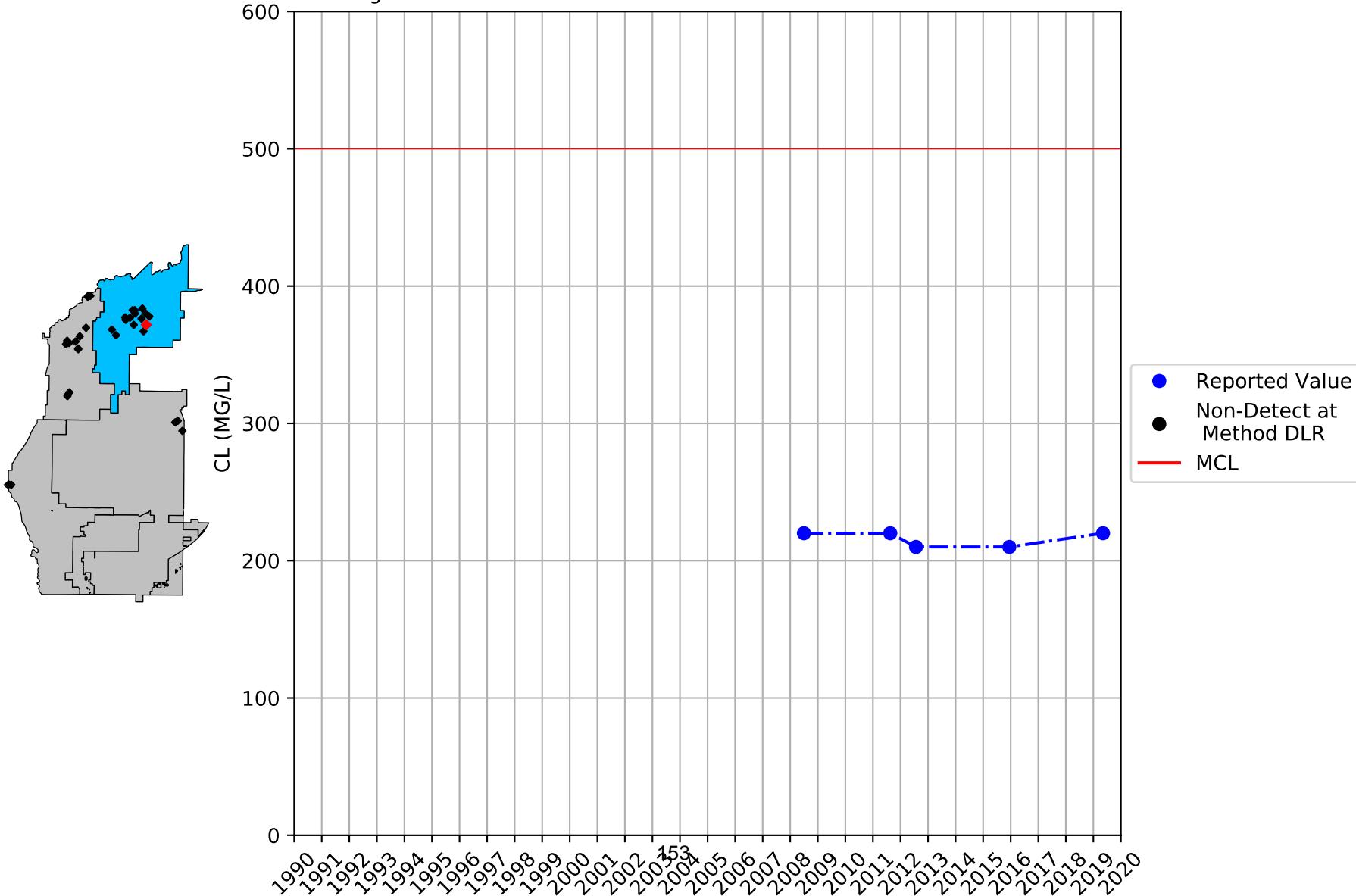
CHLORIDE
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



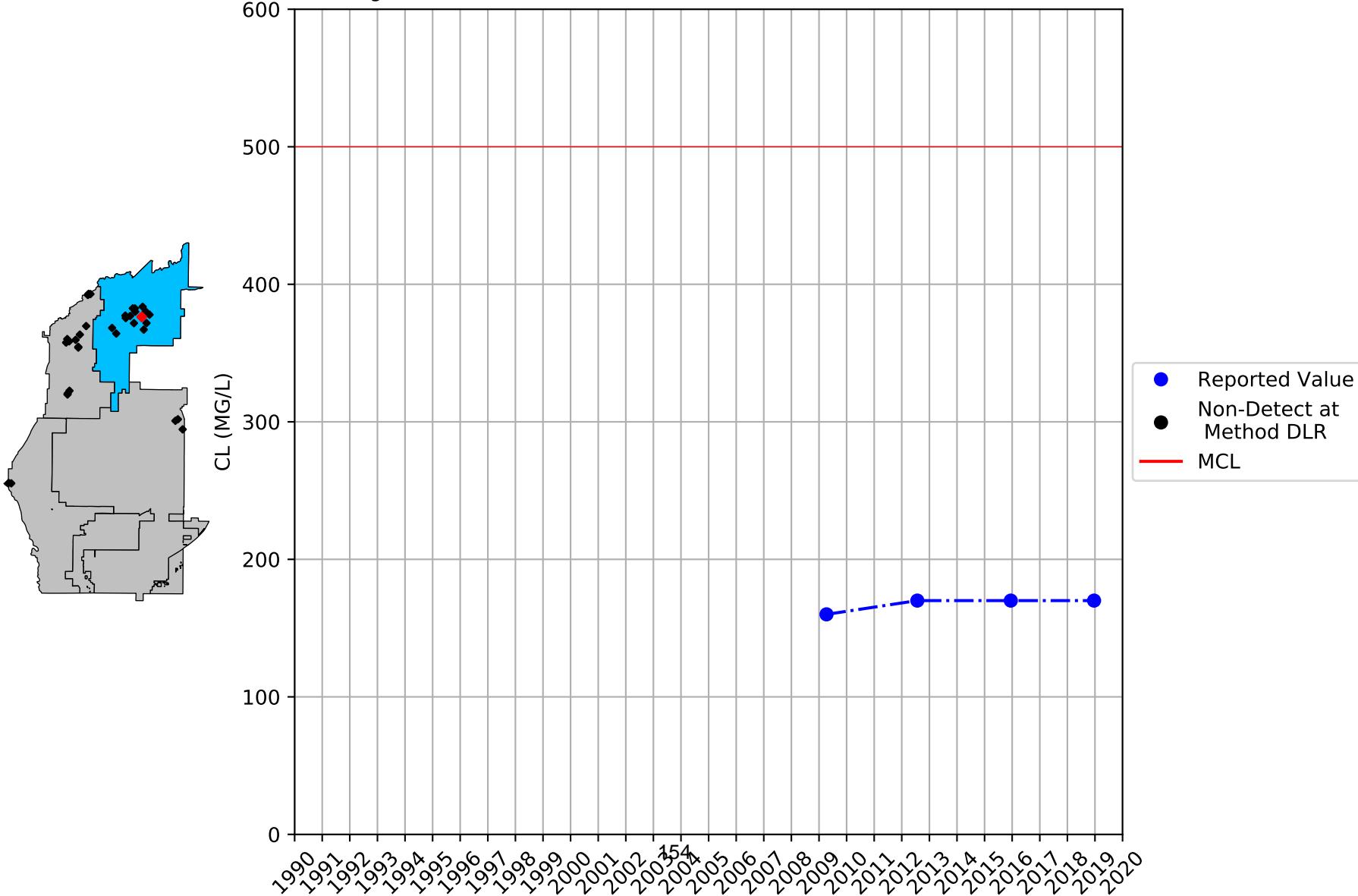
CHLORIDE
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



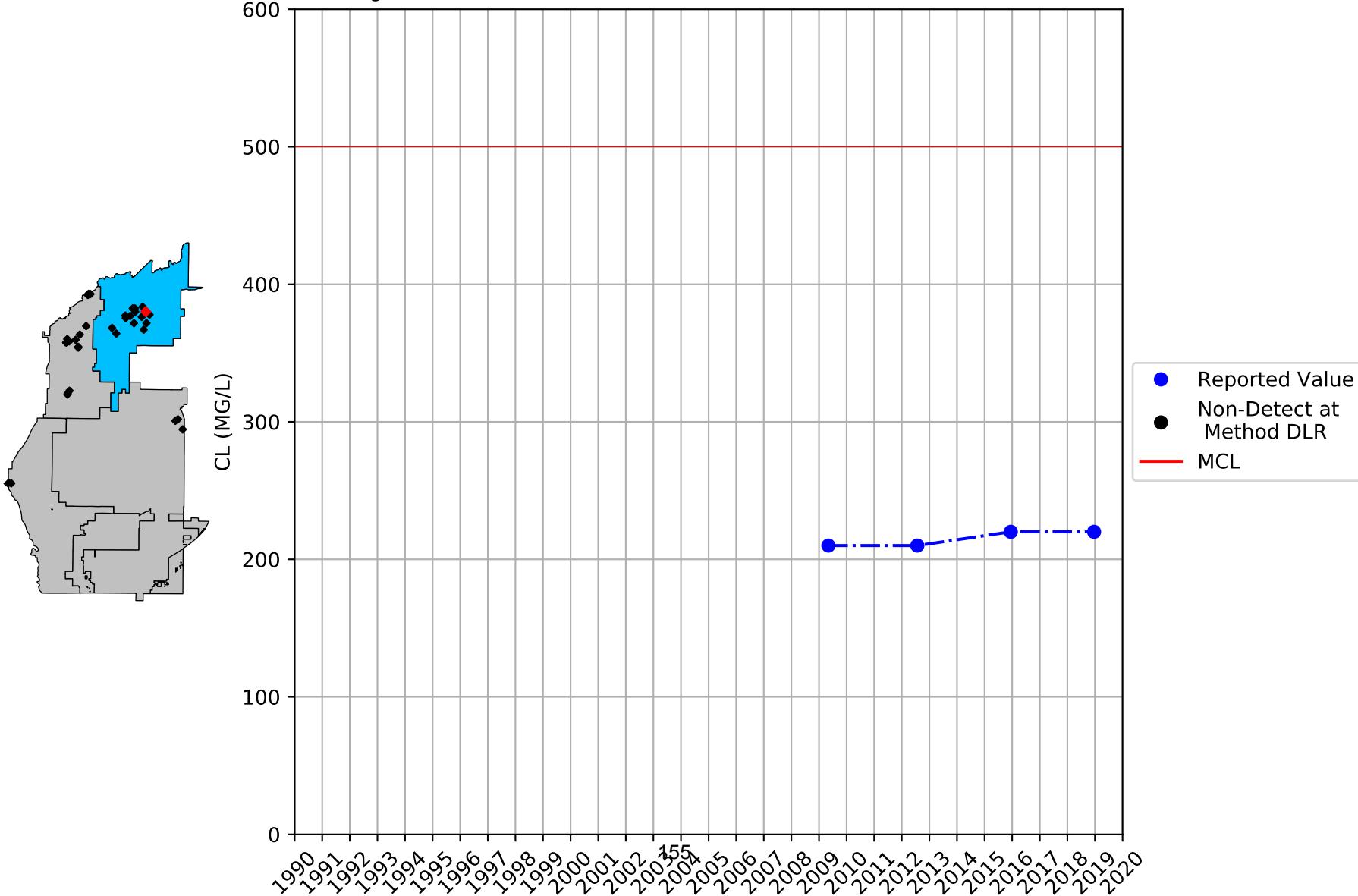
CHLORIDE
1610003-039 WELL 45 - RAW
Mid-Kings River GSA



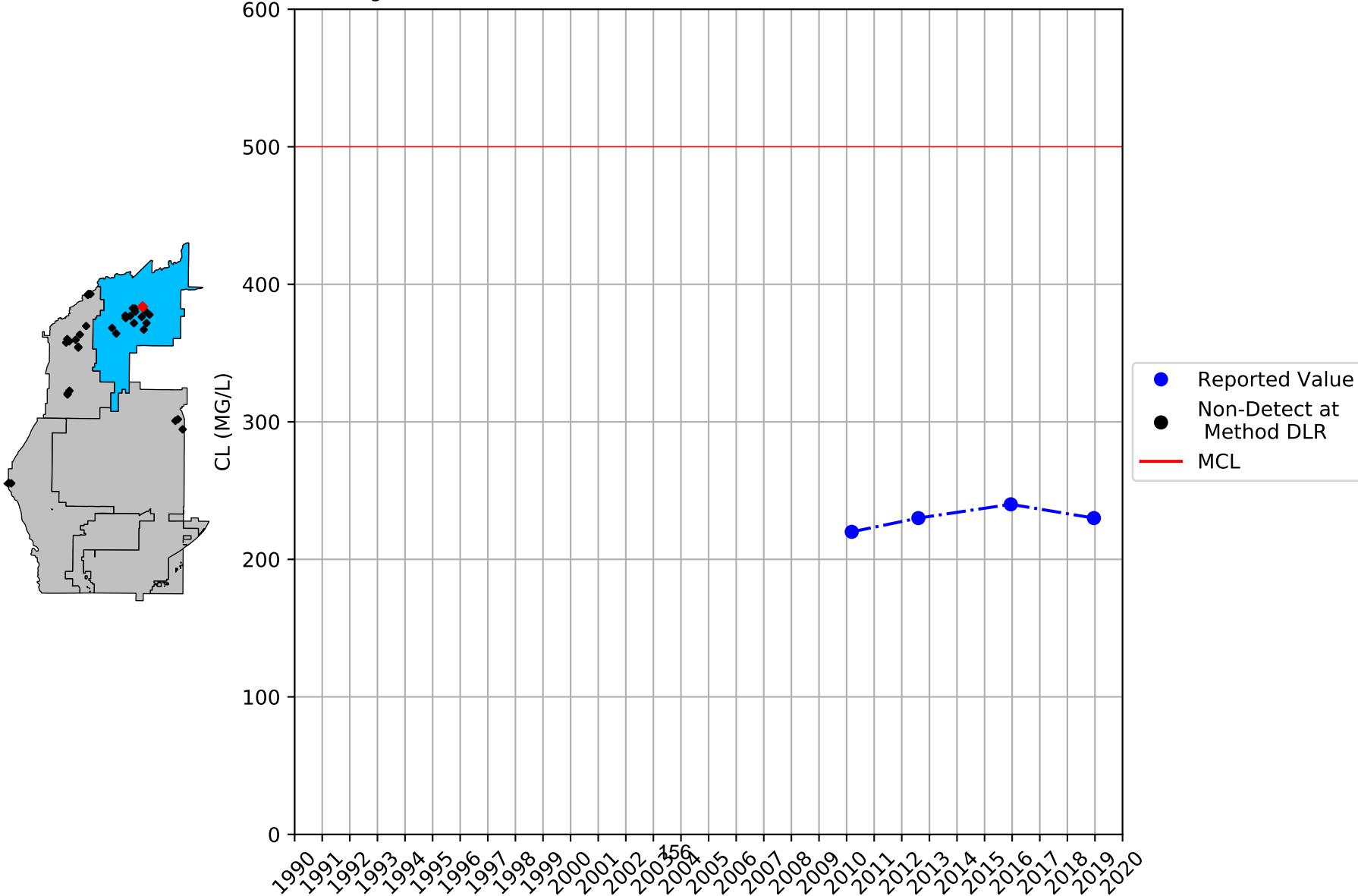
CHLORIDE
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



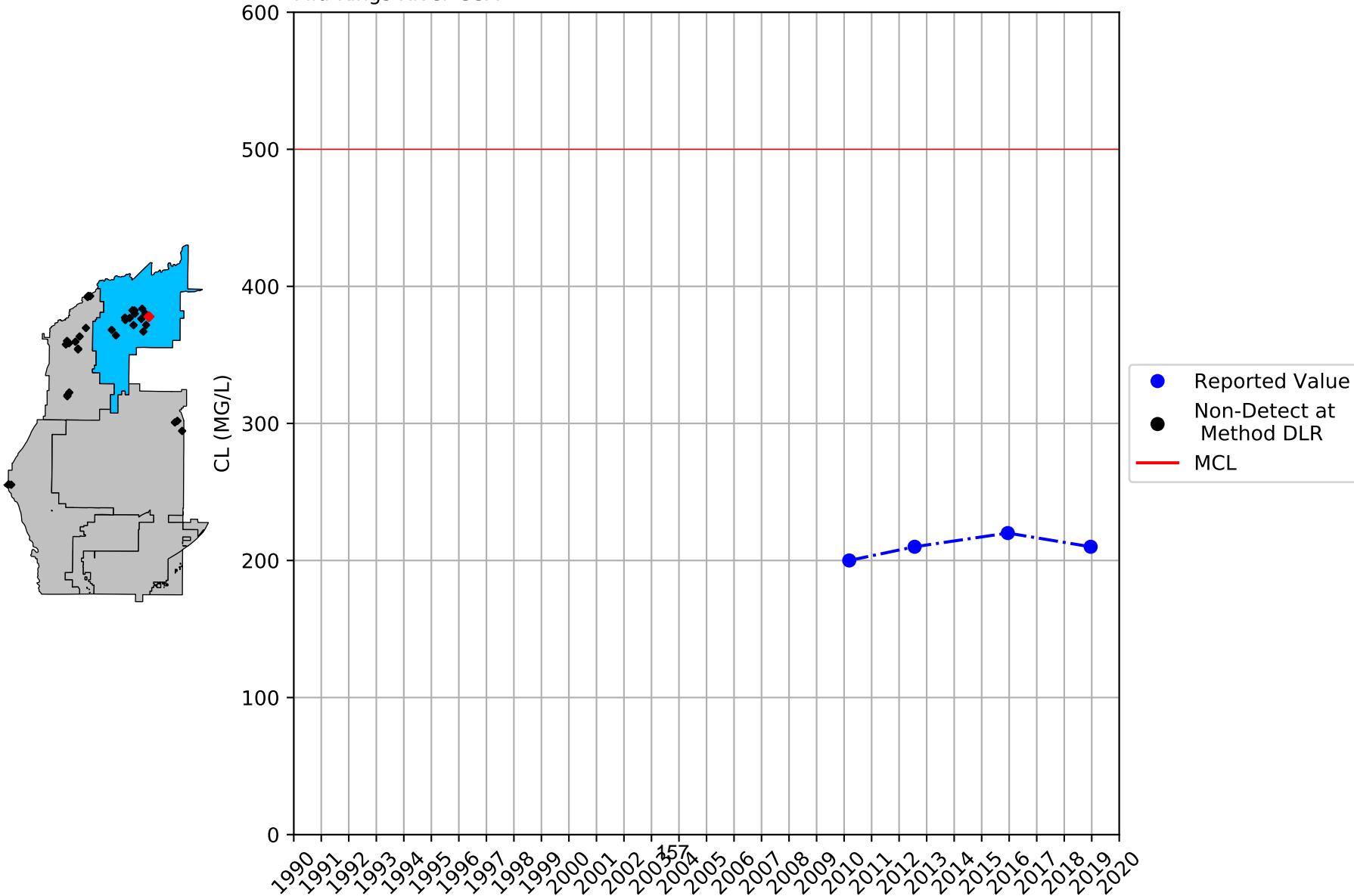
CHLORIDE
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



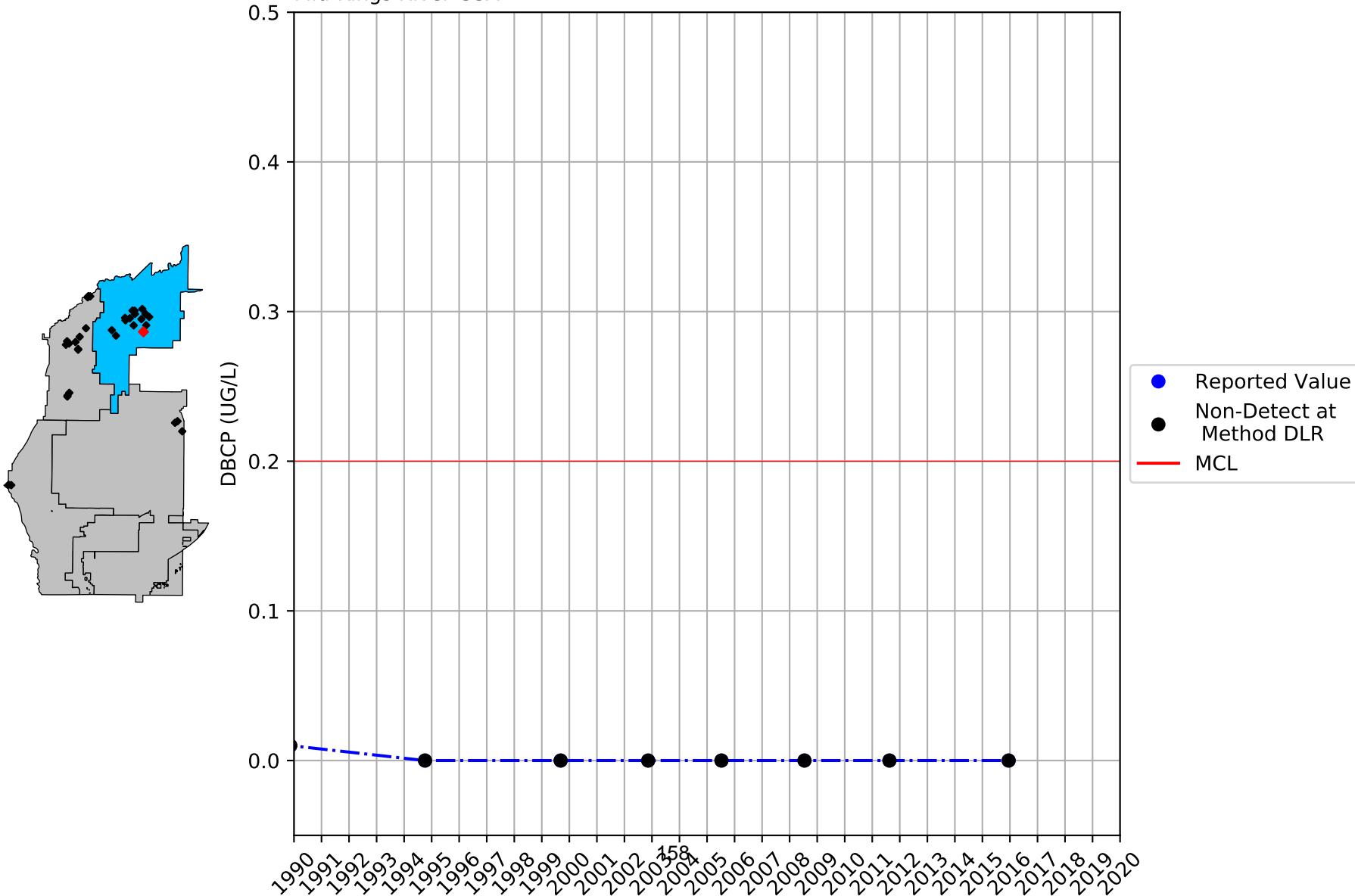
CHLORIDE
1610003-042 WELL 48 - RAW
Mid-Kings River GSA



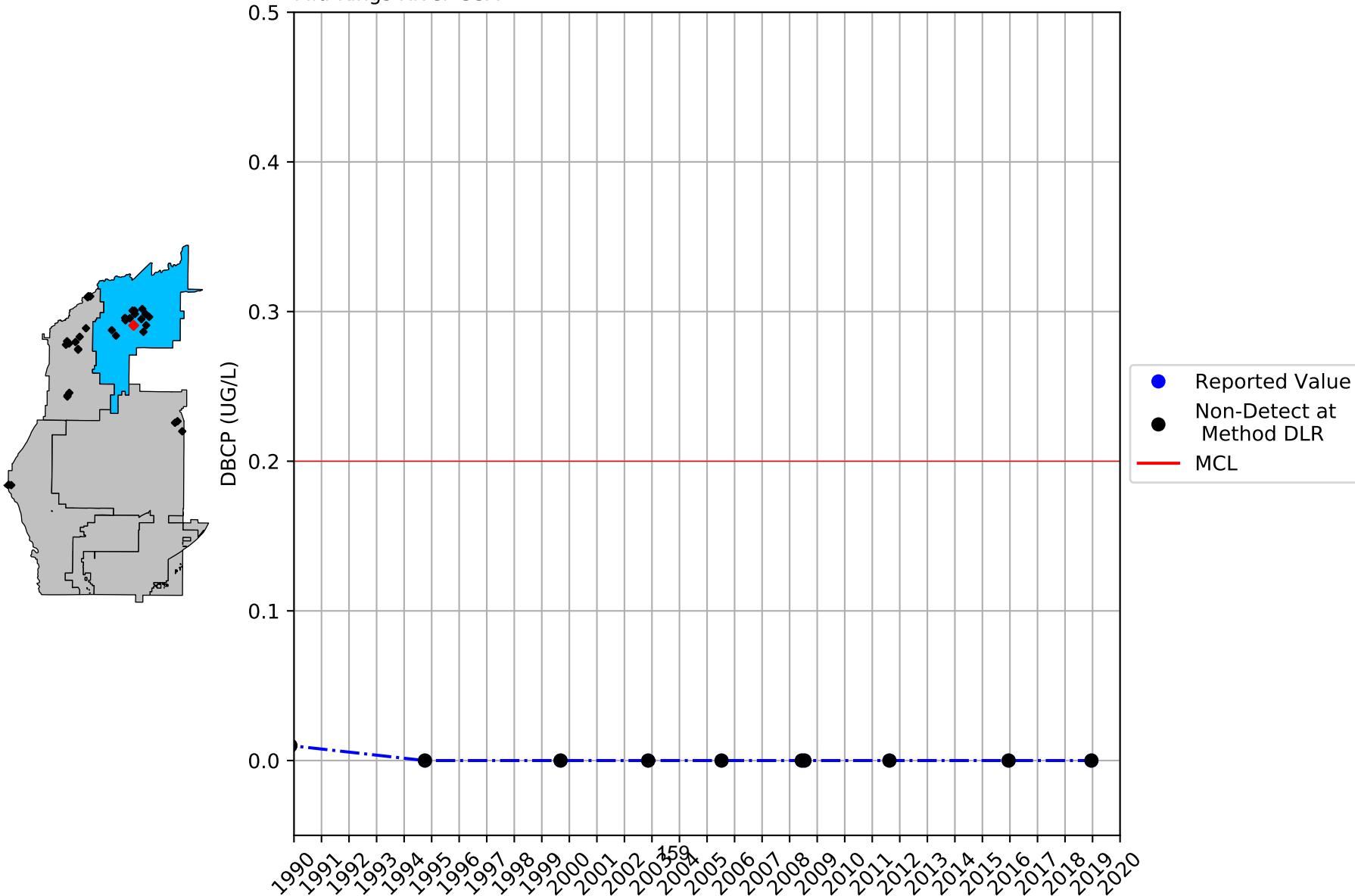
CHLORIDE
1610003-043 WELL 49 - RAW
Mid-Kings River GSA



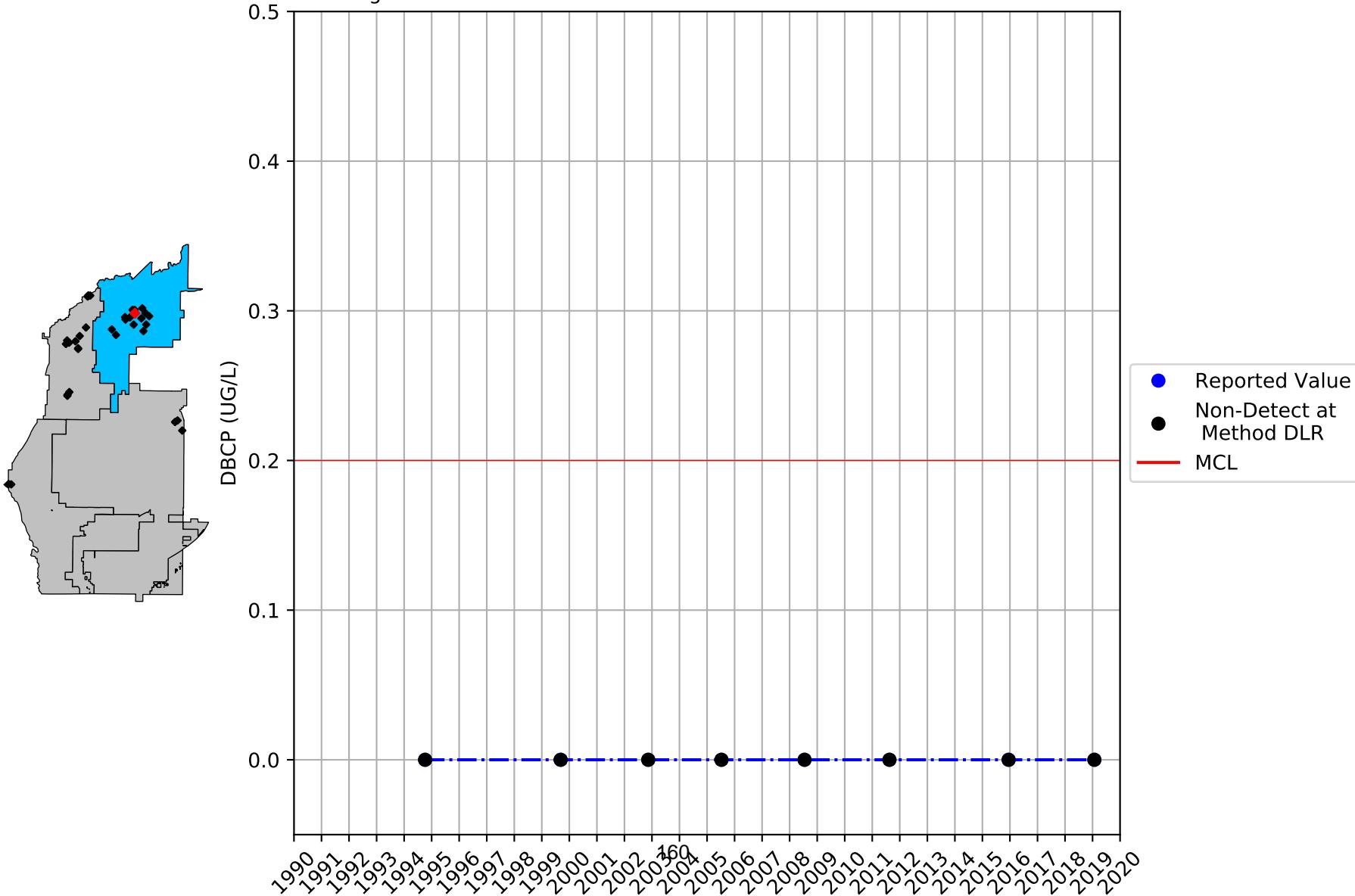
DIBROMOCHLOROPROPANE (DBCP)
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



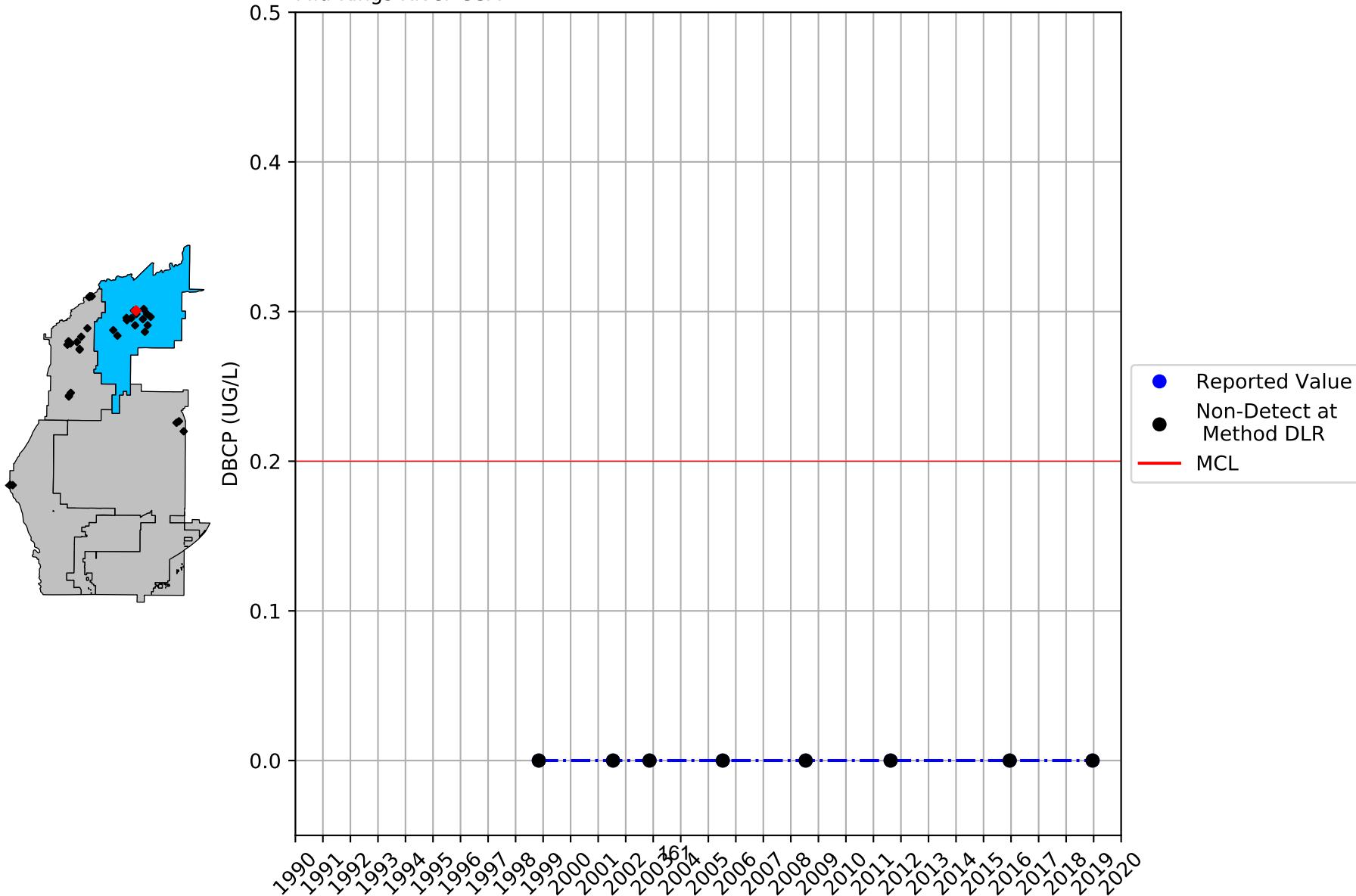
DIBROMOCHLOROPROPANE (DBCP)
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



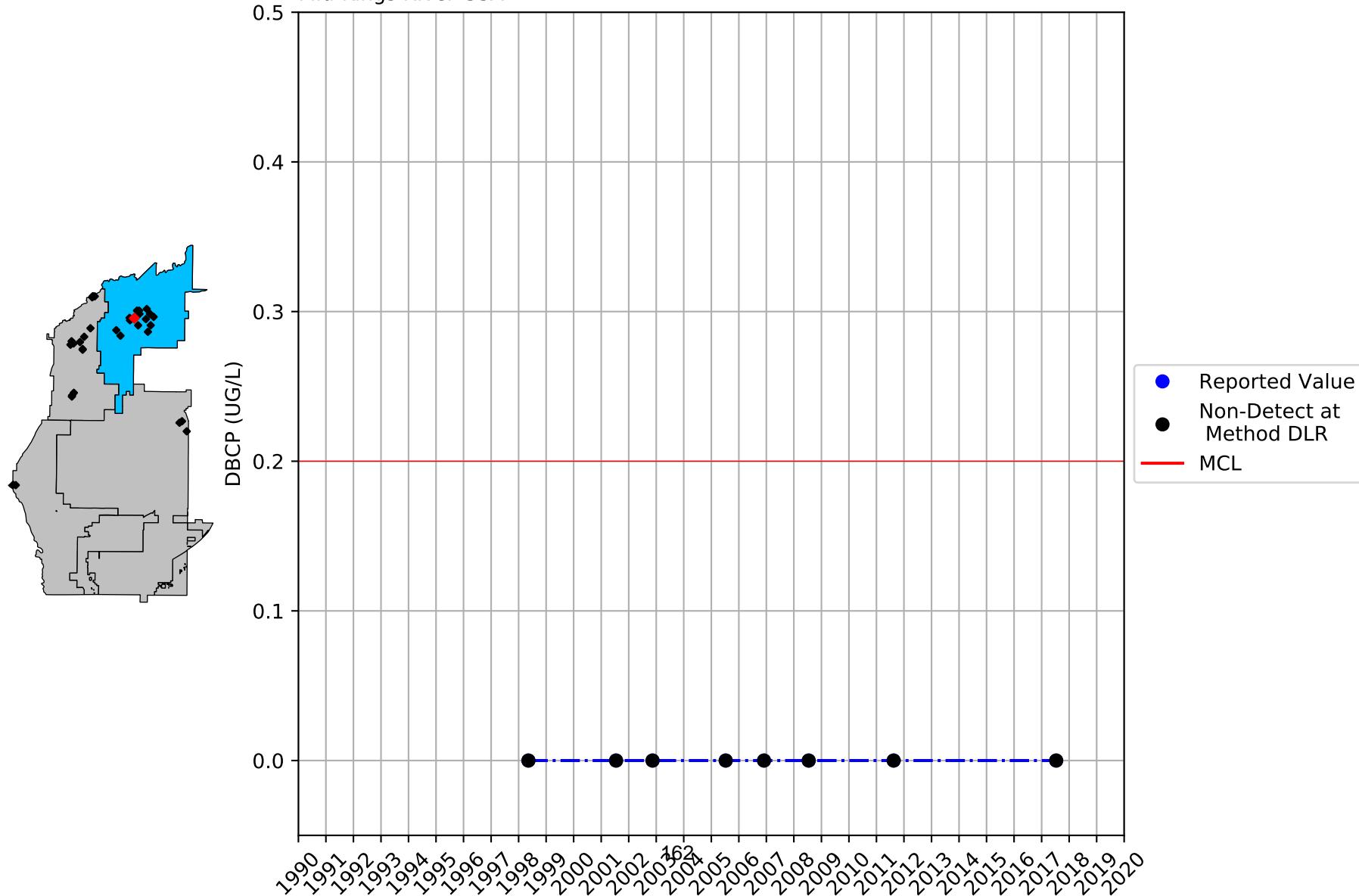
DIBROMOCHLOROPROPANE (DBCP)
1610003-031 WELL 38
Mid-Kings River GSA



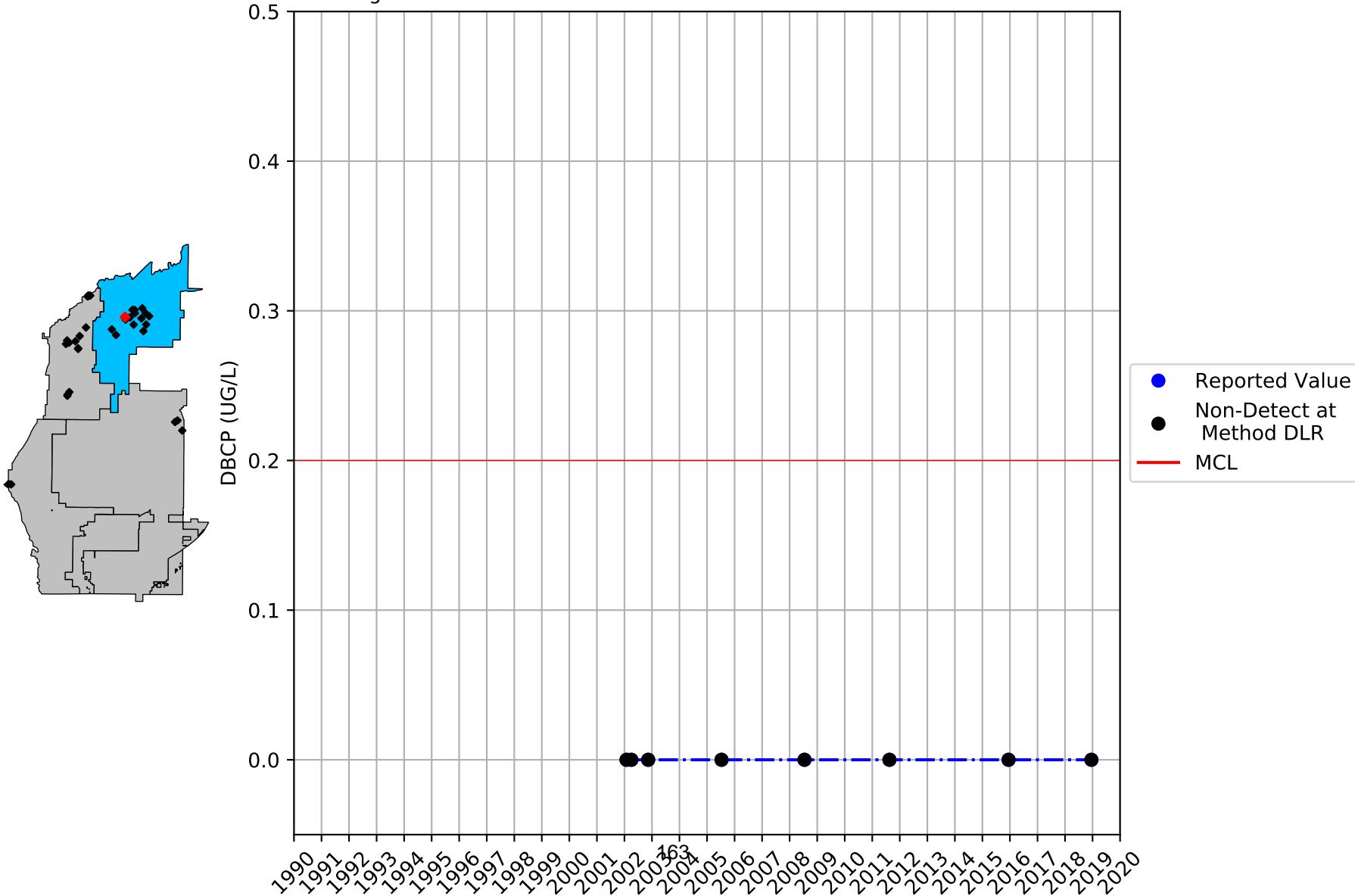
DIBROMOCHLOROPROPANE (DBCP)
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



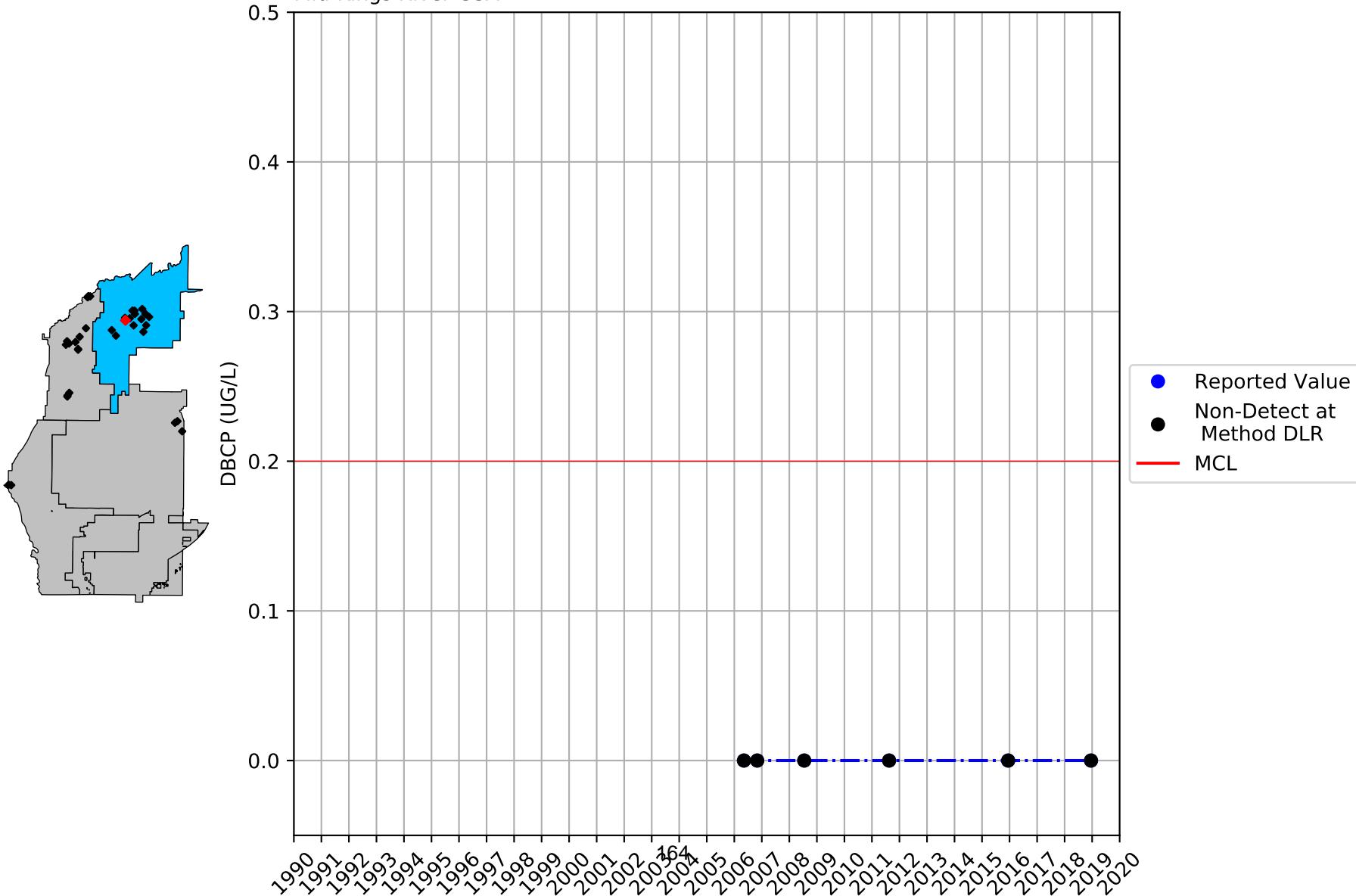
DIBROMOCHLOROPROPANE (DBCP)
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



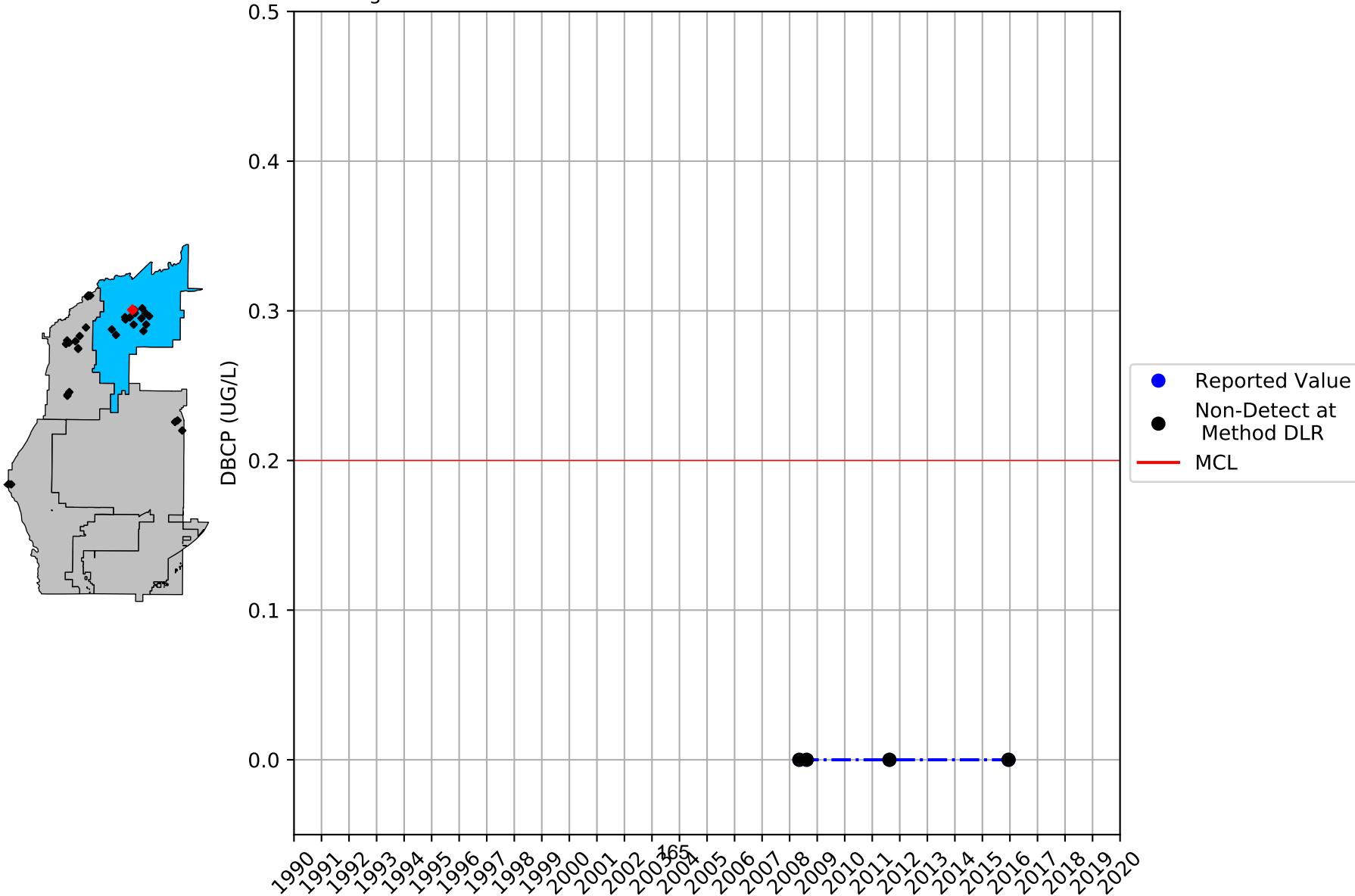
DIBROMOCHLOROPROPANE (DBCP)
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



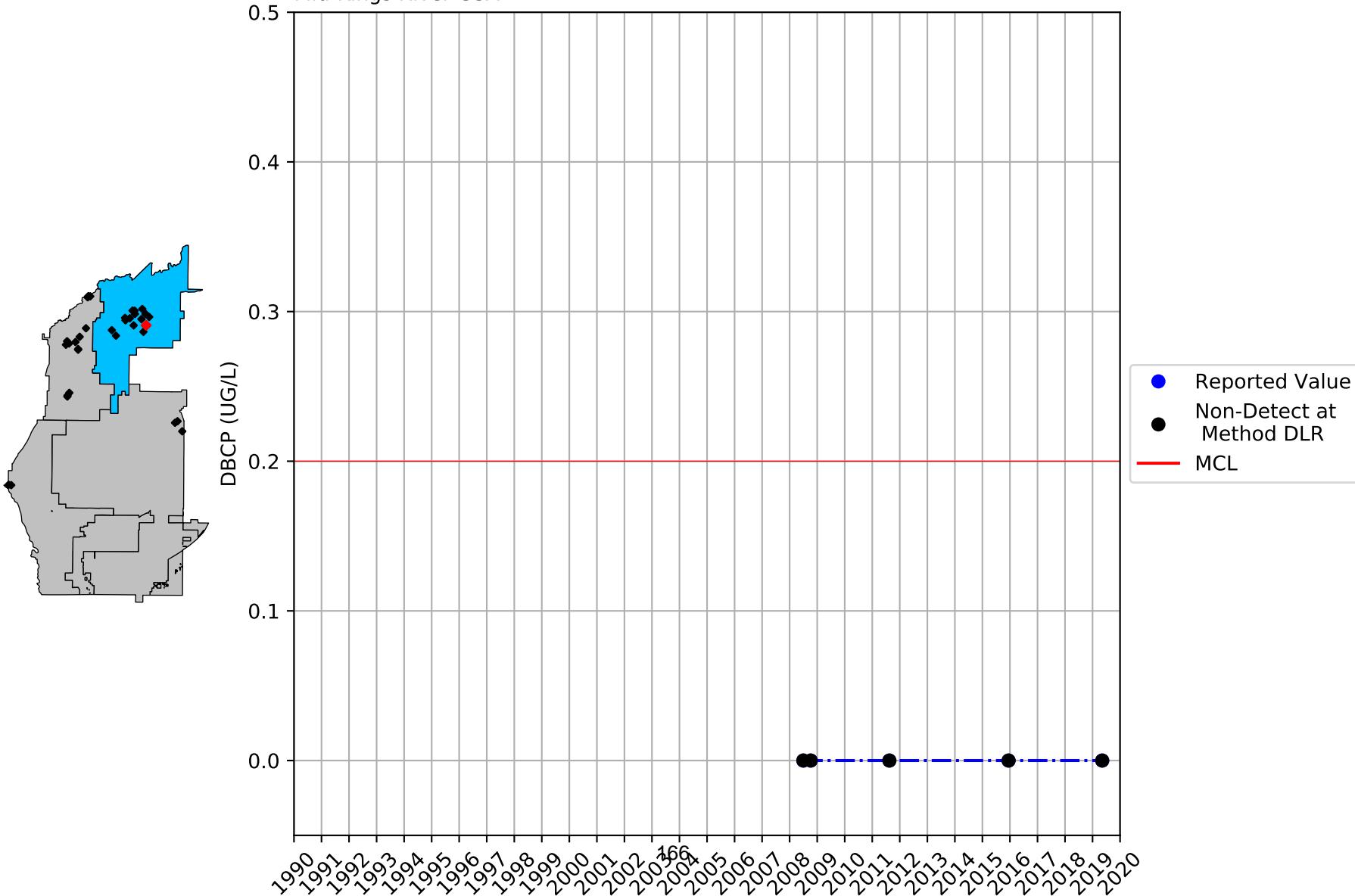
DIBROMOCHLOROPROPANE (DBCP)
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



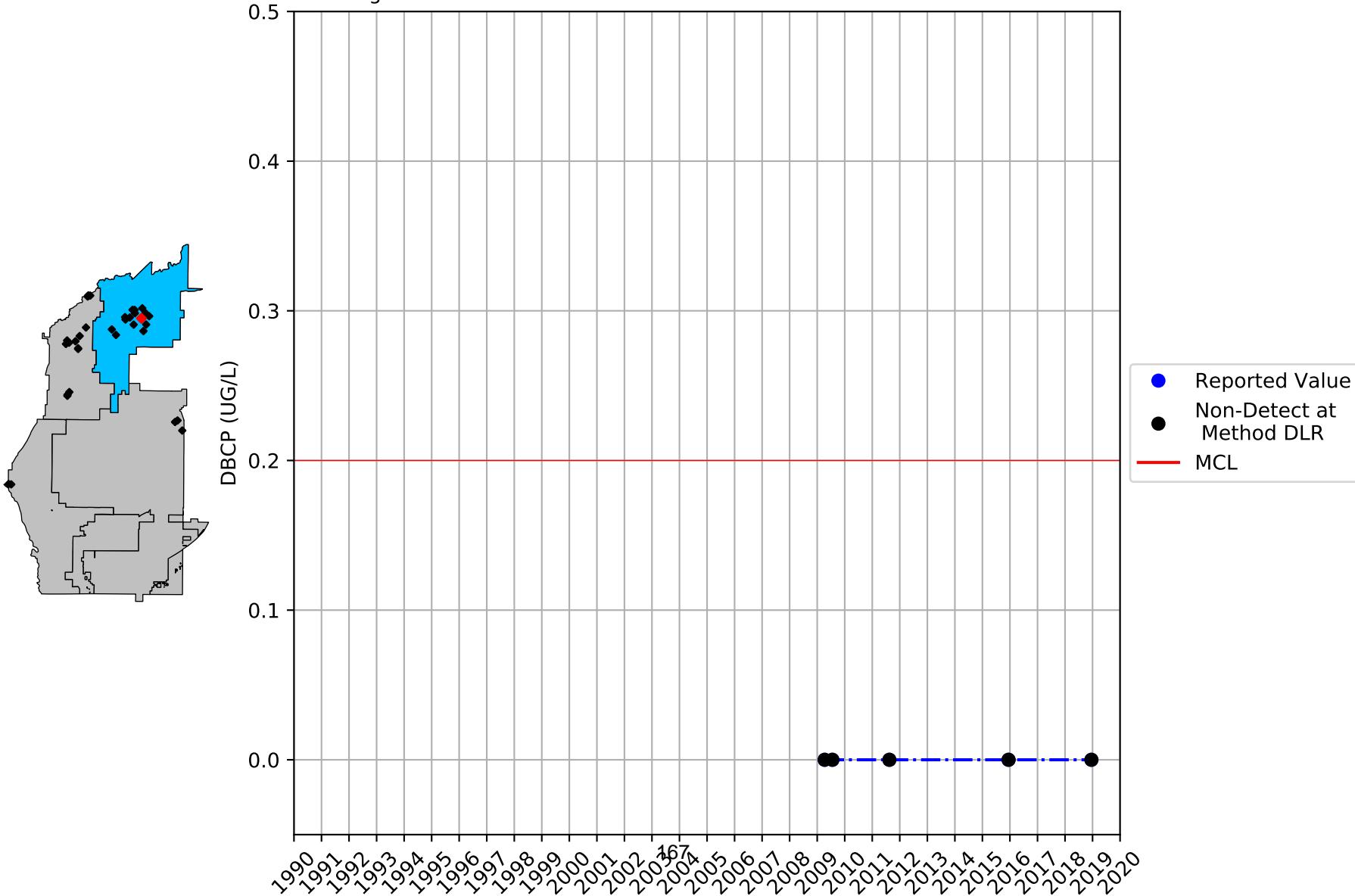
DIBROMOCHLOROPROPANE (DBCP)
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



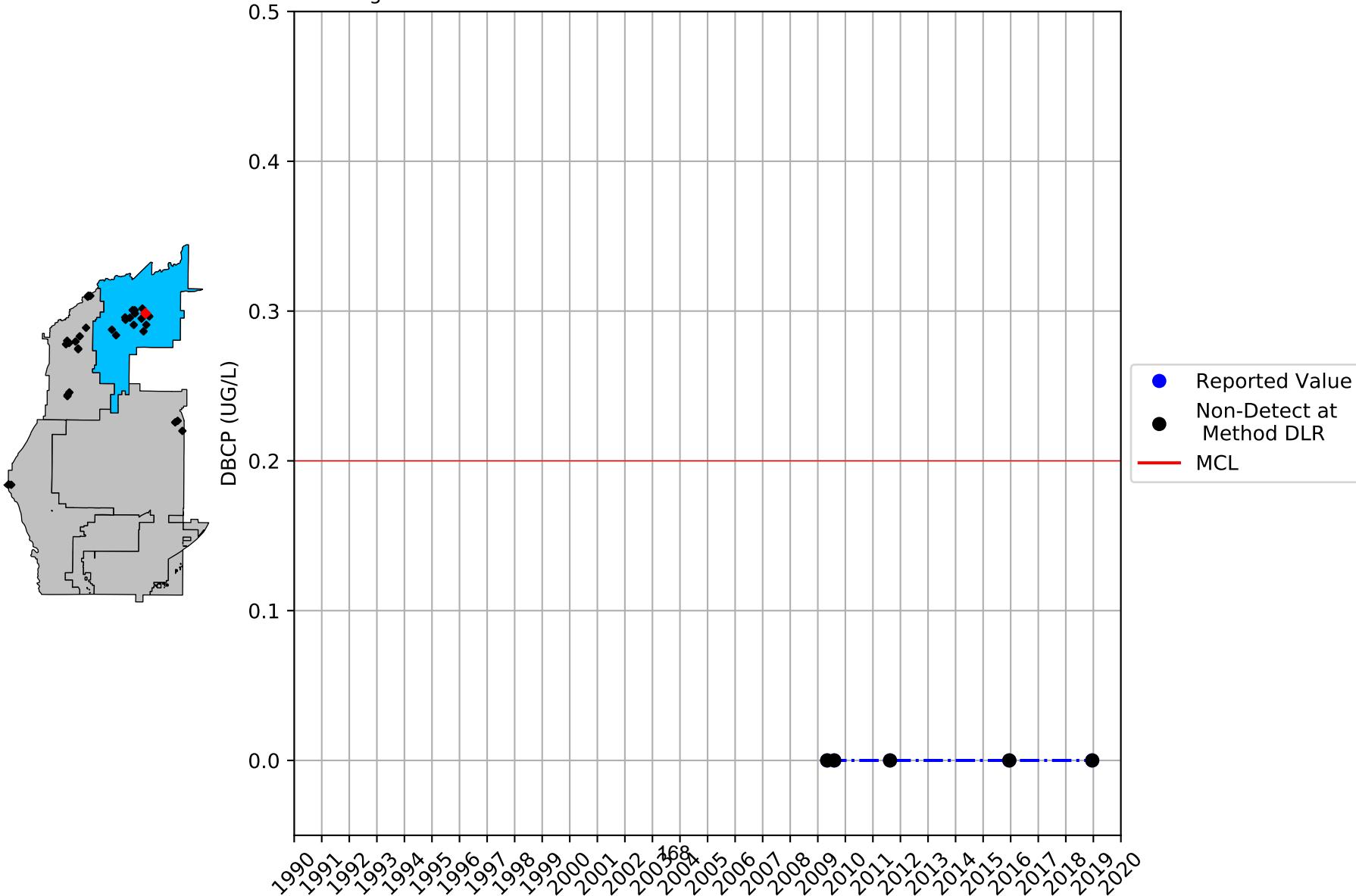
DIBROMOCHLOROPROPANE (DBCP)
1610003-039 WELL 45 - RAW
Mid-Kings River GSA



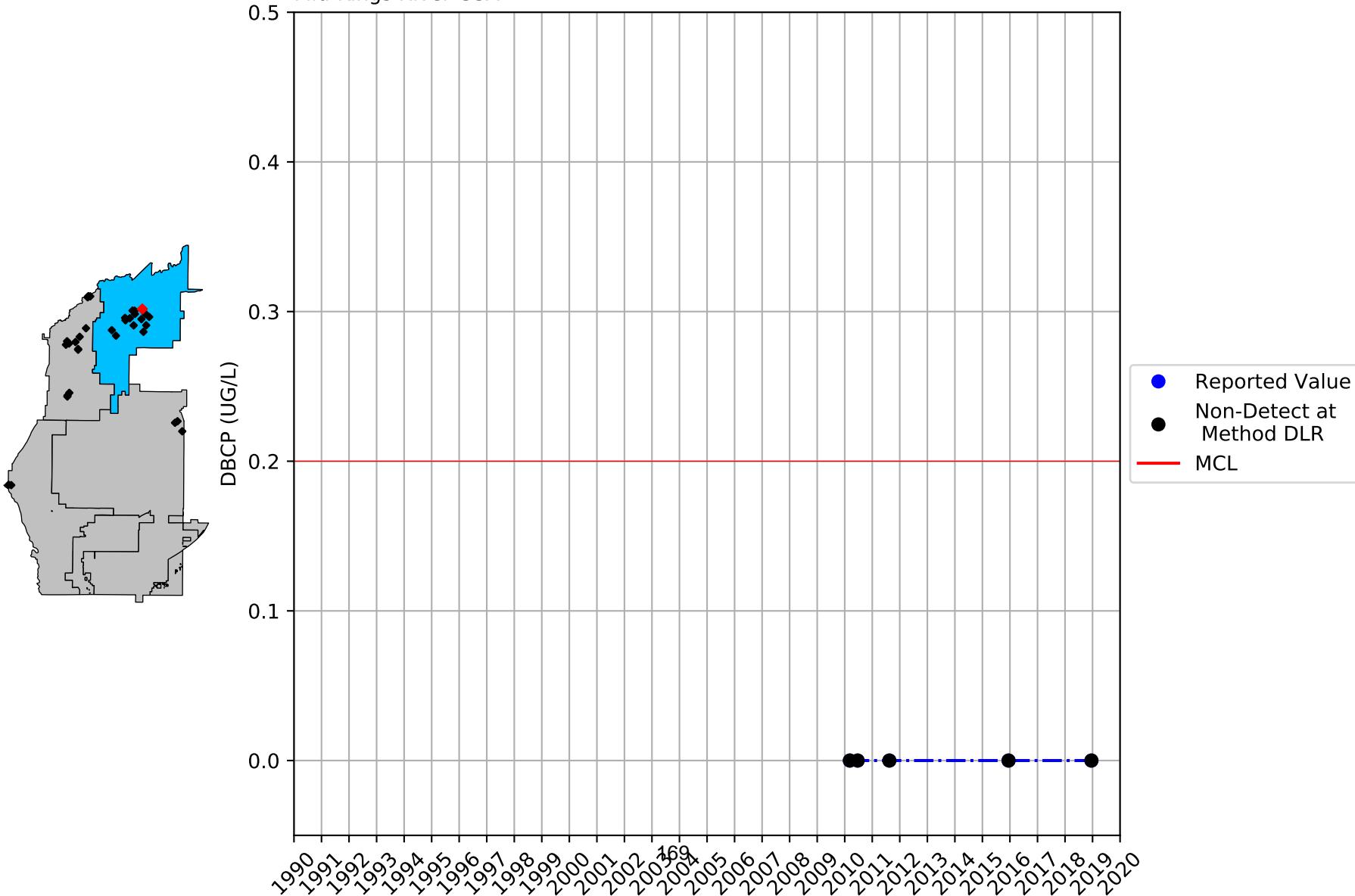
DIBROMOCHLOROPROPANE (DBCP)
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



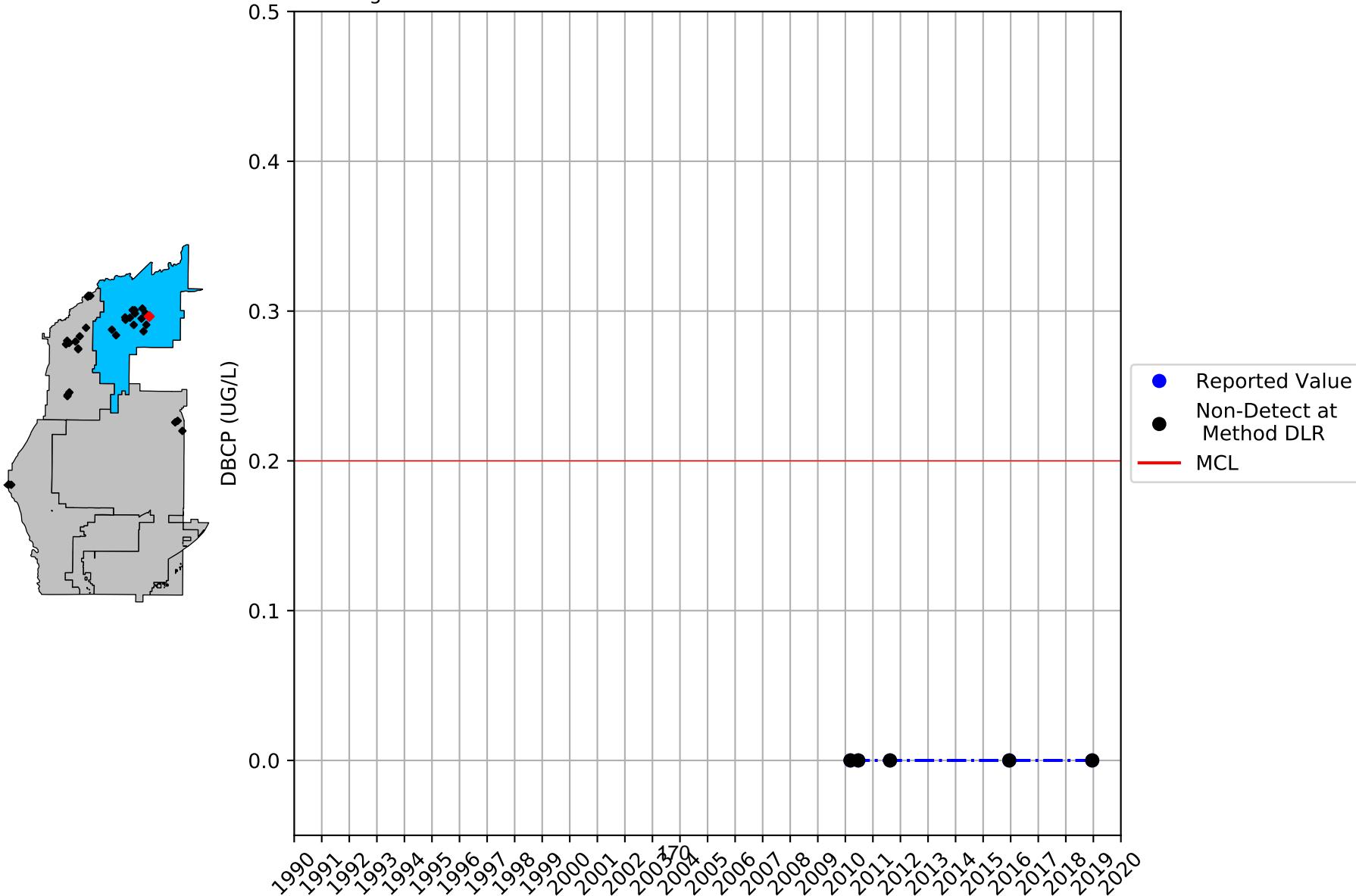
DIBROMOCHLOROPROPANE (DBCP)
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



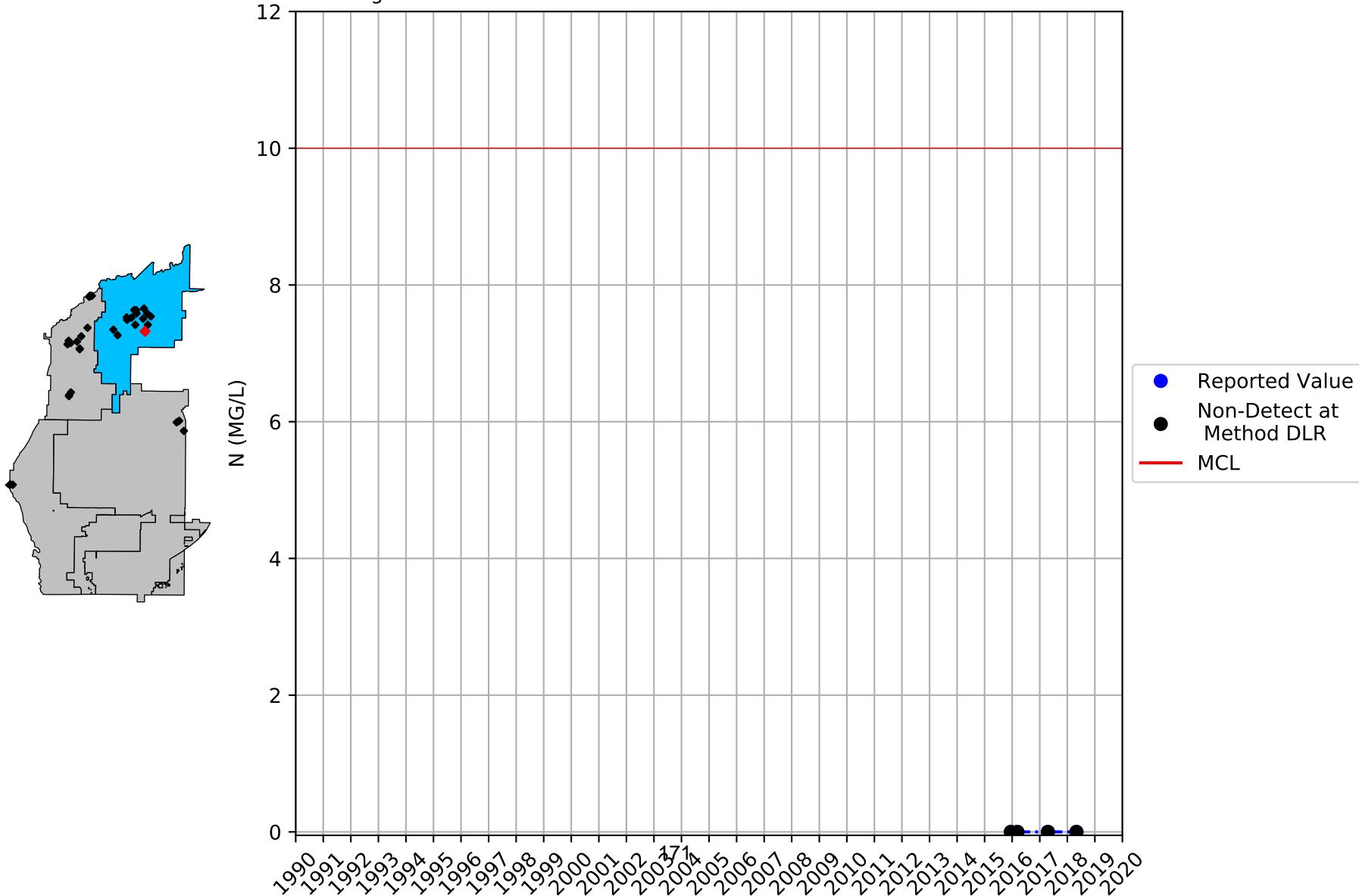
DIBROMOCHLOROPROPANE (DBCP)
1610003-042 WELL 48 - RAW
Mid-Kings River GSA



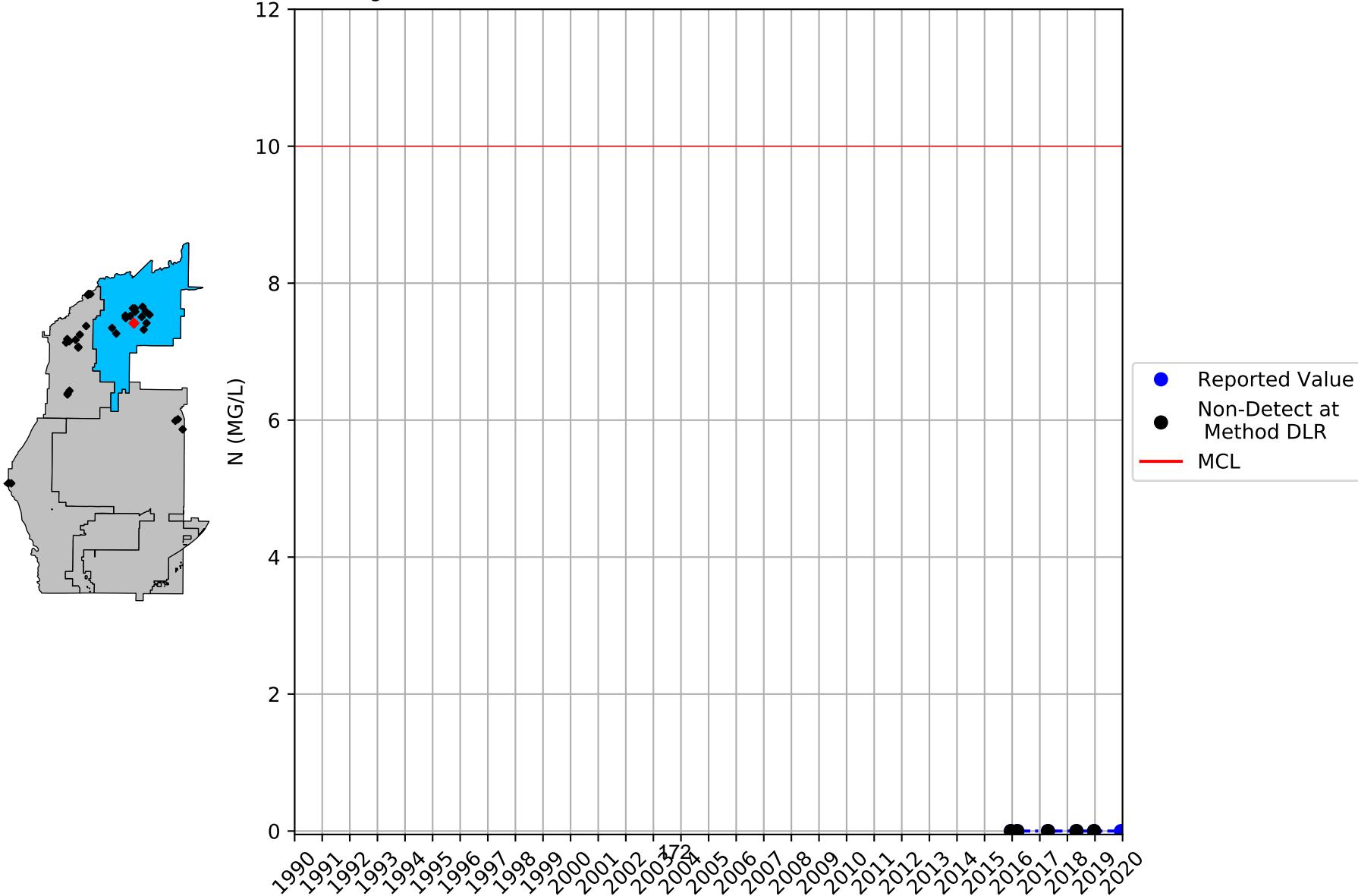
DIBROMOCHLOROPROPANE (DBCP)
1610003-043 WELL 49 - RAW
Mid-Kings River GSA



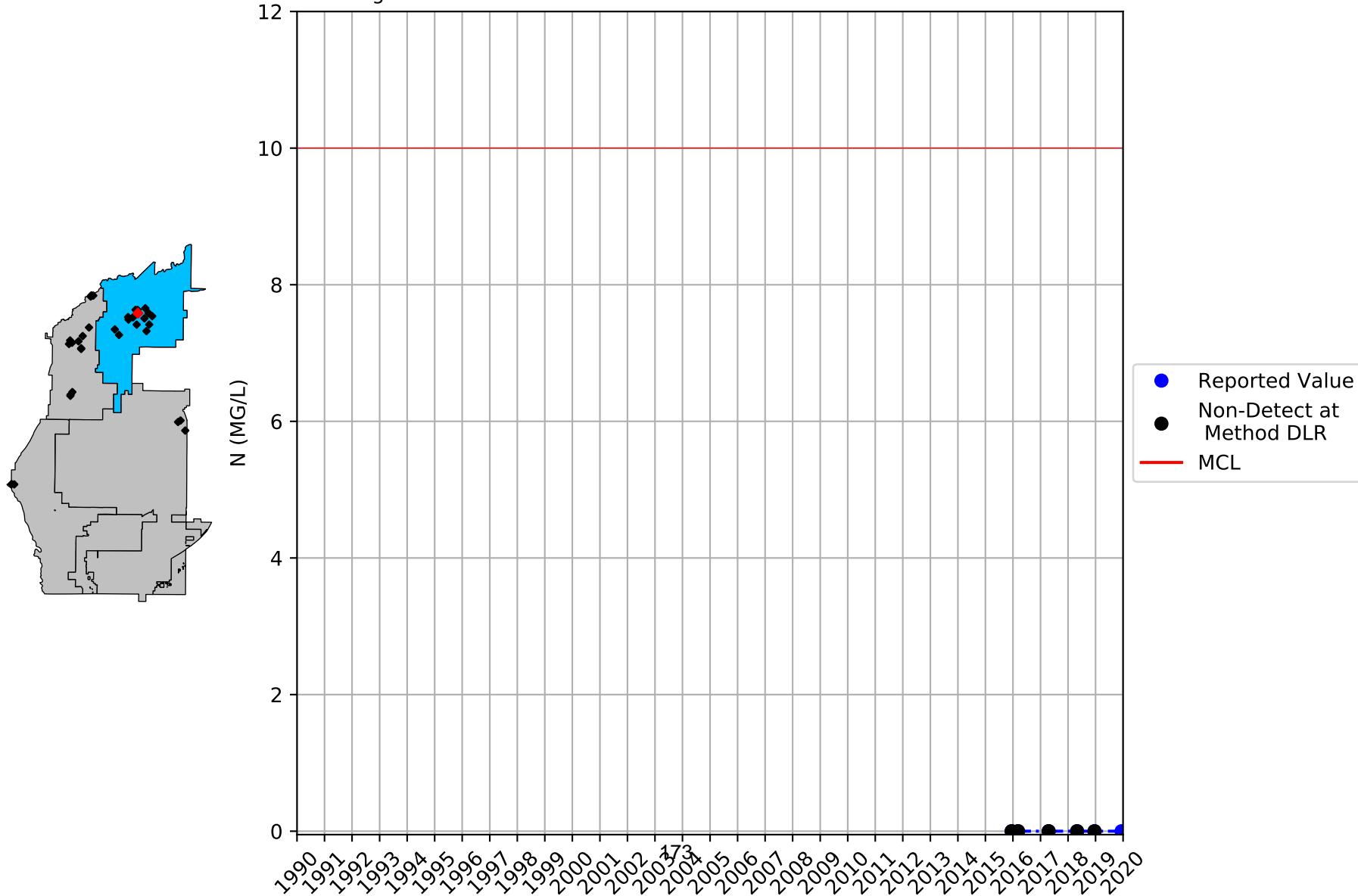
NITRATE (AS N)
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



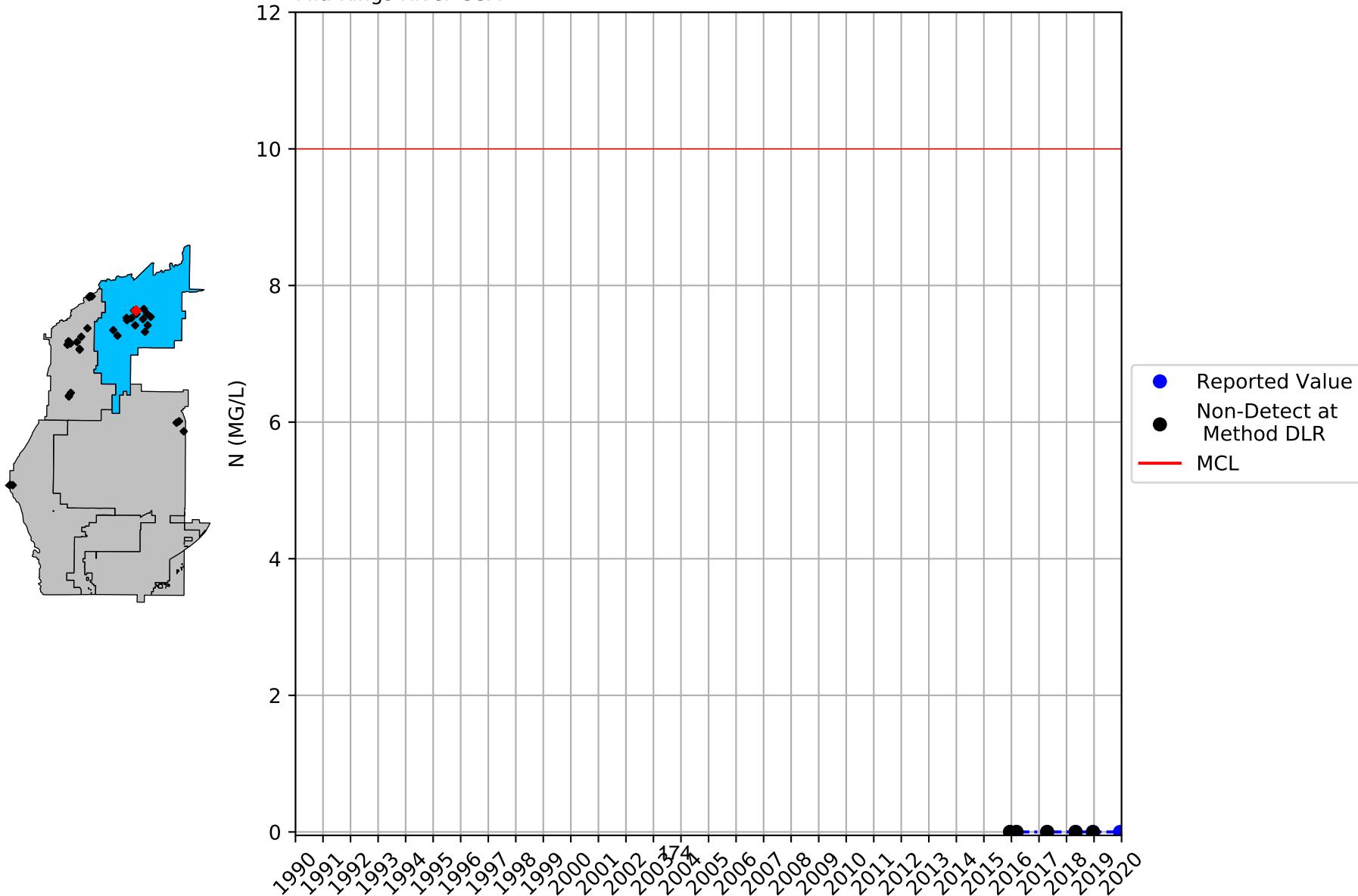
NITRATE (AS N)
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



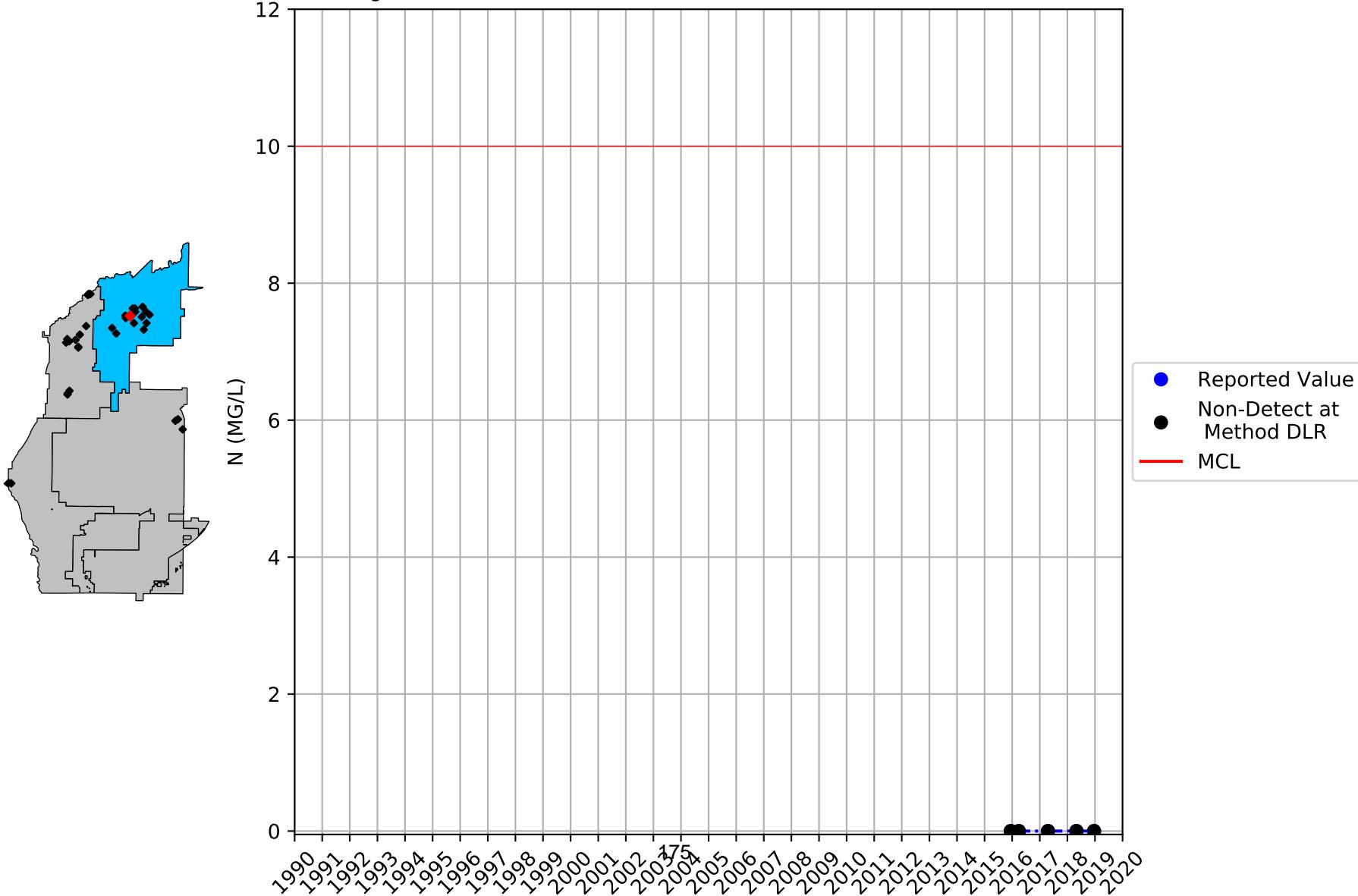
NITRATE (AS N)
1610003-031 WELL 38
Mid-Kings River GSA



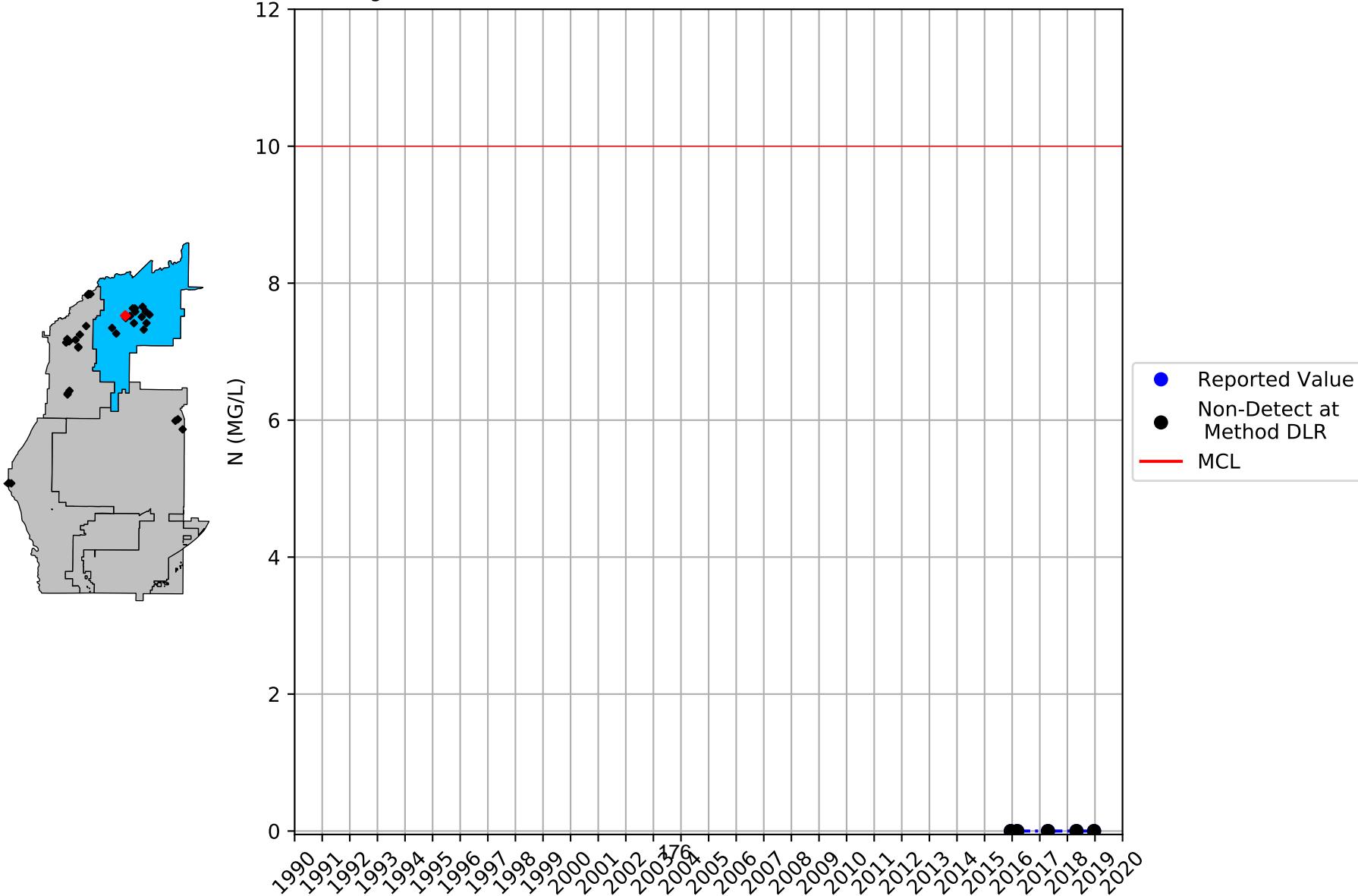
NITRATE (AS N)
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



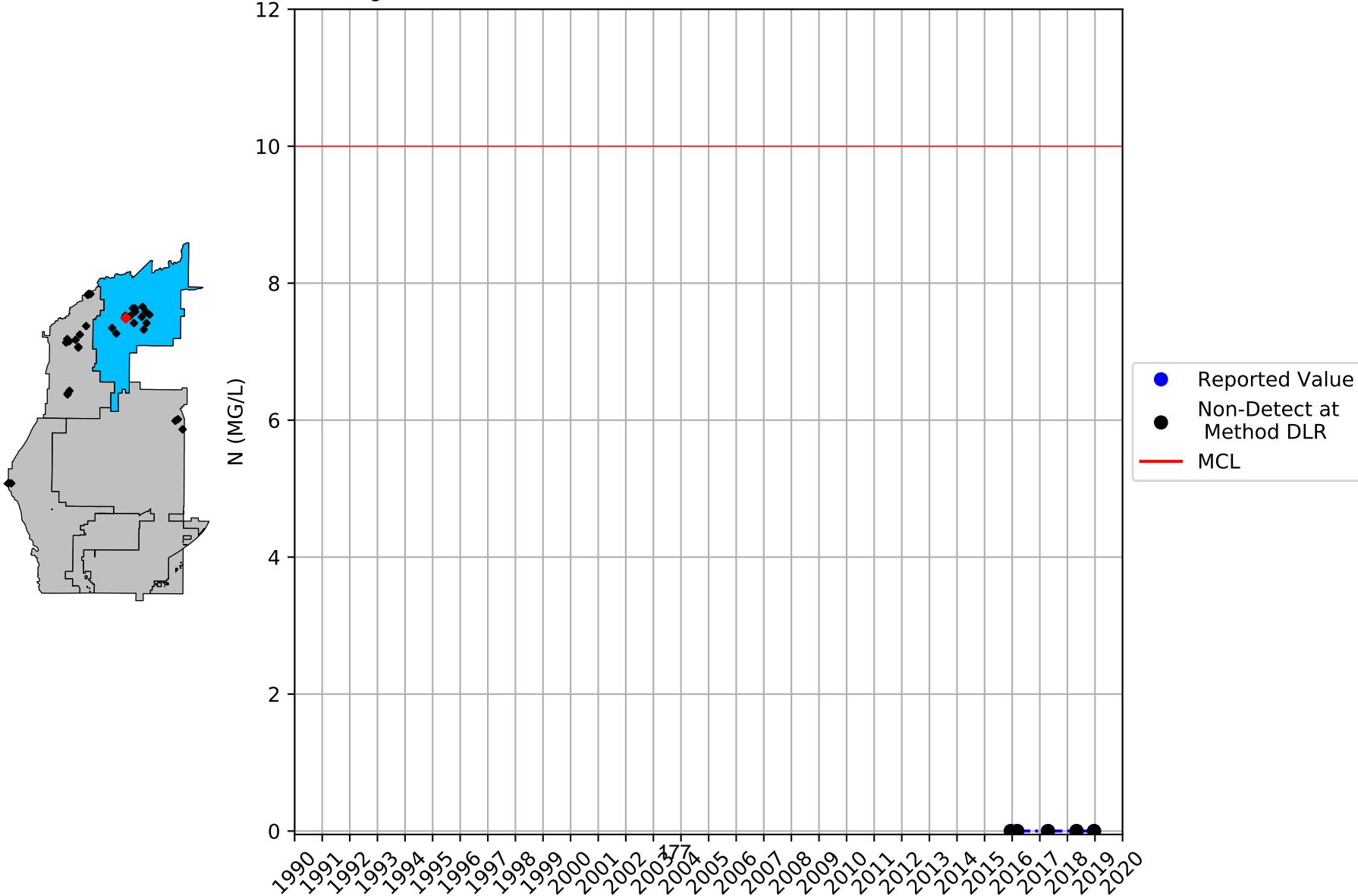
NITRATE (AS N)
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



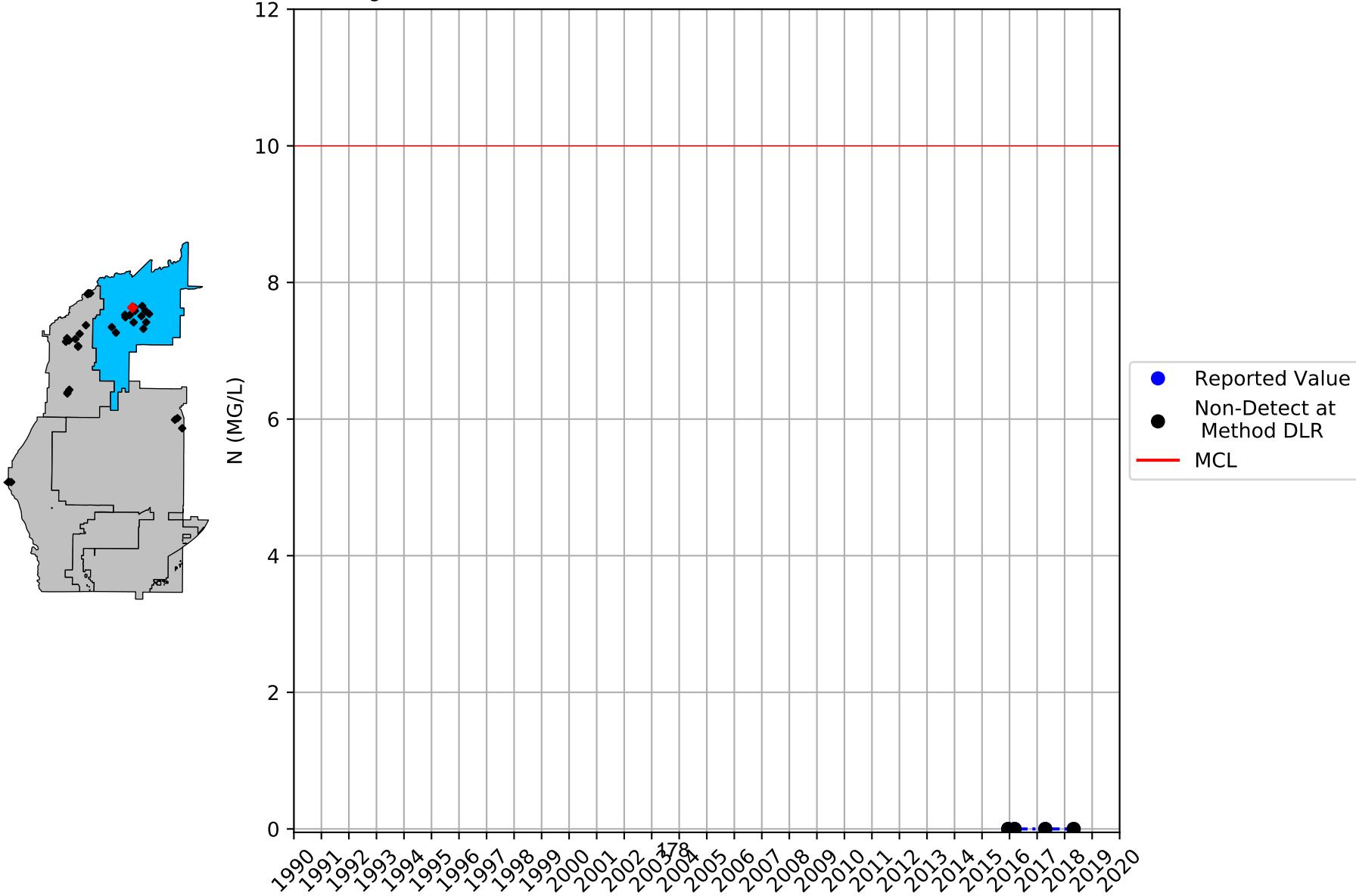
NITRATE (AS N)
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



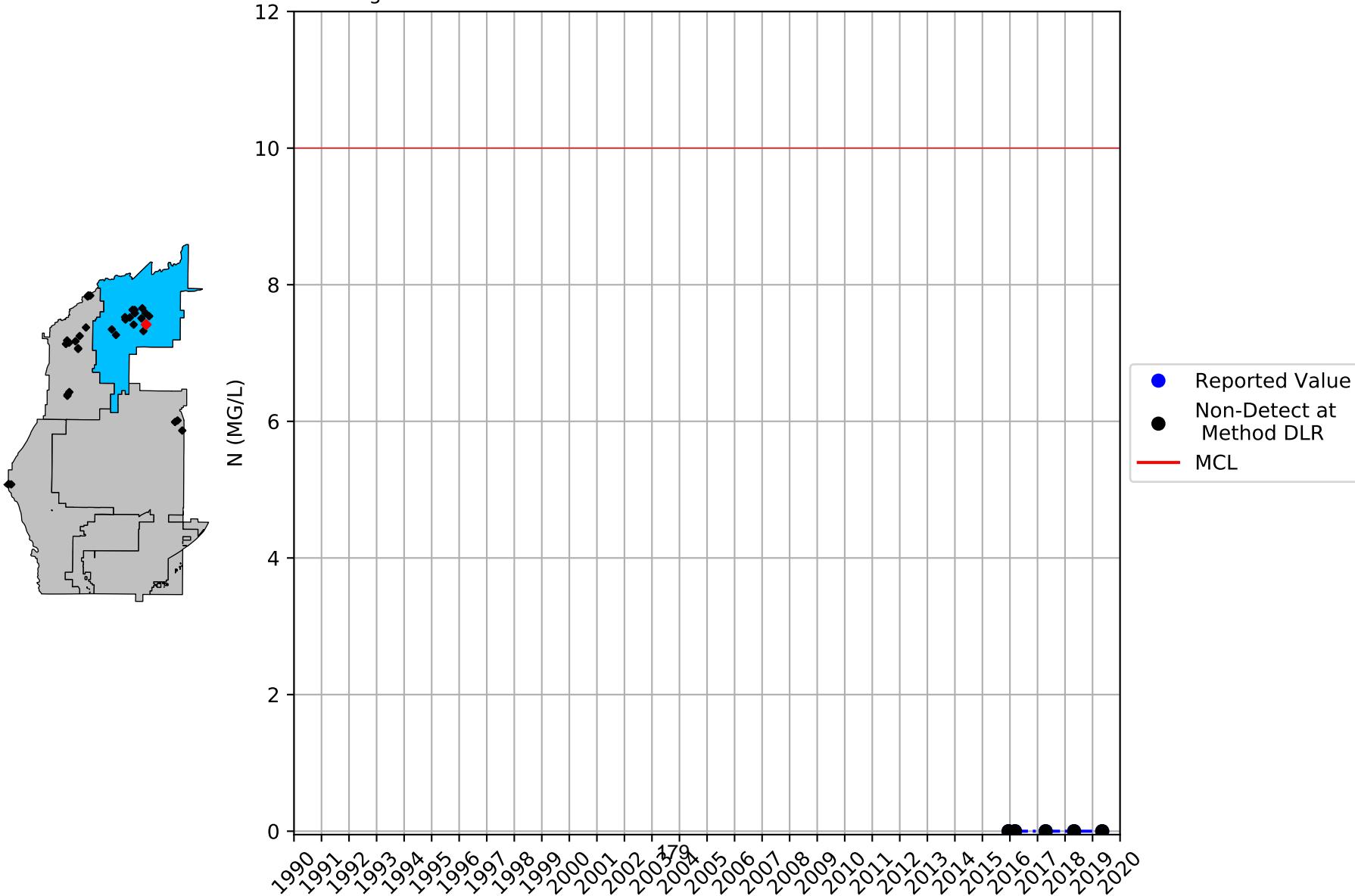
NITRATE (AS N)
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



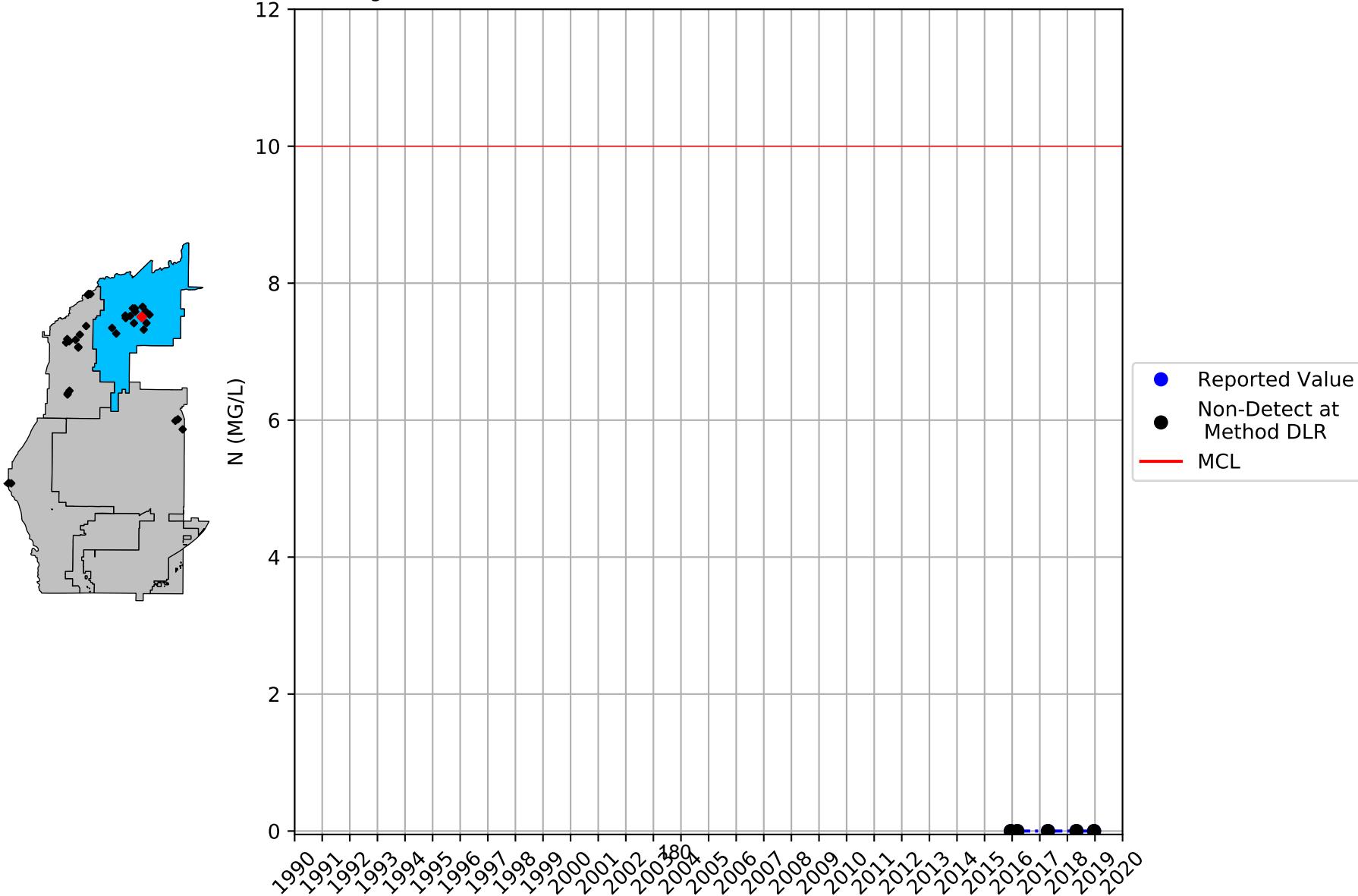
NITRATE (AS N)
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



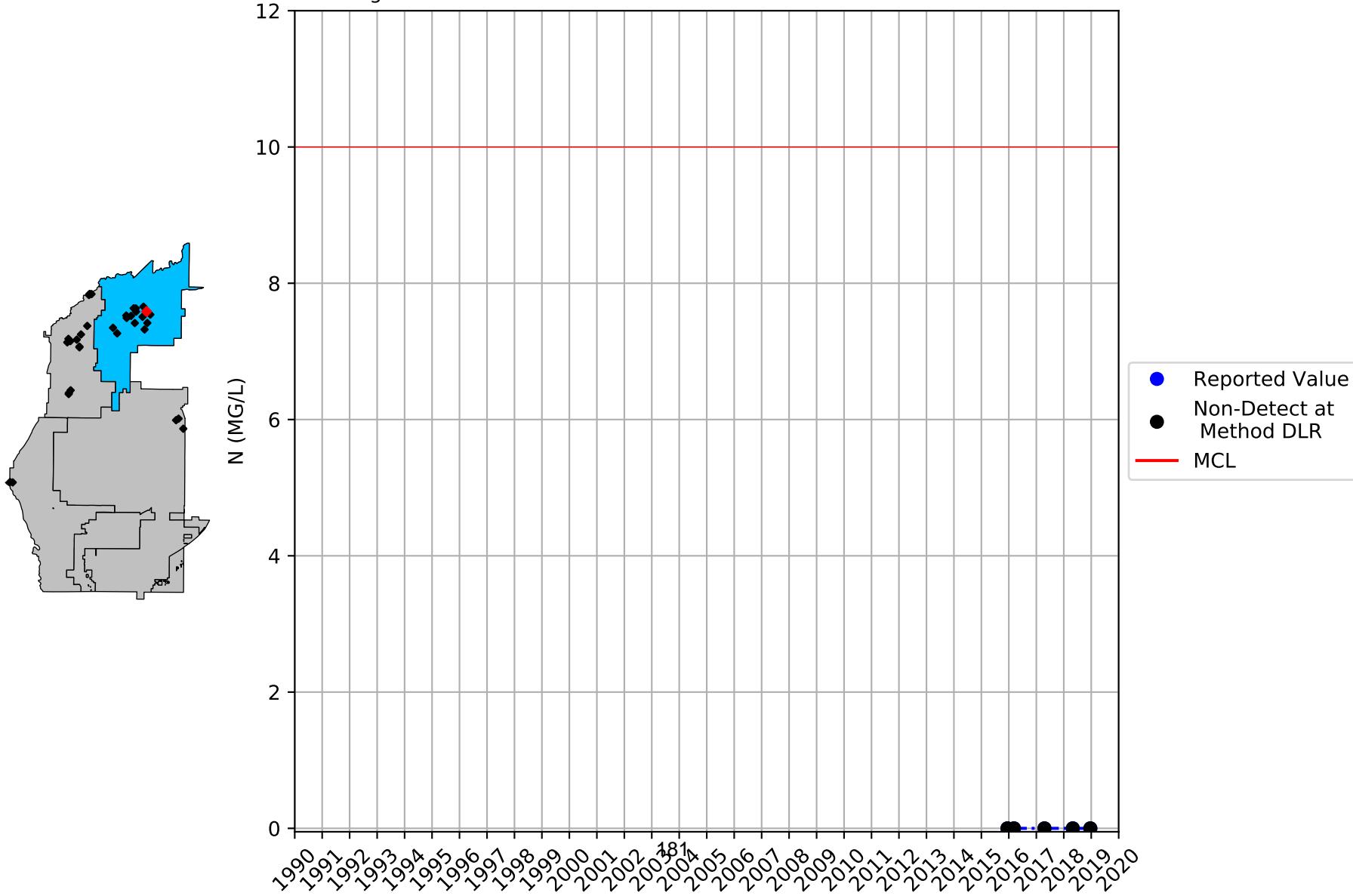
NITRATE (AS N)
1610003-039 WELL 45 - RAW
Mid-Kings River GSA



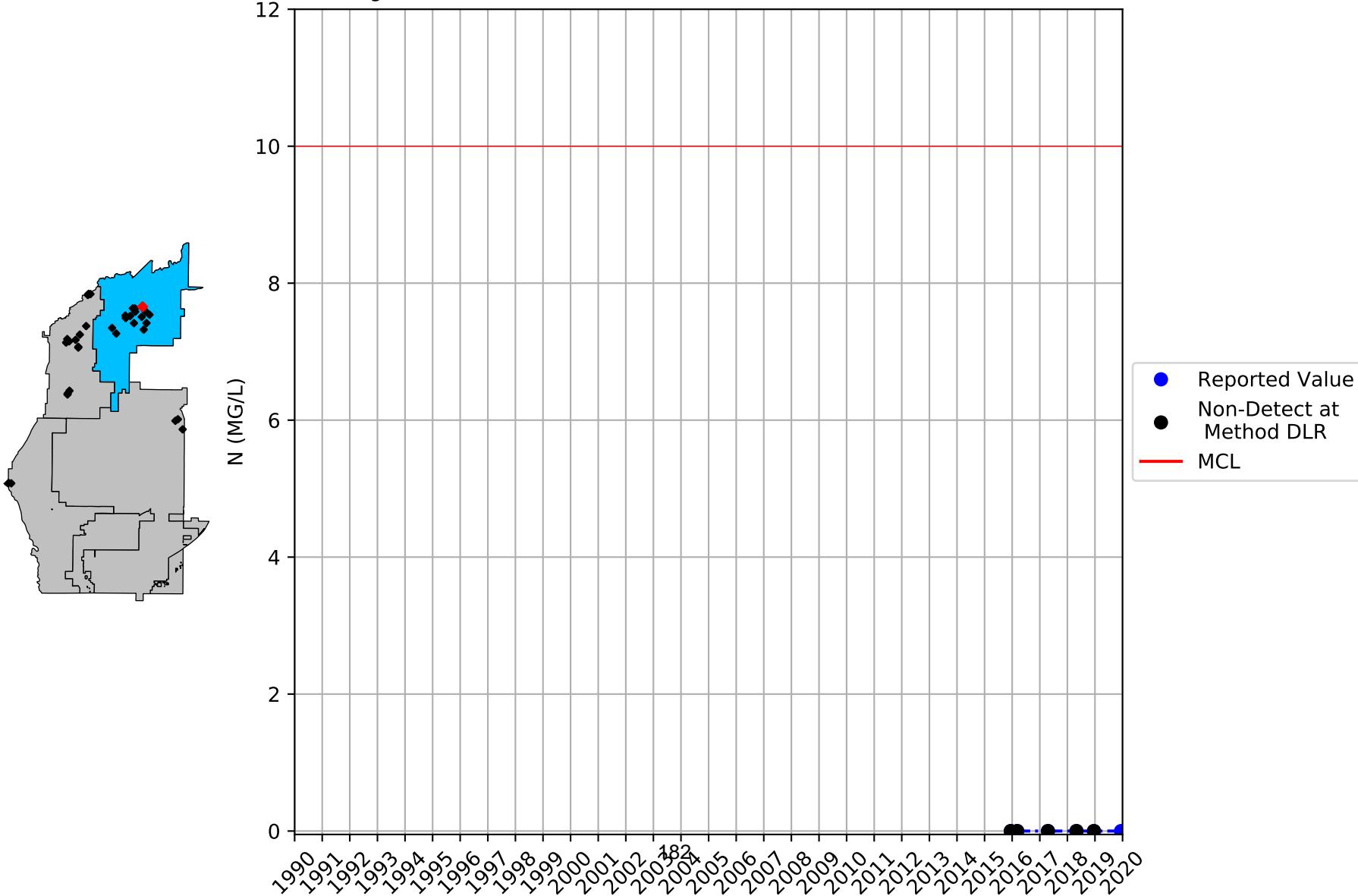
NITRATE (AS N)
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



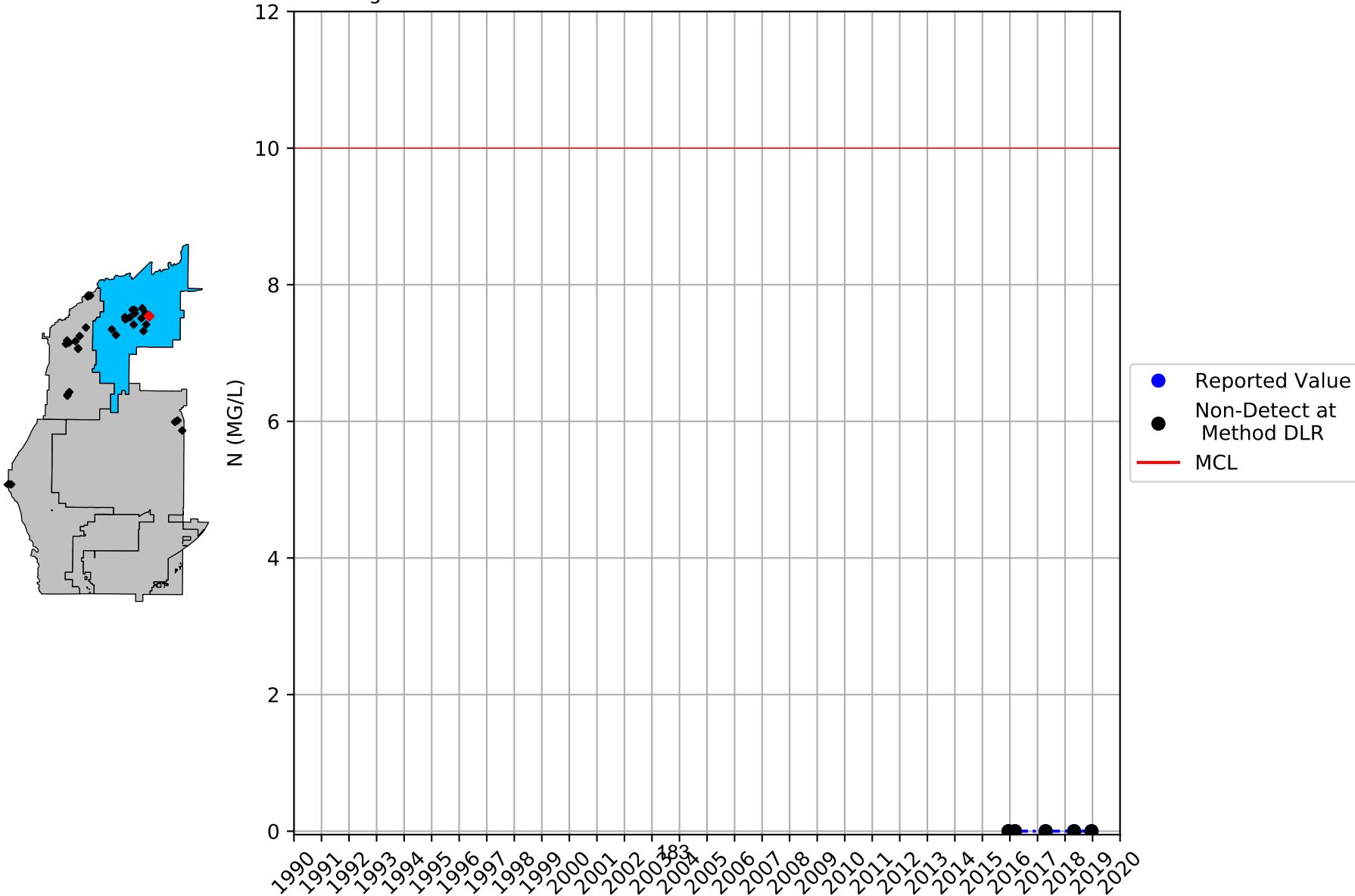
NITRATE (AS N)
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



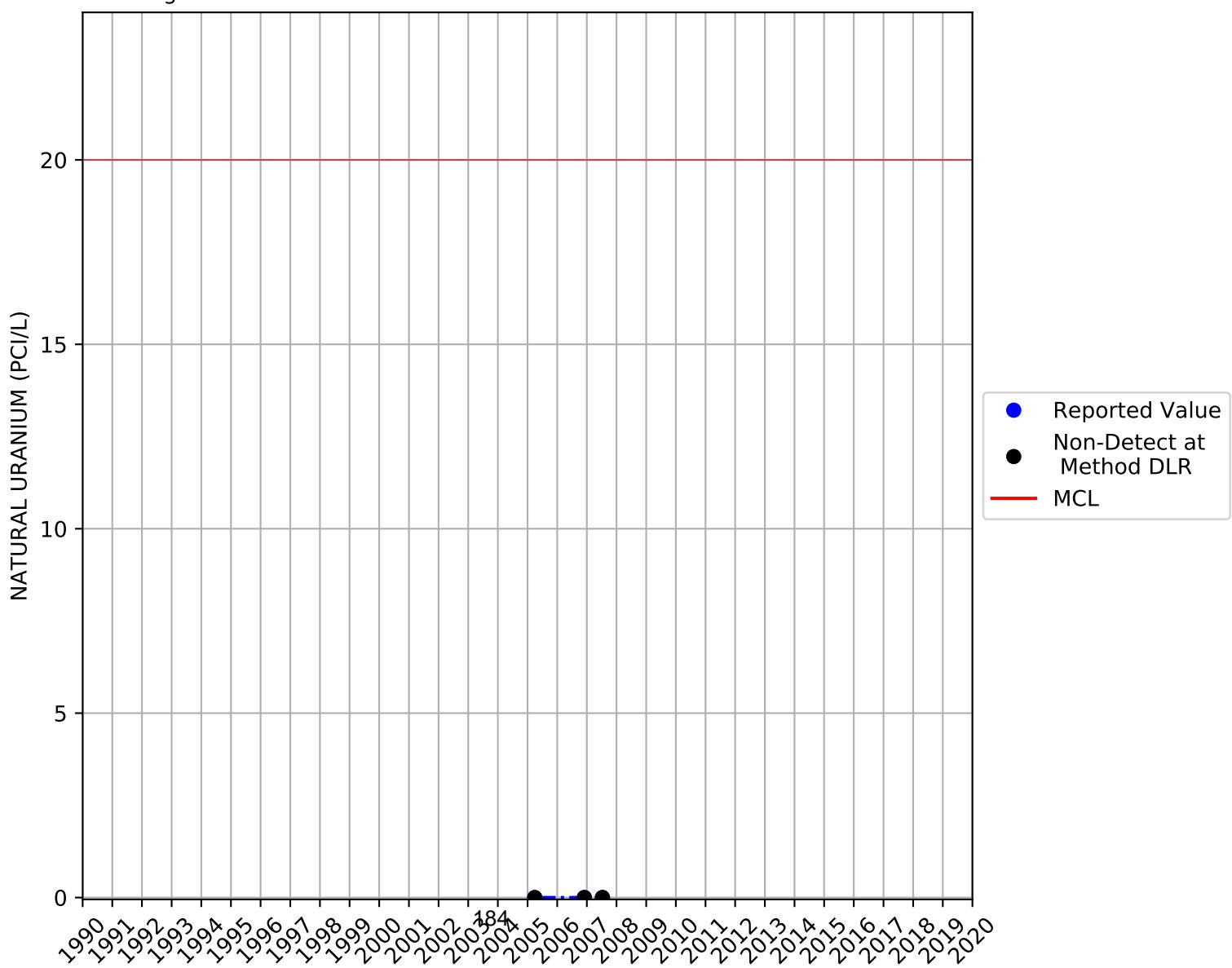
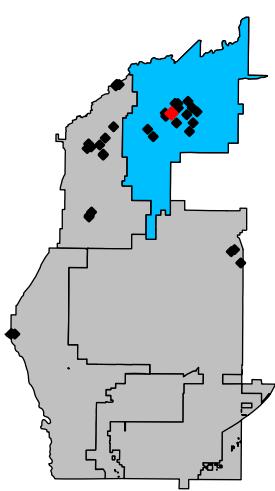
NITRATE (AS N)
1610003-042 WELL 48 - RAW
Mid-Kings River GSA



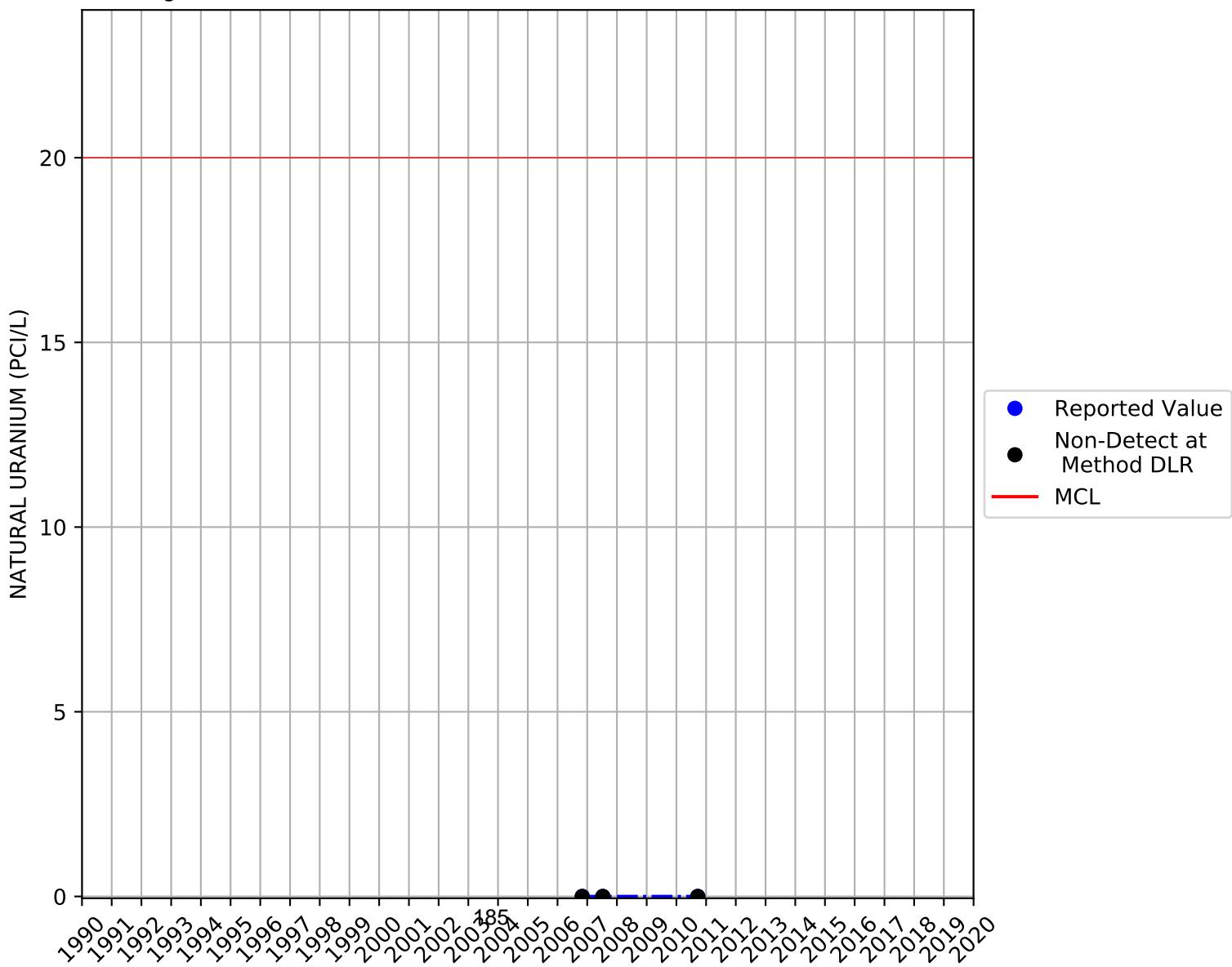
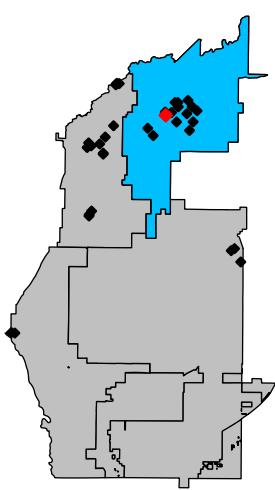
NITRATE (AS N)
1610003-043 WELL 49 - RAW
Mid-Kings River GSA



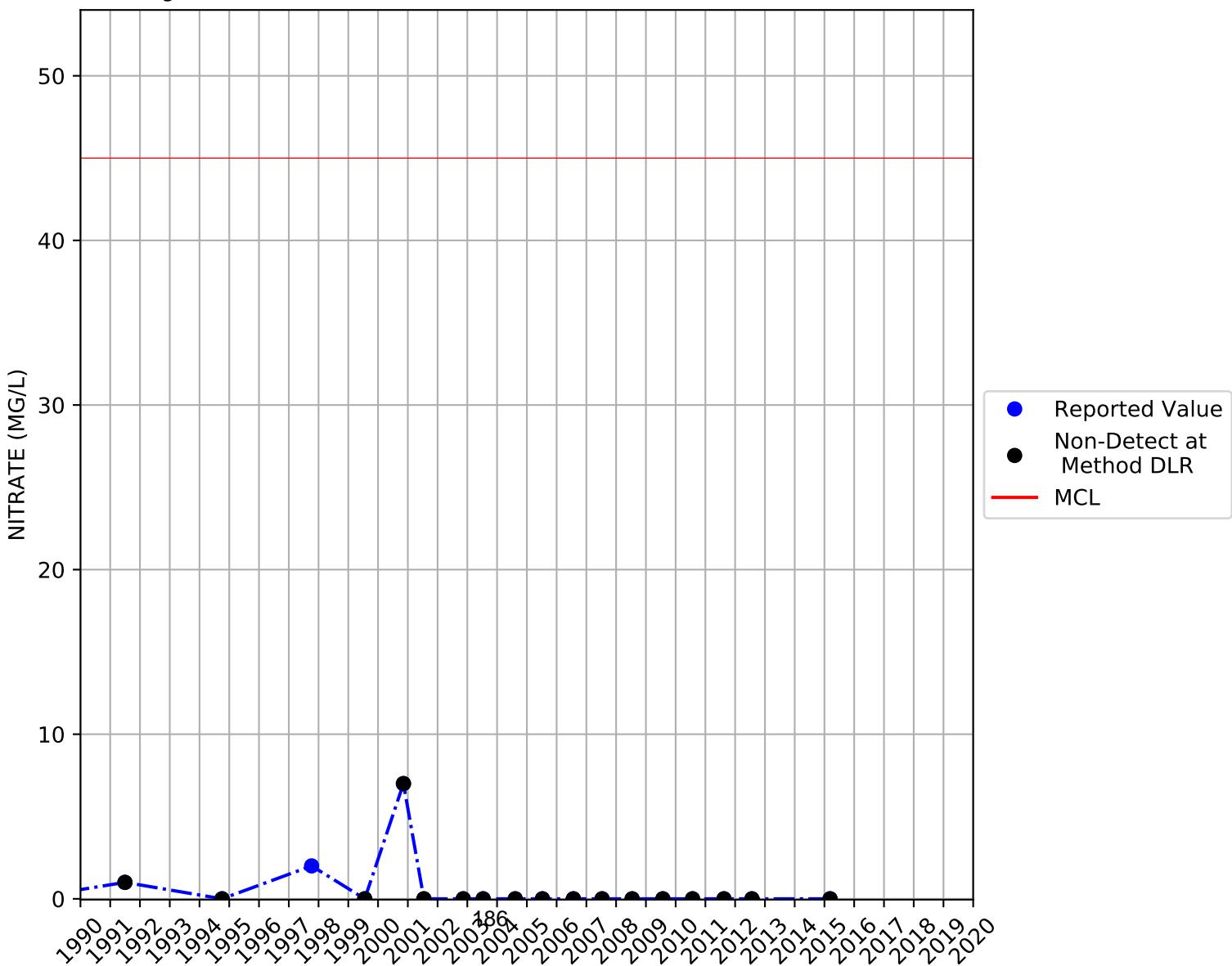
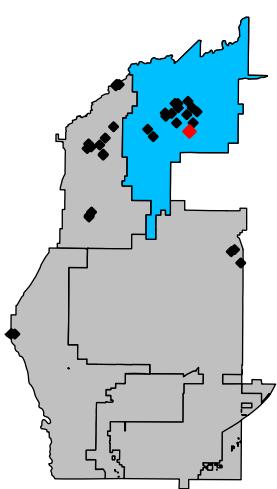
URANIUM (PCI/L)
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



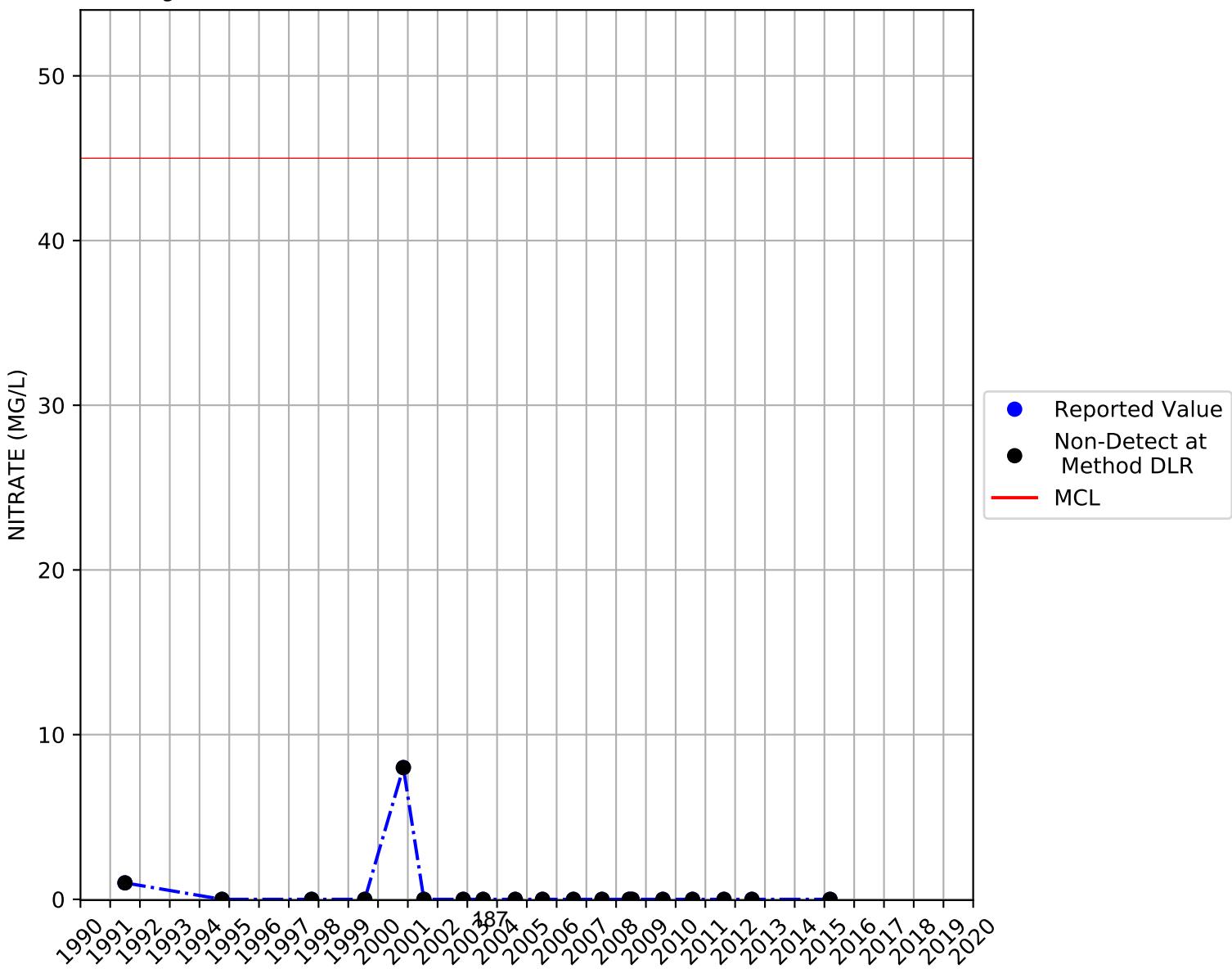
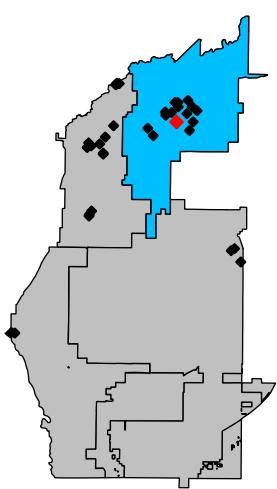
URANIUM (PCI/L)
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



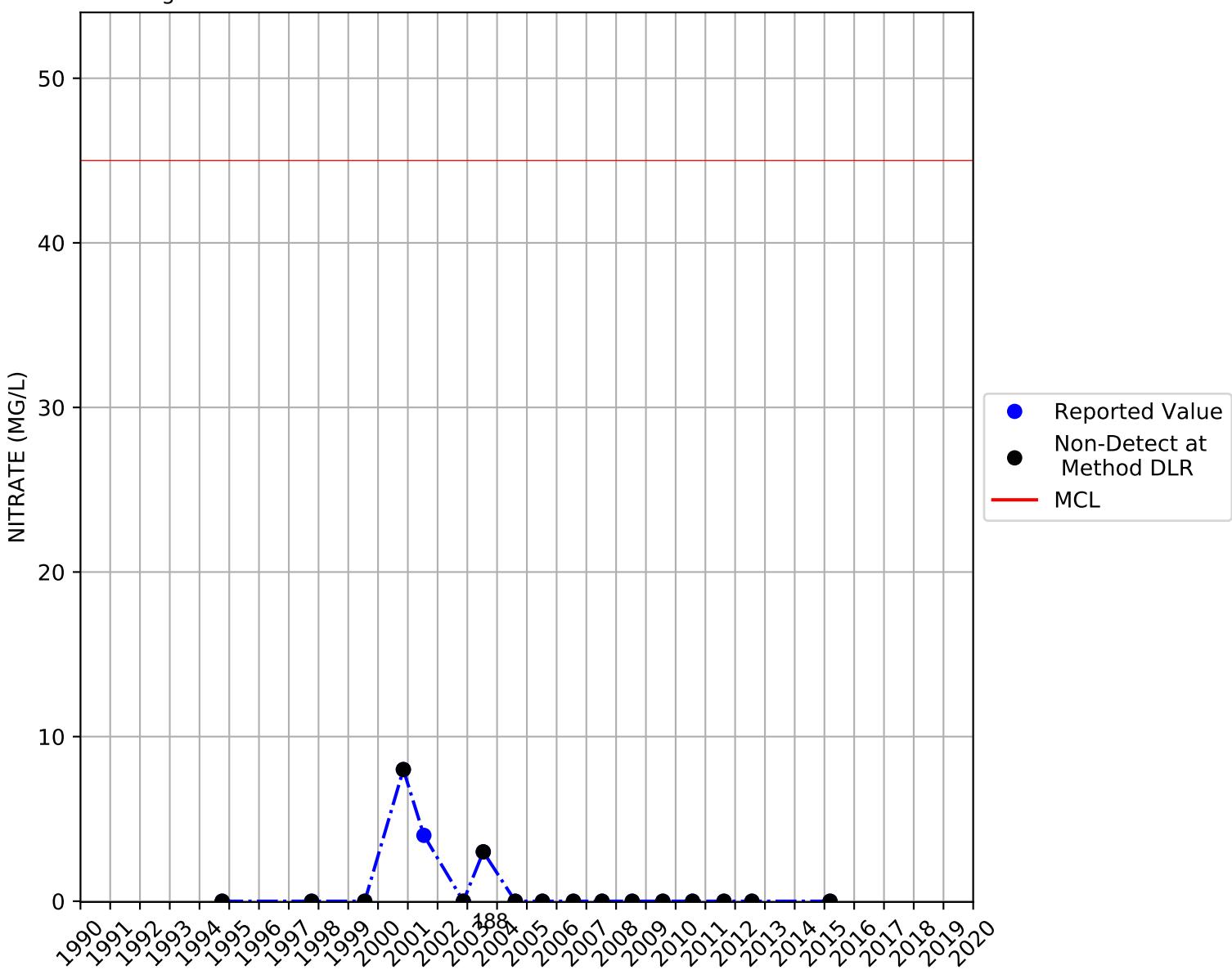
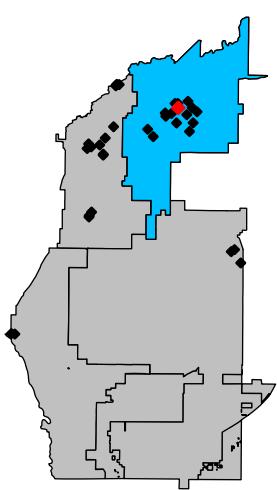
NITRATE (AS NO₃)
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



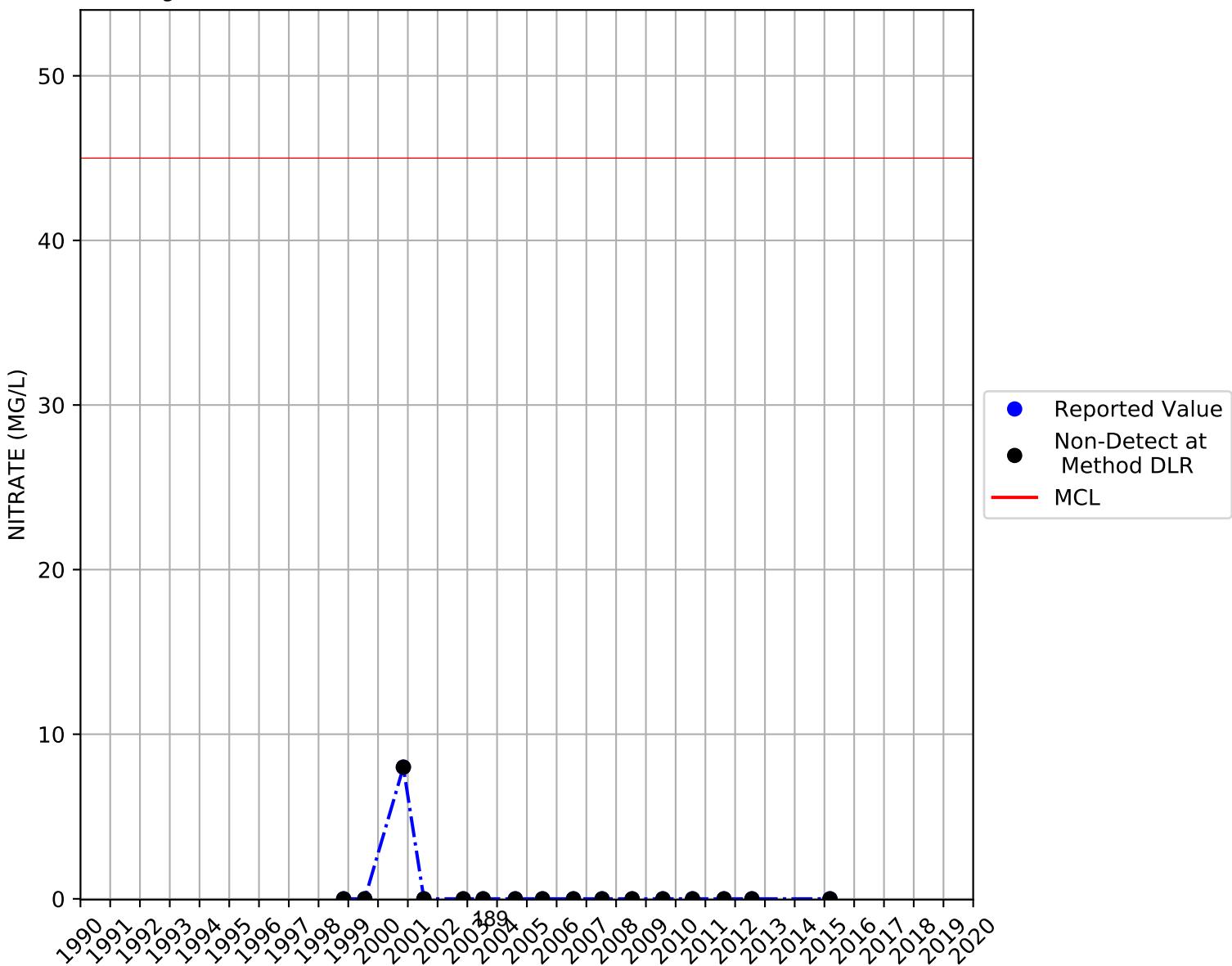
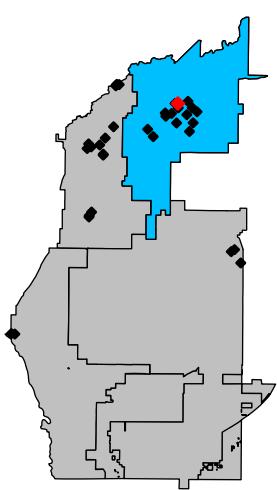
NITRATE (AS NO₃)
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



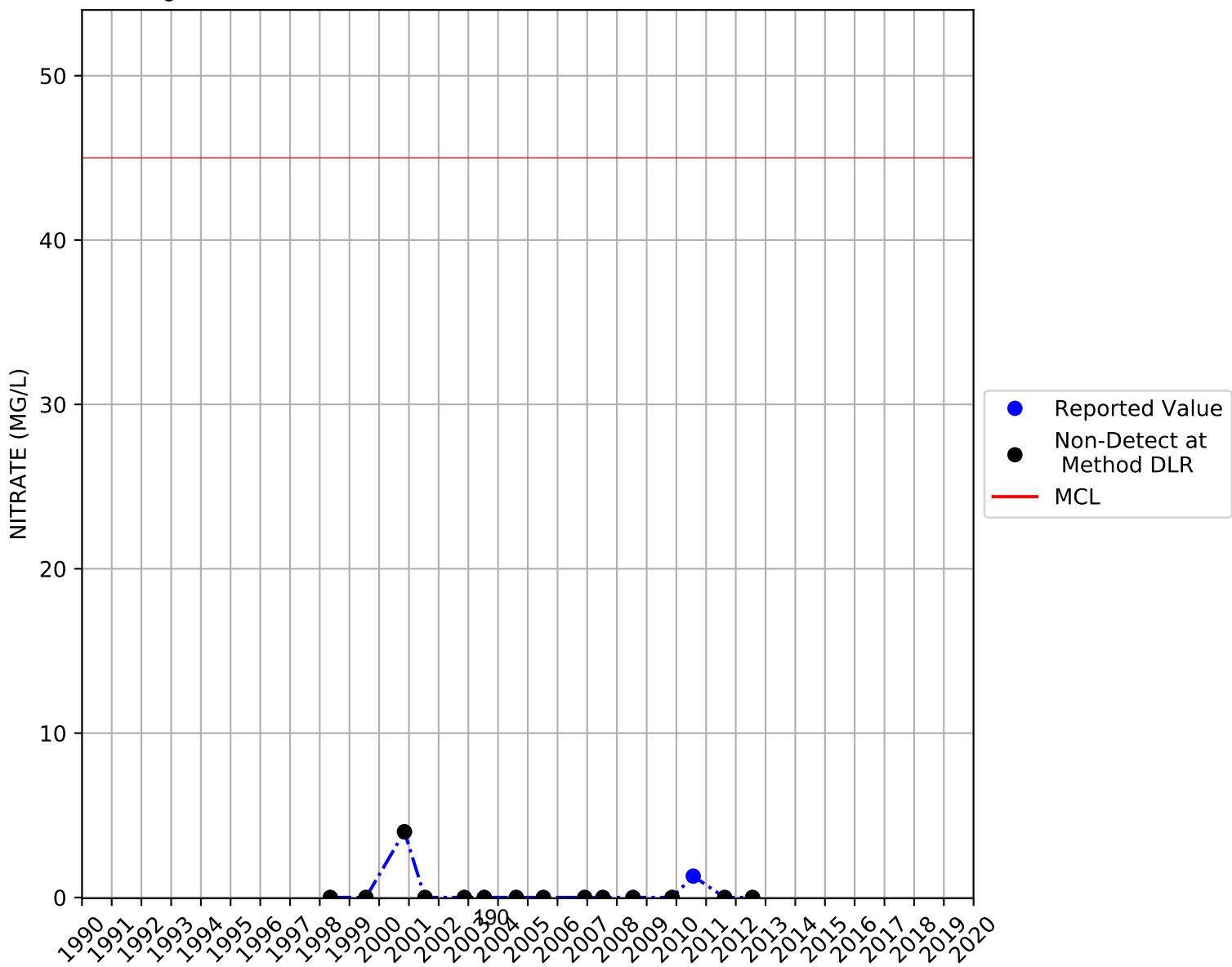
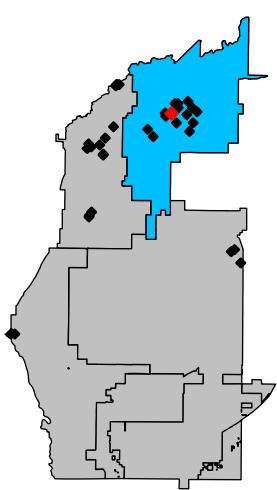
NITRATE (AS NO₃)
1610003-031 WELL 38
Mid-Kings River GSA



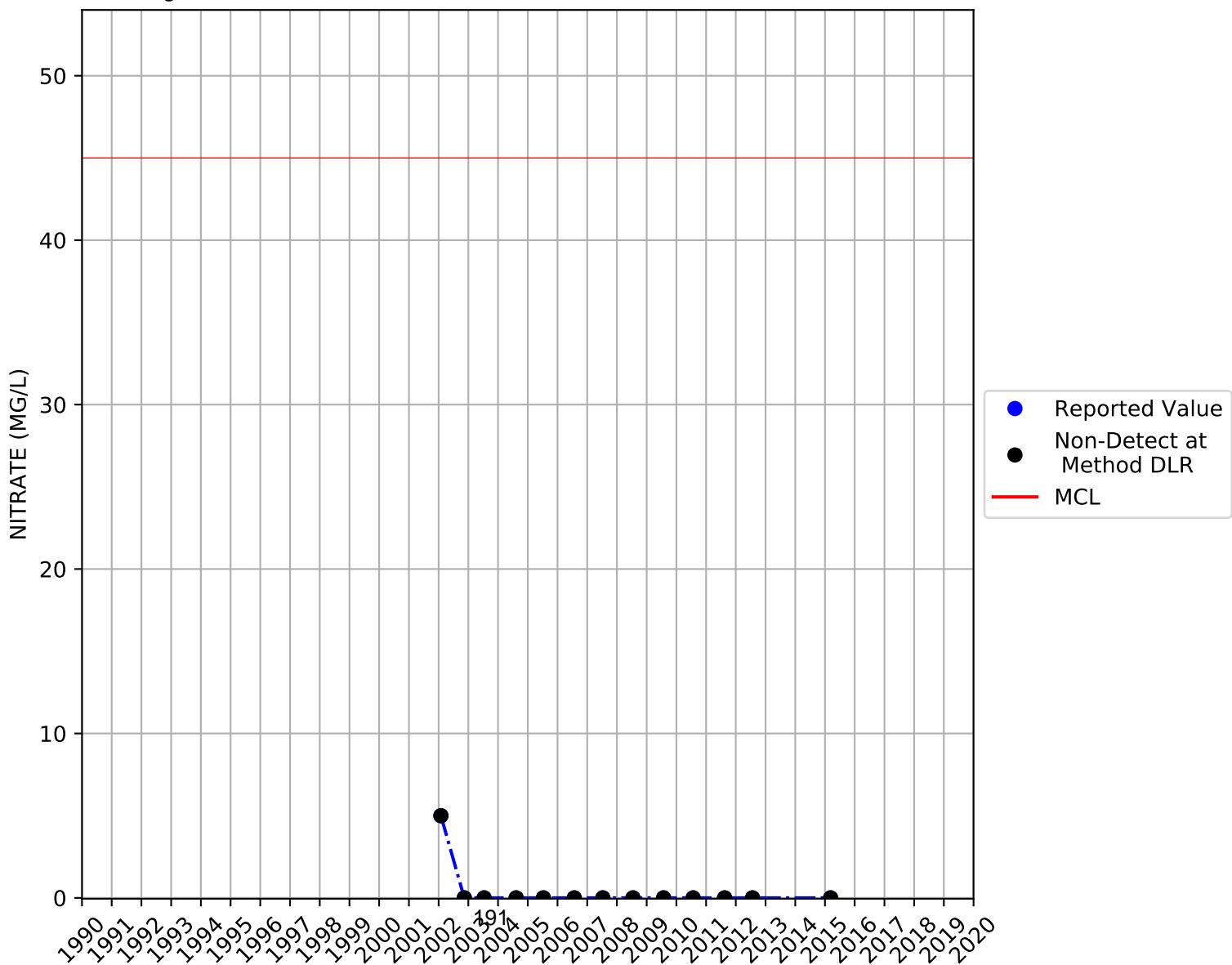
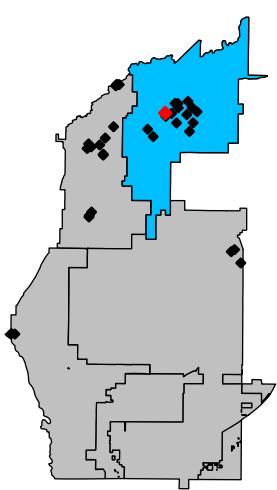
NITRATE (AS NO₃)
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



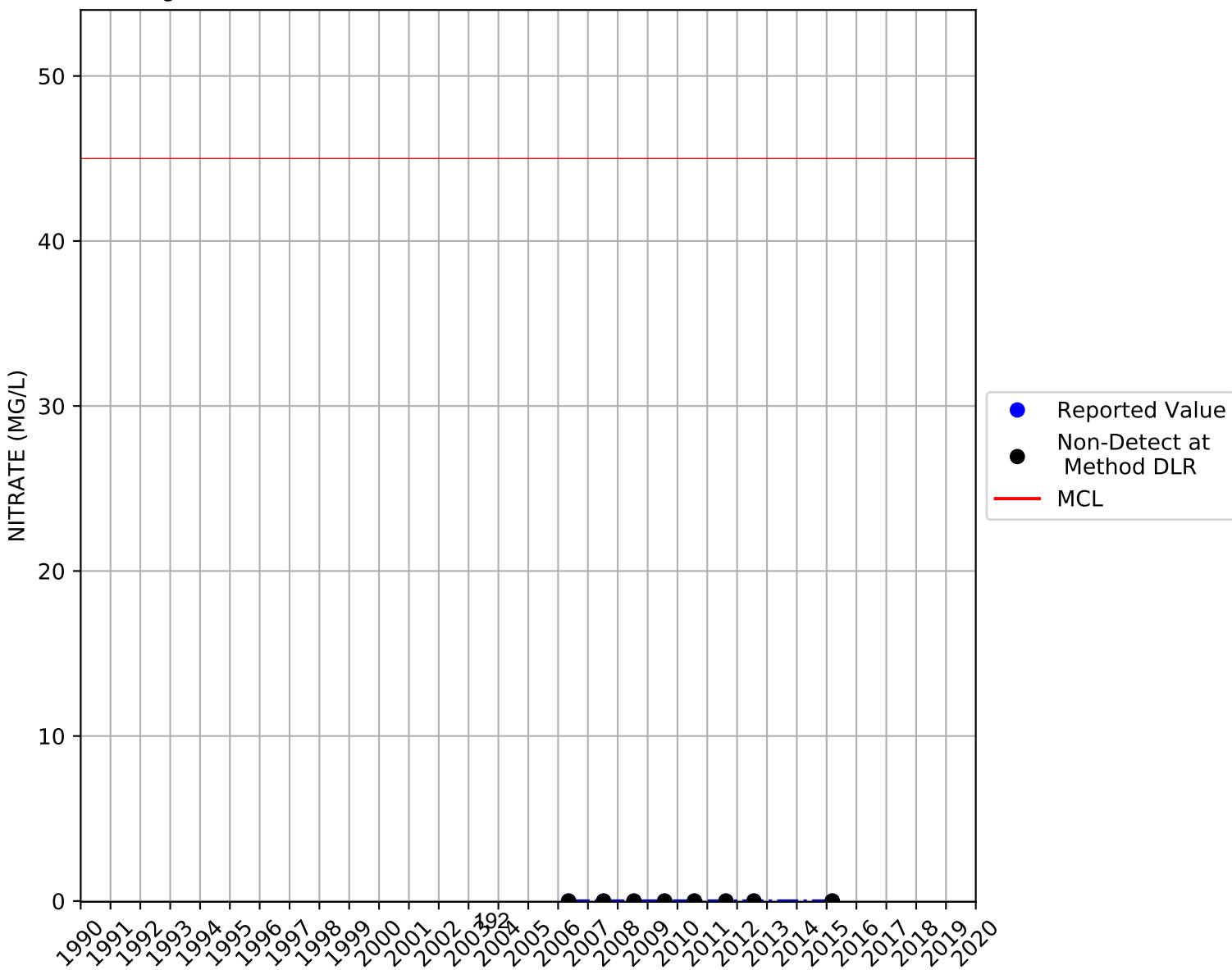
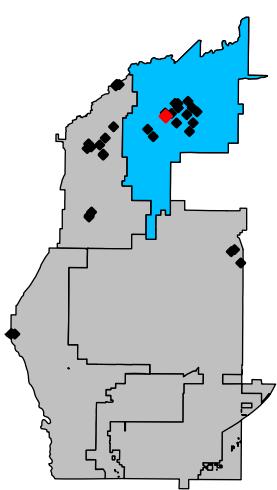
NITRATE (AS NO₃)
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



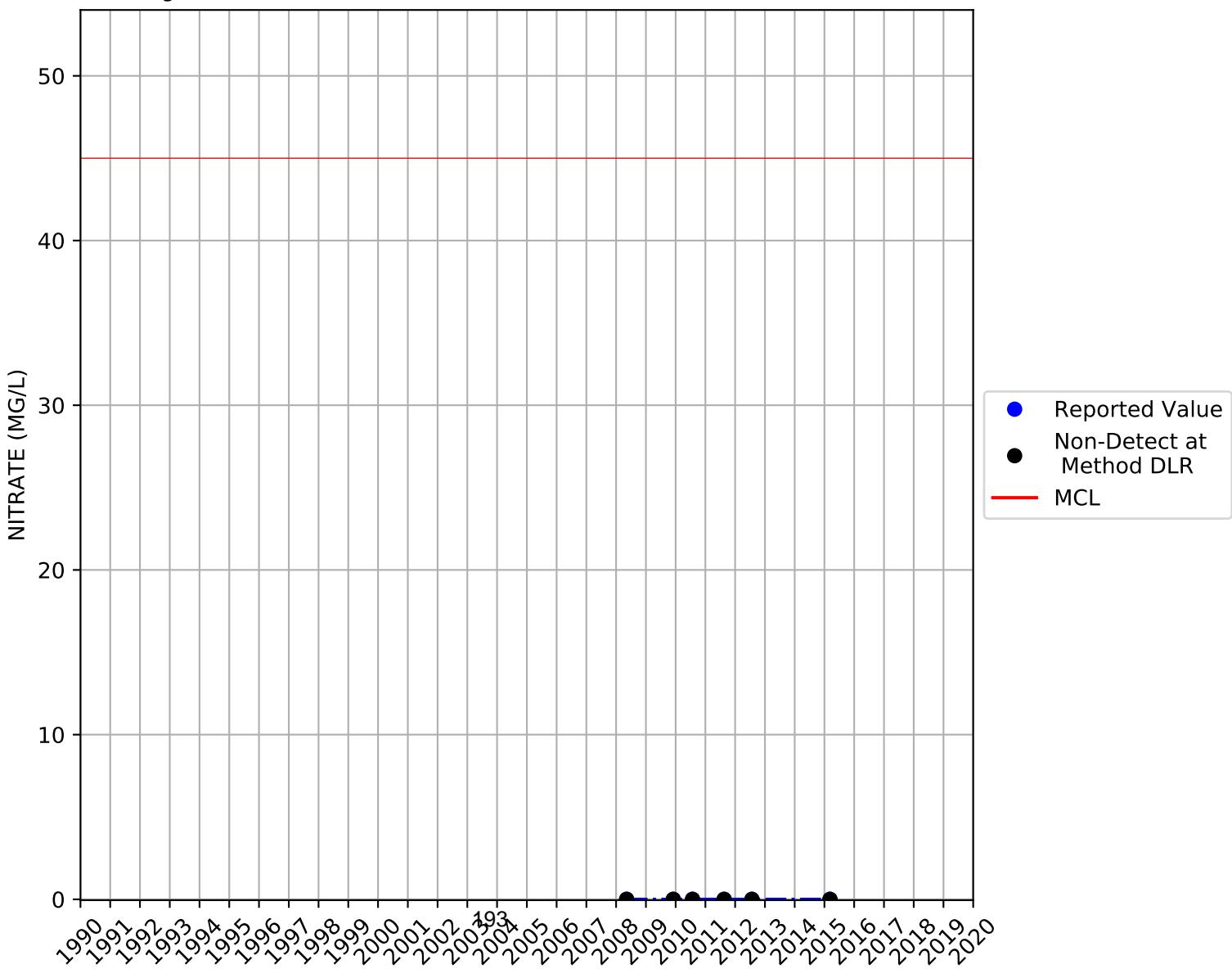
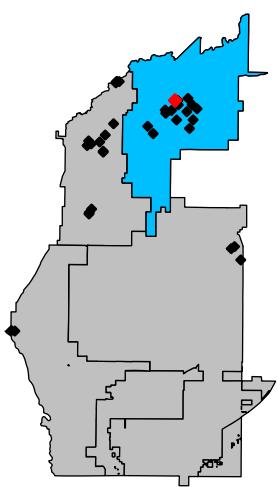
NITRATE (AS NO₃)
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



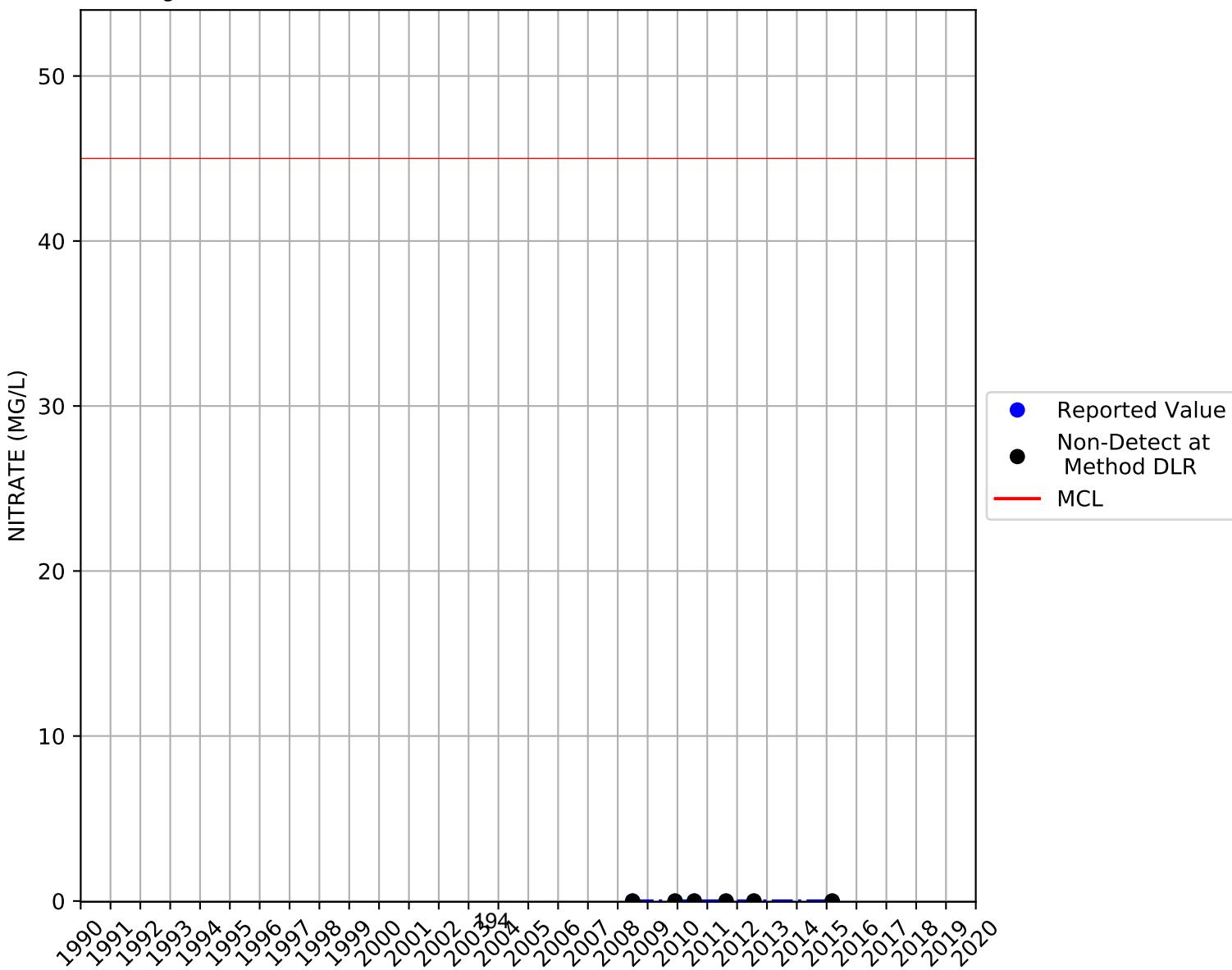
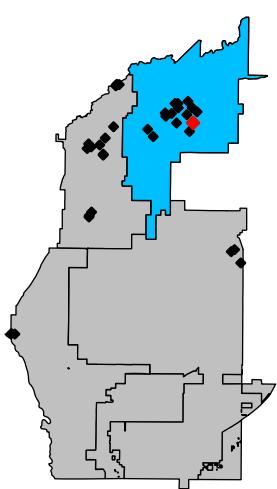
NITRATE (AS NO₃)
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



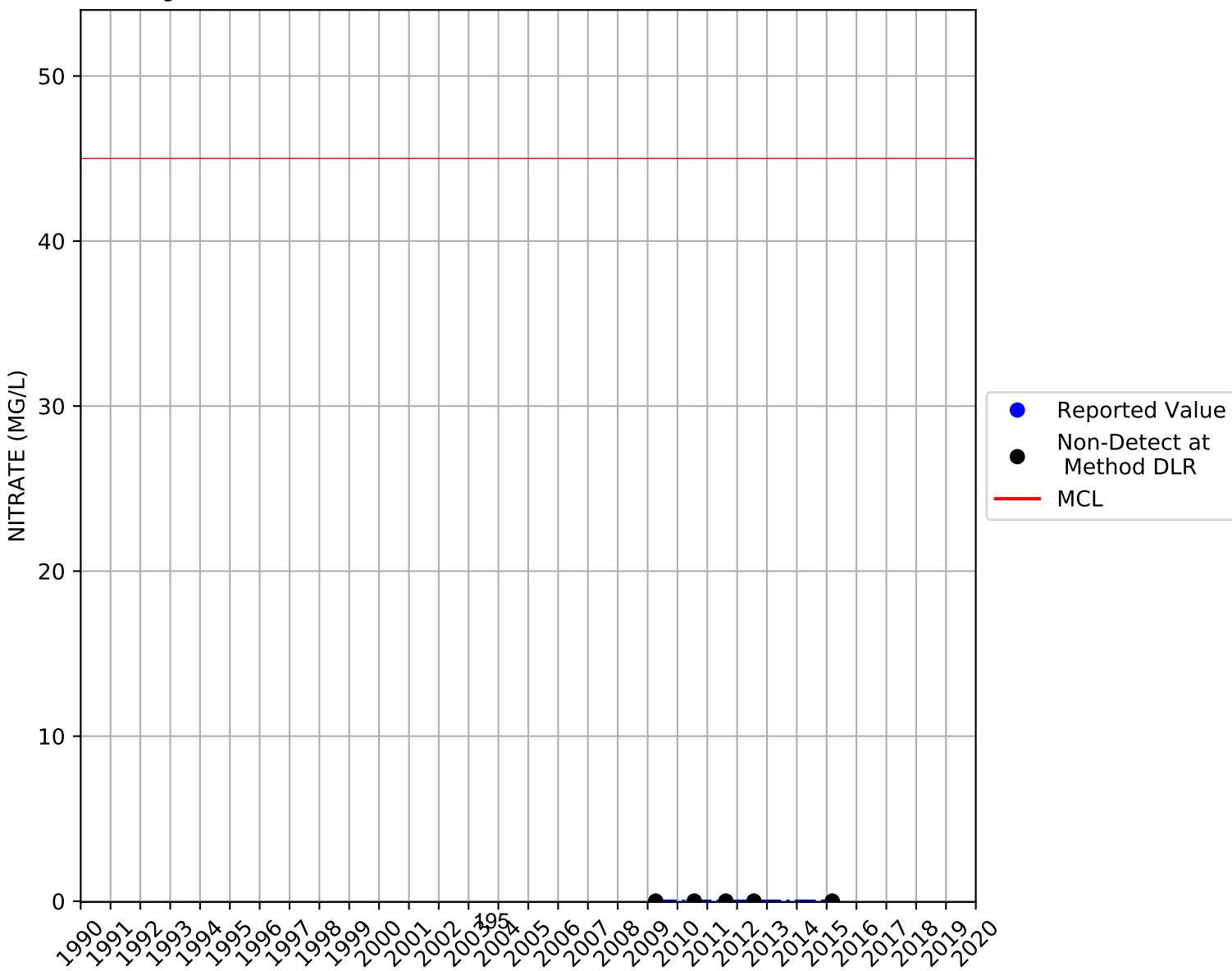
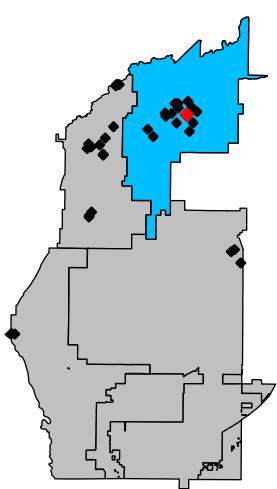
NITRATE (AS NO₃)
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



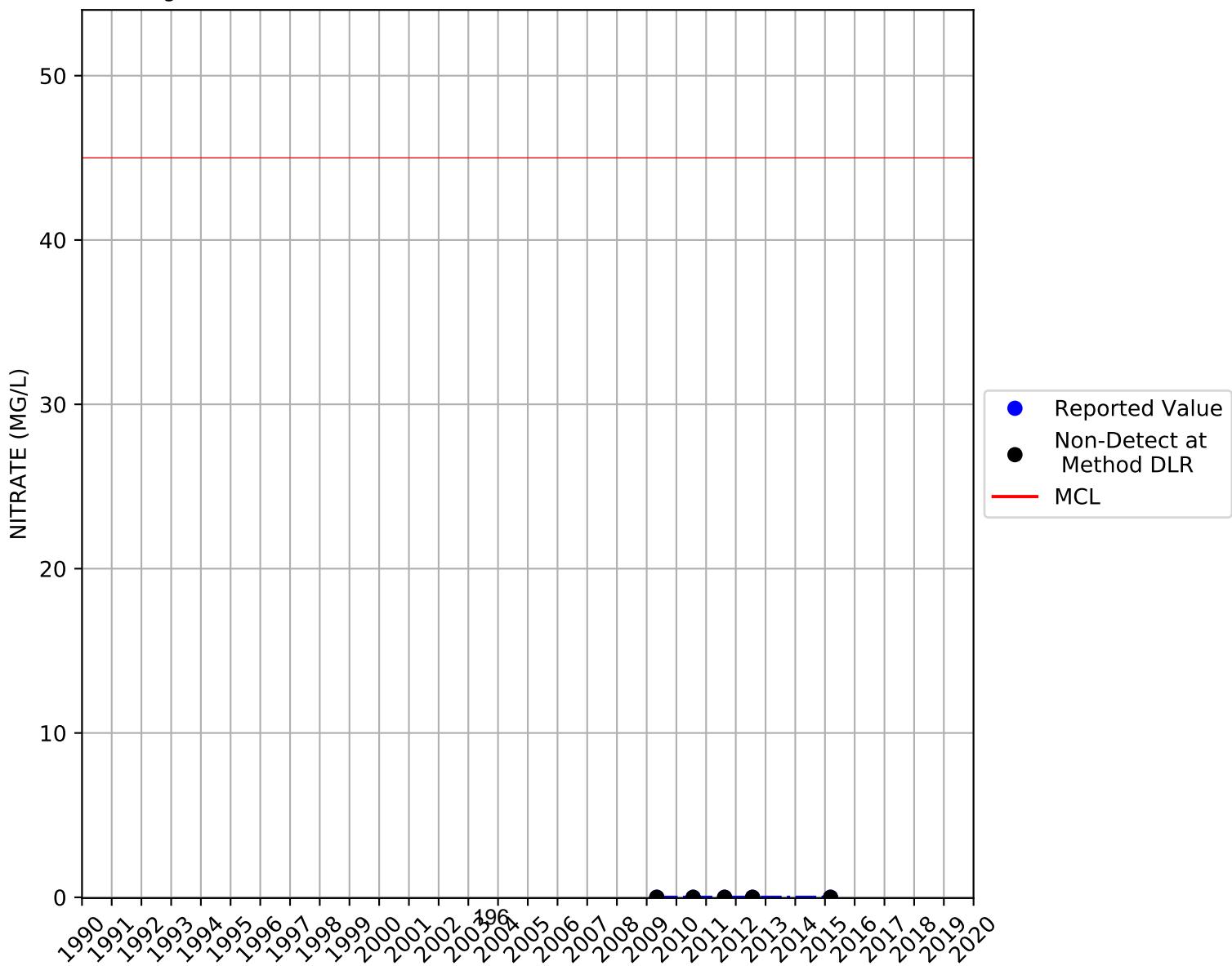
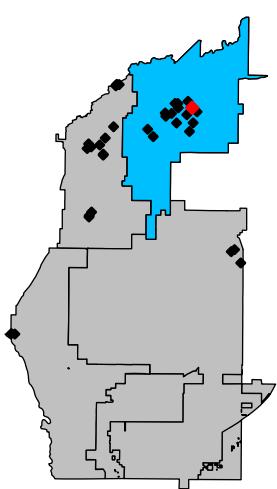
NITRATE (AS NO₃)
1610003-039 WELL 45 - RAW
Mid-Kings River GSA



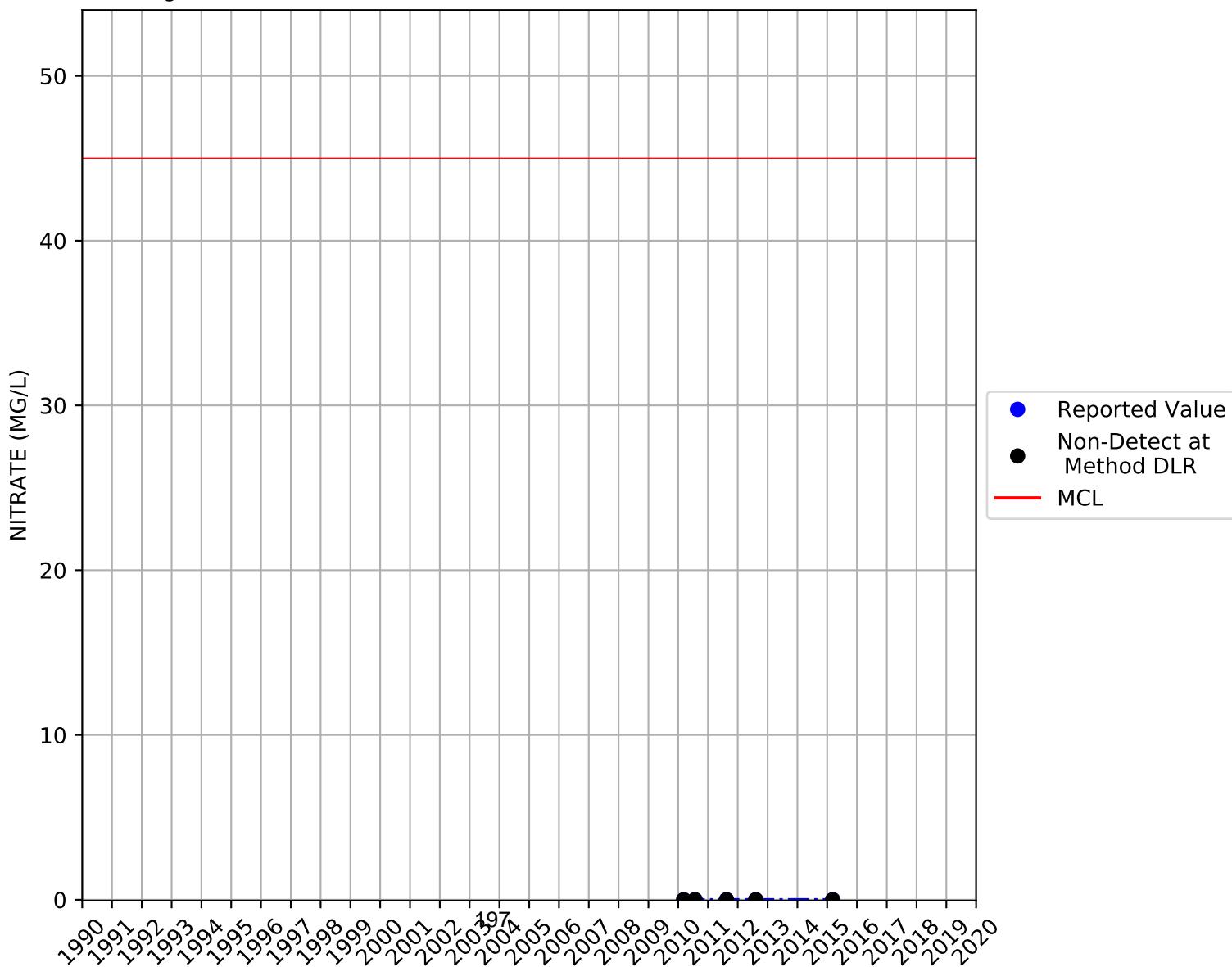
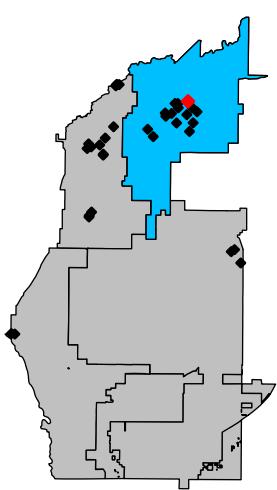
NITRATE (AS NO₃)
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



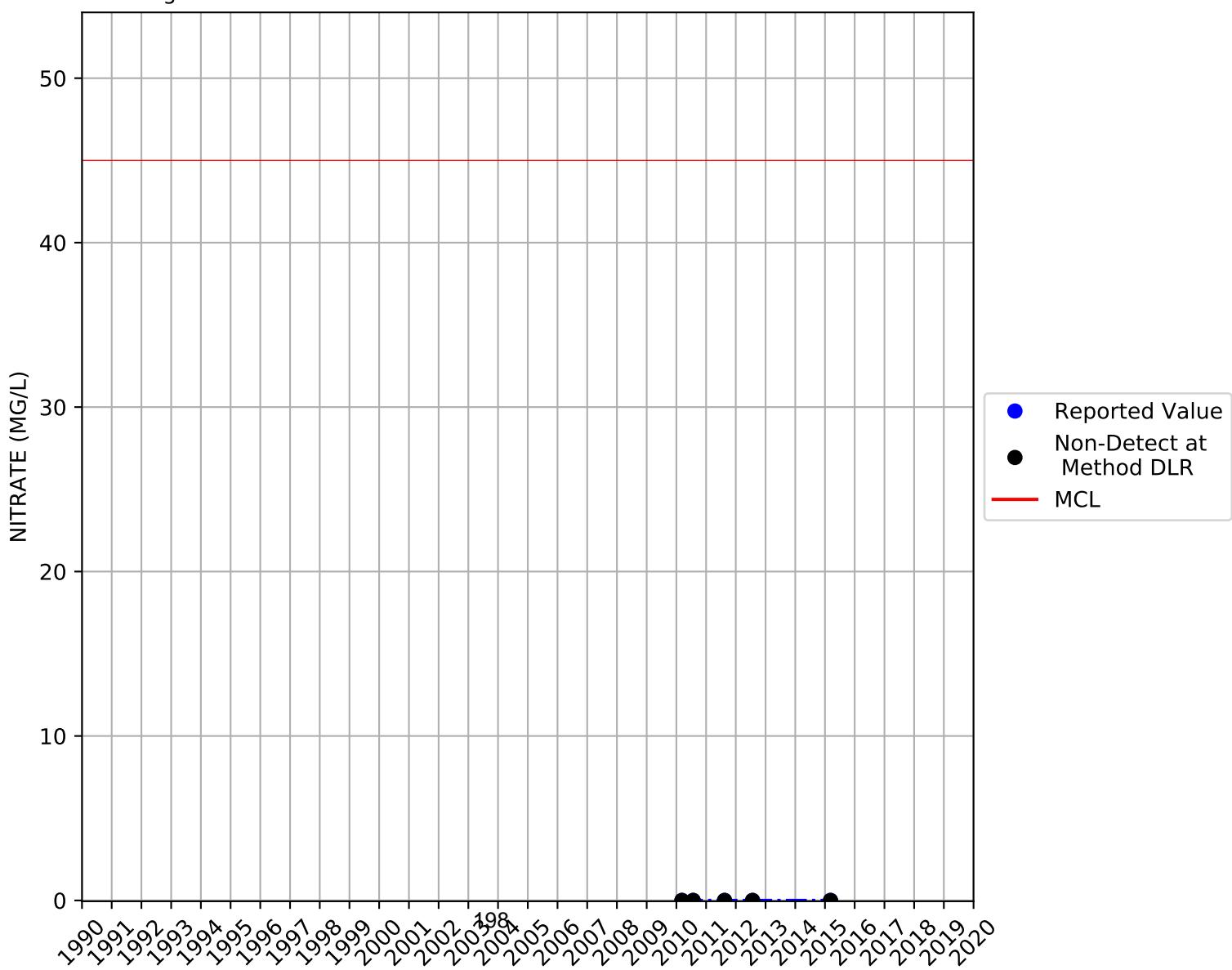
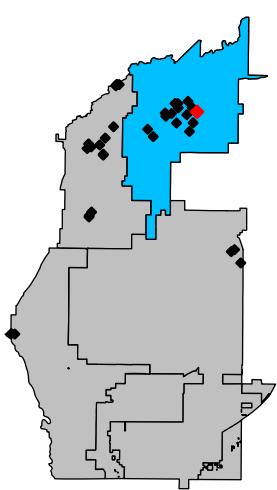
NITRATE (AS NO₃)
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



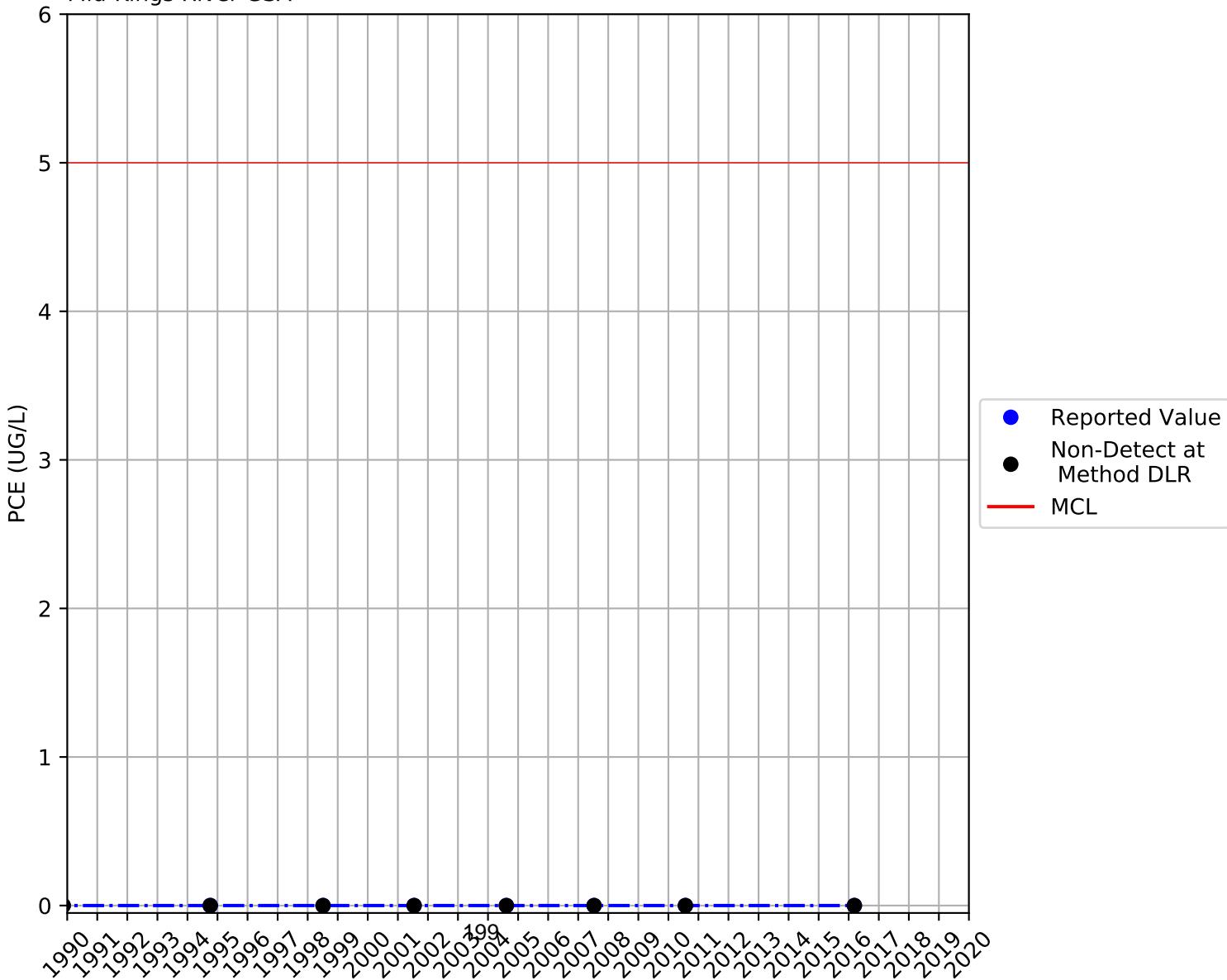
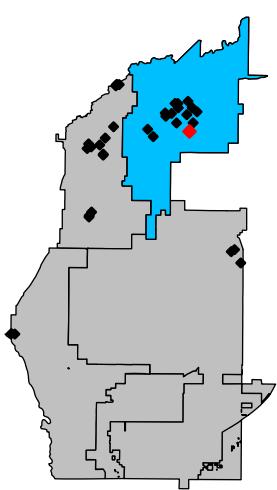
NITRATE (AS NO₃)
1610003-042 WELL 48 - RAW
Mid-Kings River GSA



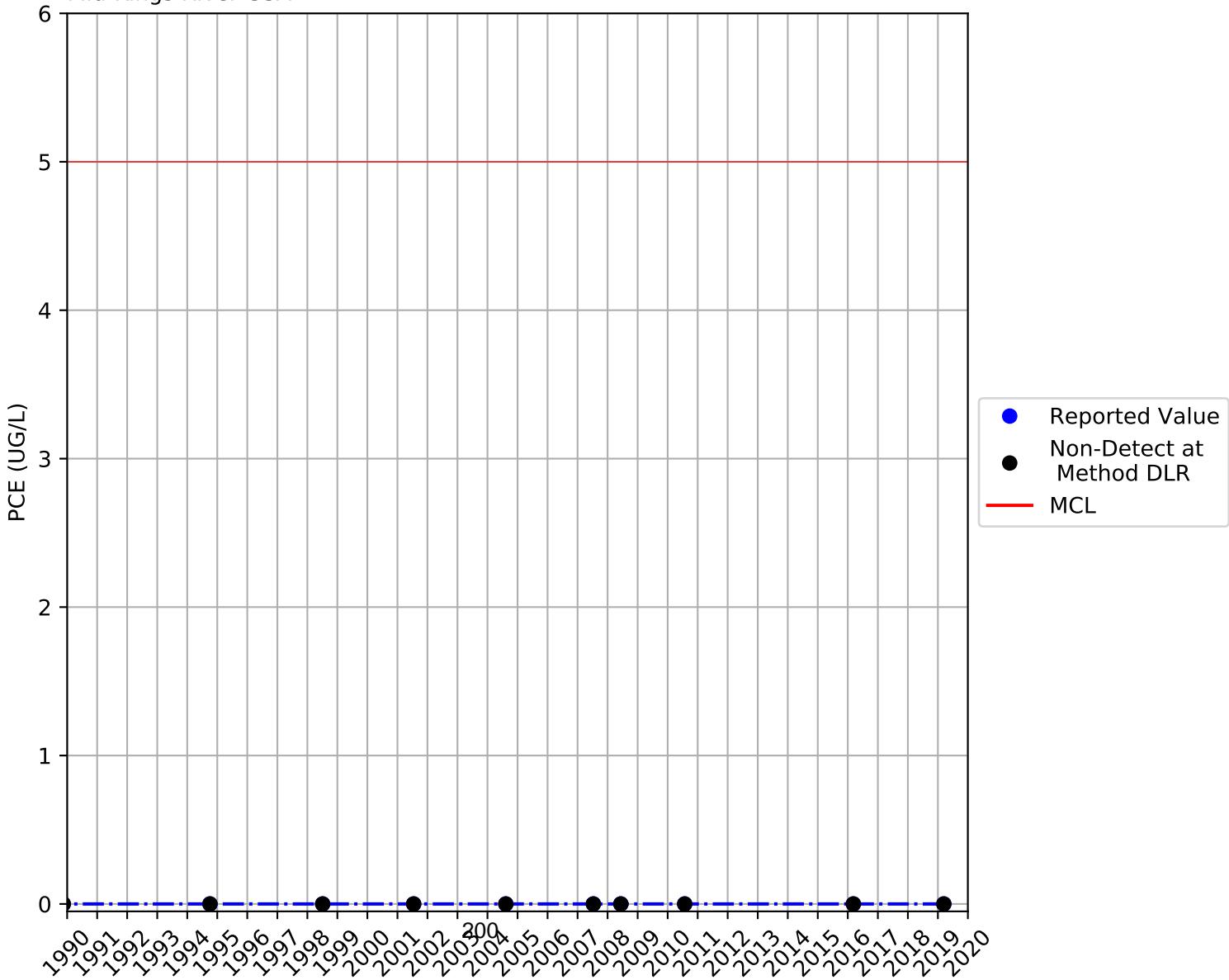
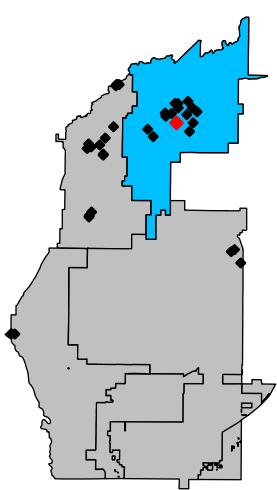
NITRATE (AS NO₃)
1610003-043 WELL 49 - RAW
Mid-Kings River GSA



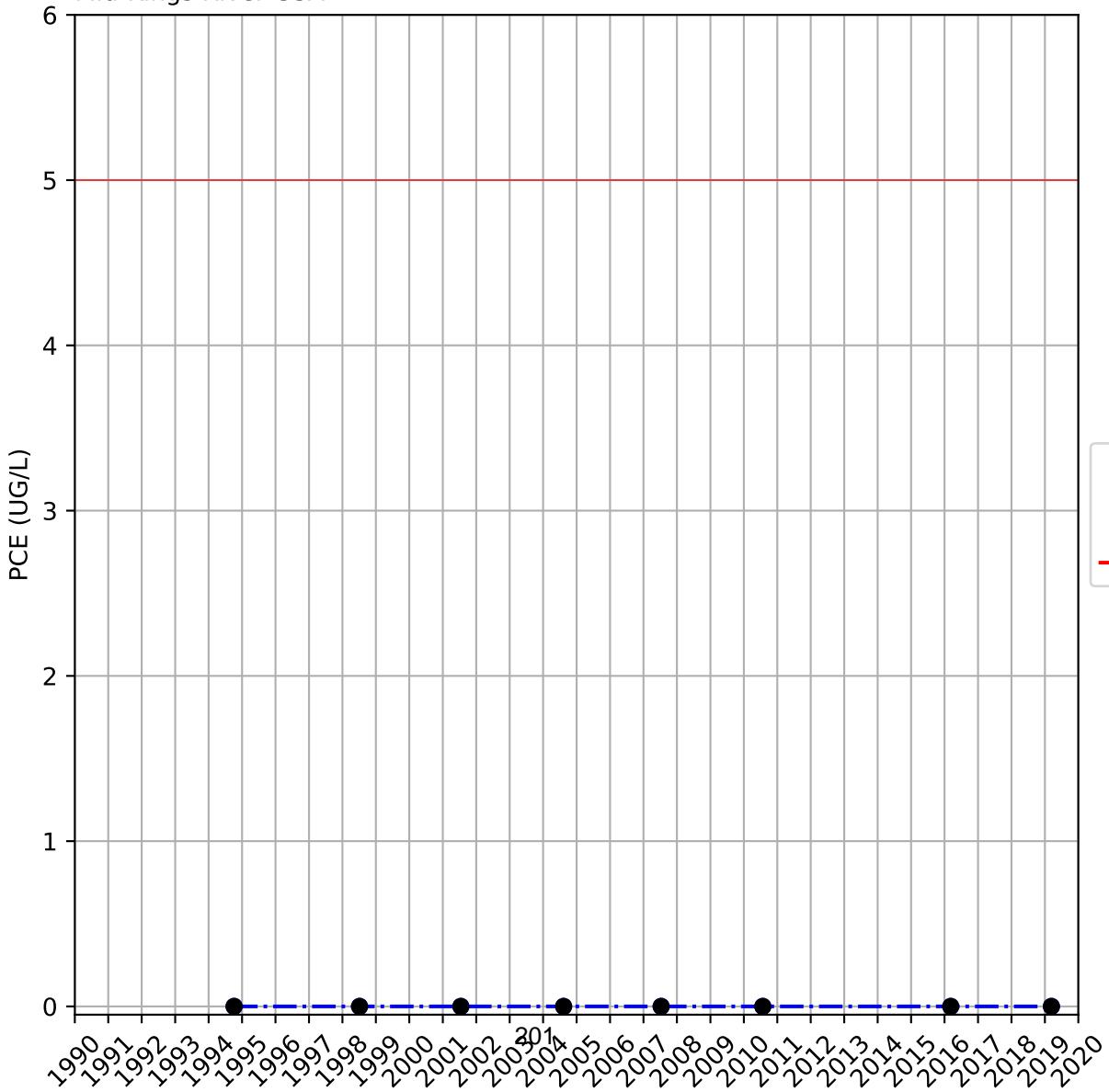
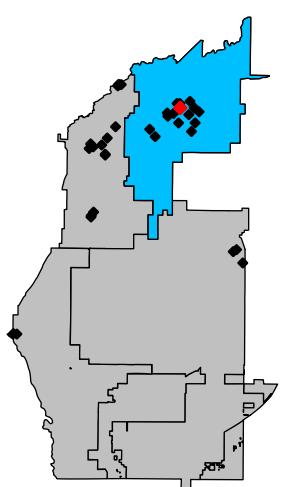
TETRACHLOROETHYLENE
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



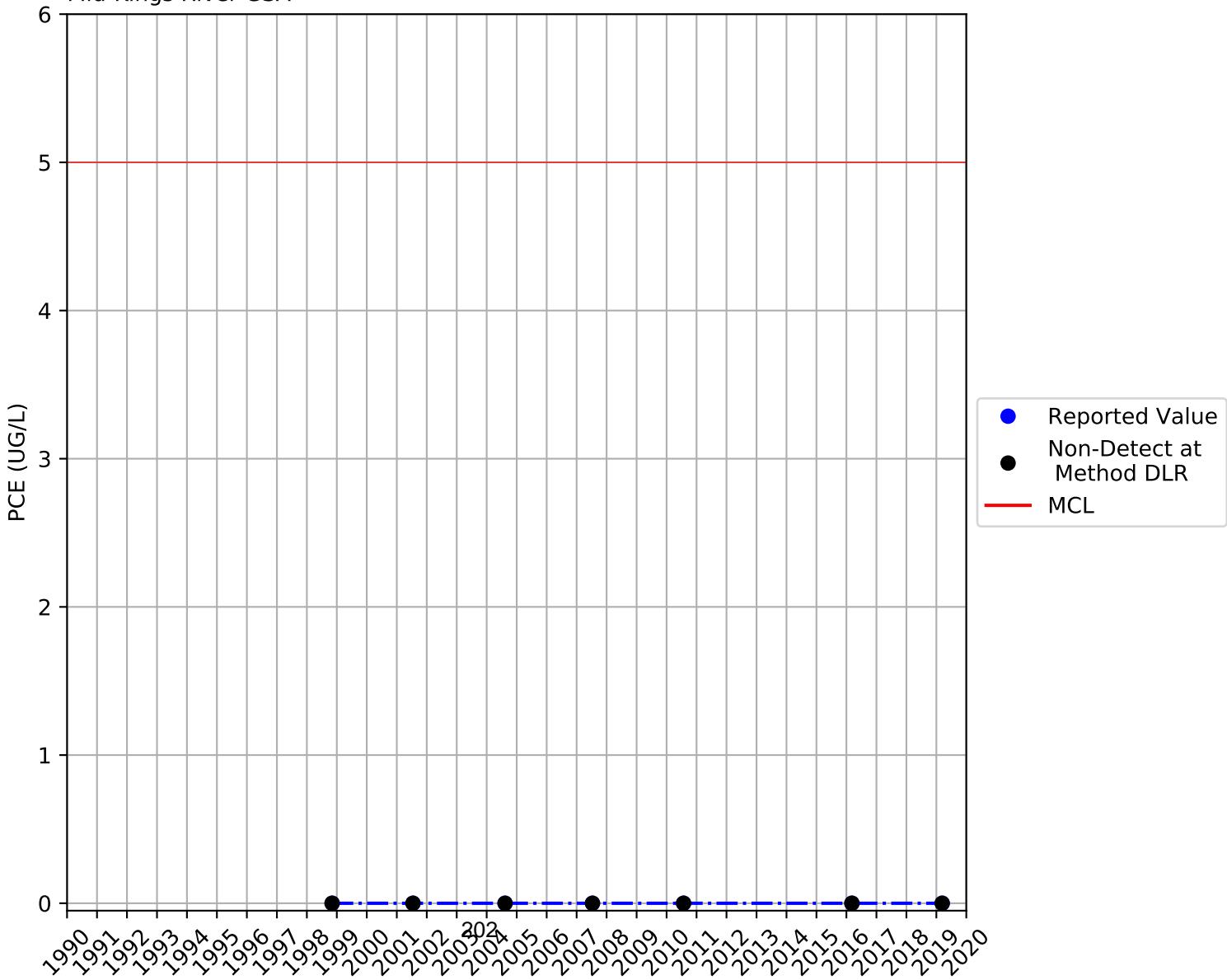
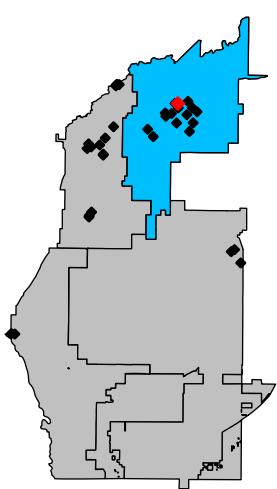
TETRACHLOROETHYLENE
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



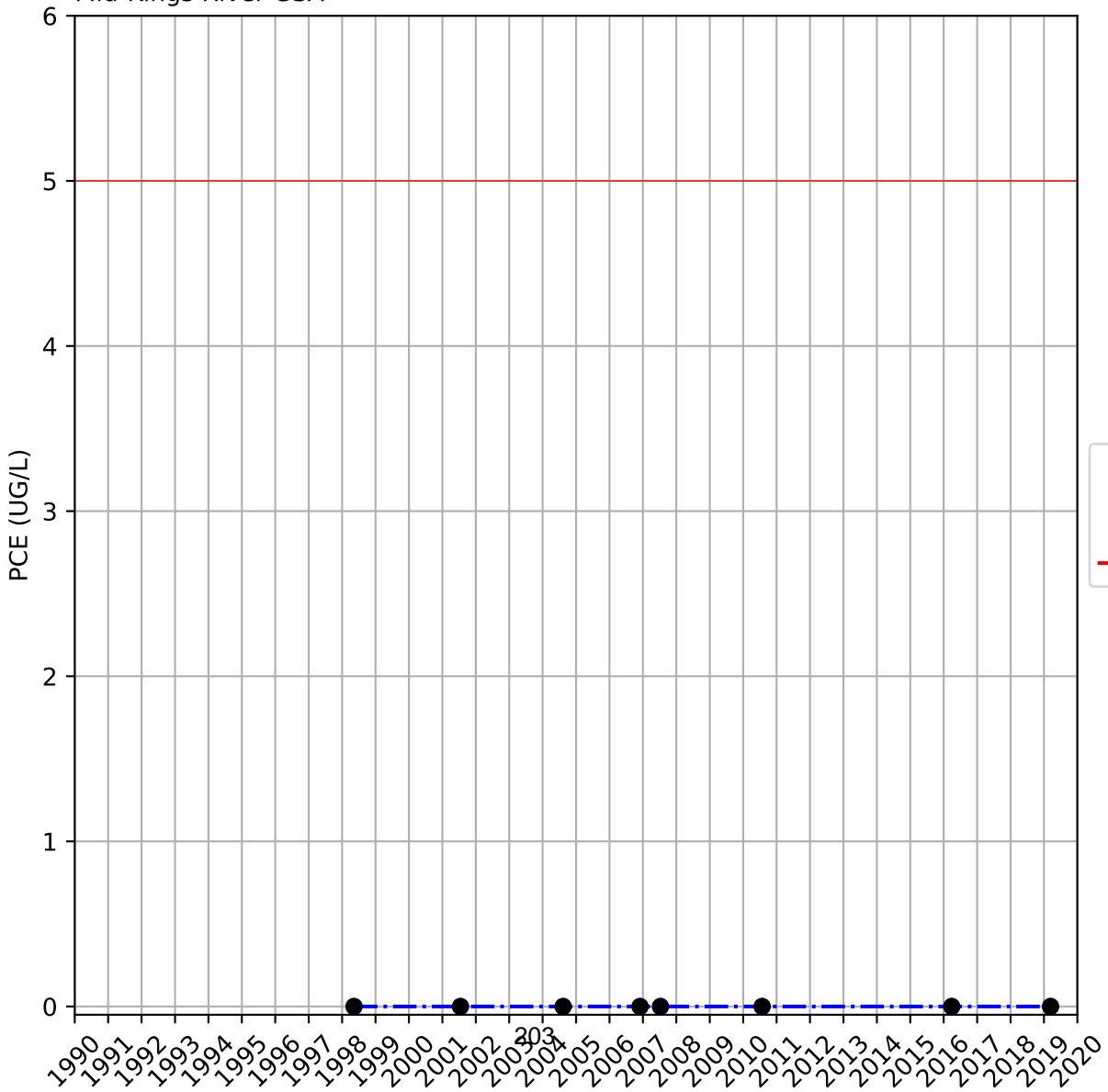
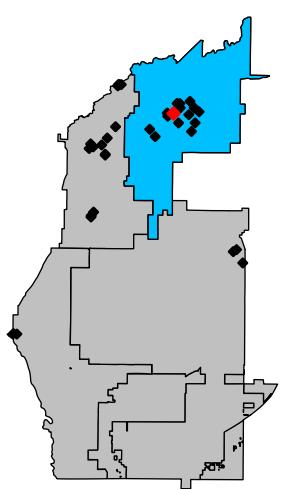
TETRACHLOROETHYLENE
1610003-031 WELL 38
Mid-Kings River GSA



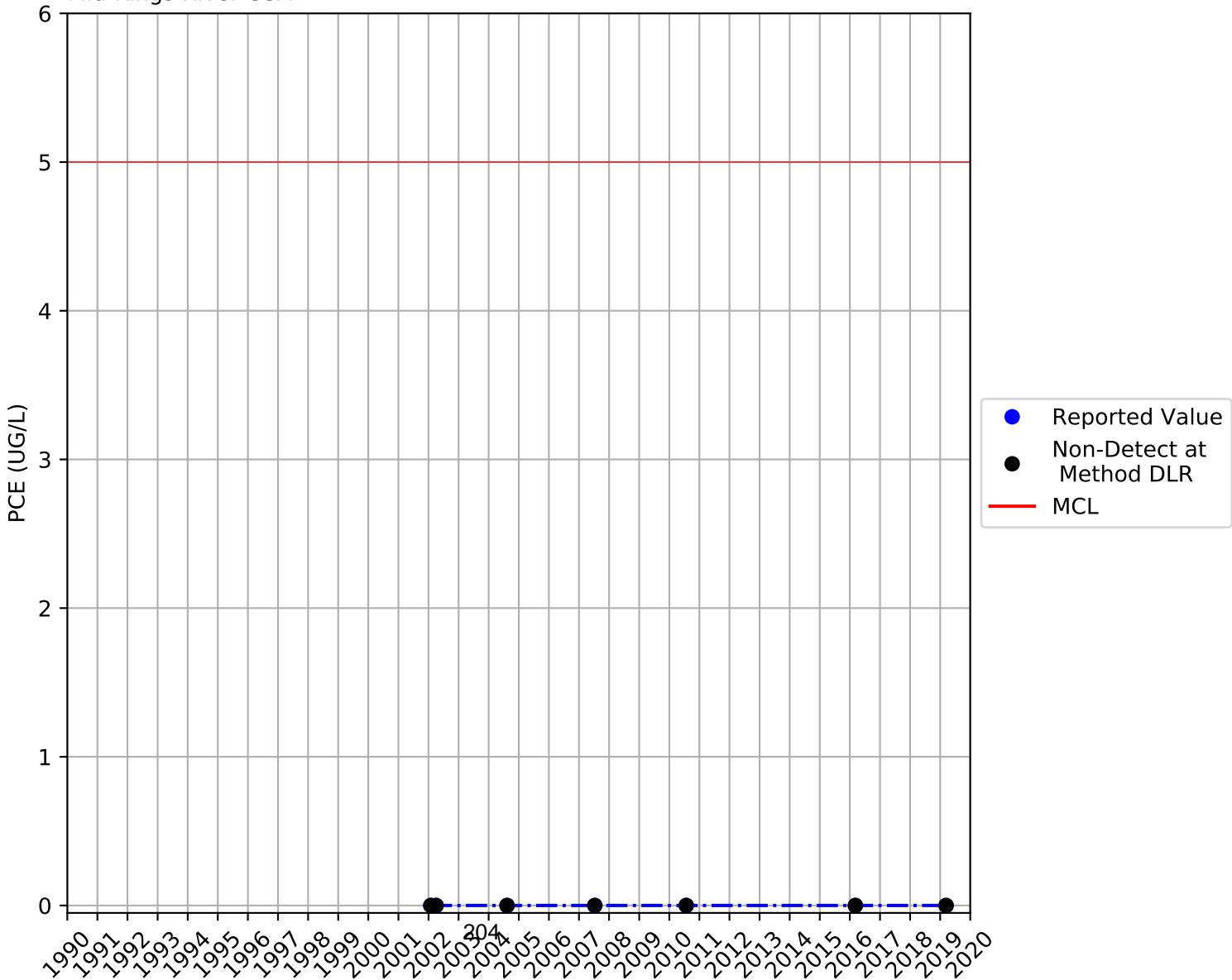
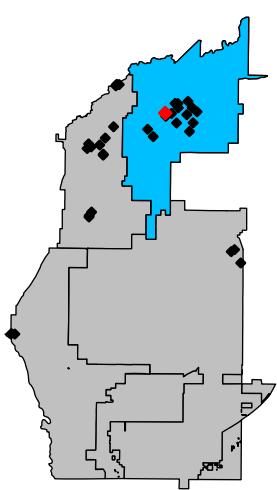
TETRACHLOROETHYLENE
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



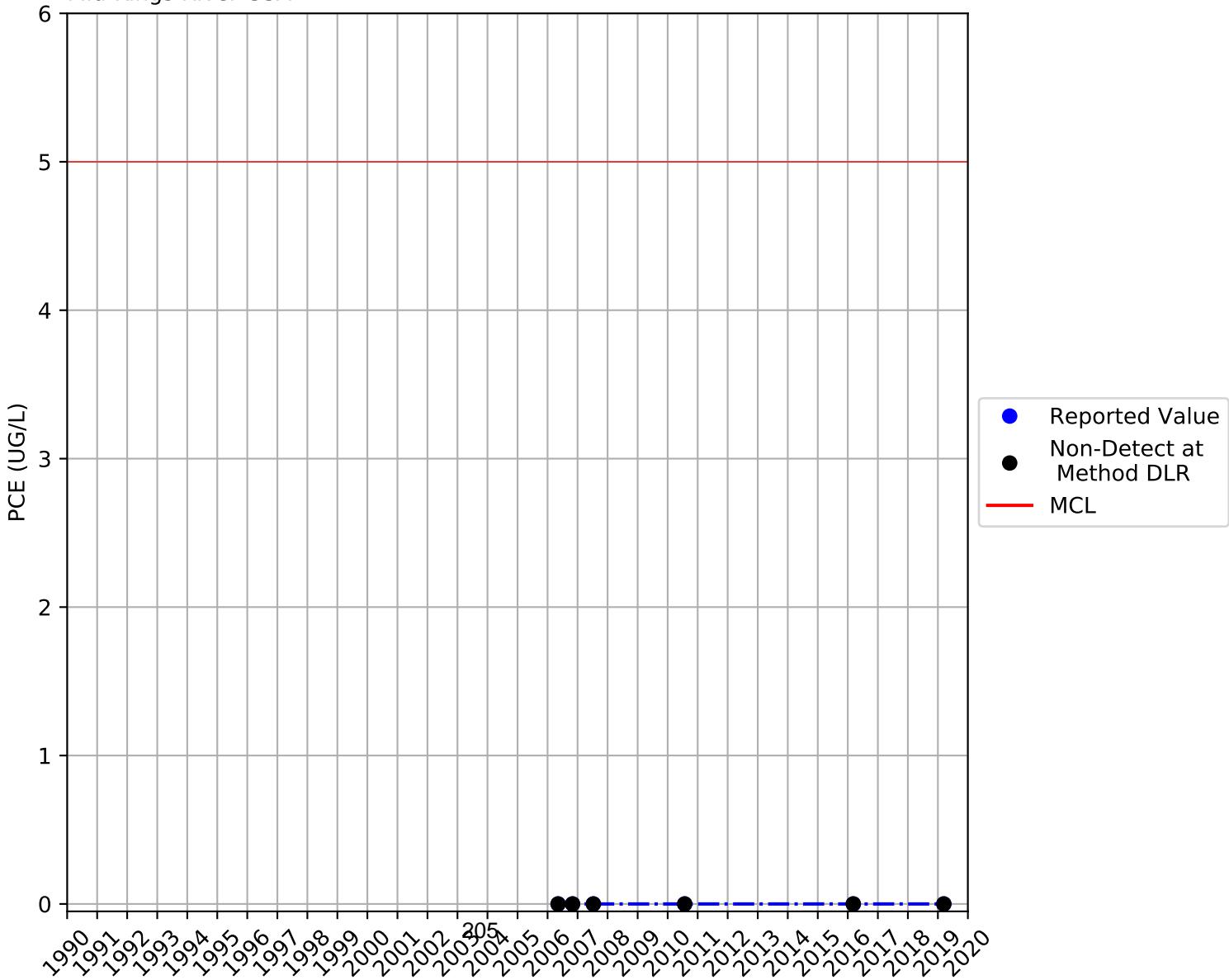
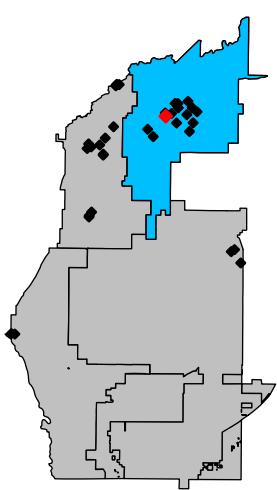
TETRACHLOROETHYLENE
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



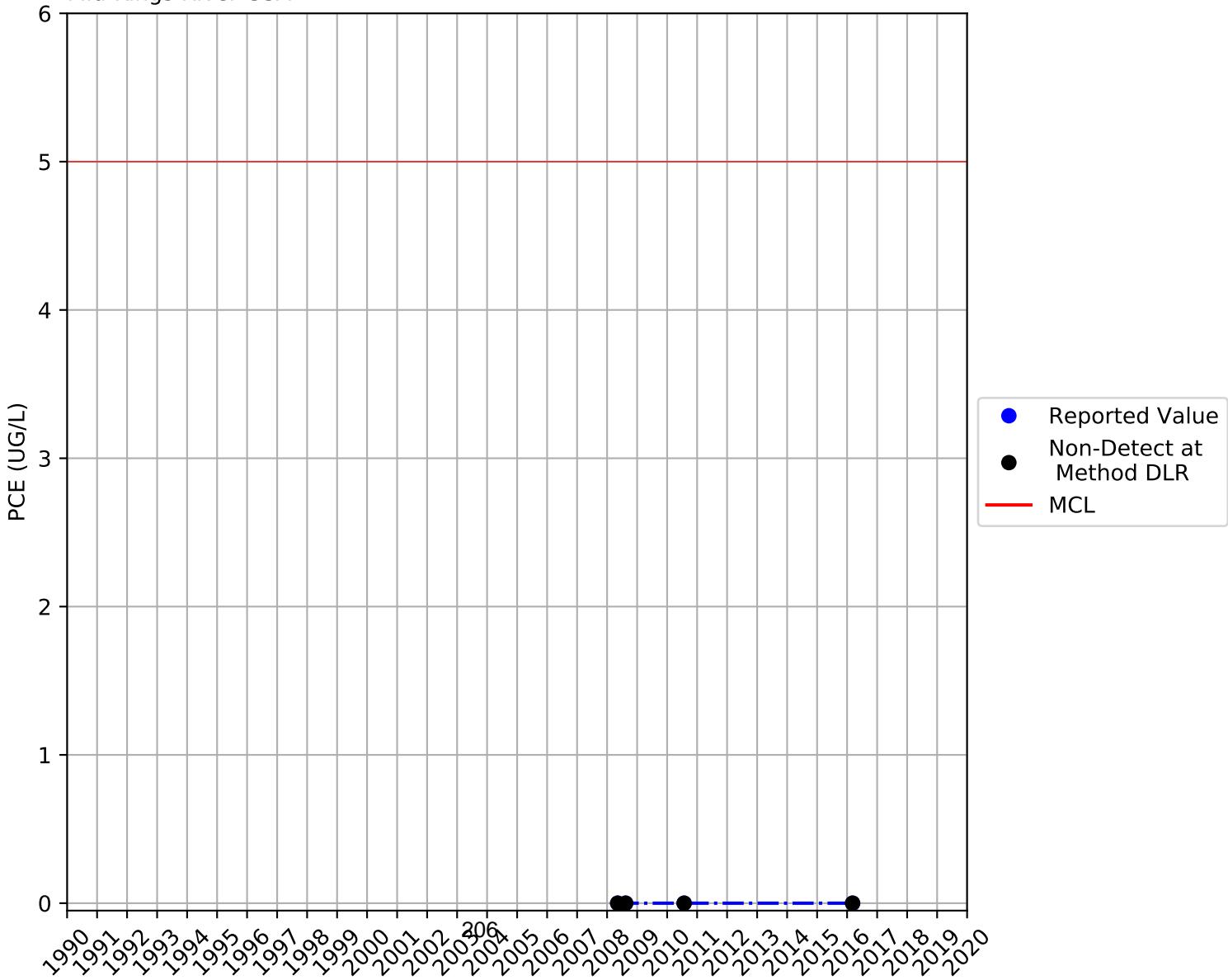
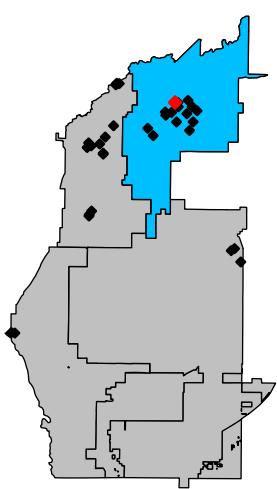
TETRACHLOROETHYLENE
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



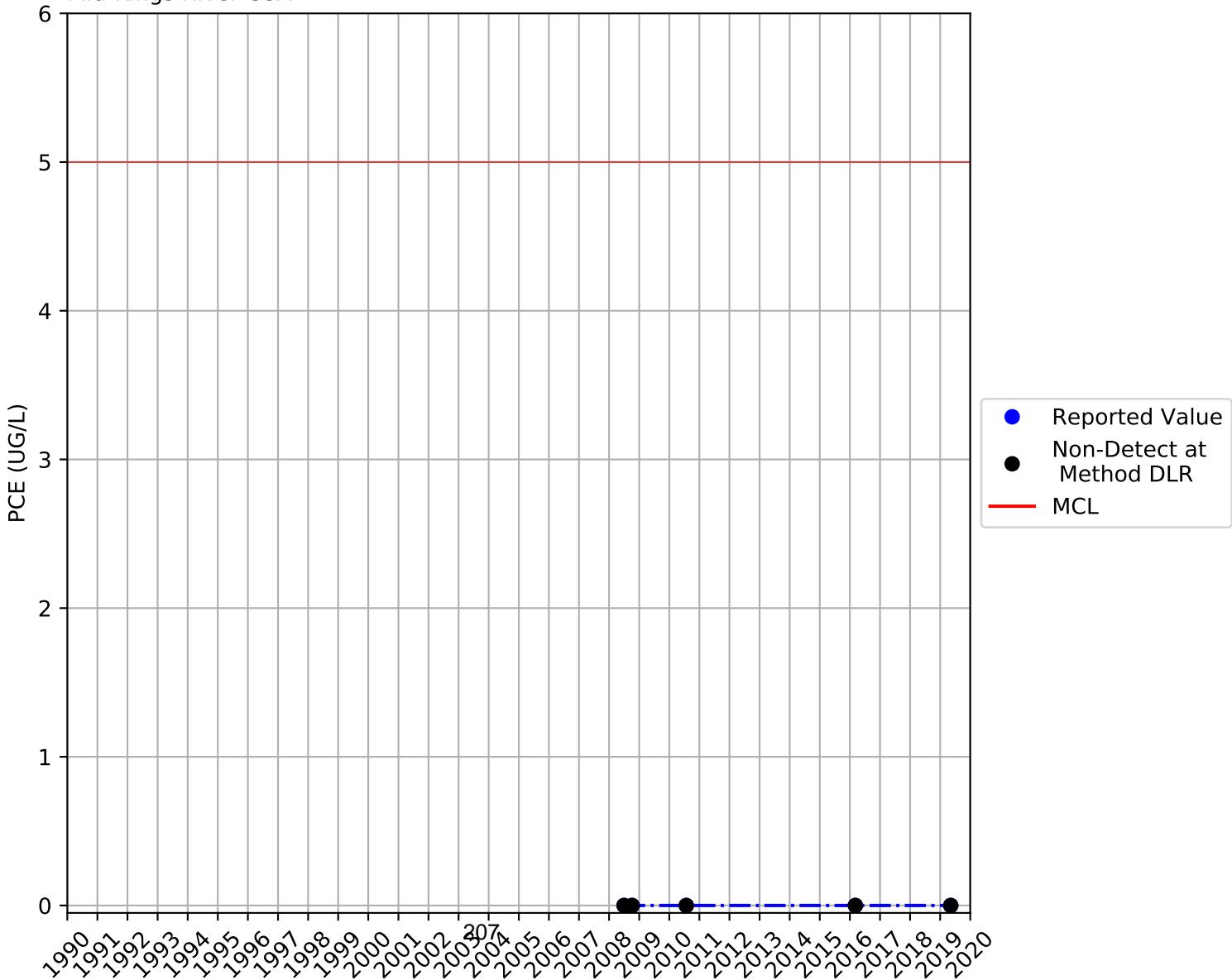
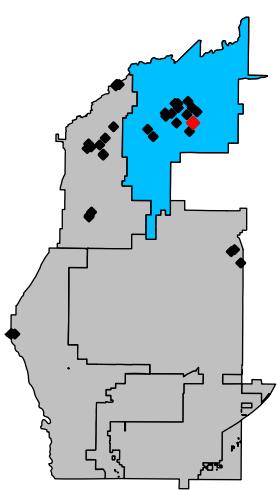
TETRACHLOROETHYLENE
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



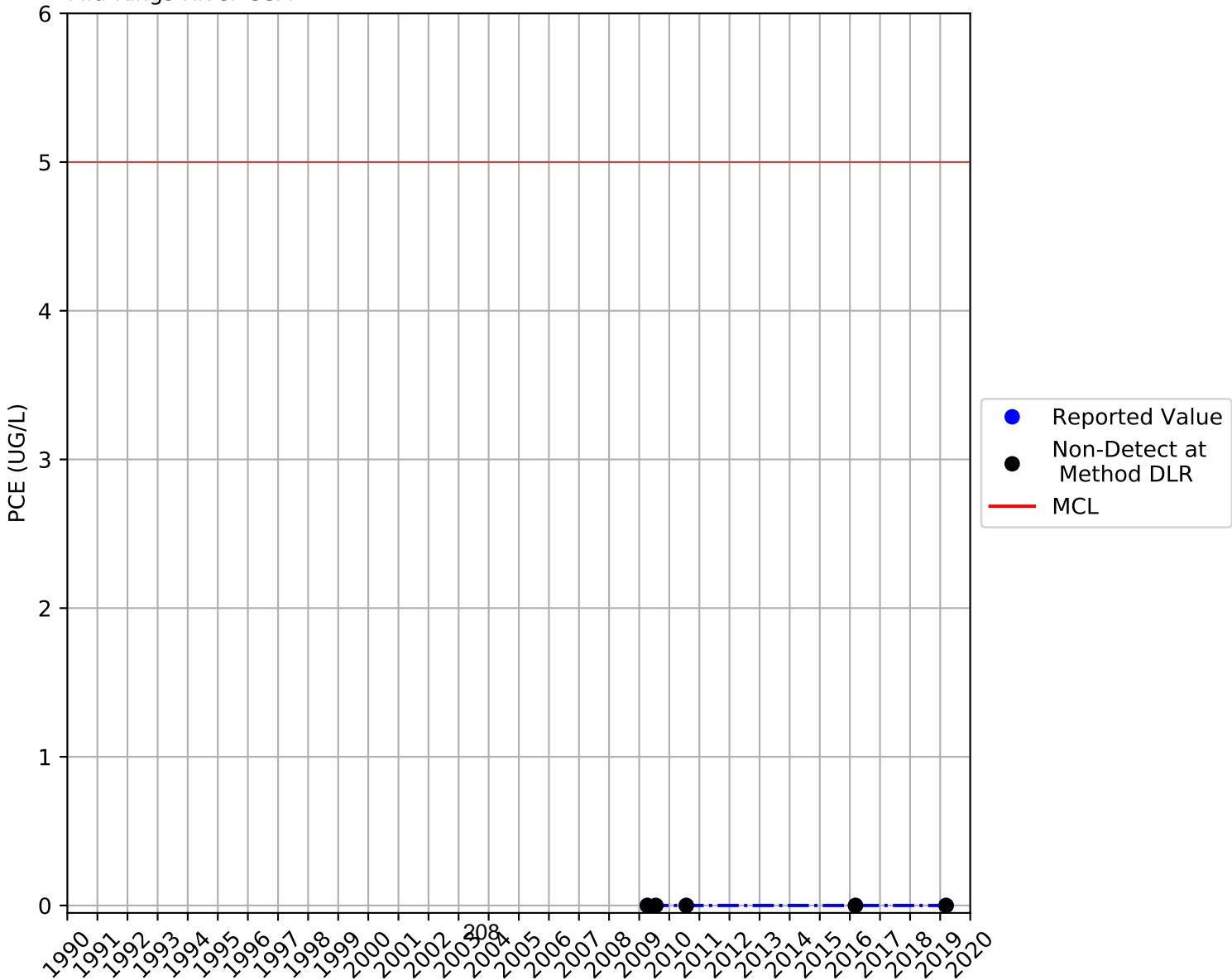
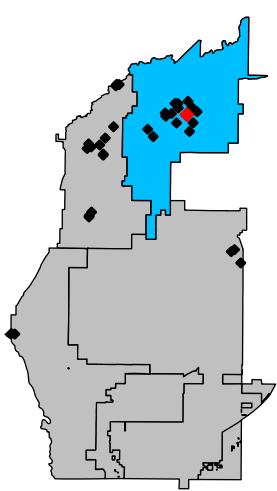
TETRACHLOROETHYLENE
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



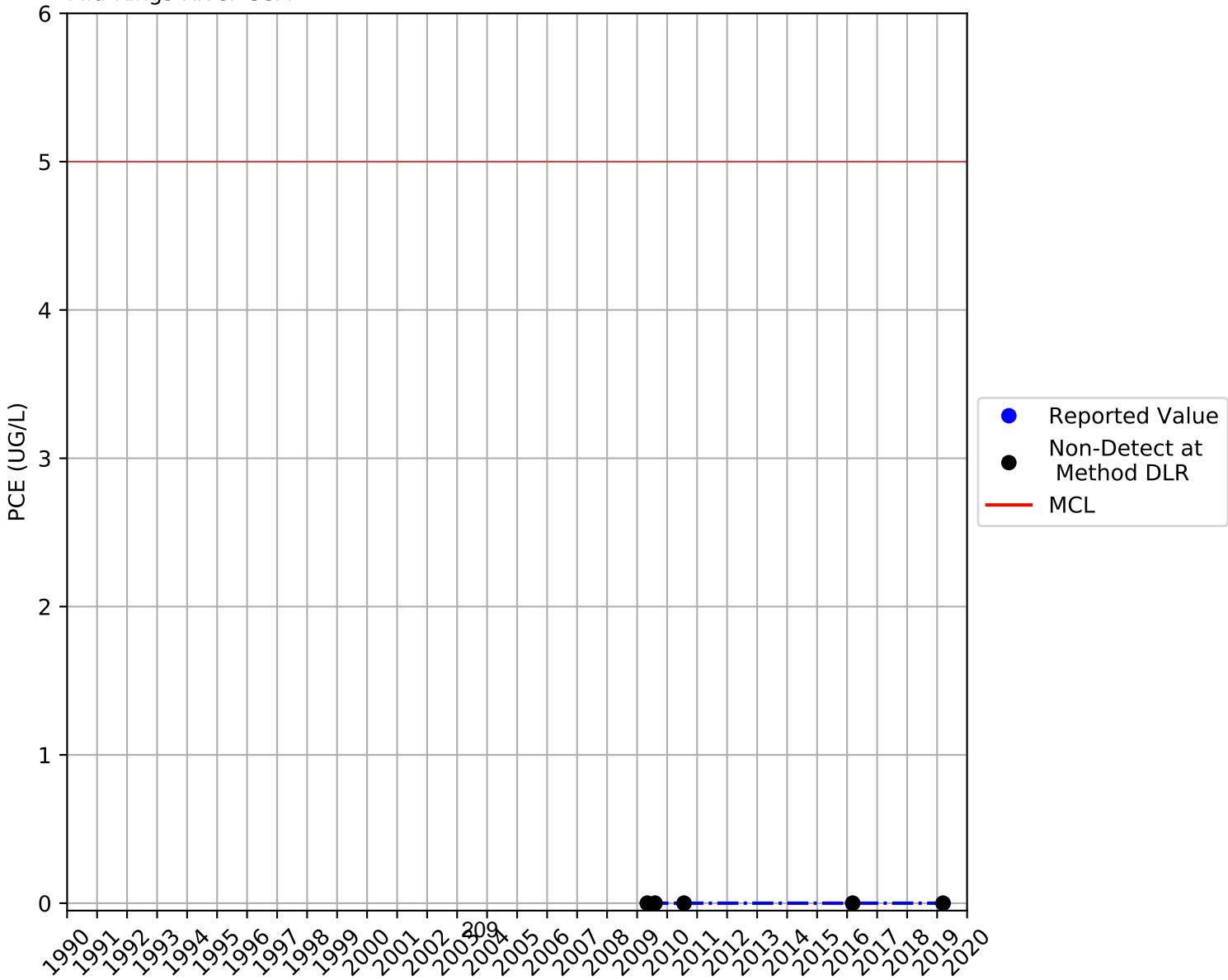
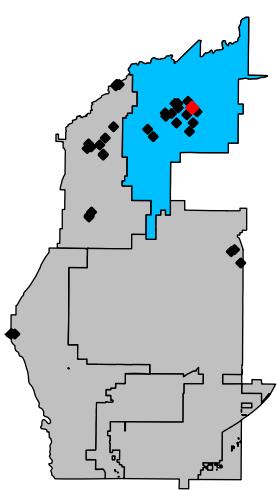
TETRACHLOROETHYLENE
1610003-039 WELL 45 - RAW
Mid-Kings River GSA



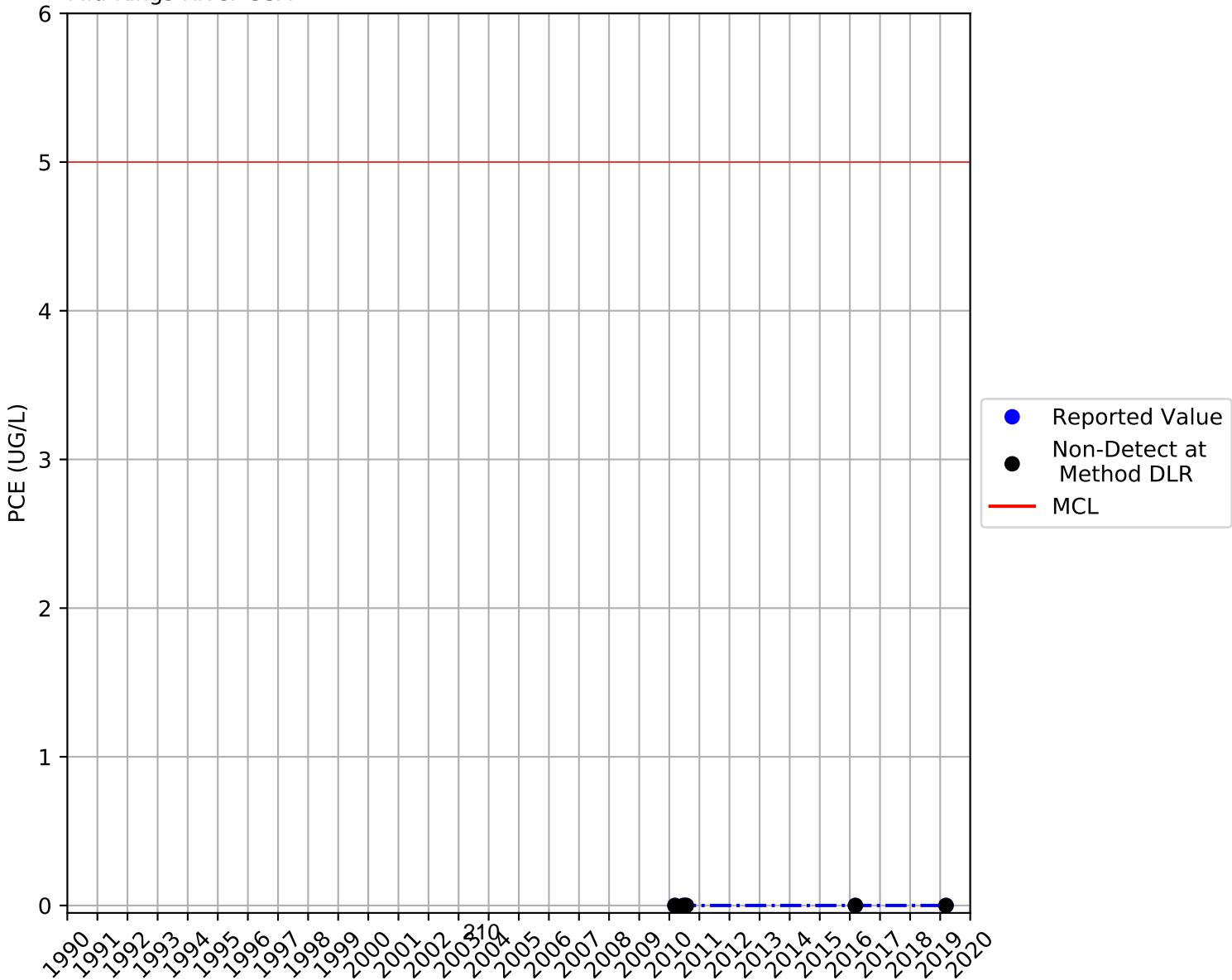
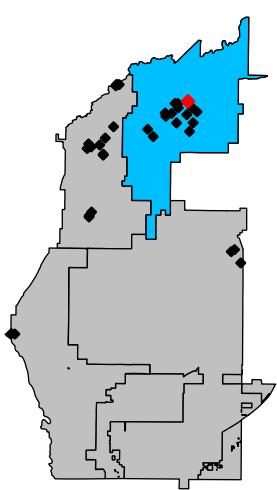
TETRACHLOROETHYLENE
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



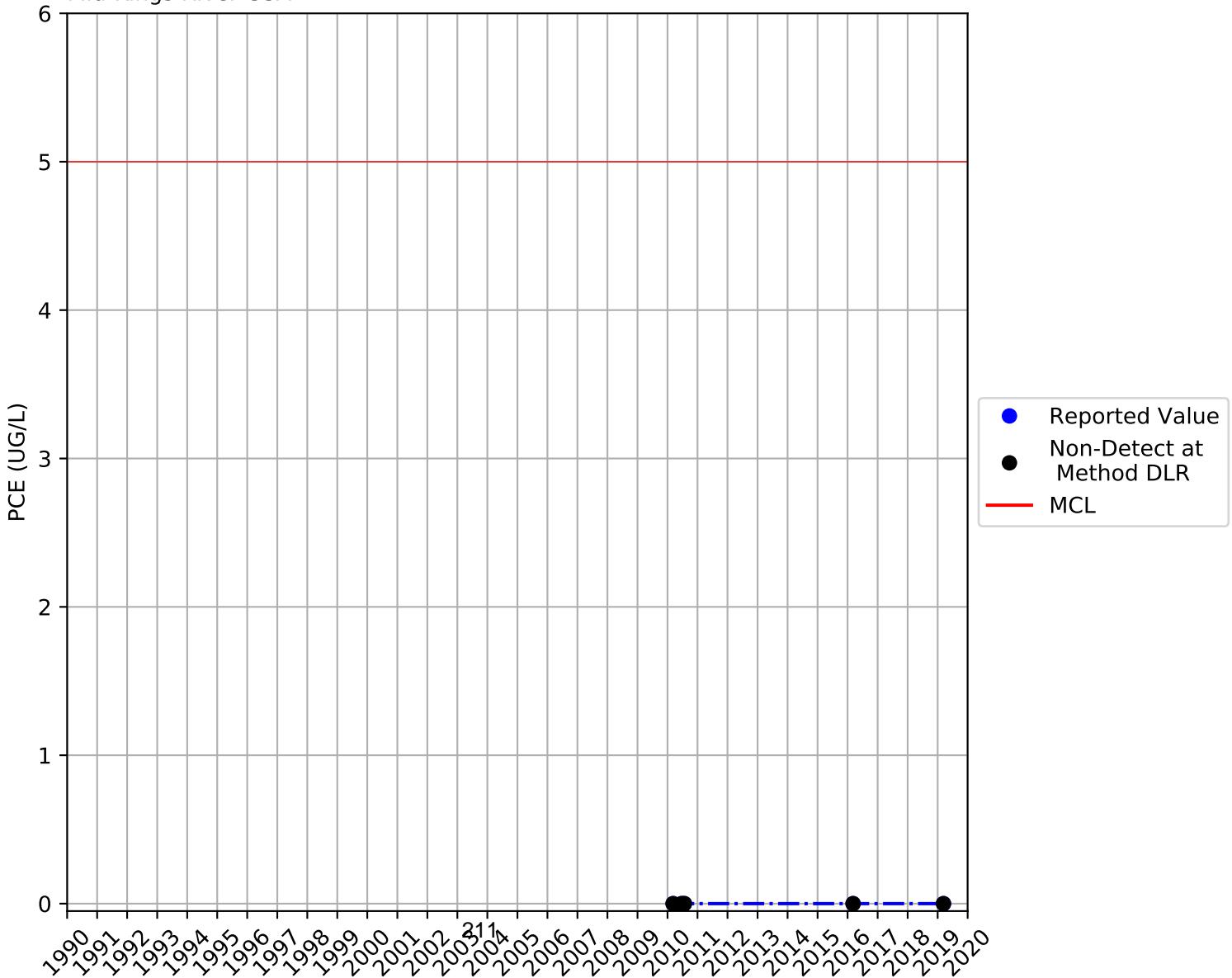
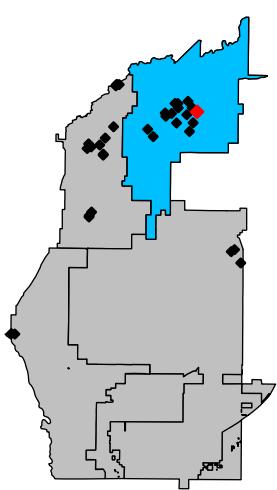
TETRACHLOROETHYLENE
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



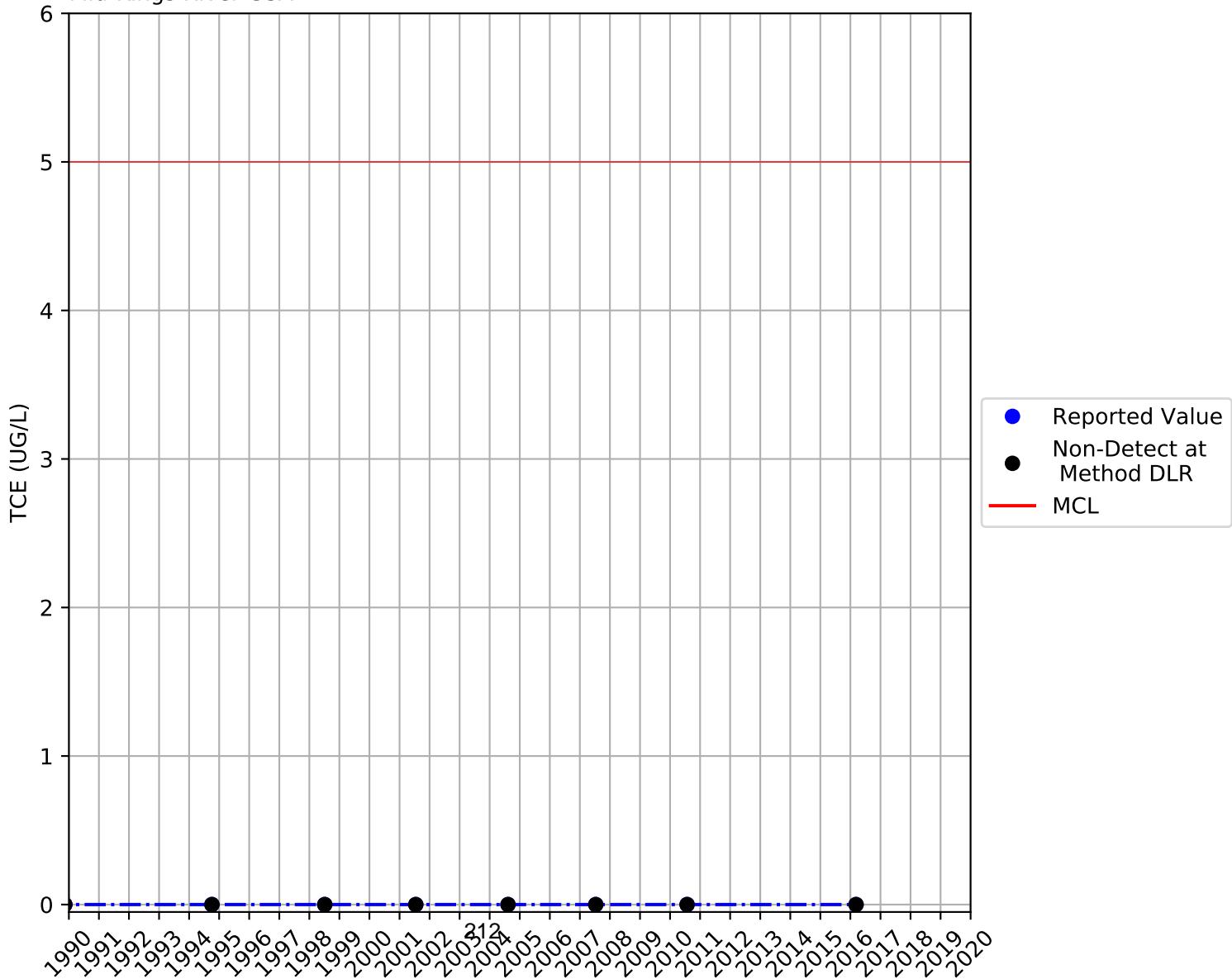
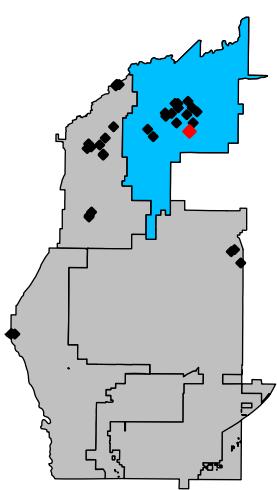
TETRACHLOROETHYLENE
1610003-042 WELL 48 - RAW
Mid-Kings River GSA



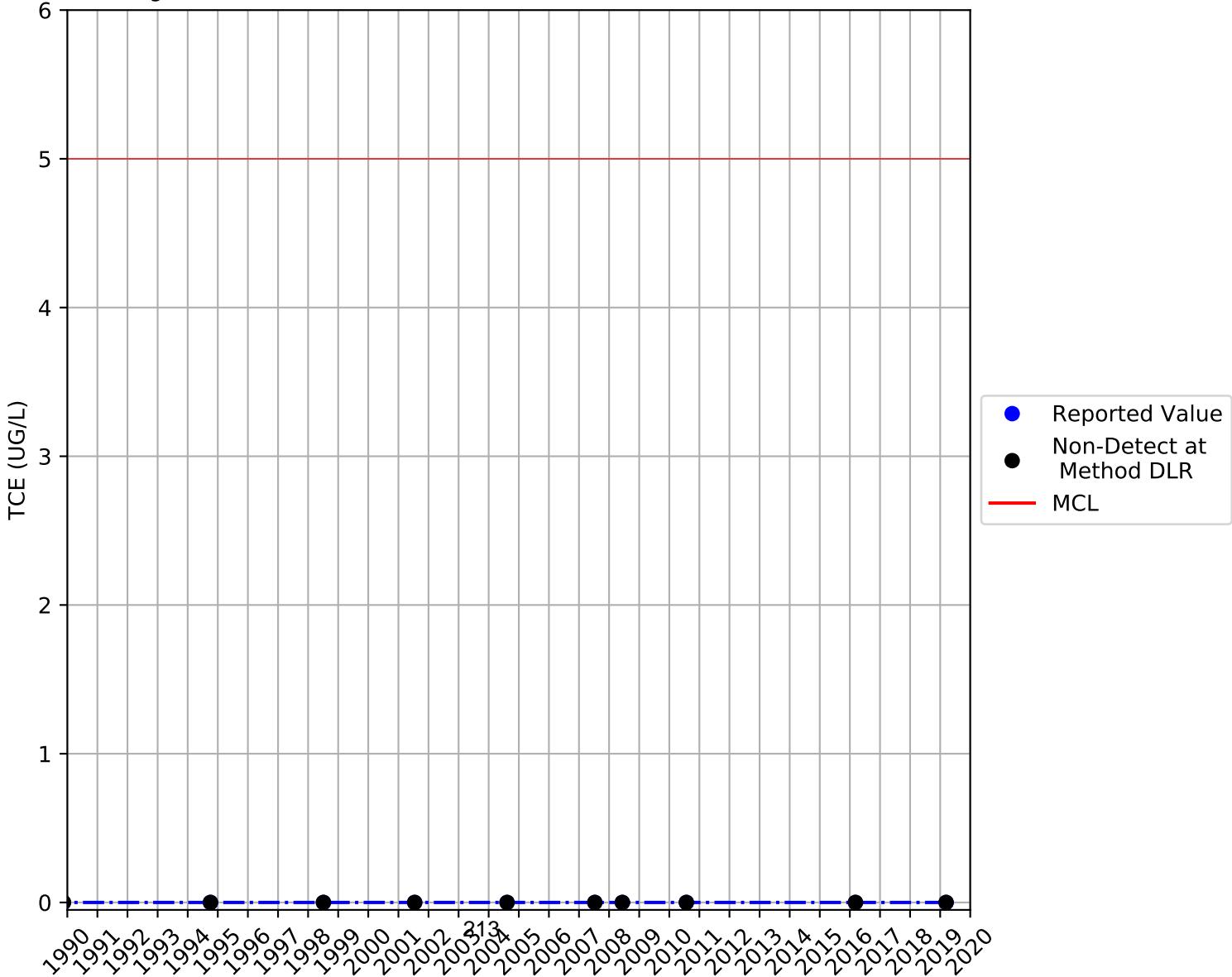
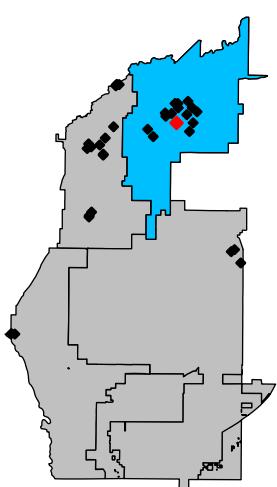
TETRACHLOROETHYLENE
1610003-043 WELL 49 - RAW
Mid-Kings River GSA



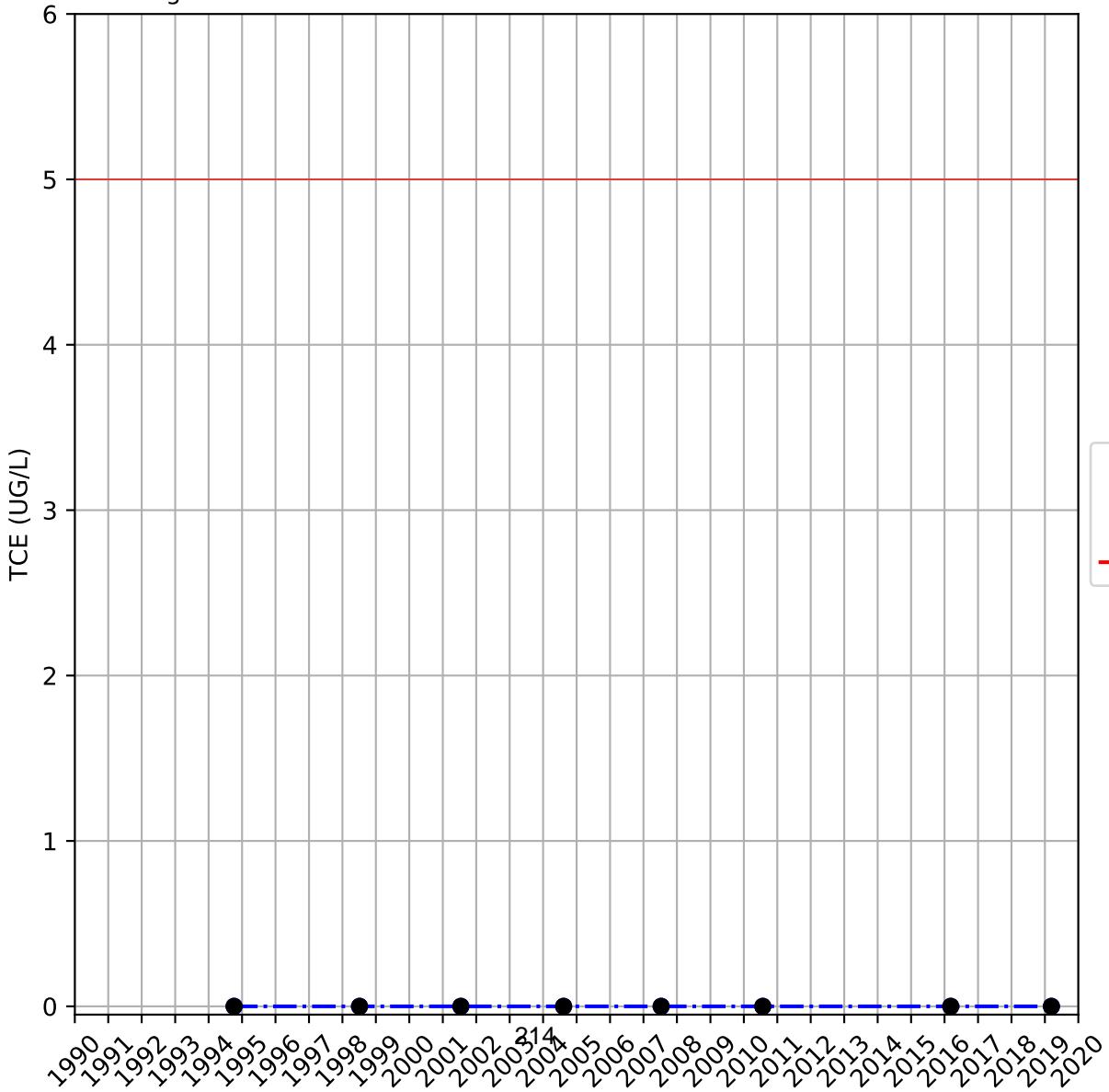
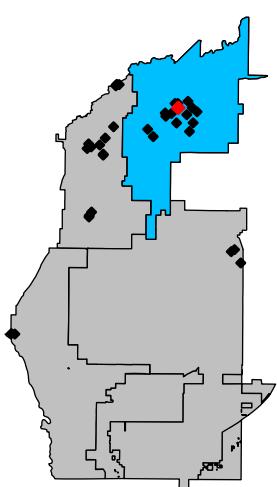
TRICHLOROETHYLENE
1610003-026 WELL 33 - RAW
Mid-Kings River GSA



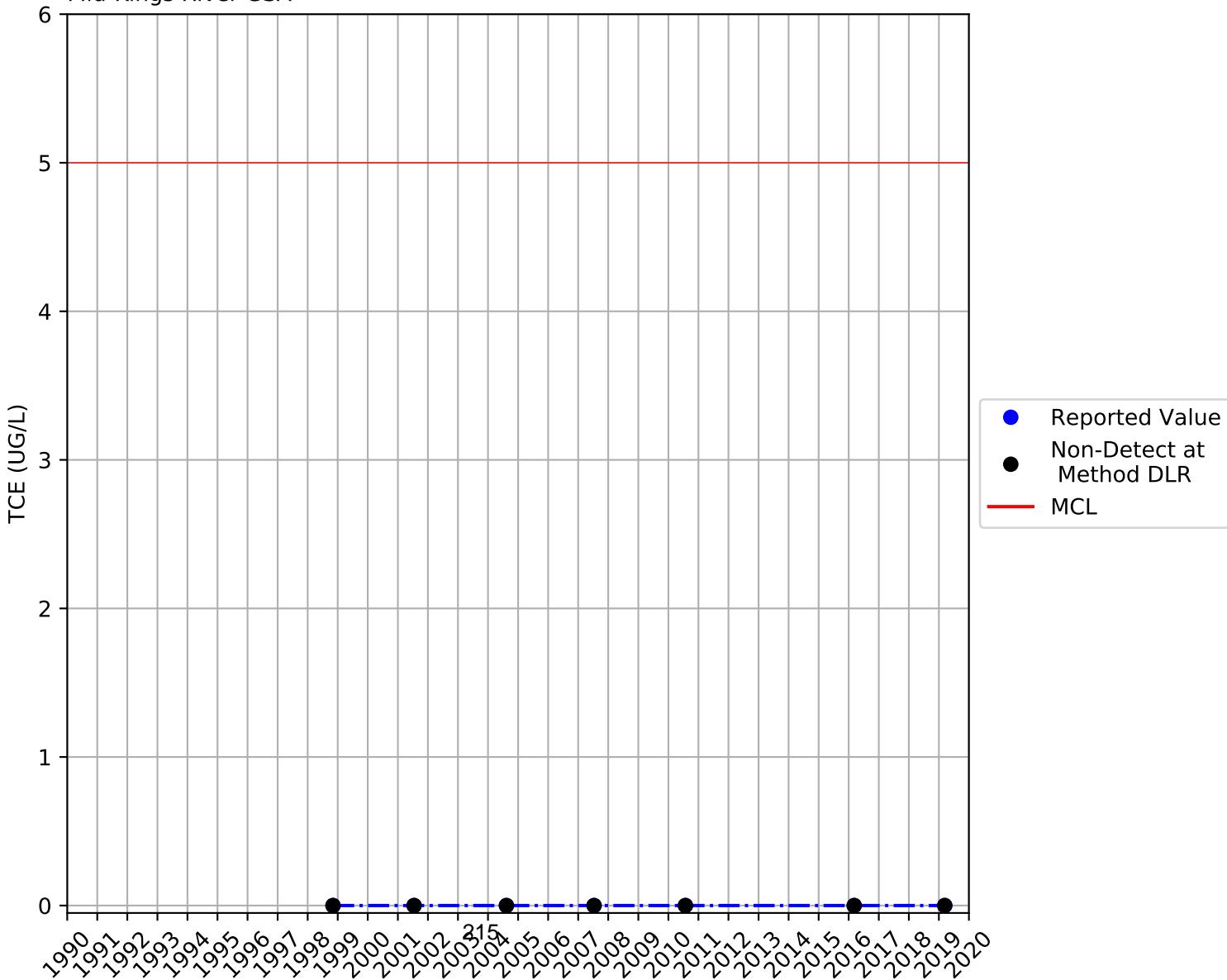
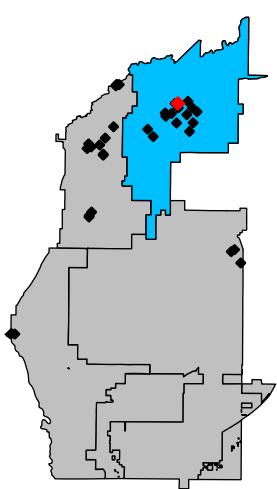
TRICHLOROETHYLENE
1610003-028 WELL 35 - RAW
Mid-Kings River GSA



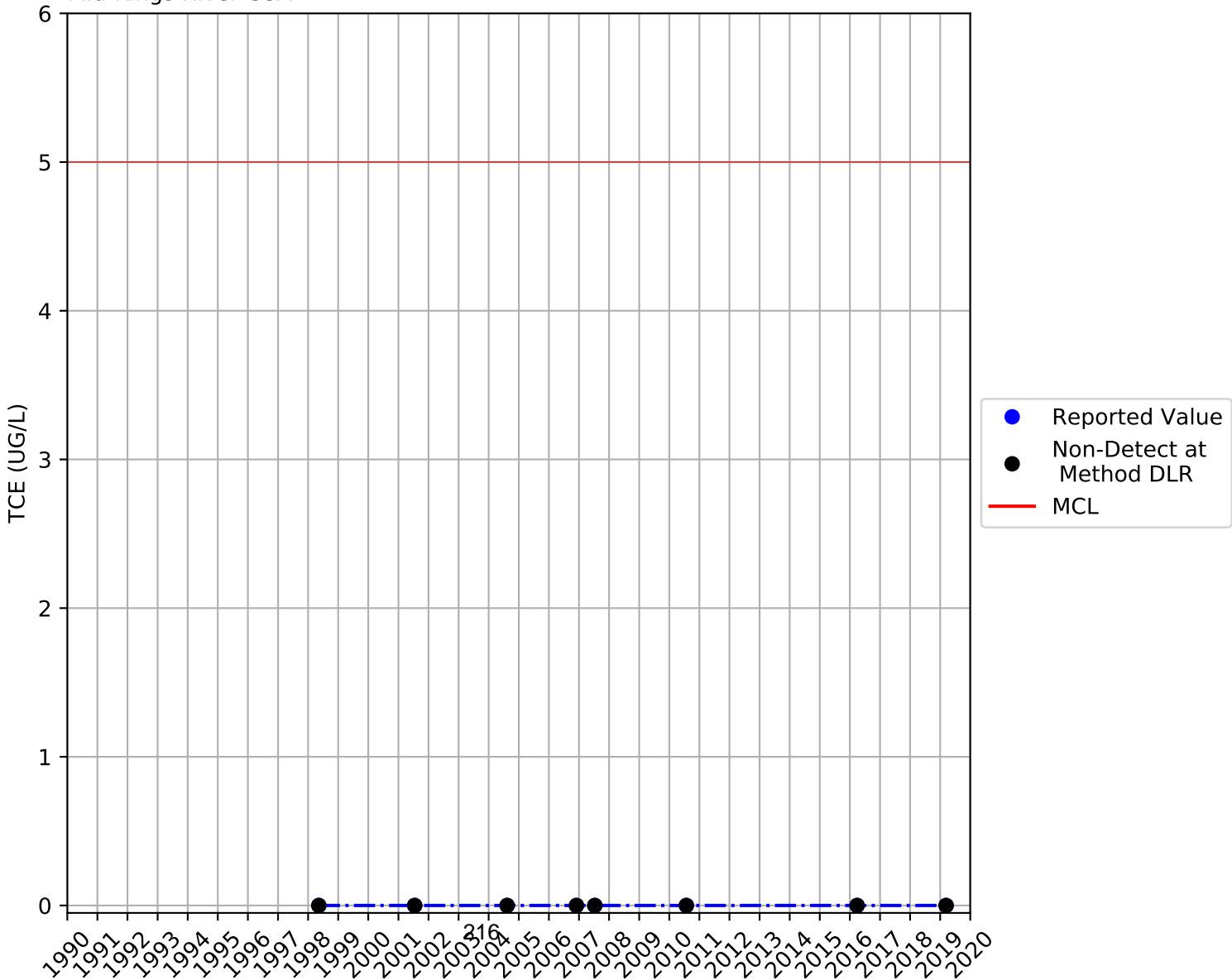
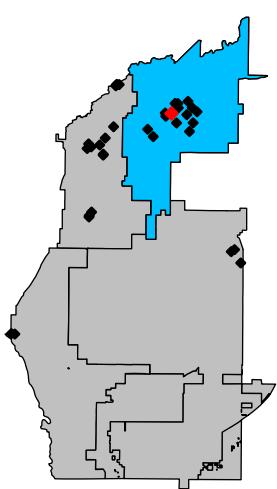
TRICHLOROETHYLENE
1610003-031 WELL 38
Mid-Kings River GSA



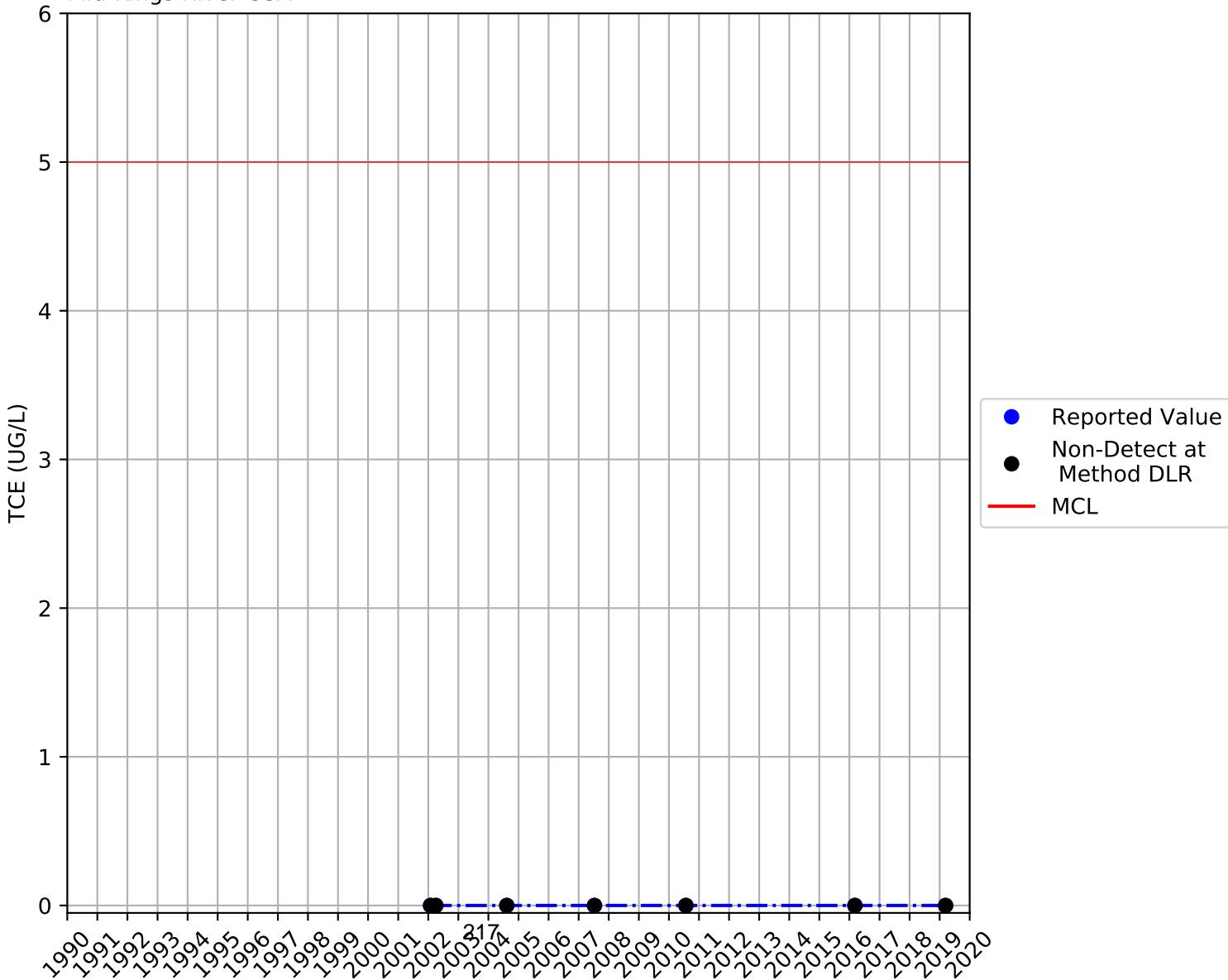
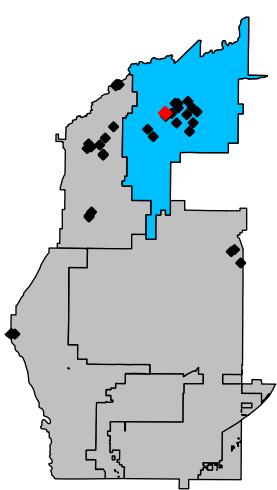
TRICHLOROETHYLENE
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



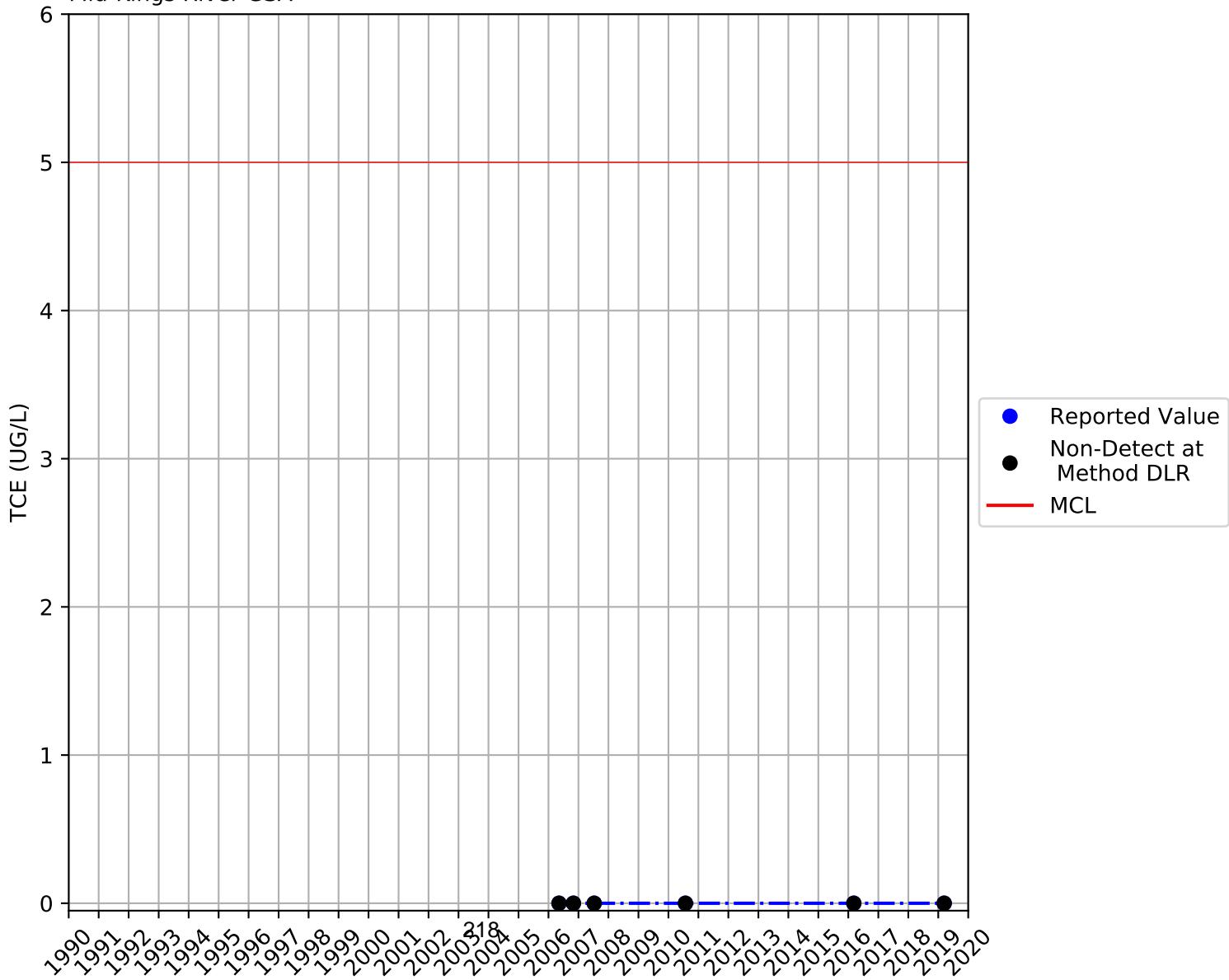
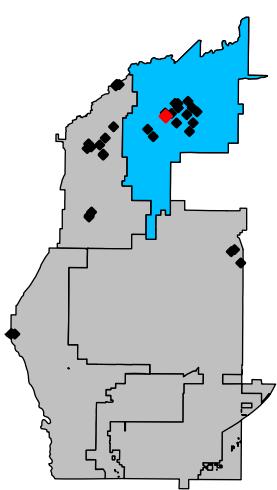
TRICHLOROETHYLENE
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



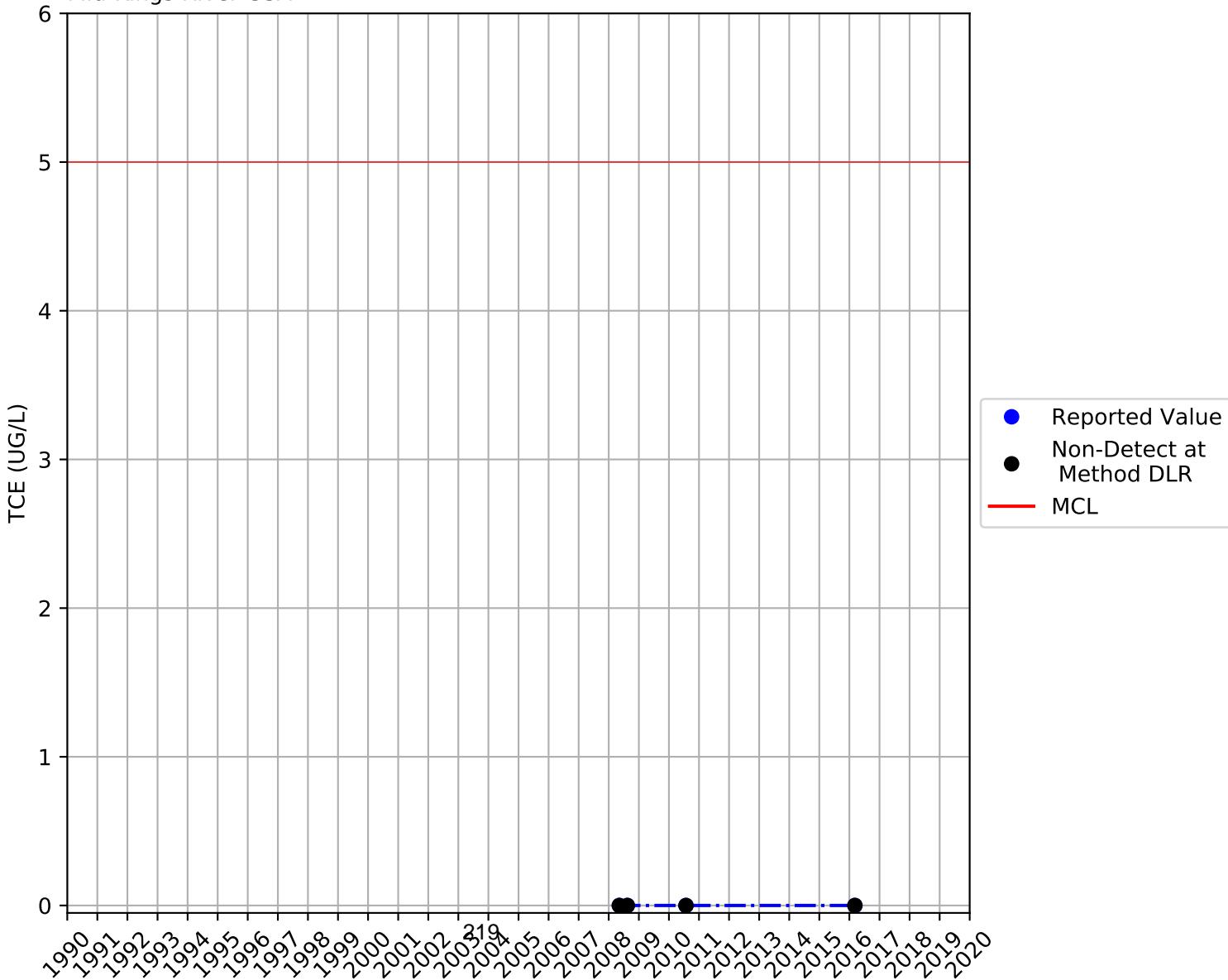
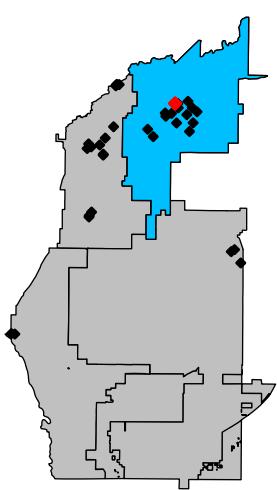
TRICHLOROETHYLENE
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



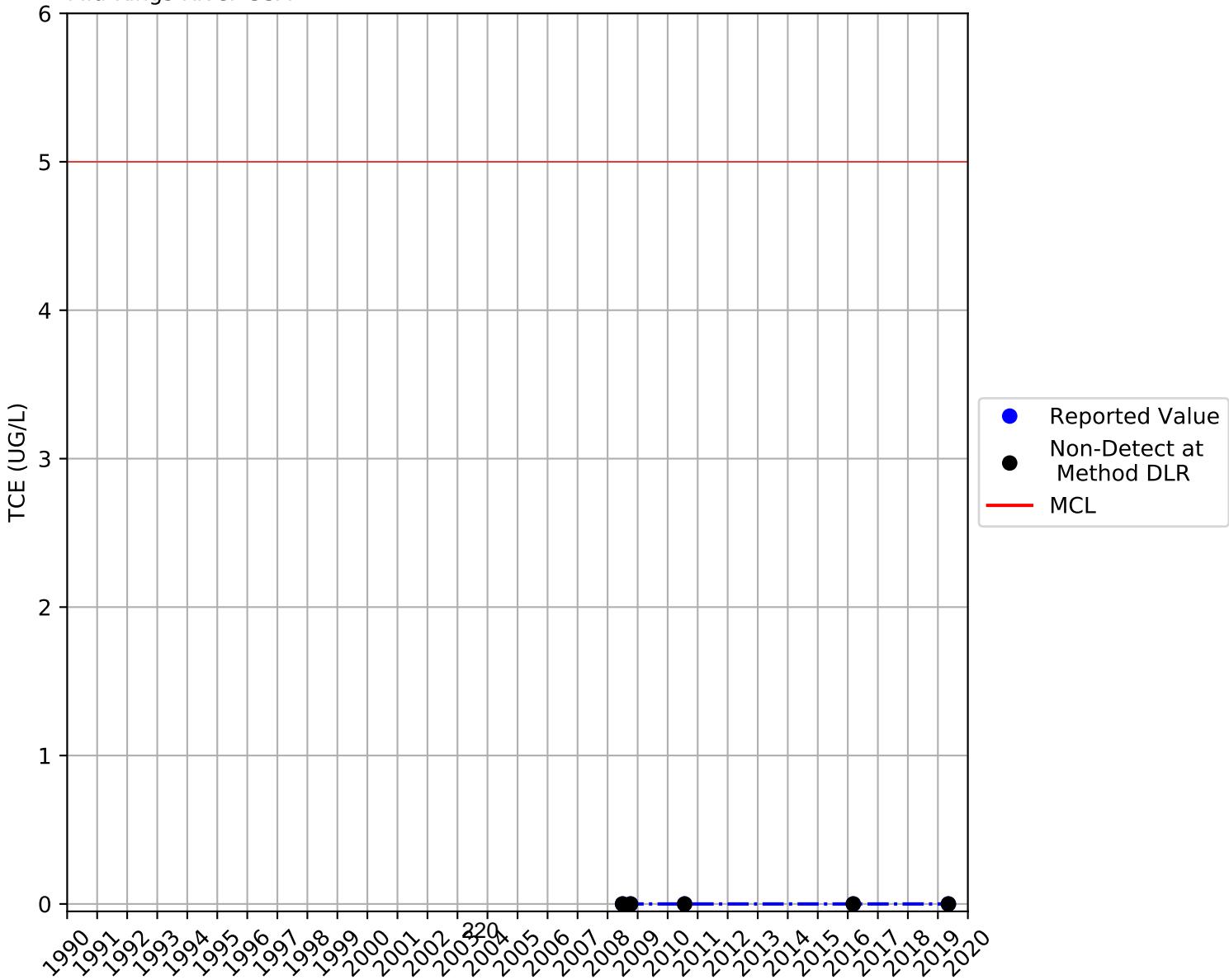
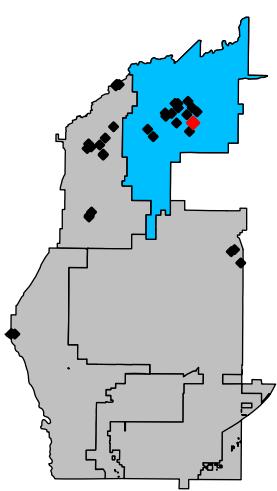
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1610003-037 WELL 43 - RAW
Mid-Kings River GSA



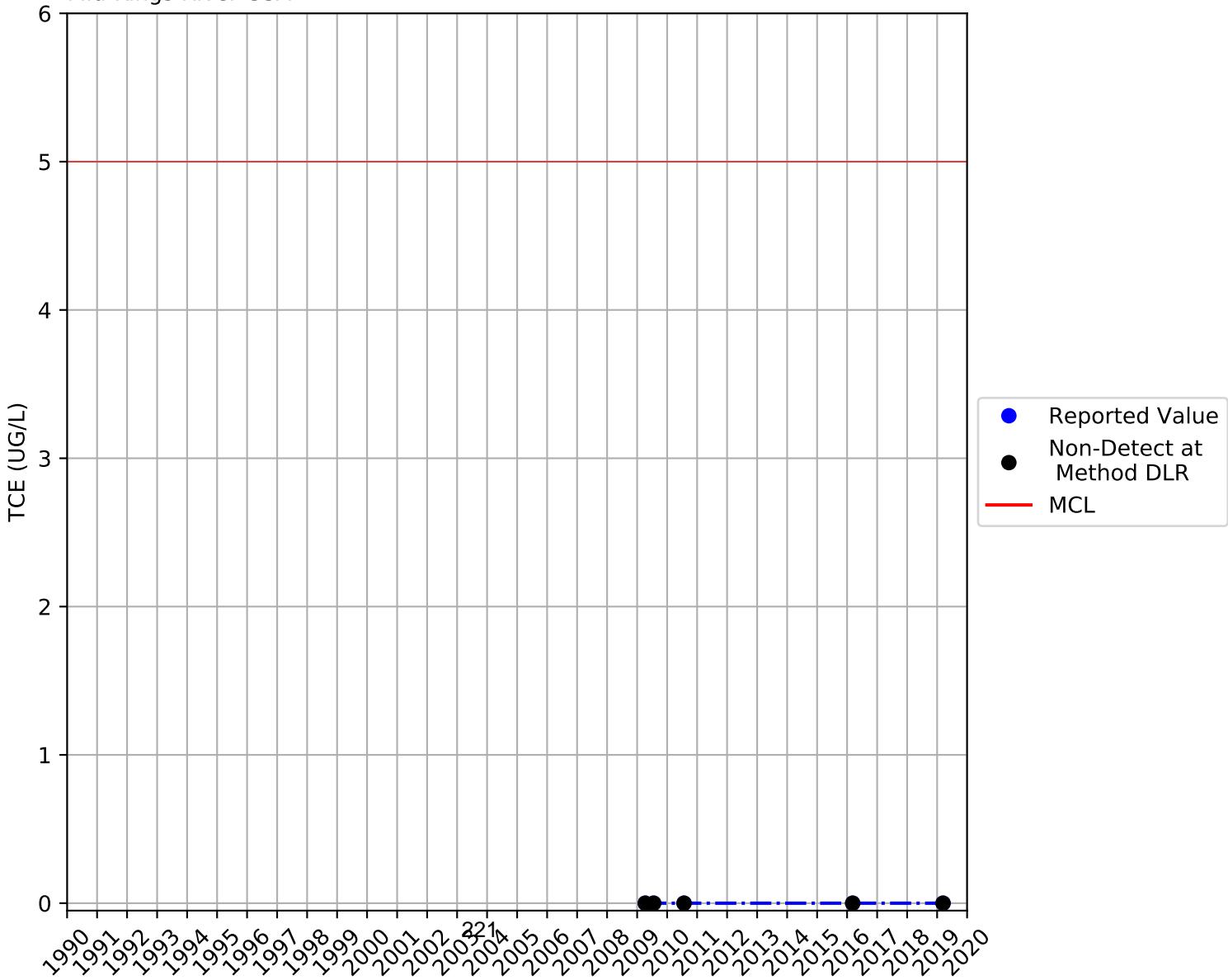
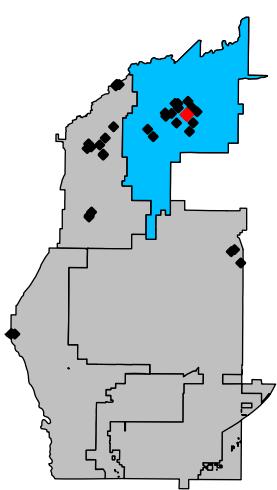
TRICHLOROETHYLENE
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



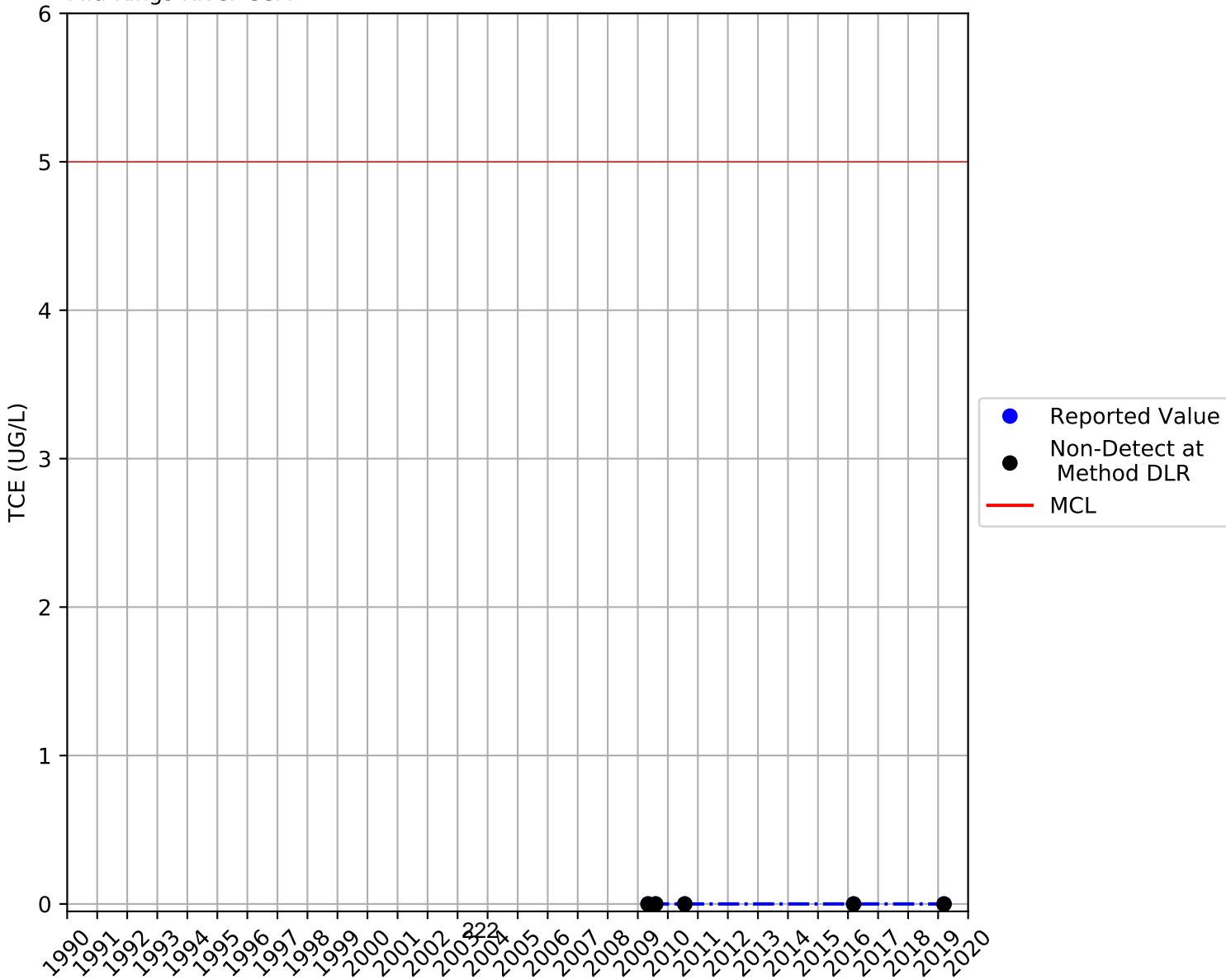
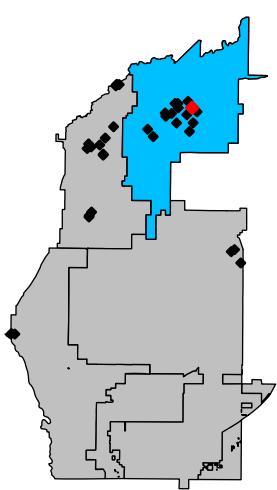
TRICHLOROETHYLENE
1610003-039 WELL 45 - RAW
Mid-Kings River GSA



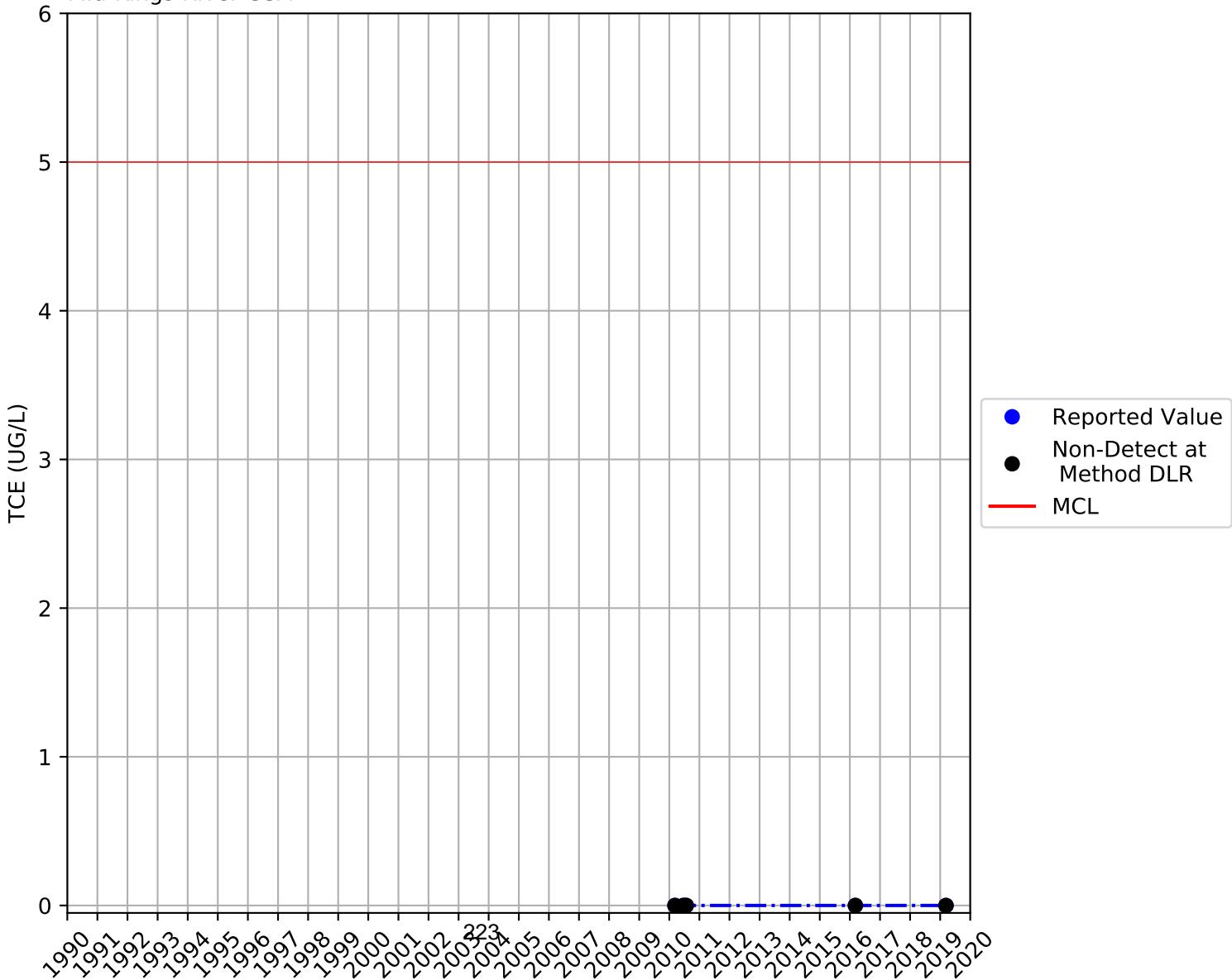
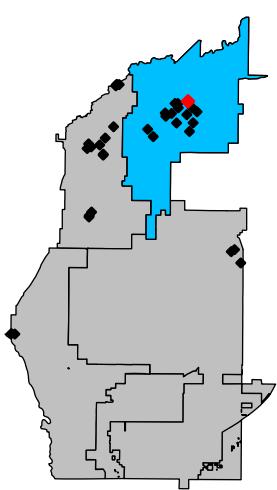
TRICHLOROETHYLENE
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



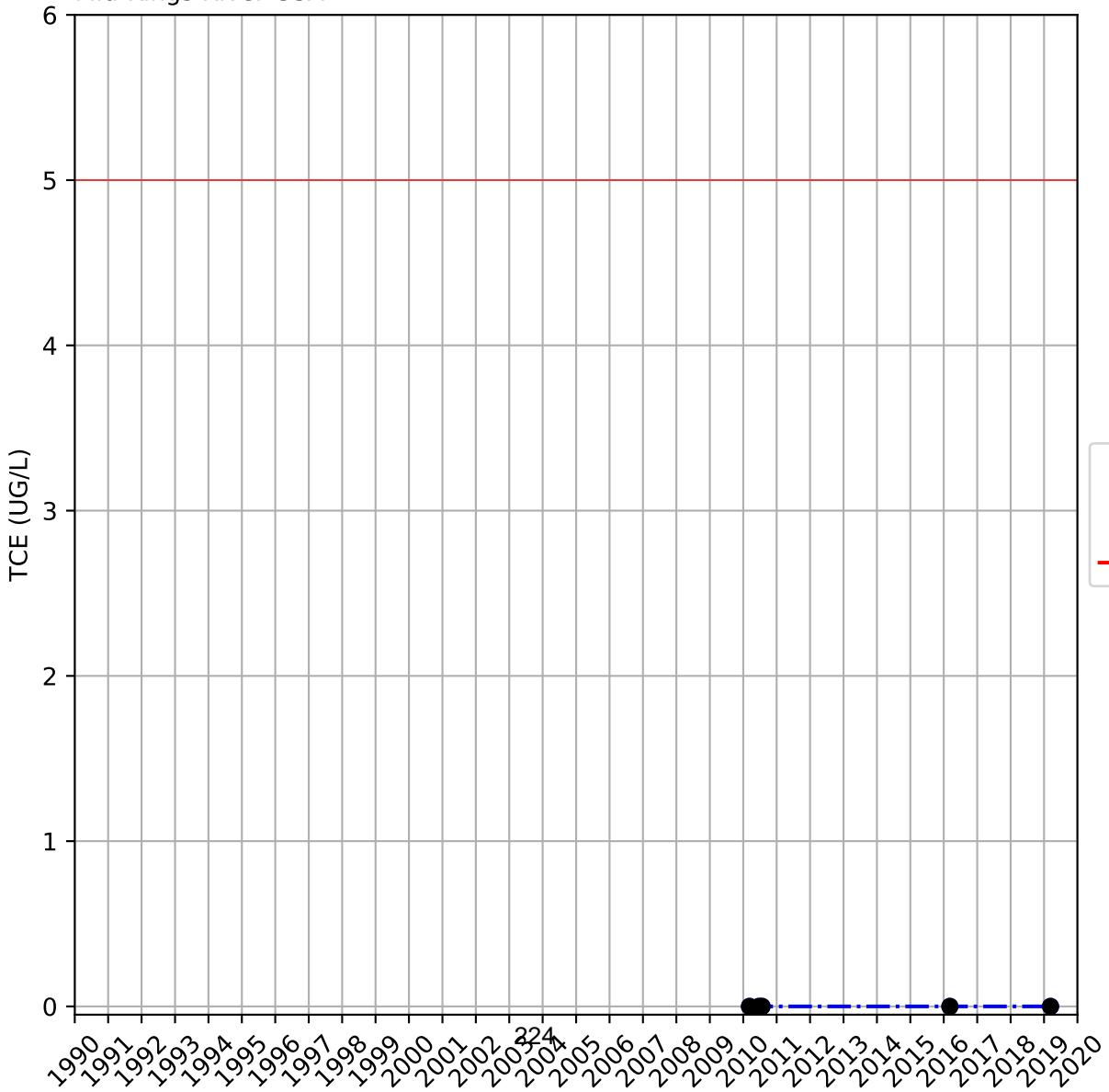
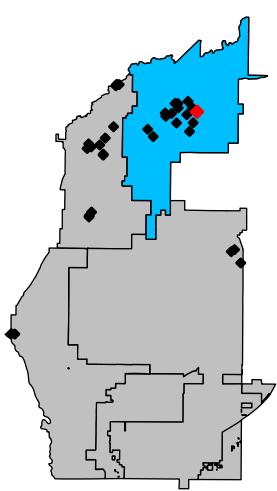
TRICHLOROETHYLENE
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



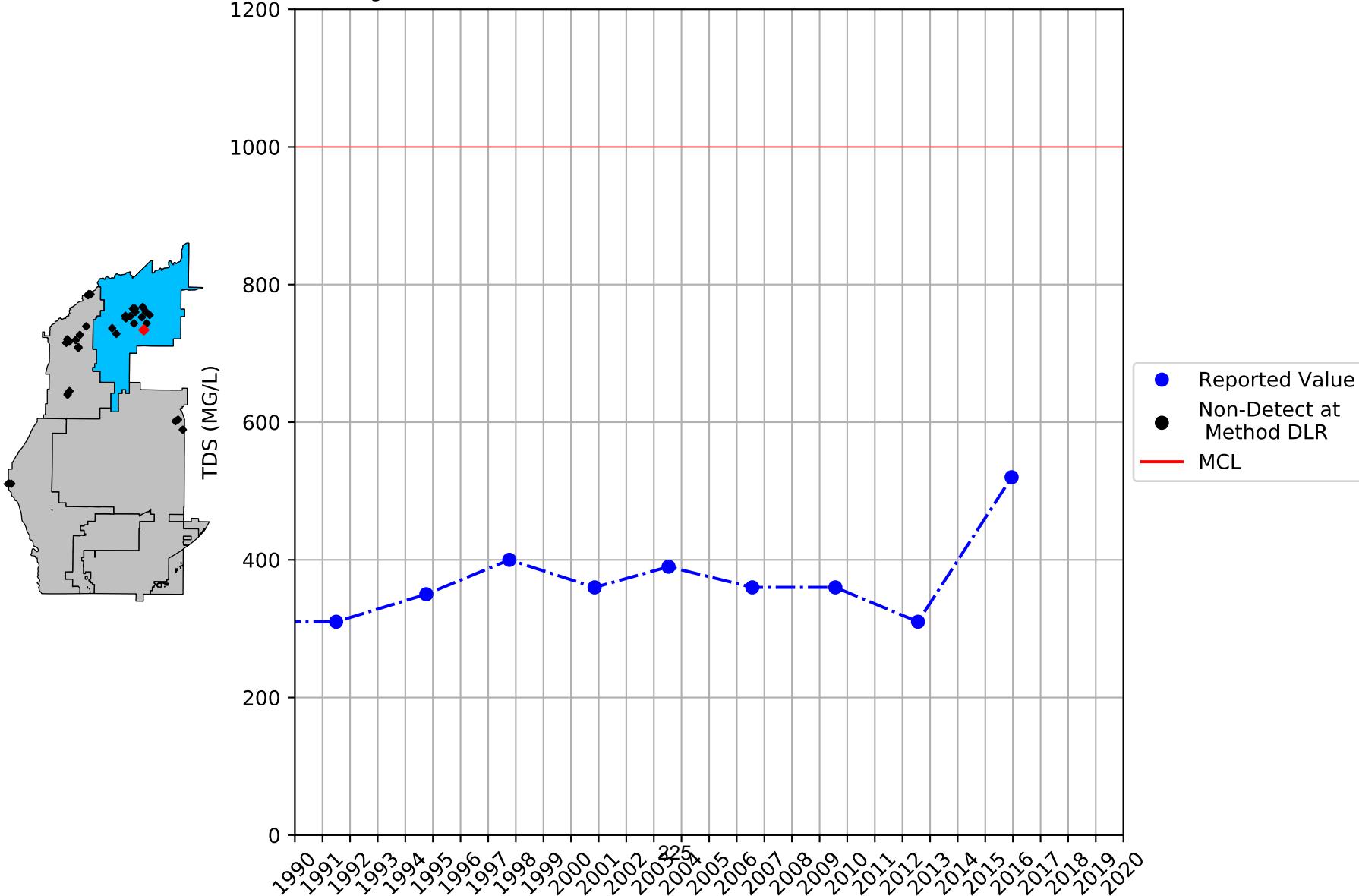
TRICHLOROETHYLENE
1610003-042 WELL 48 - RAW
Mid-Kings River GSA



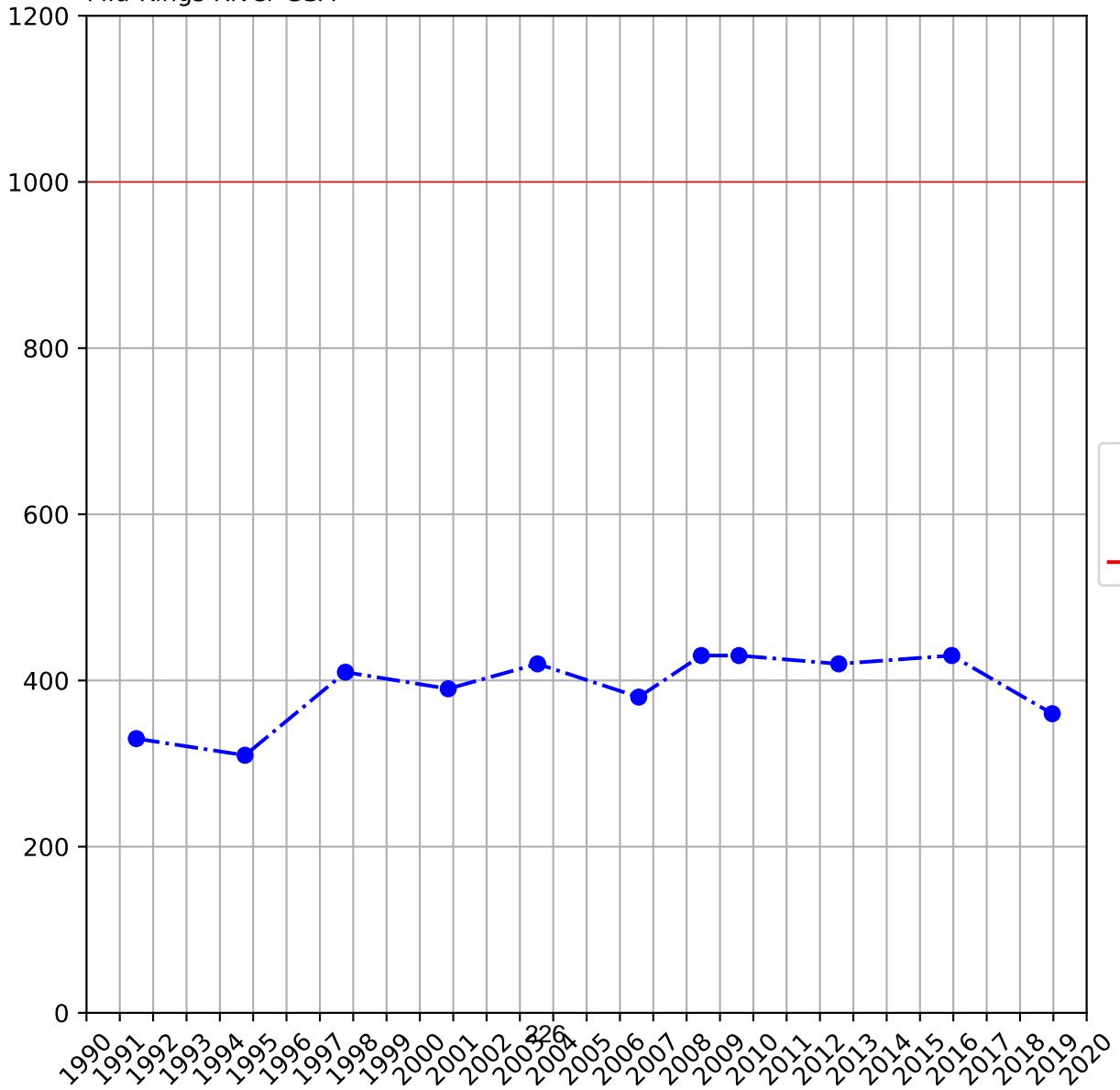
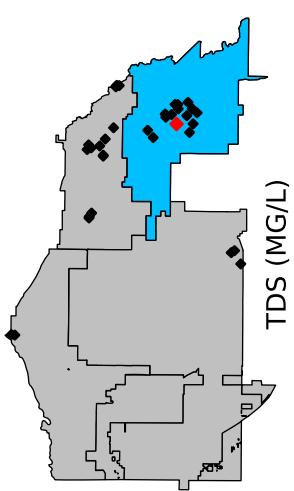
TRICHLOROETHYLENE
1610003-043 WELL 49 - RAW
Mid-Kings River GSA



TOTAL DISSOLVED SOLIDS
1610003-026 WELL 33 - RAW
Mid-Kings River GSA

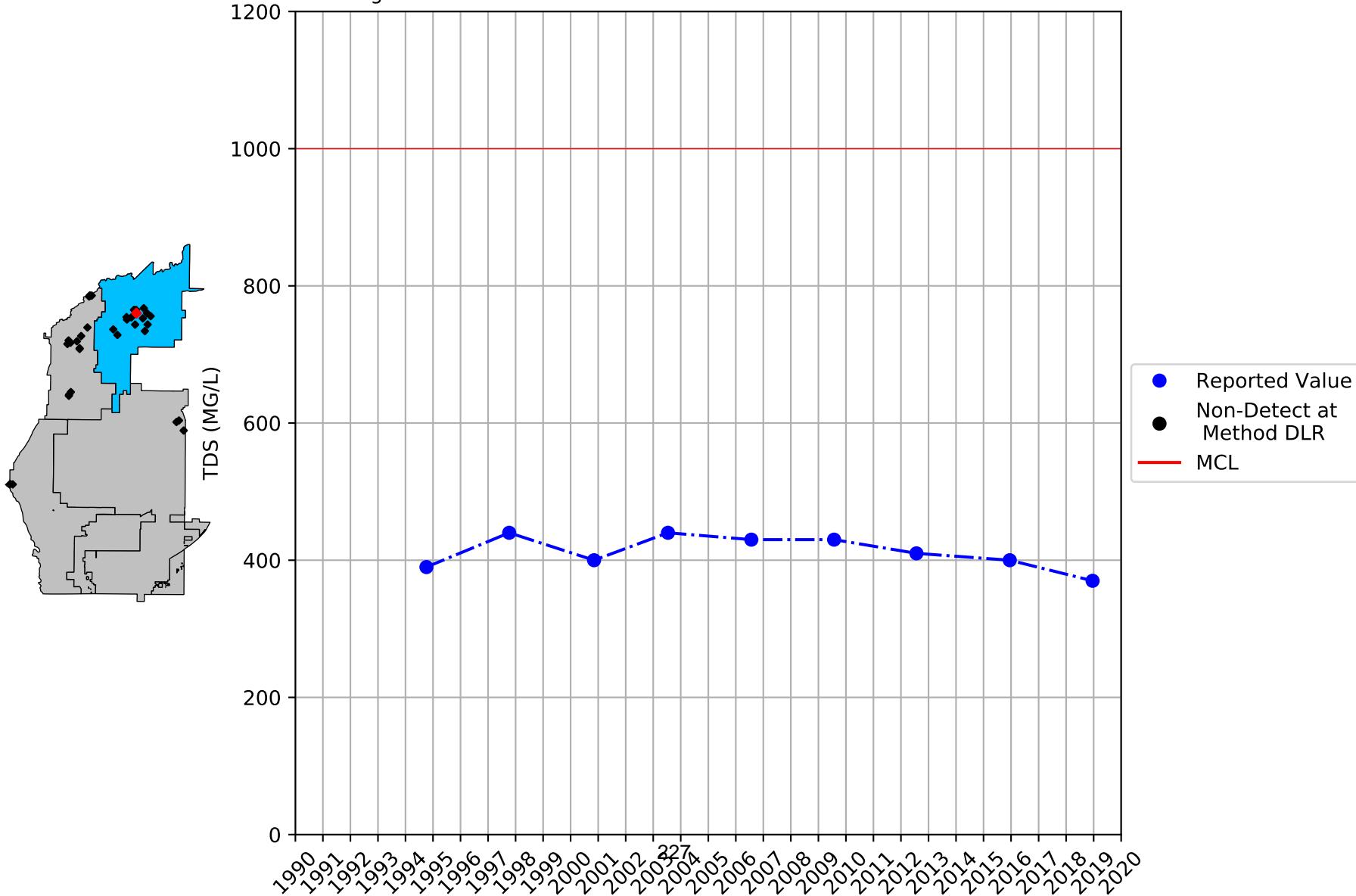


TOTAL DISSOLVED SOLIDS
1610003-028 WELL 35 - RAW
Mid-Kings River GSA

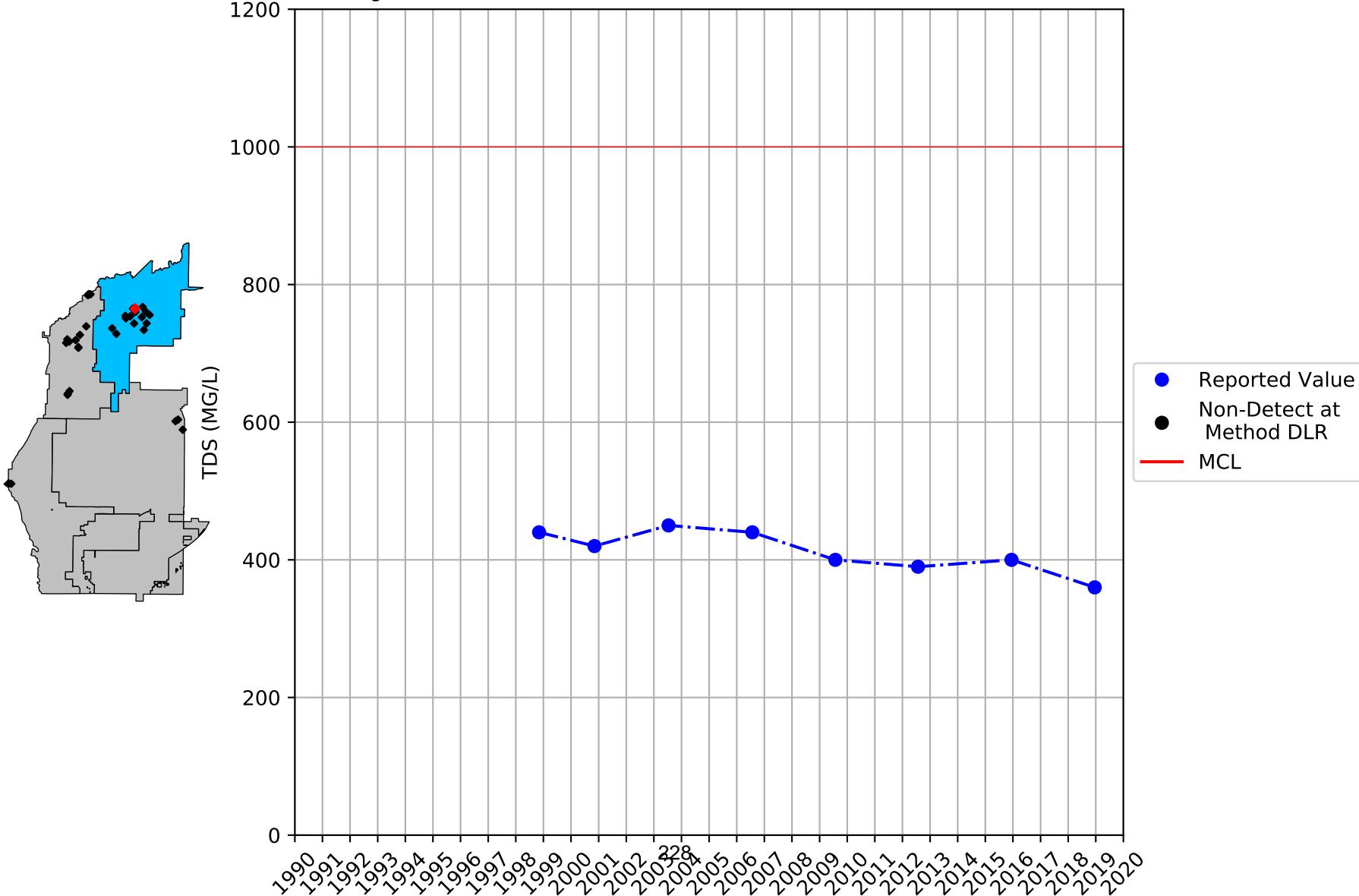


Reported Value
Non-Detect at
Method DLR
MCL

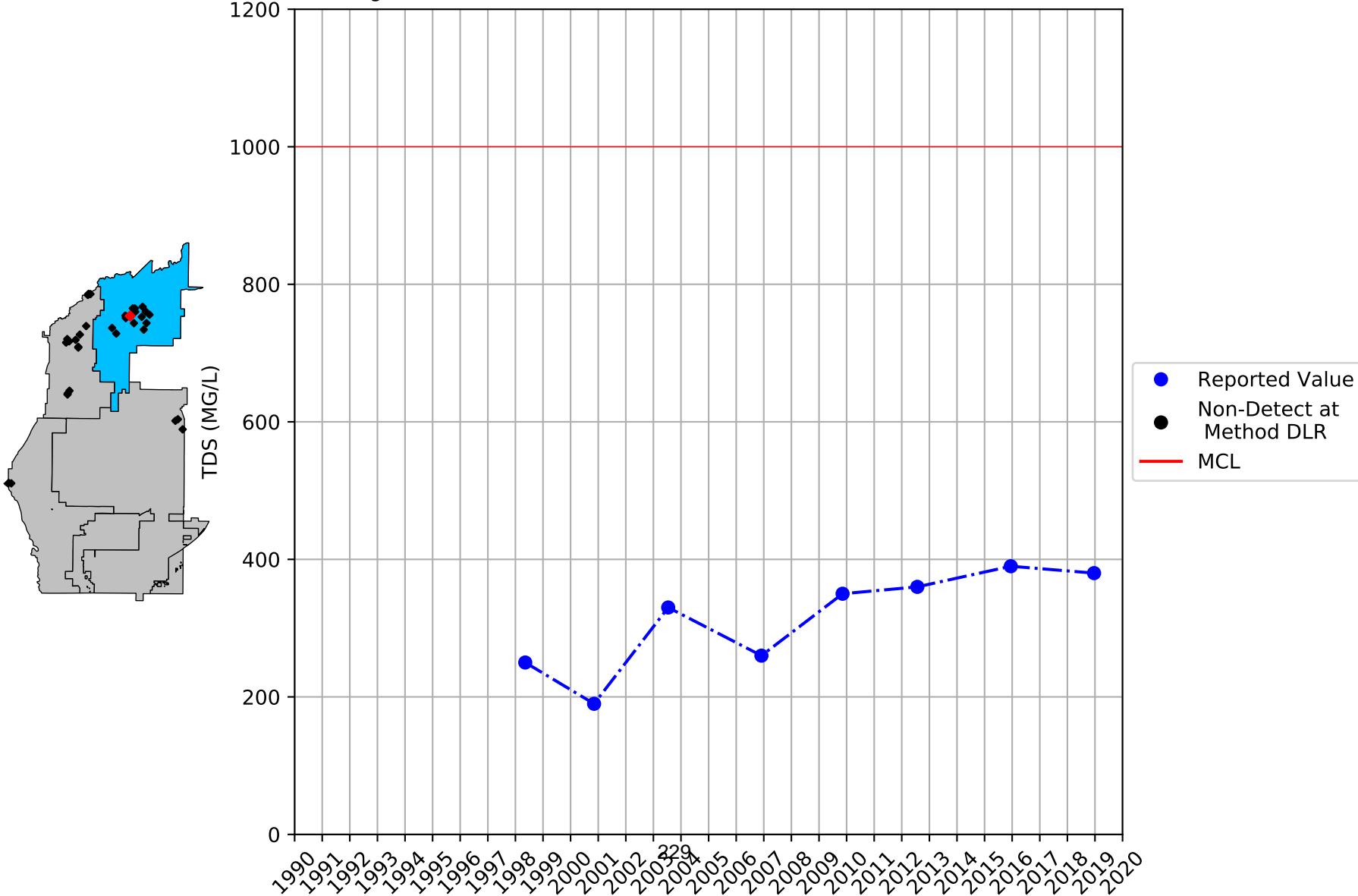
TOTAL DISSOLVED SOLIDS
1610003-031 WELL 38
Mid-Kings River GSA



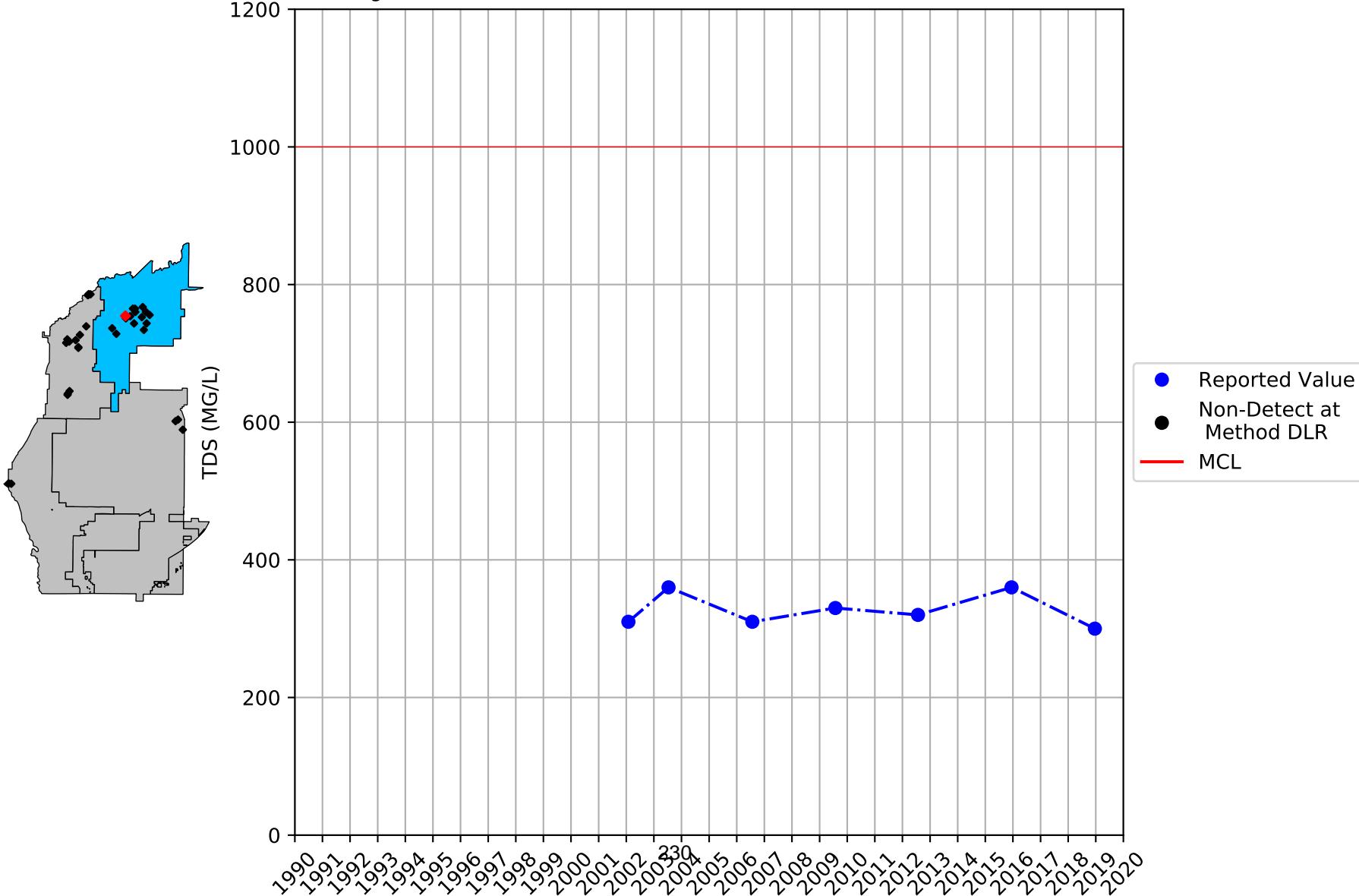
TOTAL DISSOLVED SOLIDS
1610003-033 WELL 41 - RAW
Mid-Kings River GSA



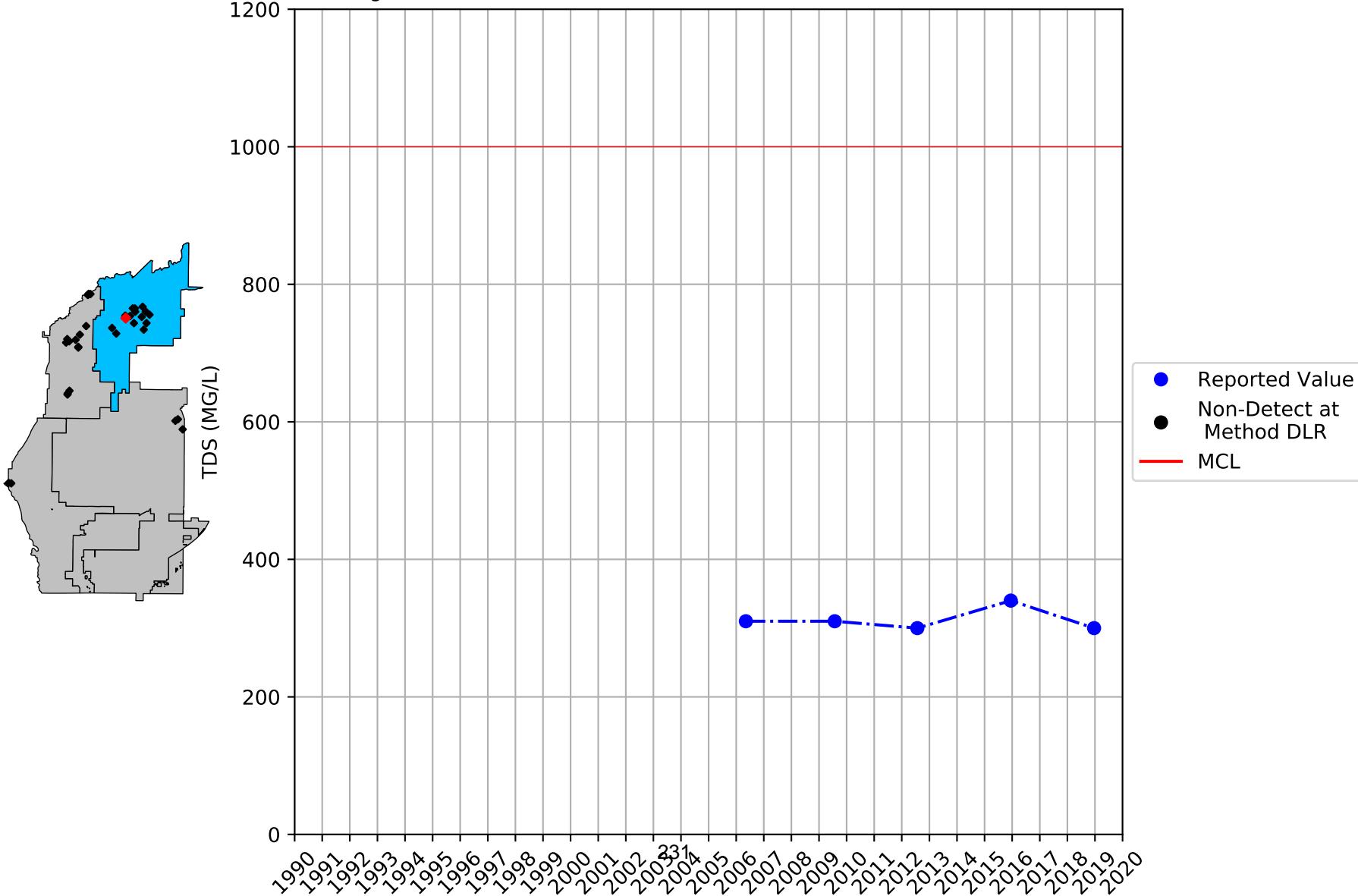
TOTAL DISSOLVED SOLIDS
1610003-034 WELL 40 - RAW
Mid-Kings River GSA



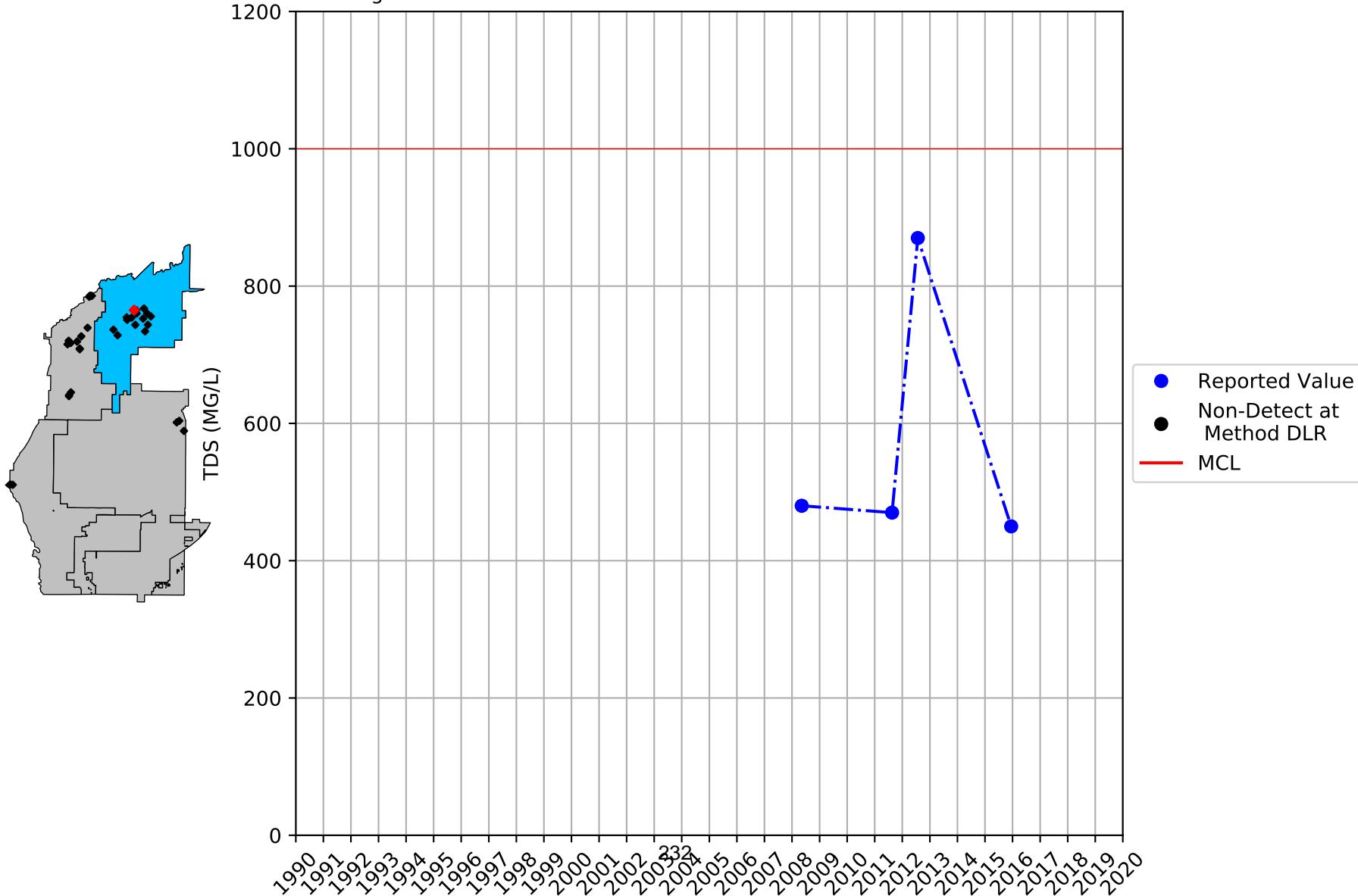
TOTAL DISSOLVED SOLIDS
1610003-036 WELL 42 - RAW
Mid-Kings River GSA



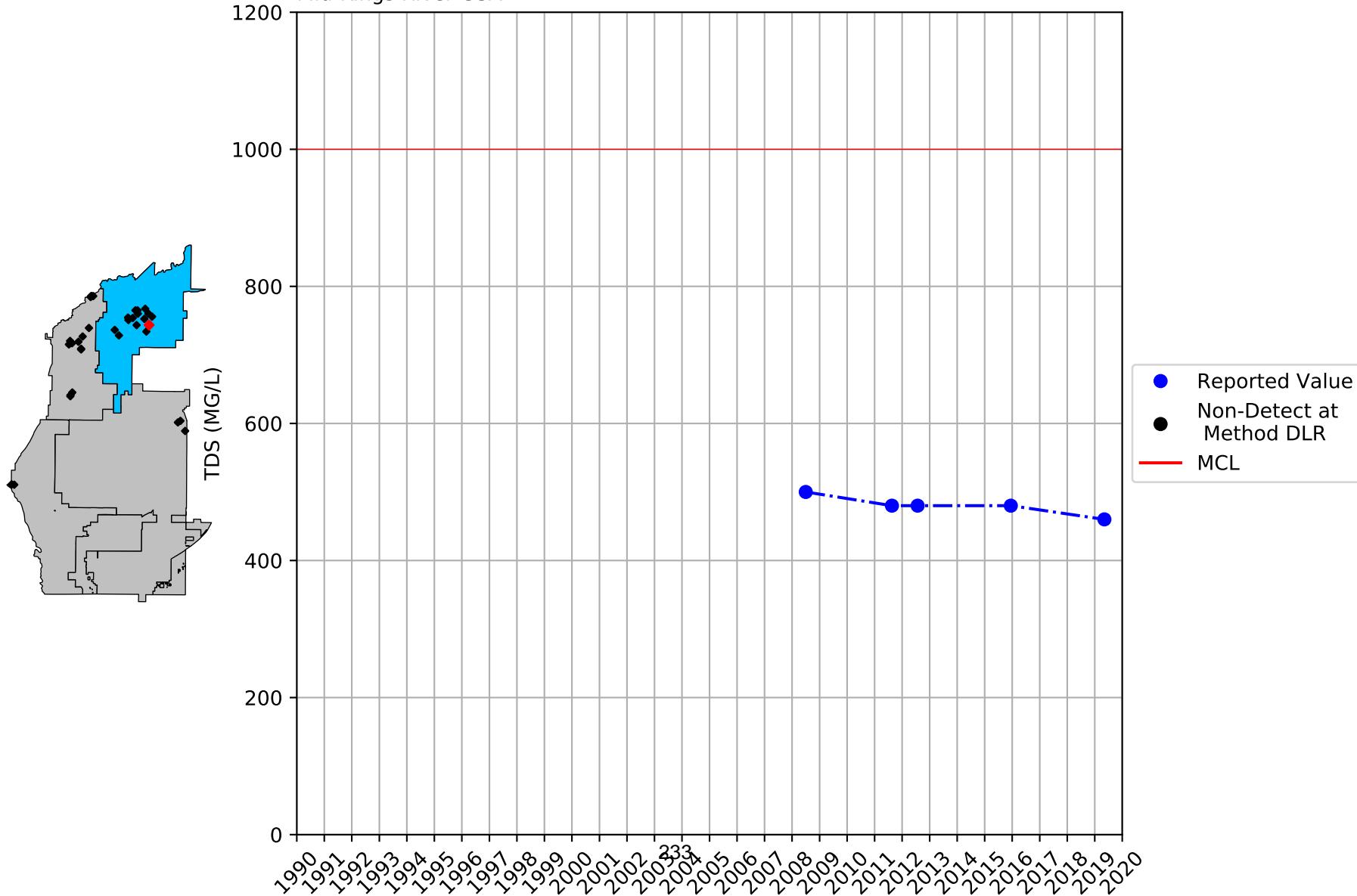
TOTAL DISSOLVED SOLIDS
1610003-037 WELL 43 - RAW
Mid-Kings River GSA



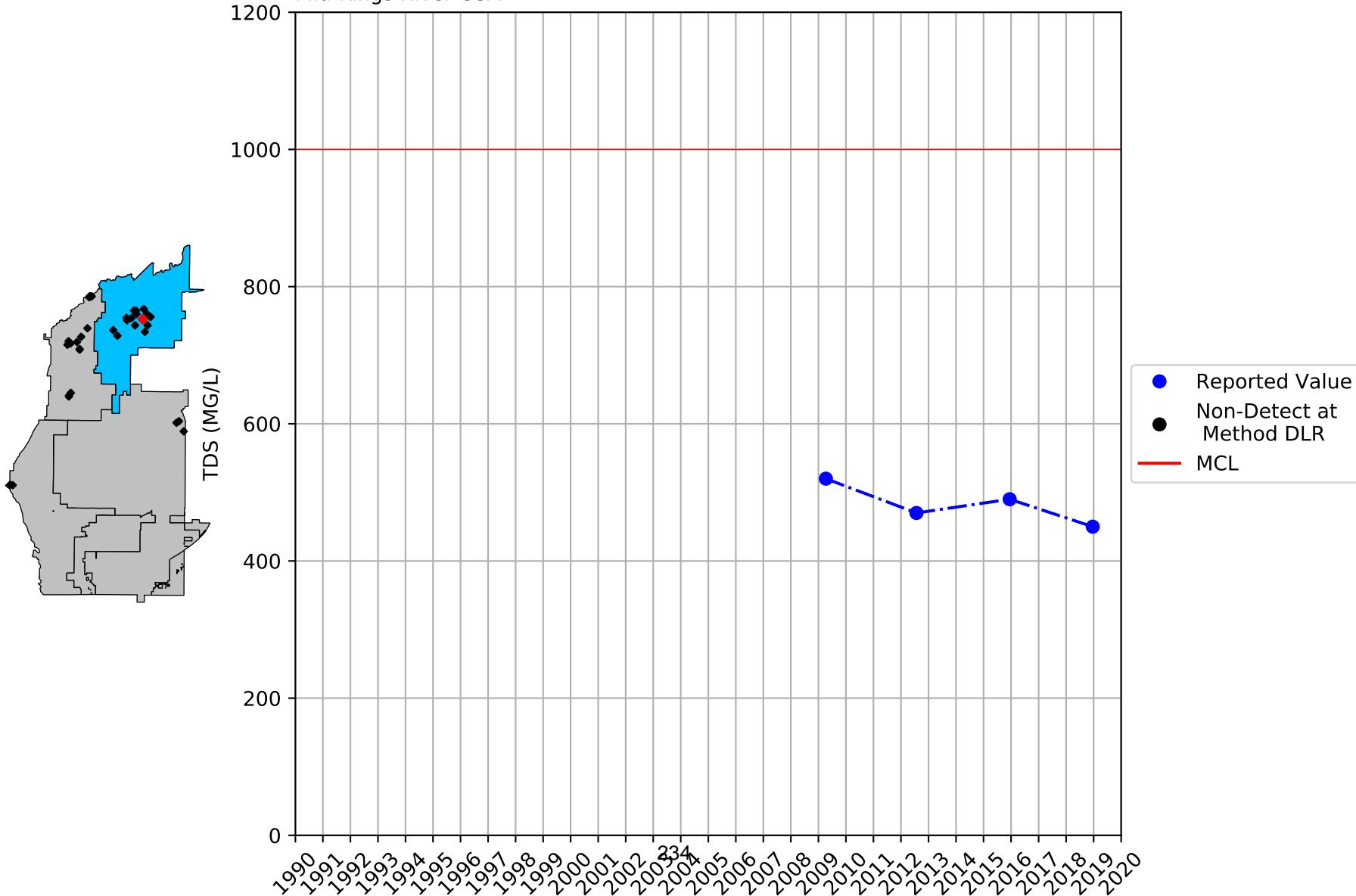
TOTAL DISSOLVED SOLIDS
1610003-038 WELL 44 - RAW
Mid-Kings River GSA



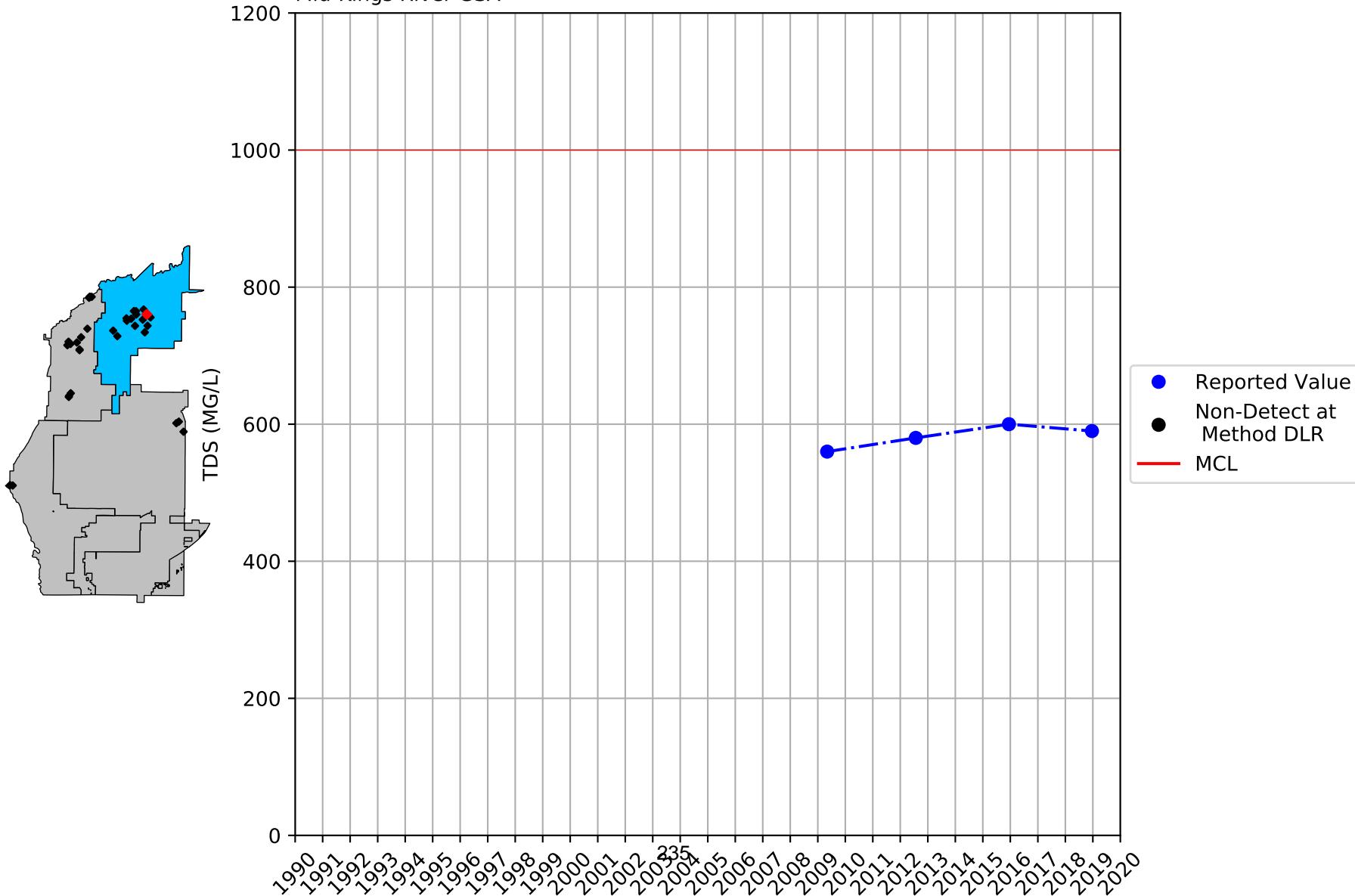
TOTAL DISSOLVED SOLIDS
1610003-039 WELL 45 - RAW
Mid-Kings River GSA



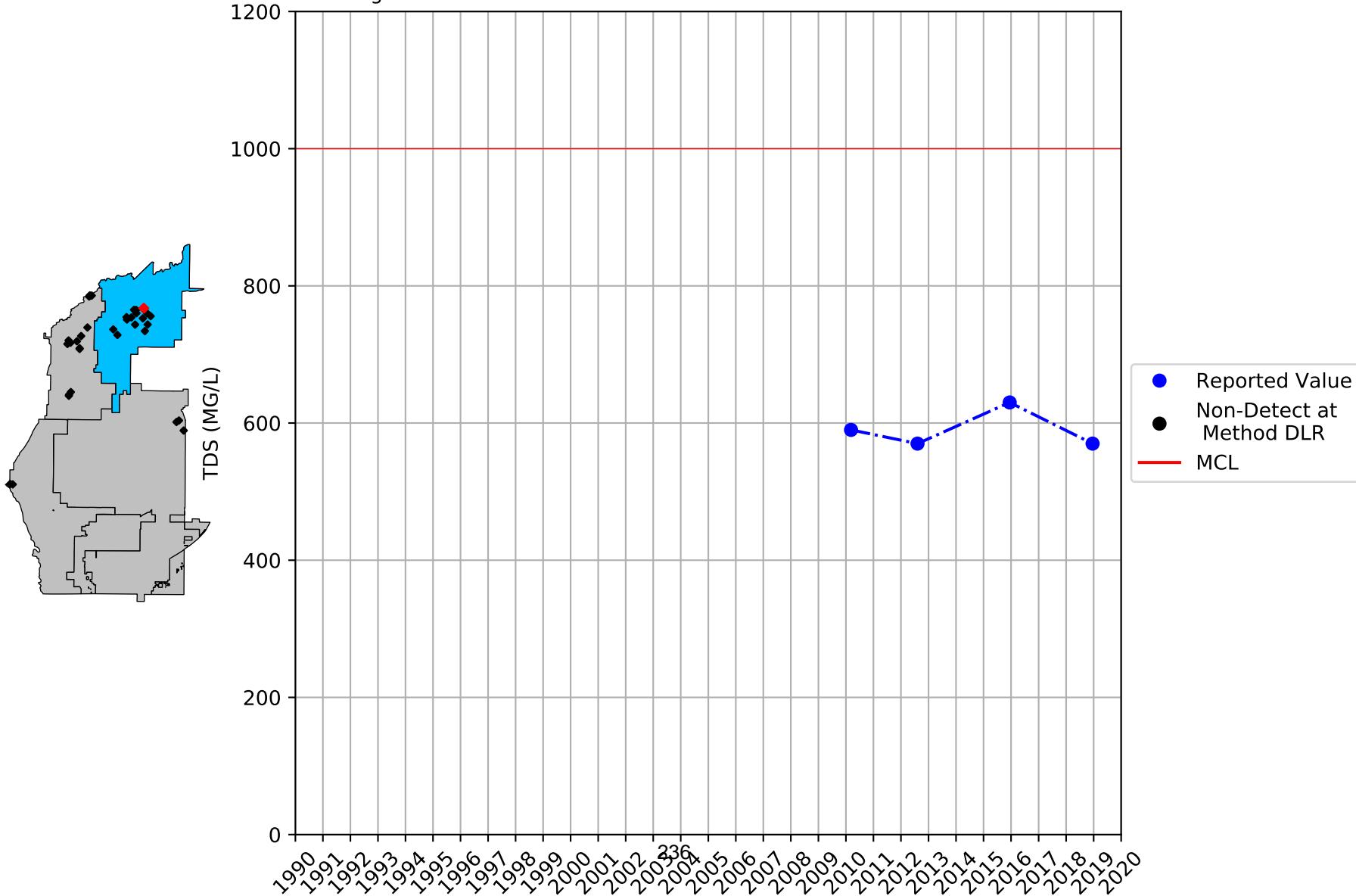
TOTAL DISSOLVED SOLIDS
1610003-040 WELL 46 - RAW
Mid-Kings River GSA



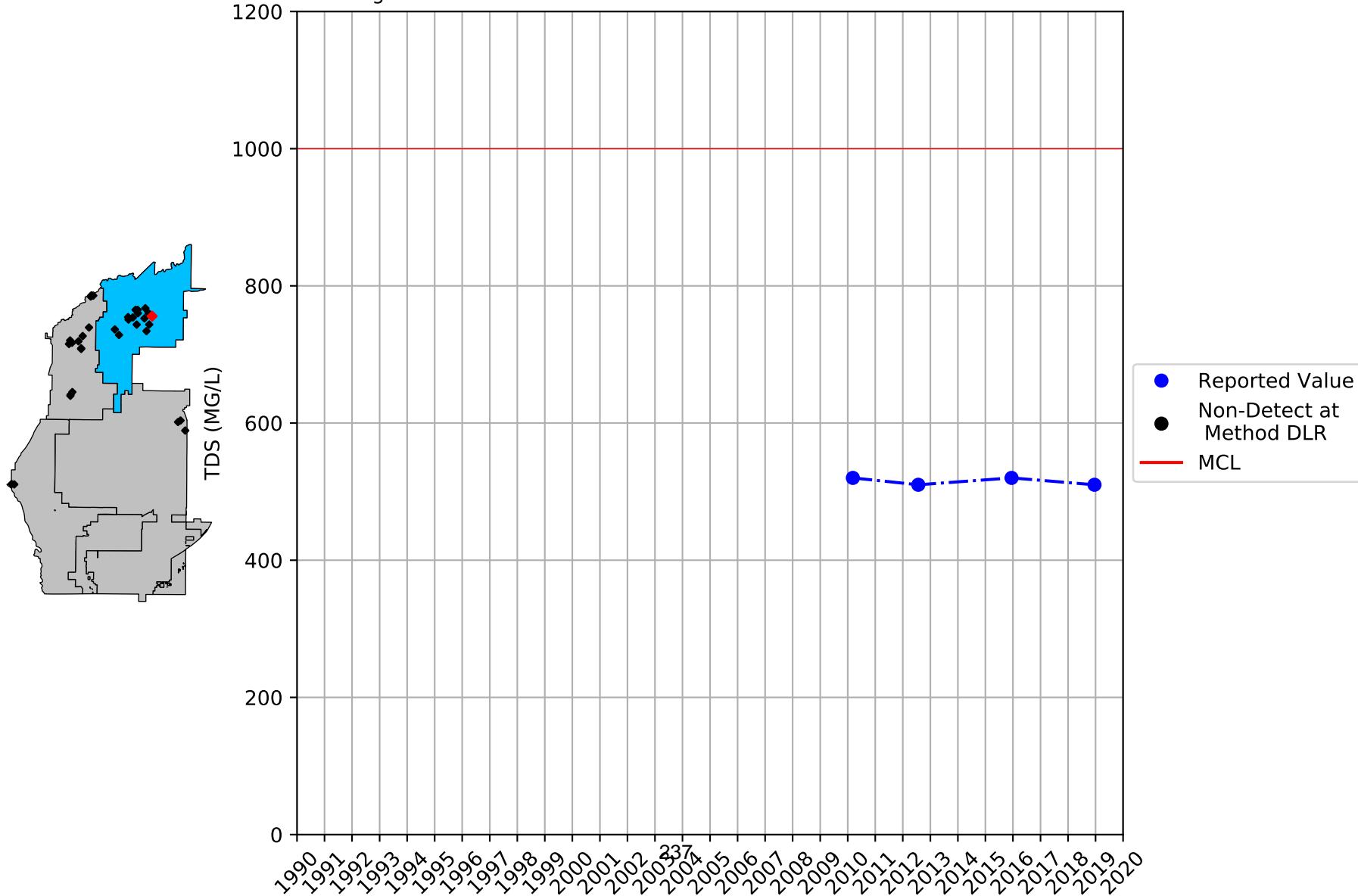
TOTAL DISSOLVED SOLIDS
1610003-041 WELL 47 - RAW
Mid-Kings River GSA



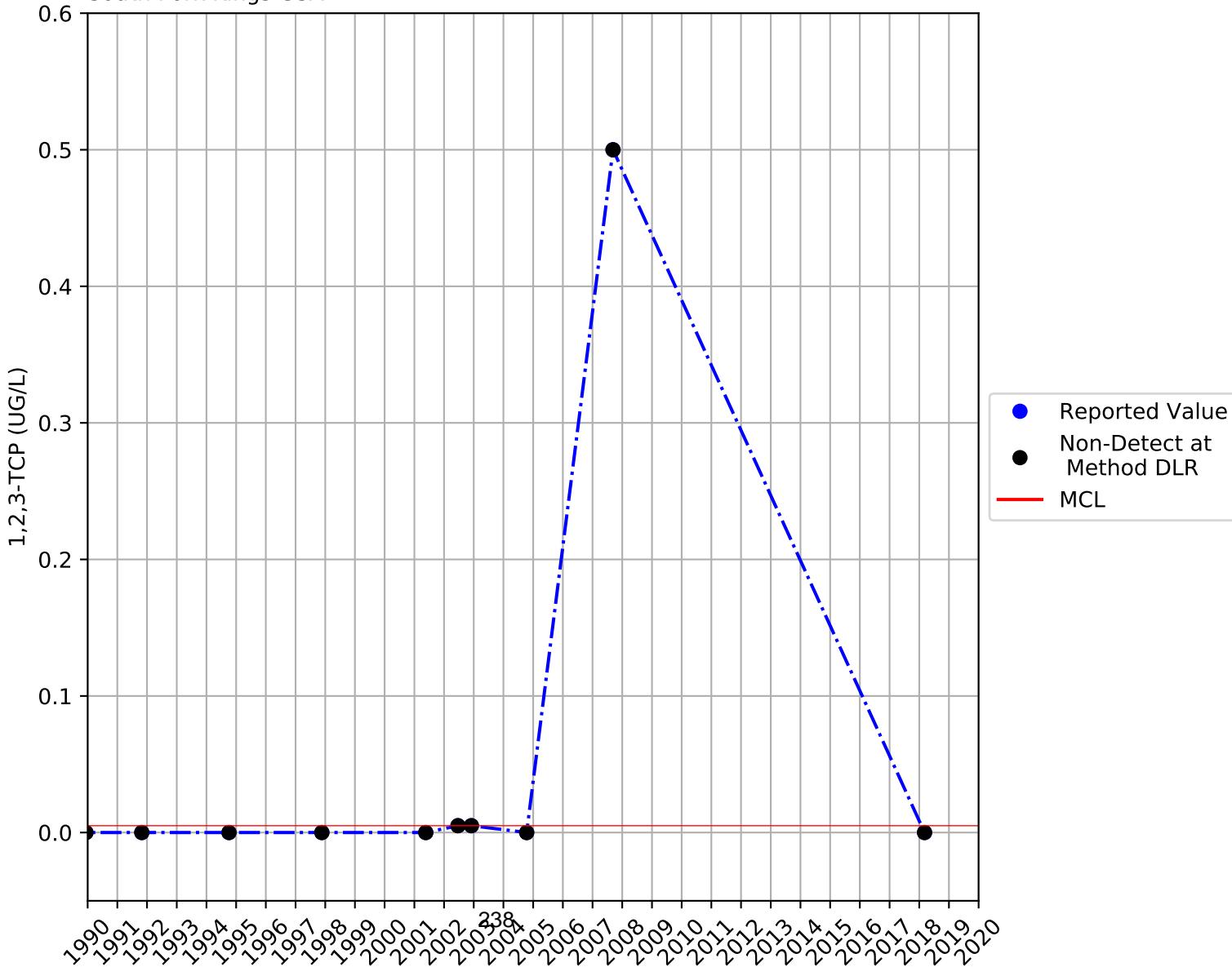
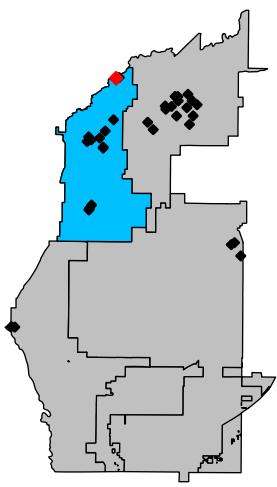
TOTAL DISSOLVED SOLIDS
1610003-042 WELL 48 - RAW
Mid-Kings River GSA



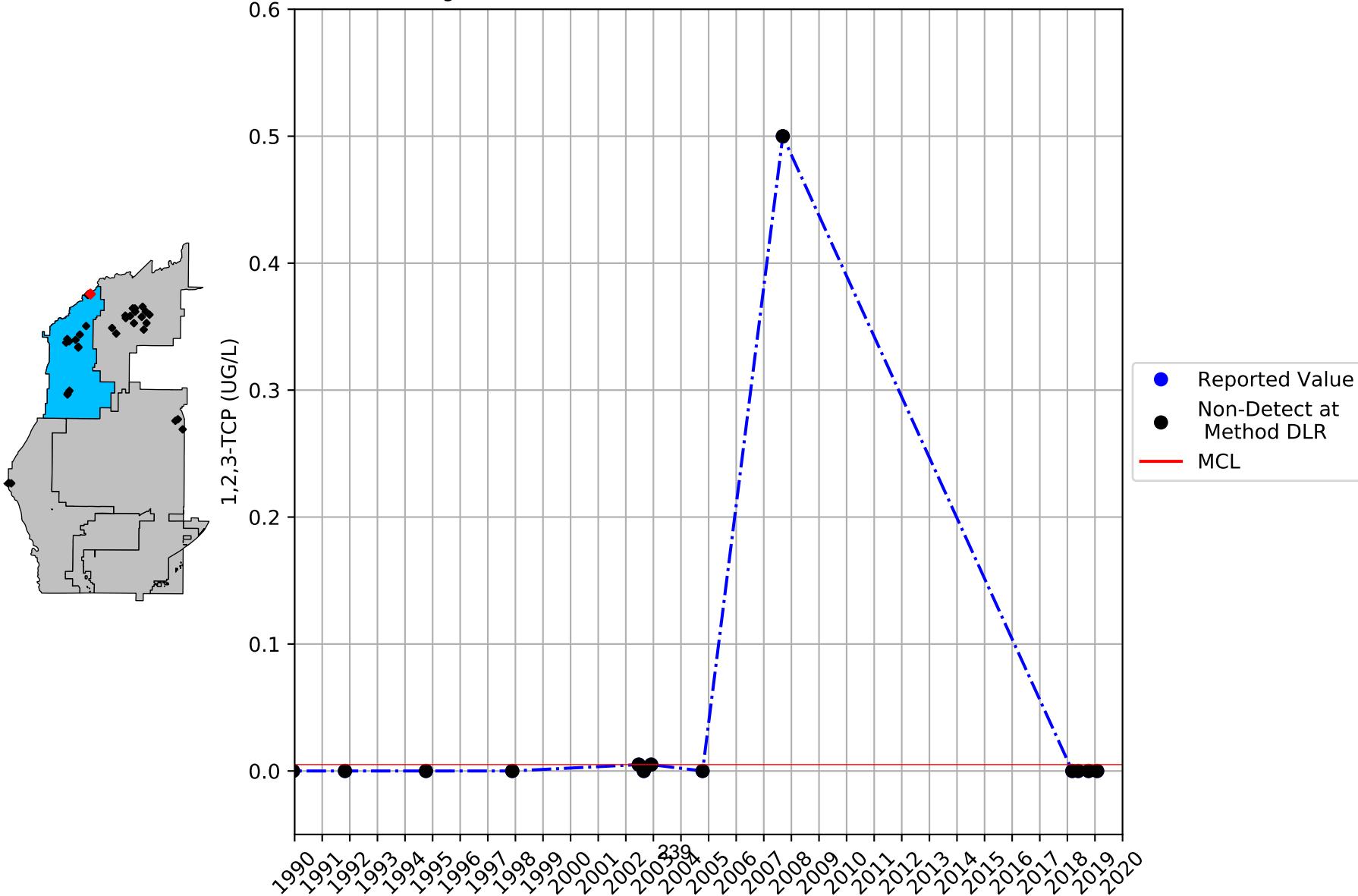
TOTAL DISSOLVED SOLIDS
1610003-043 WELL 49 - RAW
Mid-Kings River GSA



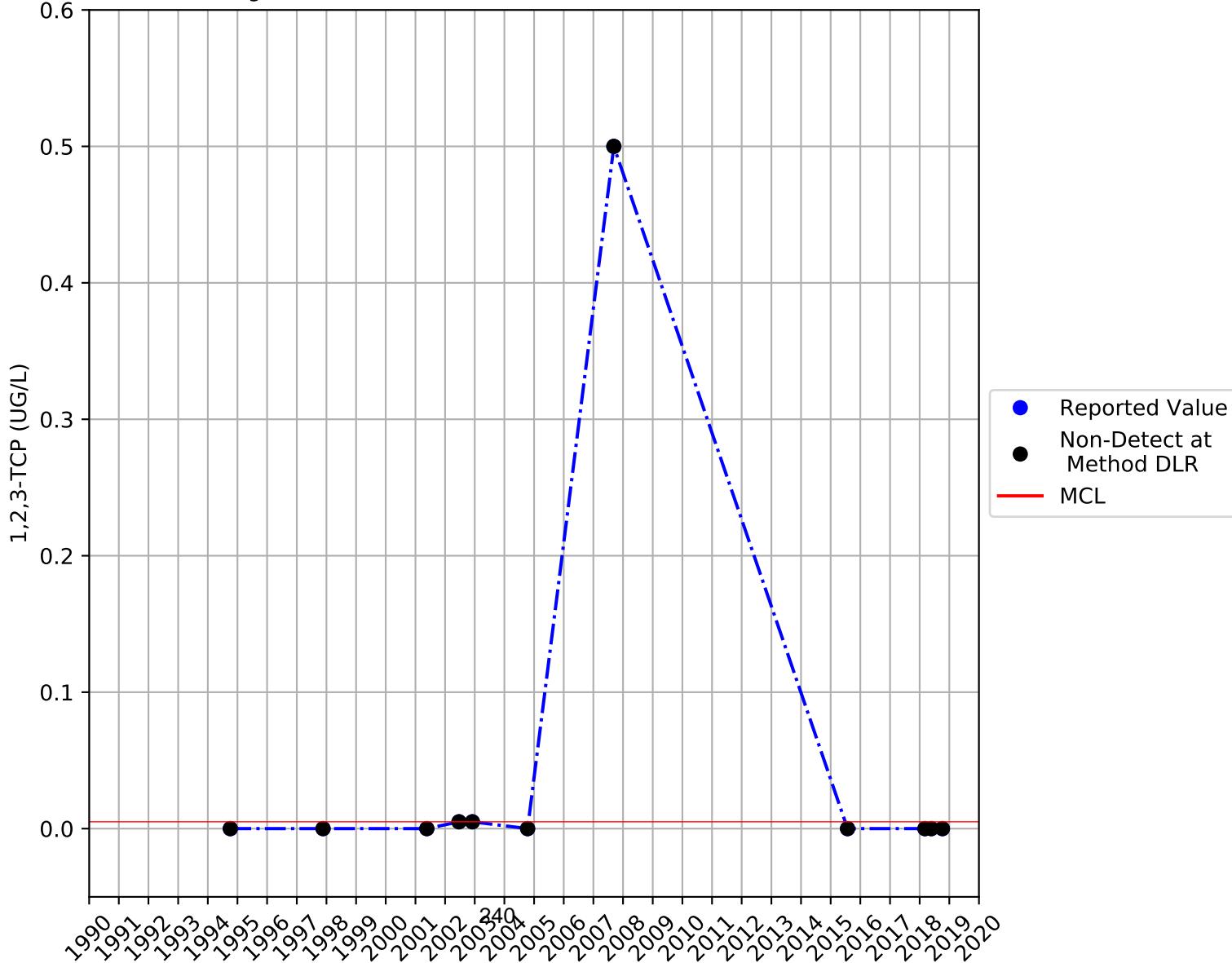
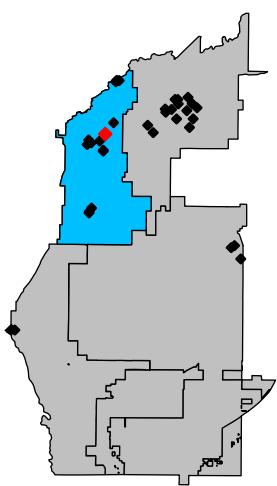
1,2,3-TRICHLOROPROPANE
1610005-003 WELL N-2 - RAW
South Fork Kings GSA



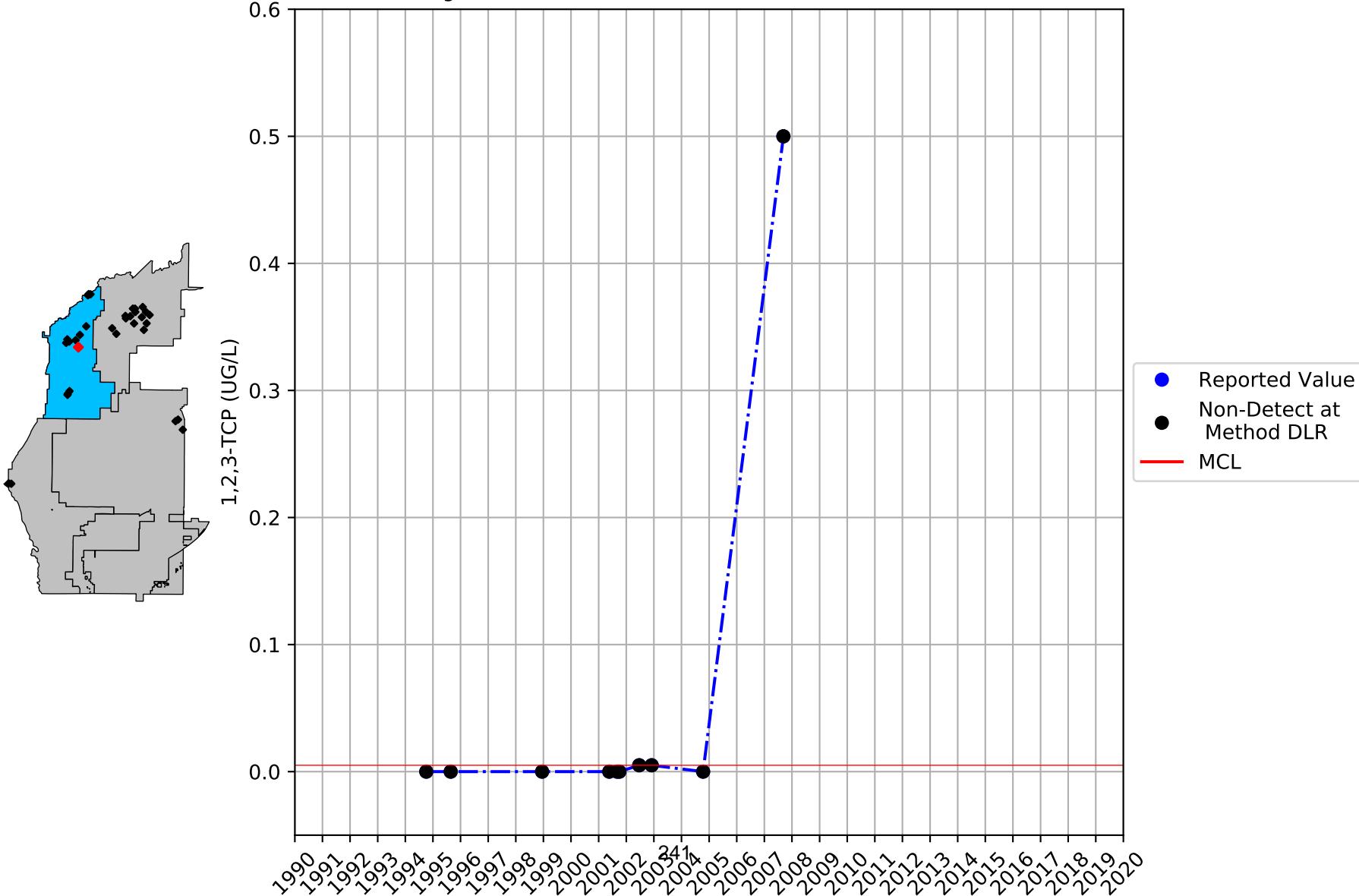
1,2,3-TRICHLOROPROPANE
1610005-005 WELL N-4 - RAW
South Fork Kings GSA



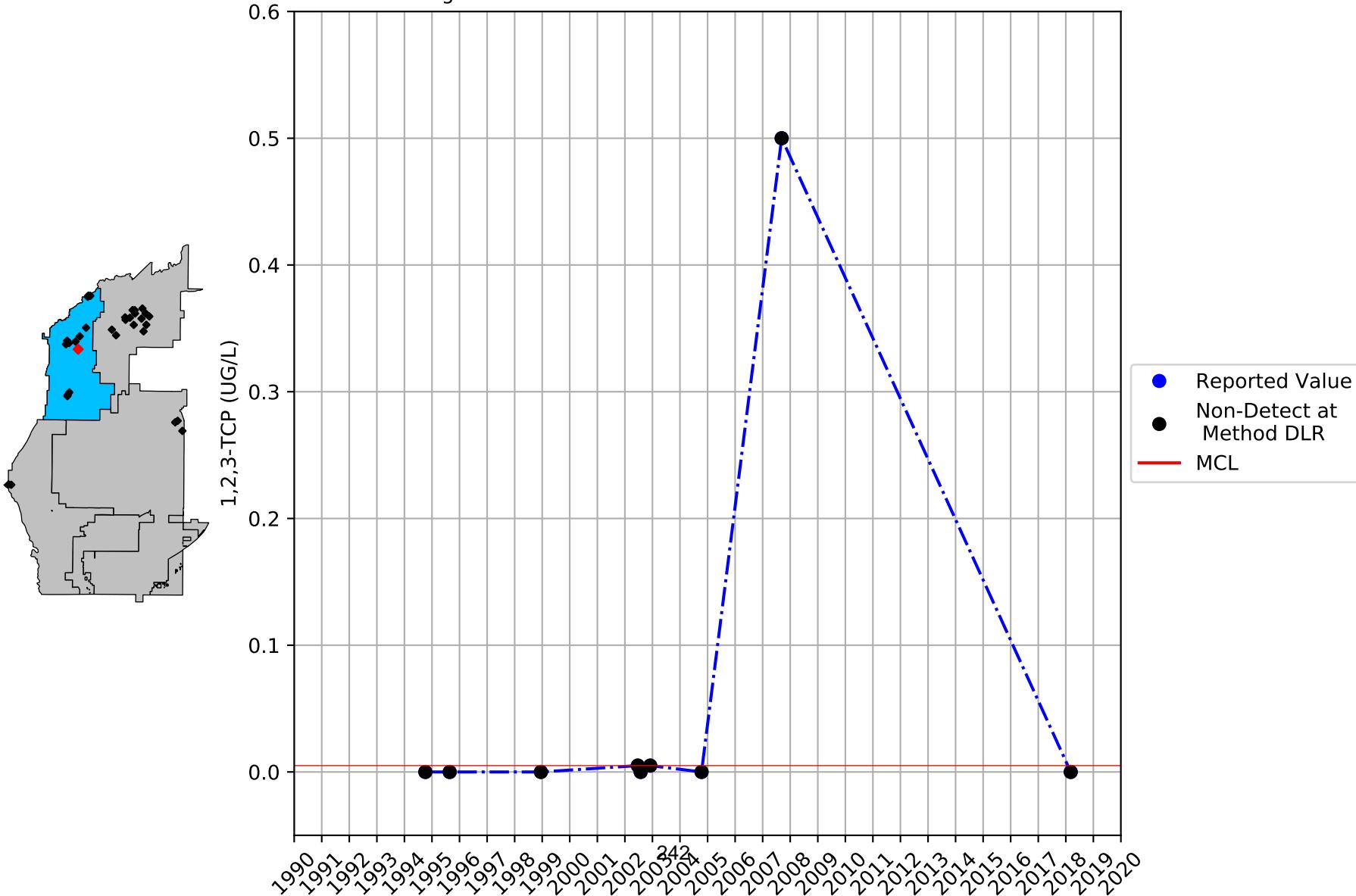
1,2,3-TRICHLOROPROPANE
1610005-006 WELL 10 - RAW
South Fork Kings GSA



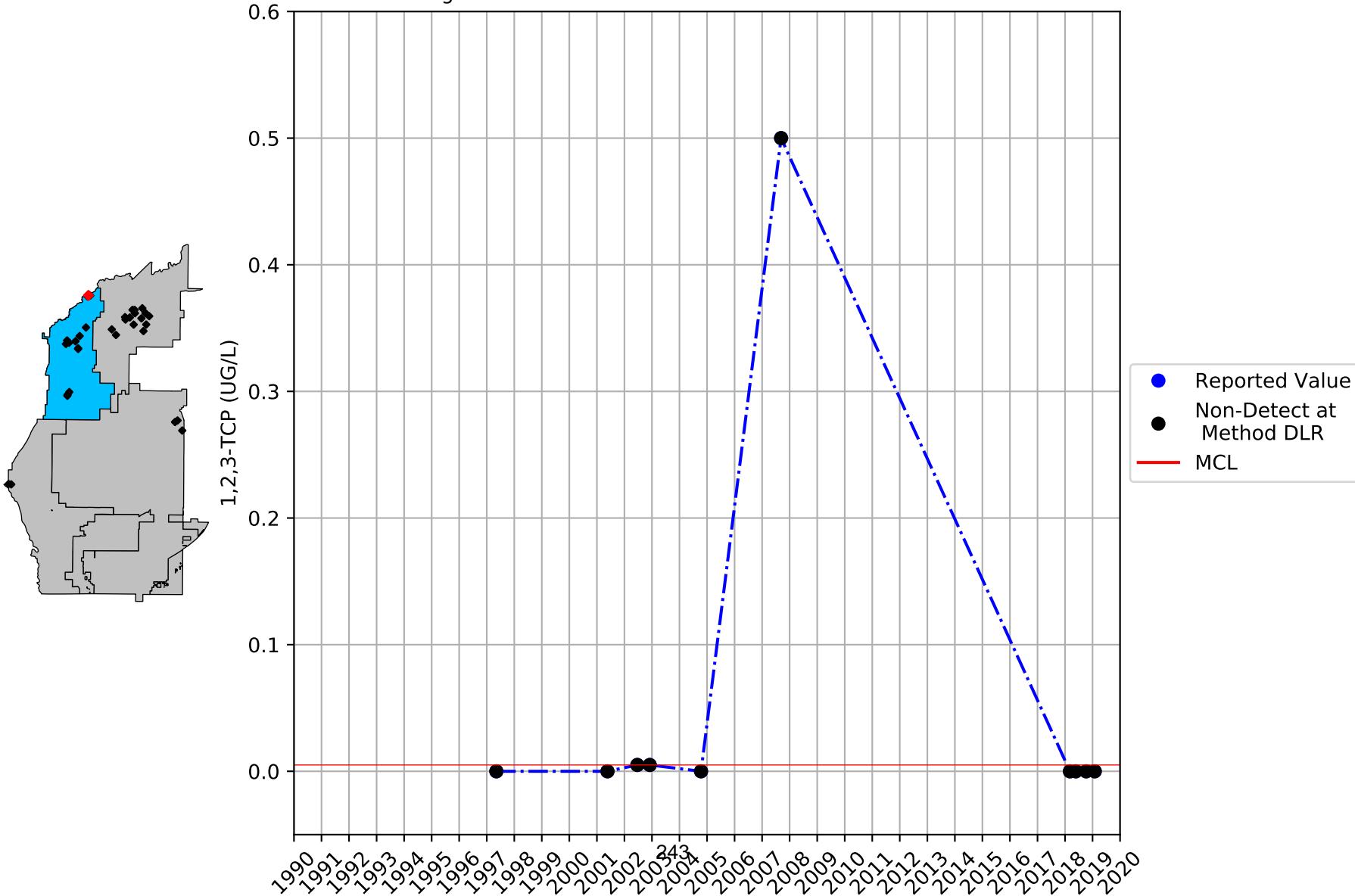
1,2,3-TRICHLOROPROPANE
1610005-007 WELL 08 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



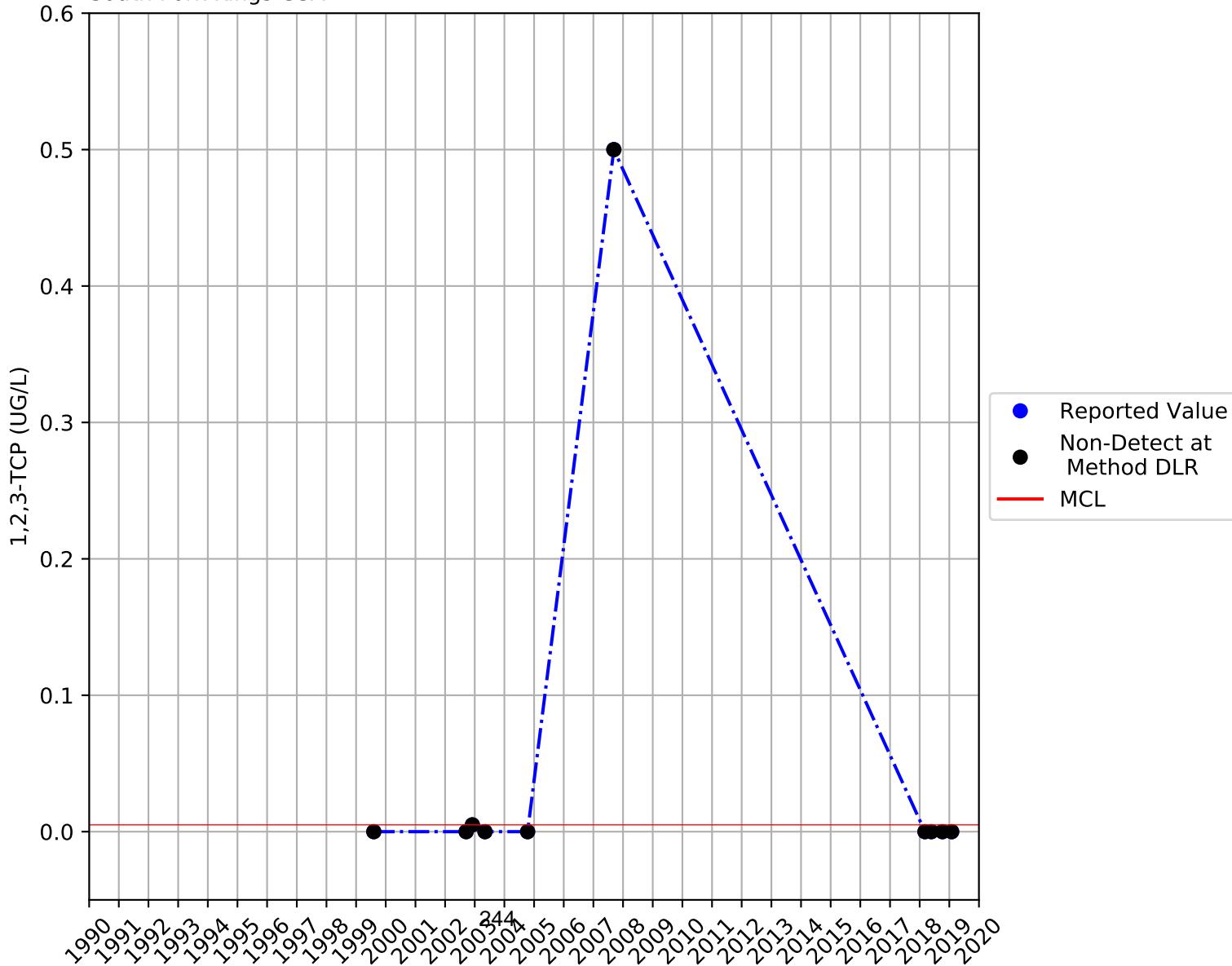
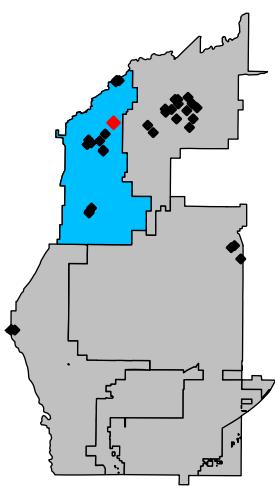
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1610005-008 WELL 09 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



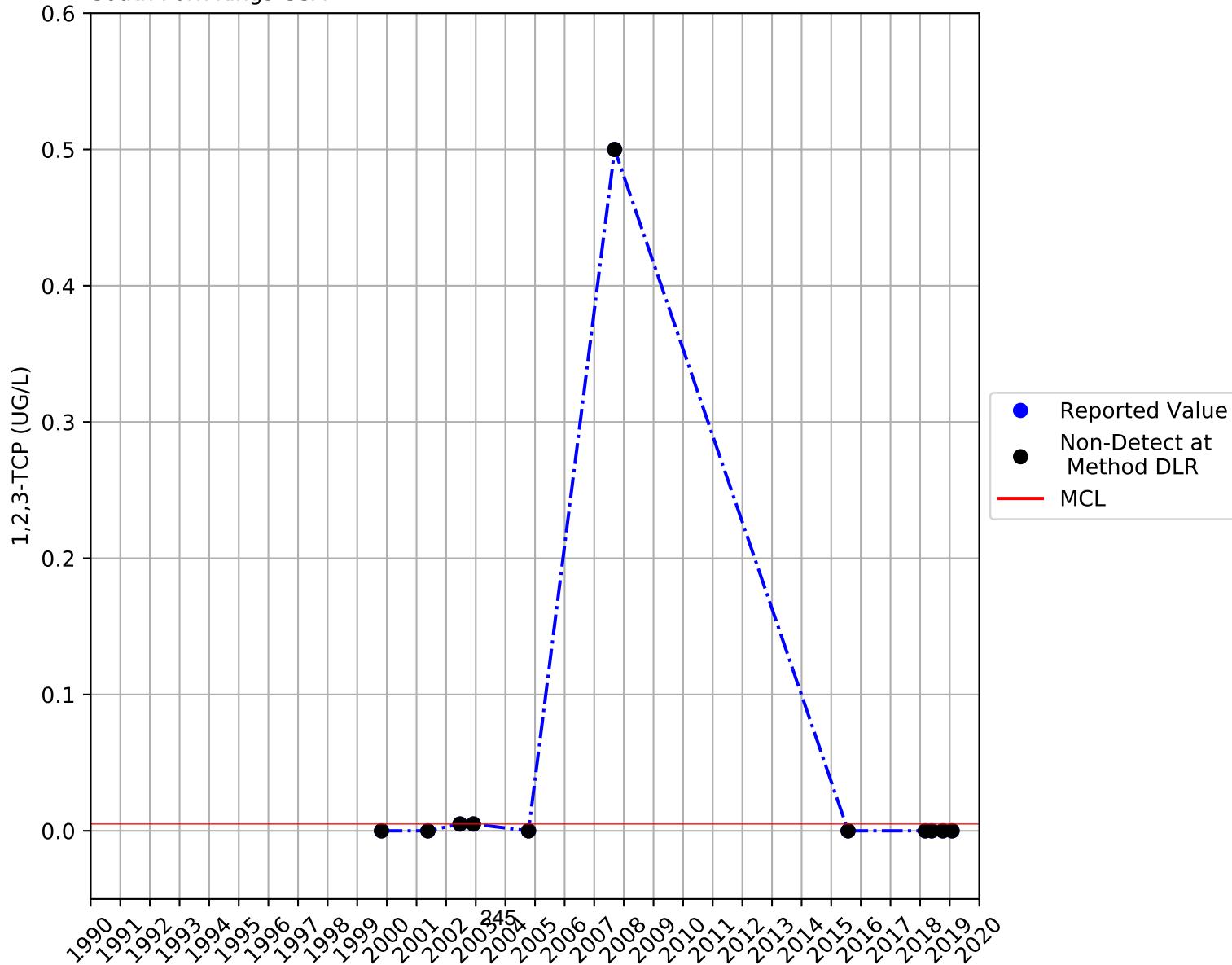
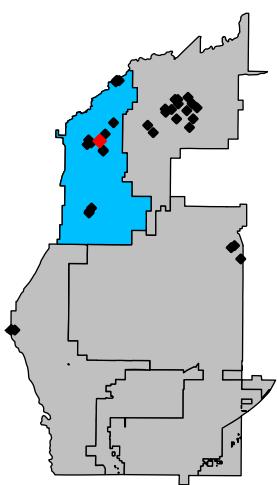
1,2,3-TRICHLOROPROPANE
1610005-009 WELL N-5 - RAW
South Fork Kings GSA



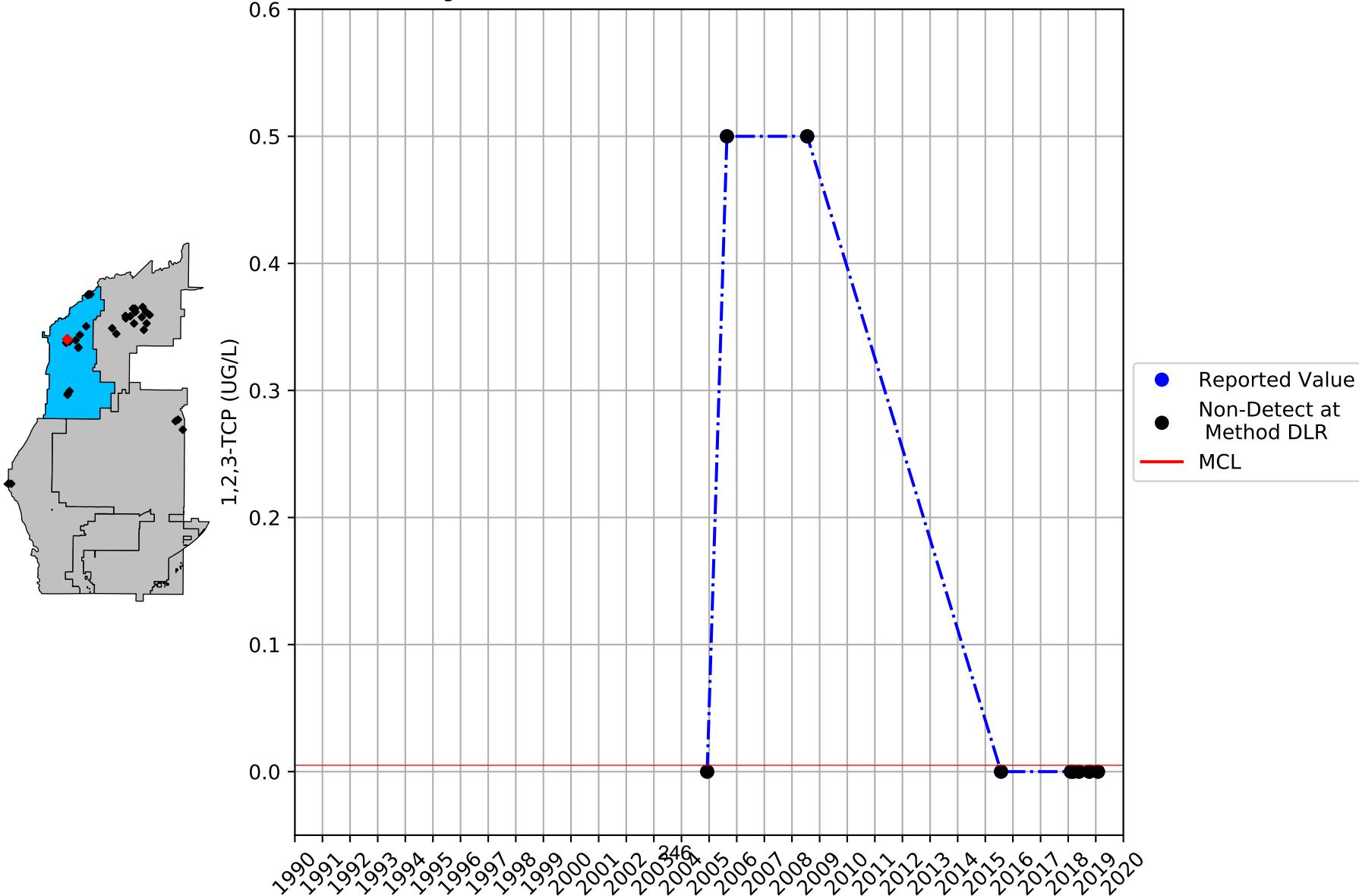
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1610005-010 WELL 11 - RAW
South Fork Kings GSA



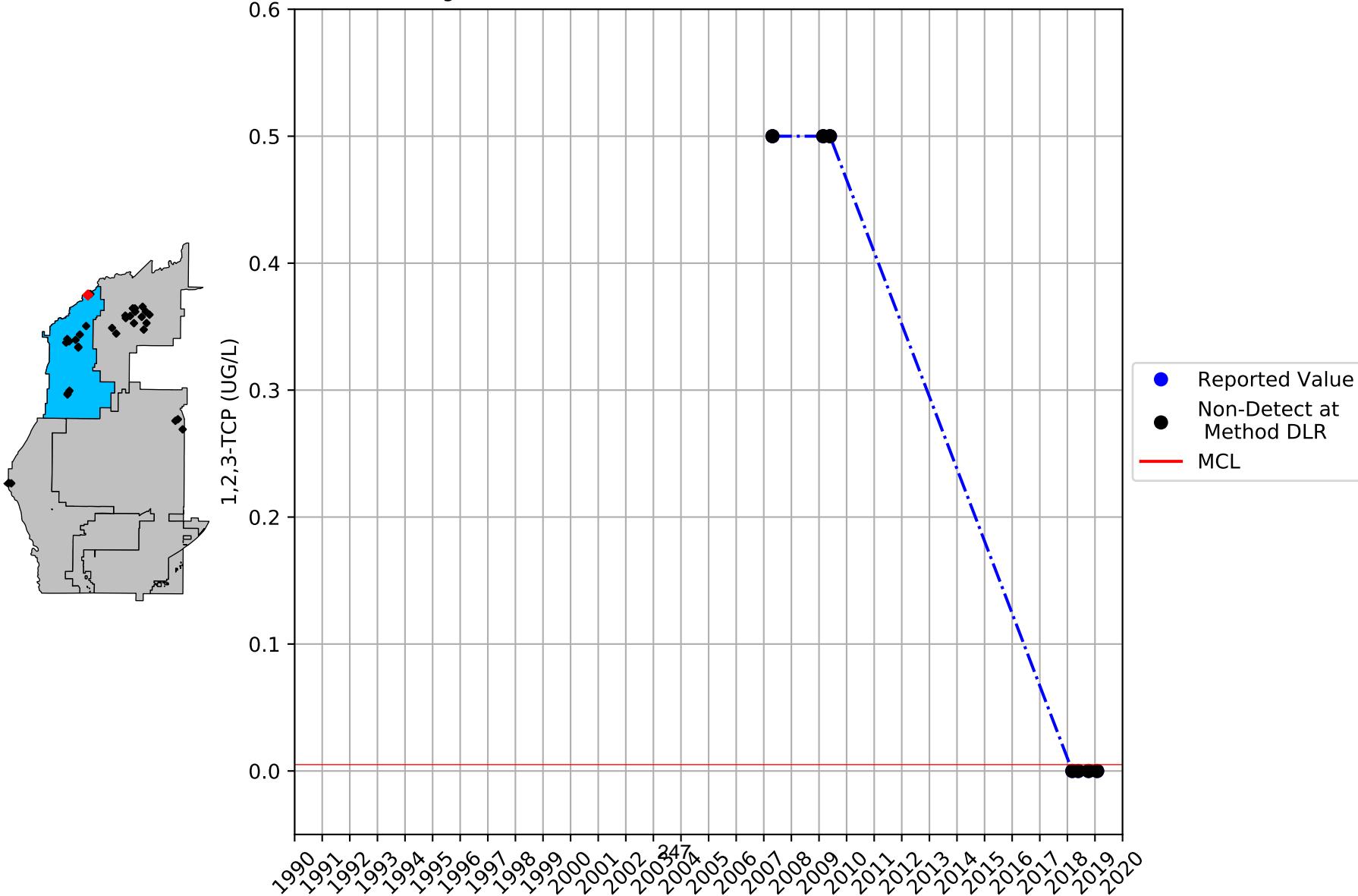
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1610005-011 WELL 12 - RAW
South Fork Kings GSA



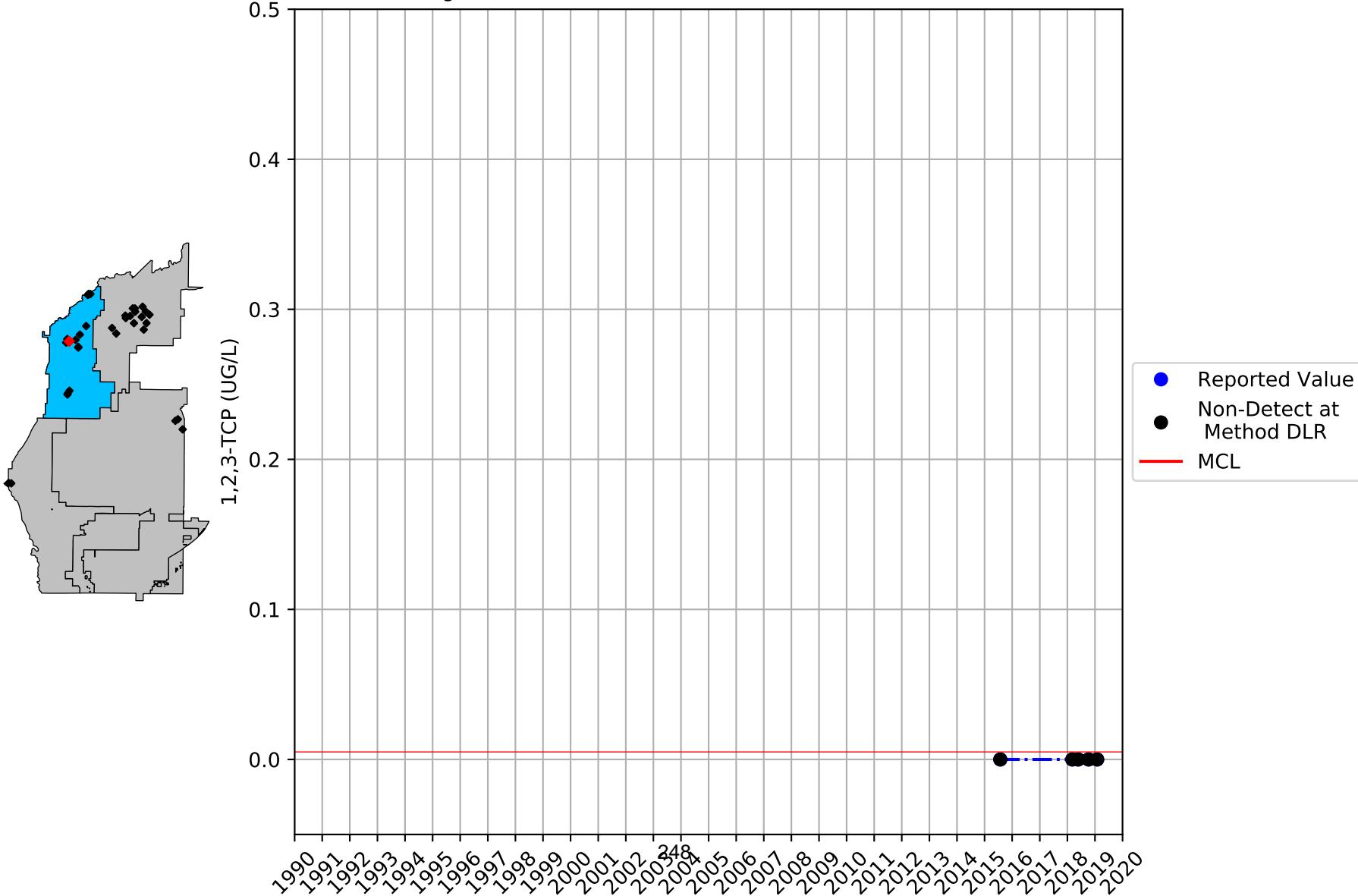
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1610005-018 WELL 07 - RAW
South Fork Kings GSA



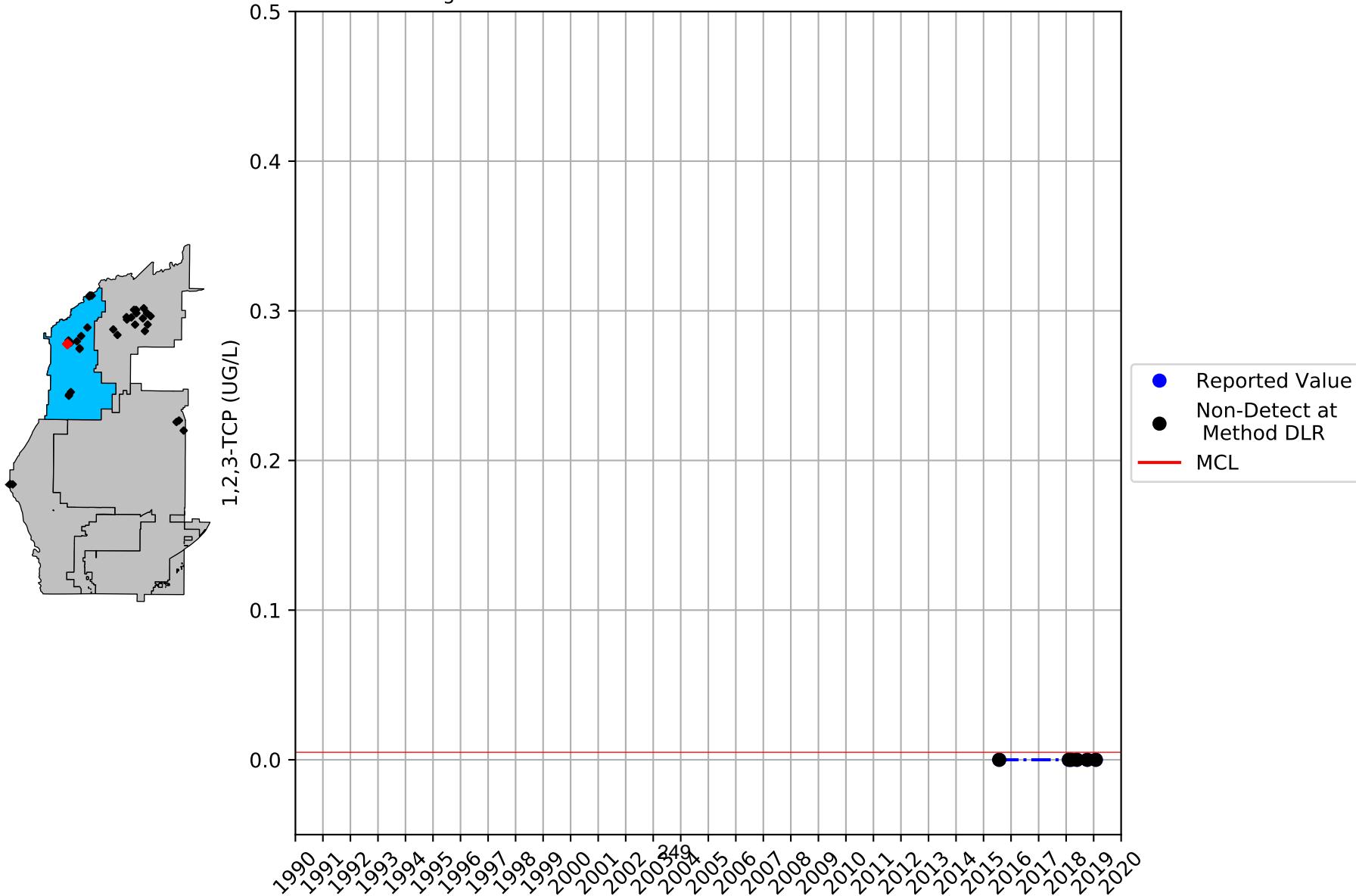
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1610005-020 WELL N-6 - RAW
South Fork Kings GSA



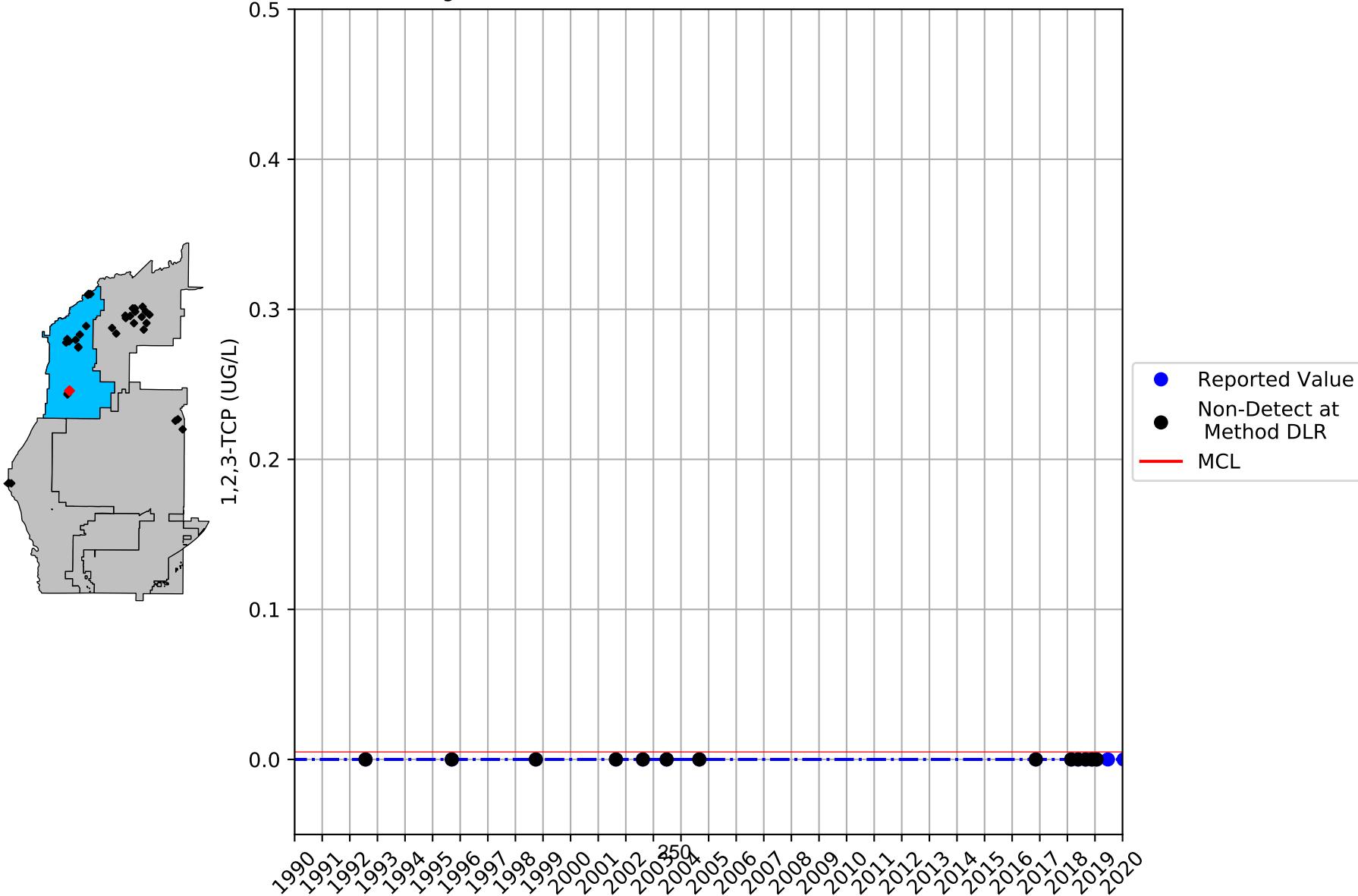
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1610005-021 WELL 13 - RAW
South Fork Kings GSA



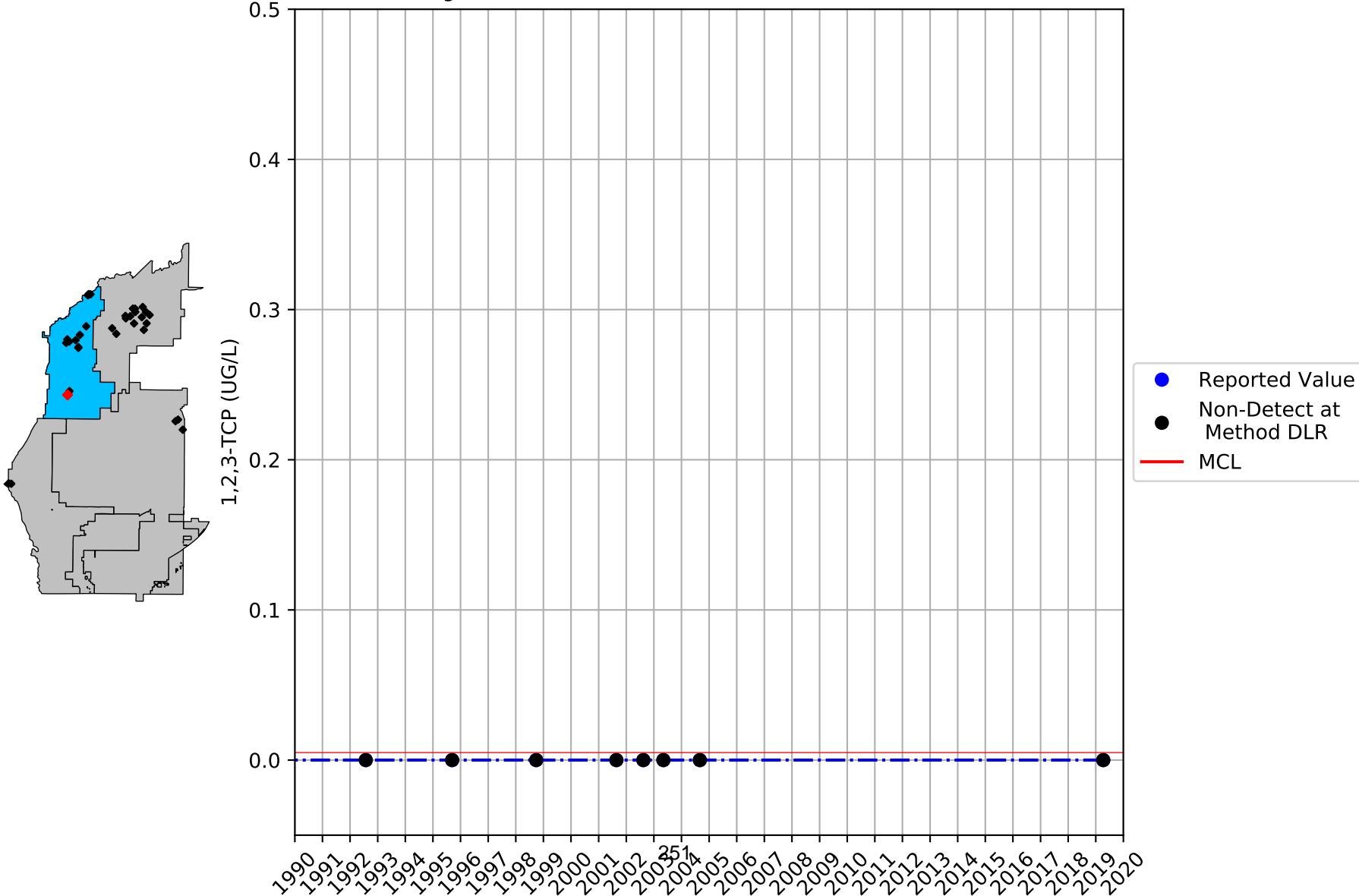
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1610005-022 WELL 14 - RAW
South Fork Kings GSA



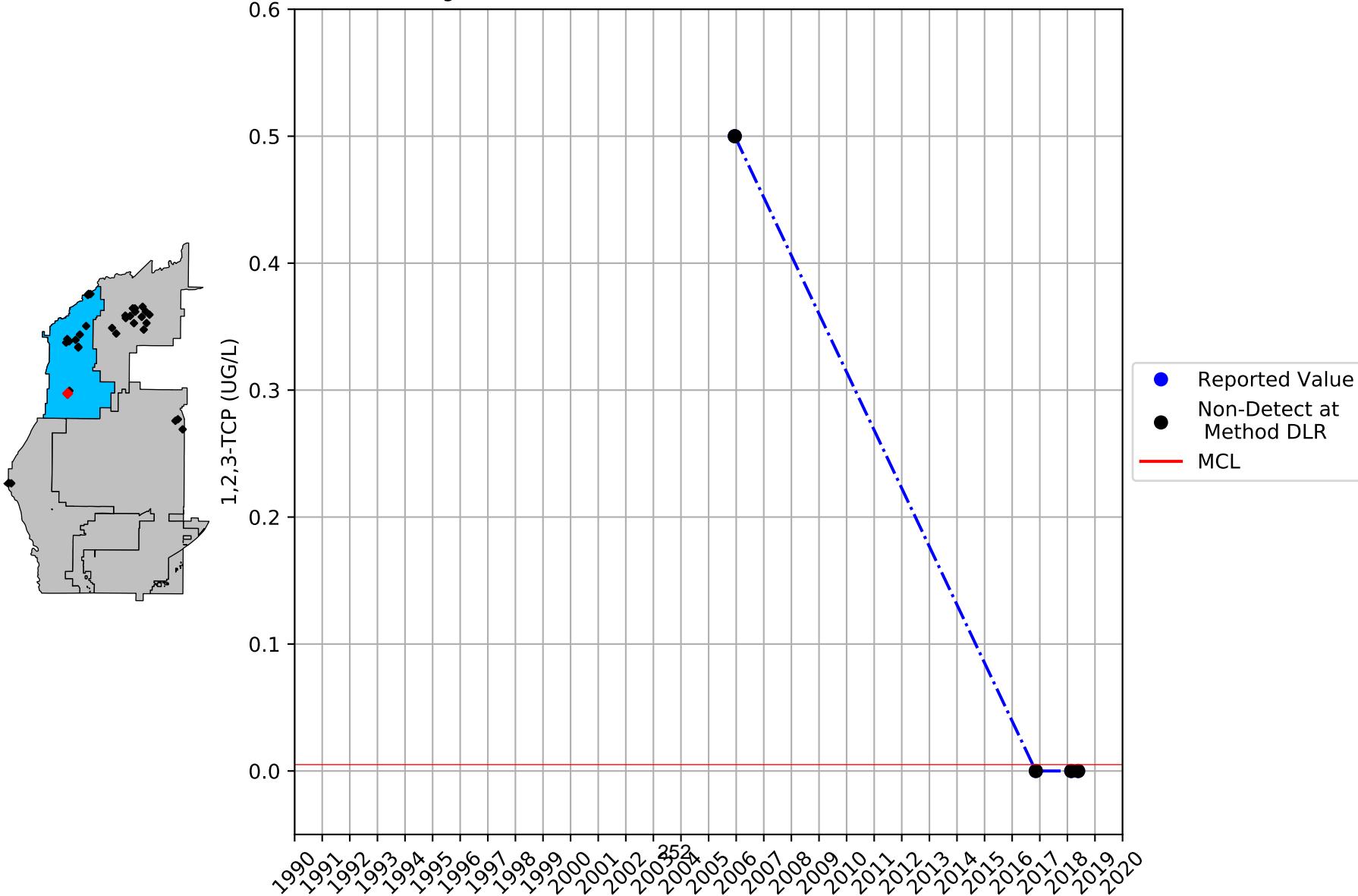
1,2,3-TRICHLOROPROPANE
1610006-001 WELL 05 - RAW
South Fork Kings GSA



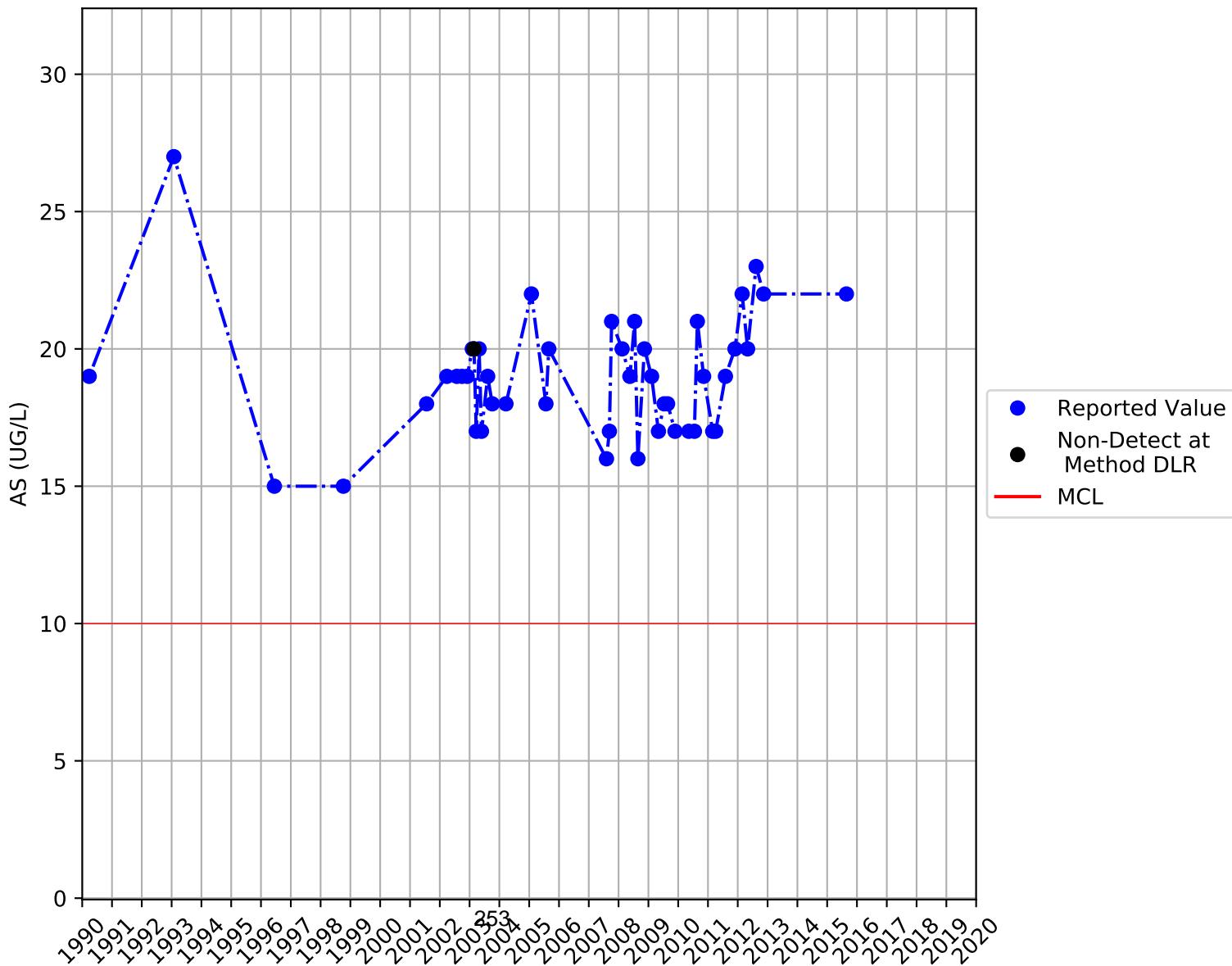
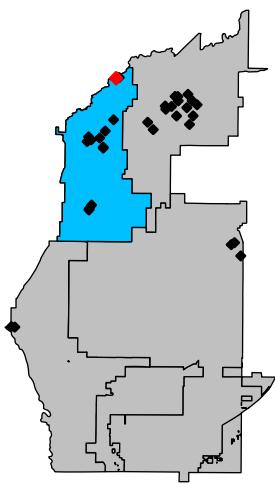
1,2,3-TRICHLOROPROPANE
1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



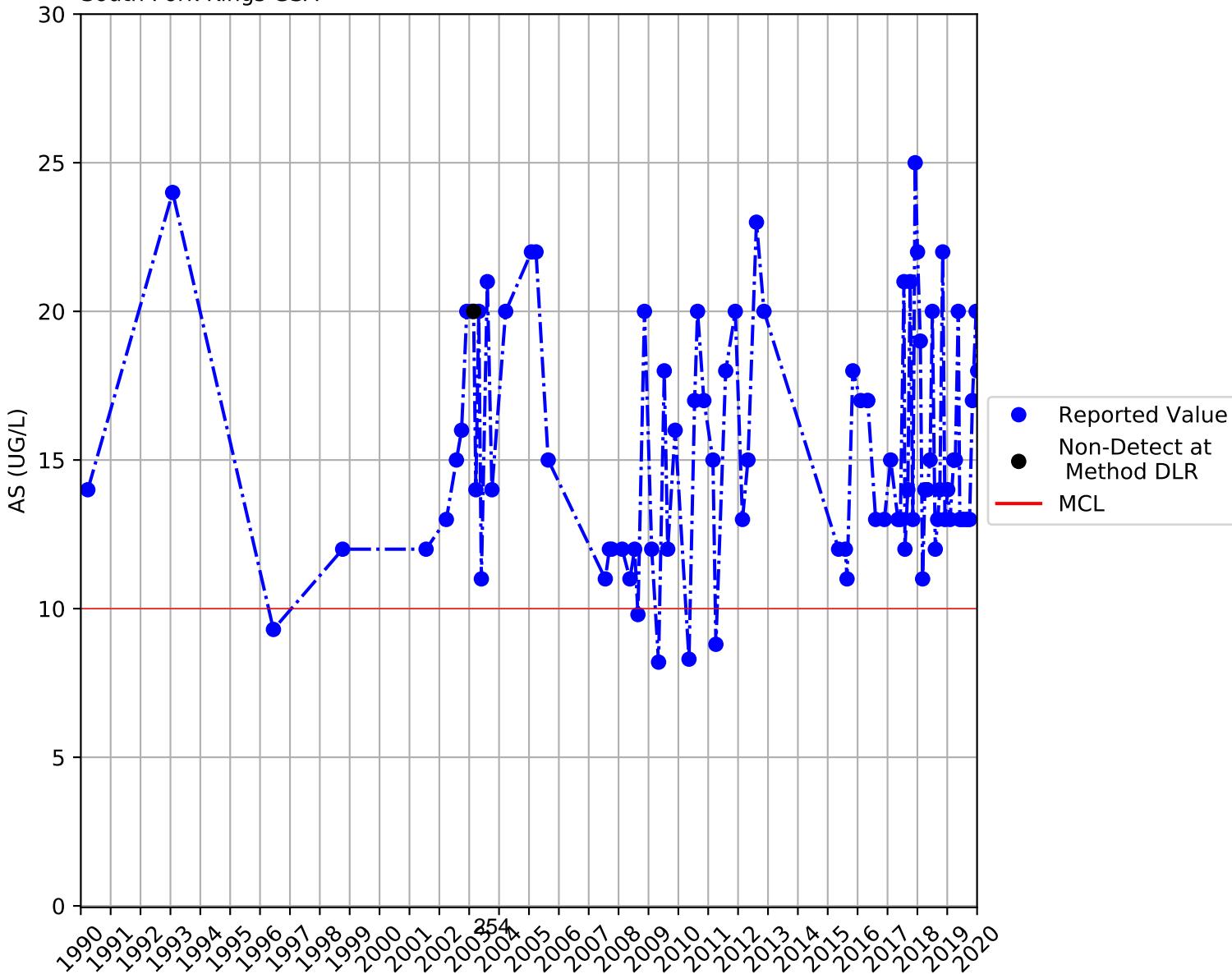
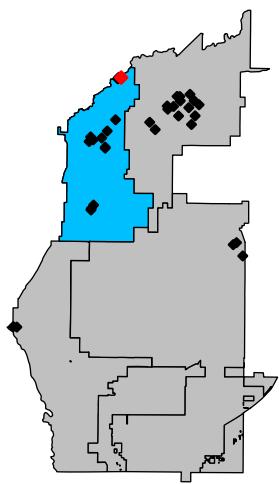
1,2,3-TRICHLOROPROPANE
1610006-005 WELL 07 - RAW
South Fork Kings GSA



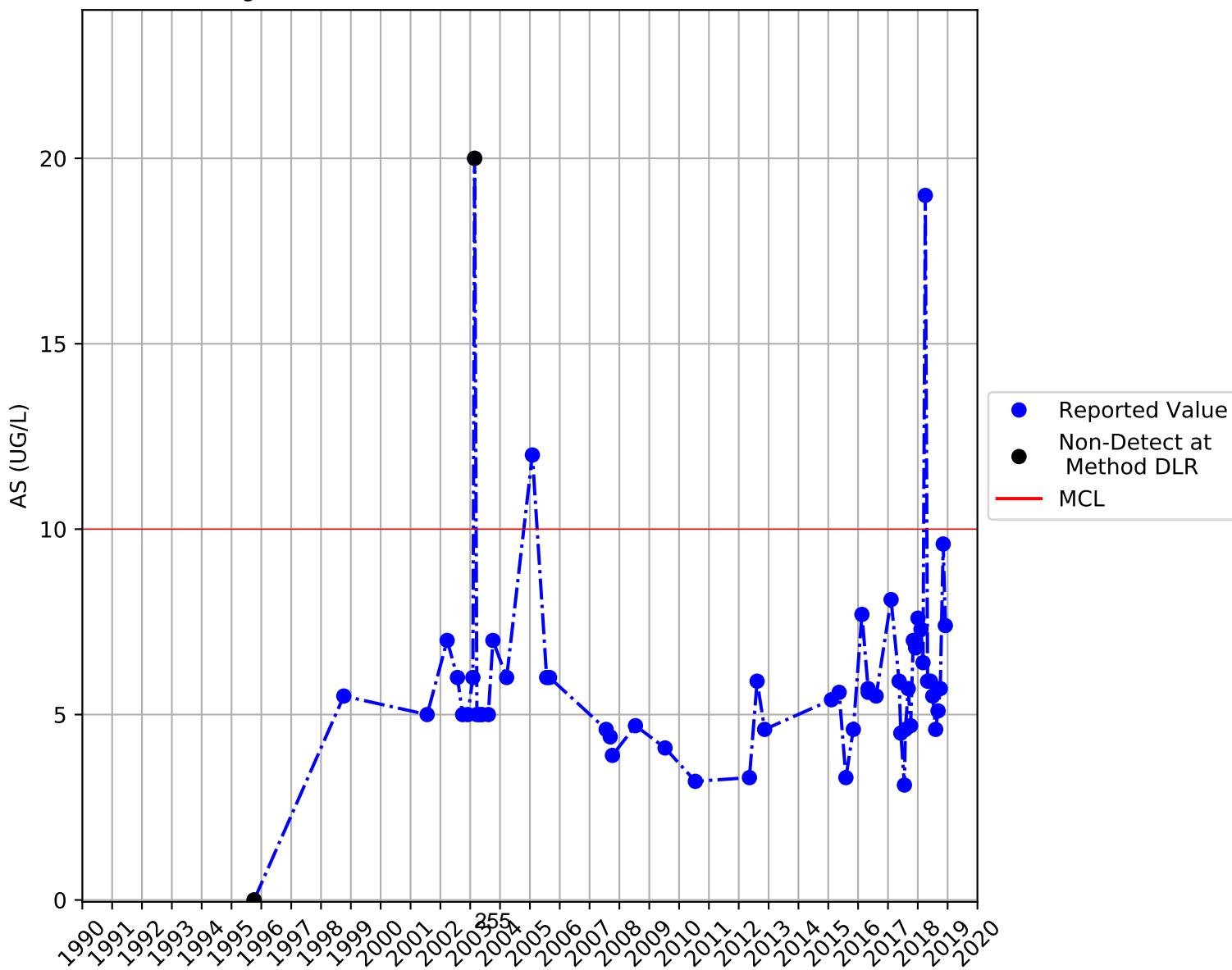
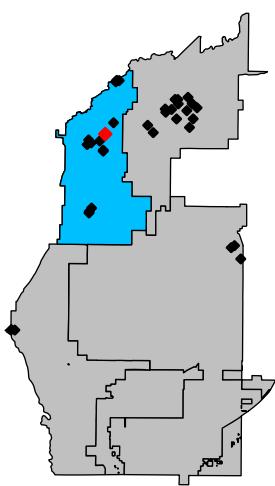
ARSENIC
1610005-003 WELL N-2 - RAW
South Fork Kings GSA



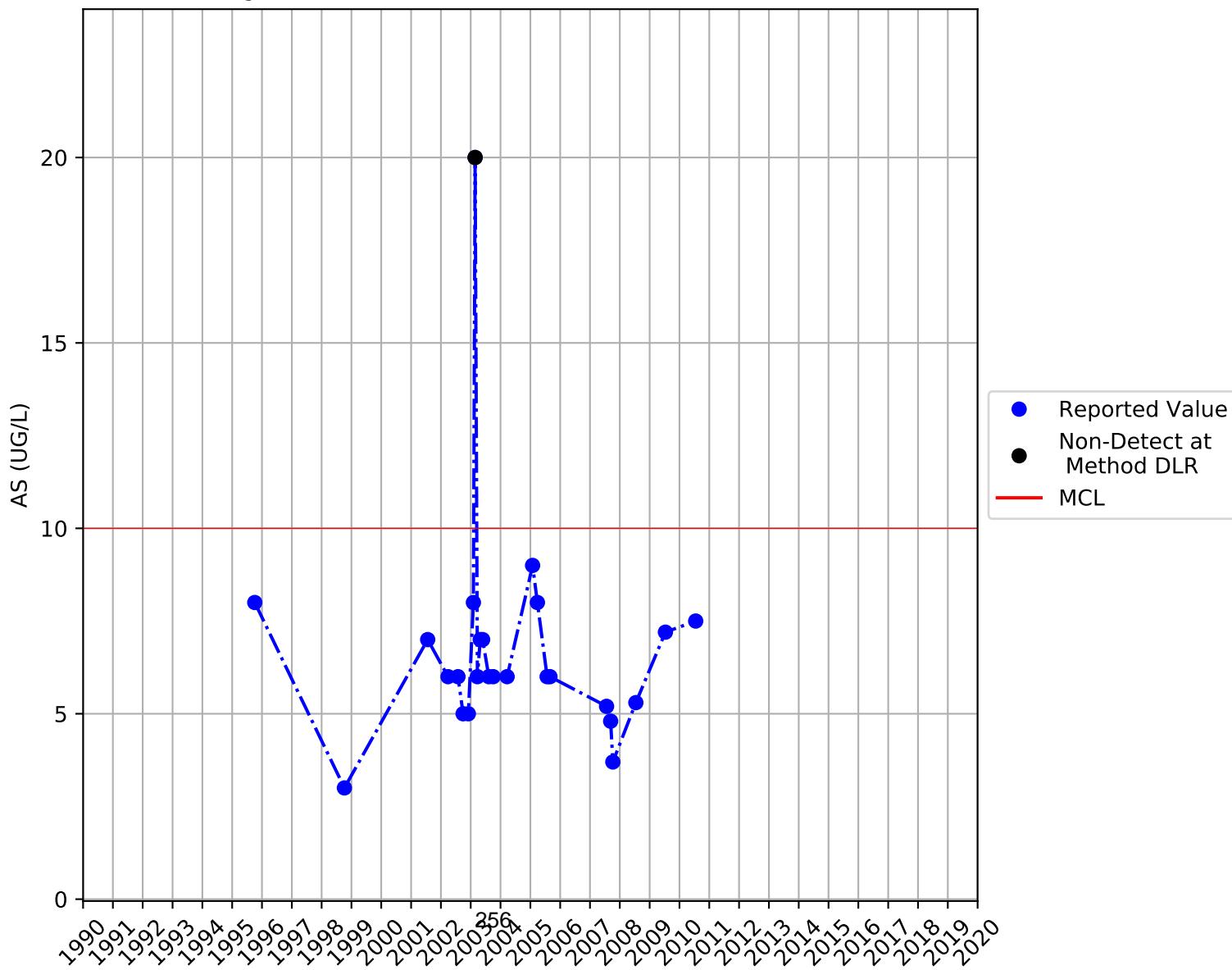
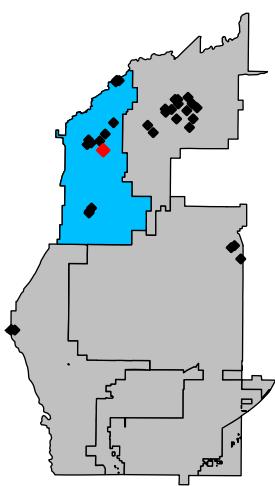
ARSENIC
1610005-005 WELL N-4 - RAW
South Fork Kings GSA



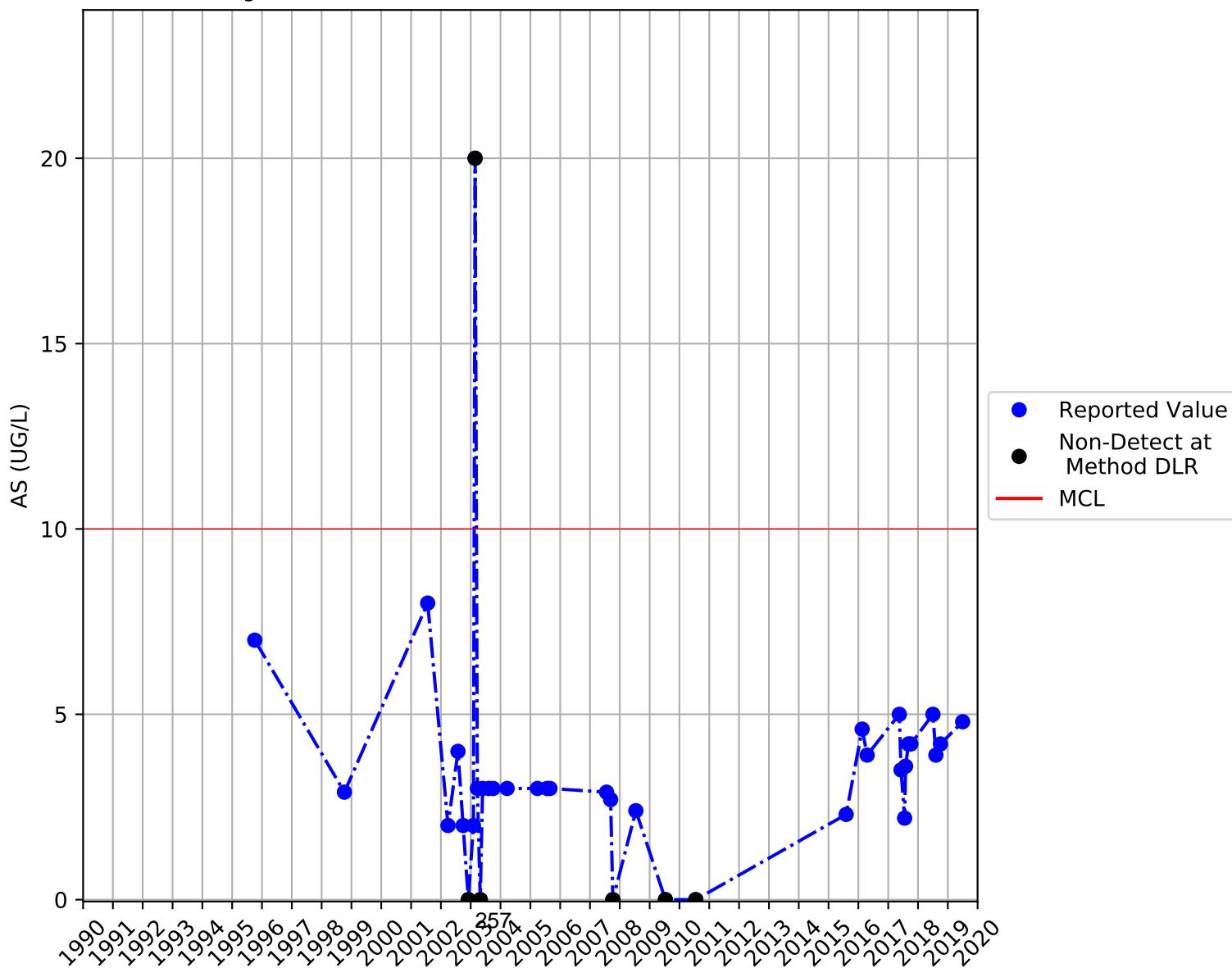
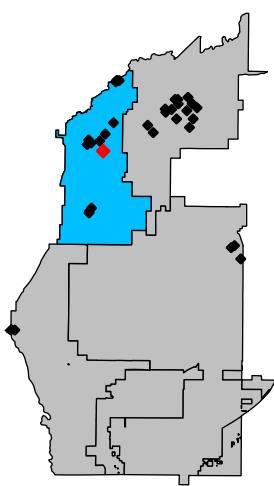
ARSENIC
1610005-006 WELL 10 - RAW
South Fork Kings GSA



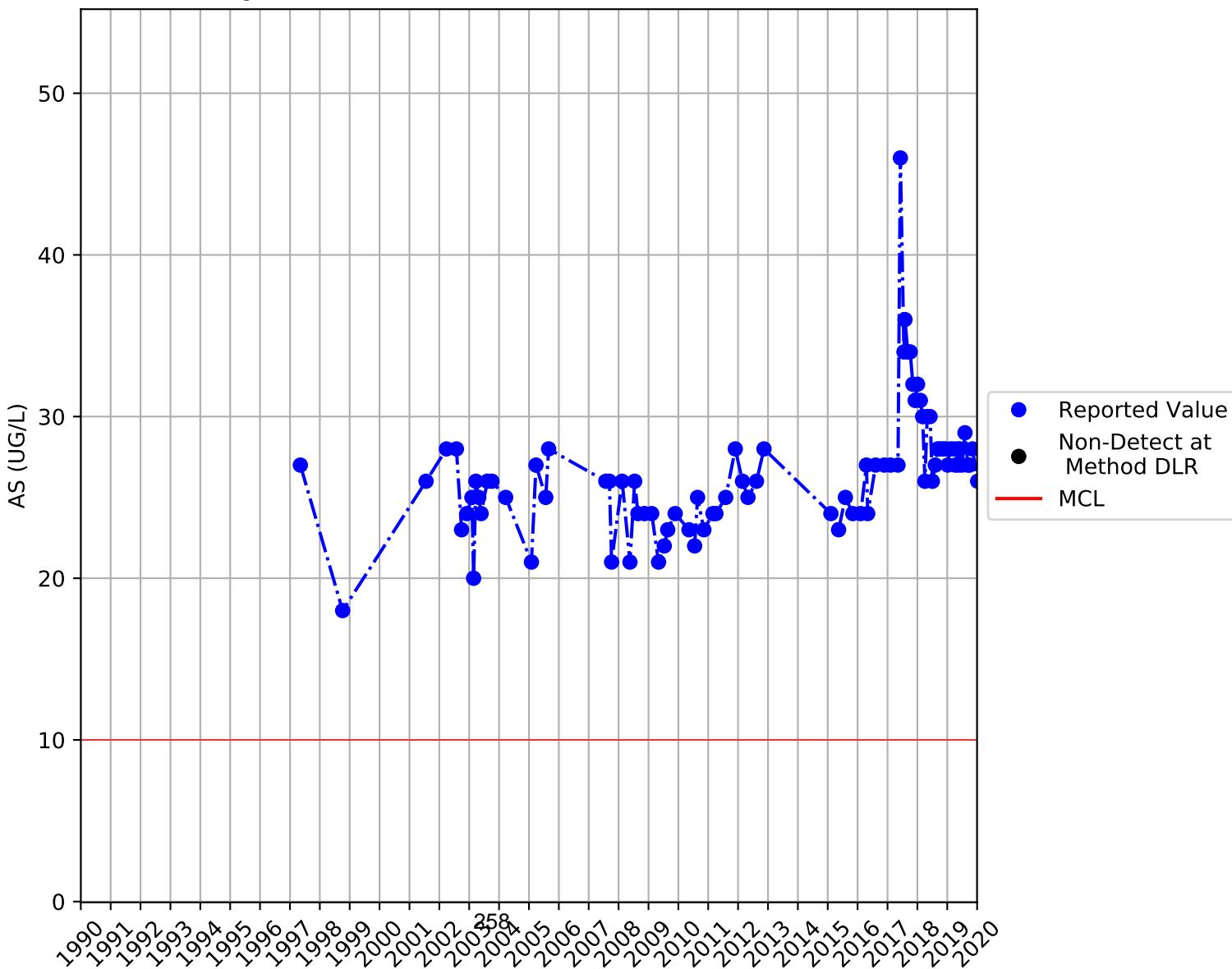
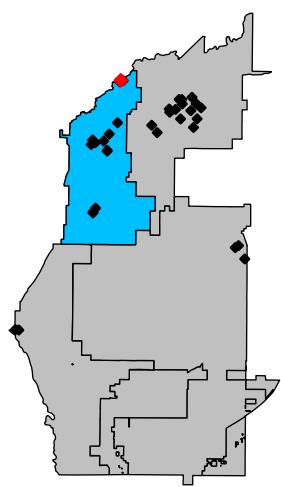
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1610005-007 WELL 08 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



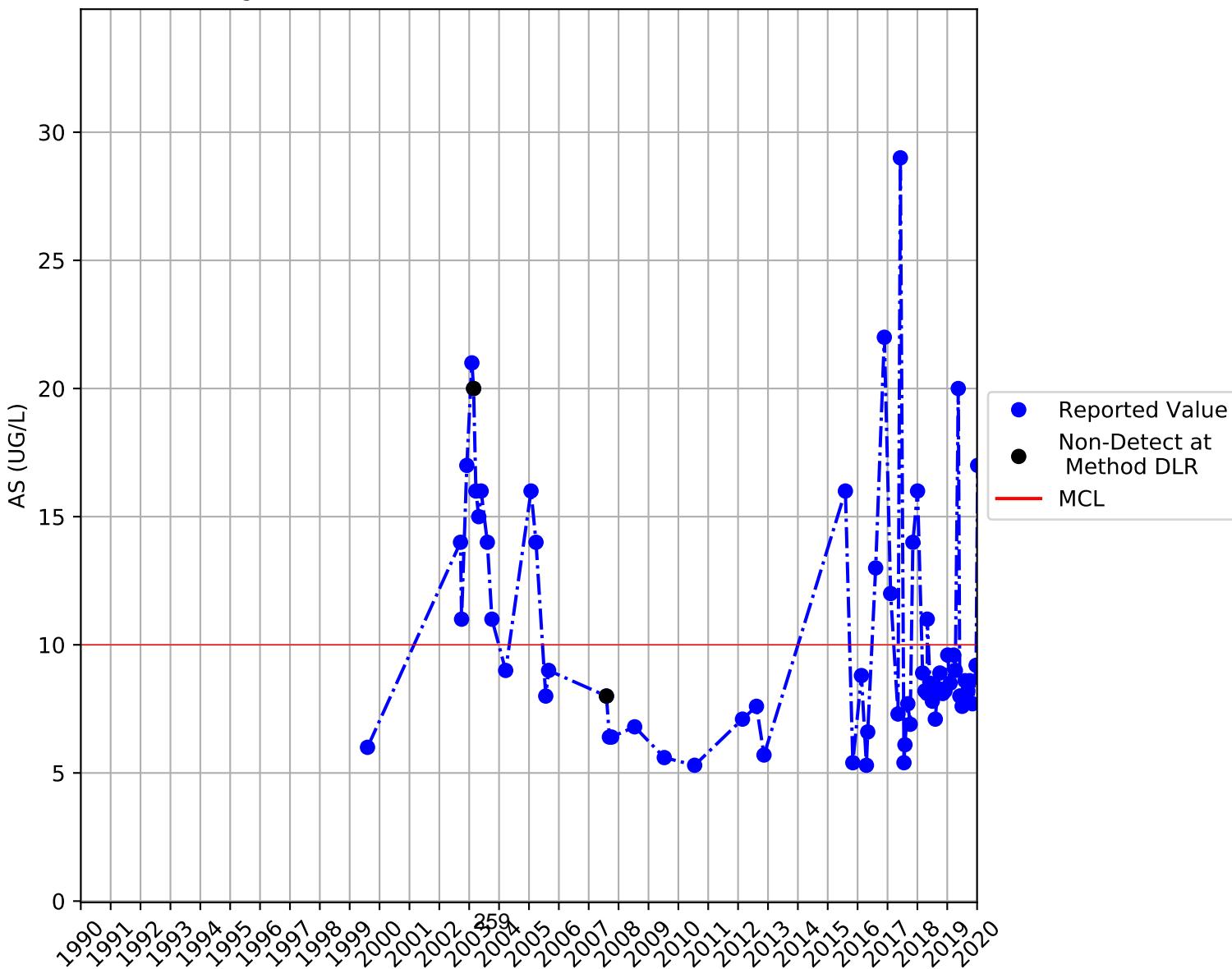
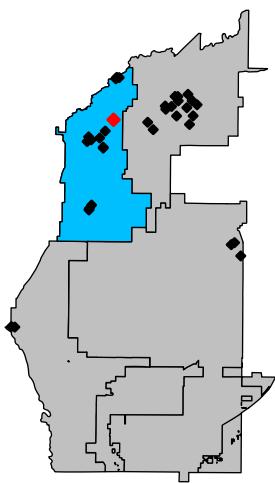
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South Fork Kings GSA



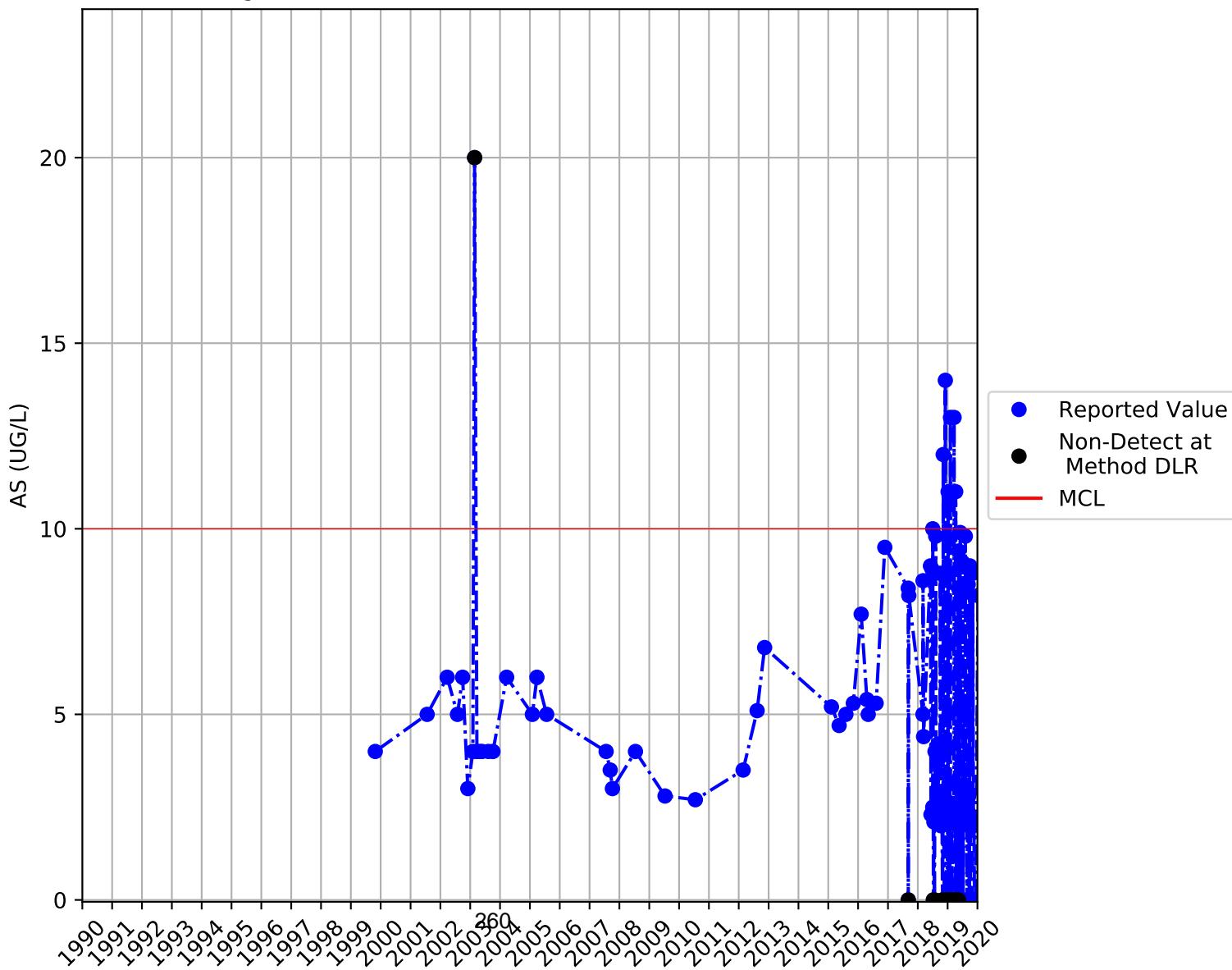
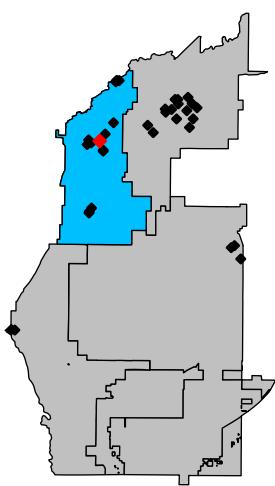
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South Fork Kings GSA



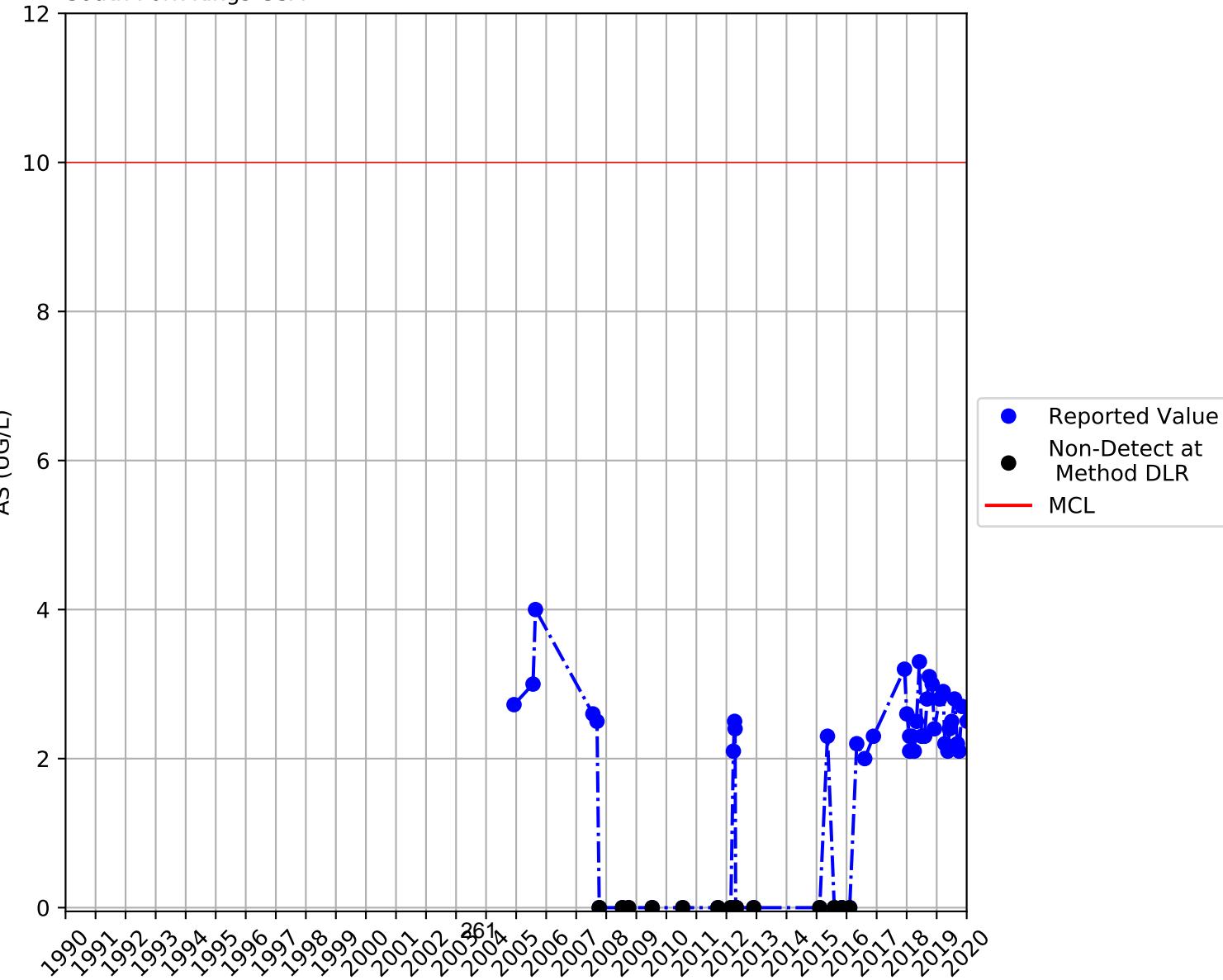
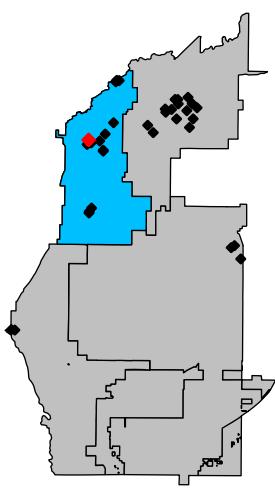
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South Fork Kings GSA



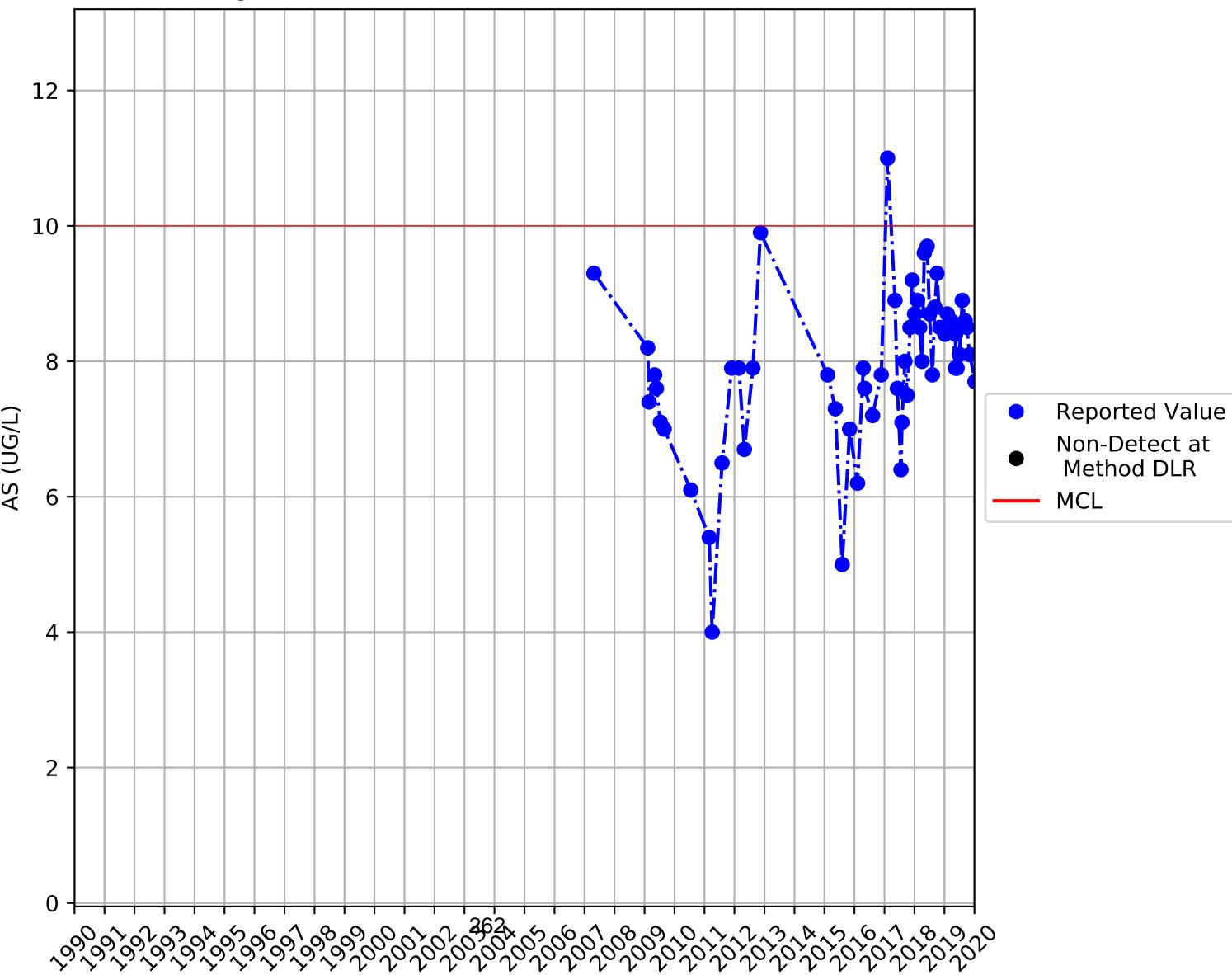
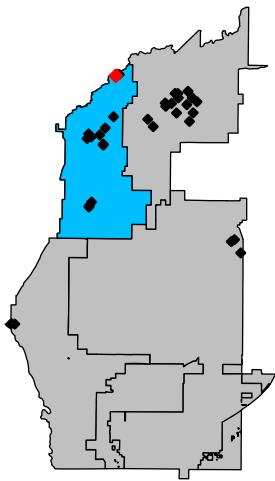
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South Fork Kings GSA



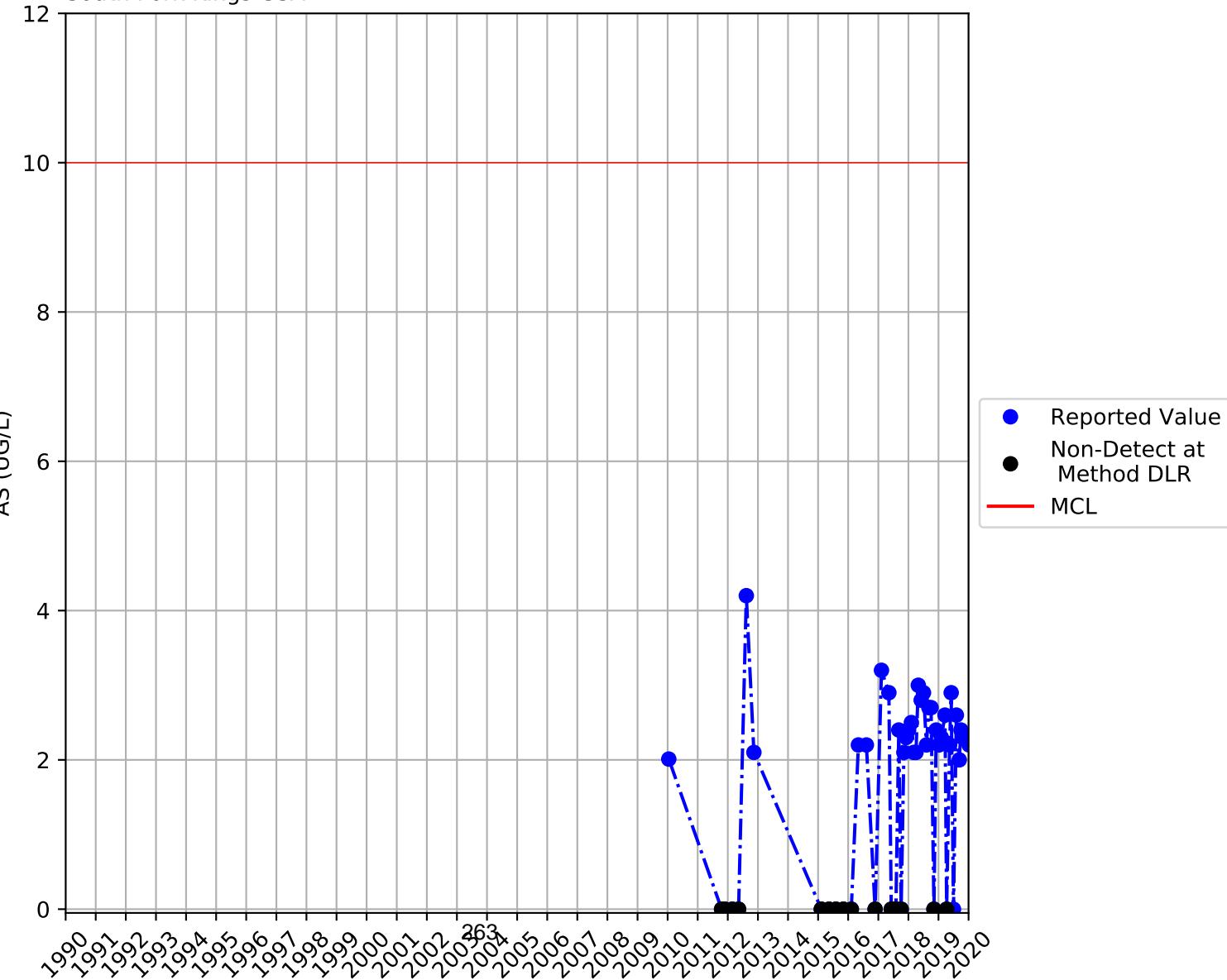
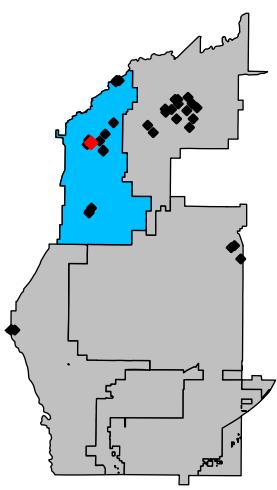
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South Fork Kings GSA



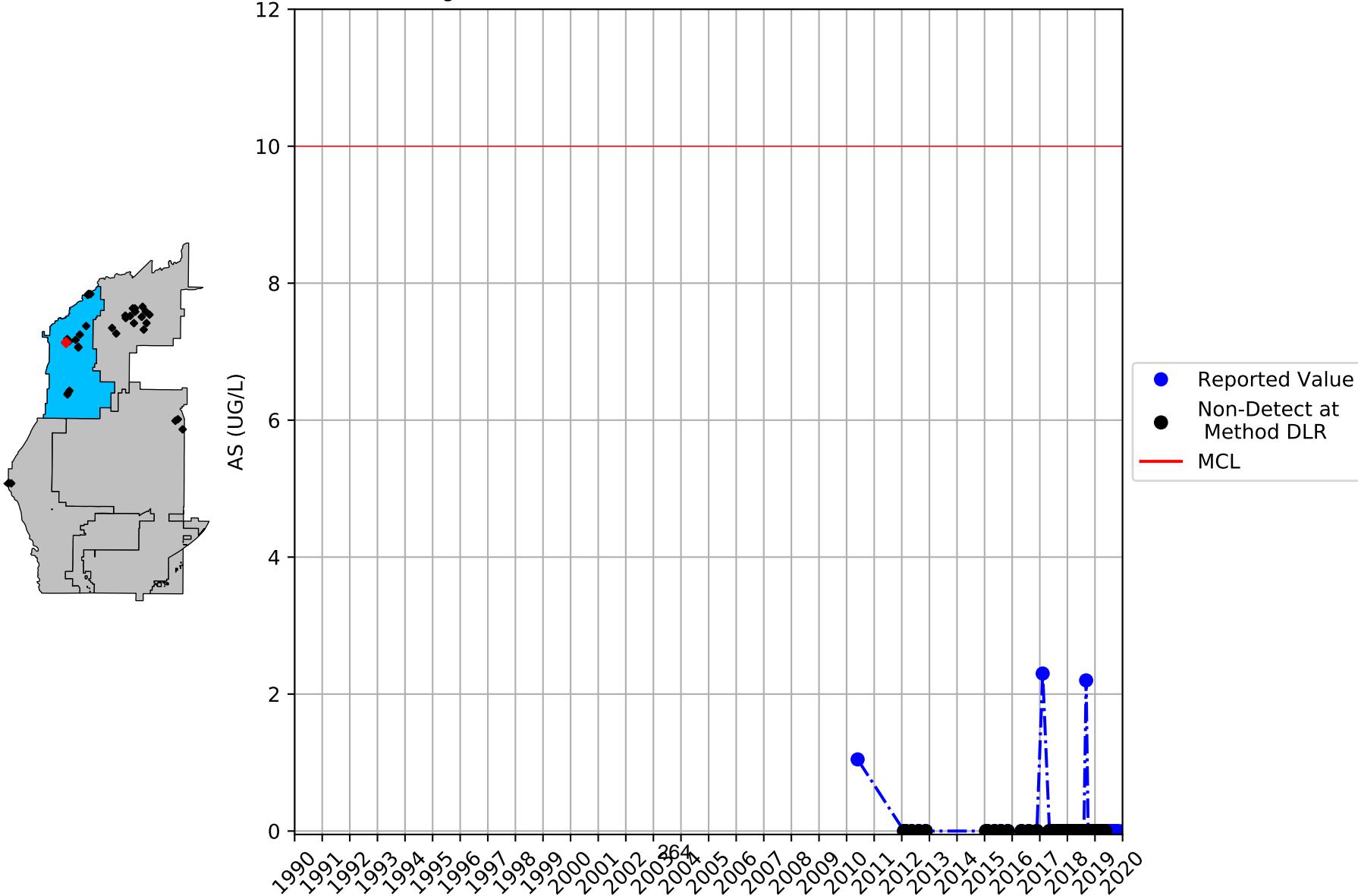
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South Fork Kings GSA



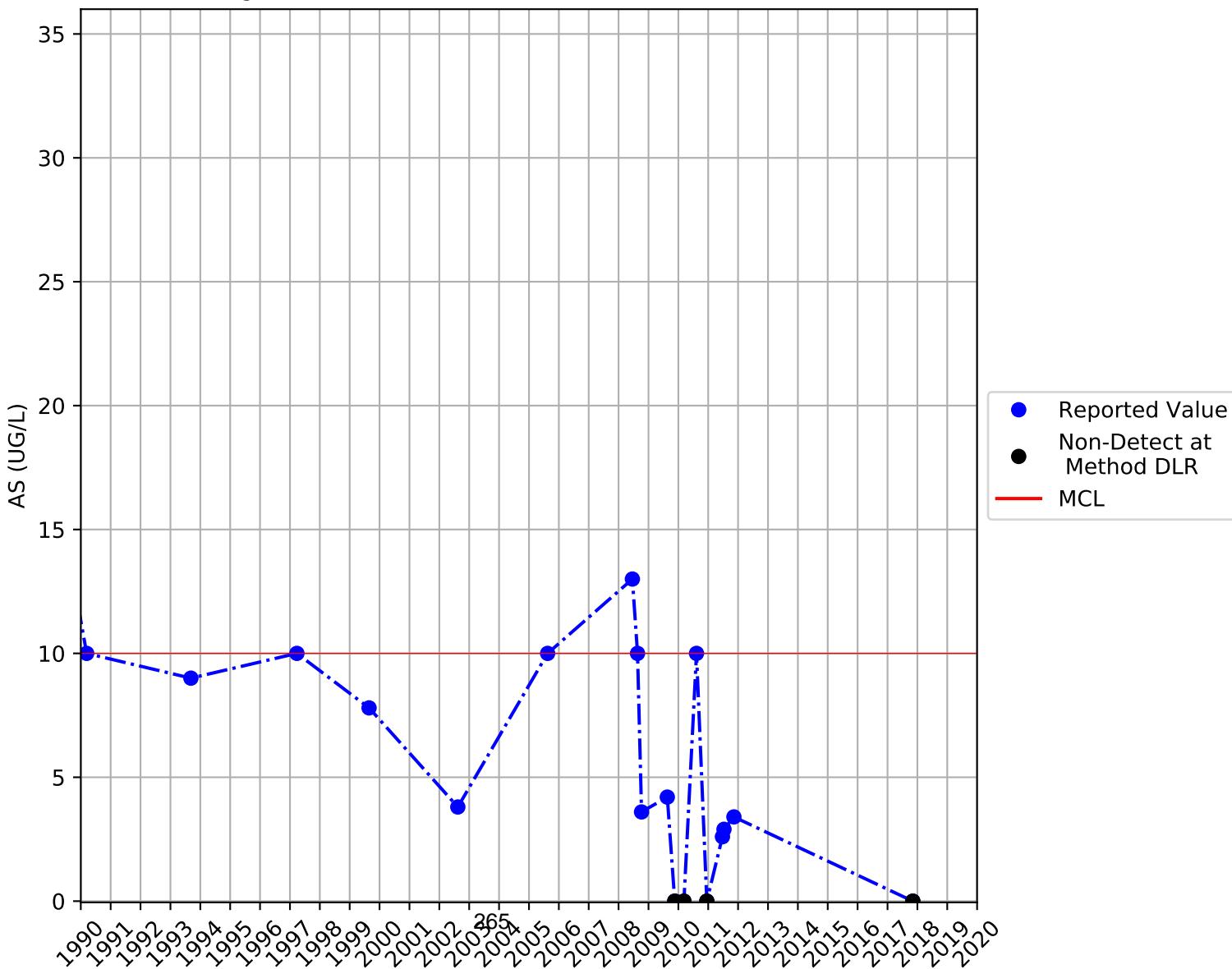
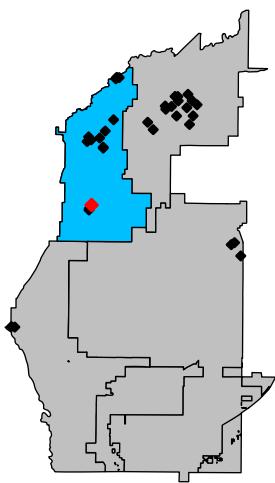
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South Fork Kings GSA



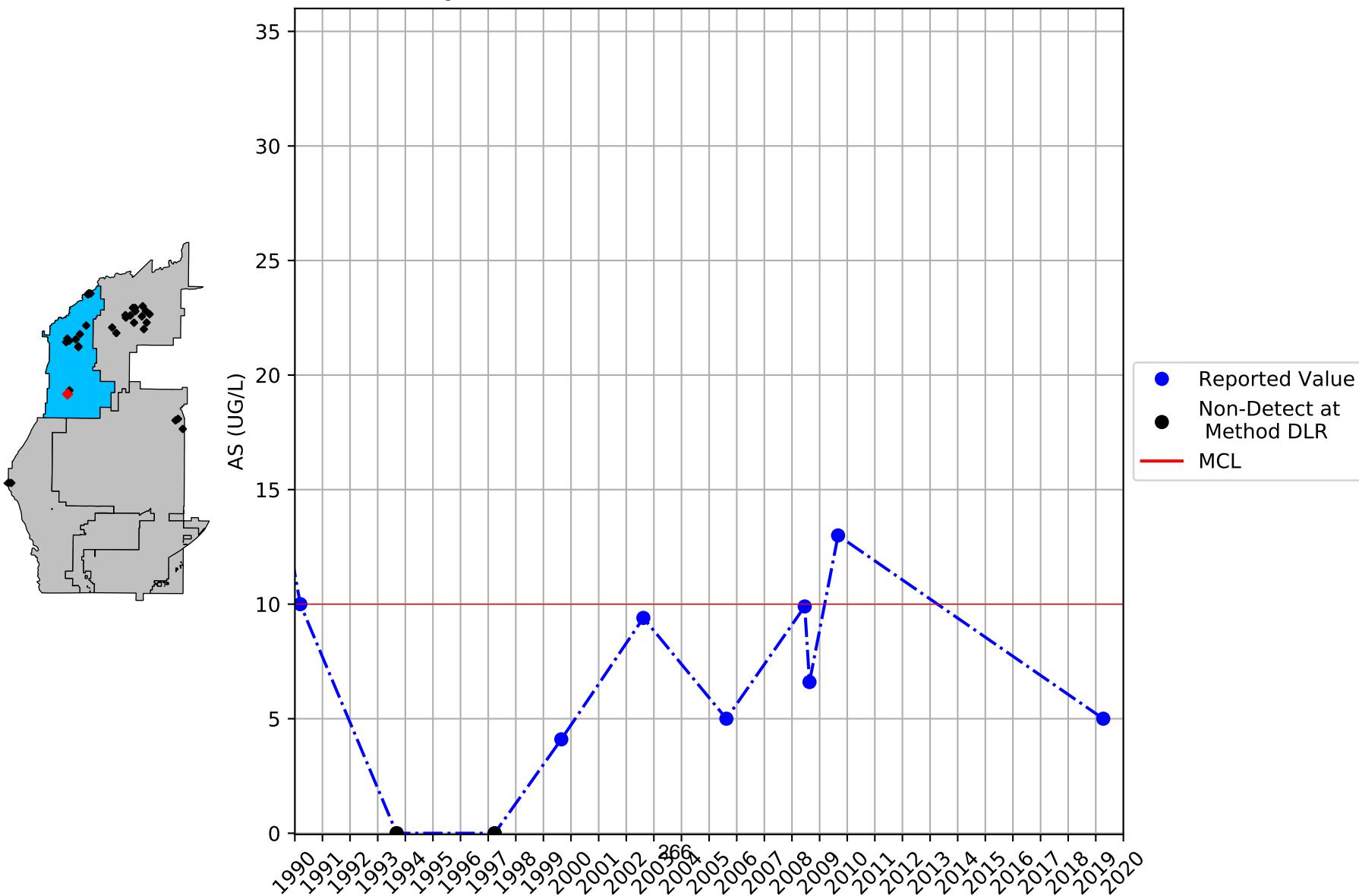
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South Fork Kings GSA



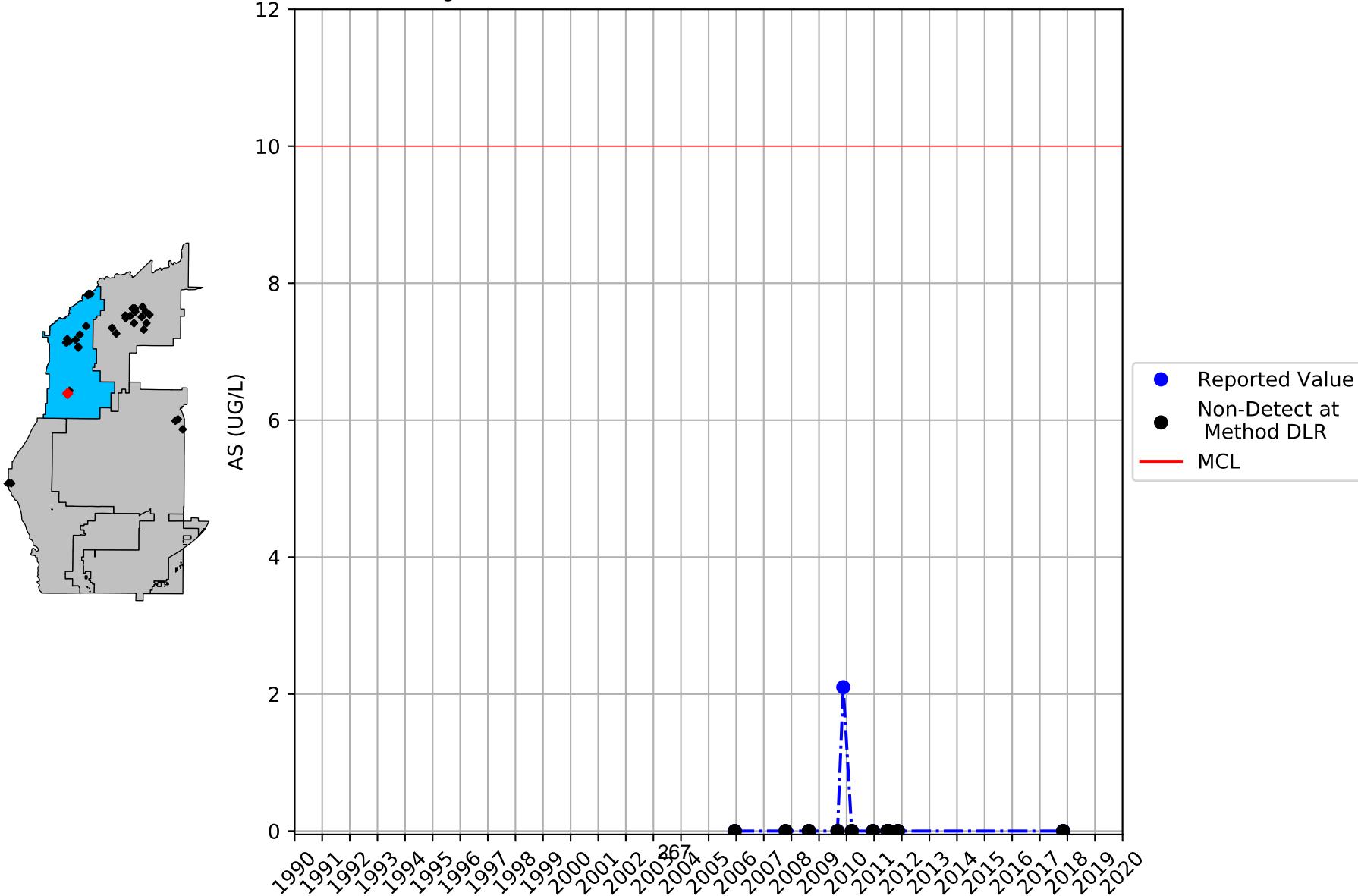
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South Fork Kings GSA



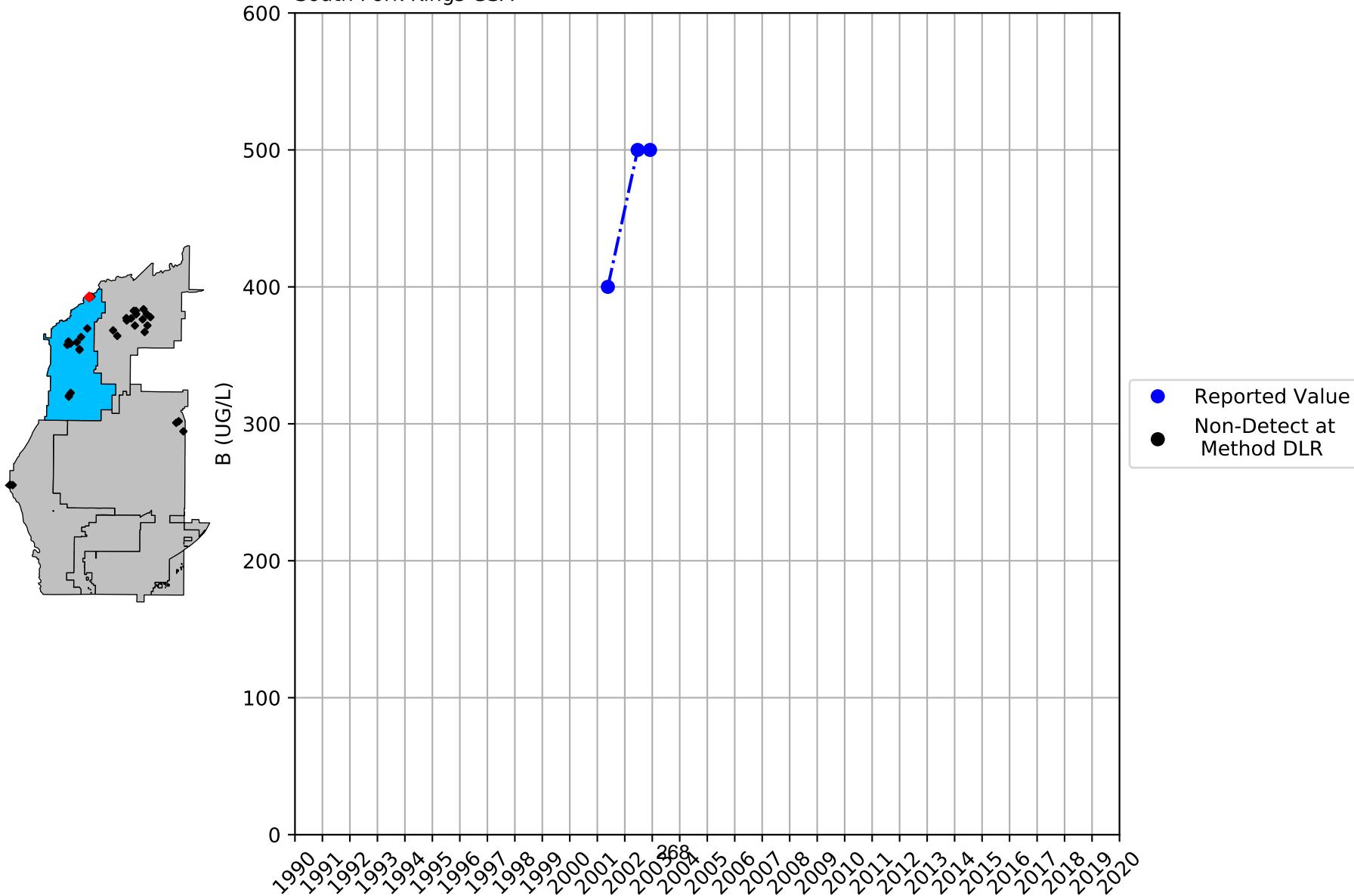
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South Fork Kings GSA



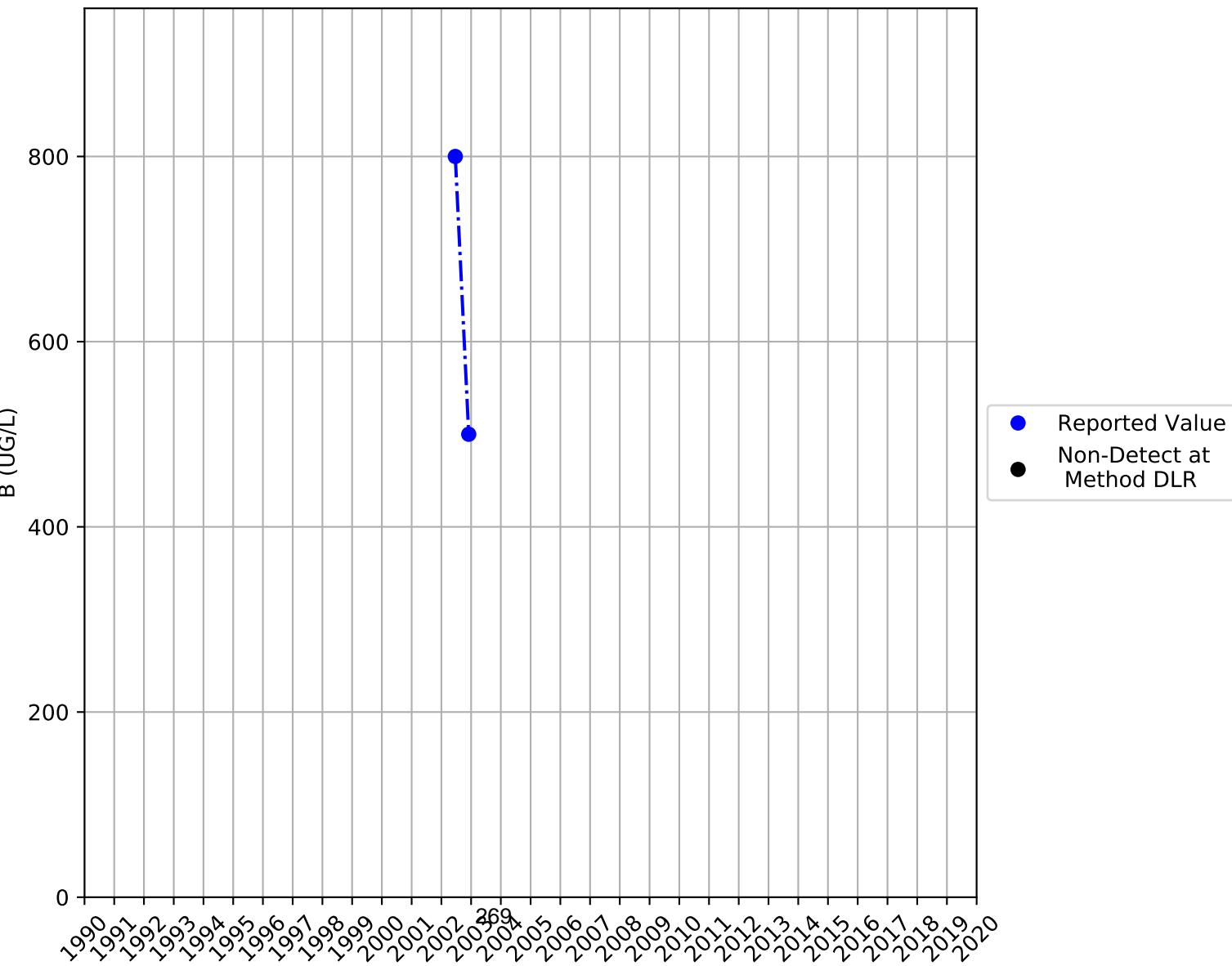
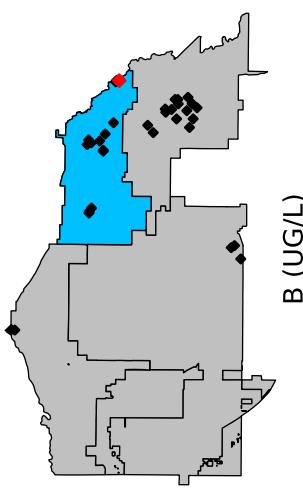
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South Fork Kings GSA



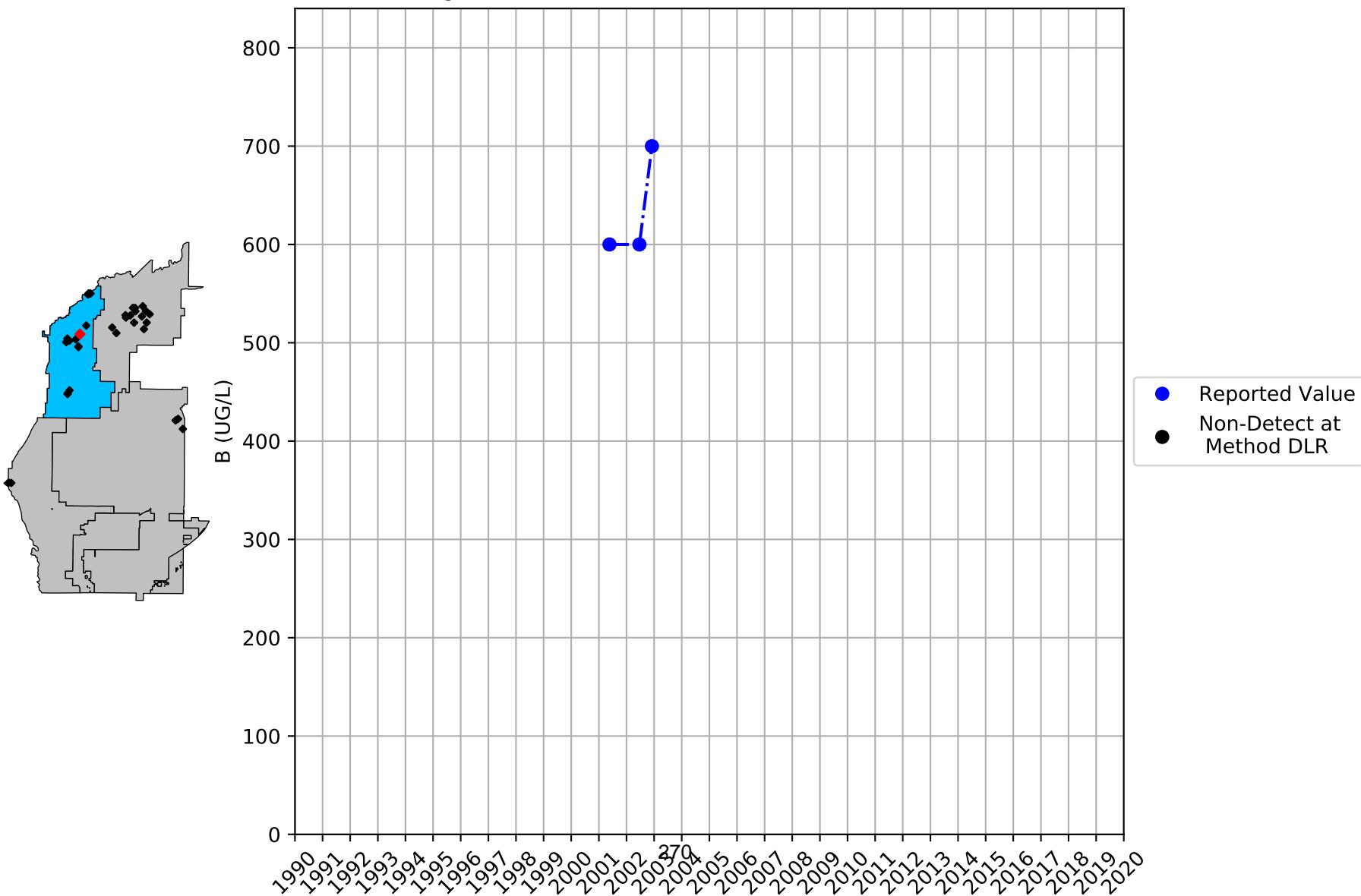
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South Fork Kings GSA



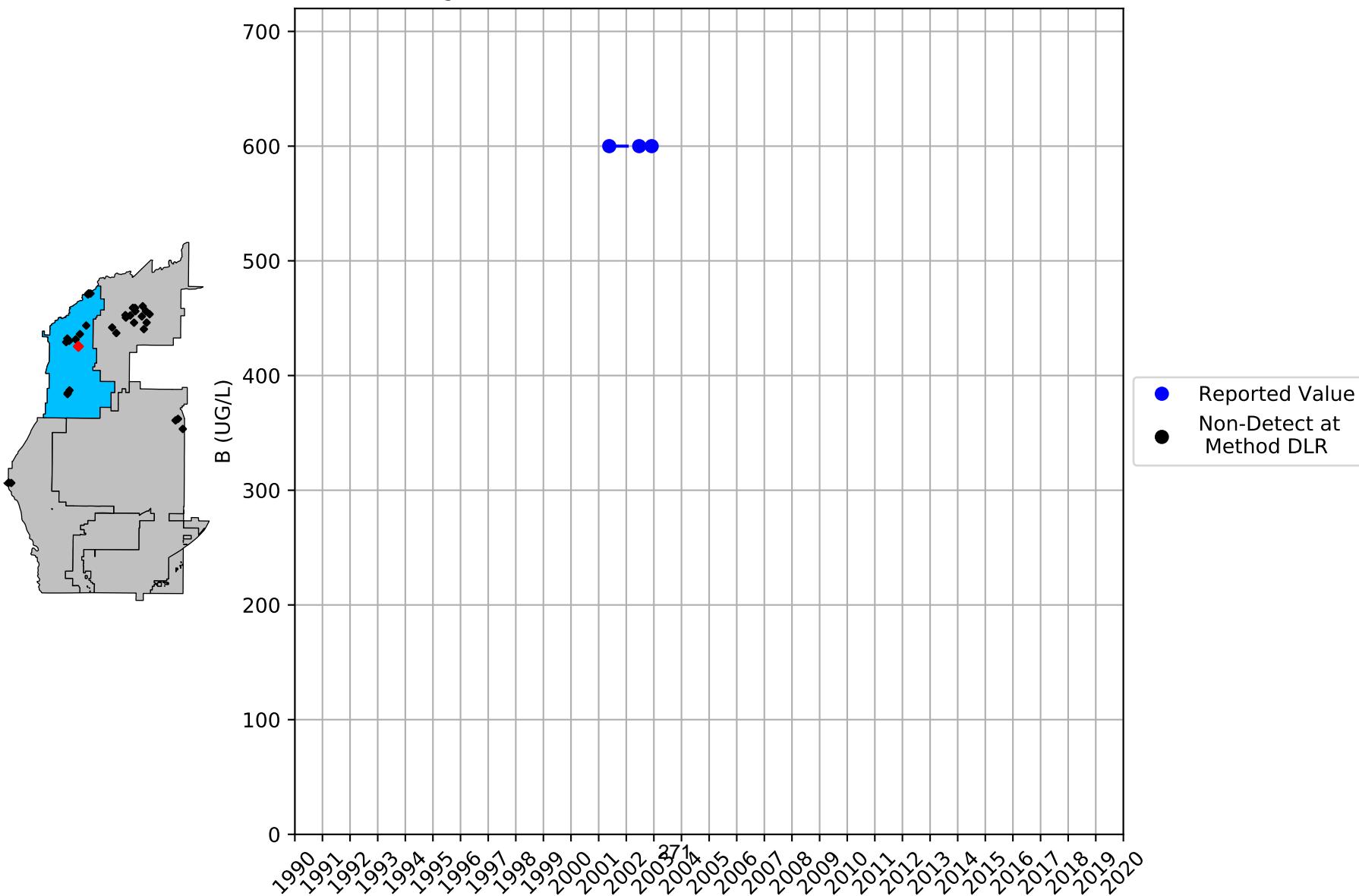
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South Fork Kings GSA



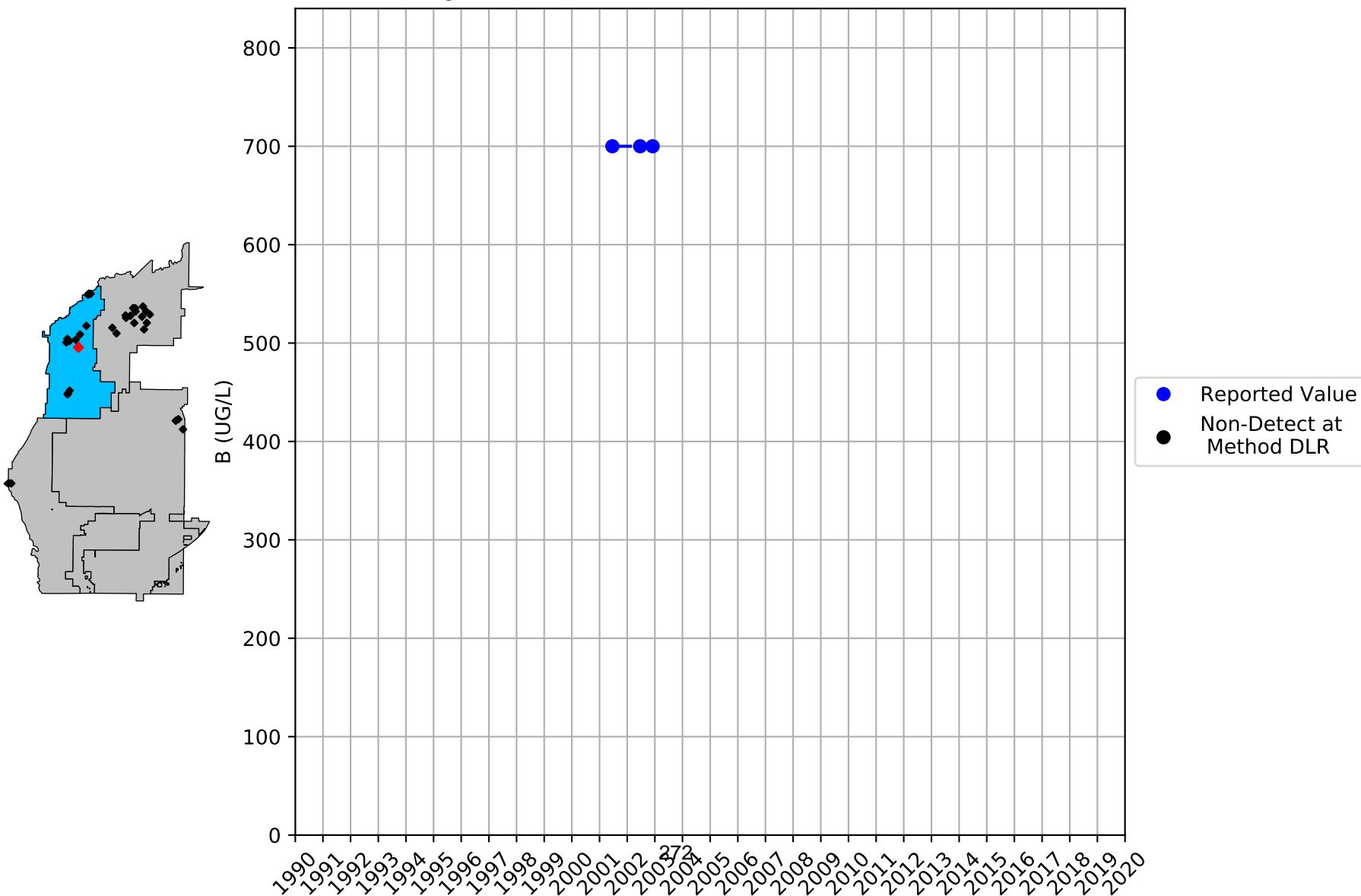
BORON
1610005-006 WELL 10 - RAW
South Fork Kings GSA



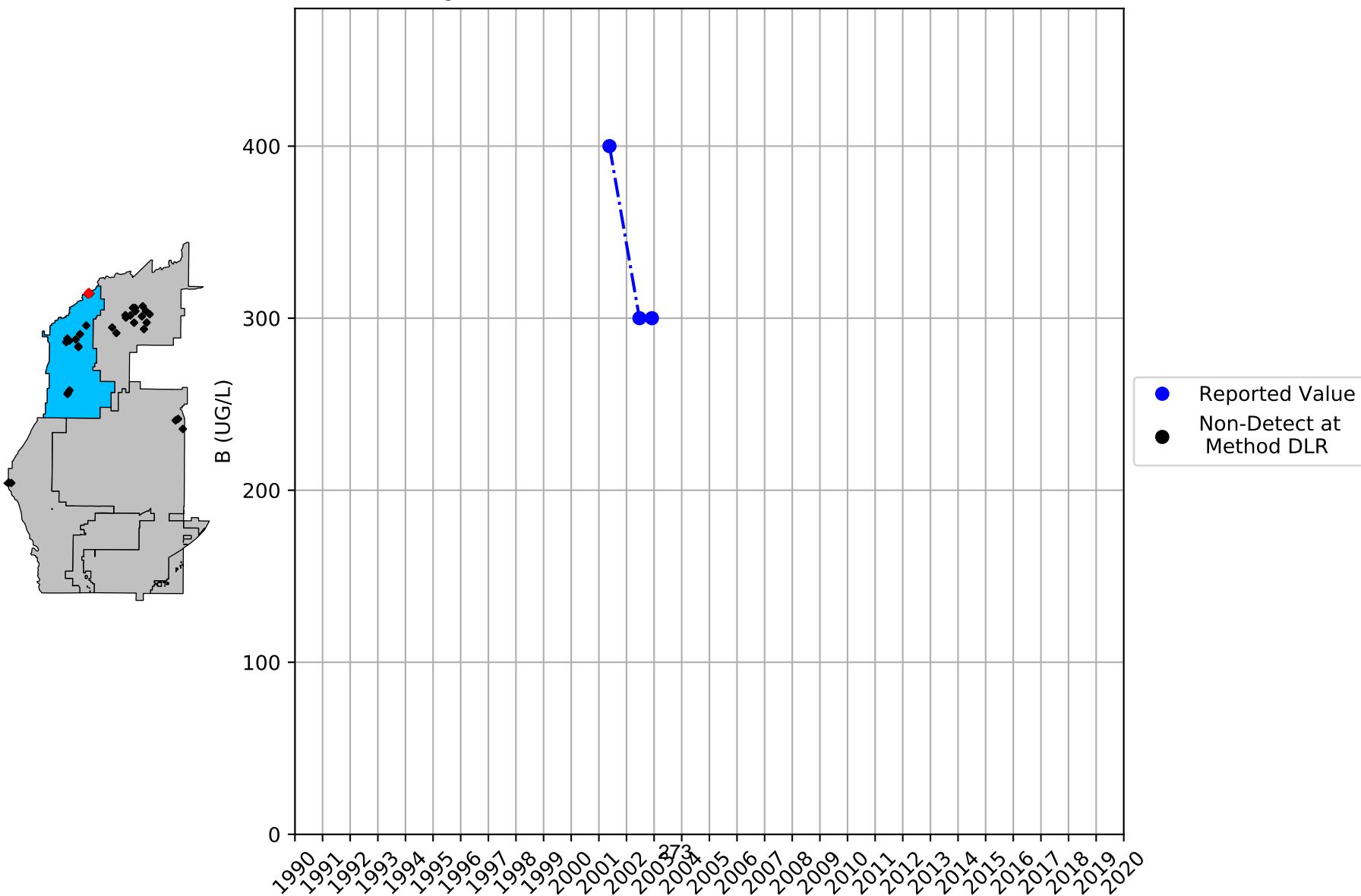
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1610005-007 WELL 08 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



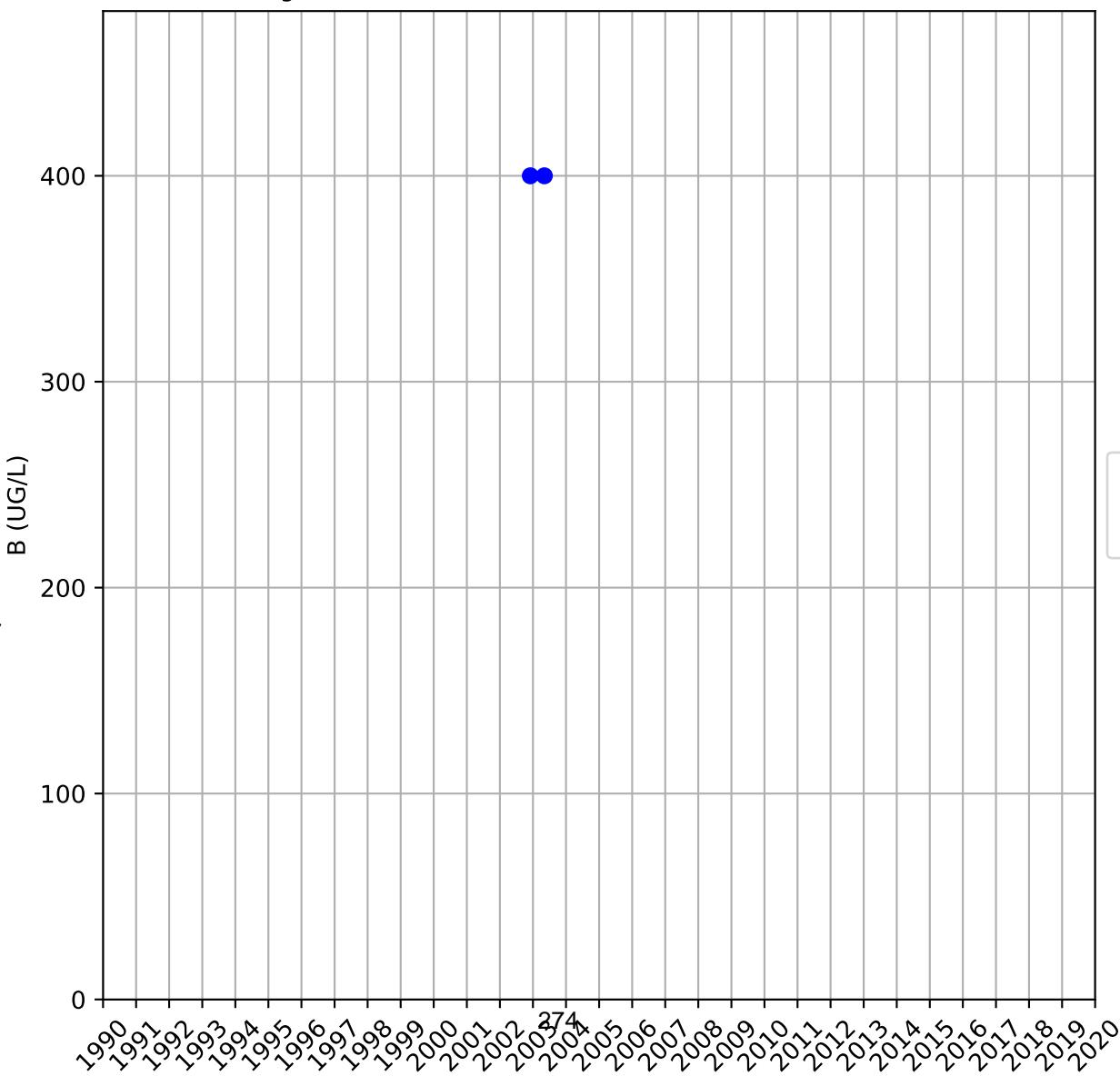
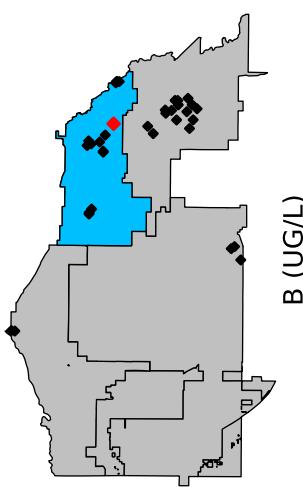
BORON
1610005-008 WELL 09 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



BORON
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South Fork Kings GSA

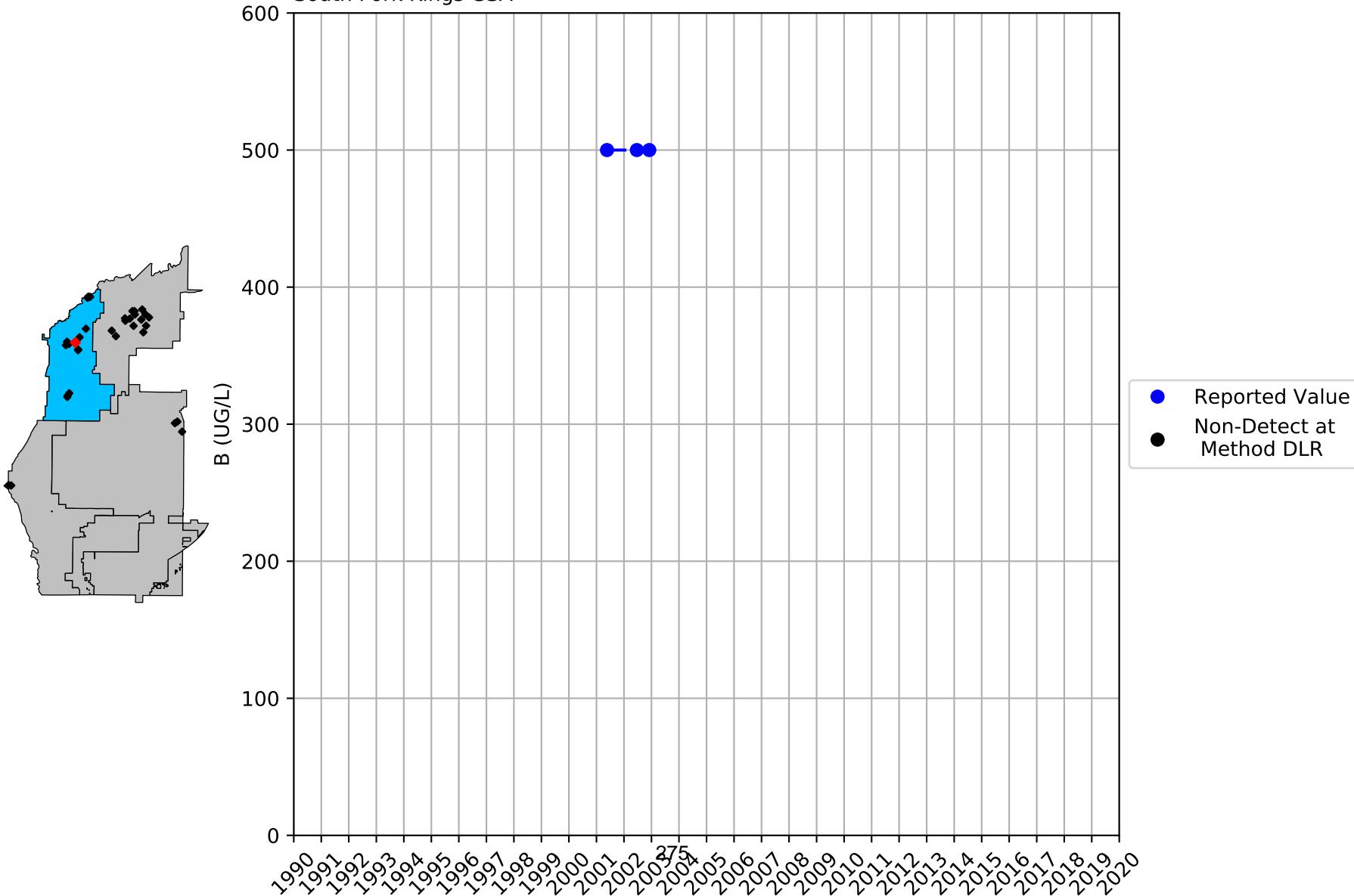


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South Fork Kings GSA

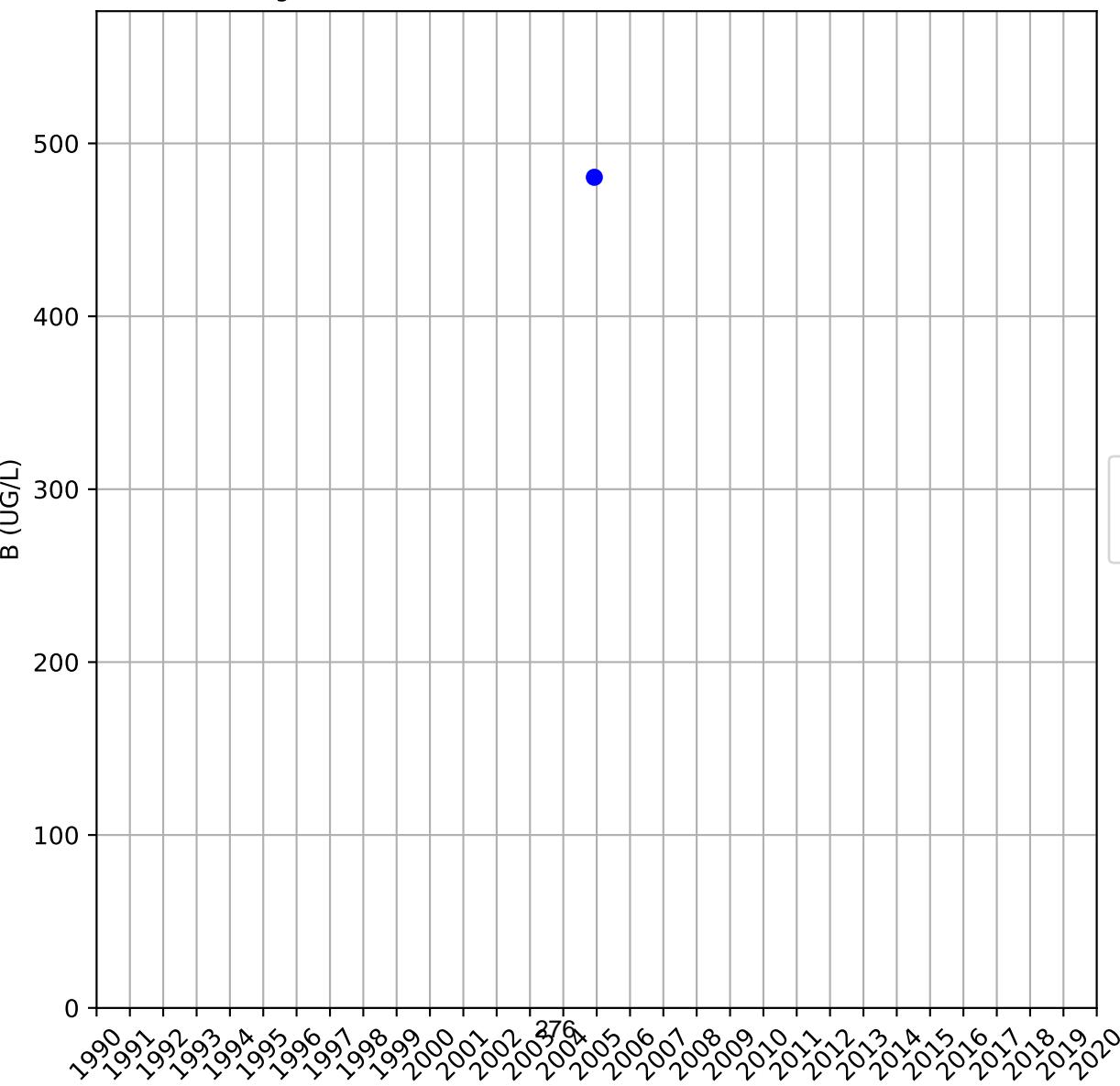
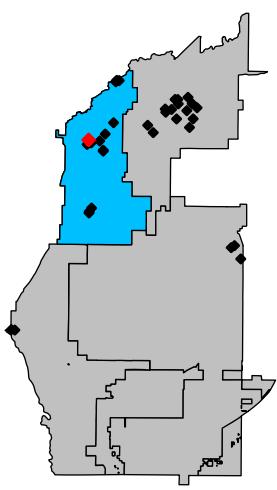


Reported Value
Non-Detect at
Method DLR

BORON
1610005-011 WELL 12 - RAW
South Fork Kings GSA

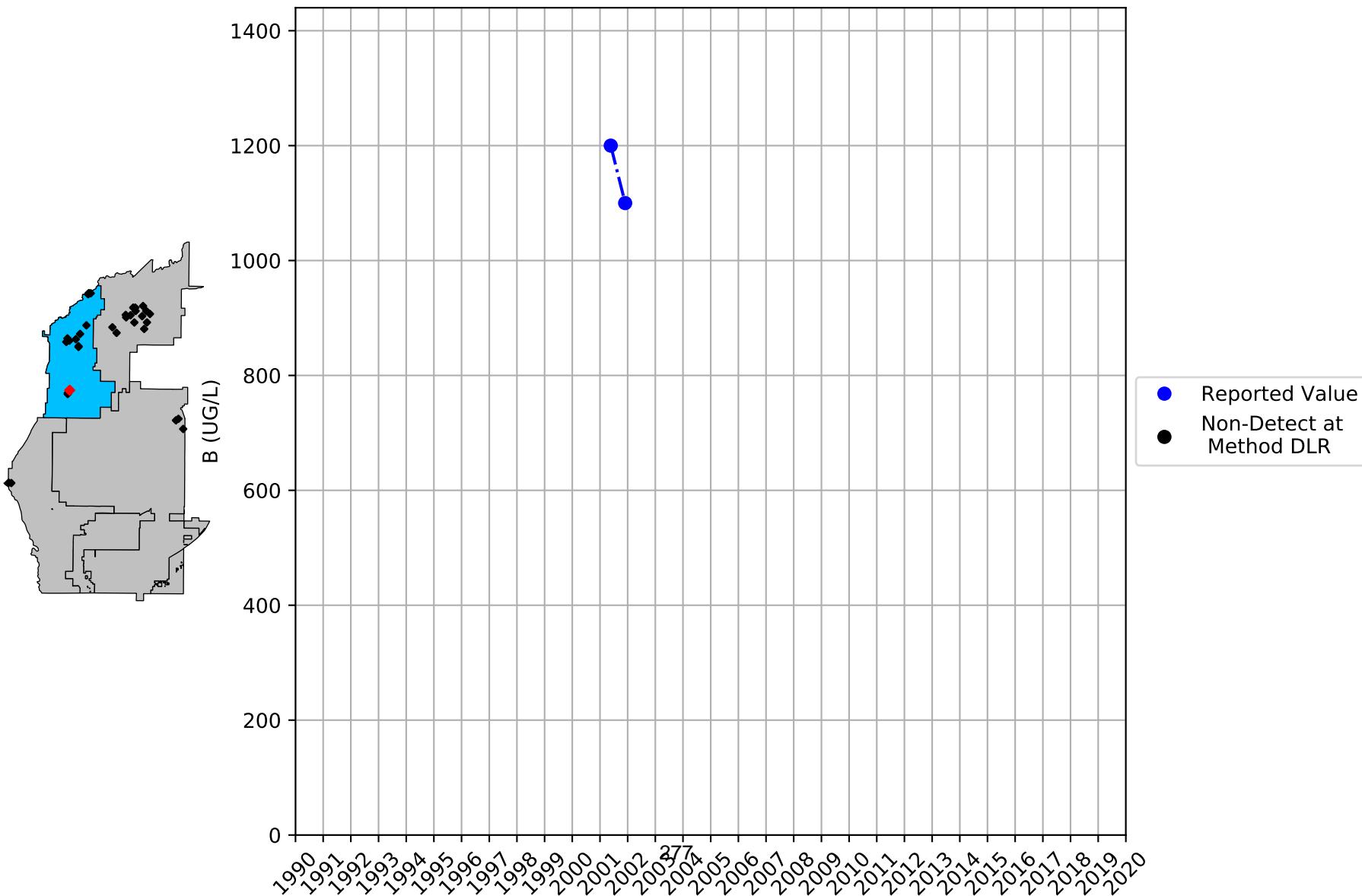


BORON
1610005-018 WELL 07 - RAW
South Fork Kings GSA

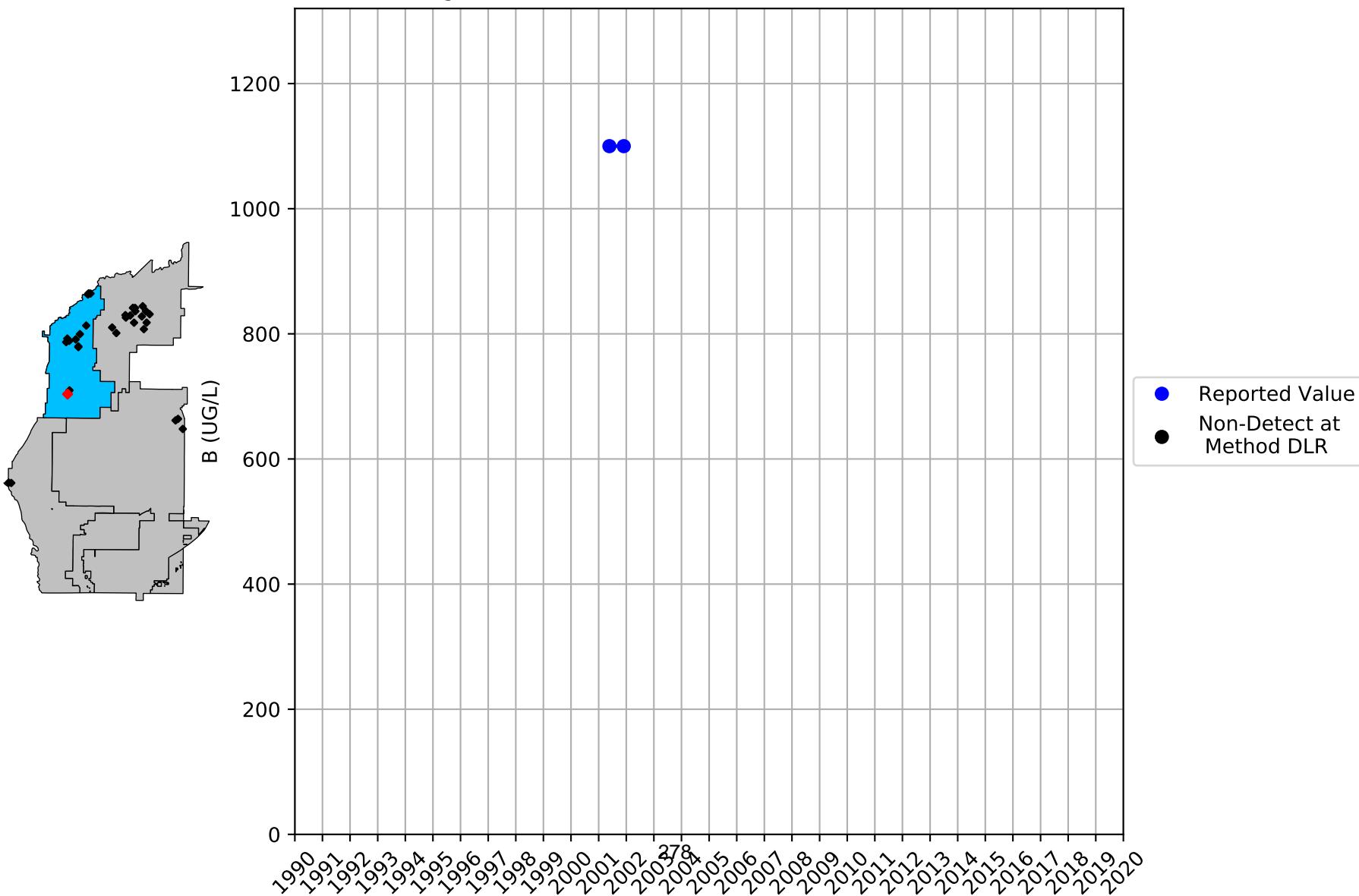


● Reported Value
● Non-Detect at Method DLR

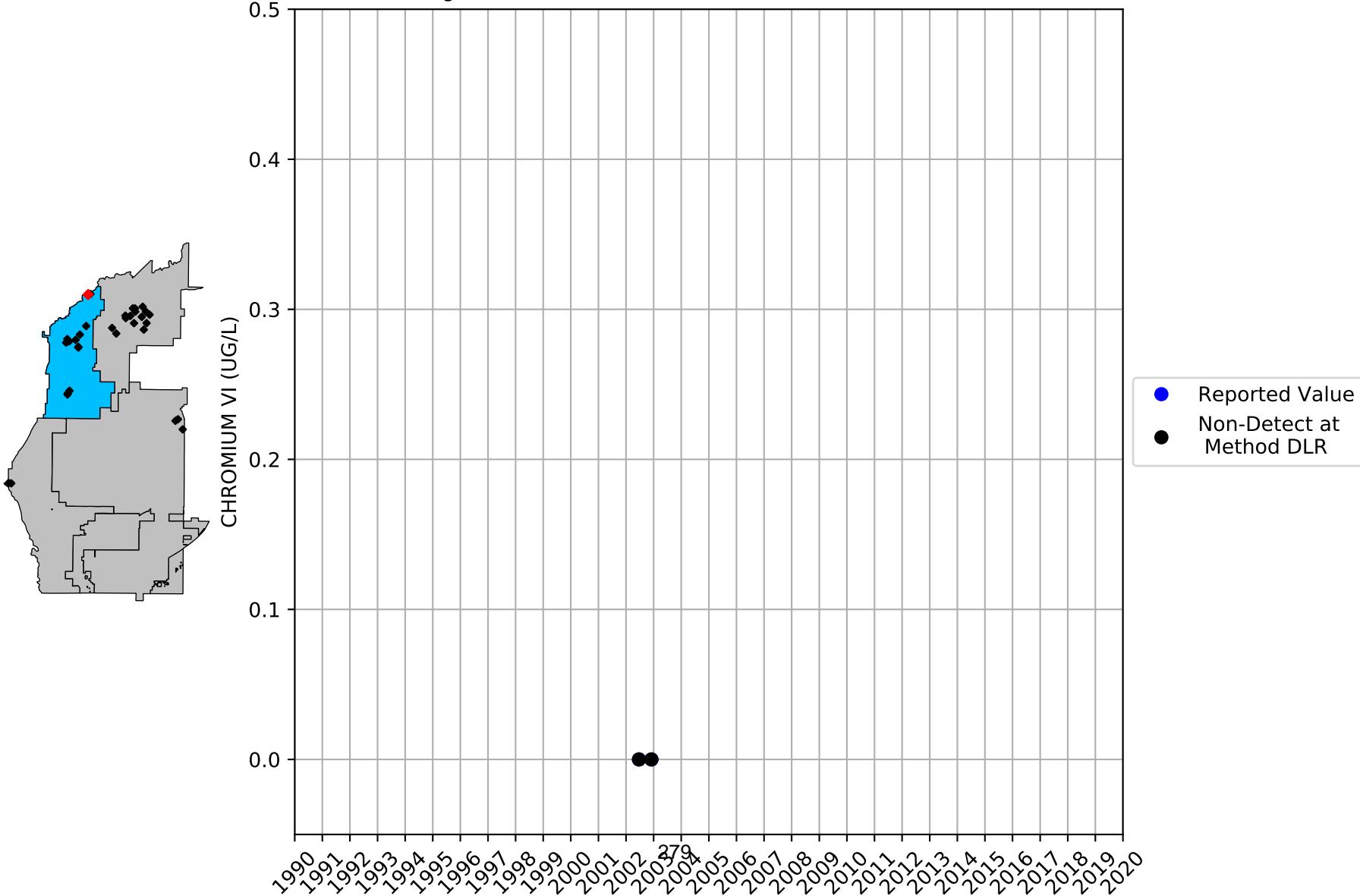
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South Fork Kings GSA



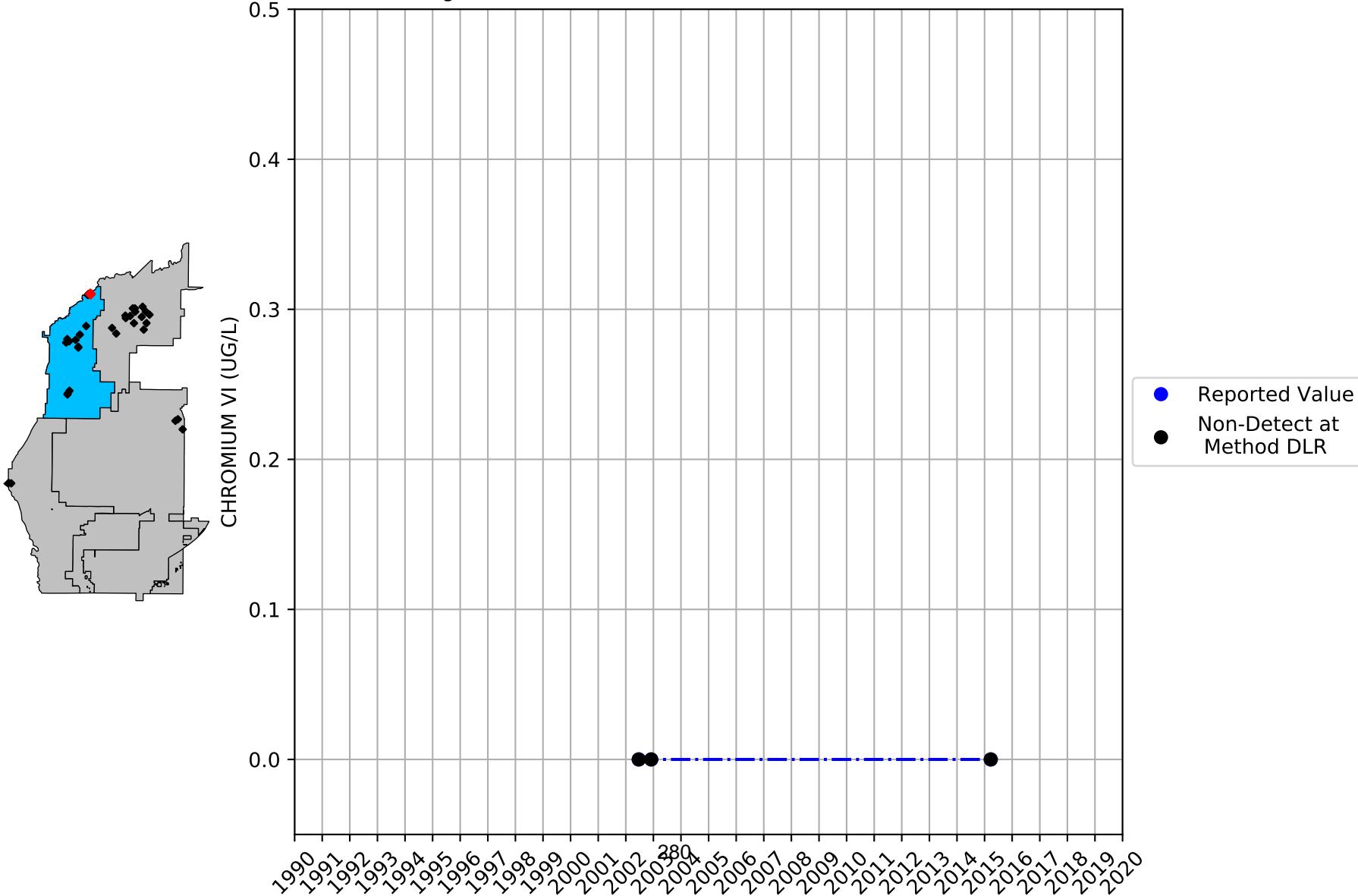
BORON
1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



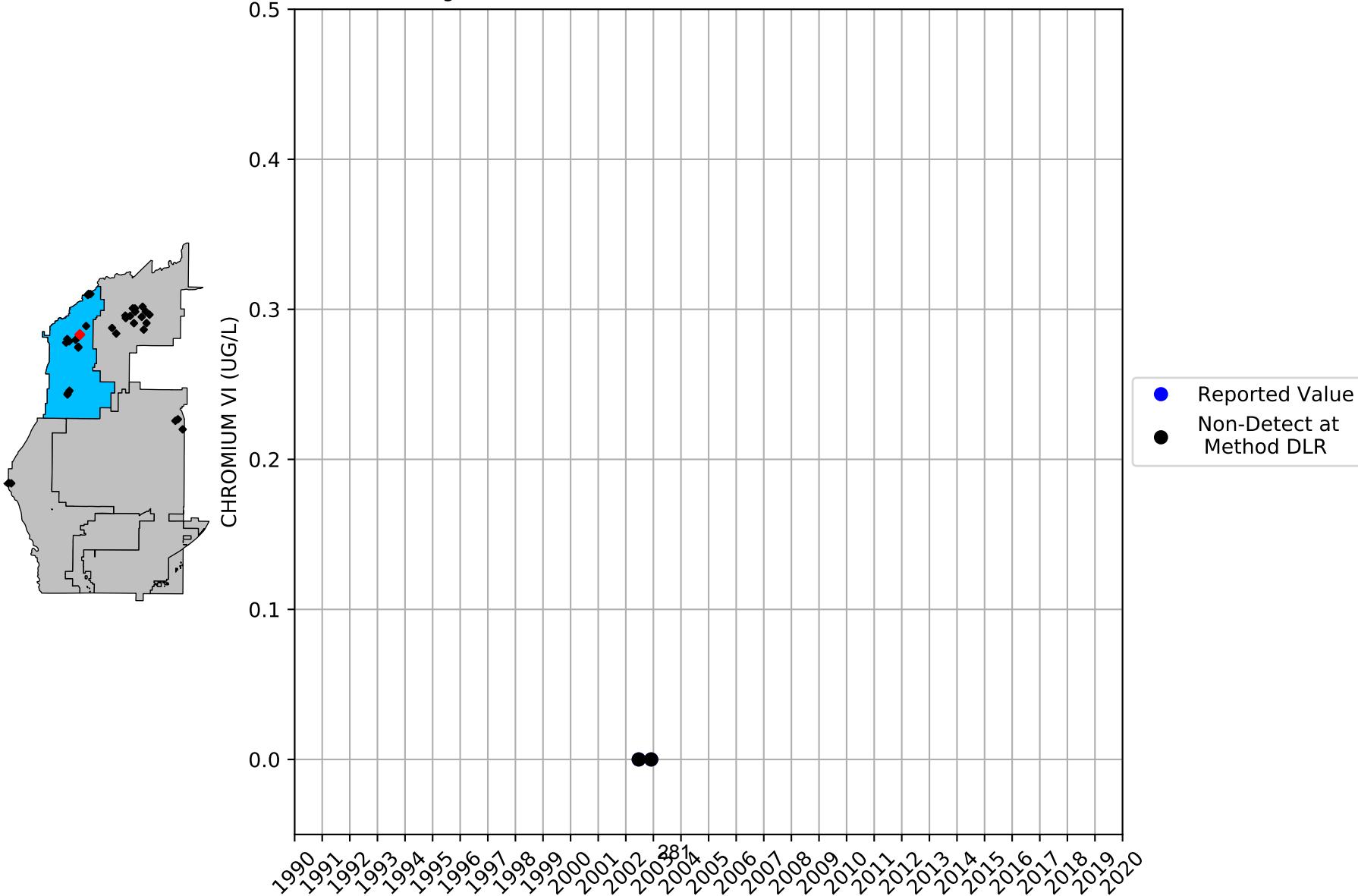
CHROMIUM, HEXAVALENT
1610005-003 WELL N-2 - RAW
South Fork Kings GSA



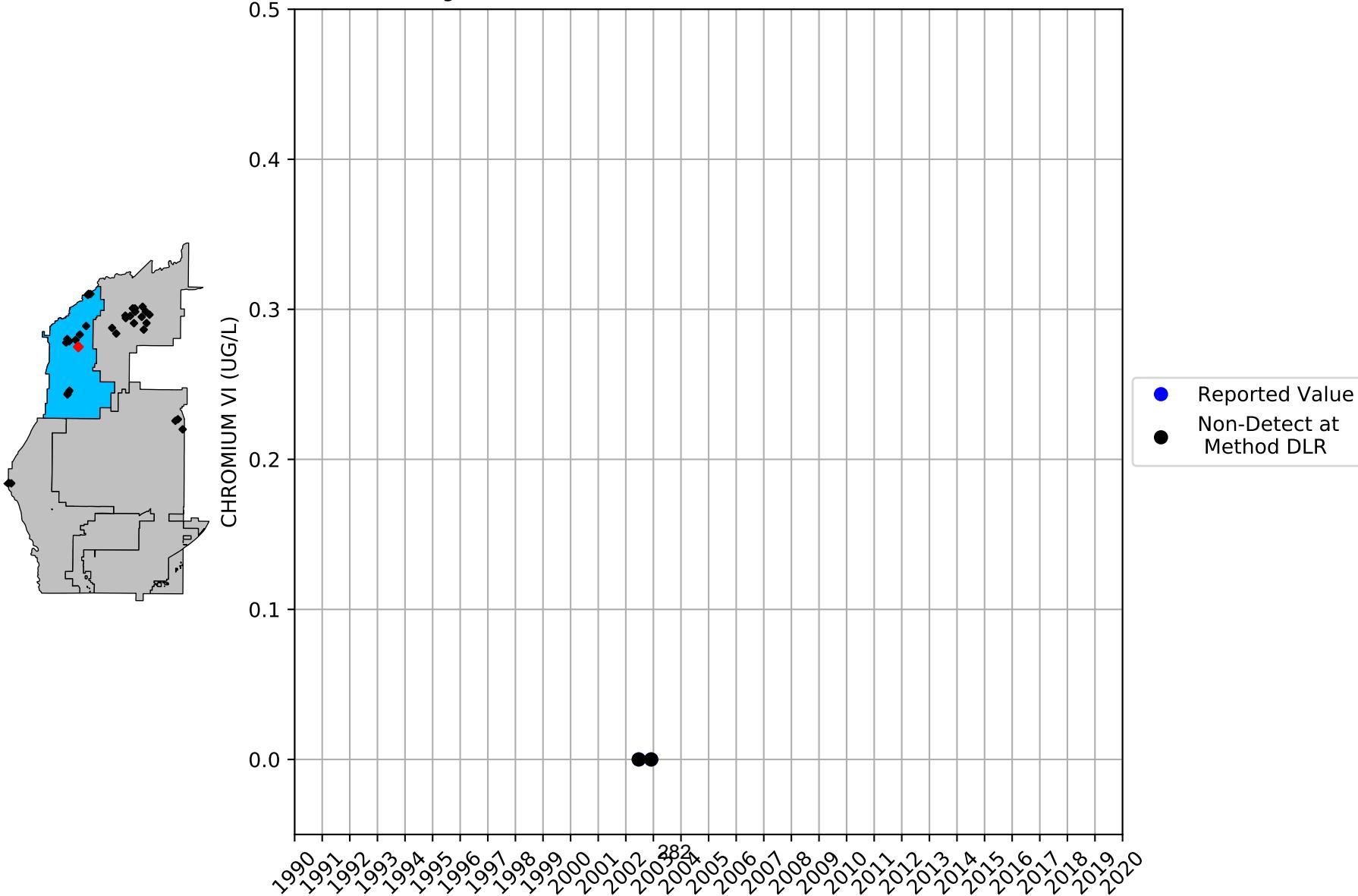
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South Fork Kings GSA



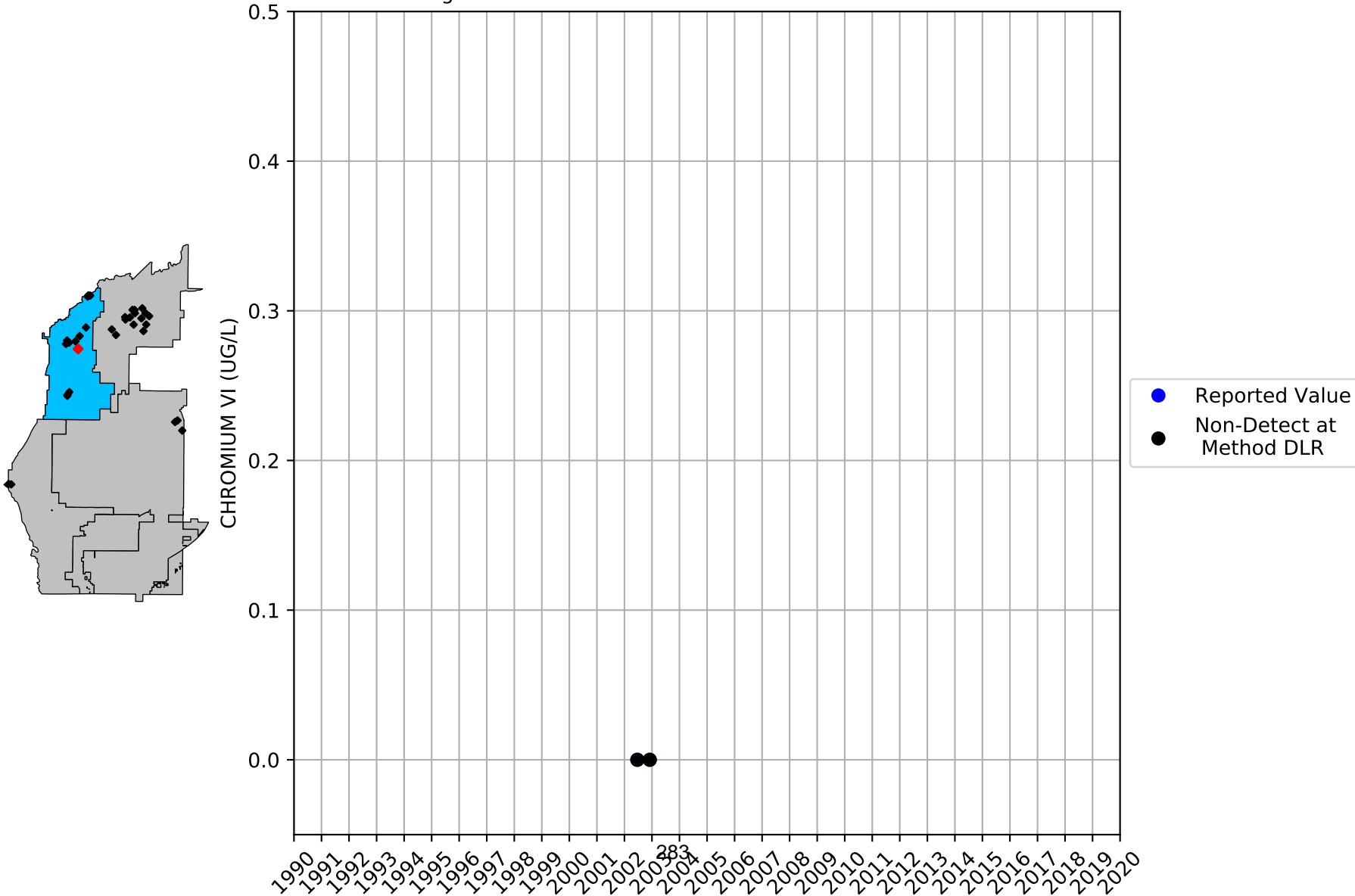
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South Fork Kings GSA



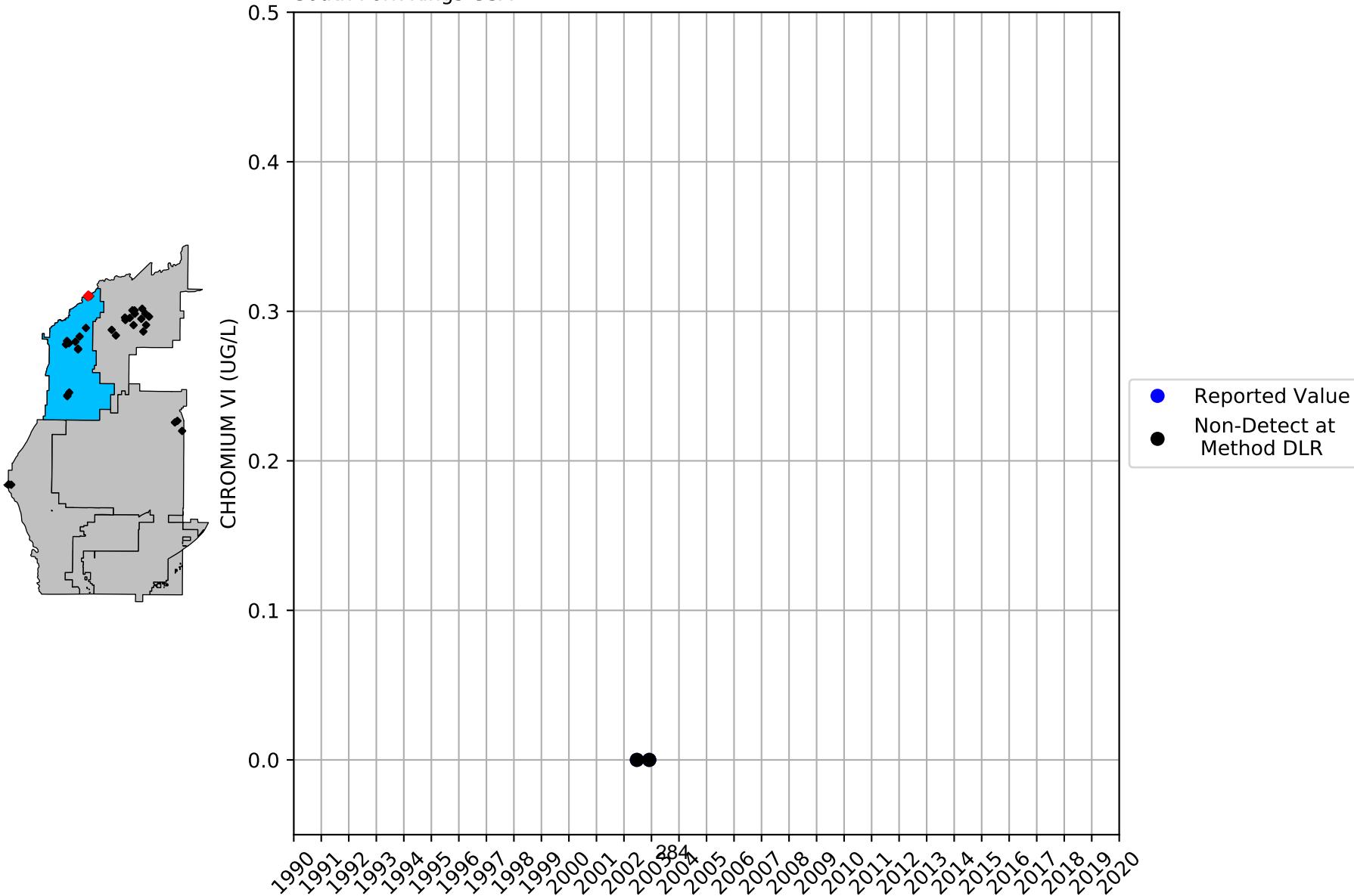
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1610005-007 WELL 08 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



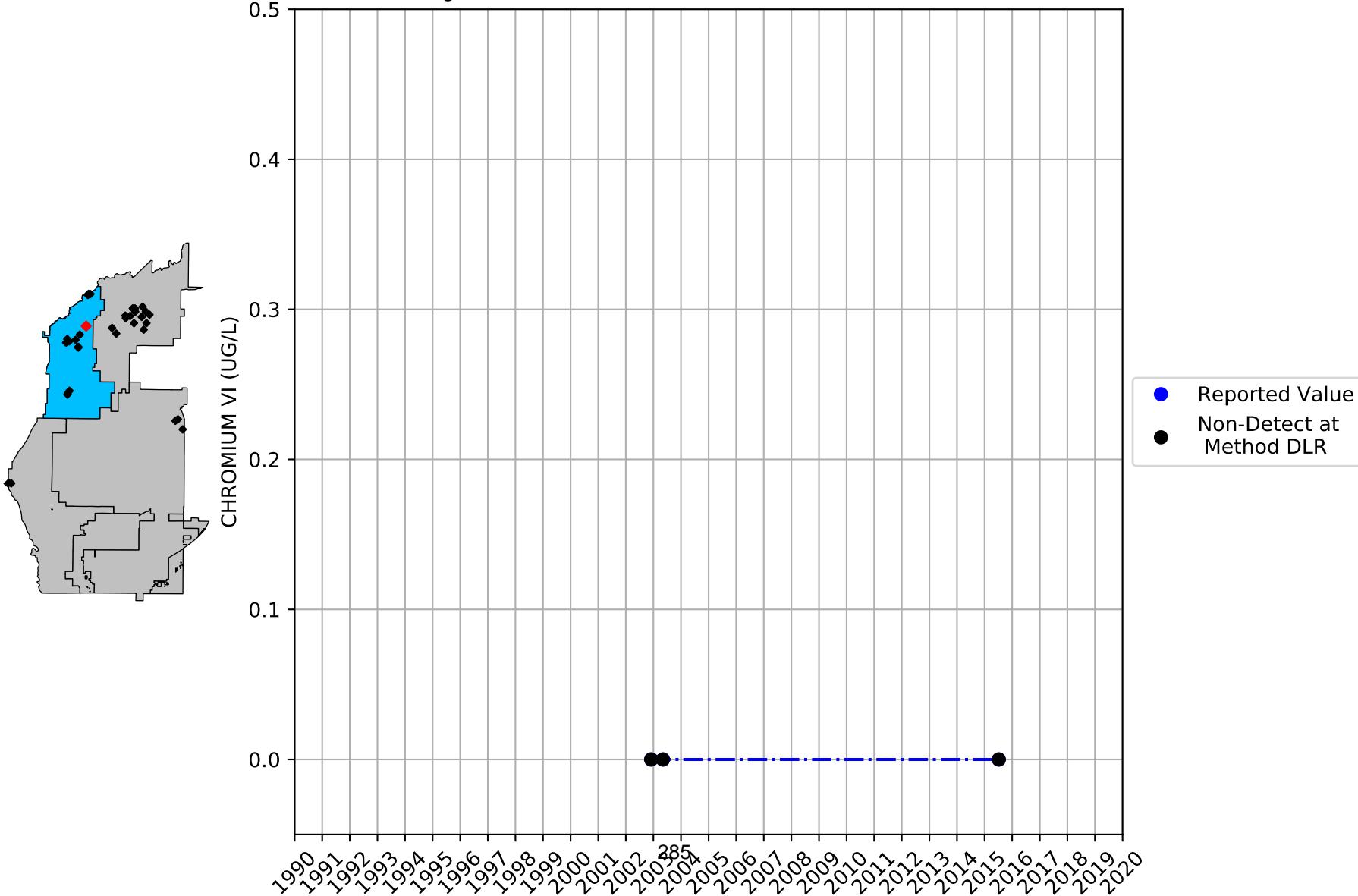
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South Fork Kings GSA



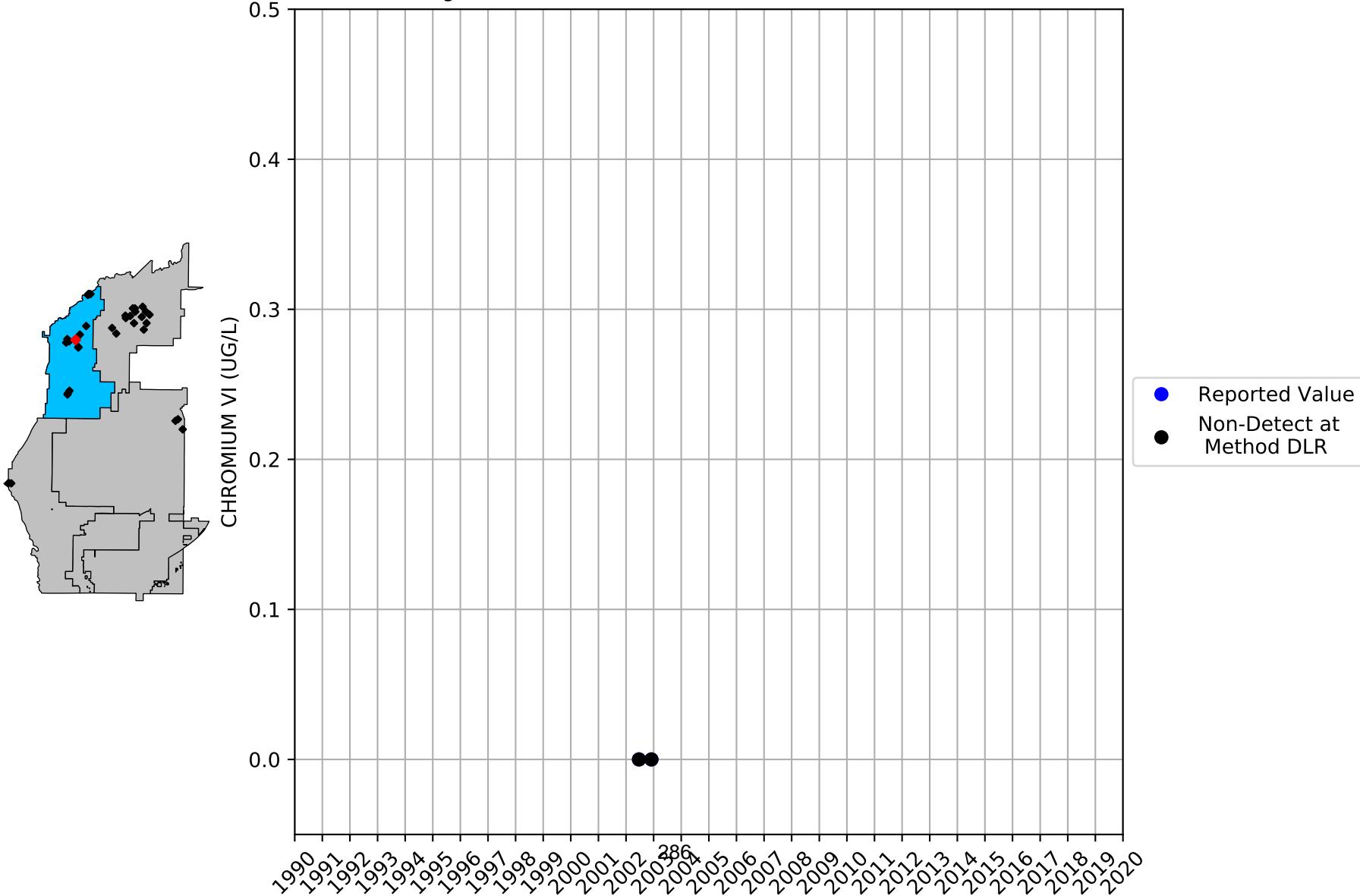
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South Fork Kings GSA



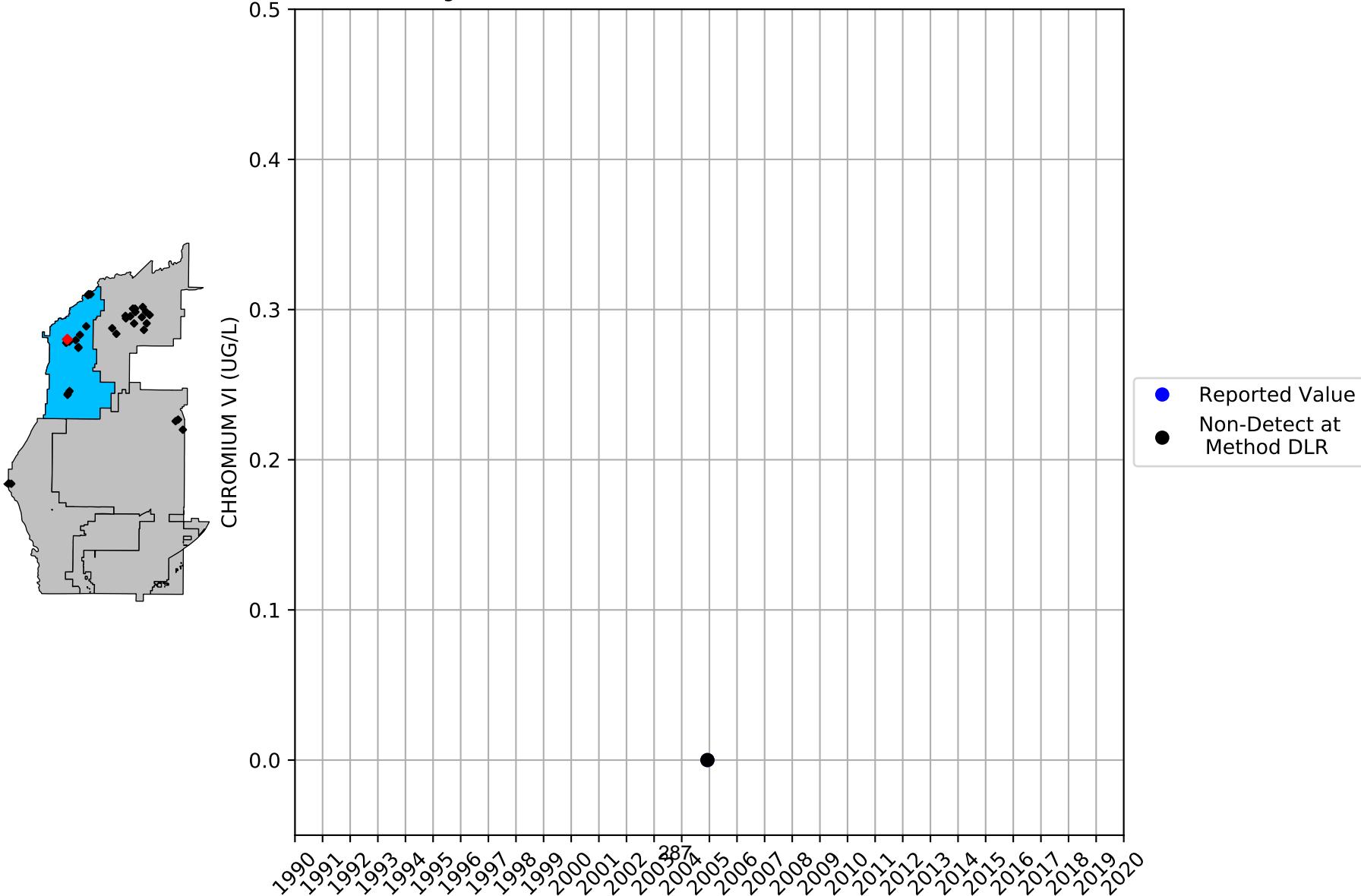
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1610005-010 WELL 11 - RAW
South Fork Kings GSA



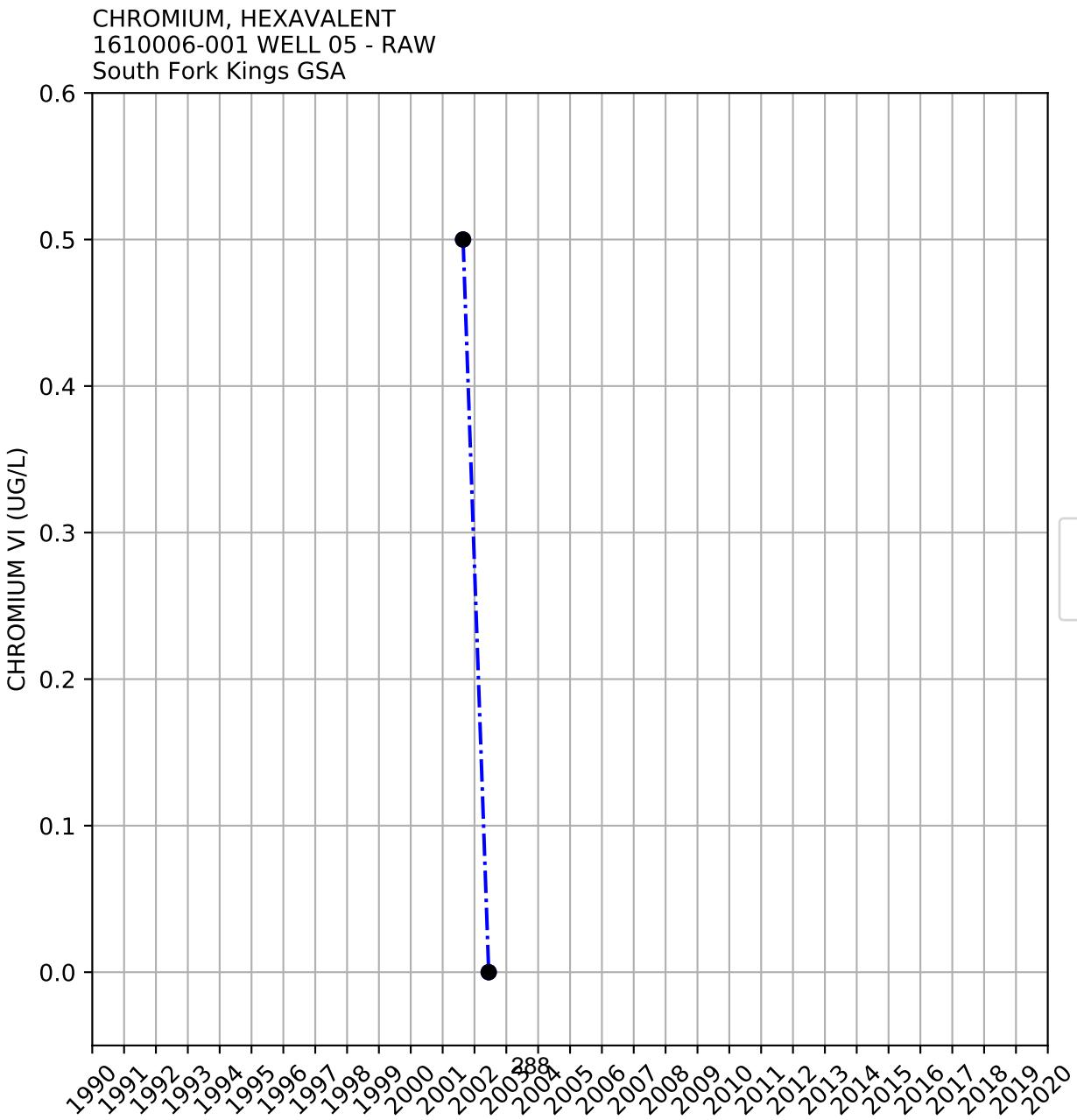
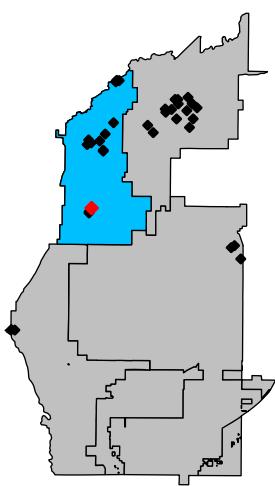
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South Fork Kings GSA



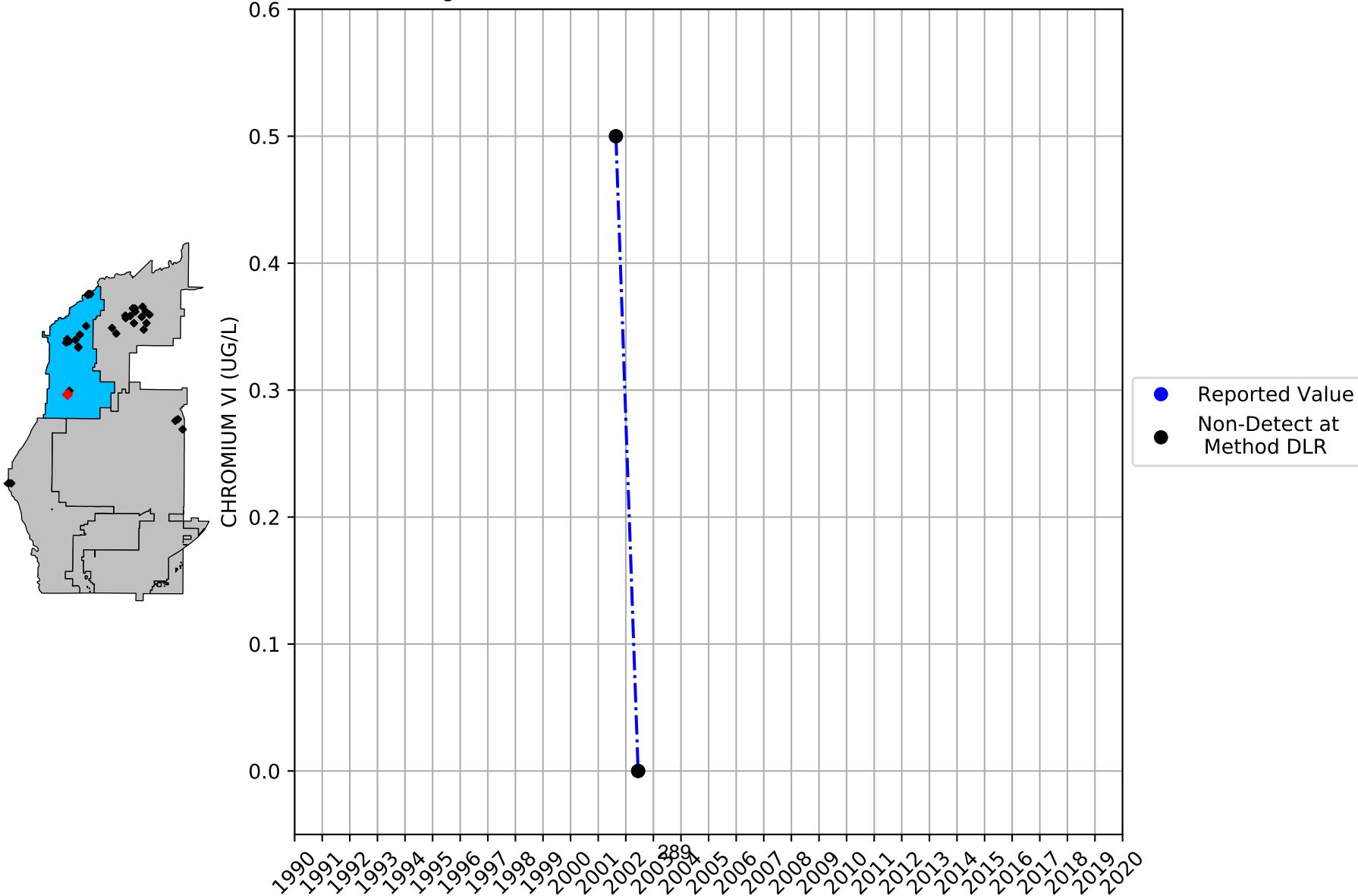
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1610005-018 WELL 07 - RAW
South Fork Kings GSA



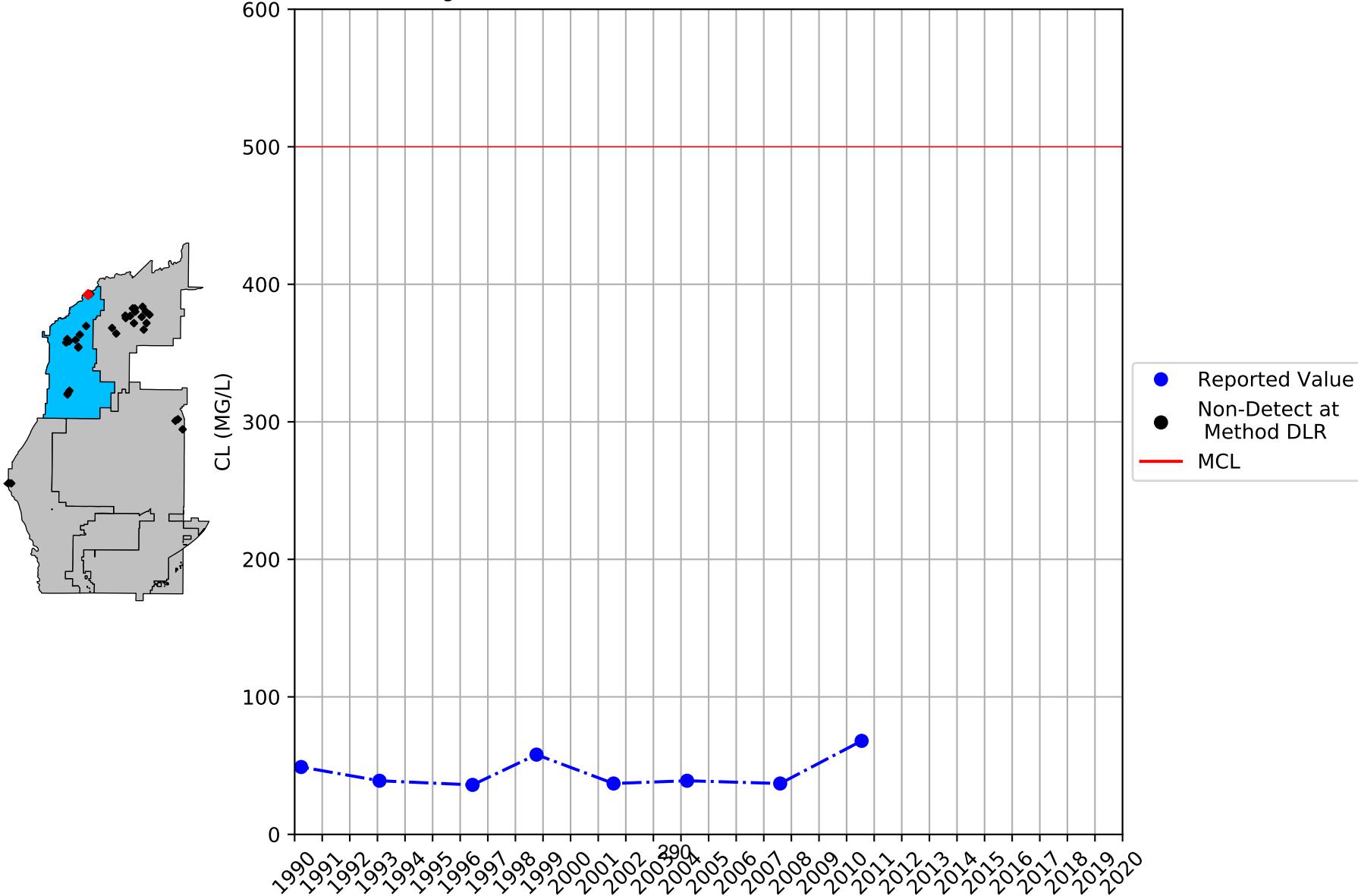
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1610006-001 WELL 05 - RAW
South Fork Kings GSA



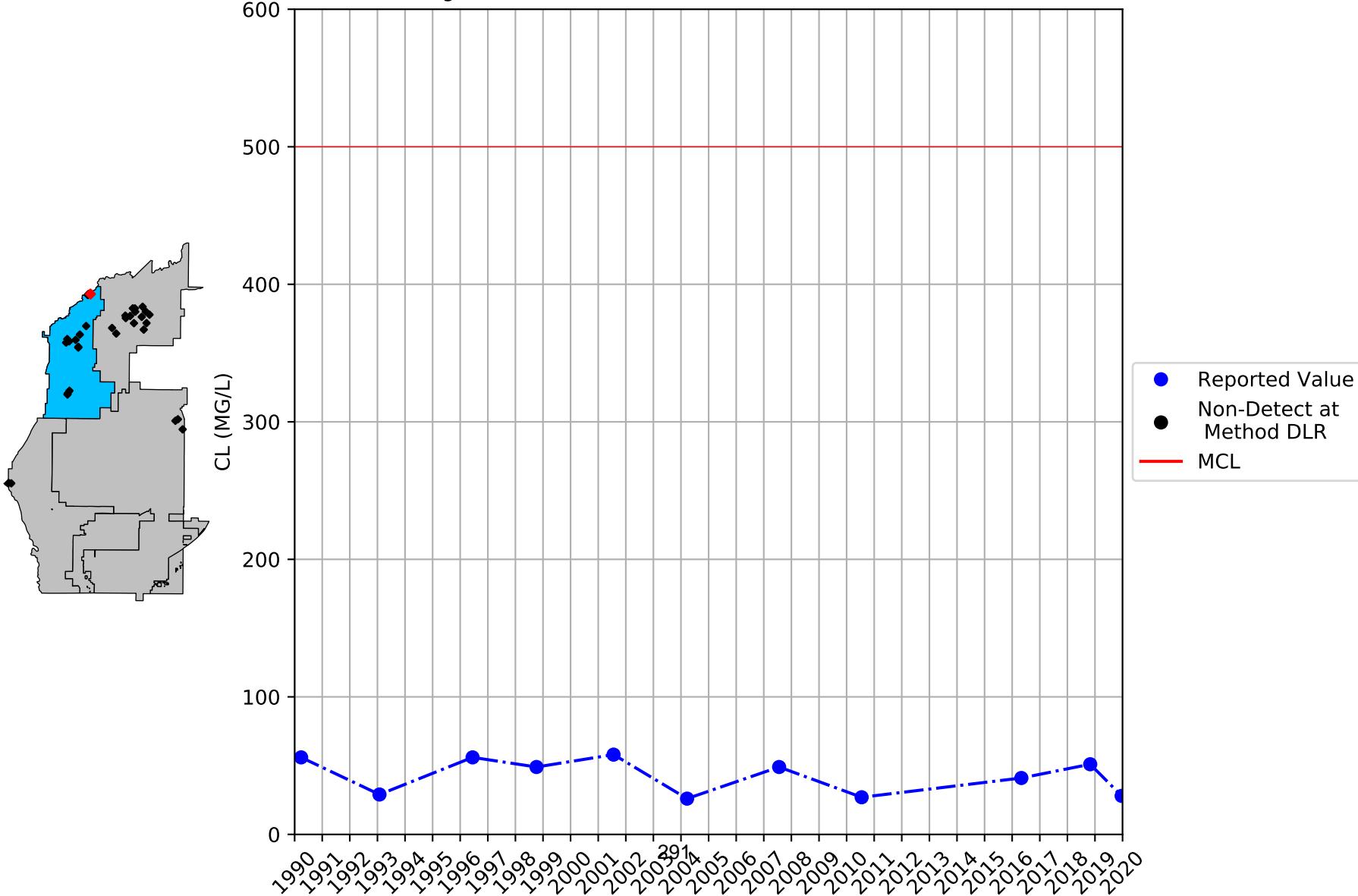
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South Fork Kings GSA



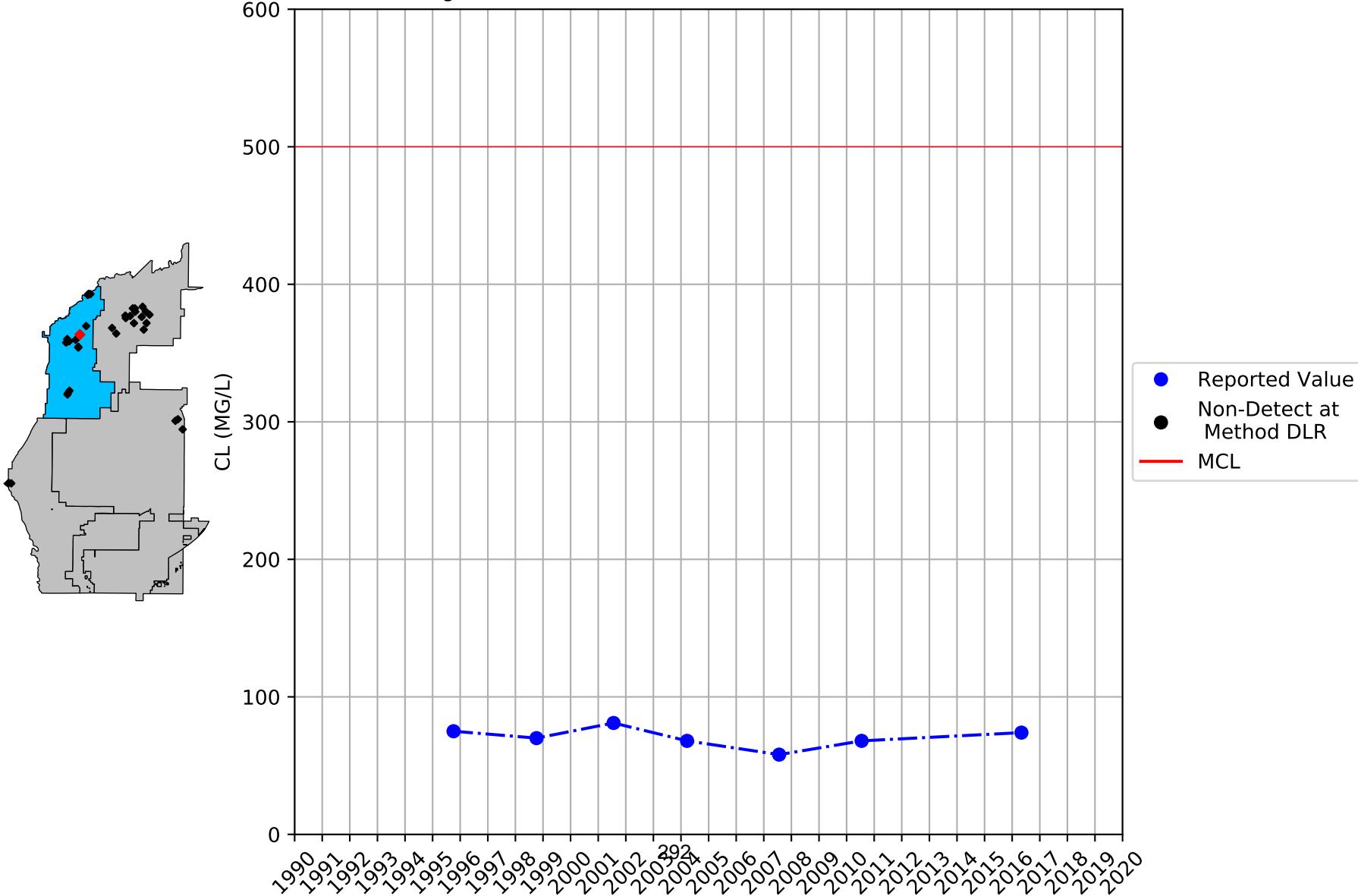
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South Fork Kings GSA



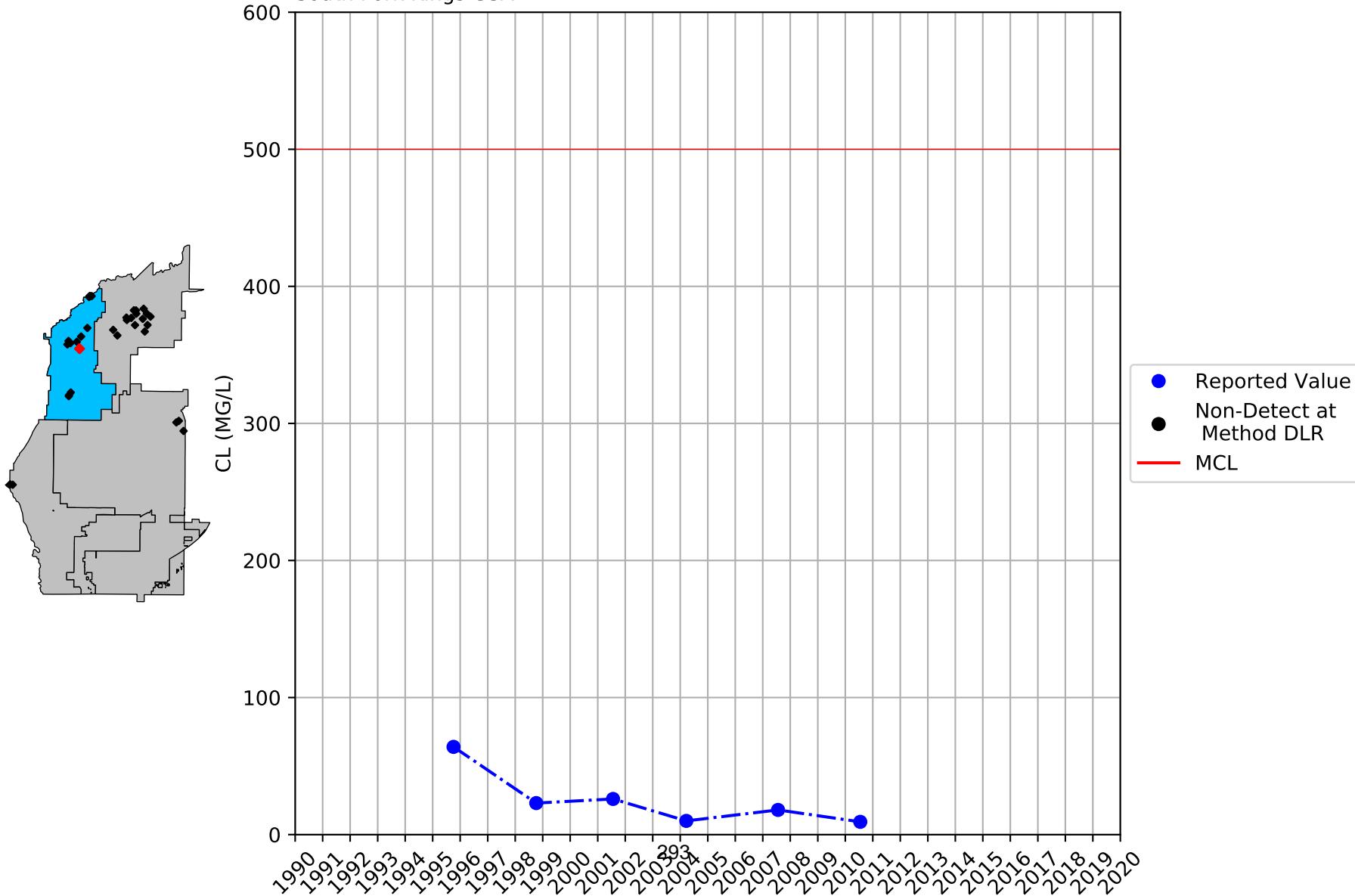
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South Fork Kings GSA



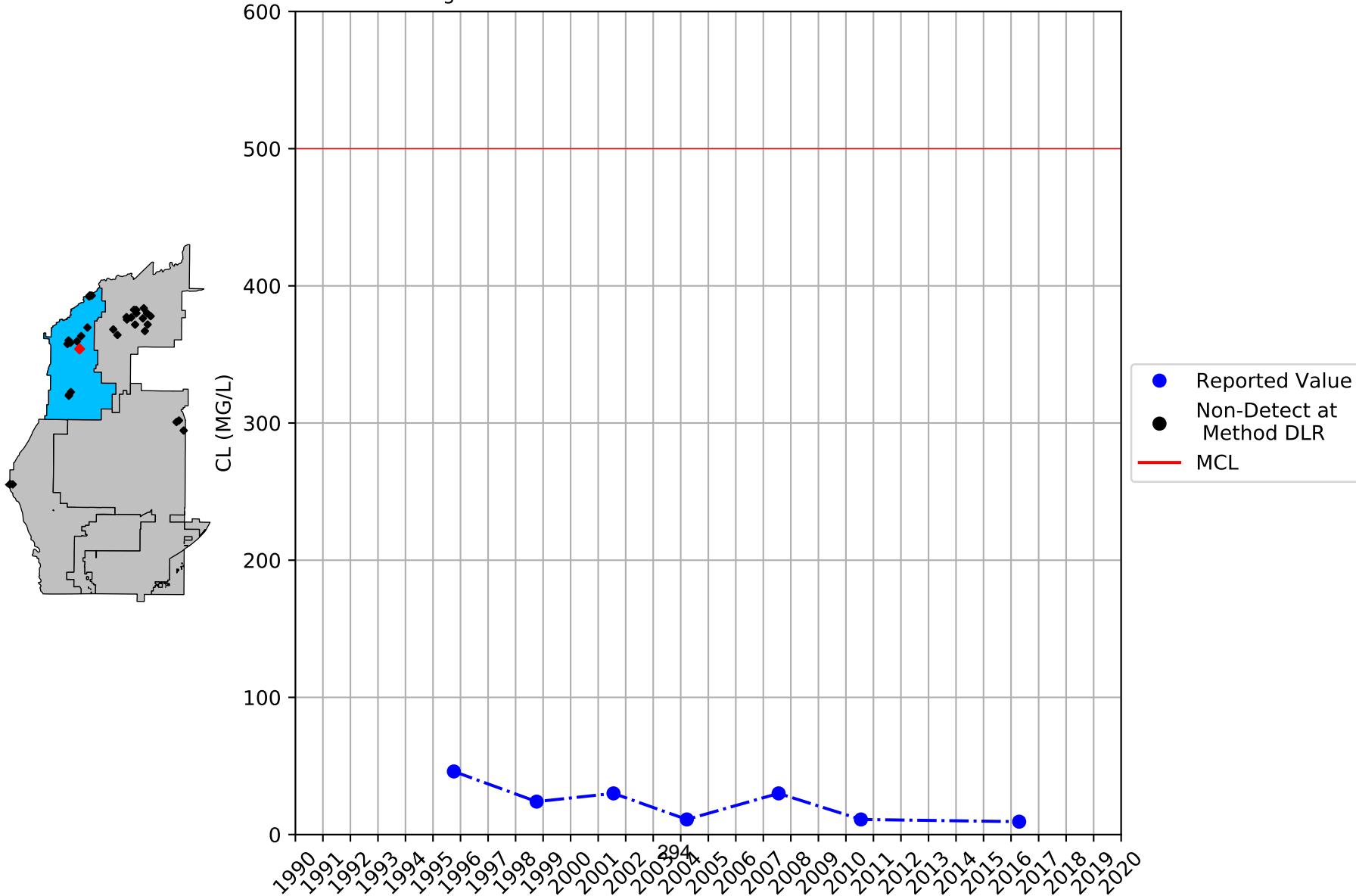
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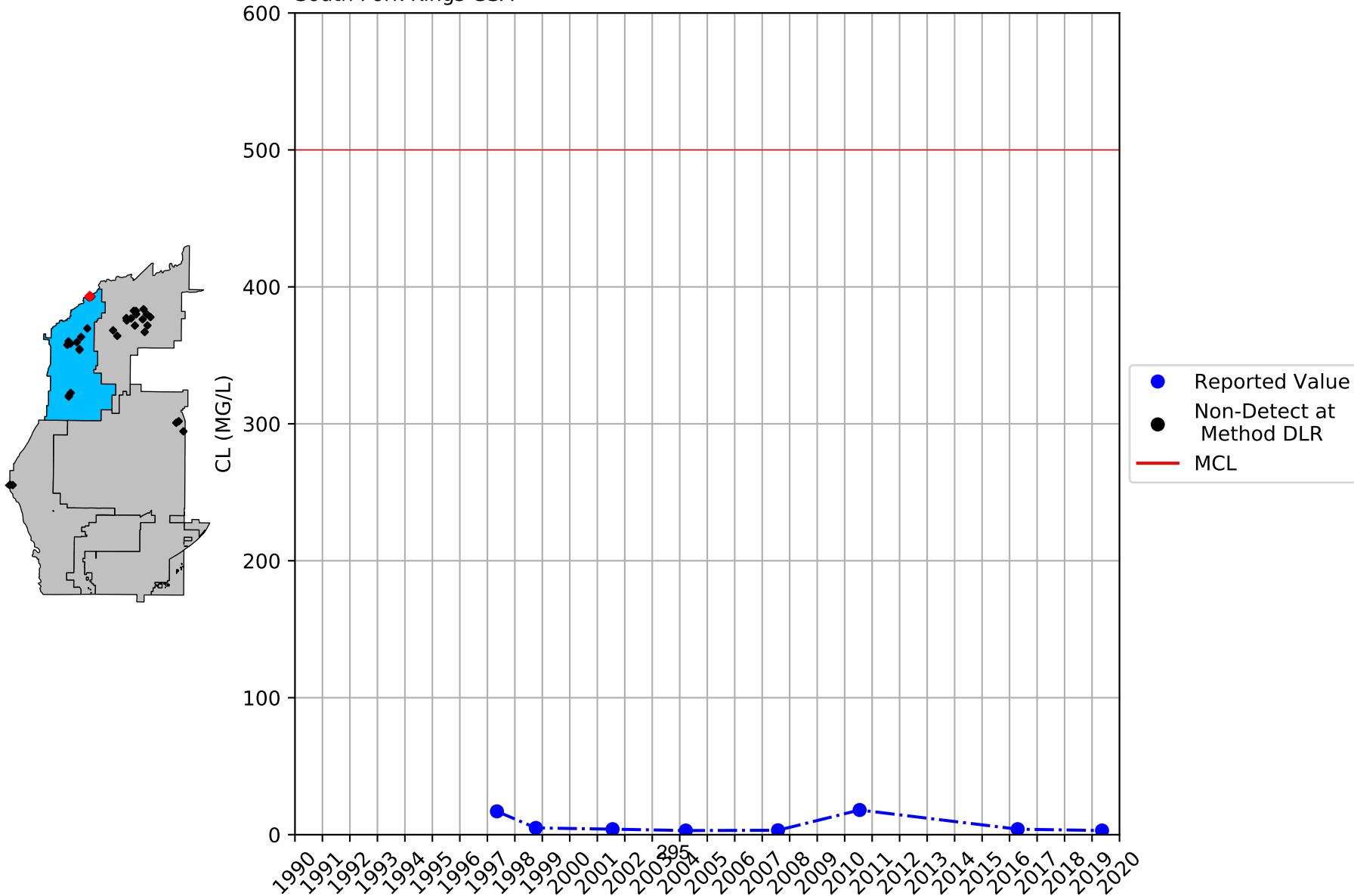
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South Fork Kings GSA



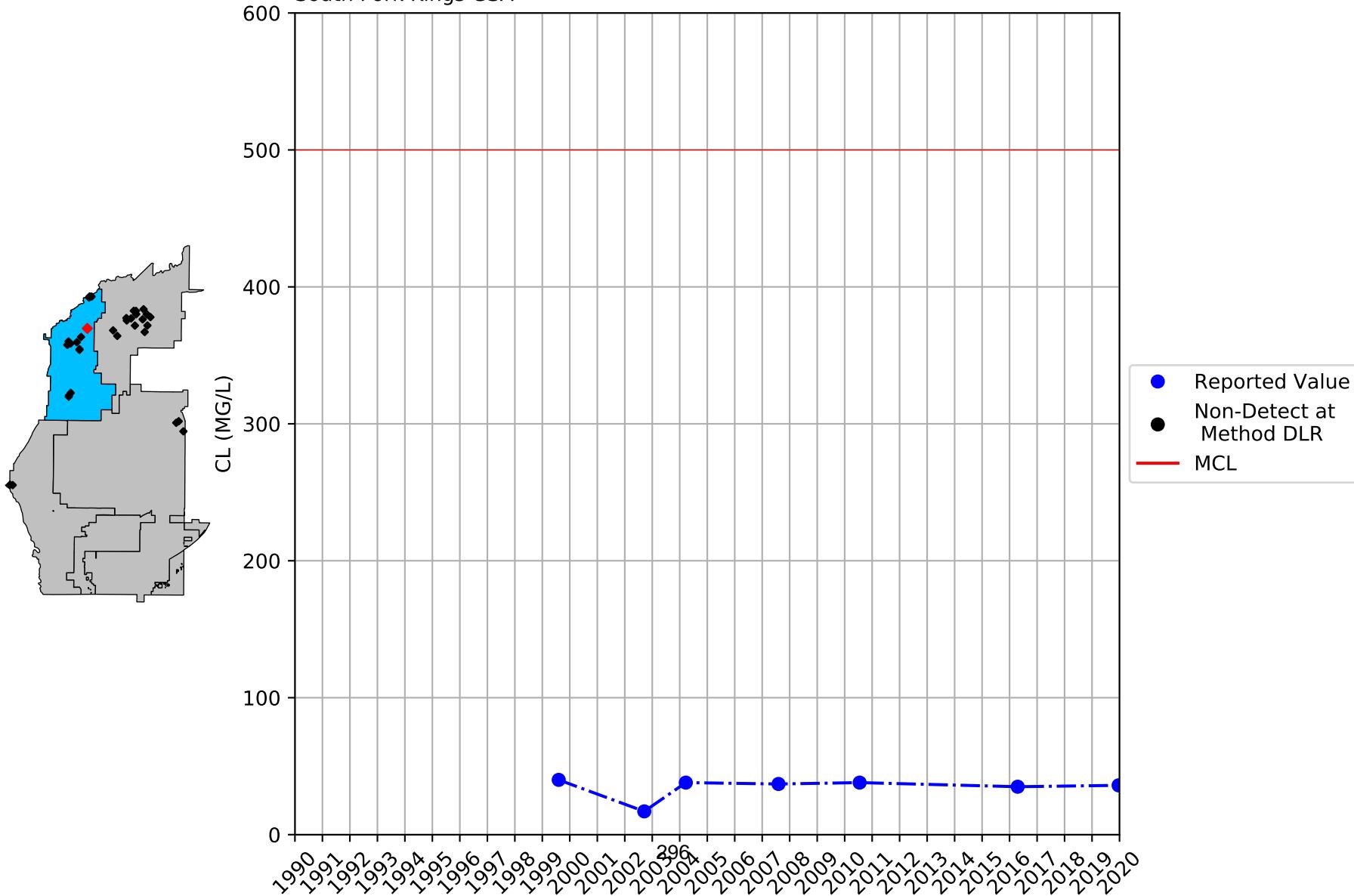
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South Fork Kings GSA



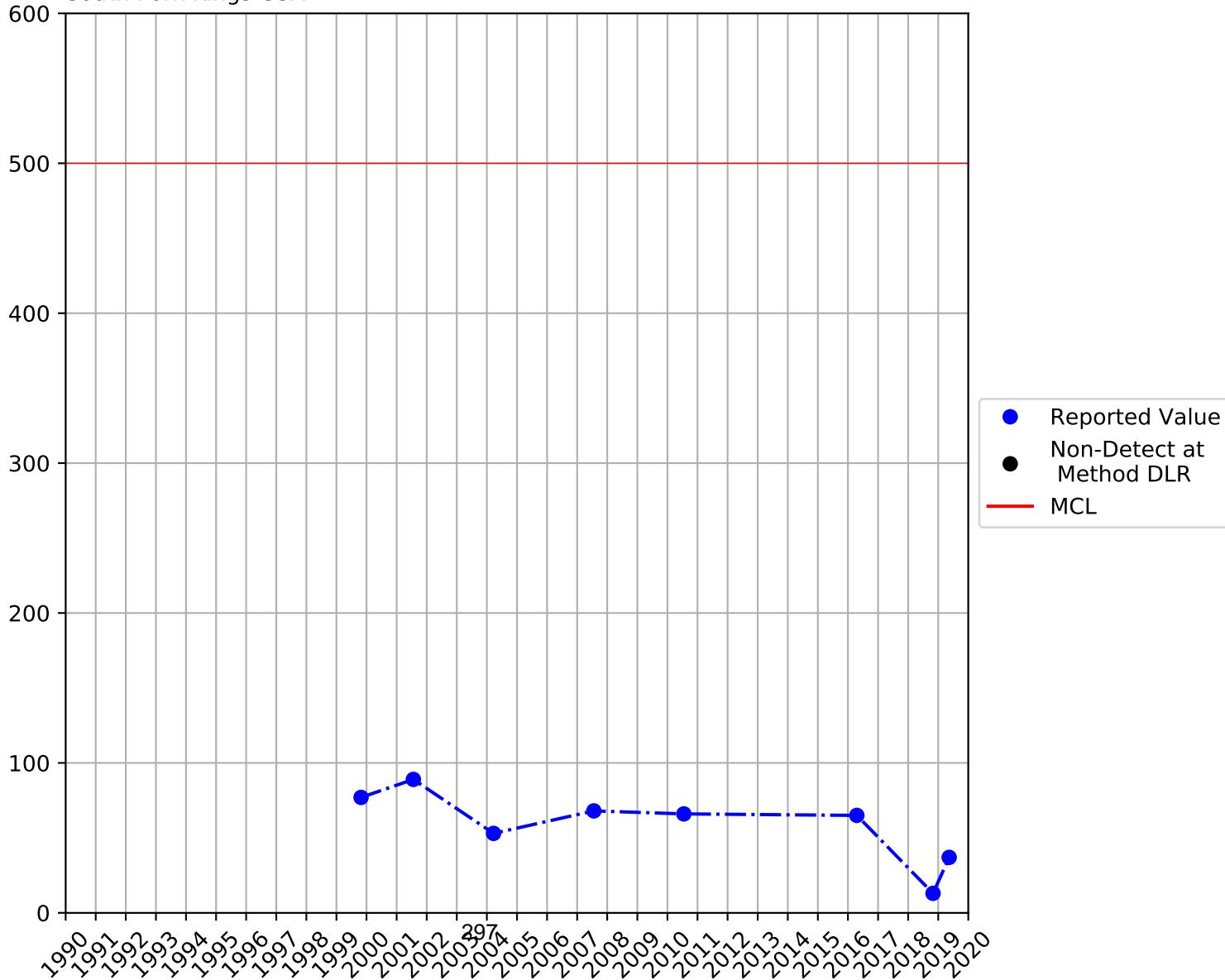
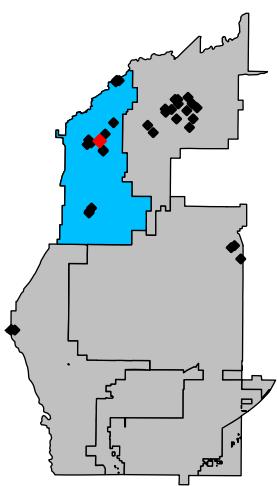
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South Fork Kings GSA



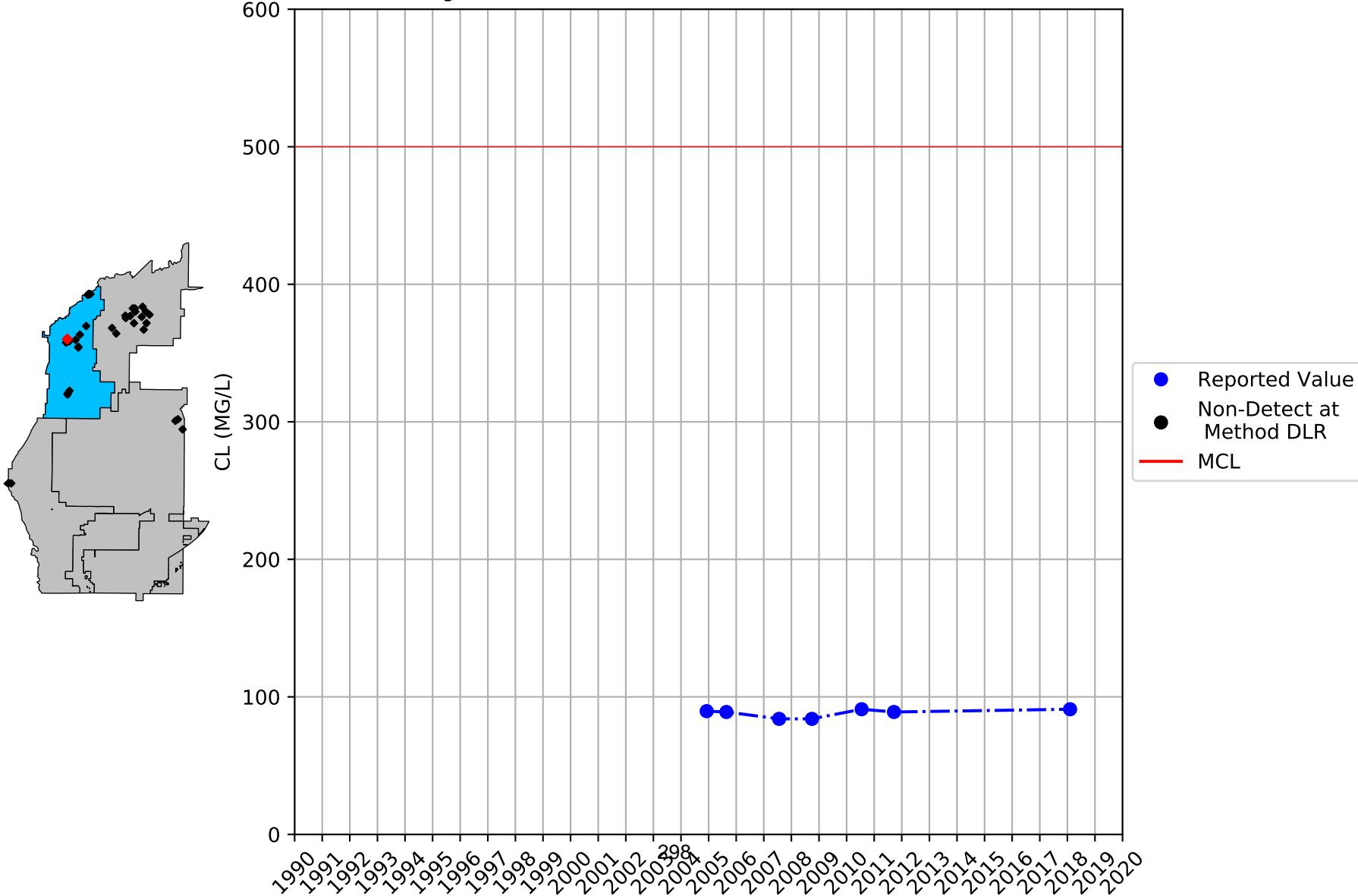
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South Fork Kings GSA



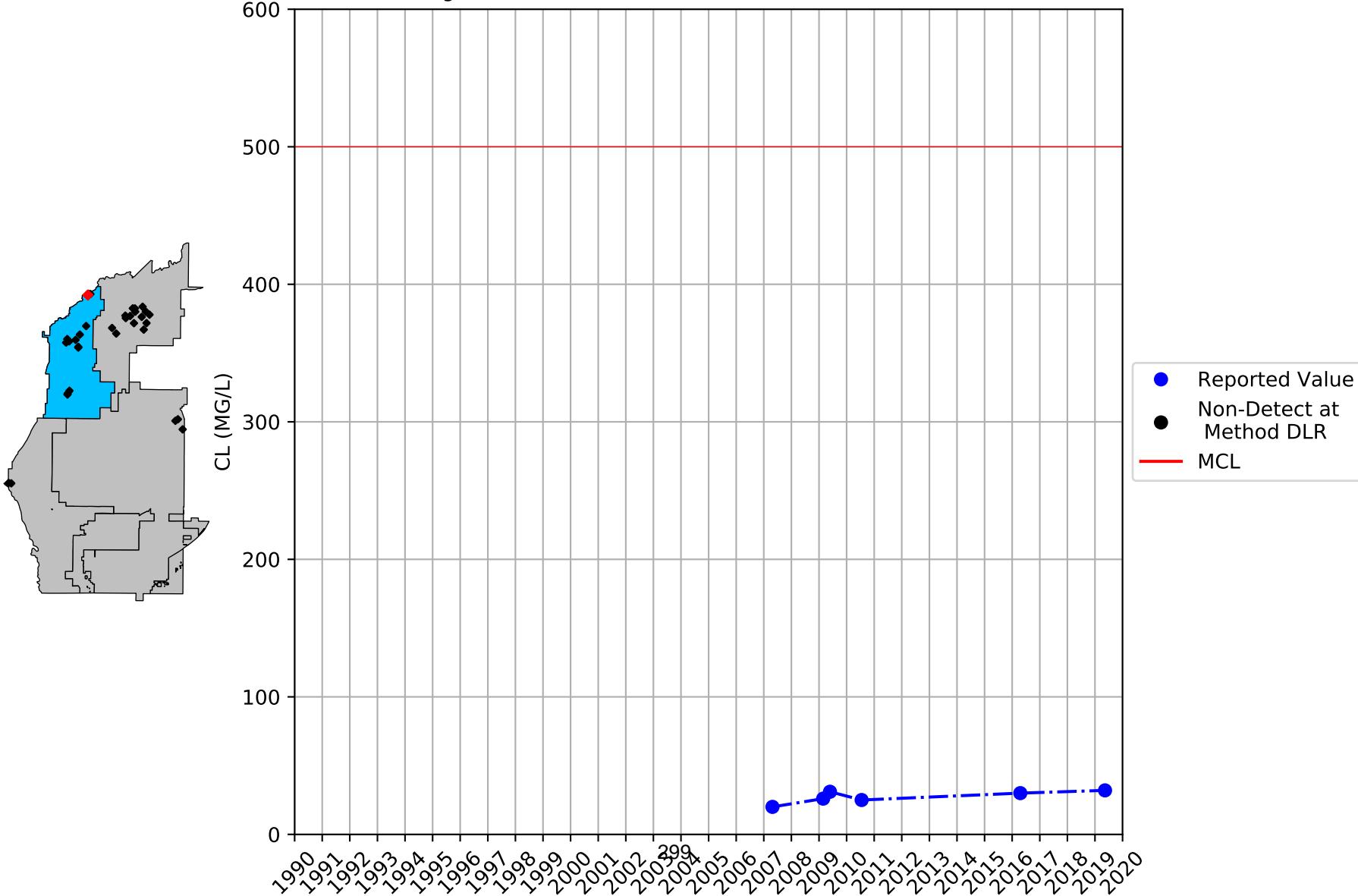
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South Fork Kings GSA



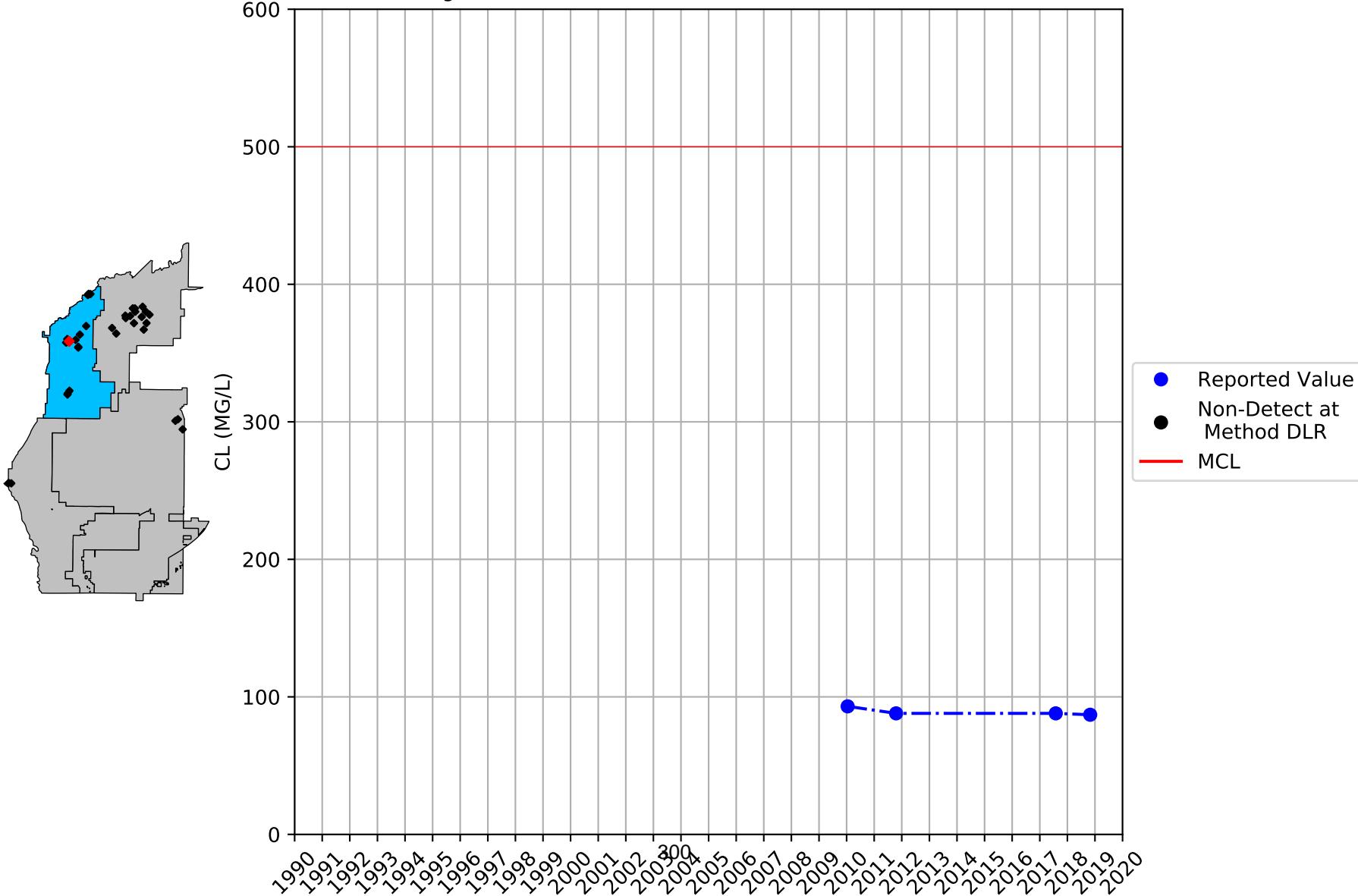
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South Fork Kings GSA



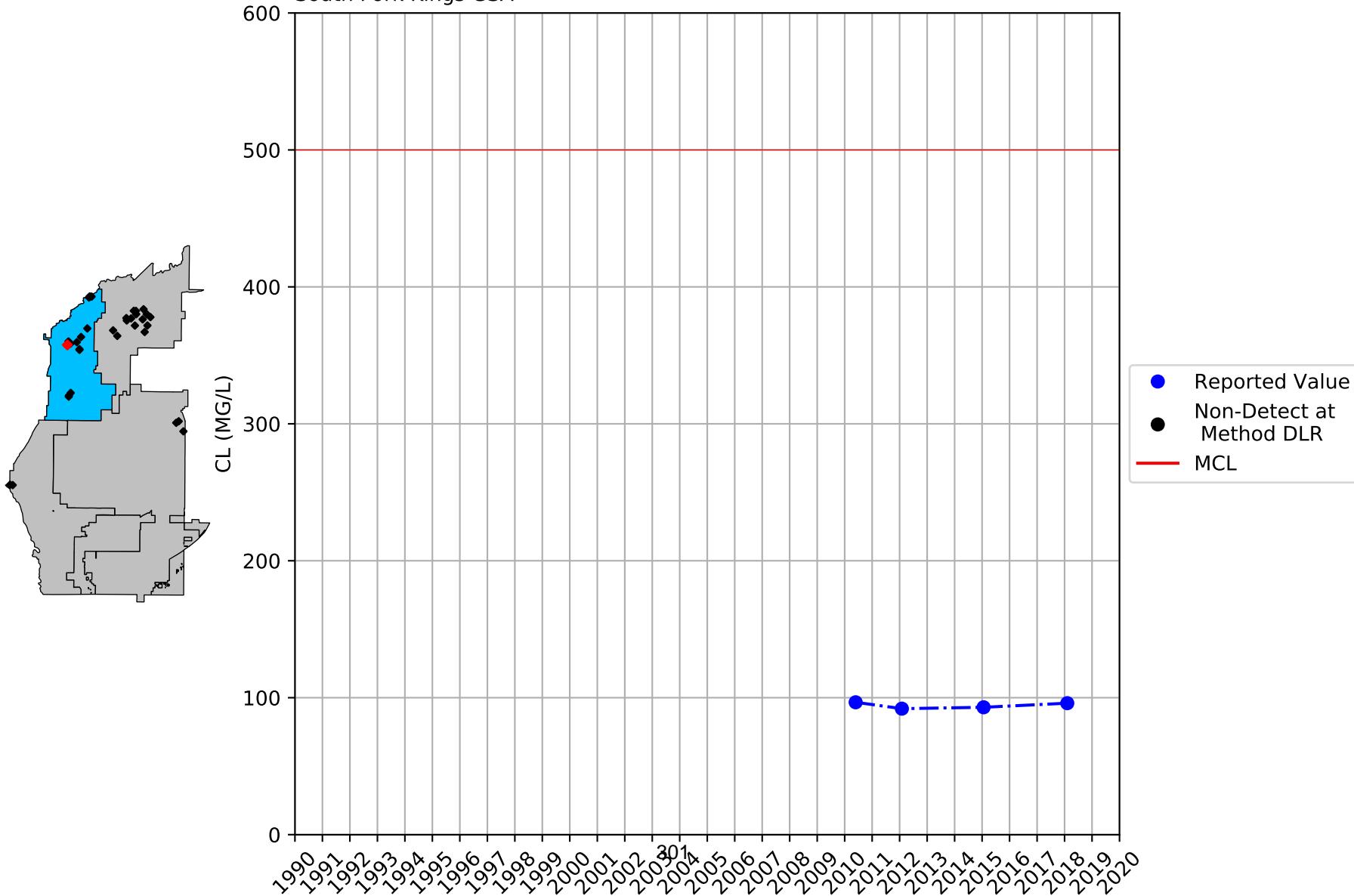
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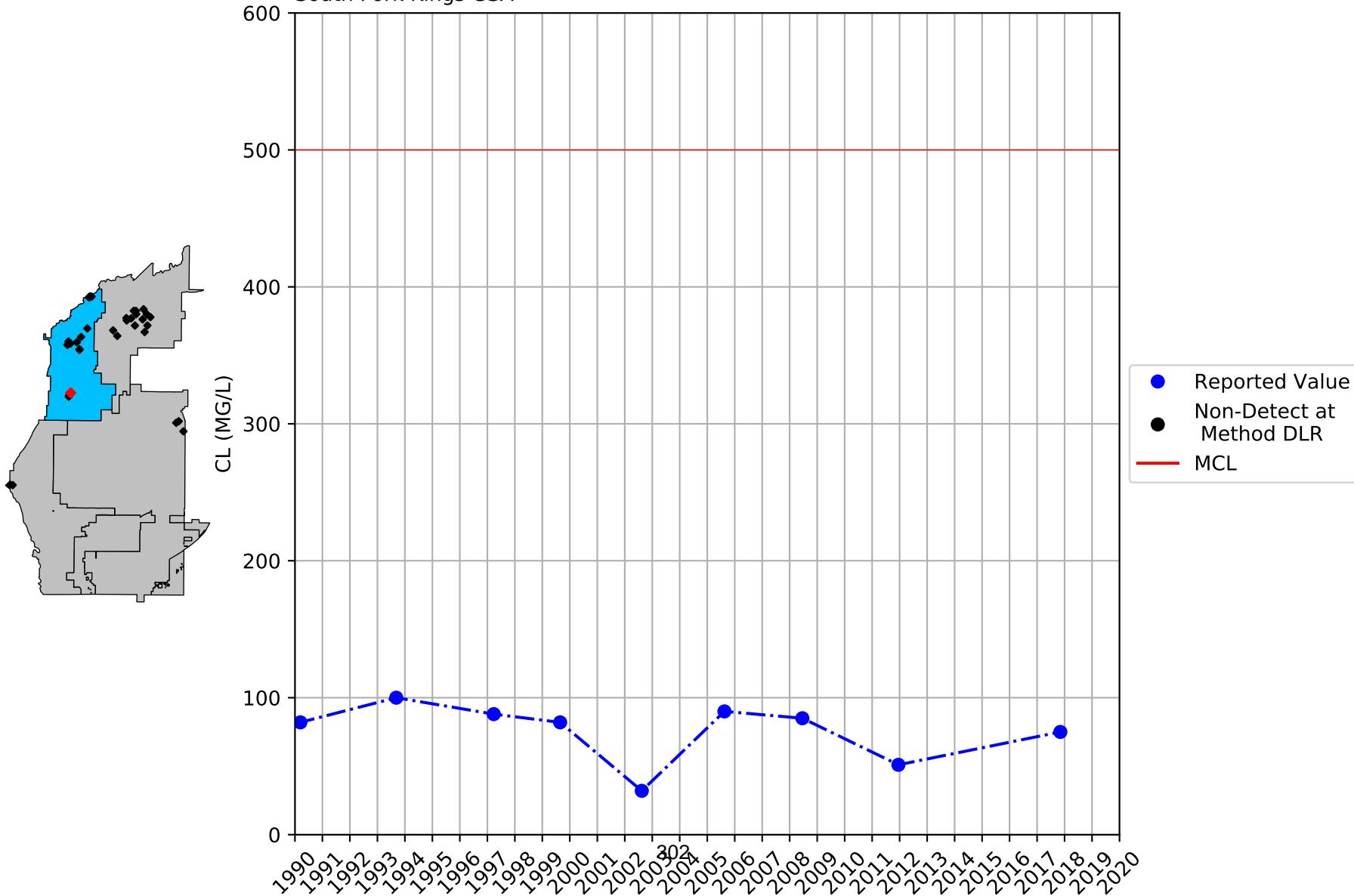
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South Fork Kings GSA



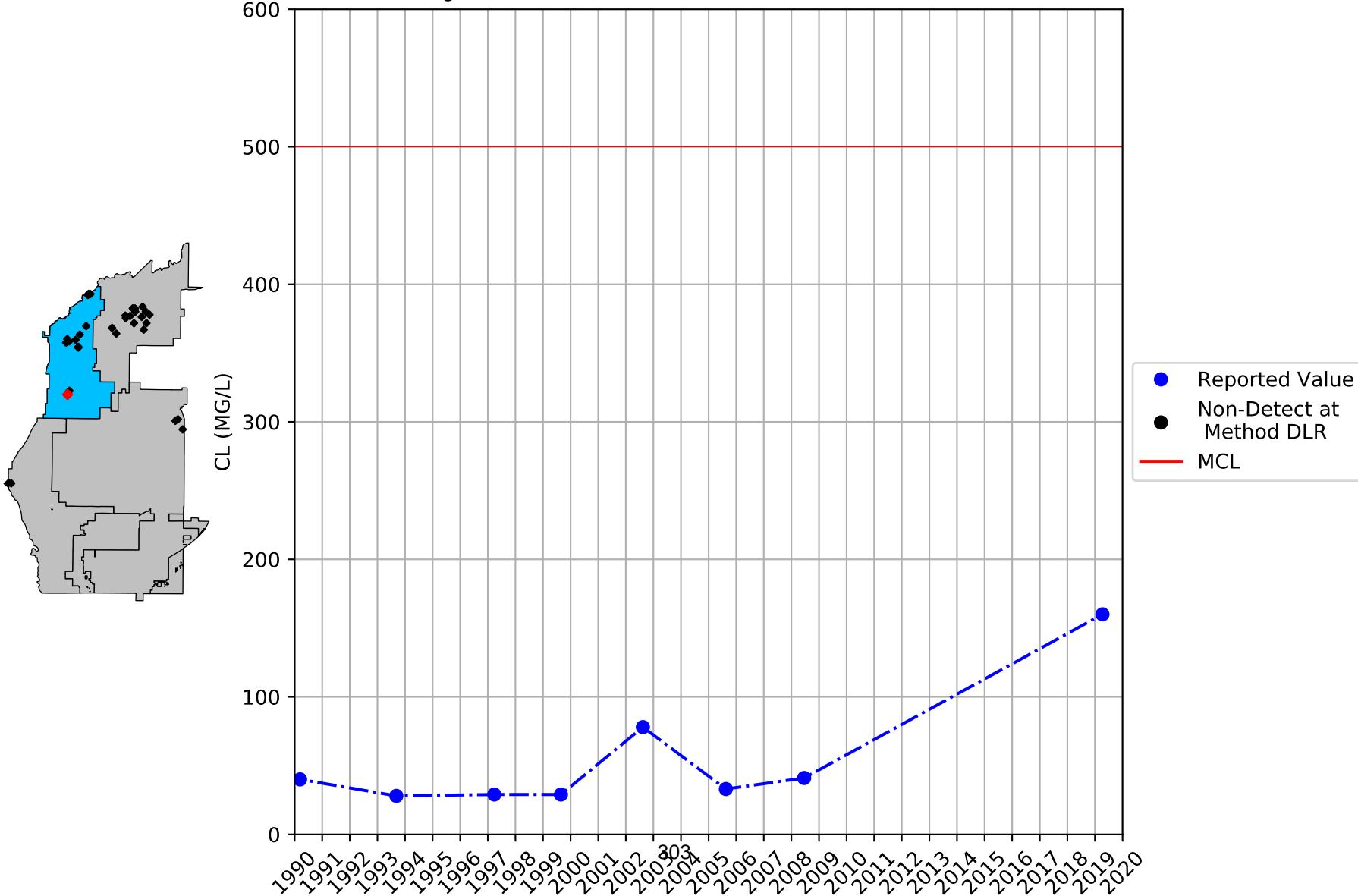
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South Fork Kings GSA



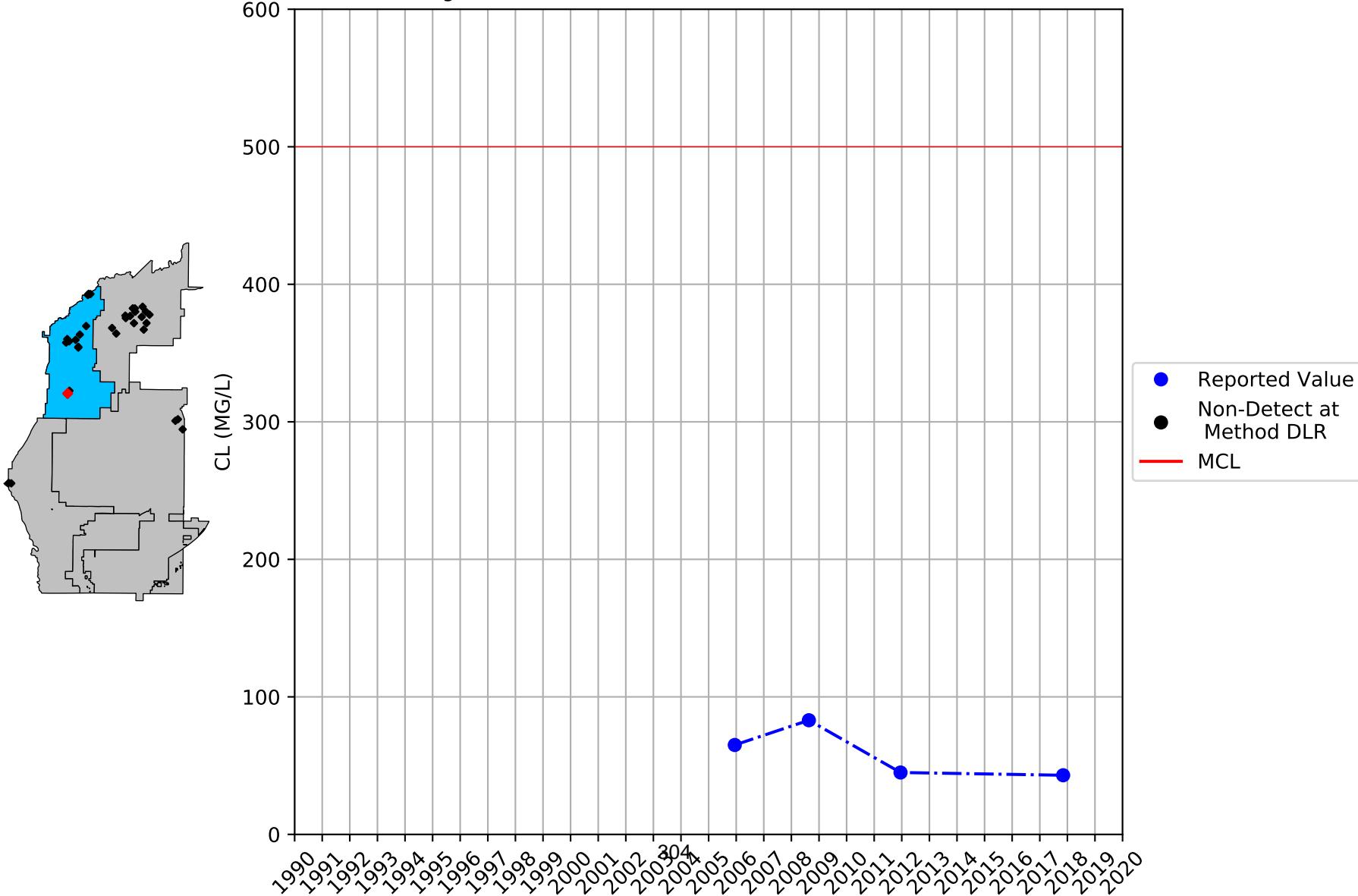
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South Fork Kings GSA



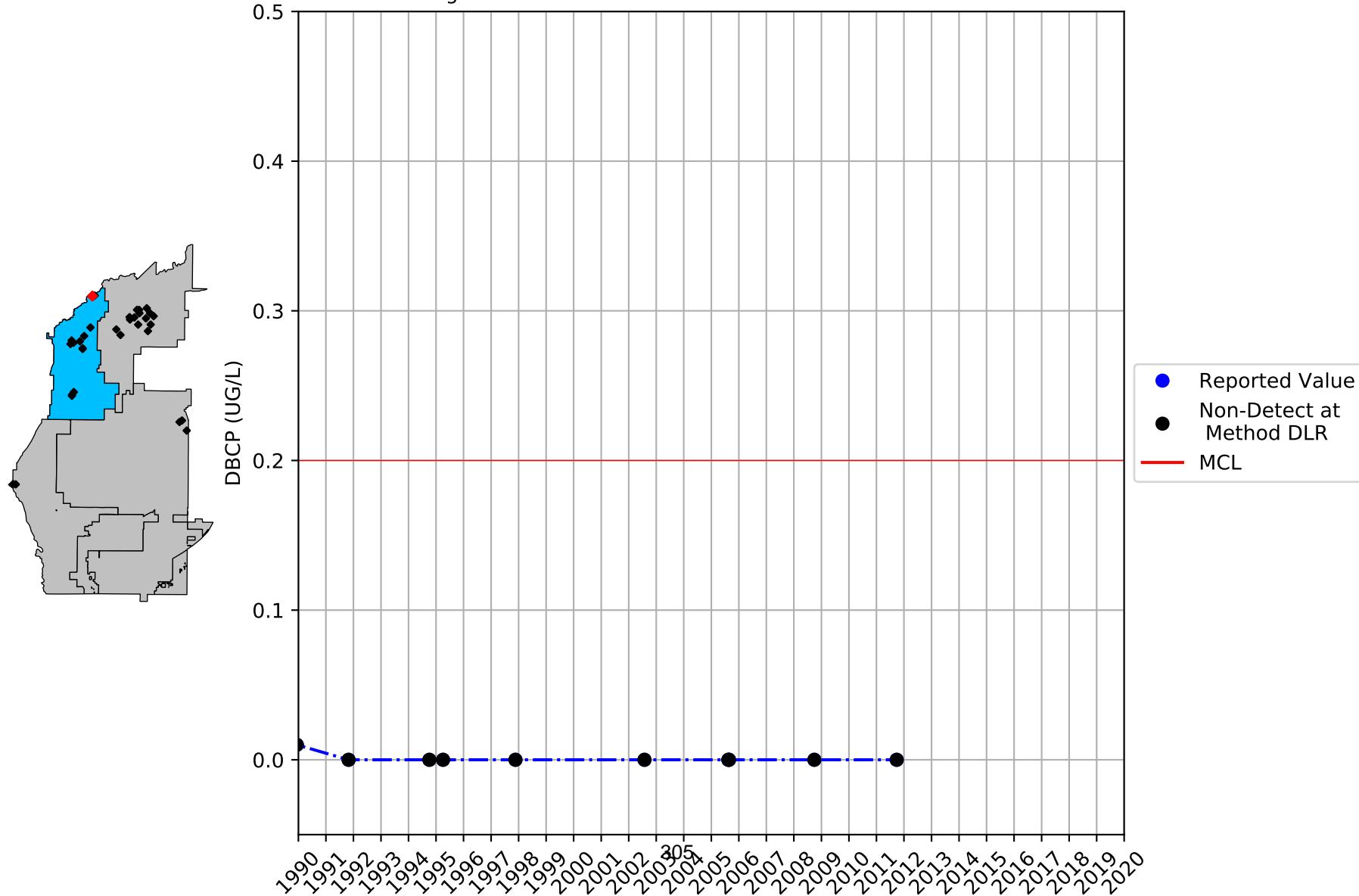
CHLORIDE
1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



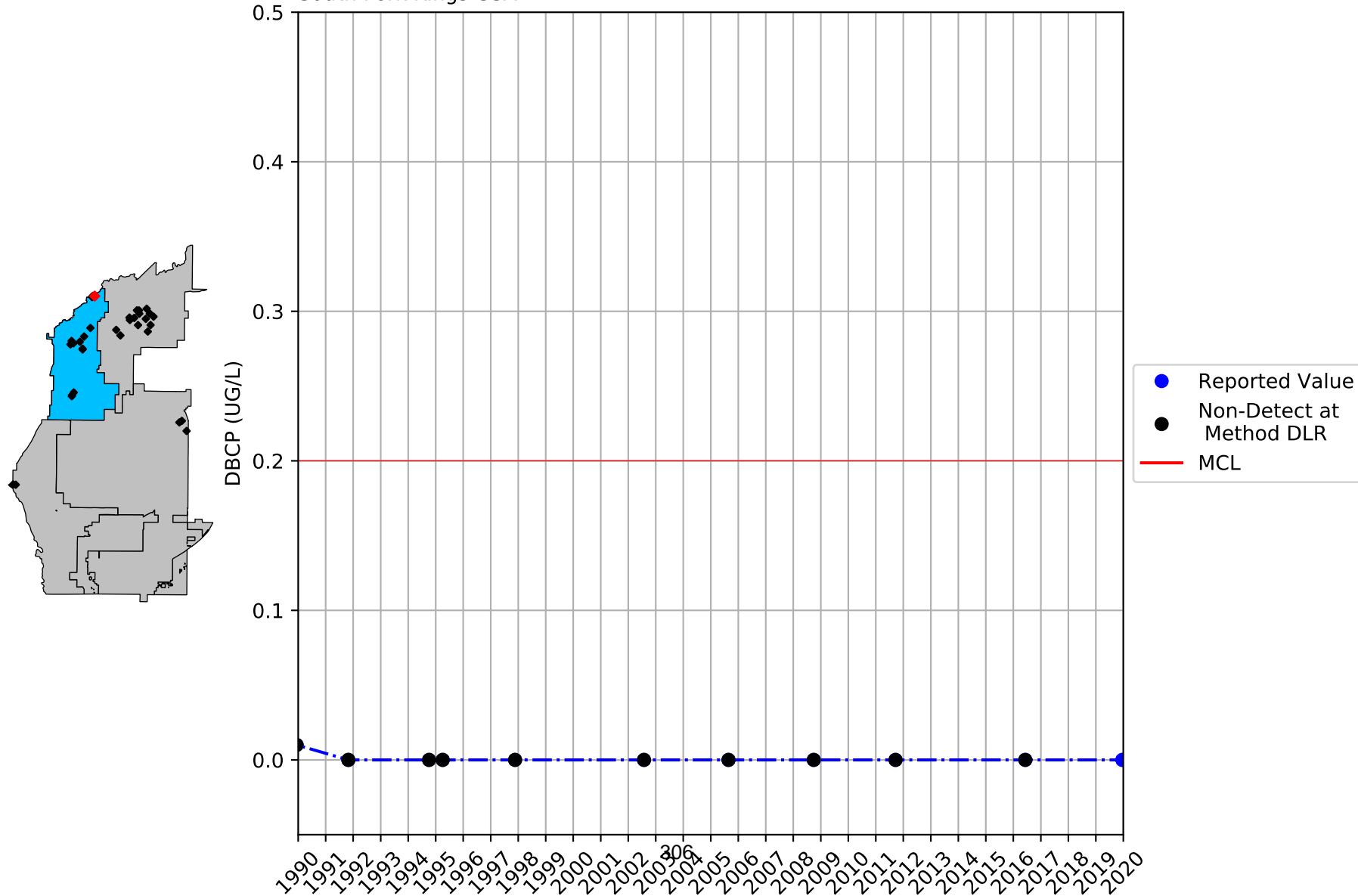
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South Fork Kings GSA



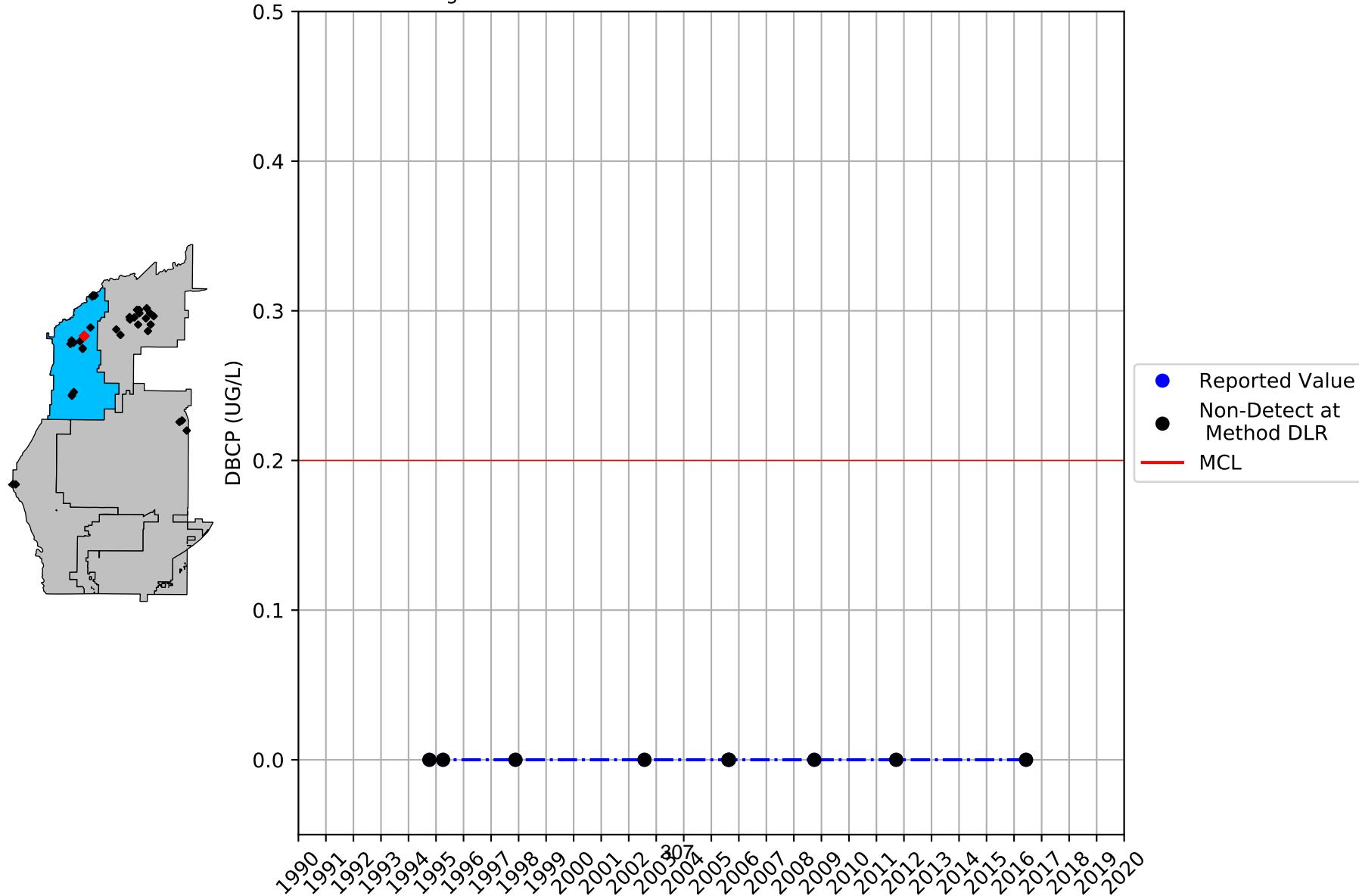
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1610005-003 WELL N-2 - RAW
South Fork Kings GSA



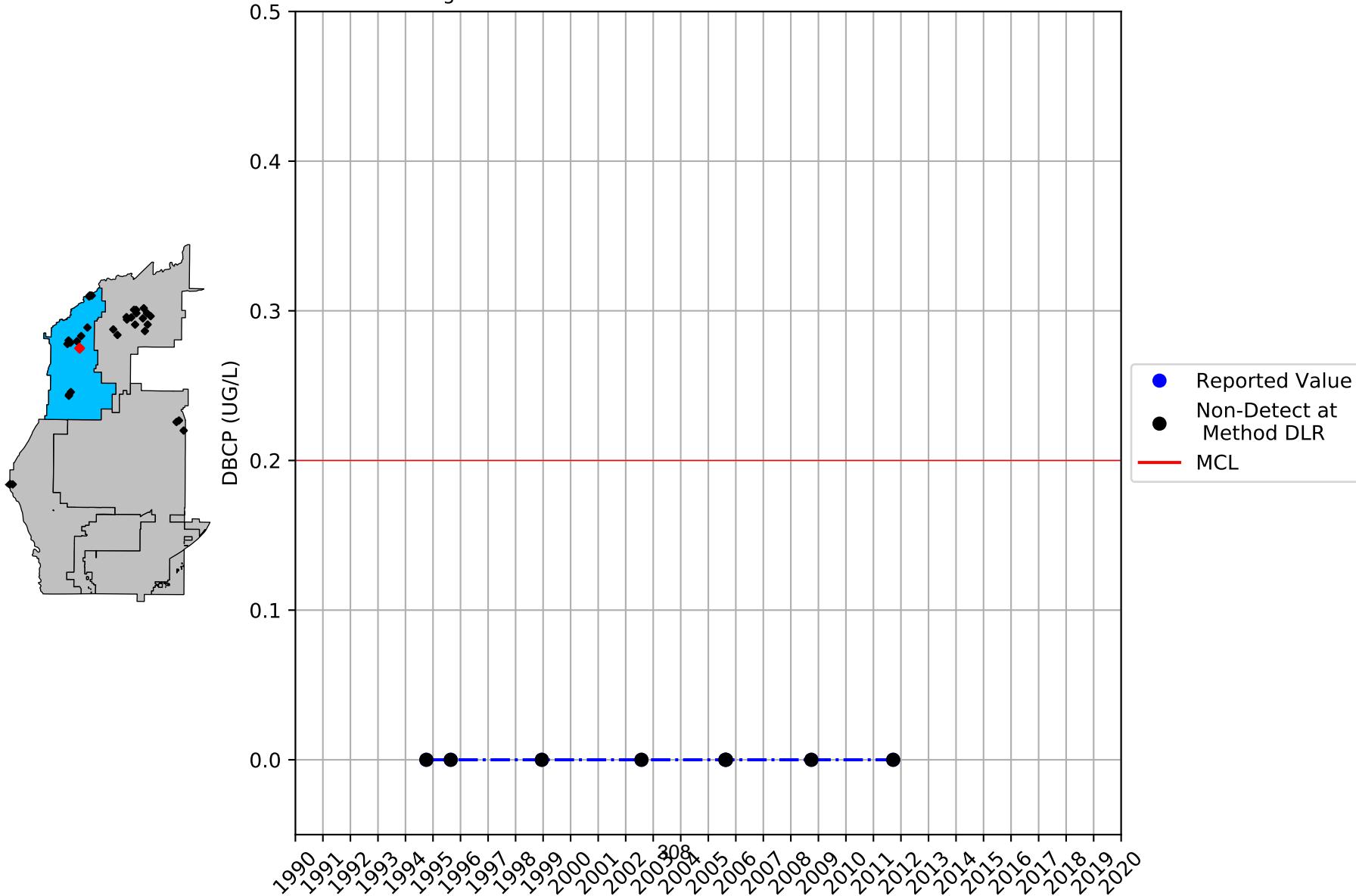
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South Fork Kings GSA



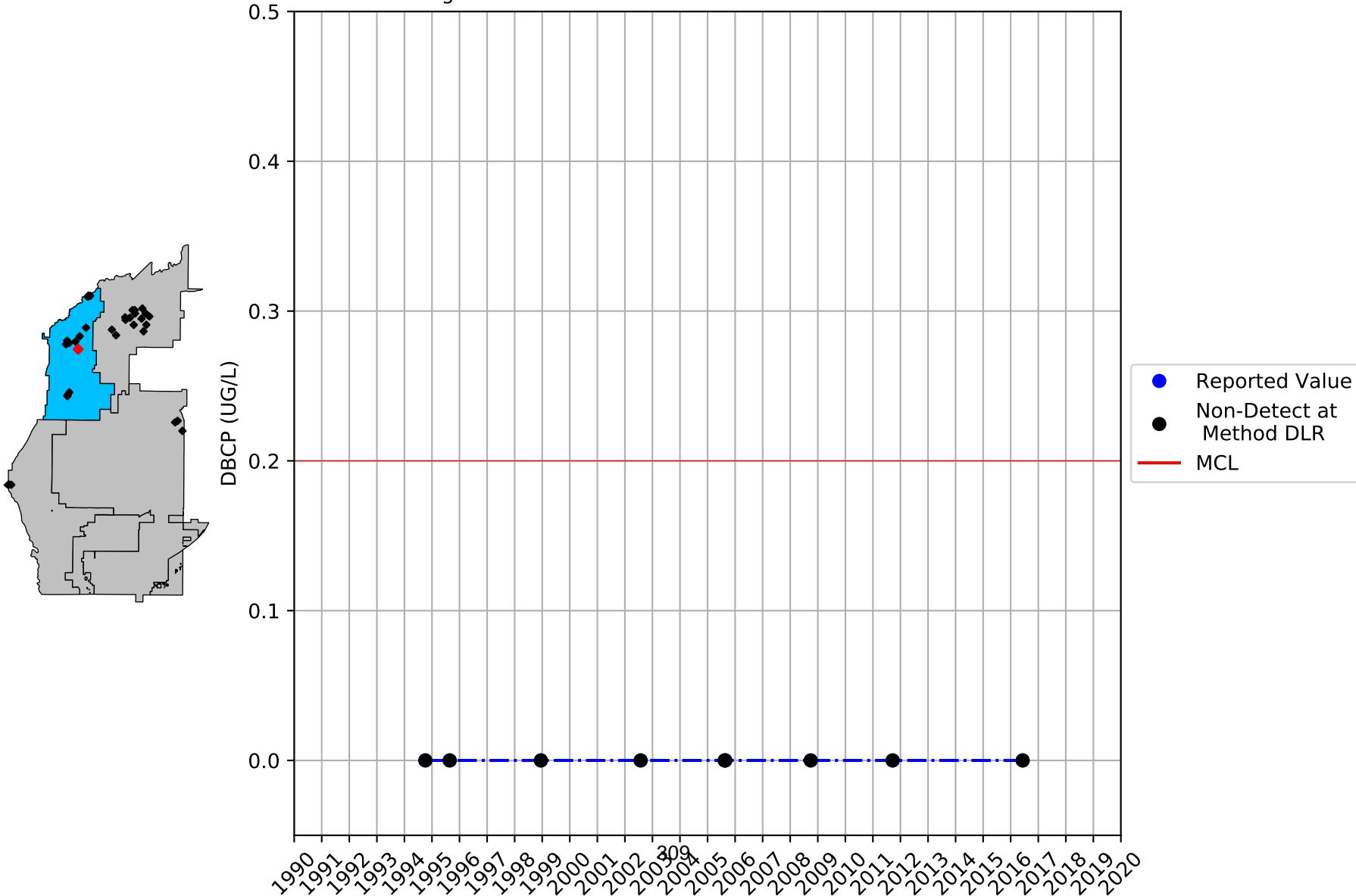
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South Fork Kings GSA



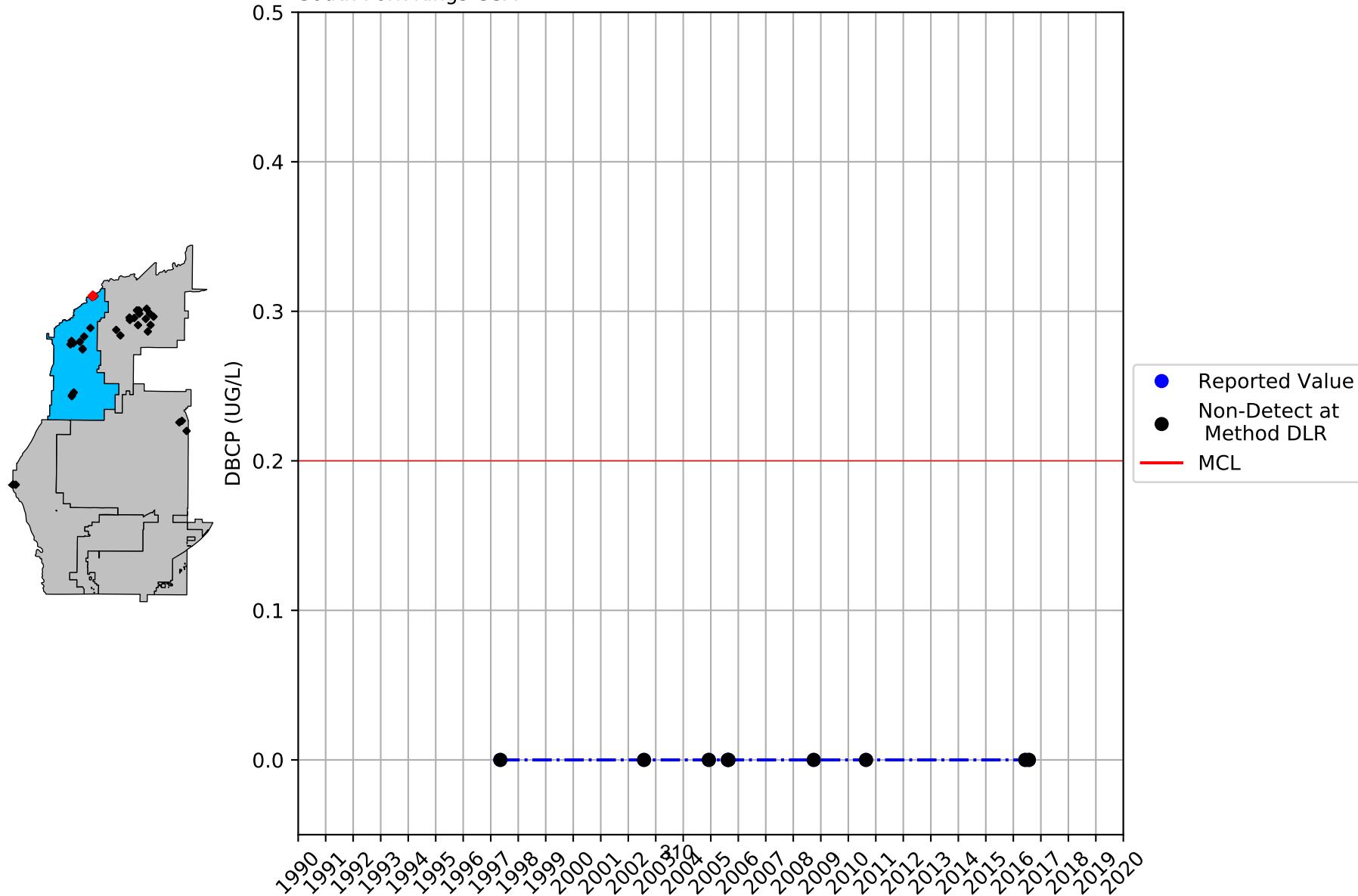
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South Fork Kings GSA



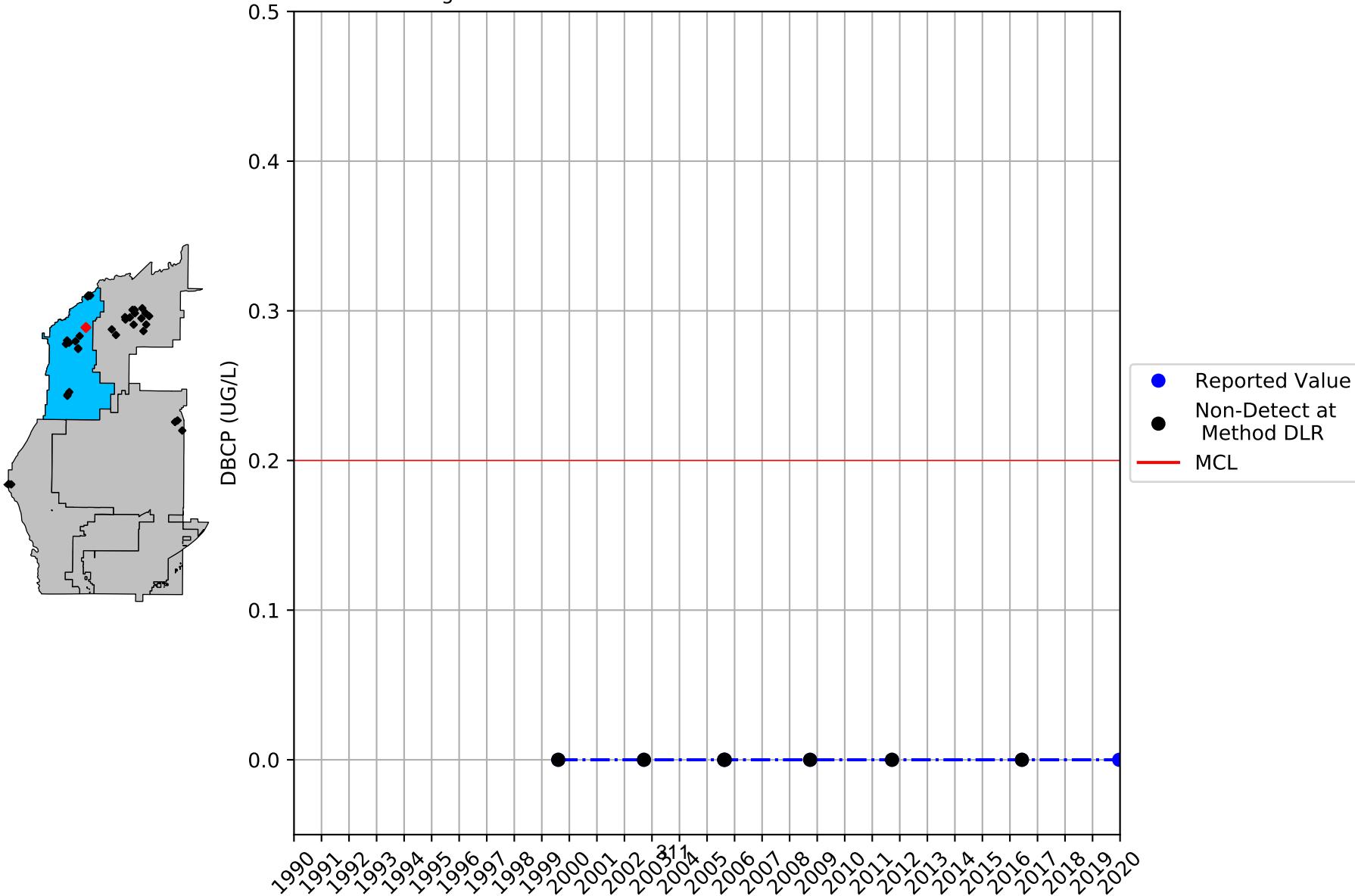
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South Fork Kings GSA



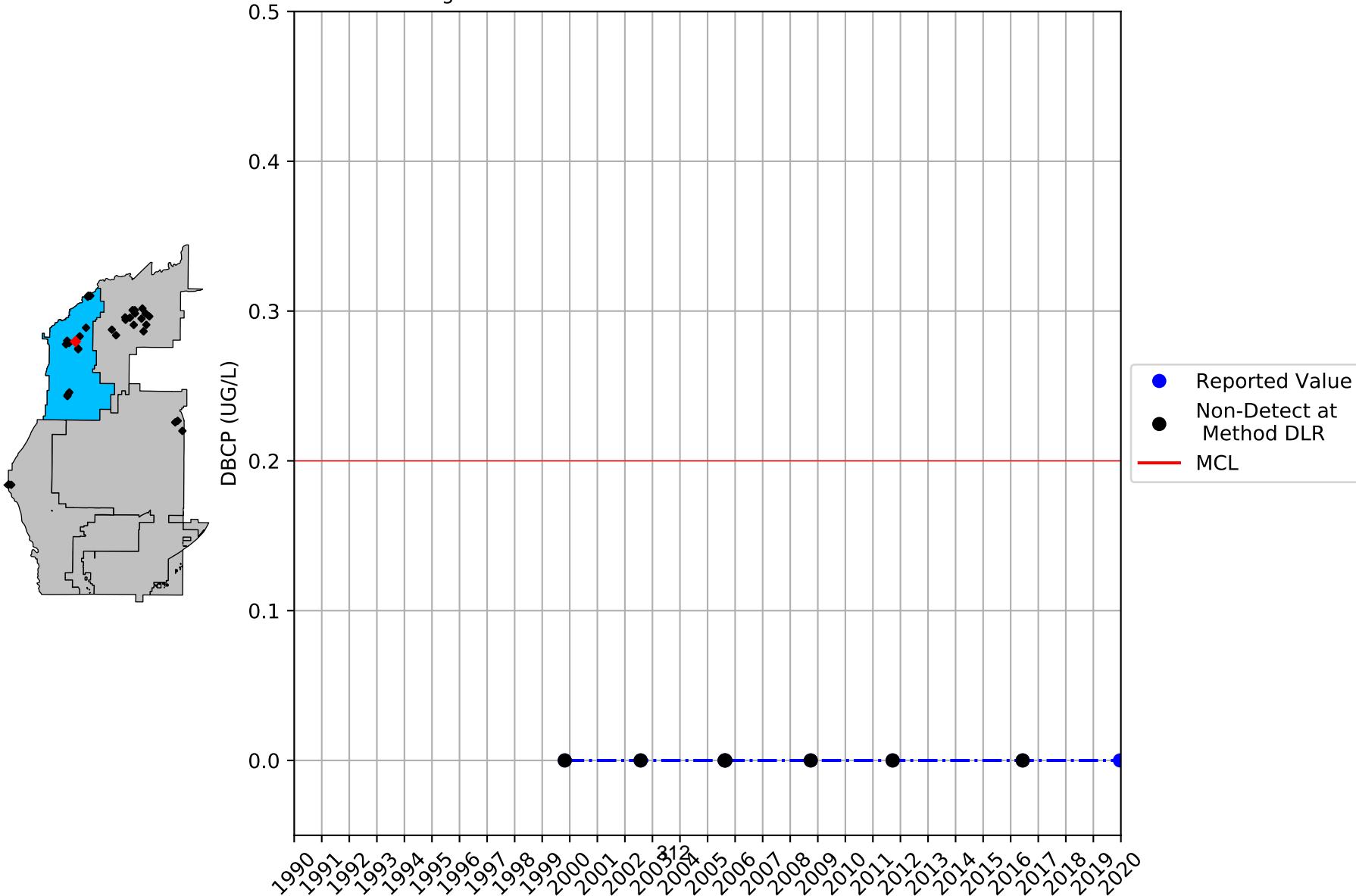
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1610005-009 WELL N-5 - RAW
South Fork Kings GSA



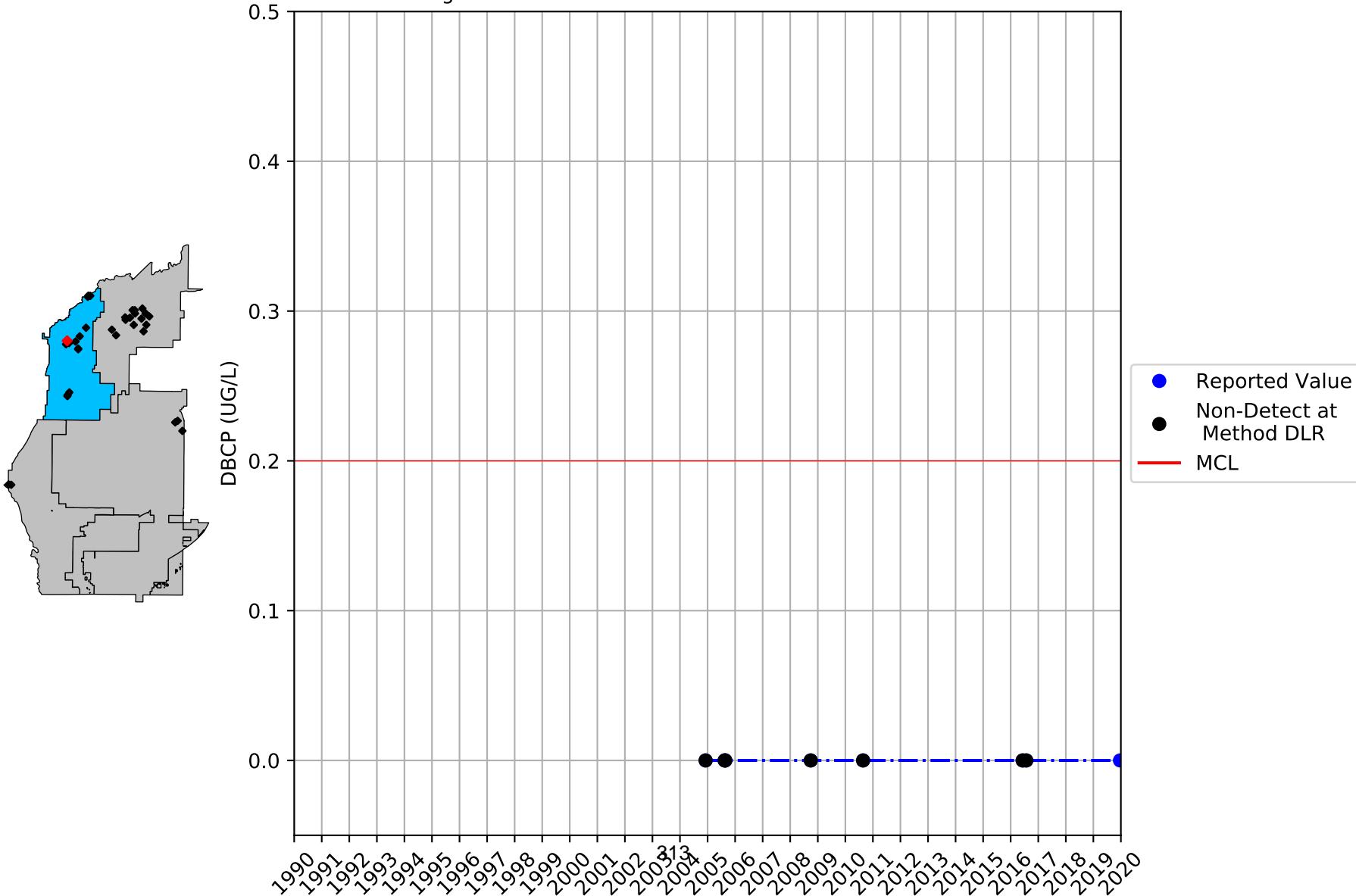
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1610005-010 WELL 11 - RAW
South Fork Kings GSA



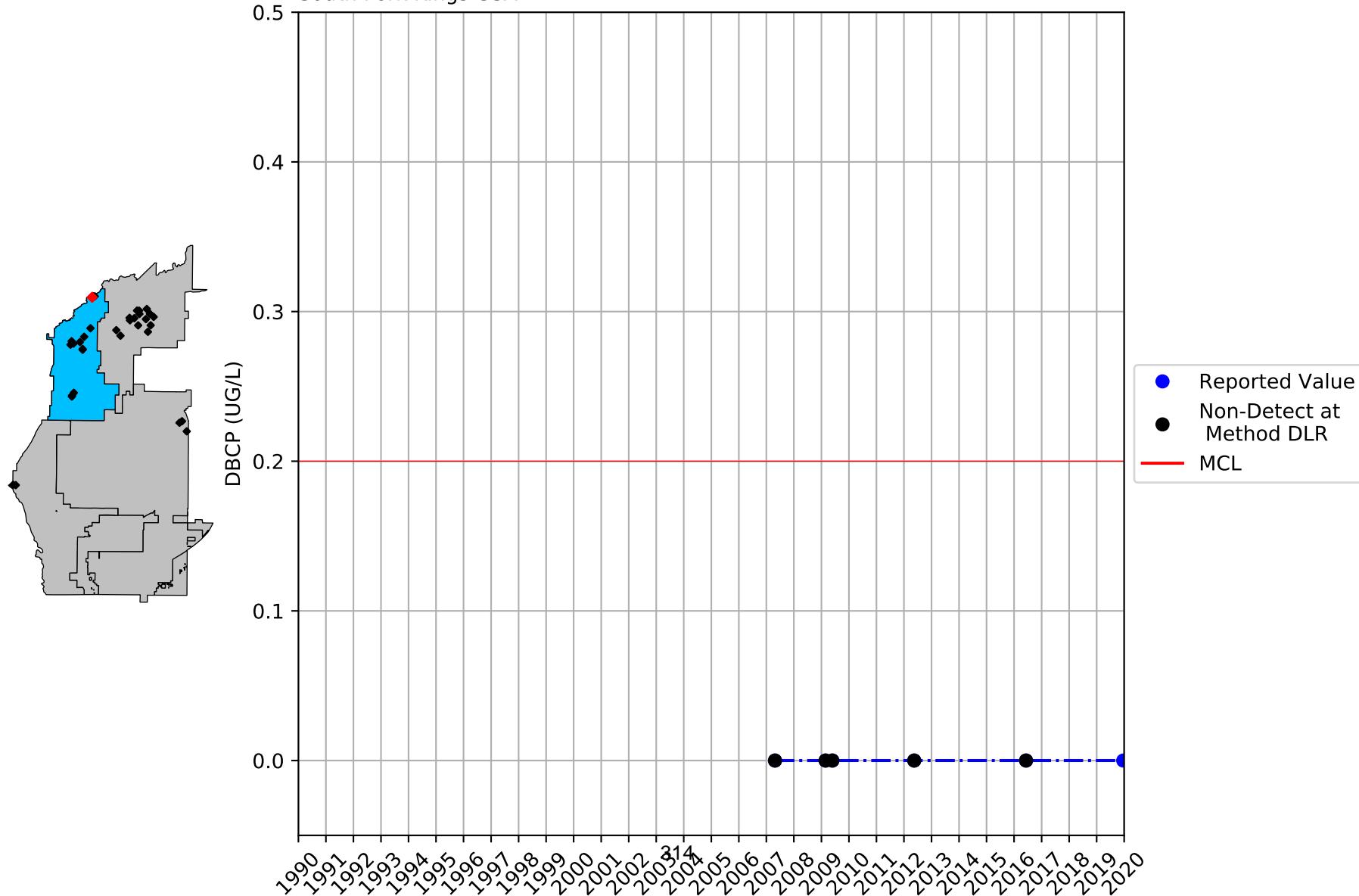
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1610005-011 WELL 12 - RAW
South Fork Kings GSA



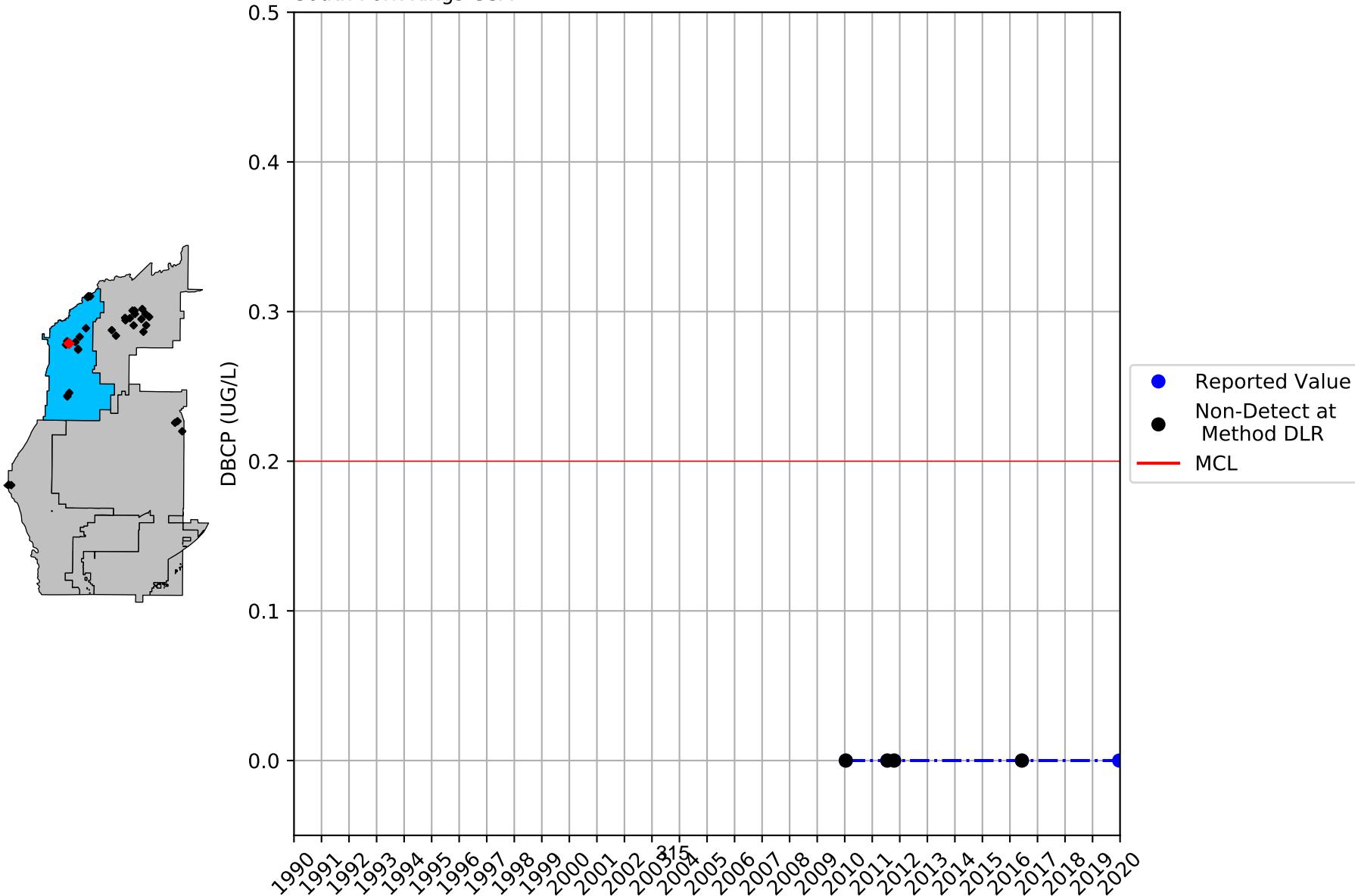
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1610005-018 WELL 07 - RAW
South Fork Kings GSA



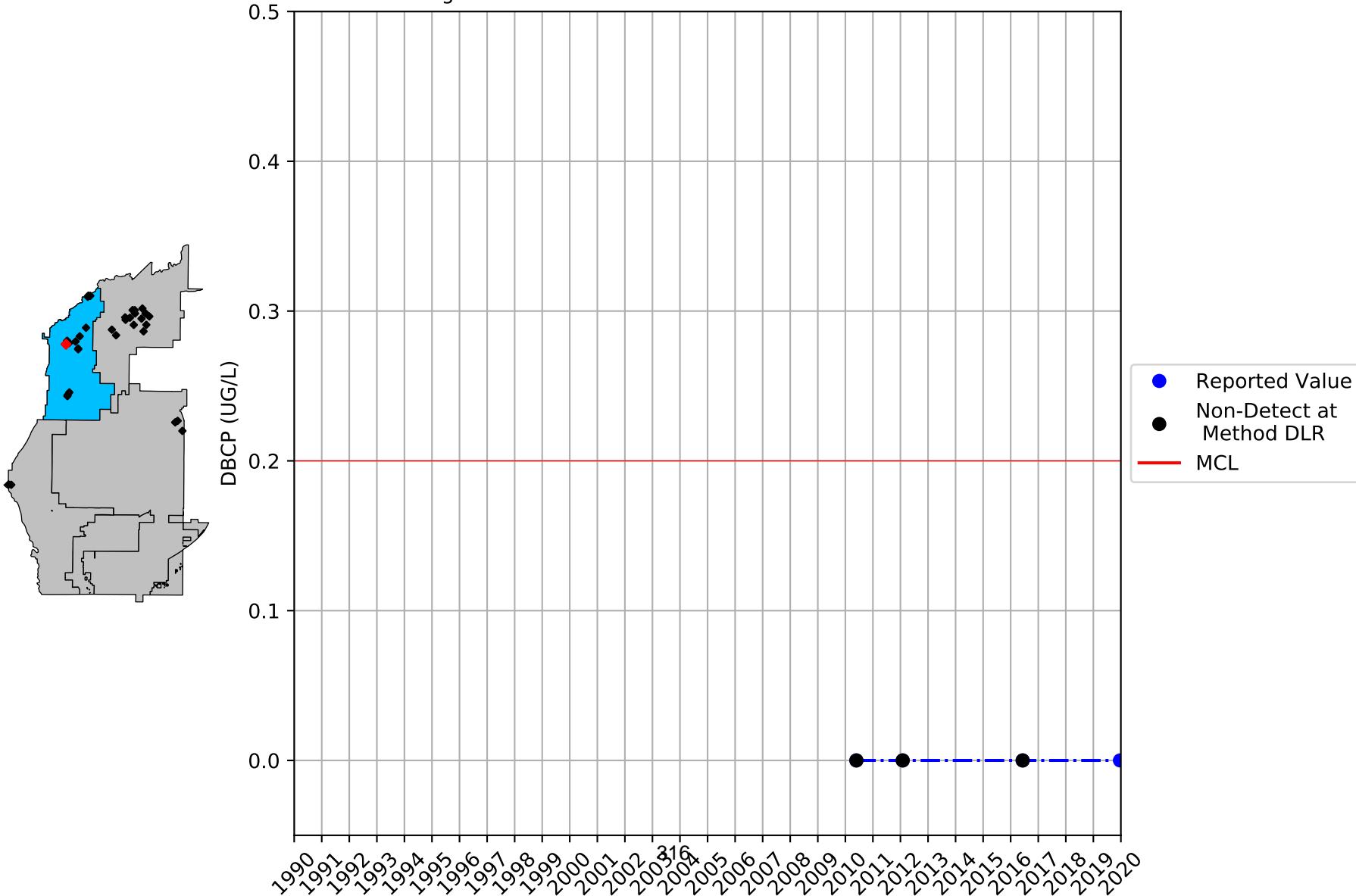
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South Fork Kings GSA



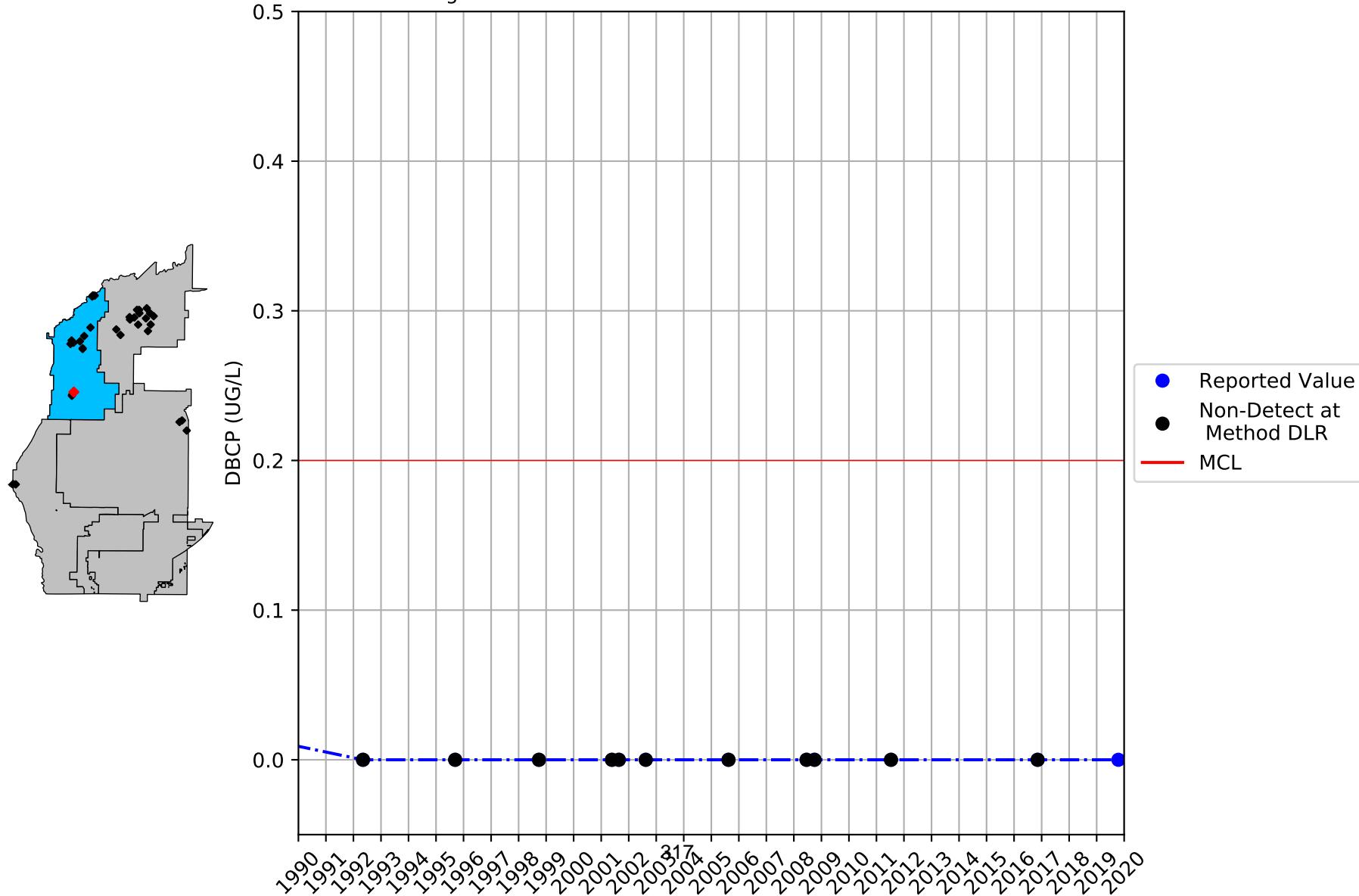
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1610005-021 WELL 13 - RAW
South Fork Kings GSA



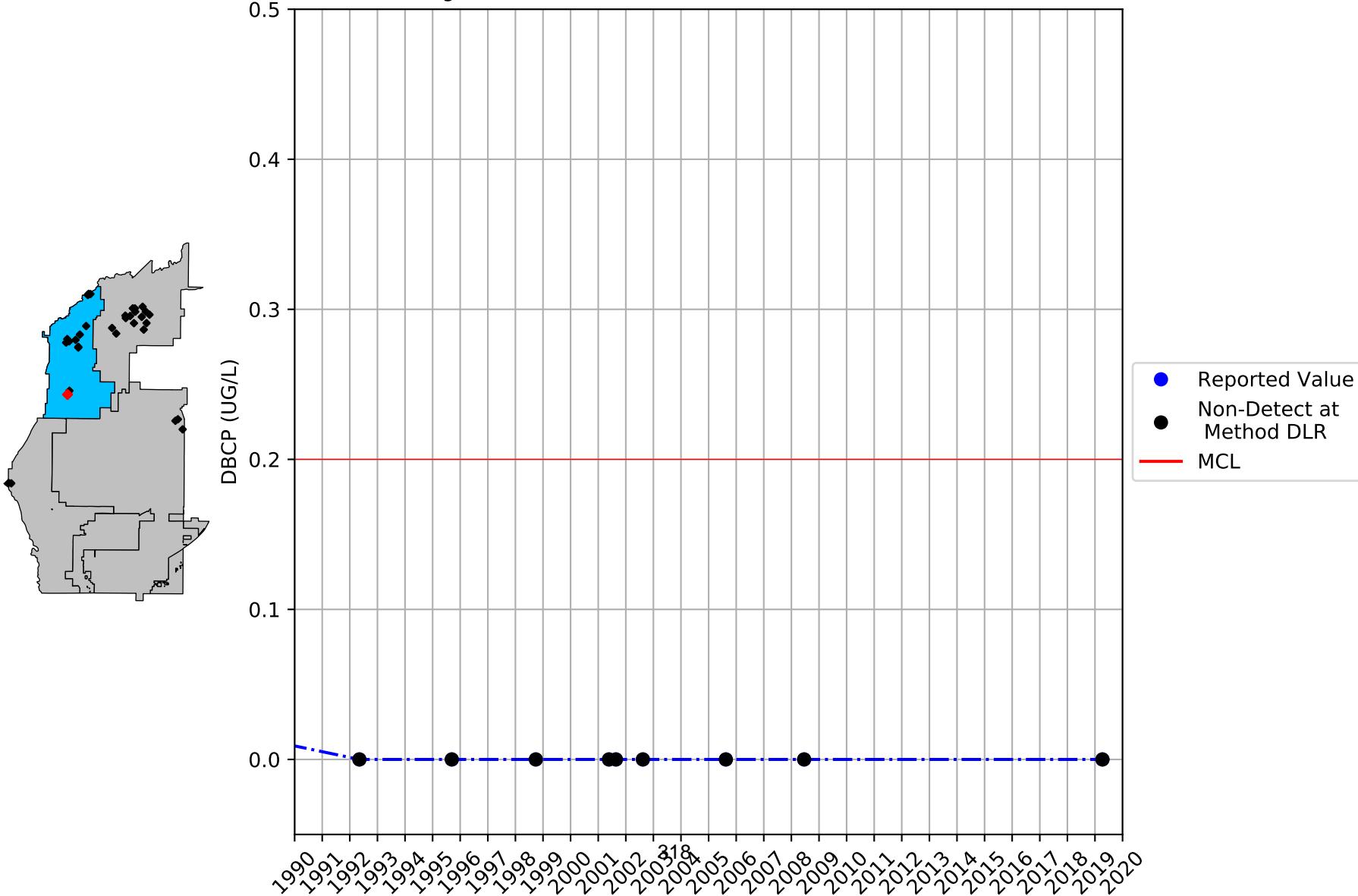
DIBROMOCHLOROPROPANE (DBCP)
1610005-022 WELL 14 - RAW
South Fork Kings GSA



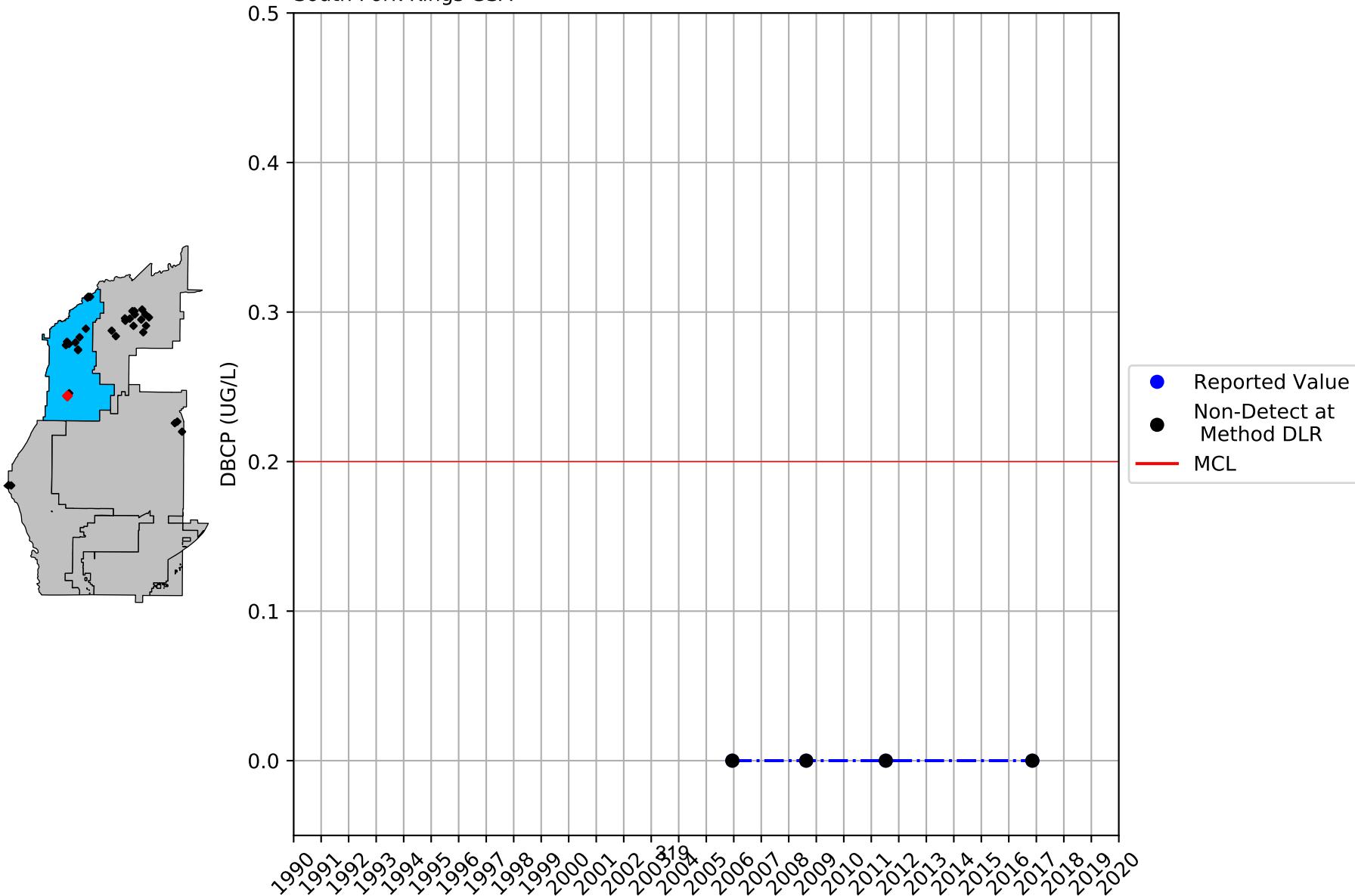
DIBROMOCHLOROPROPANE (DBCP)
1610006-001 WELL 05 - RAW
South Fork Kings GSA



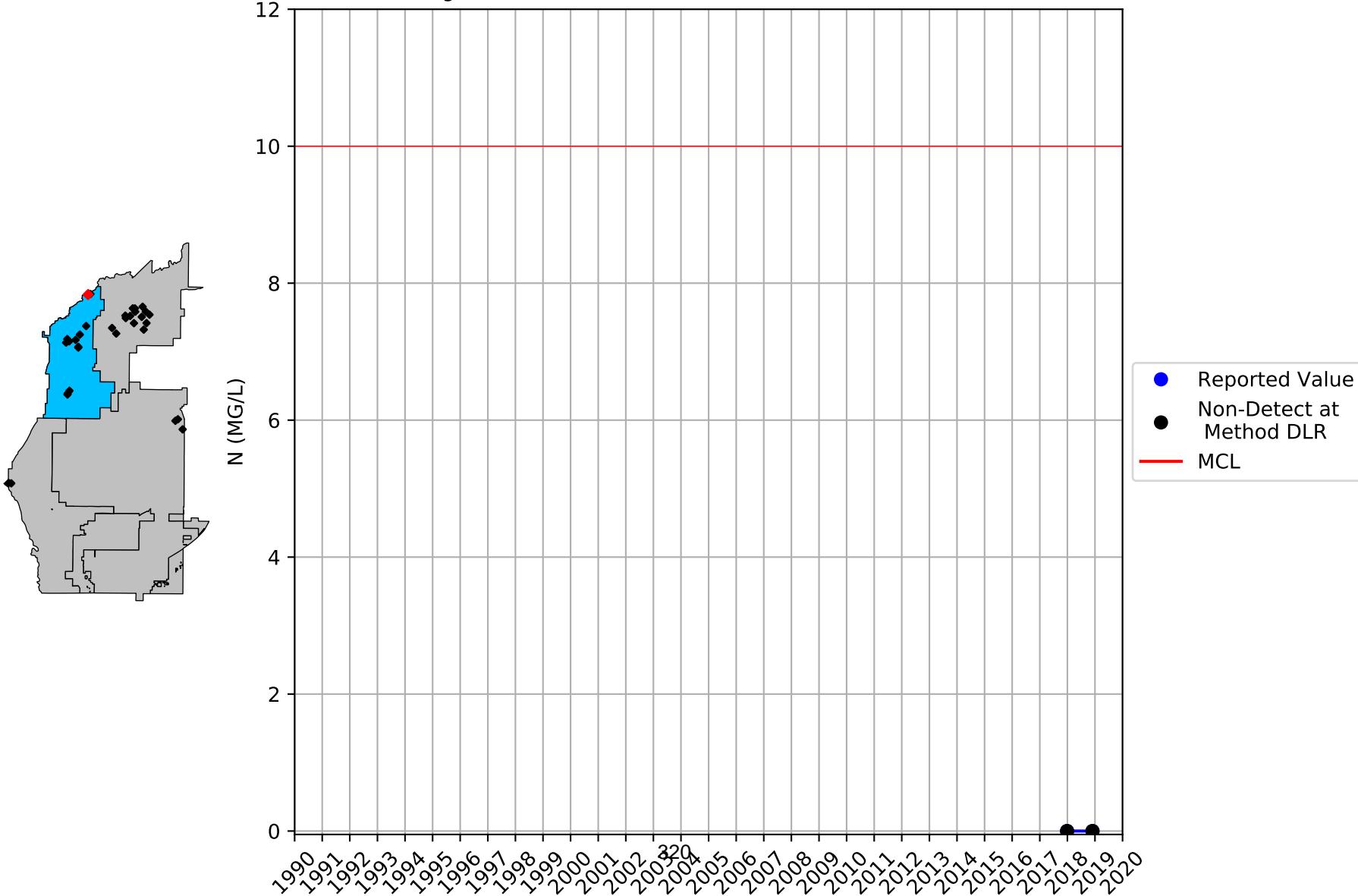
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1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



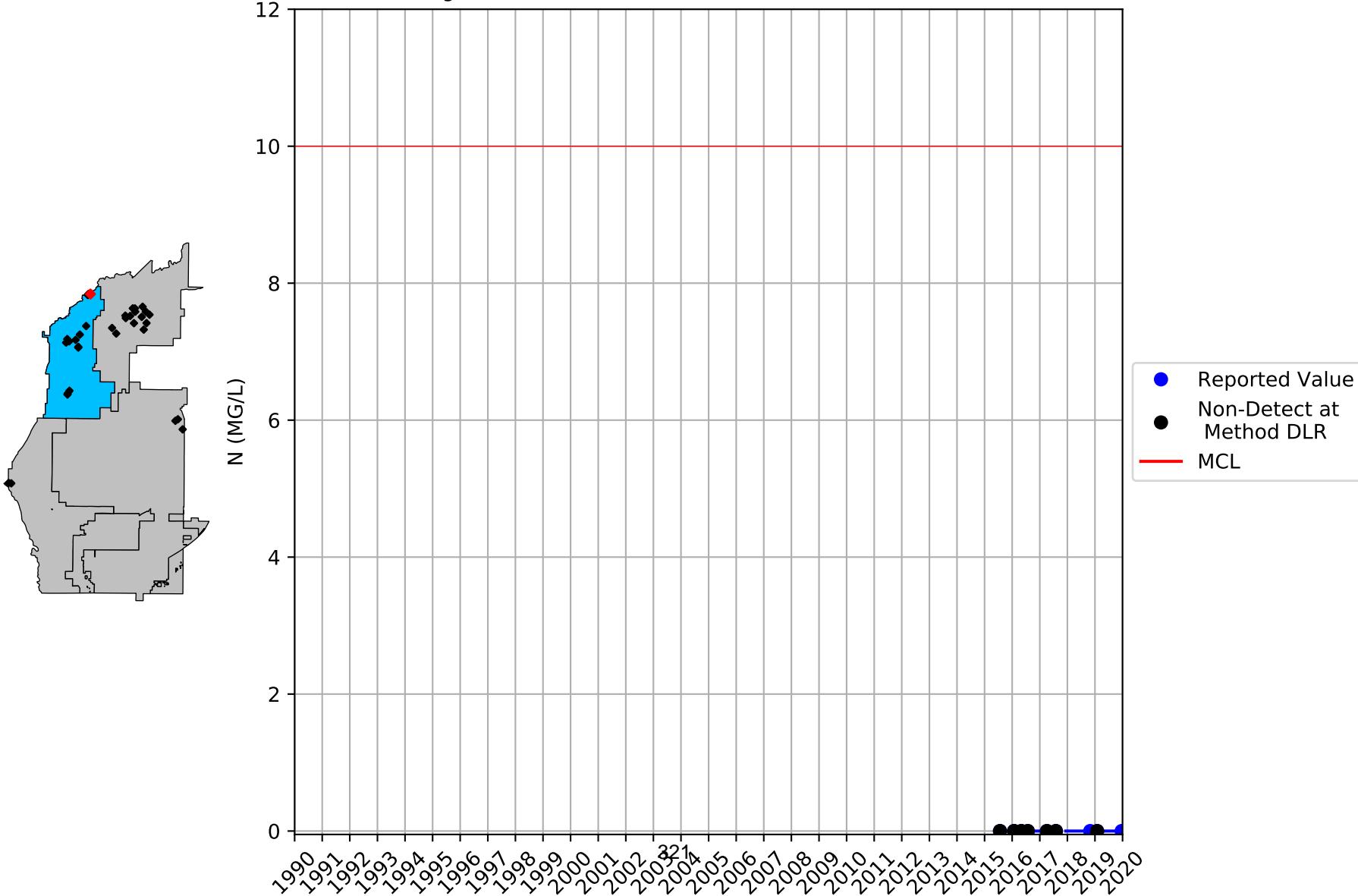
DIBROMOCHLOROPROPANE (DBCP)
1610006-005 WELL 07 - RAW
South Fork Kings GSA



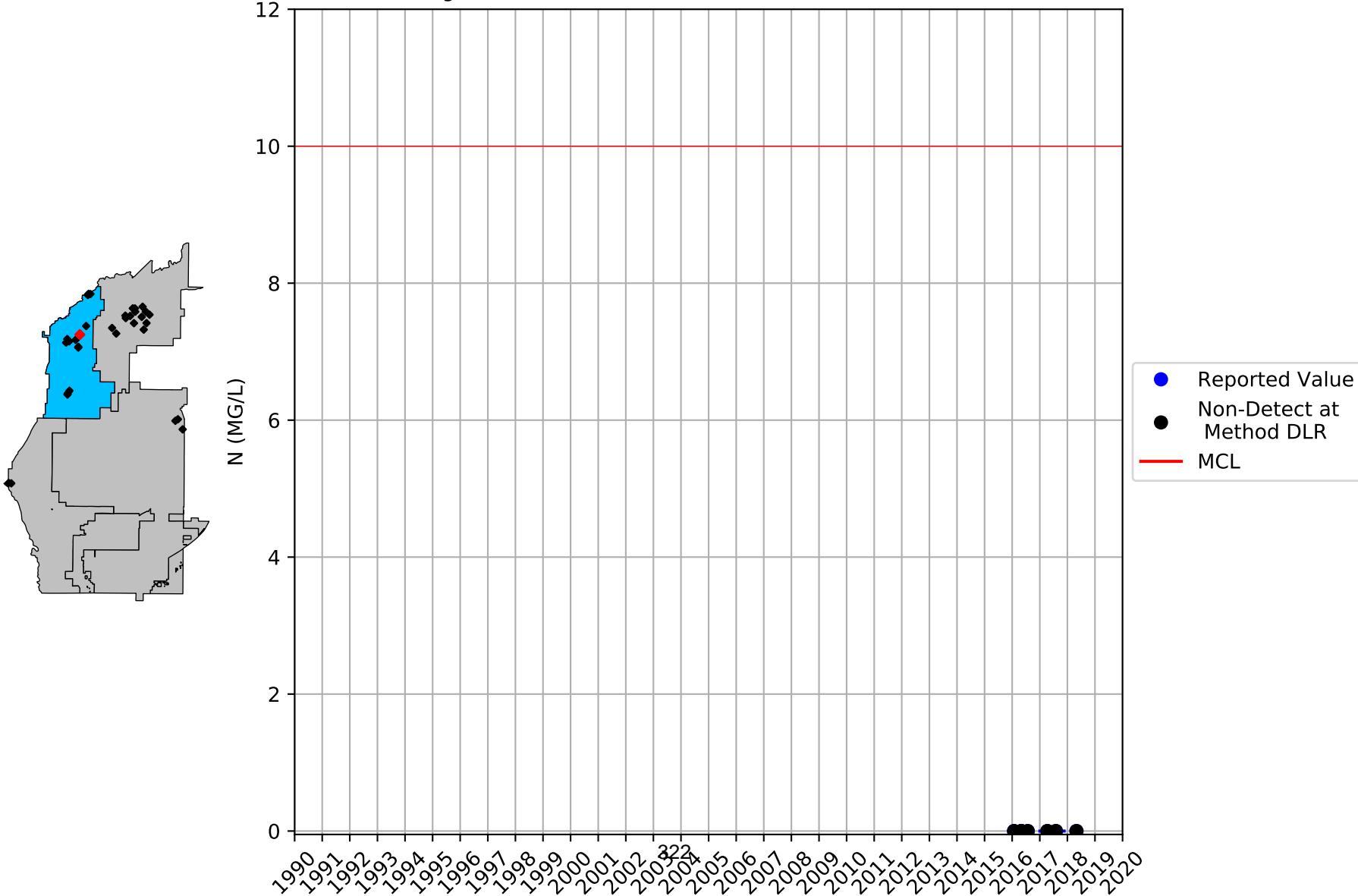
NITRATE (AS N)
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South Fork Kings GSA



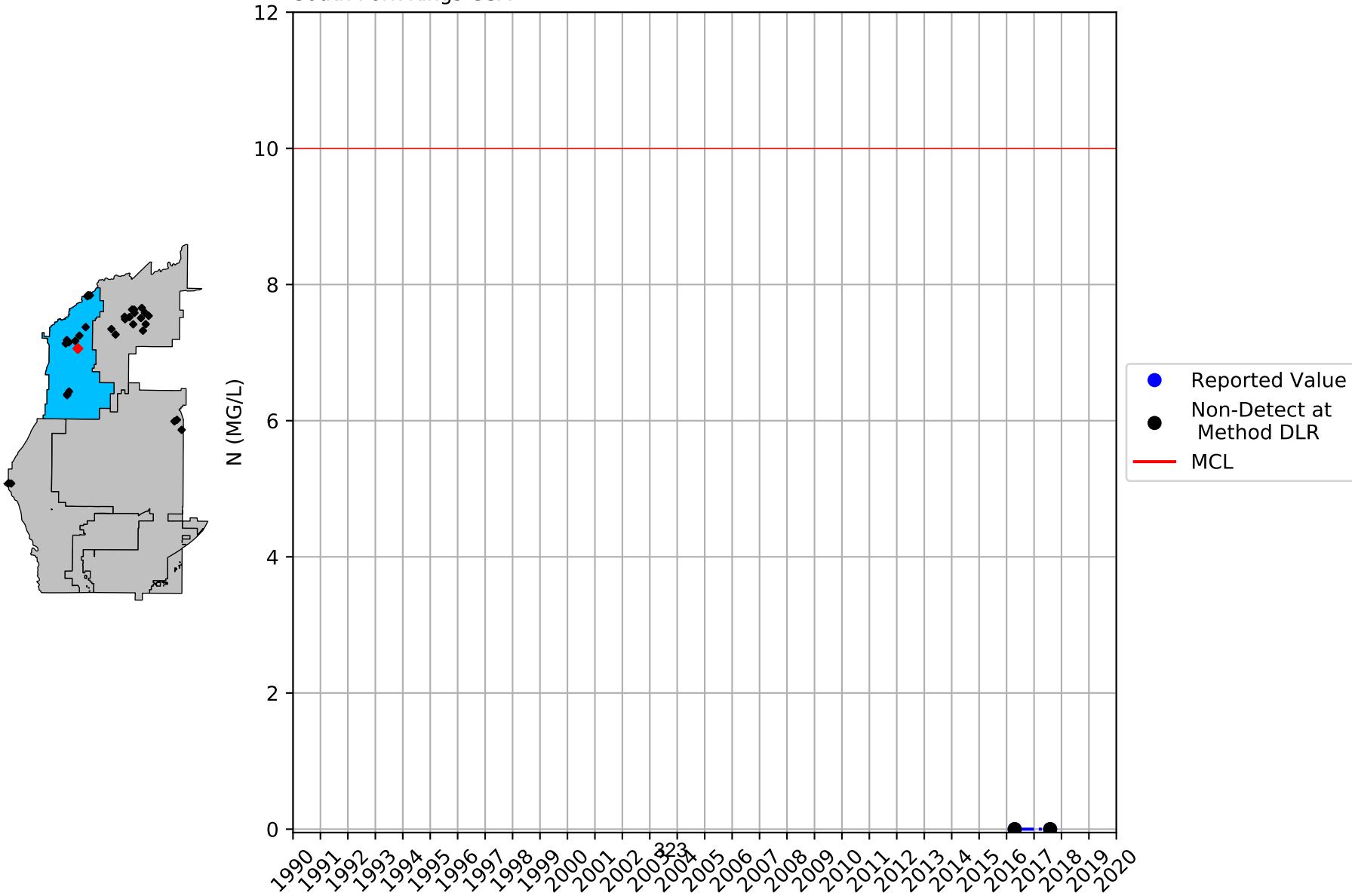
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South Fork Kings GSA



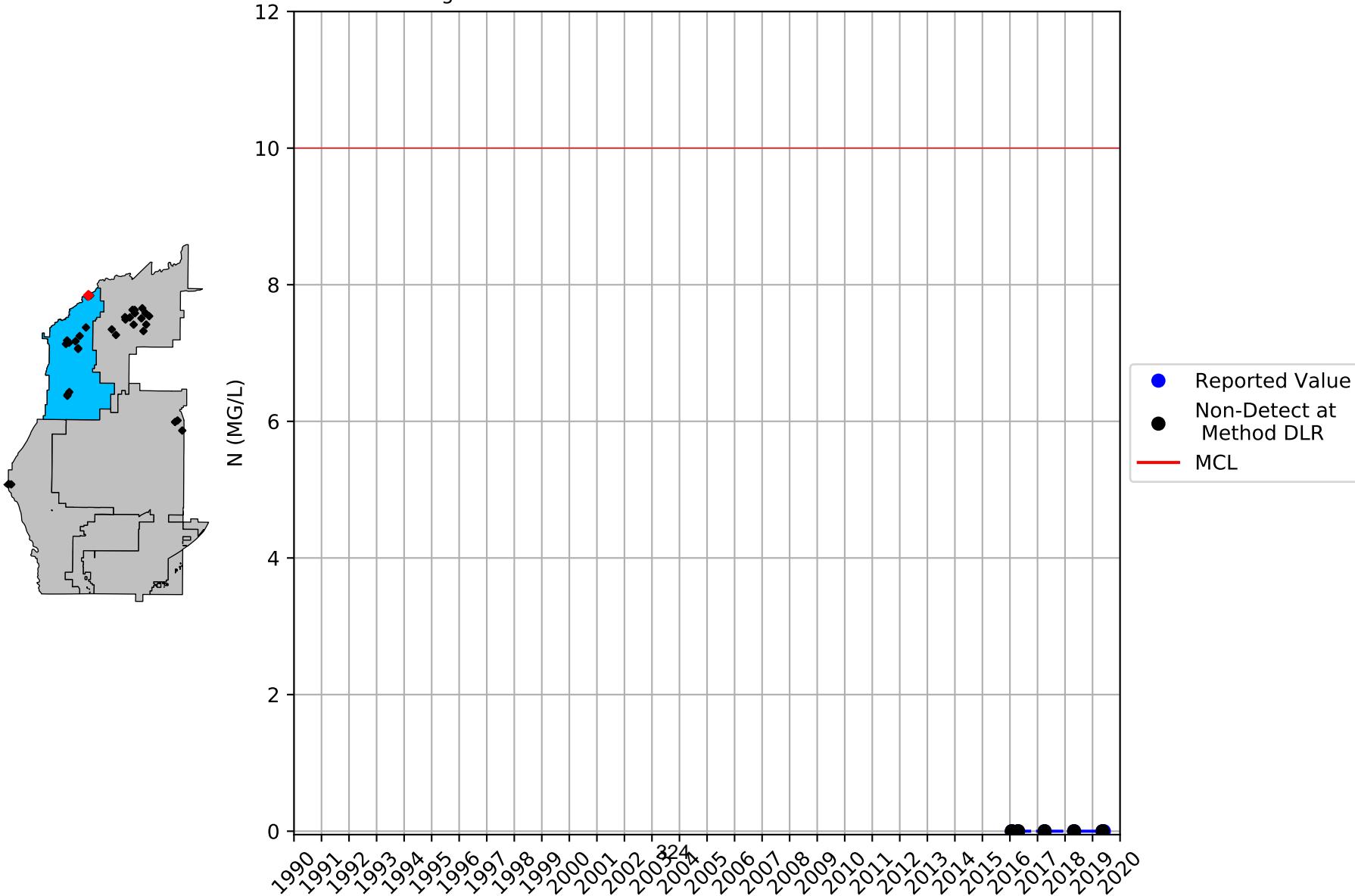
NITRATE (AS N)
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South Fork Kings GSA



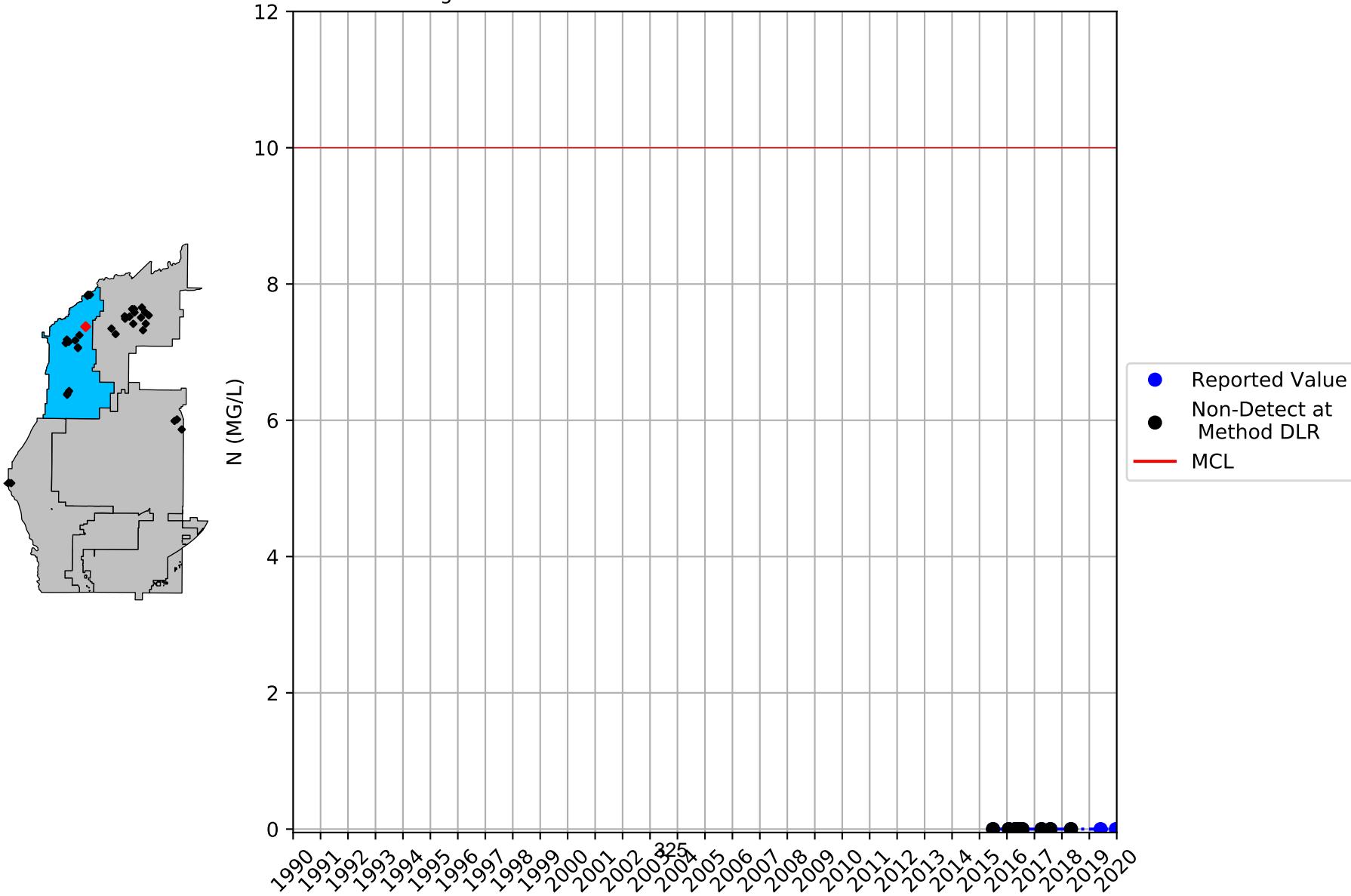
NITRATE (AS N)
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South Fork Kings GSA



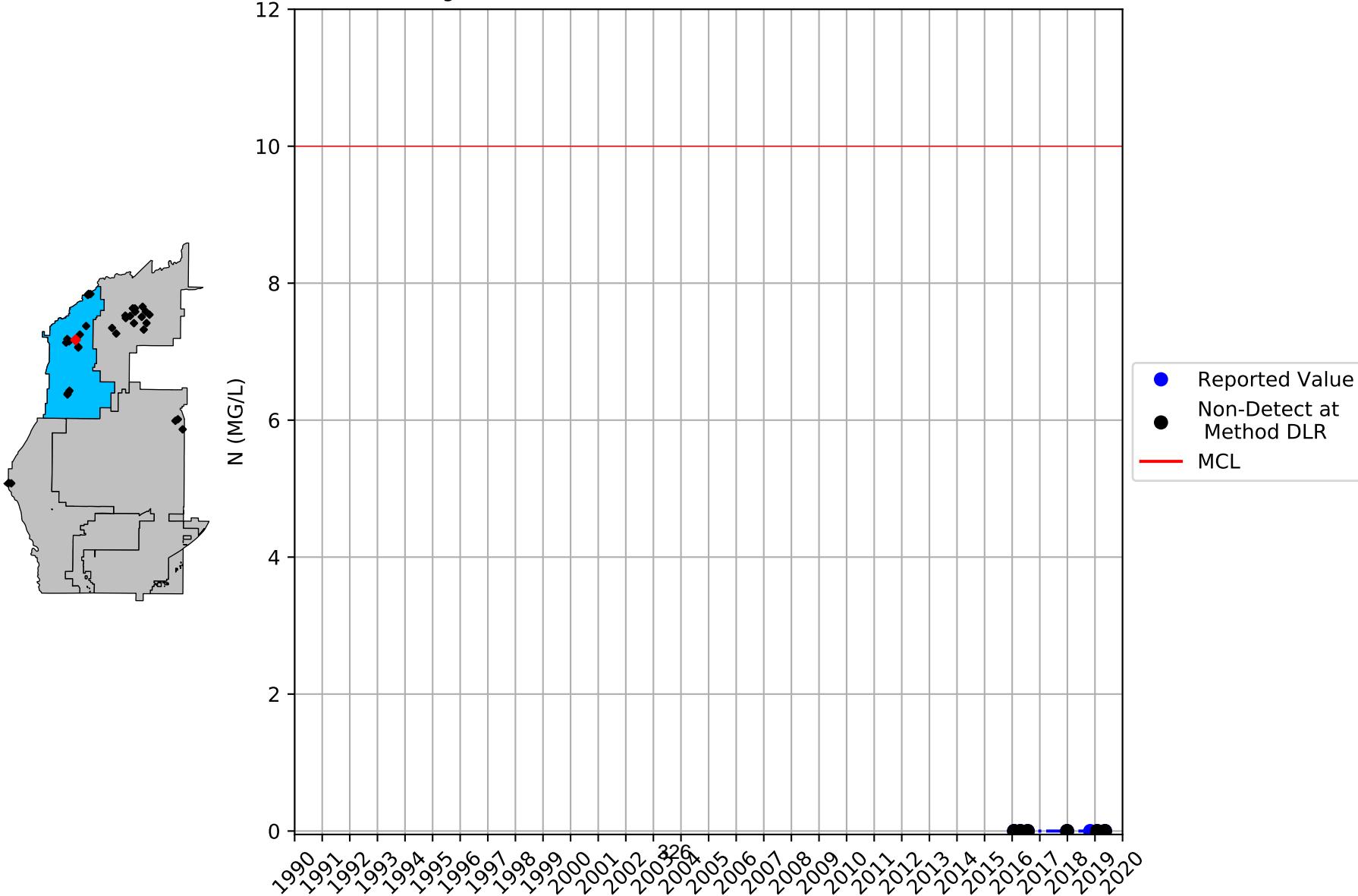
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South Fork Kings GSA



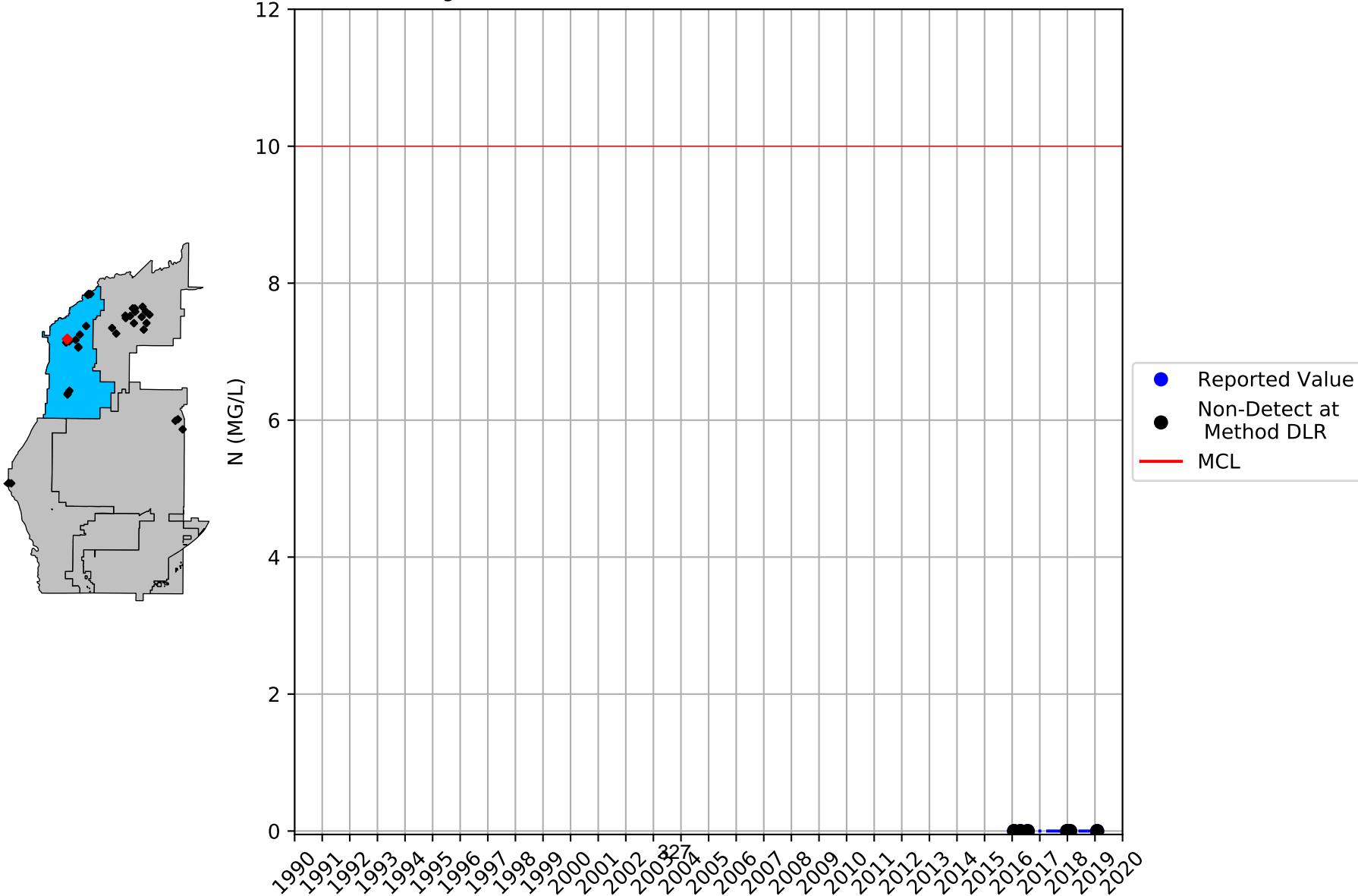
NITRATE (AS N)
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South Fork Kings GSA



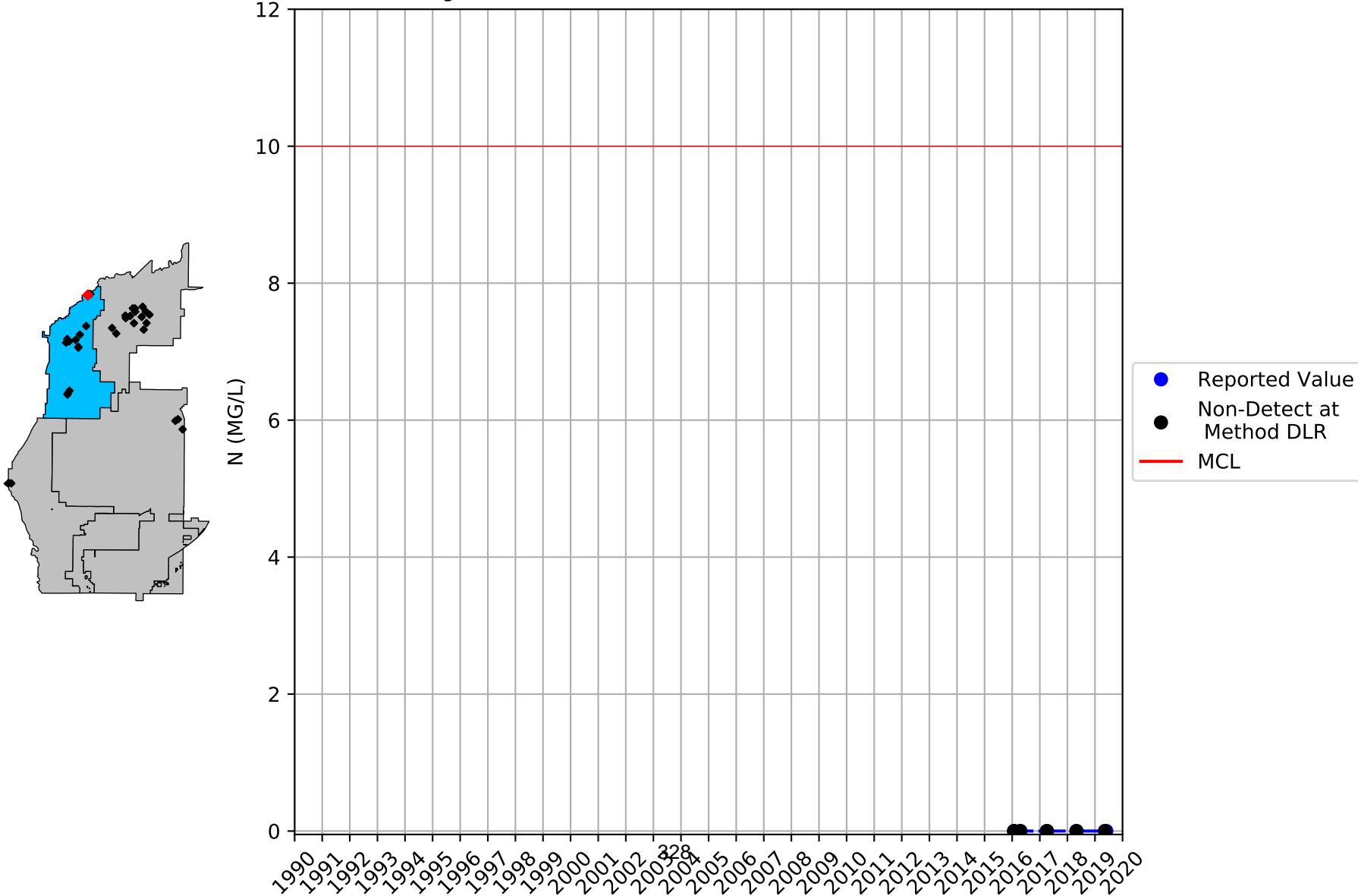
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South Fork Kings GSA



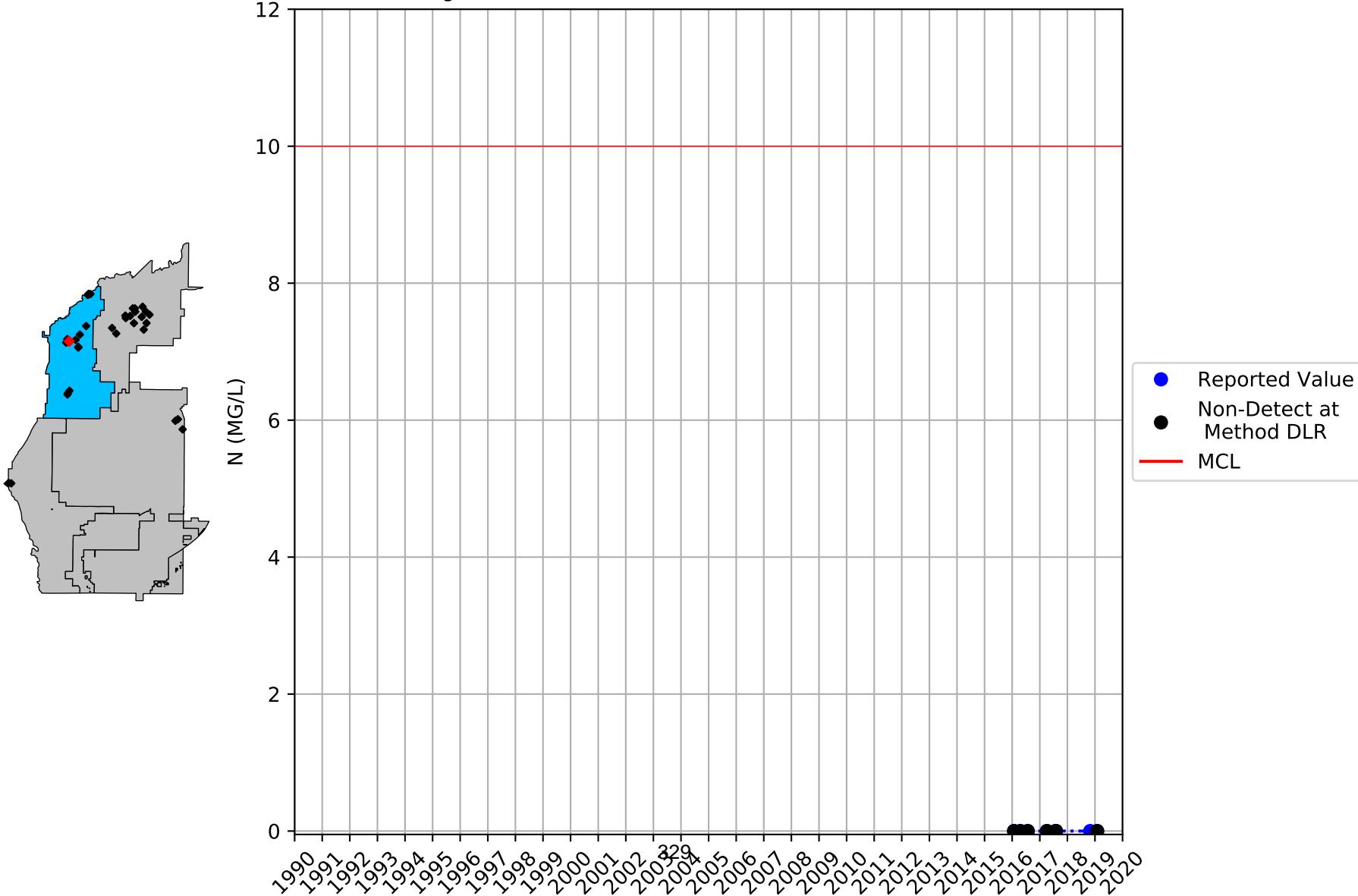
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South Fork Kings GSA



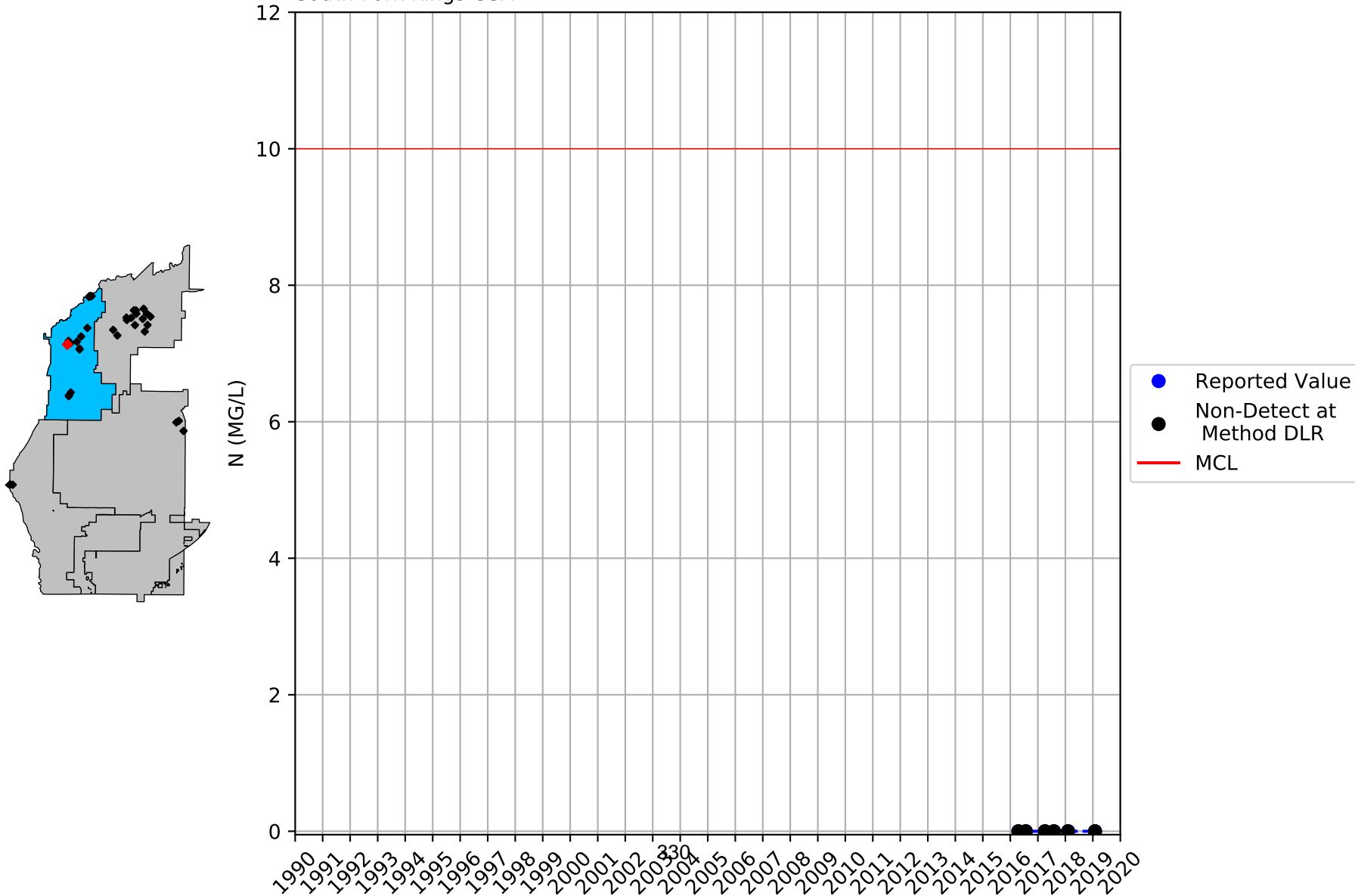
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South Fork Kings GSA



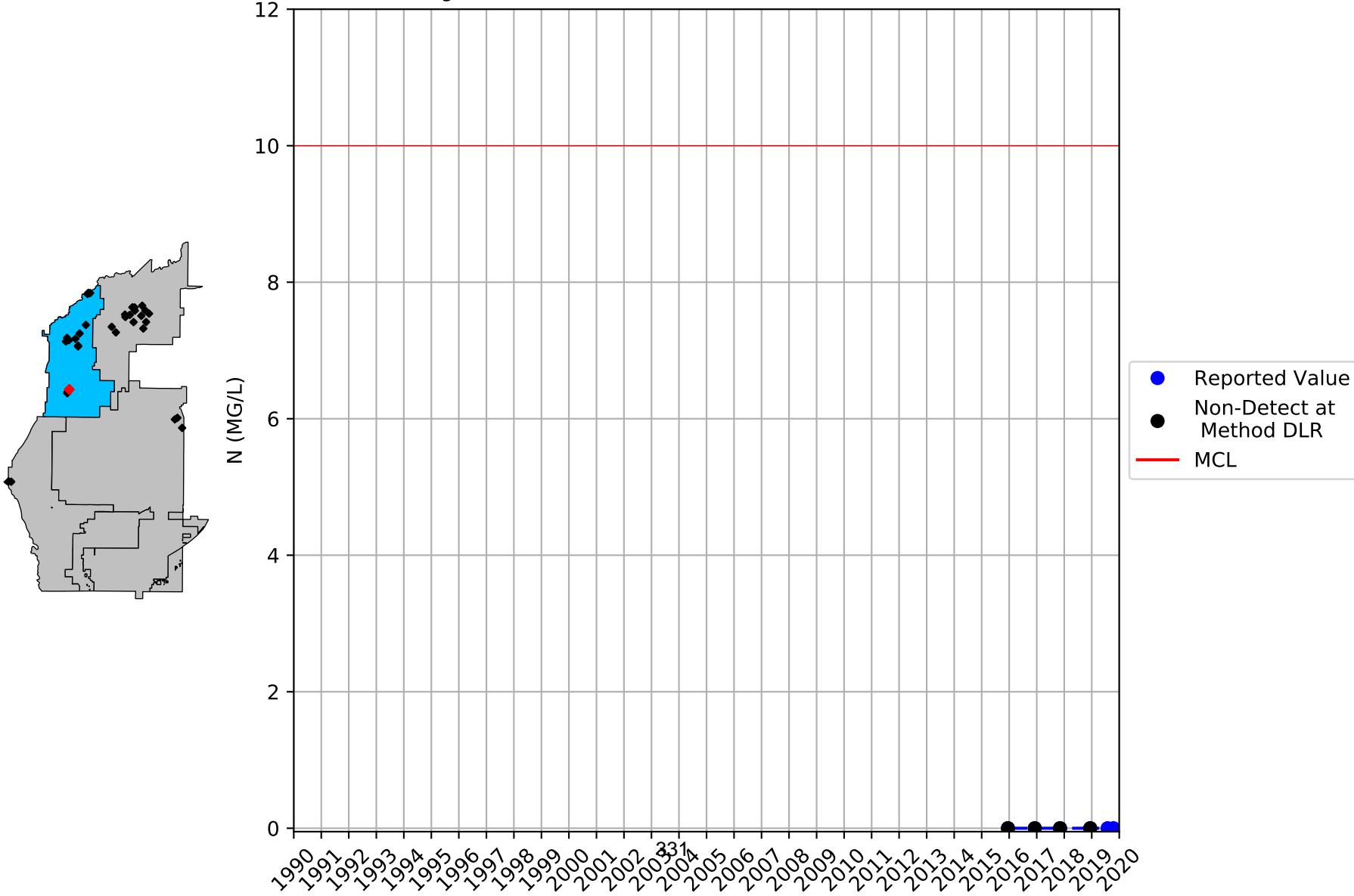
NITRATE (AS N)
1610005-021 WELL 13 - RAW
South Fork Kings GSA



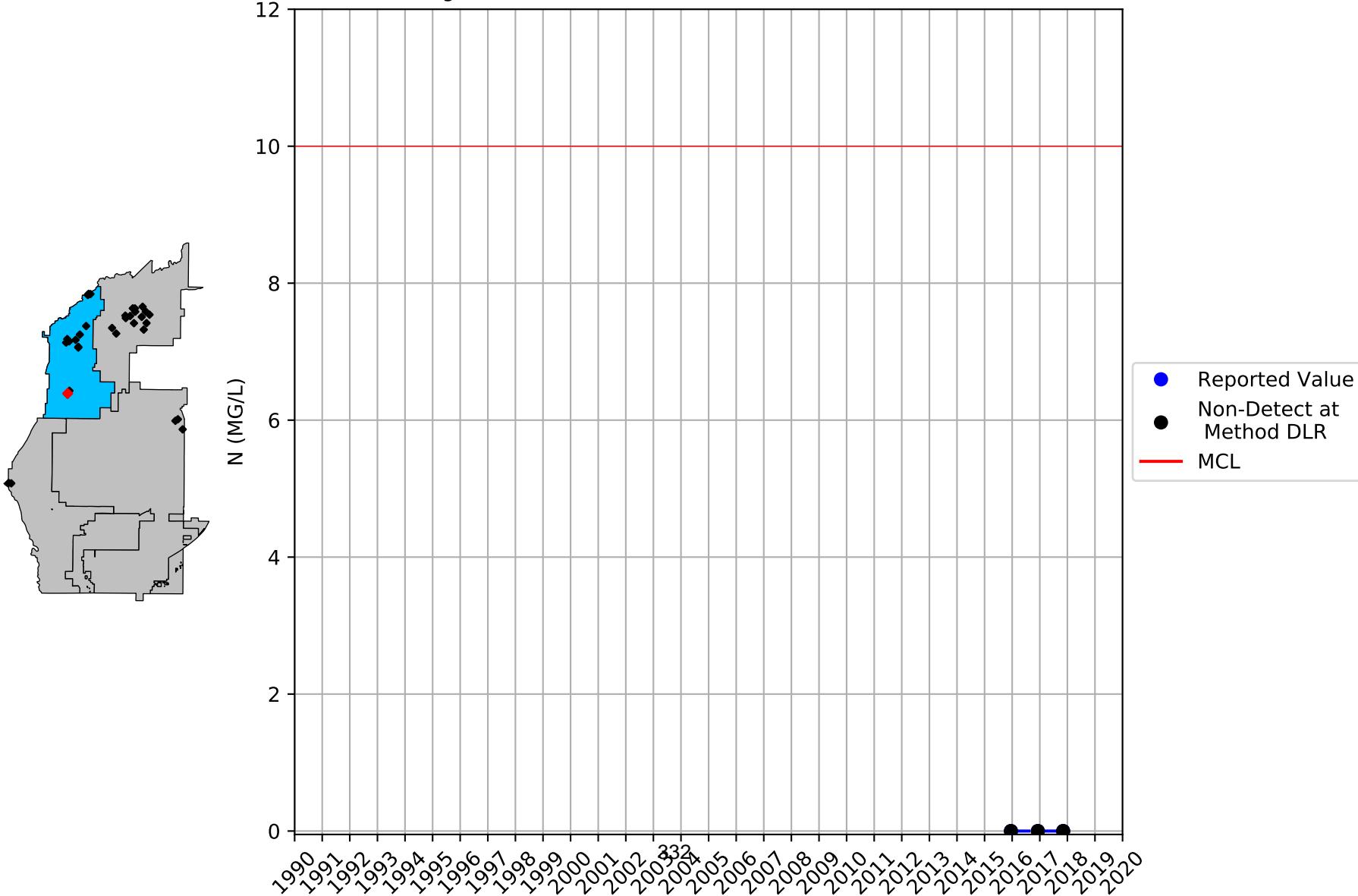
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South Fork Kings GSA



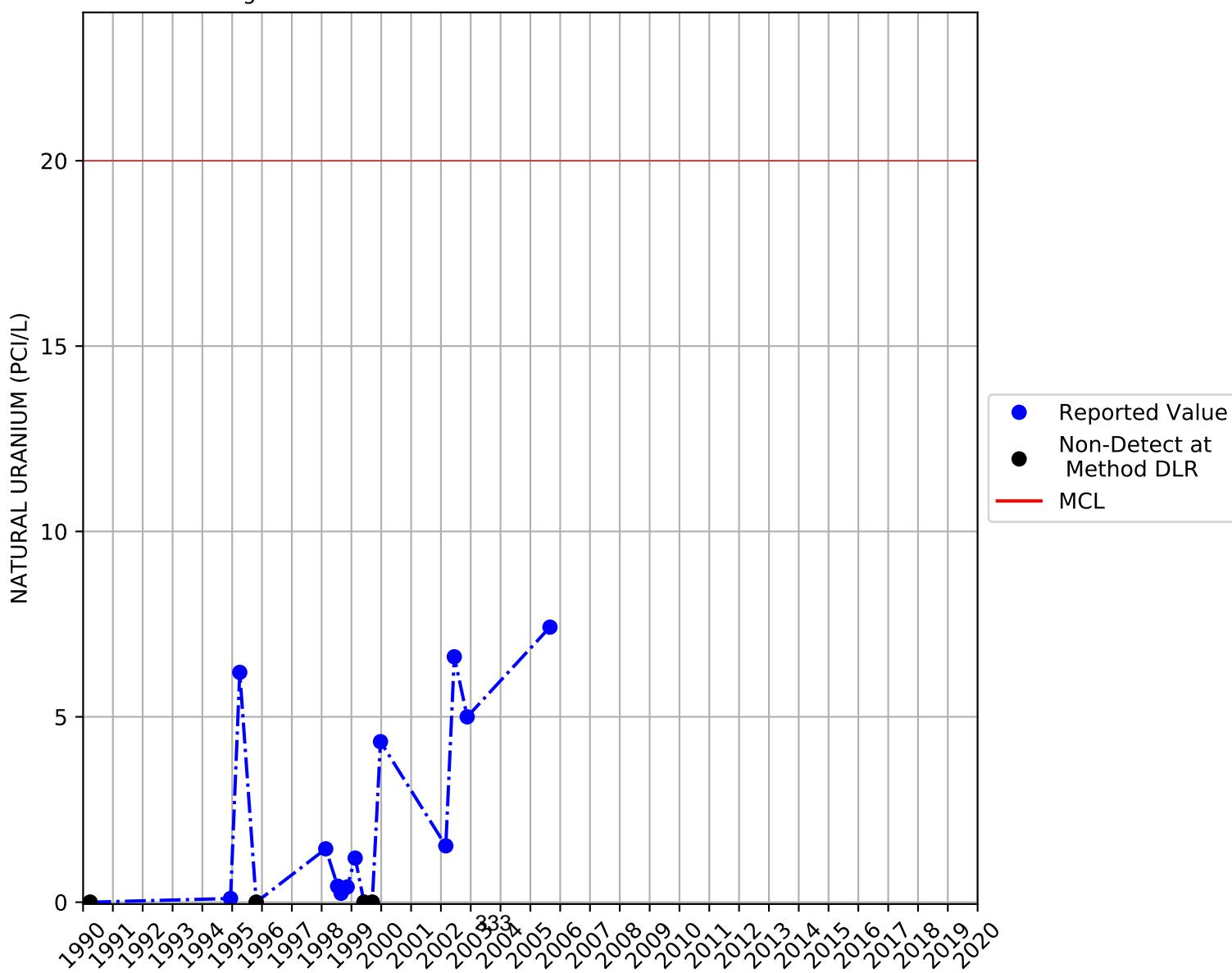
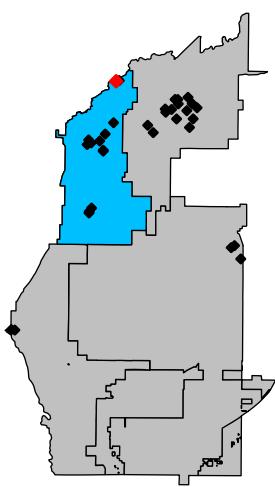
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South Fork Kings GSA



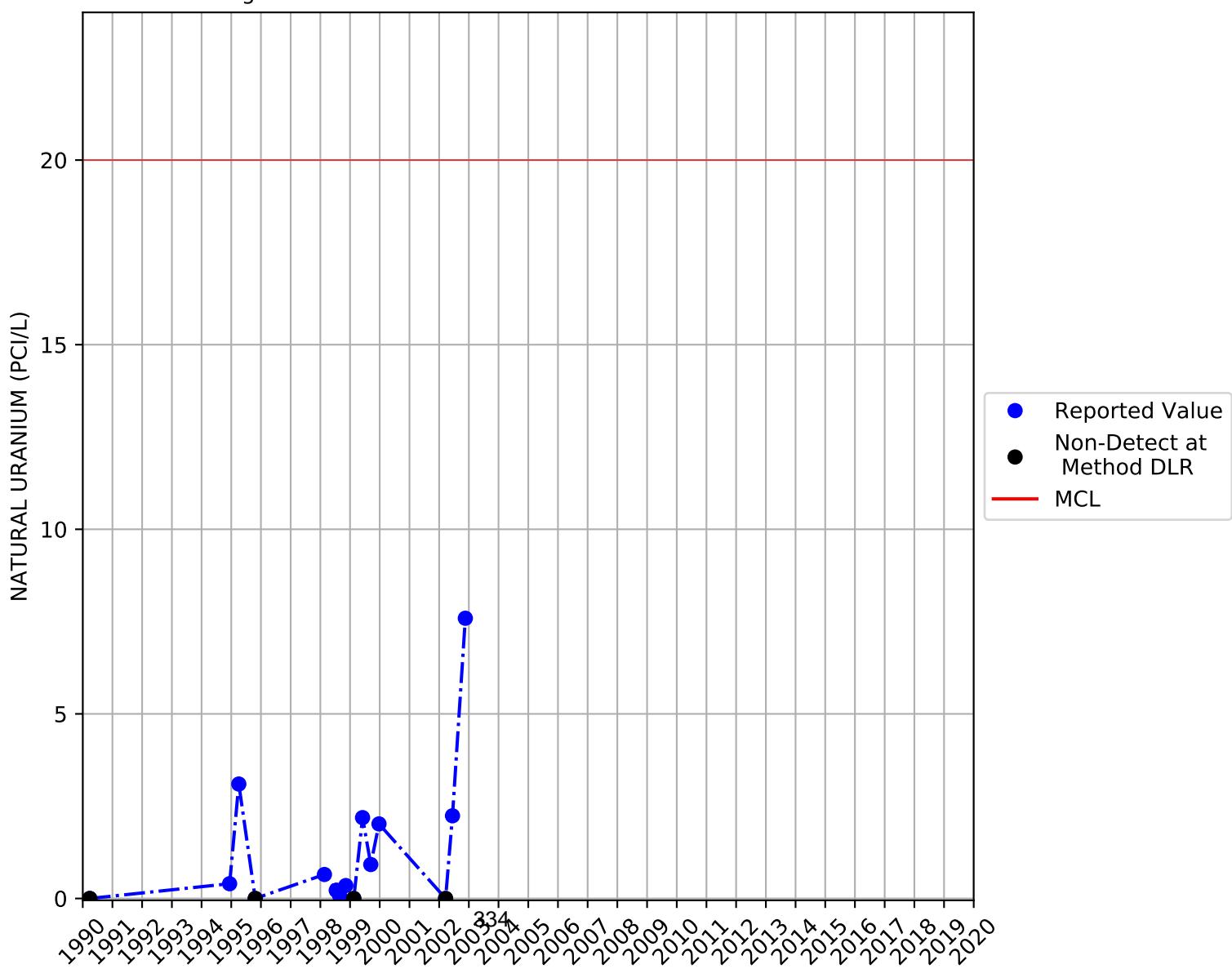
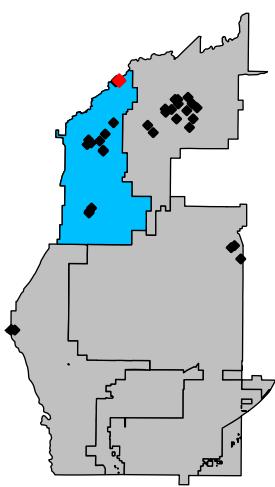
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South Fork Kings GSA



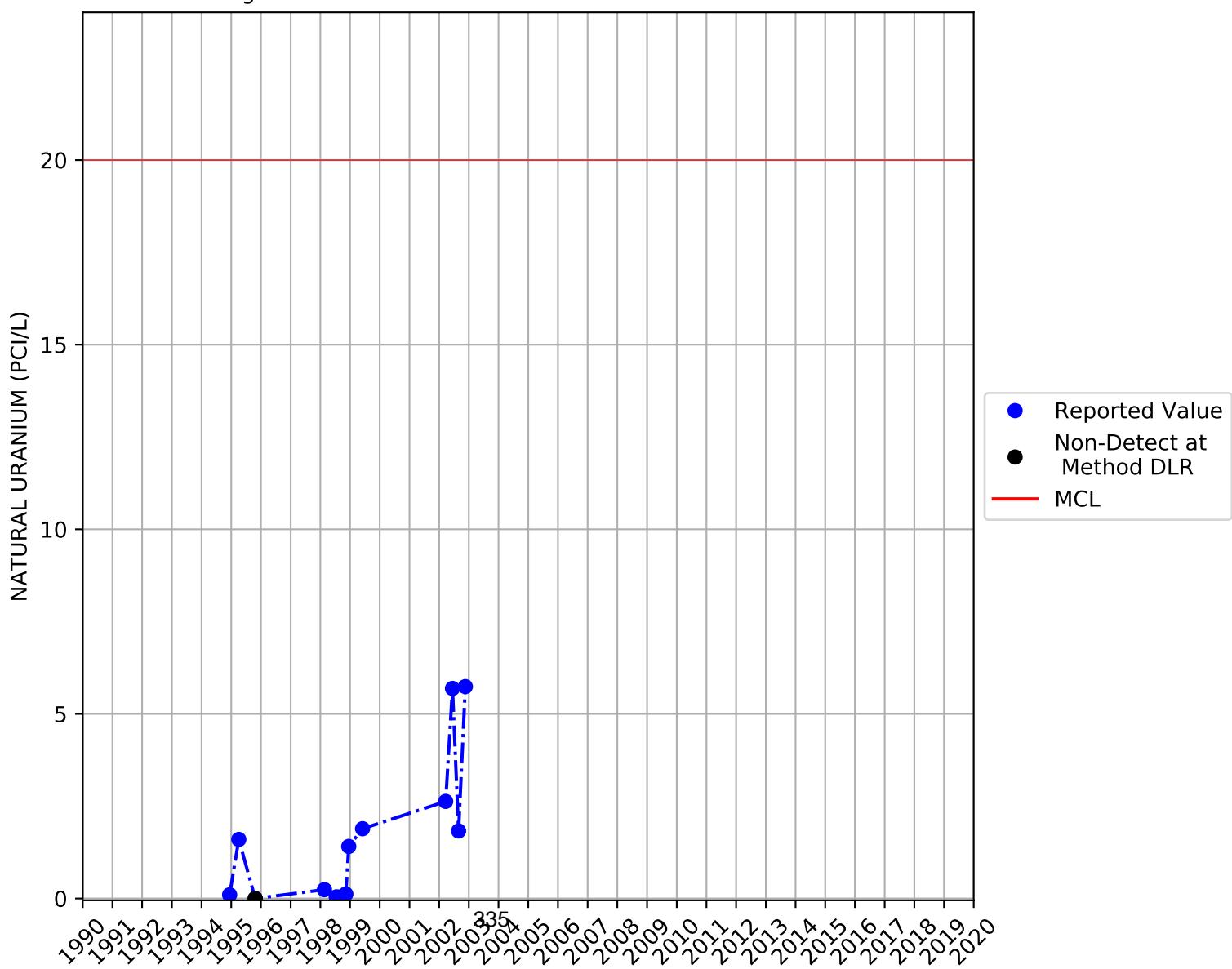
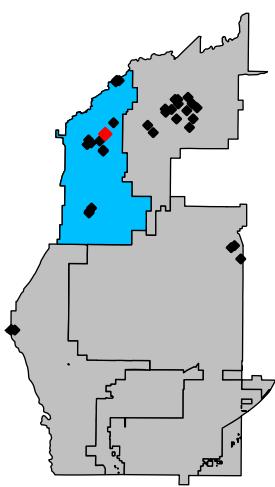
URANIUM (PCI/L)
1610005-003 WELL N-2 - RAW
South Fork Kings GSA



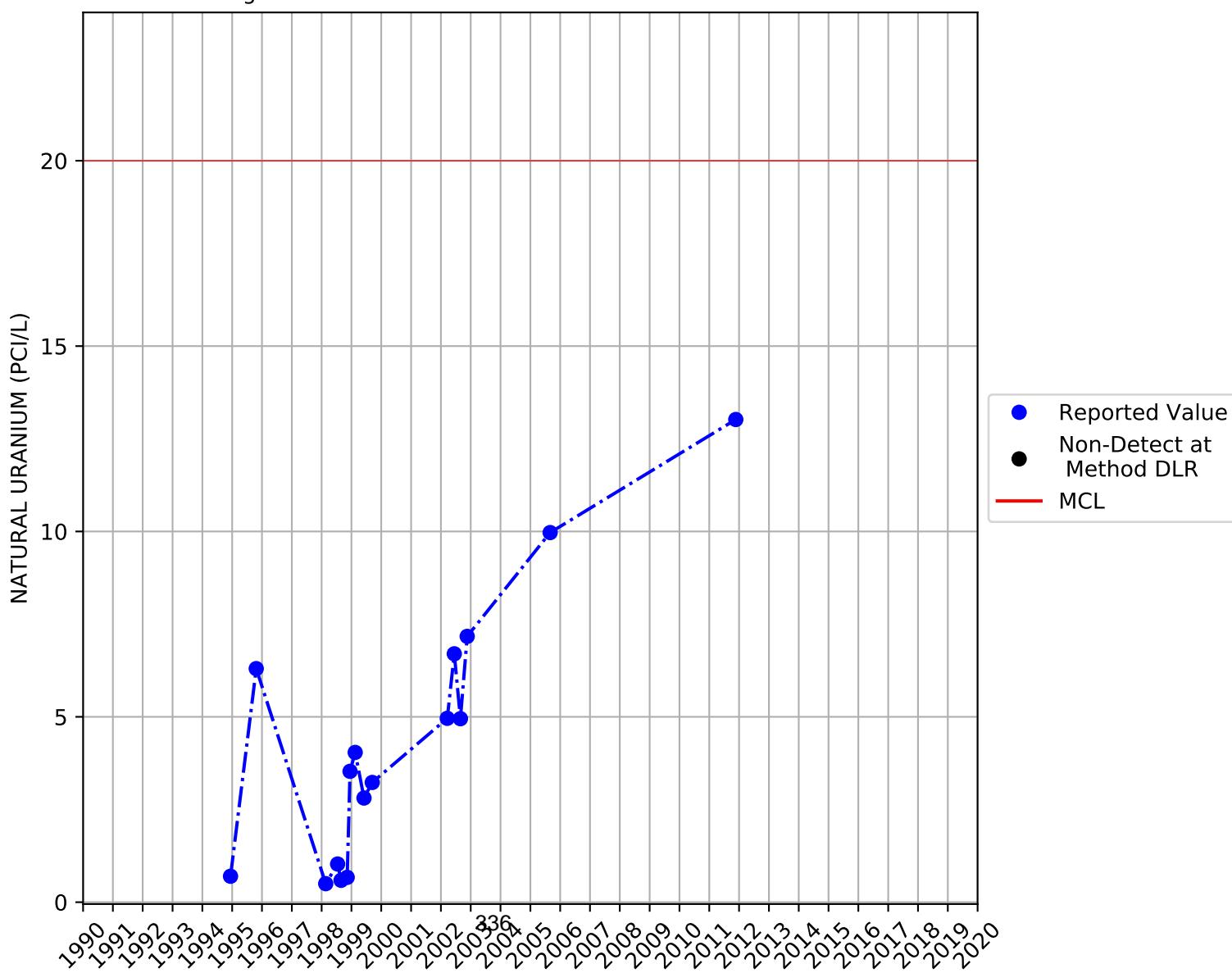
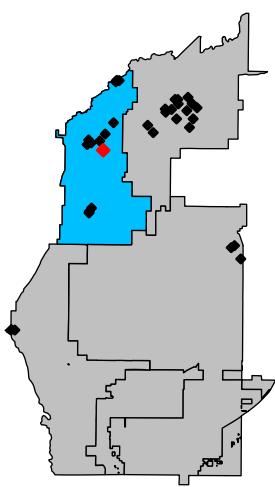
URANIUM (PCI/L)
1610005-005 WELL N-4 - RAW
South Fork Kings GSA



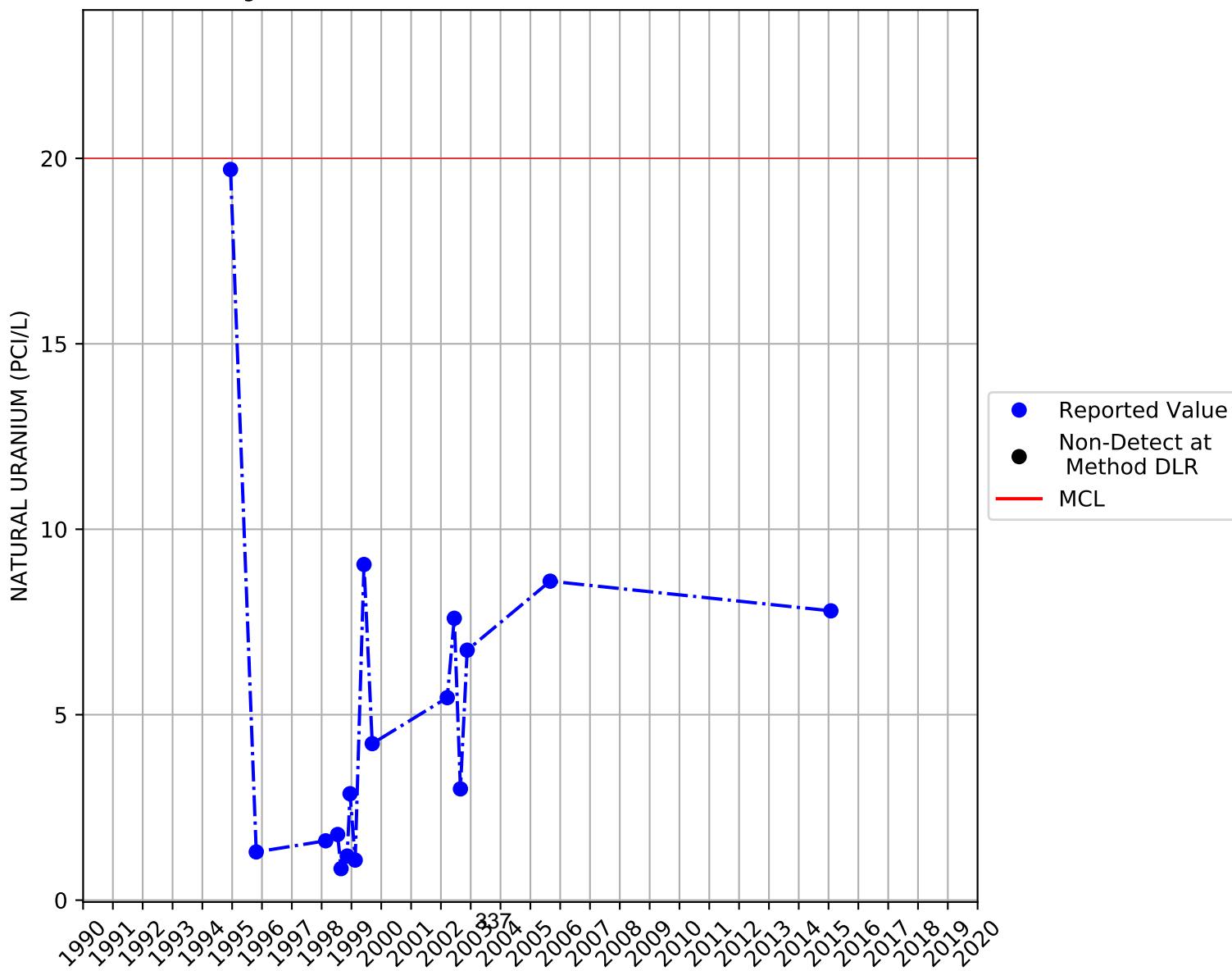
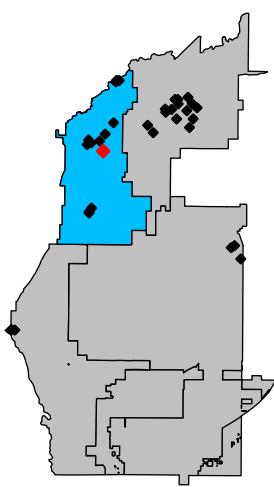
URANIUM (PCI/L)
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South Fork Kings GSA



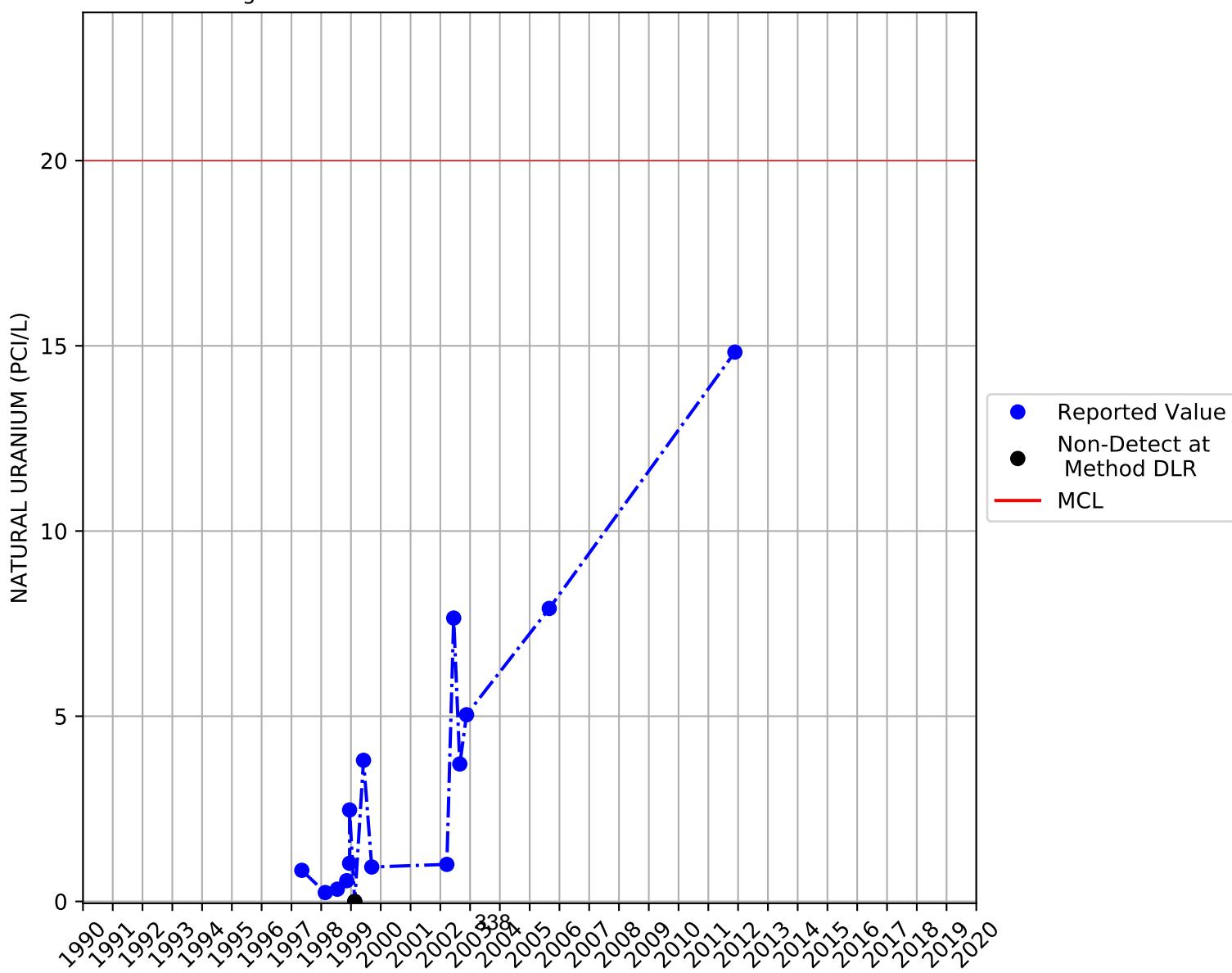
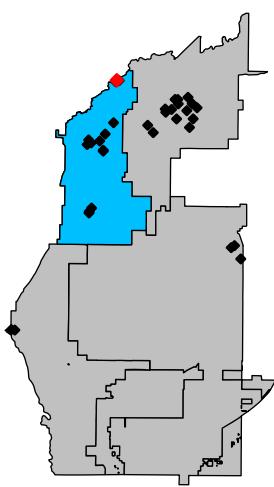
URANIUM (PCI/L)
1610005-007 WELL 08 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



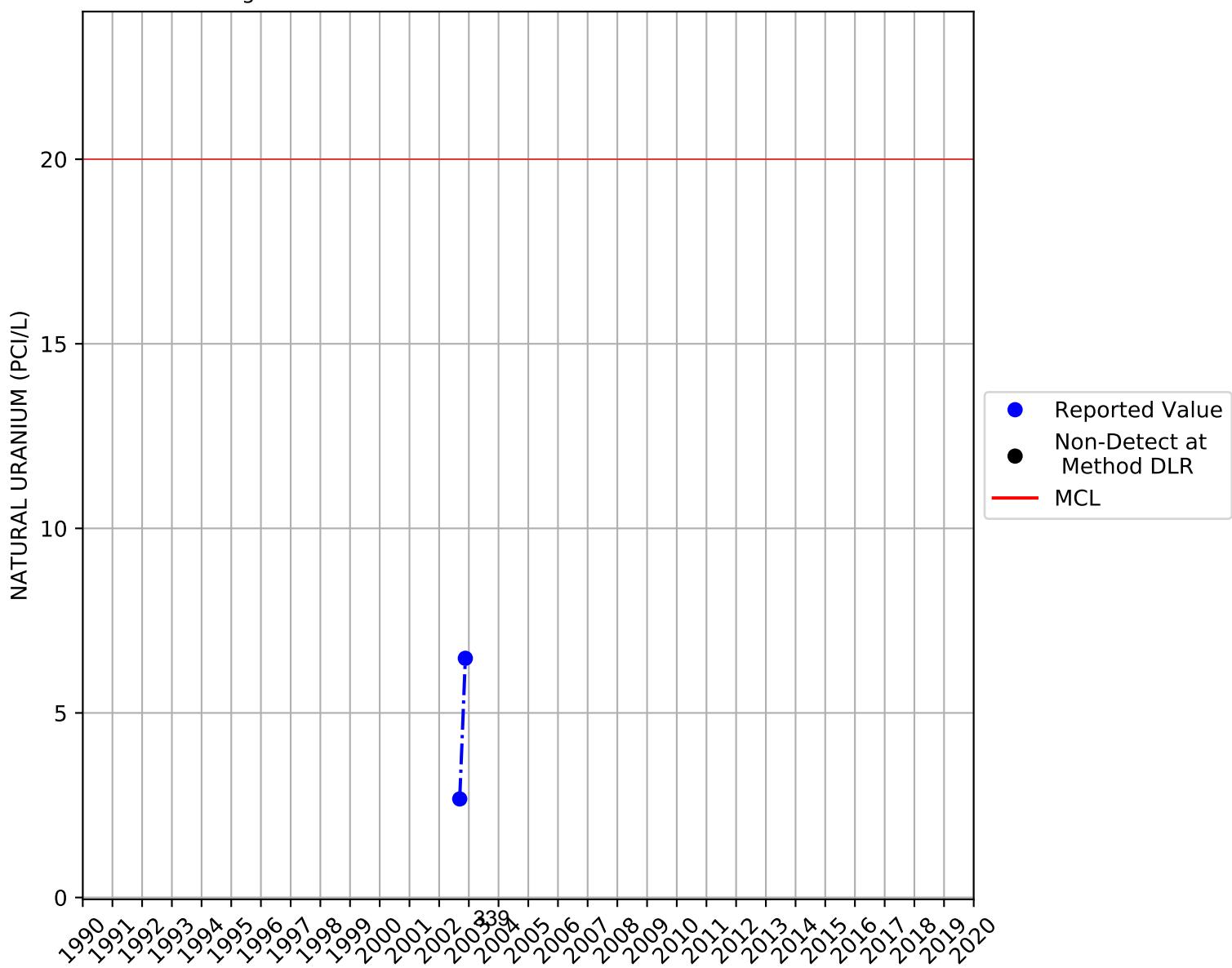
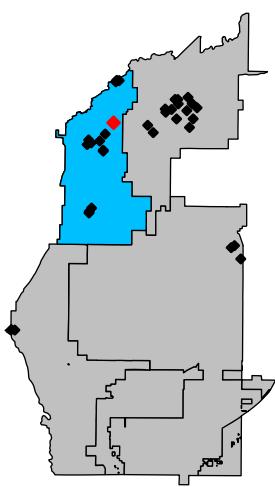
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South Fork Kings GSA



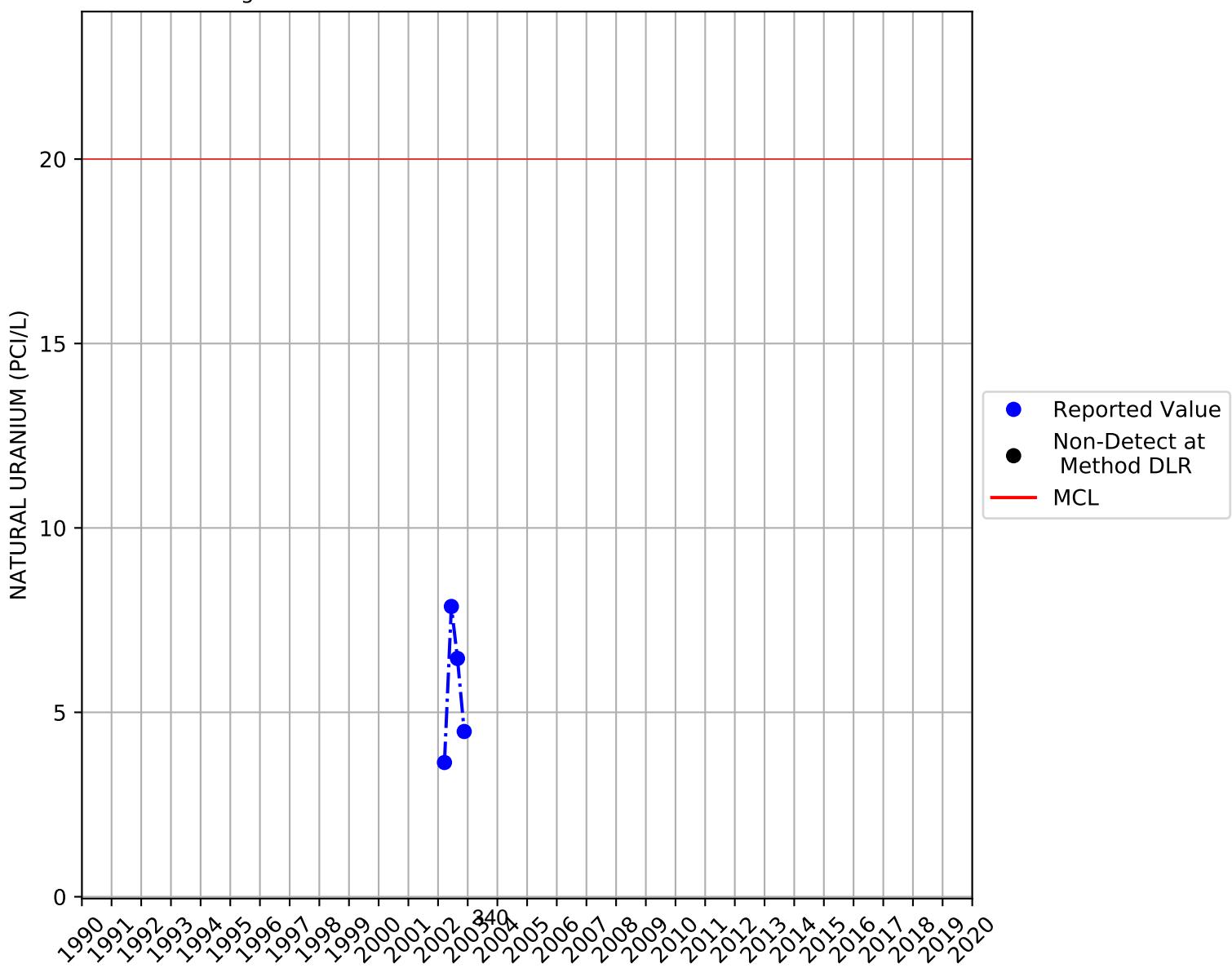
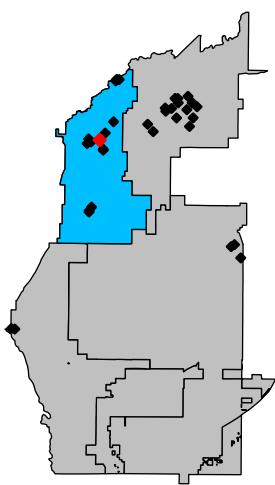
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South Fork Kings GSA



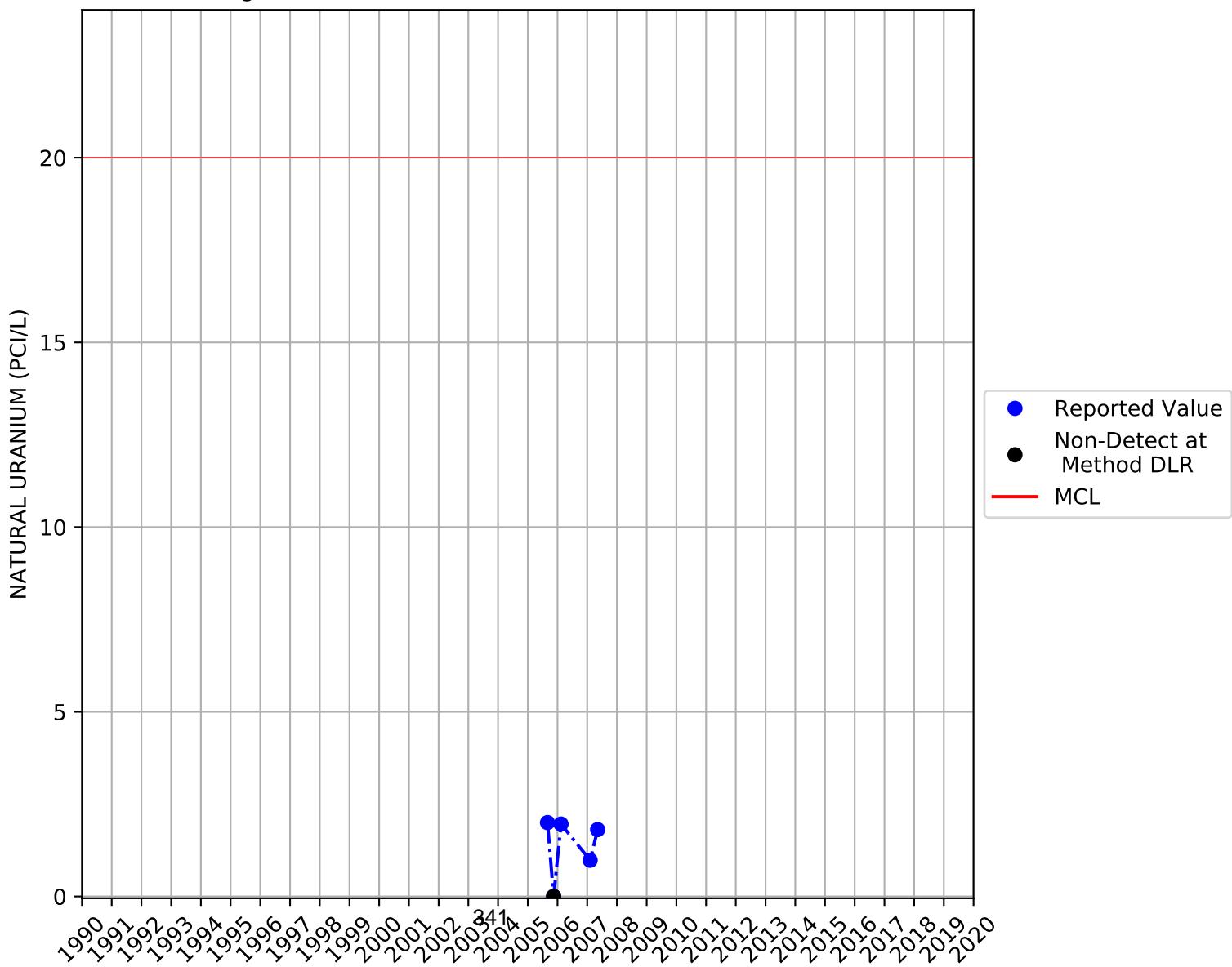
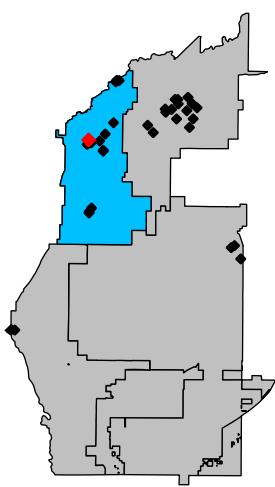
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South Fork Kings GSA



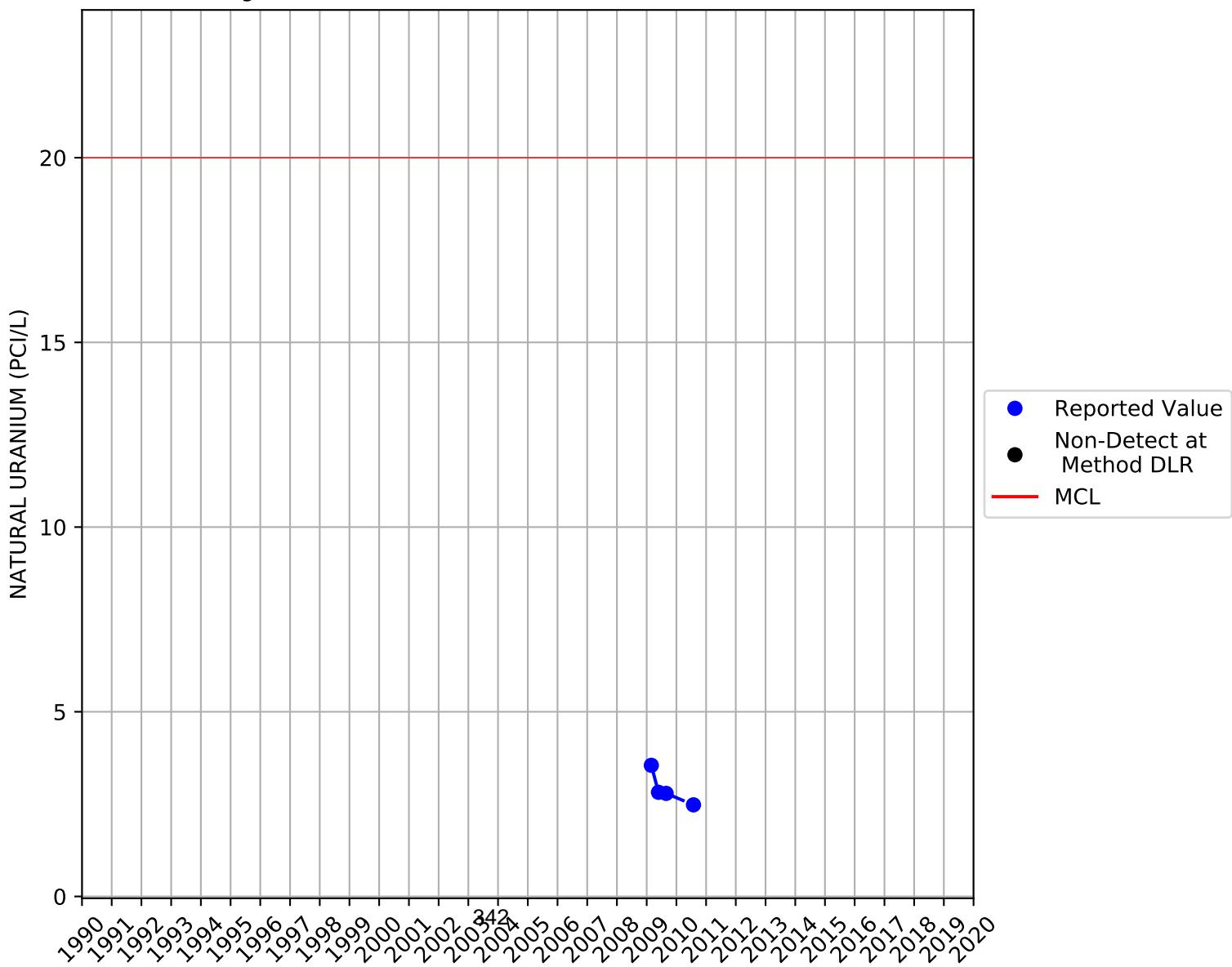
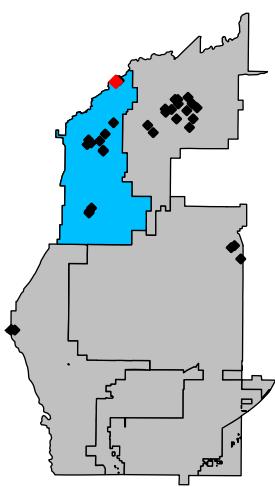
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South Fork Kings GSA



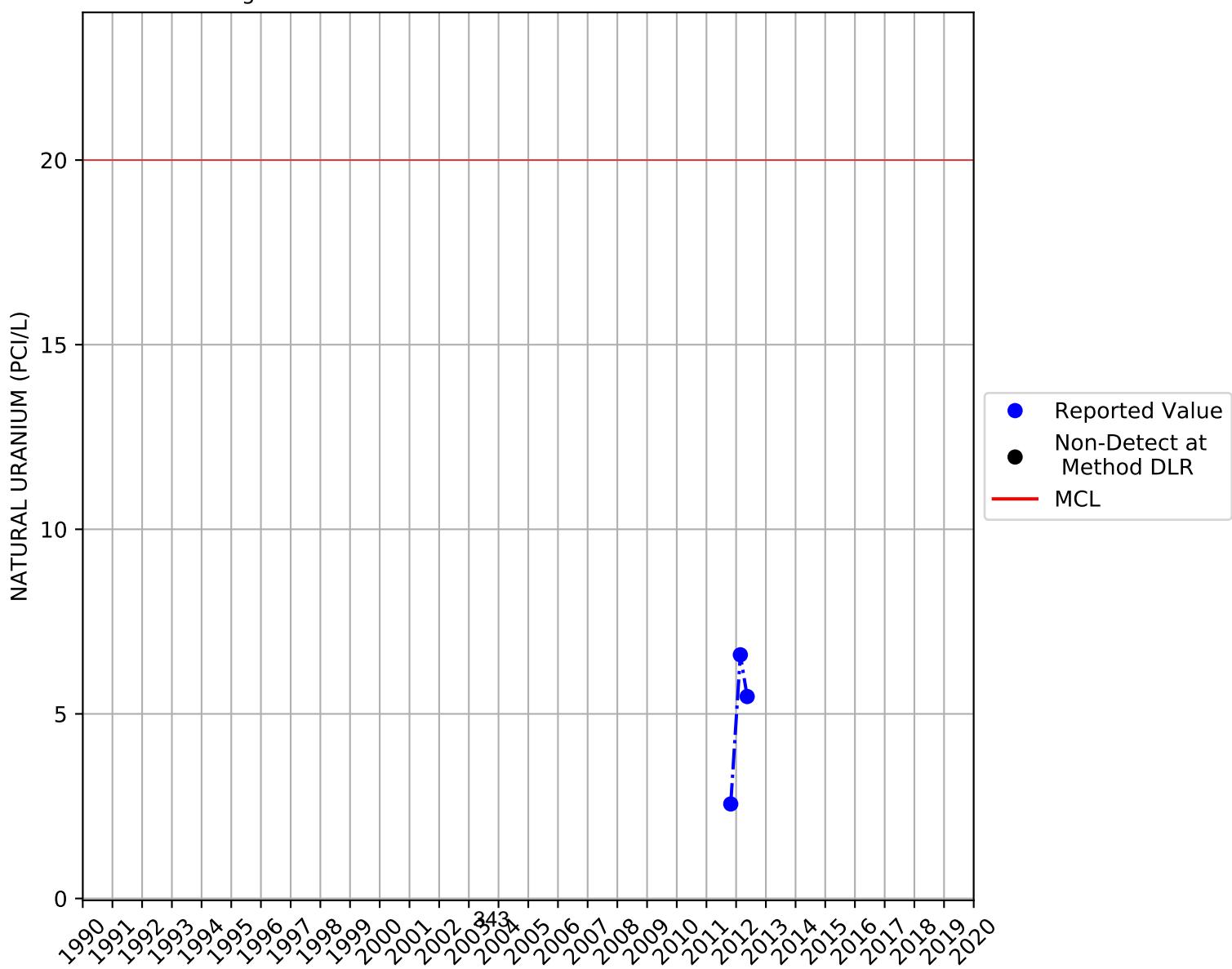
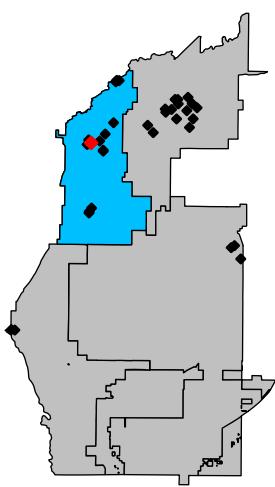
URANIUM (PCI/L)
1610005-018 WELL 07 - RAW
South Fork Kings GSA



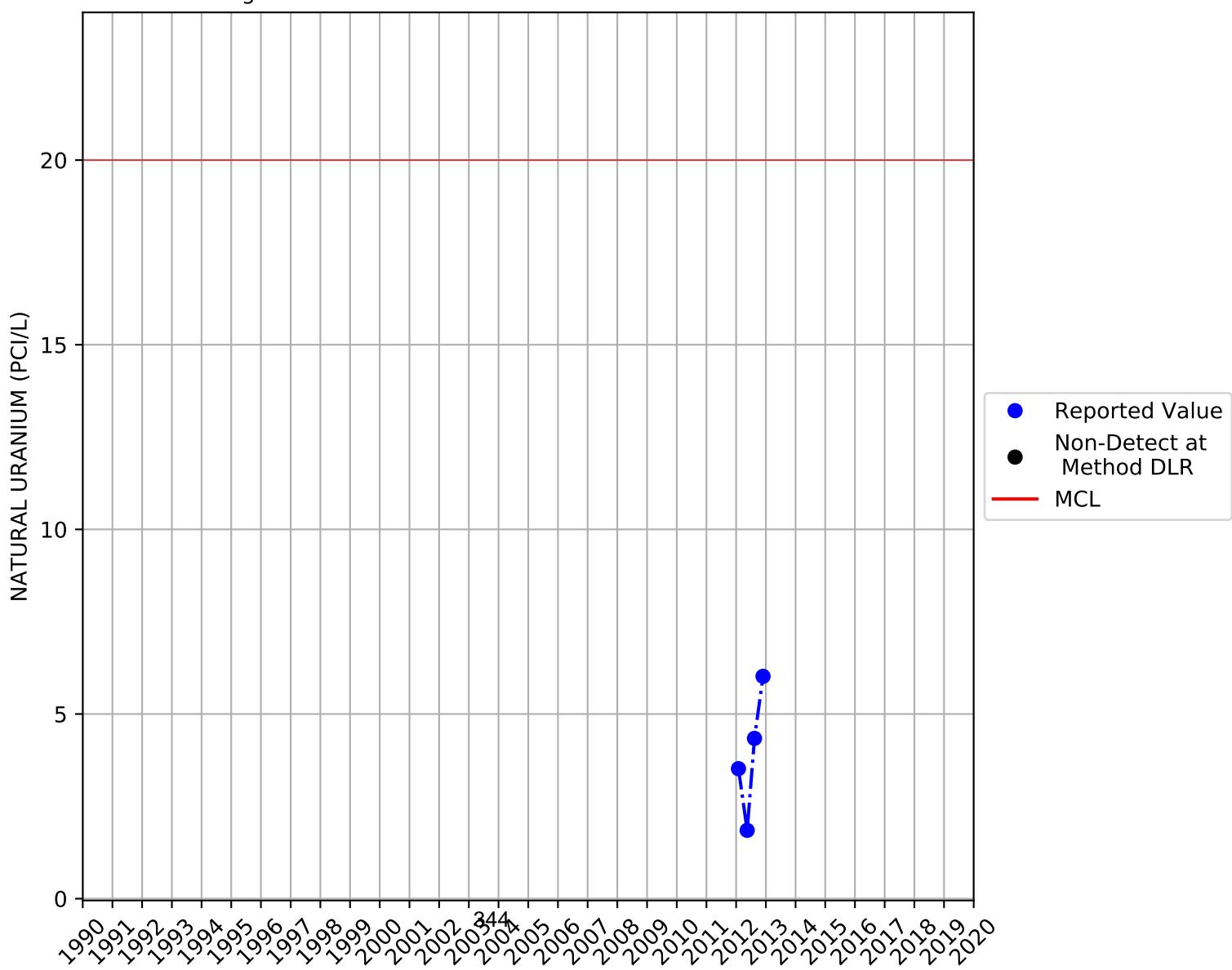
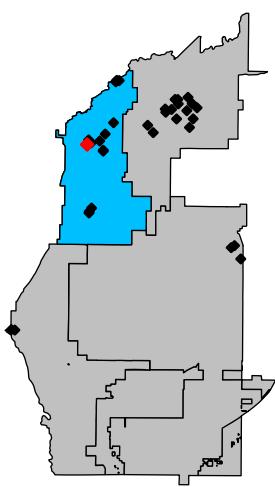
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South Fork Kings GSA



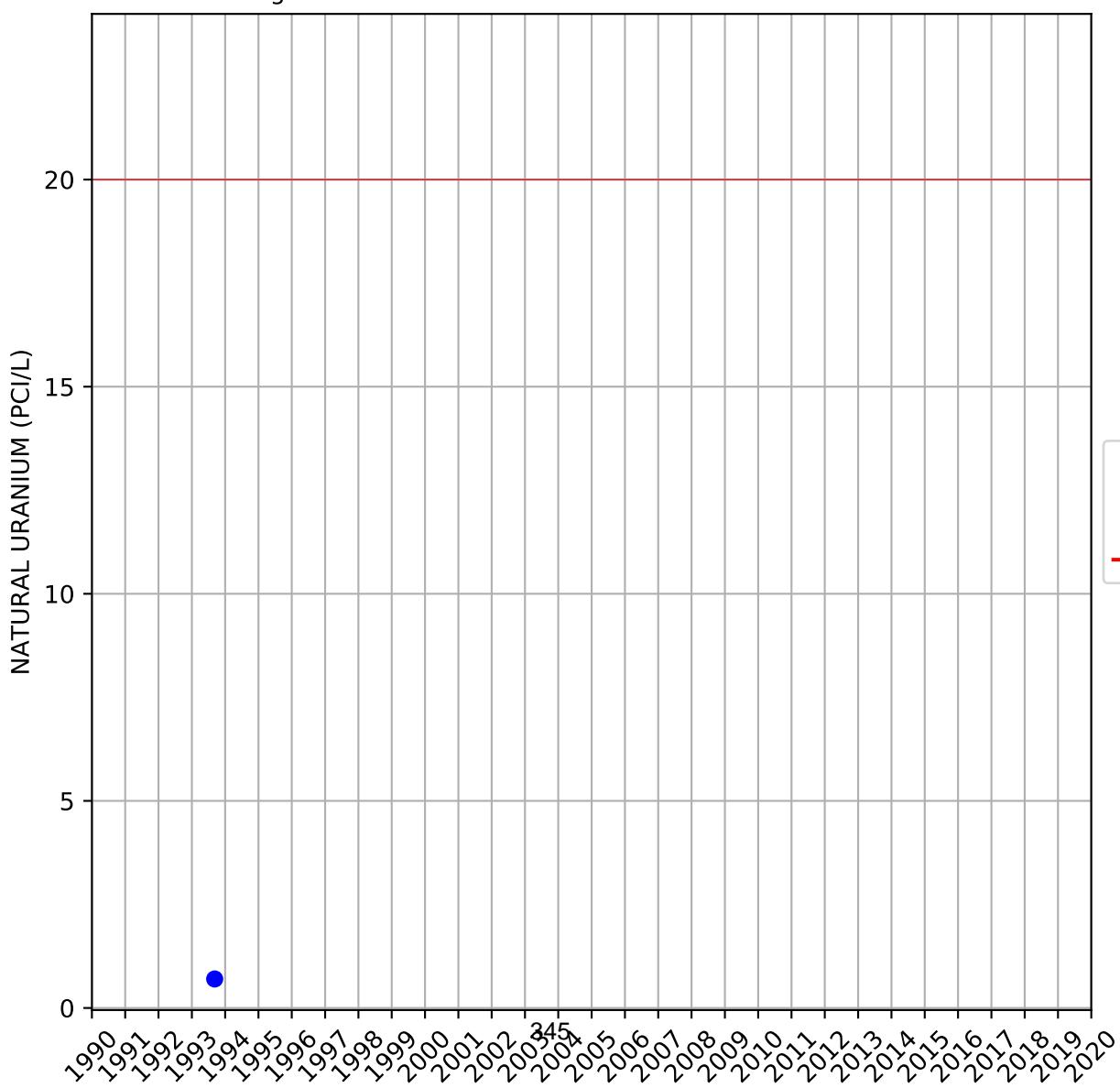
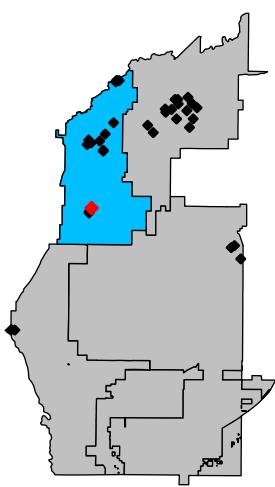
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South Fork Kings GSA



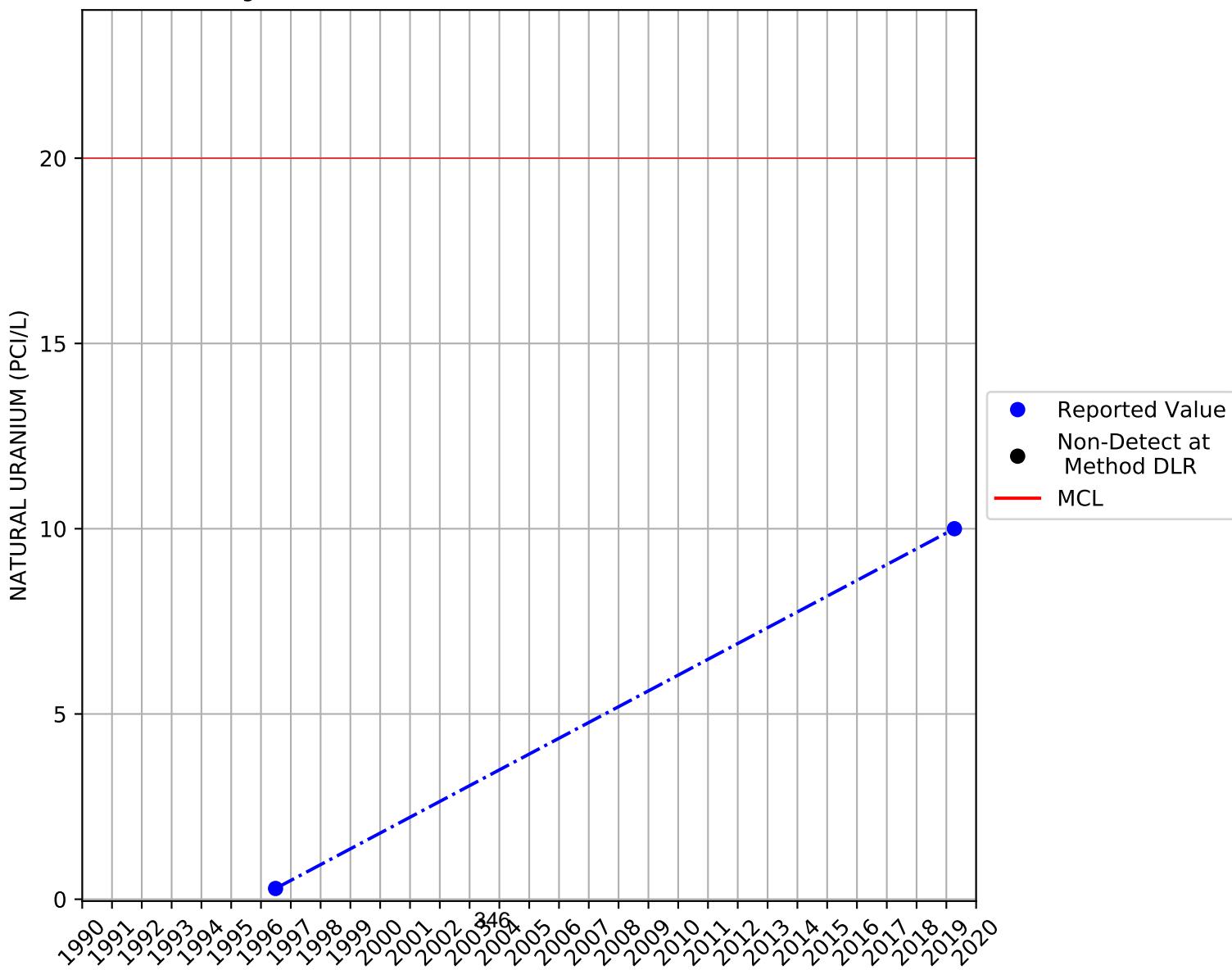
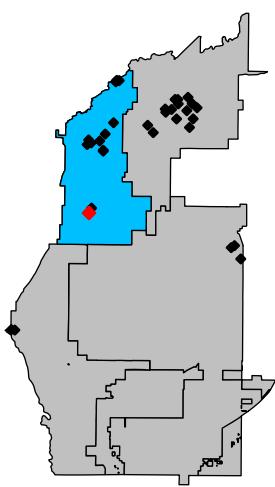
URANIUM (PCI/L)
1610005-022 WELL 14 - RAW
South Fork Kings GSA



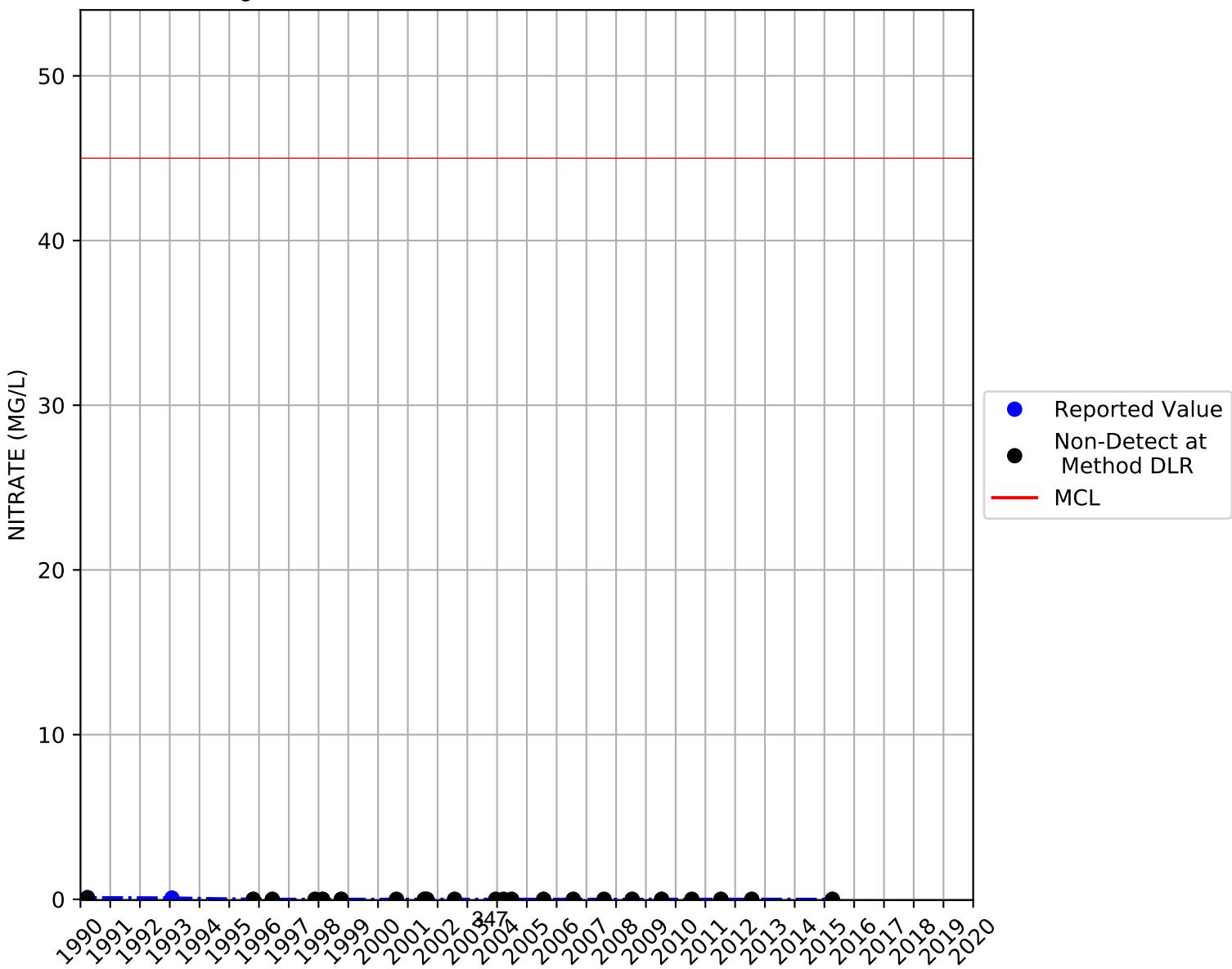
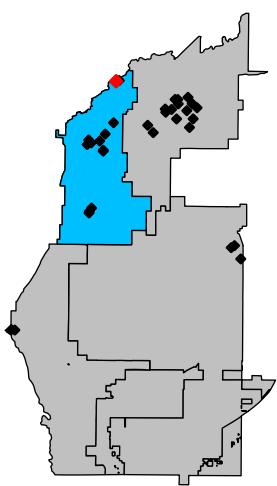
URANIUM (PCI/L)
1610006-001 WELL 05 - RAW
South Fork Kings GSA



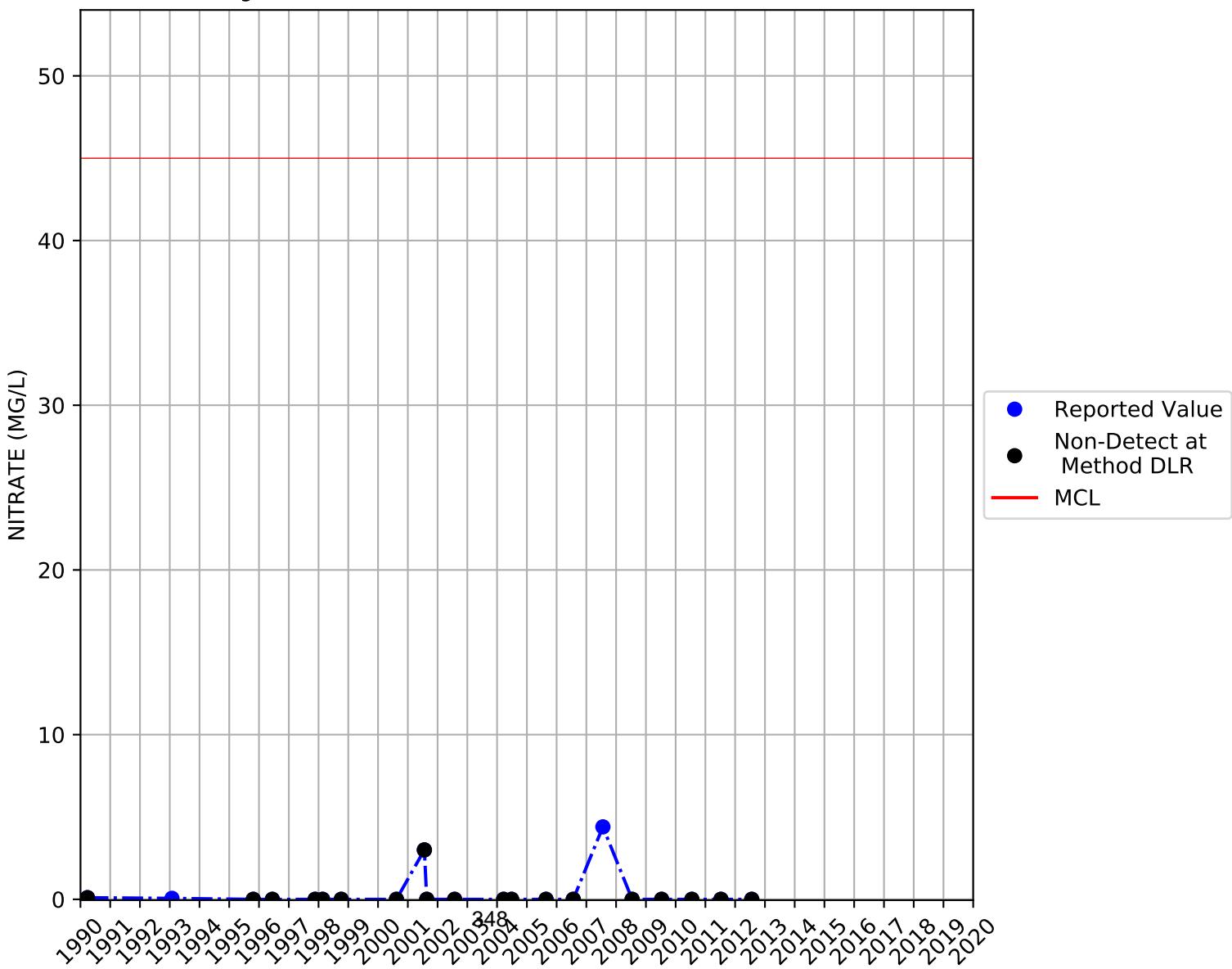
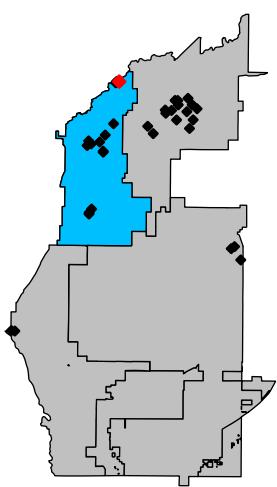
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1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



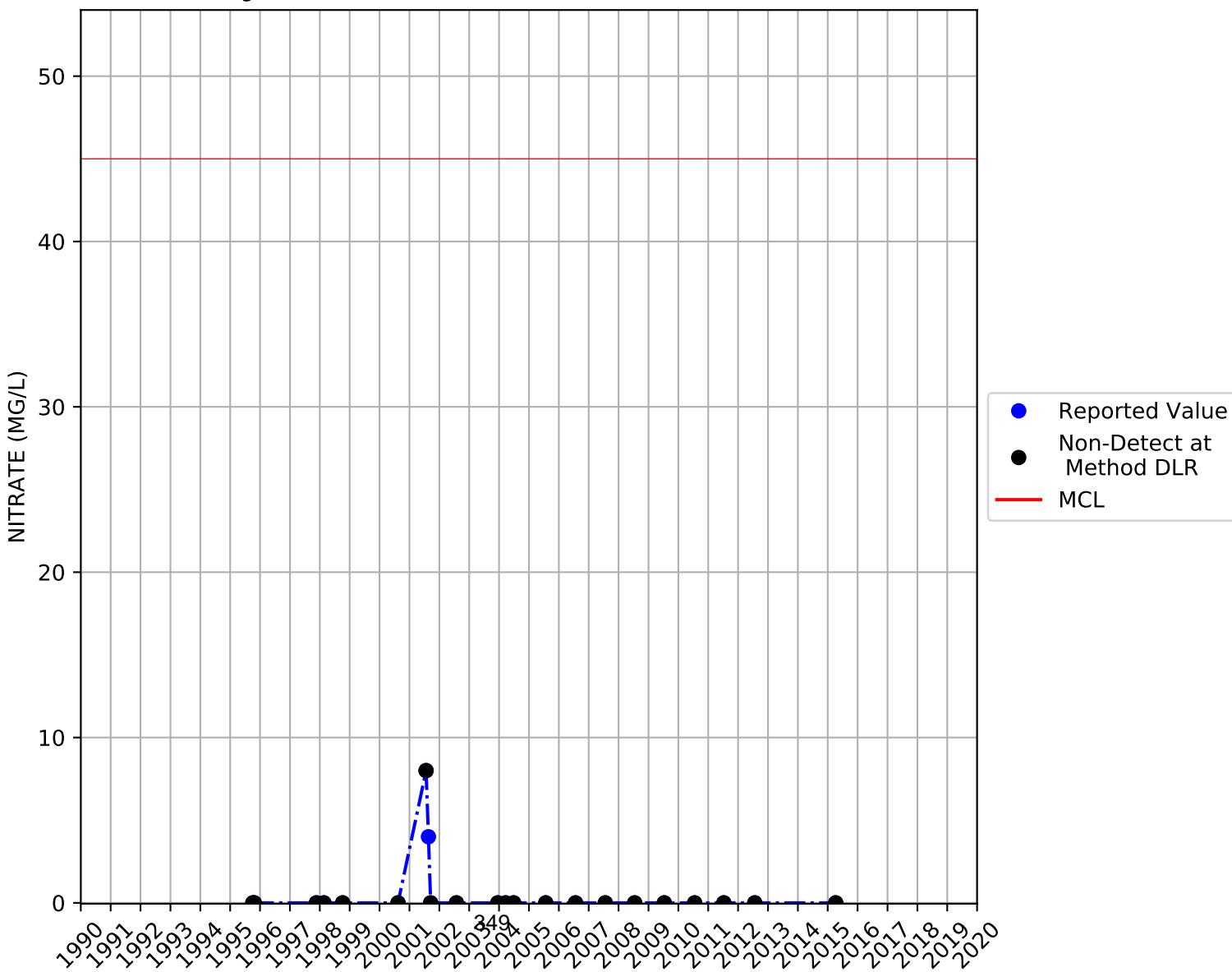
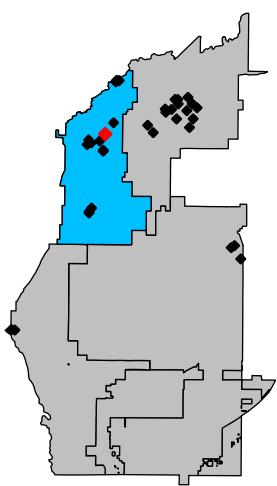
NITRATE (AS NO₃)
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South Fork Kings GSA



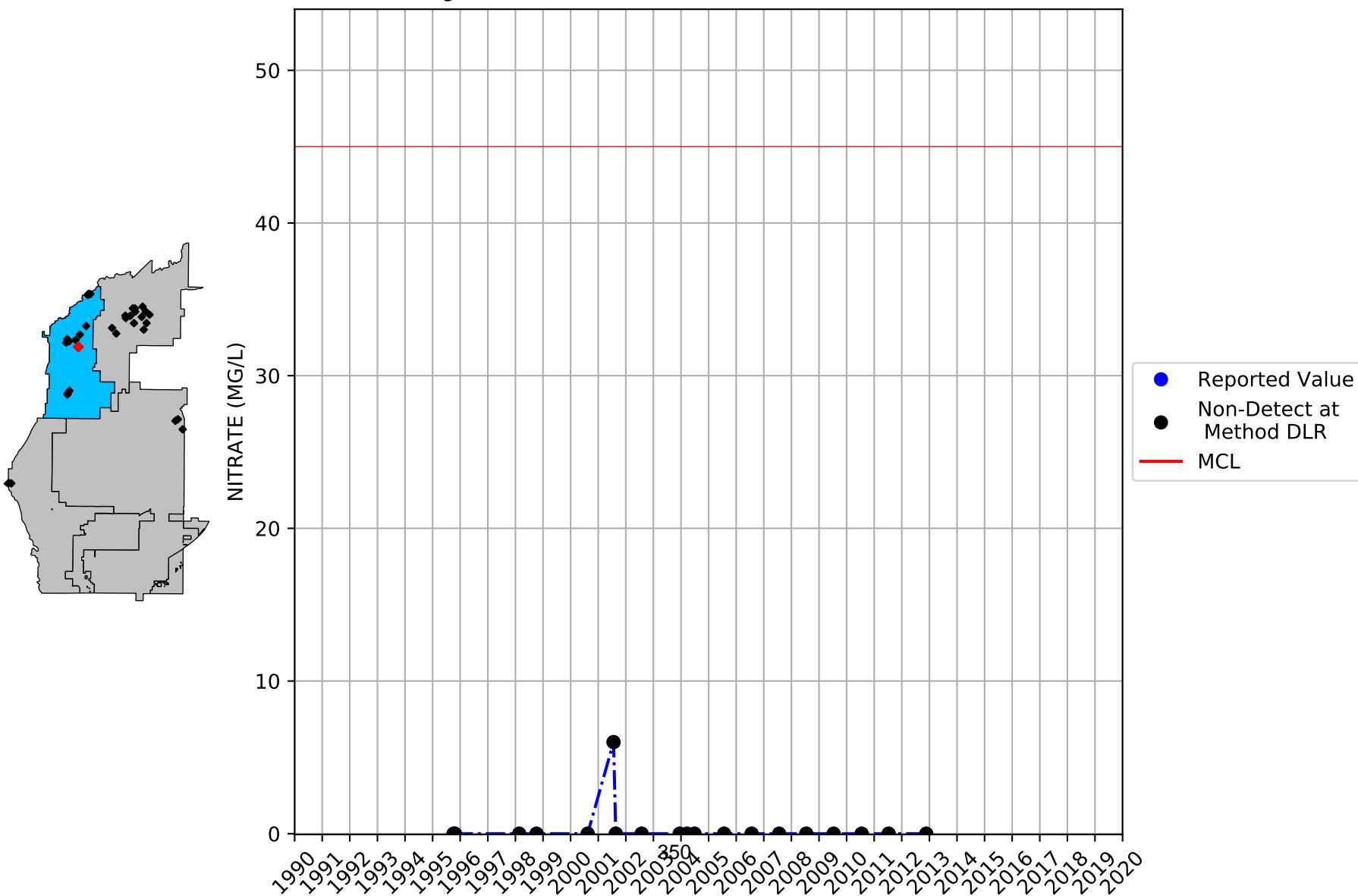
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South Fork Kings GSA



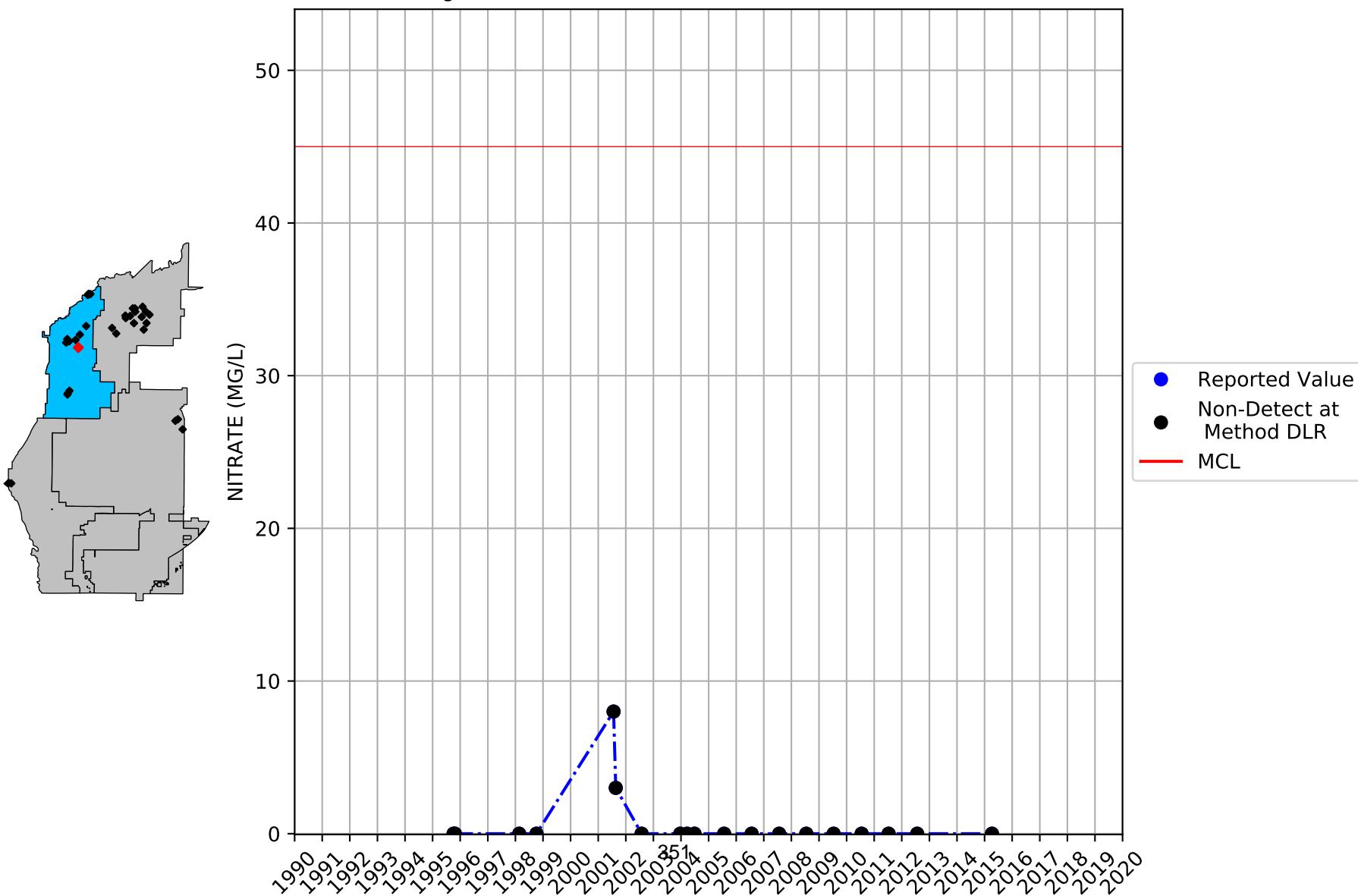
NITRATE (AS NO₃)
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South Fork Kings GSA



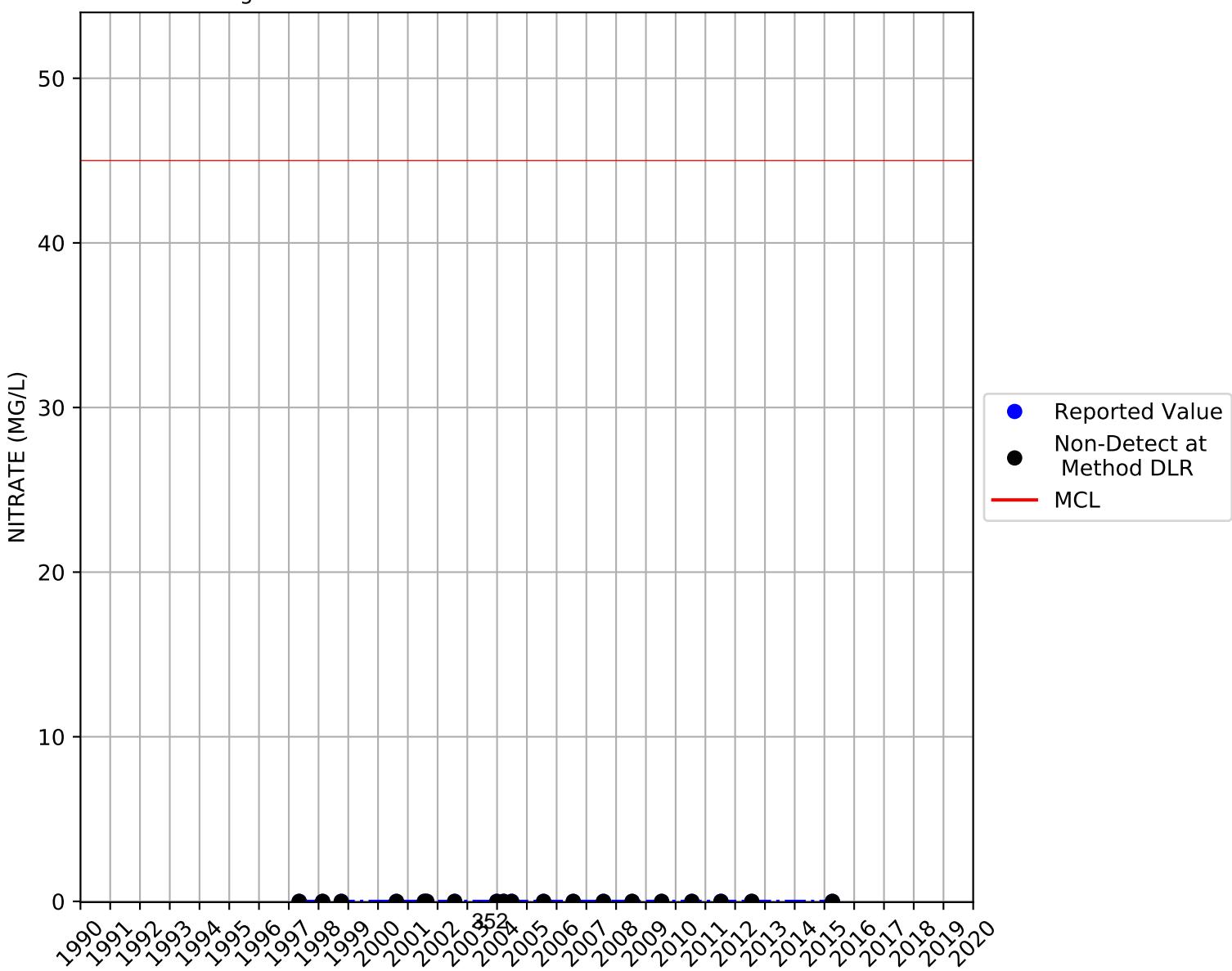
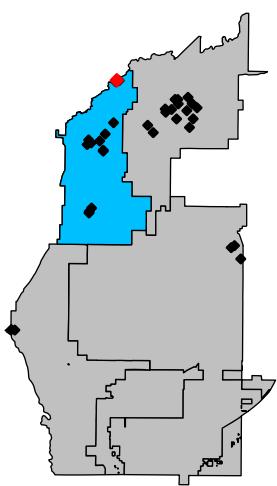
NITRATE (AS NO₃)
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South Fork Kings GSA



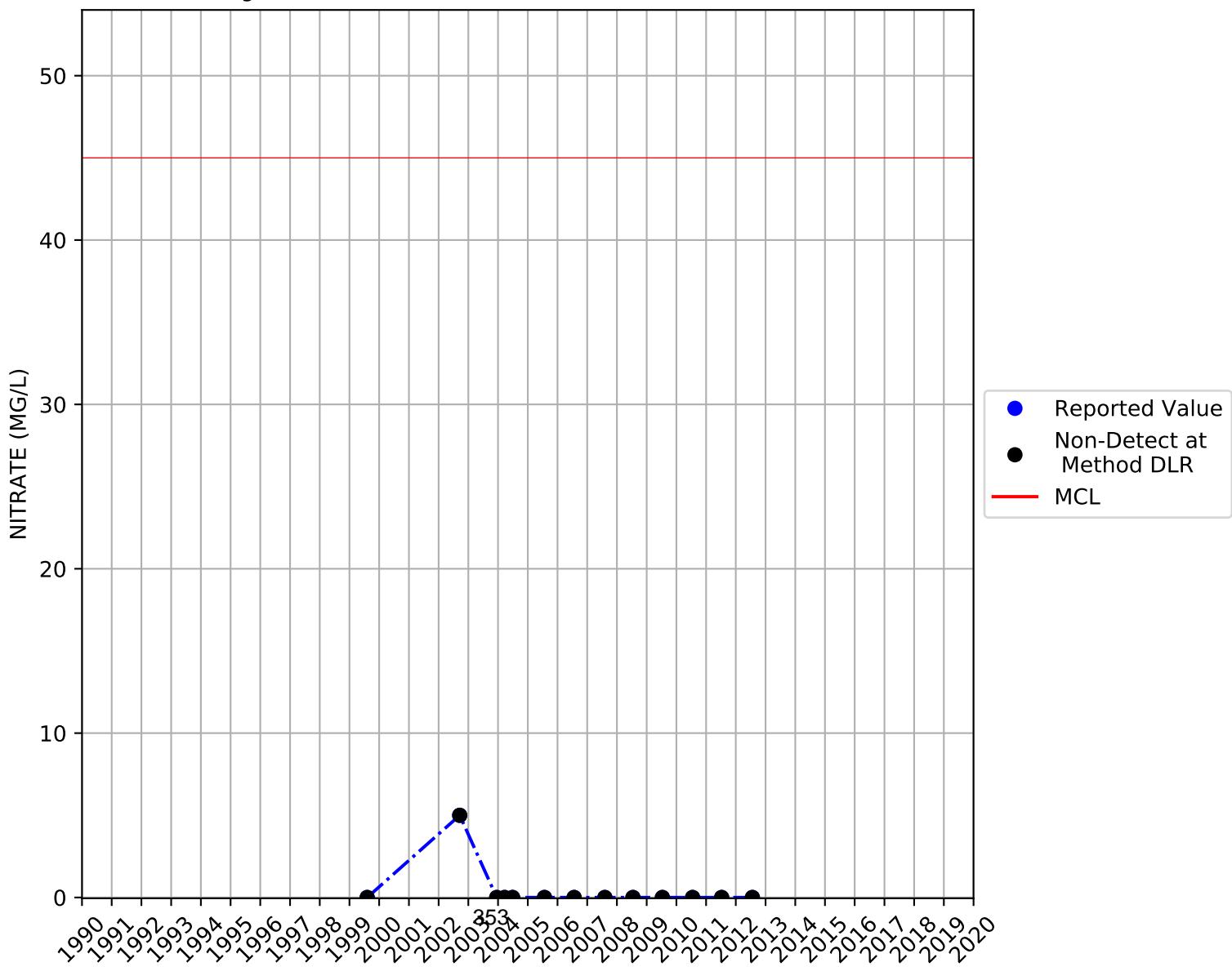
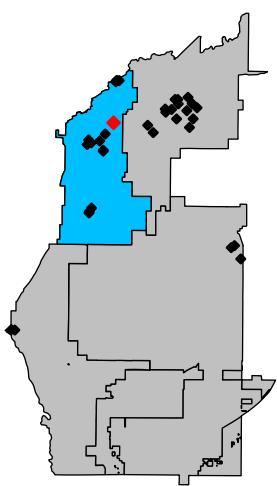
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South Fork Kings GSA



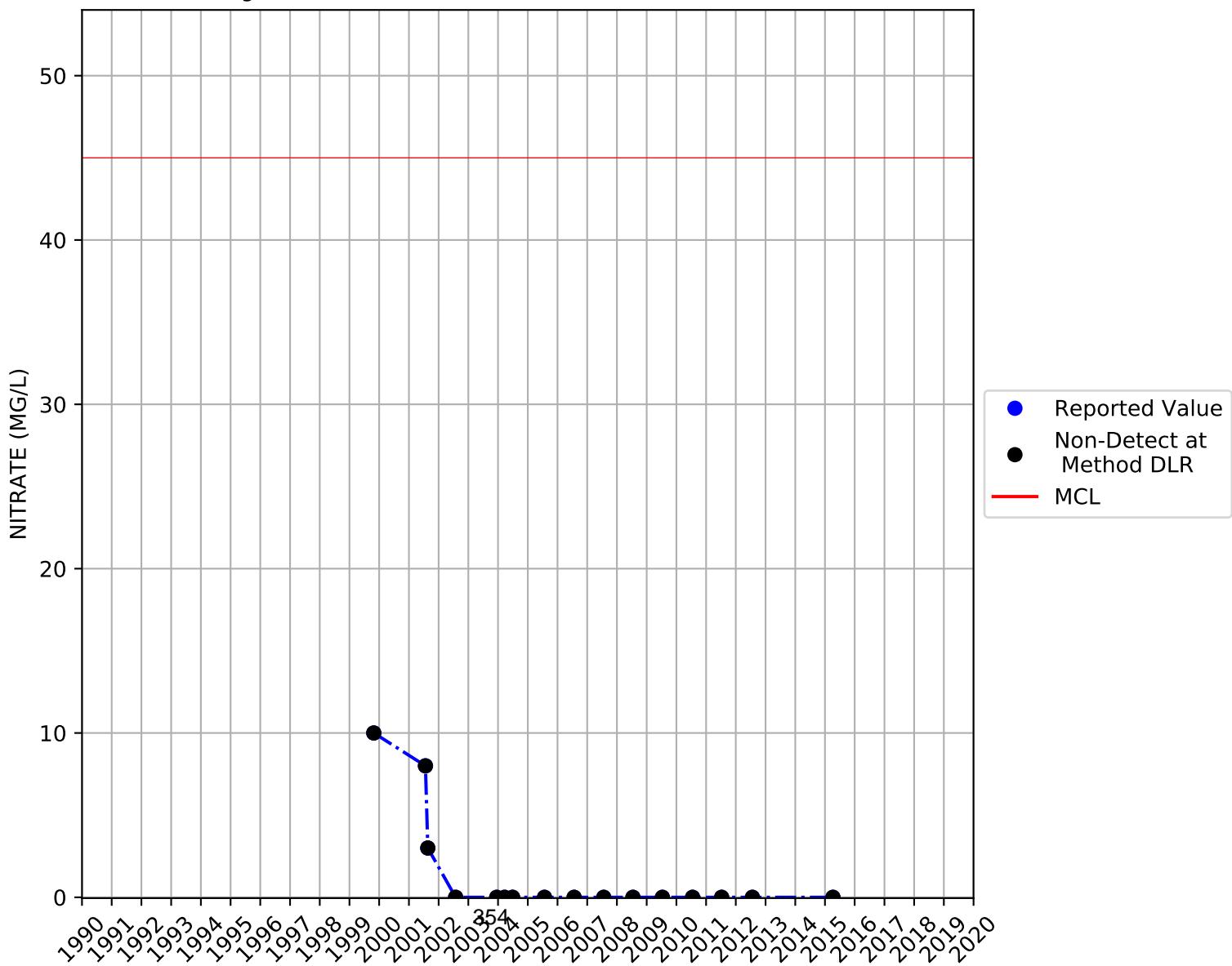
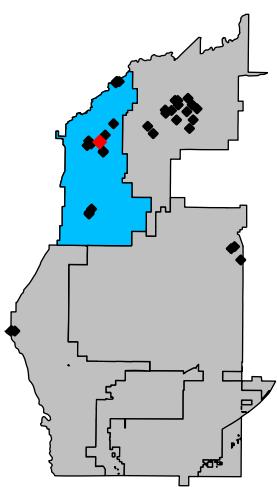
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South Fork Kings GSA



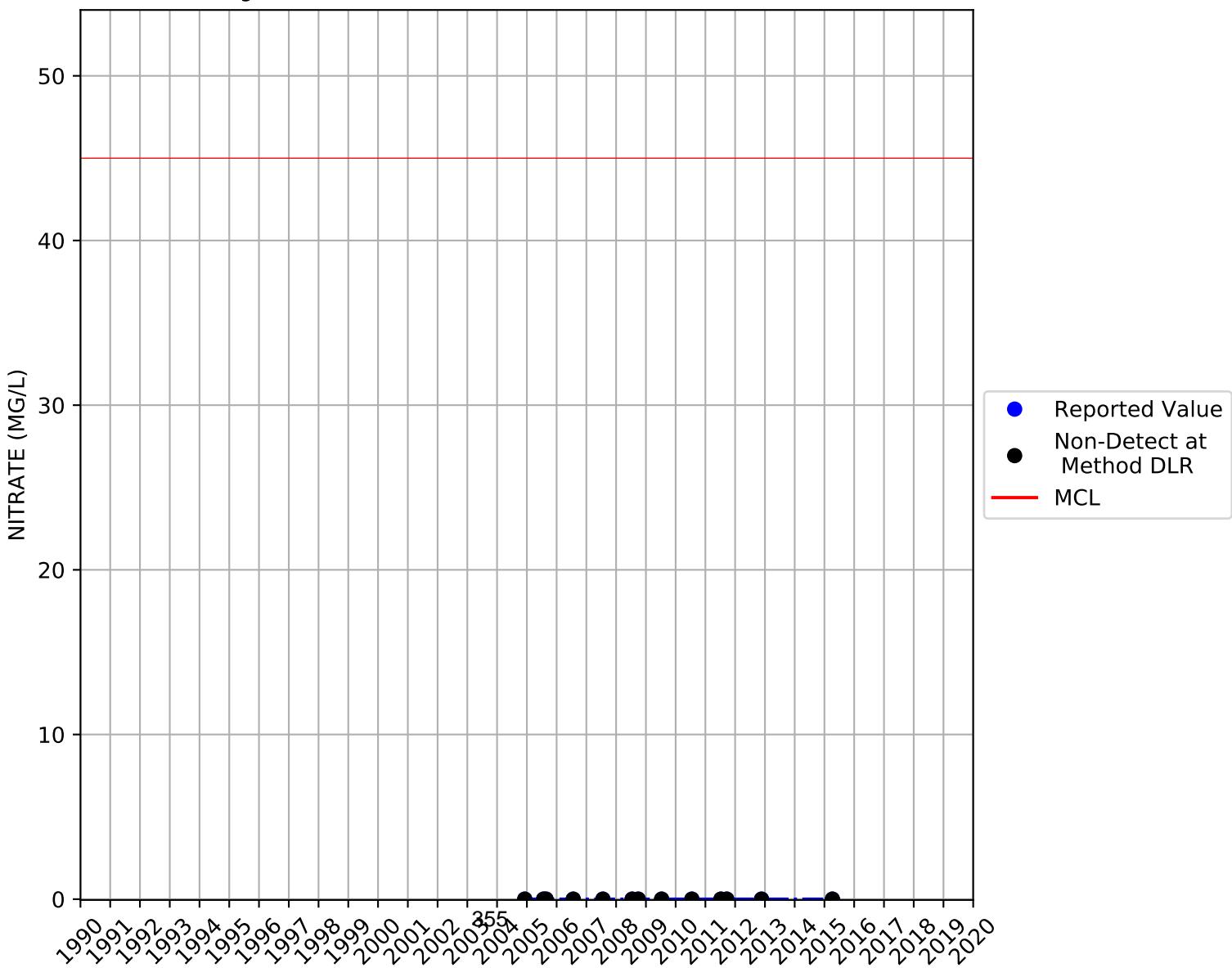
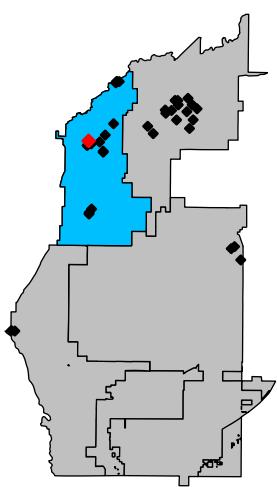
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South Fork Kings GSA



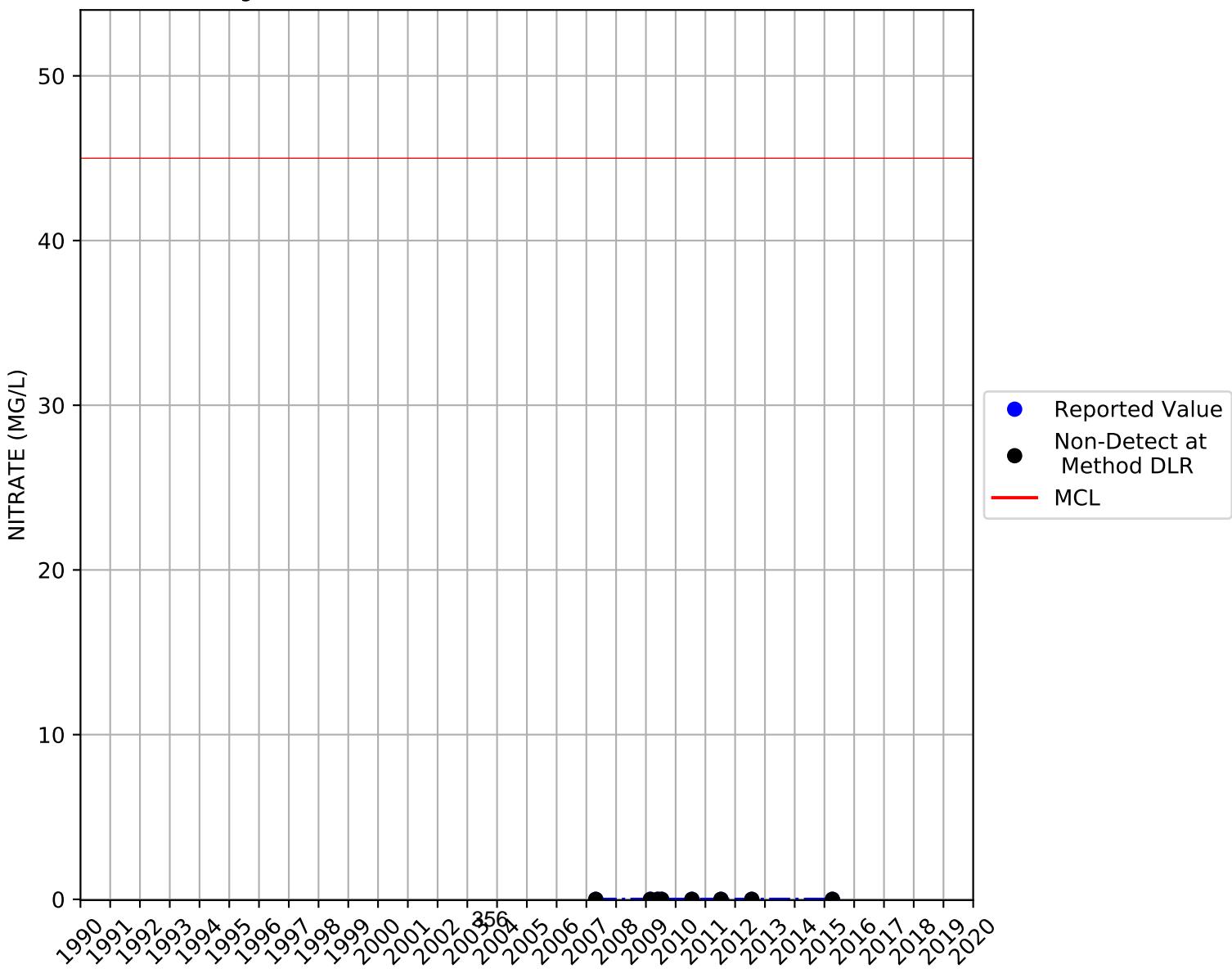
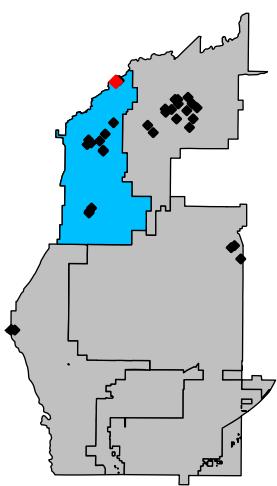
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South Fork Kings GSA



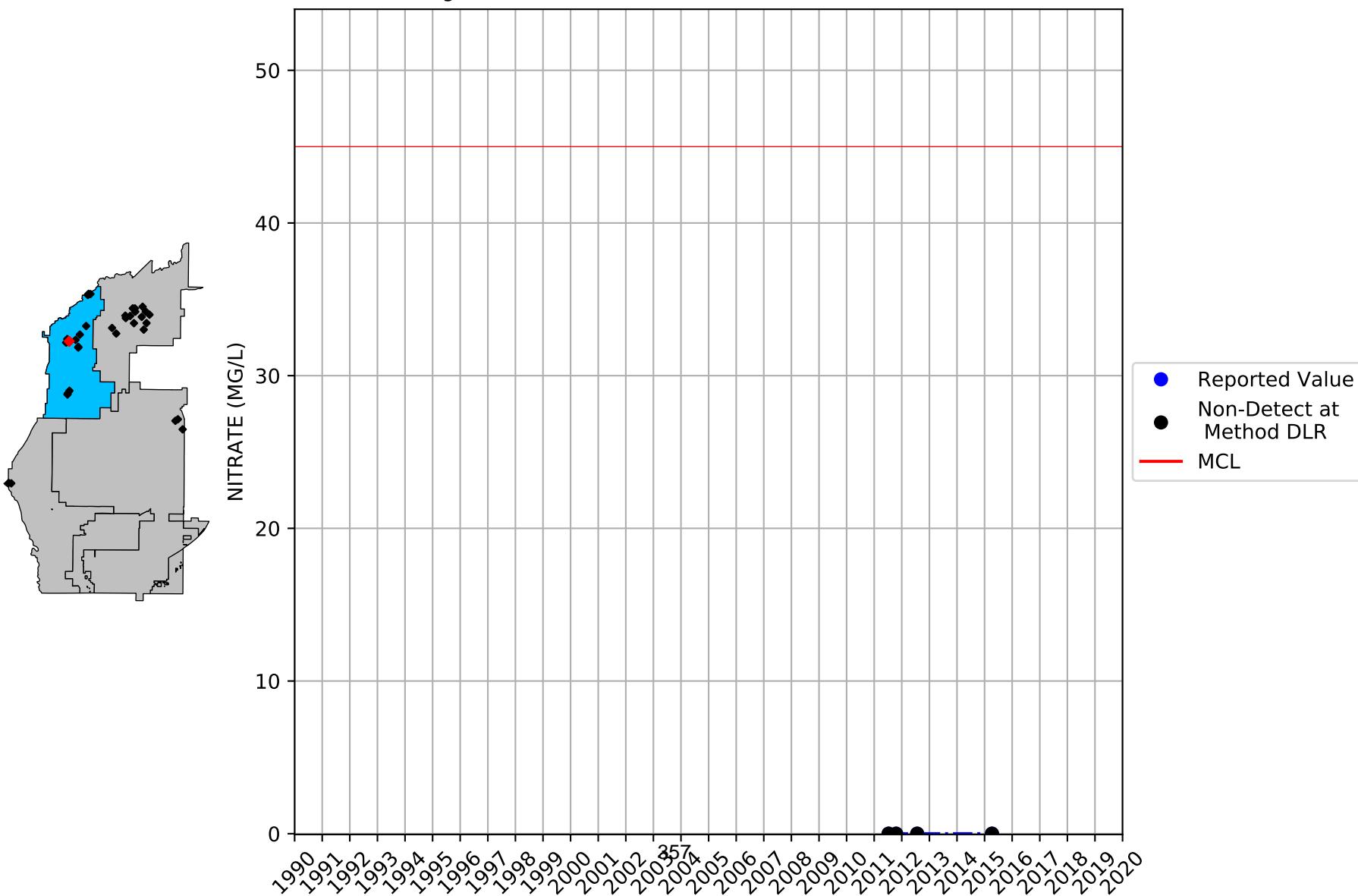
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South Fork Kings GSA



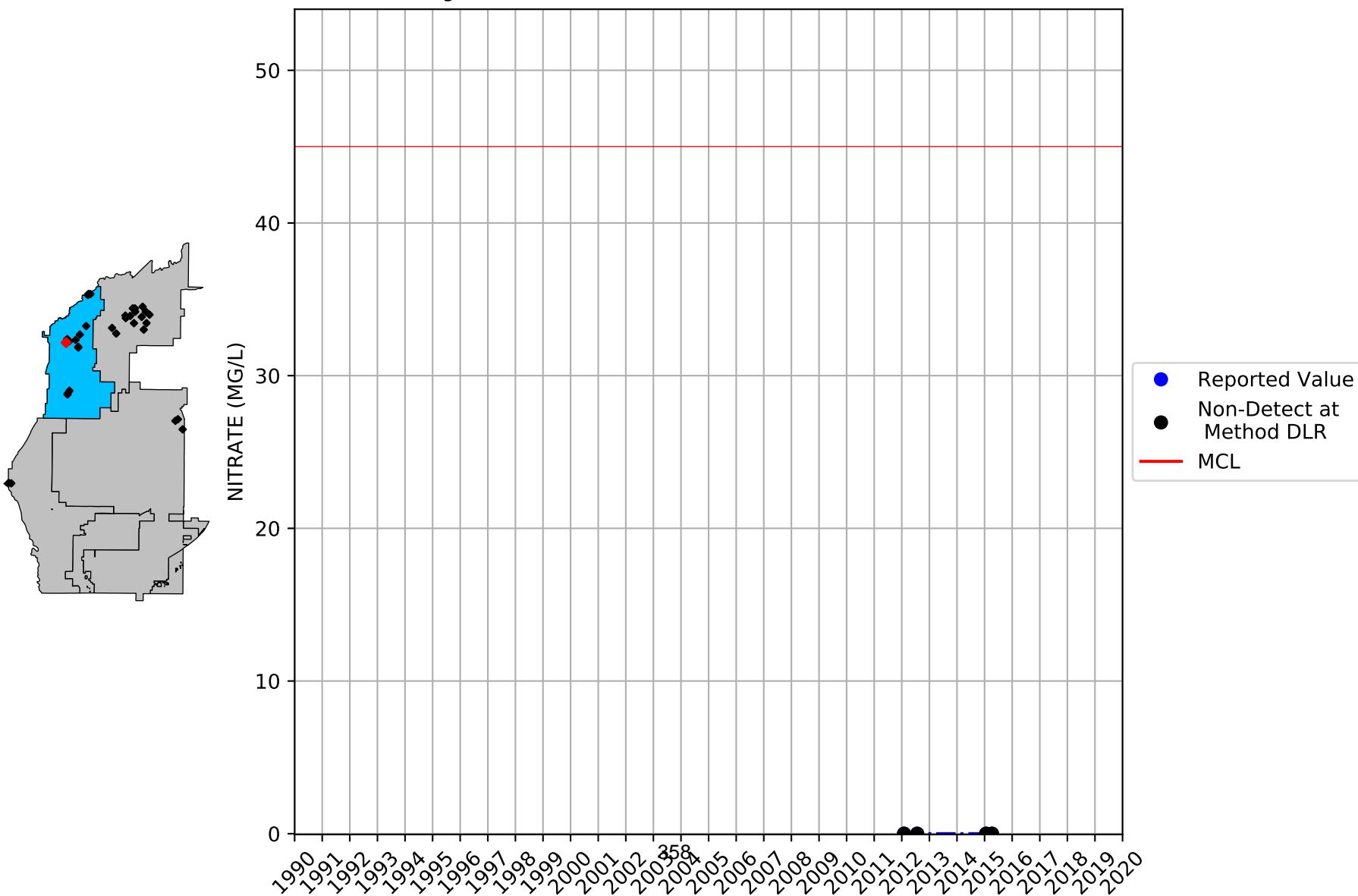
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South Fork Kings GSA



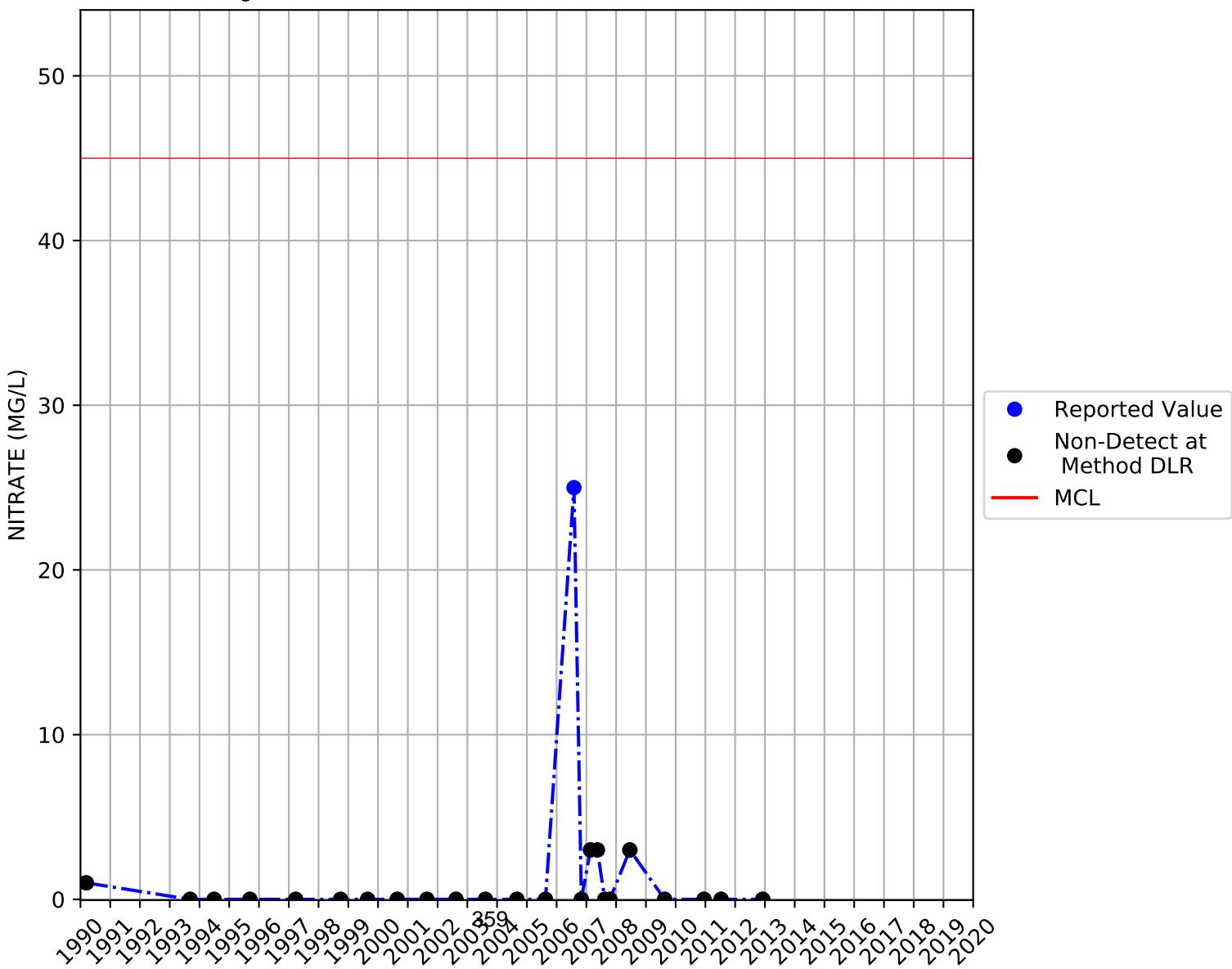
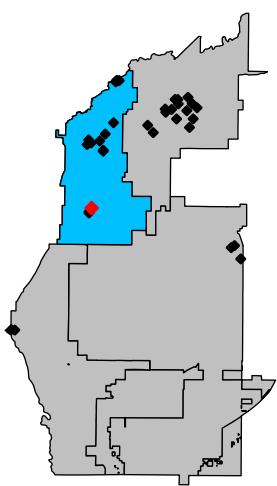
NITRATE (AS NO₃)
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South Fork Kings GSA



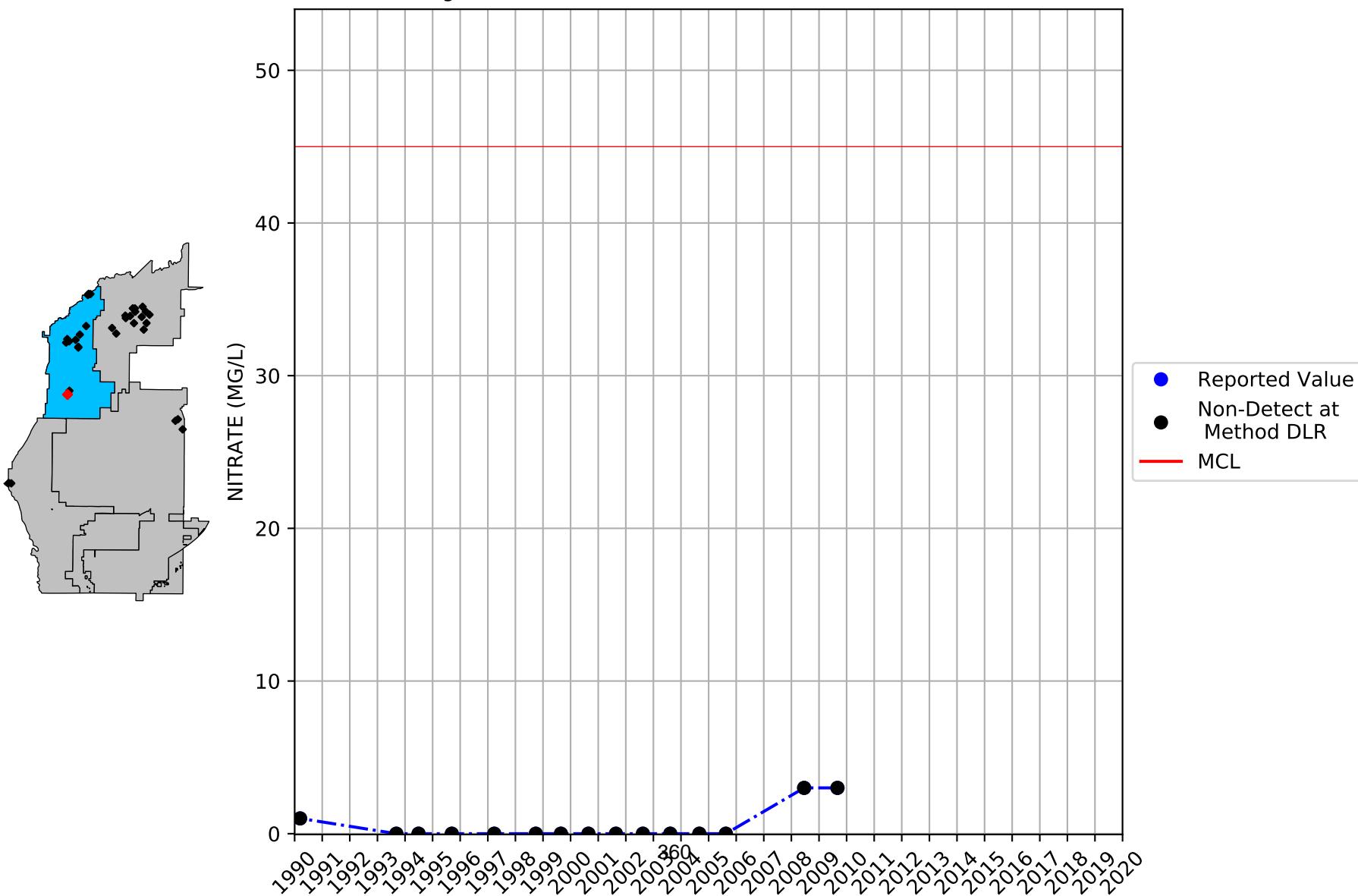
NITRATE (AS NO₃)
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South Fork Kings GSA



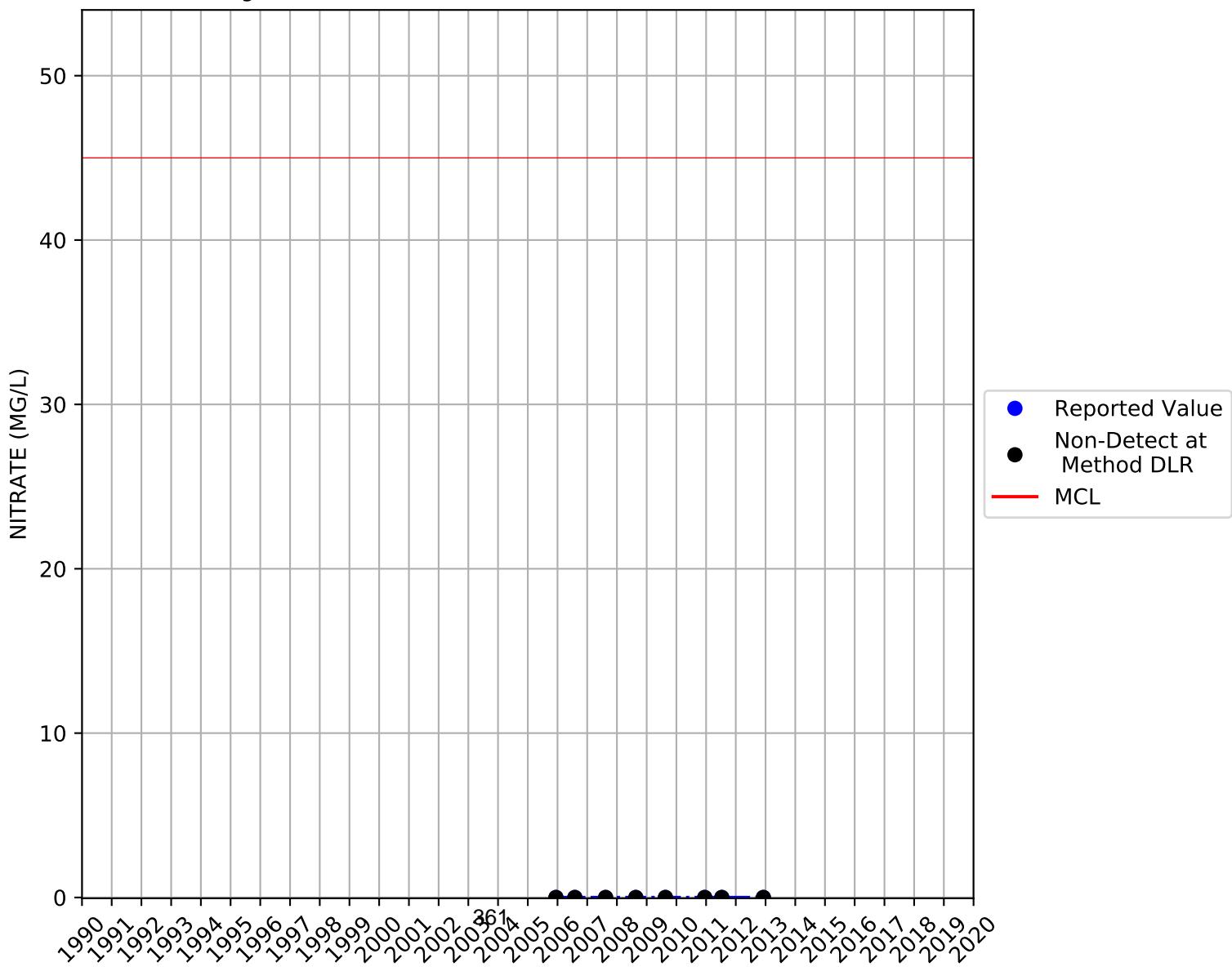
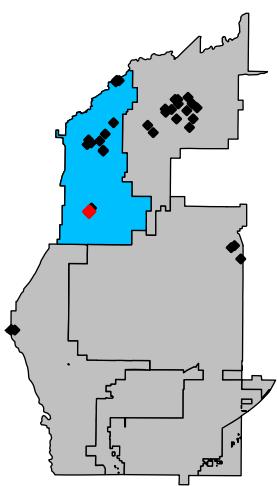
NITRATE (AS NO₃)
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South Fork Kings GSA



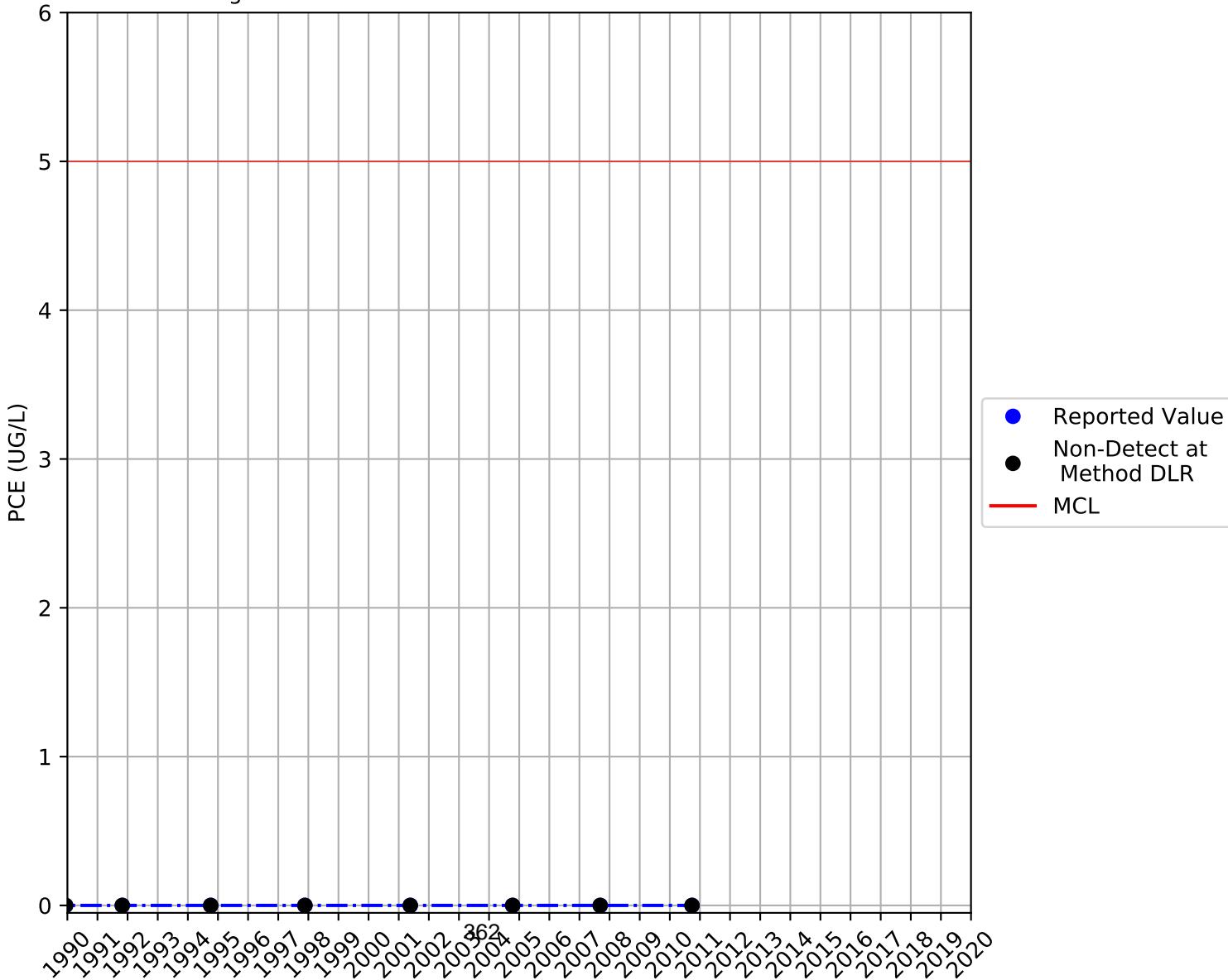
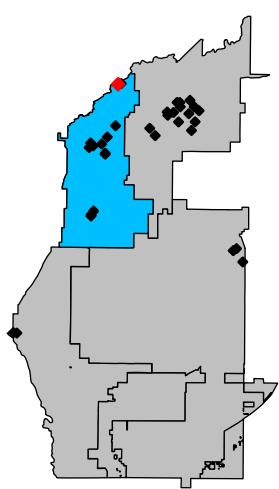
NITRATE (AS NO₃)
1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



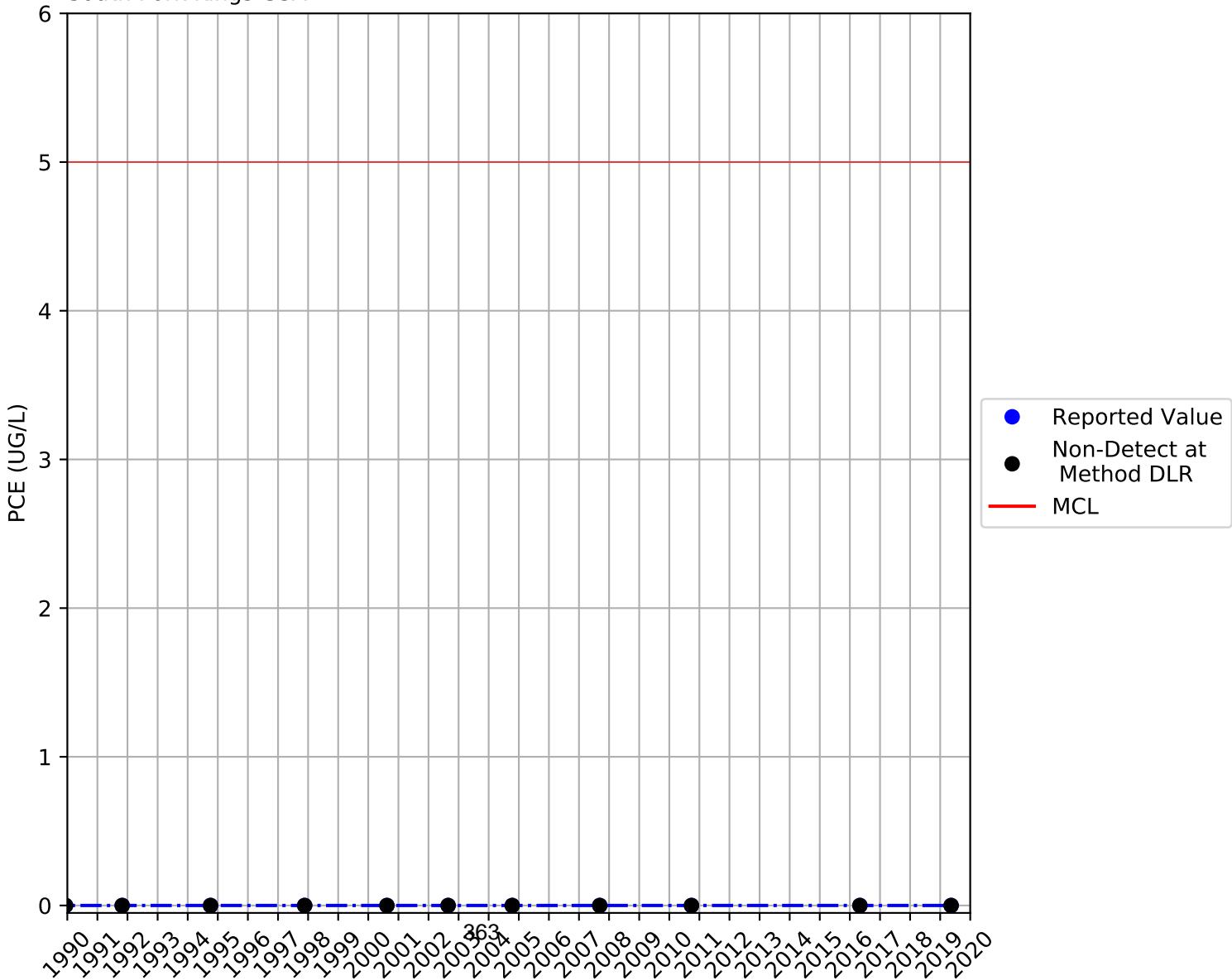
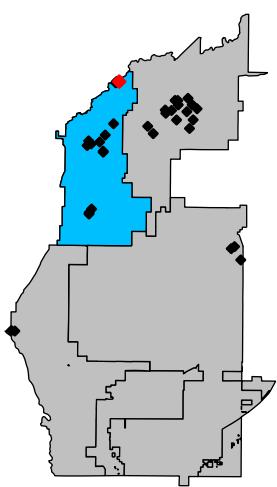
NITRATE (AS NO₃)
1610006-005 WELL 07 - RAW
South Fork Kings GSA



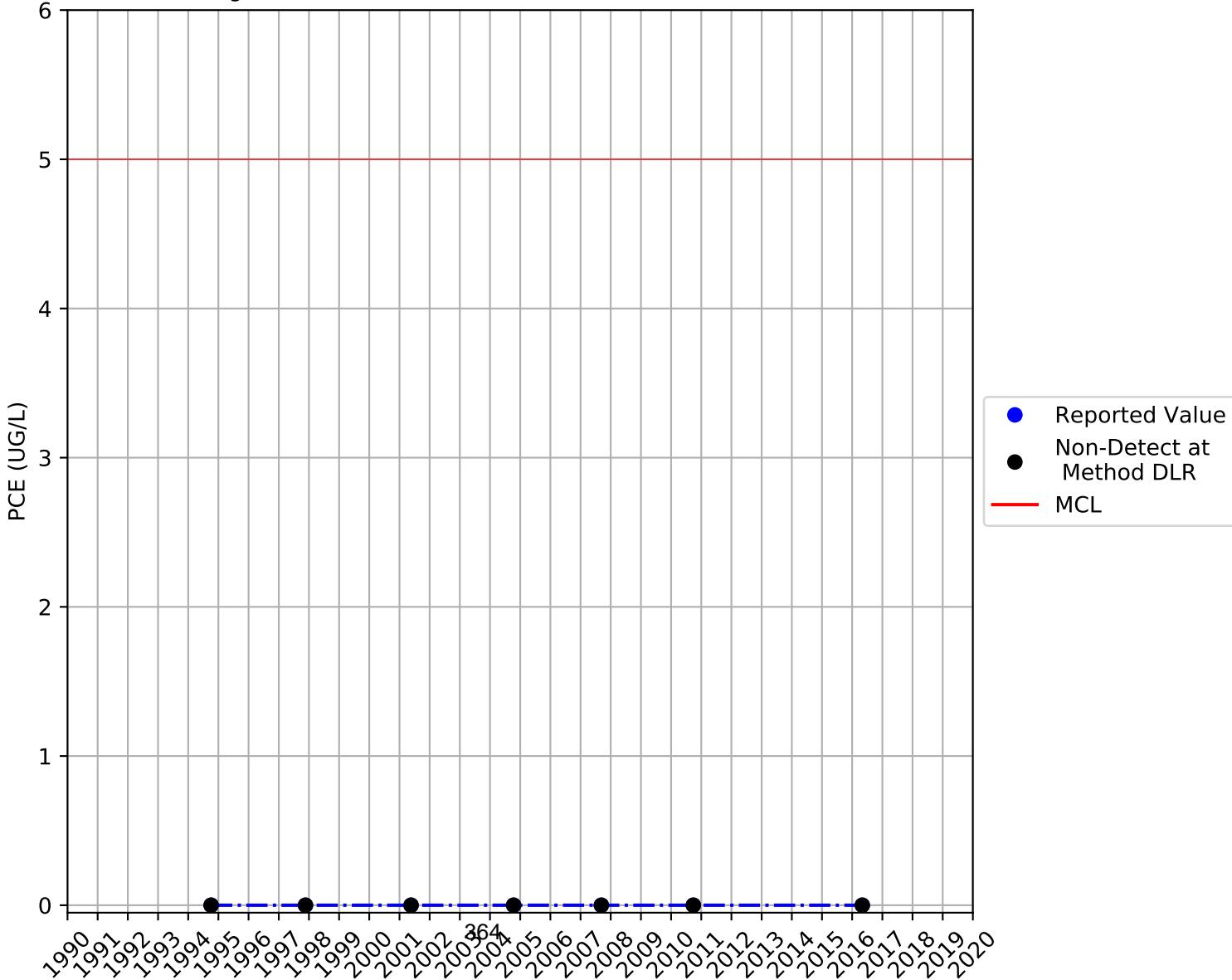
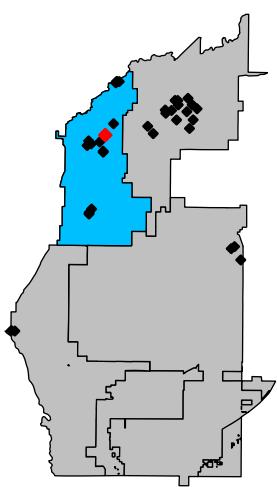
TETRACHLOROETHYLENE
1610005-003 WELL N-2 - RAW
South Fork Kings GSA



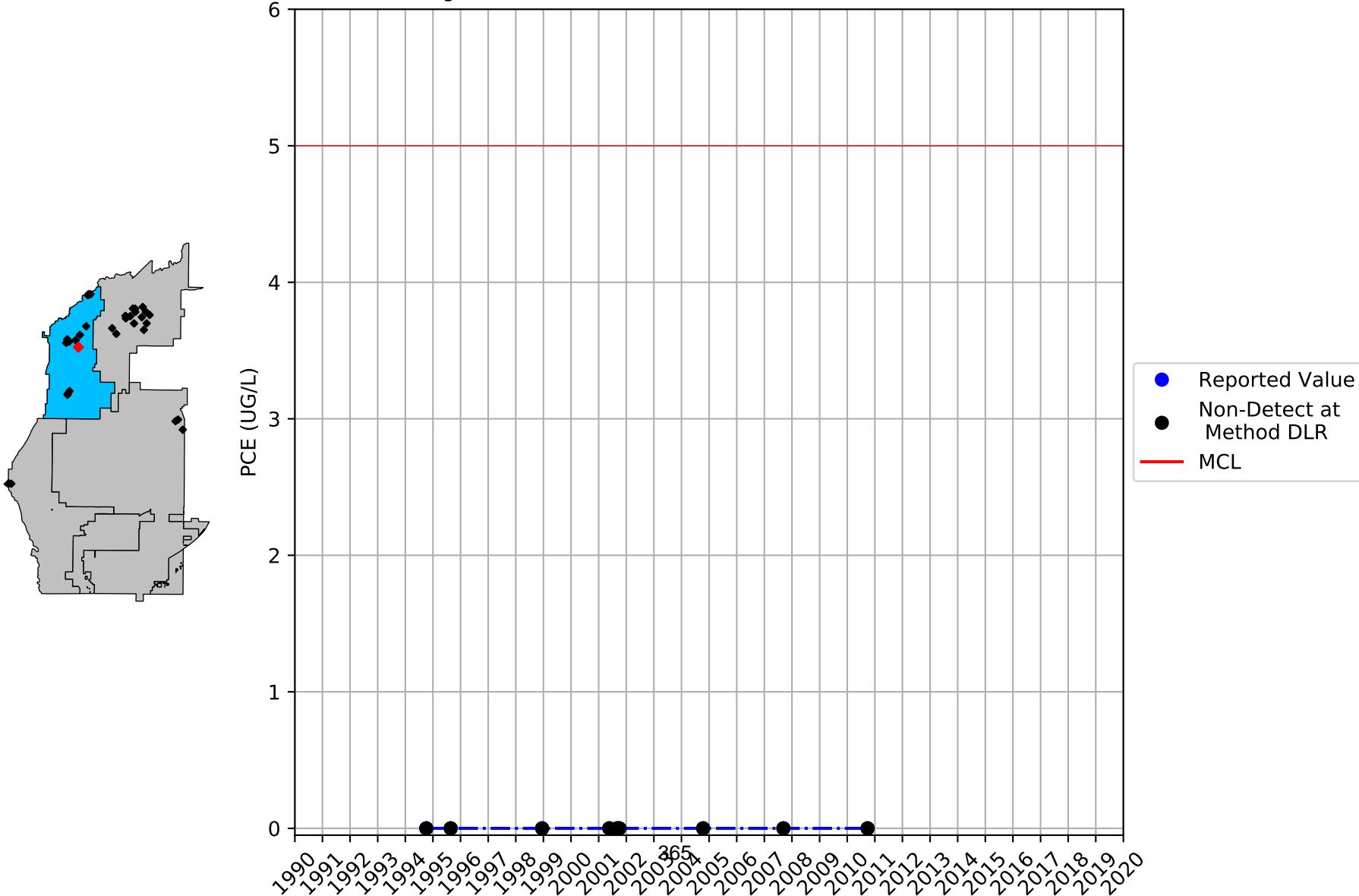
TETRACHLOROETHYLENE
1610005-005 WELL N-4 - RAW
South Fork Kings GSA



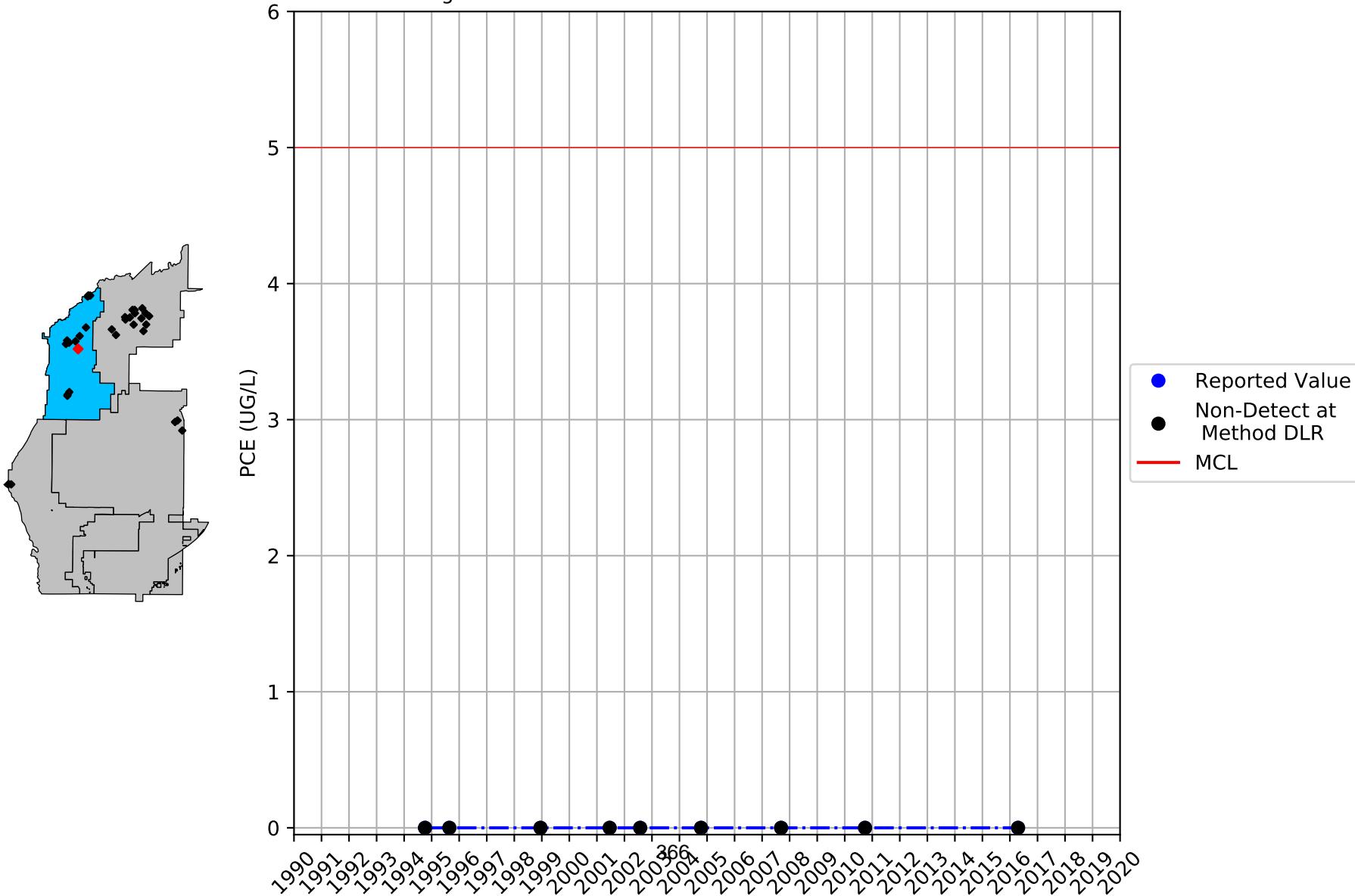
TETRACHLOROETHYLENE
1610005-006 WELL 10 - RAW
South Fork Kings GSA



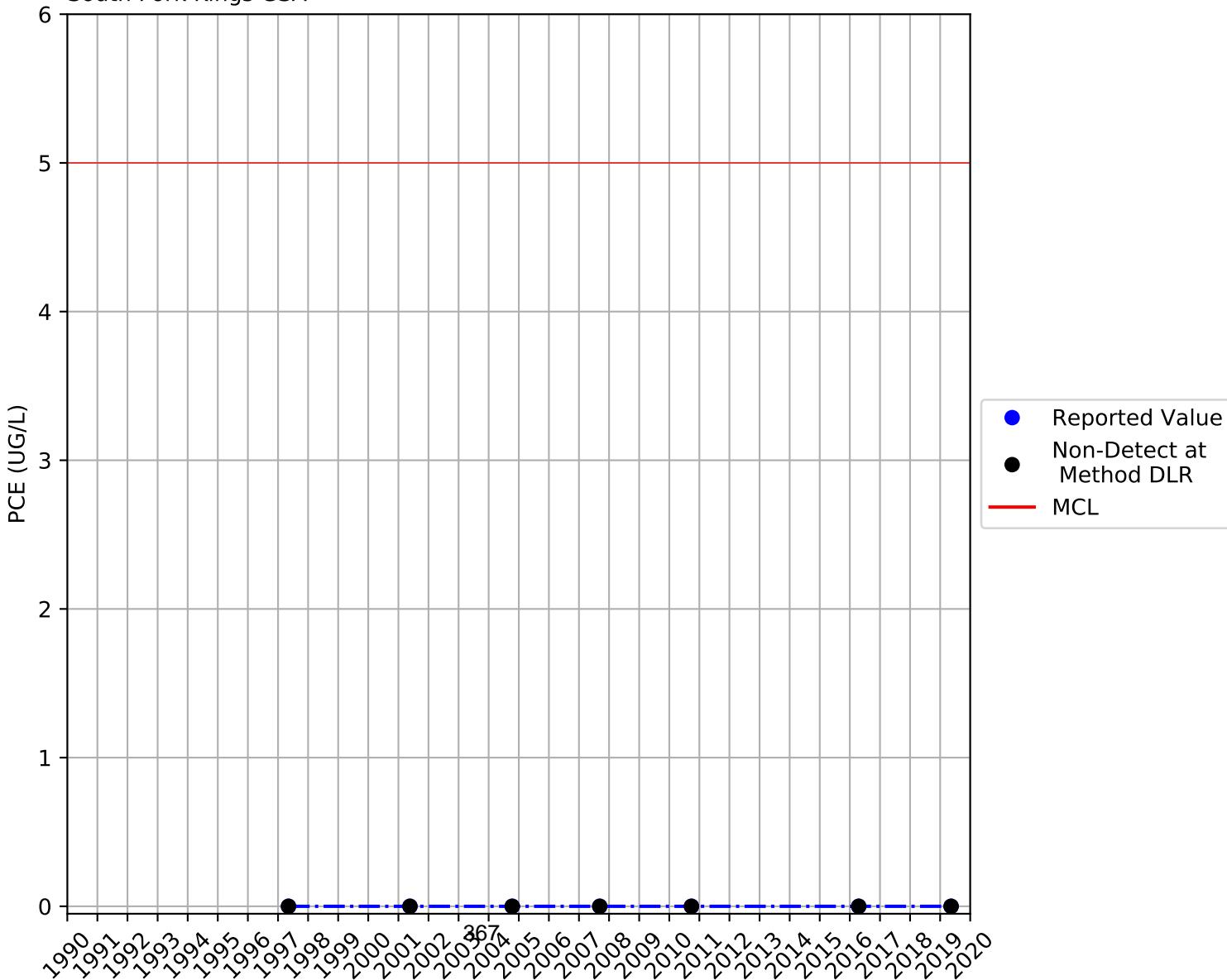
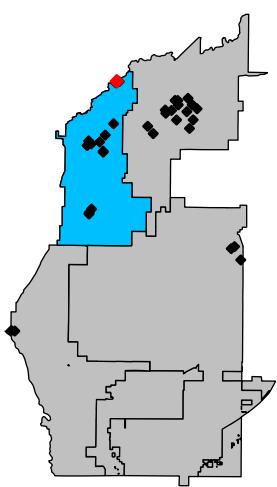
TETRACHLOROETHYLENE
1610005-007 WELL 08 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



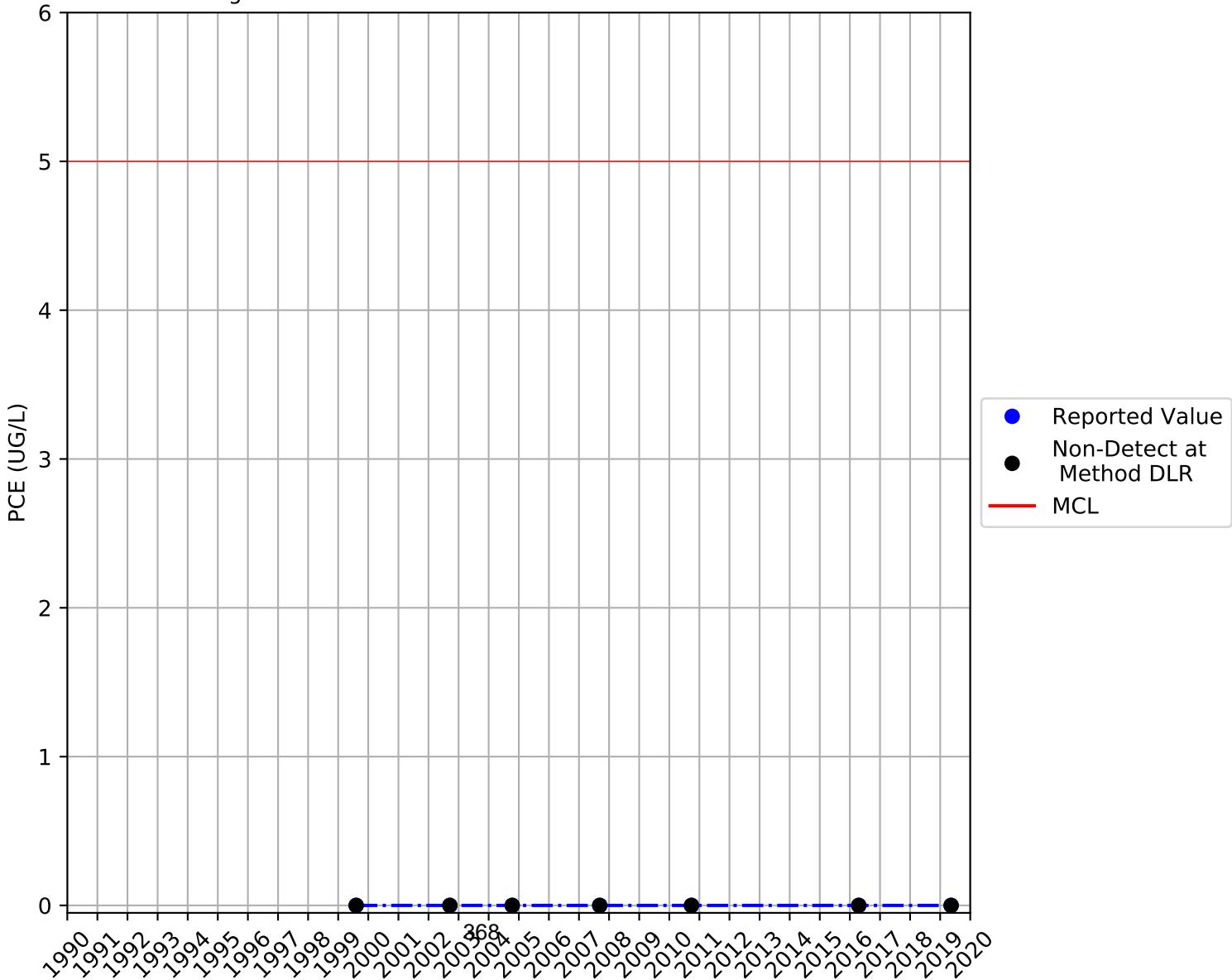
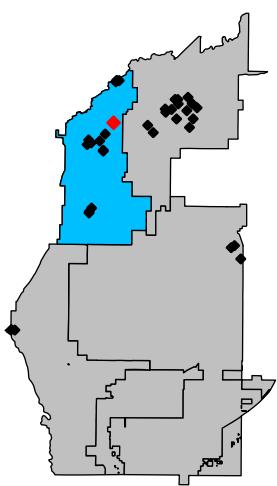
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1610005-008 WELL 09 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



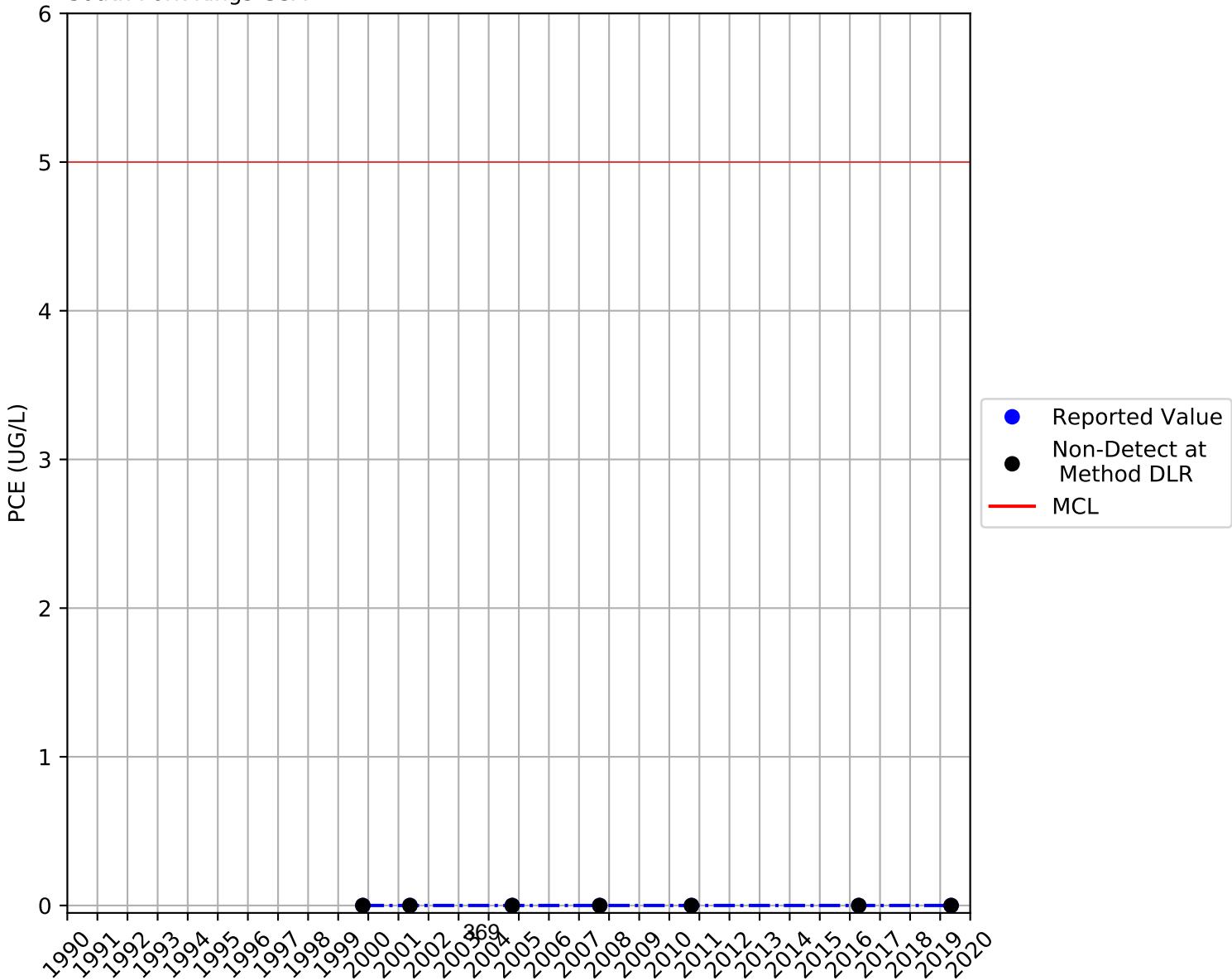
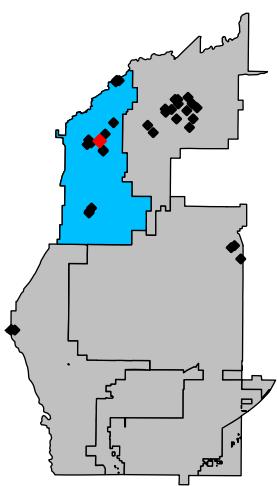
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South Fork Kings GSA



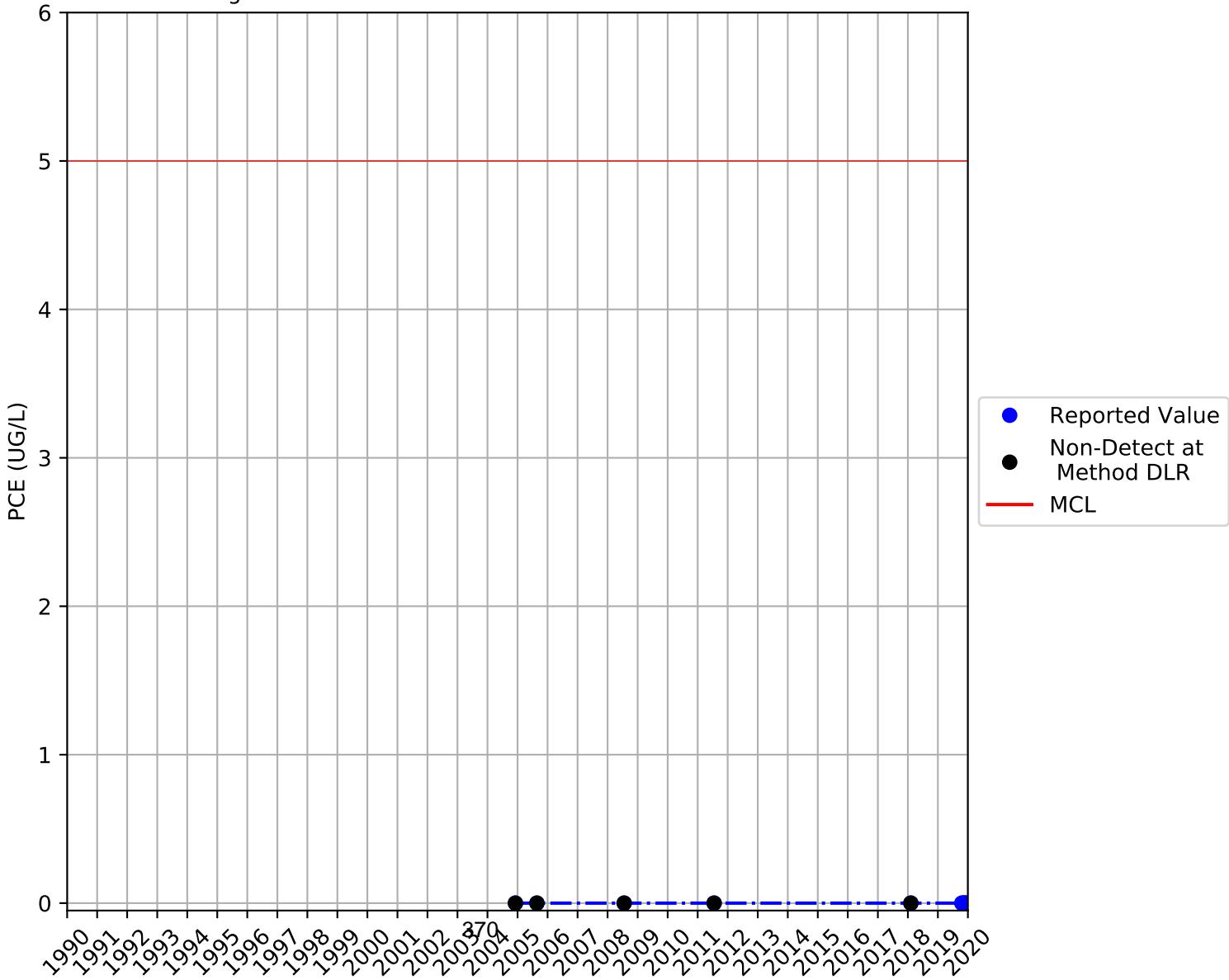
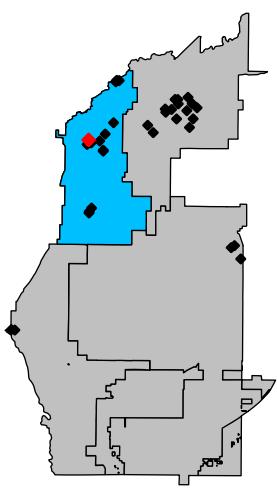
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1610005-010 WELL 11 - RAW
South Fork Kings GSA



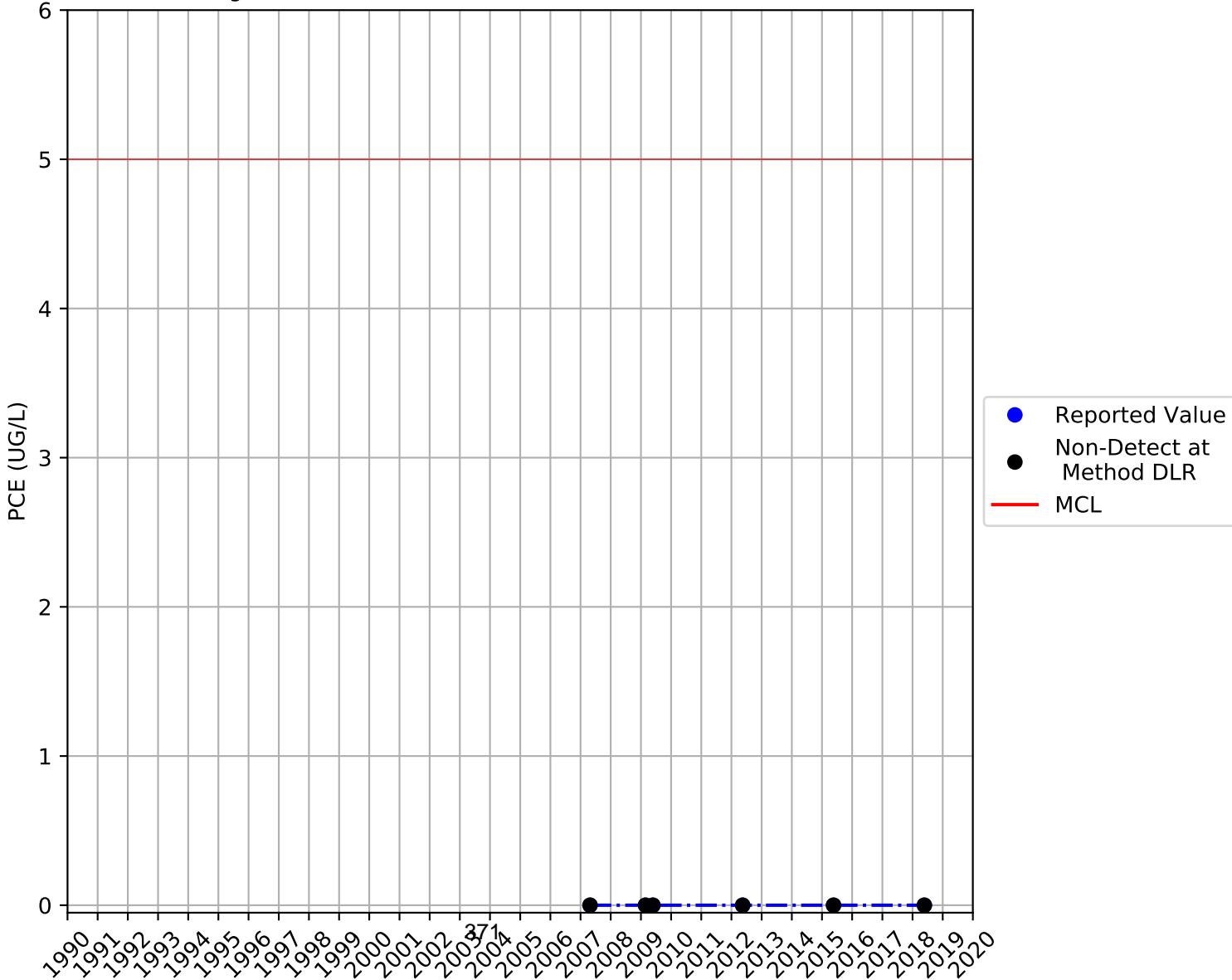
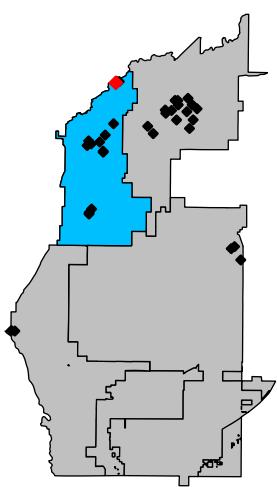
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South Fork Kings GSA



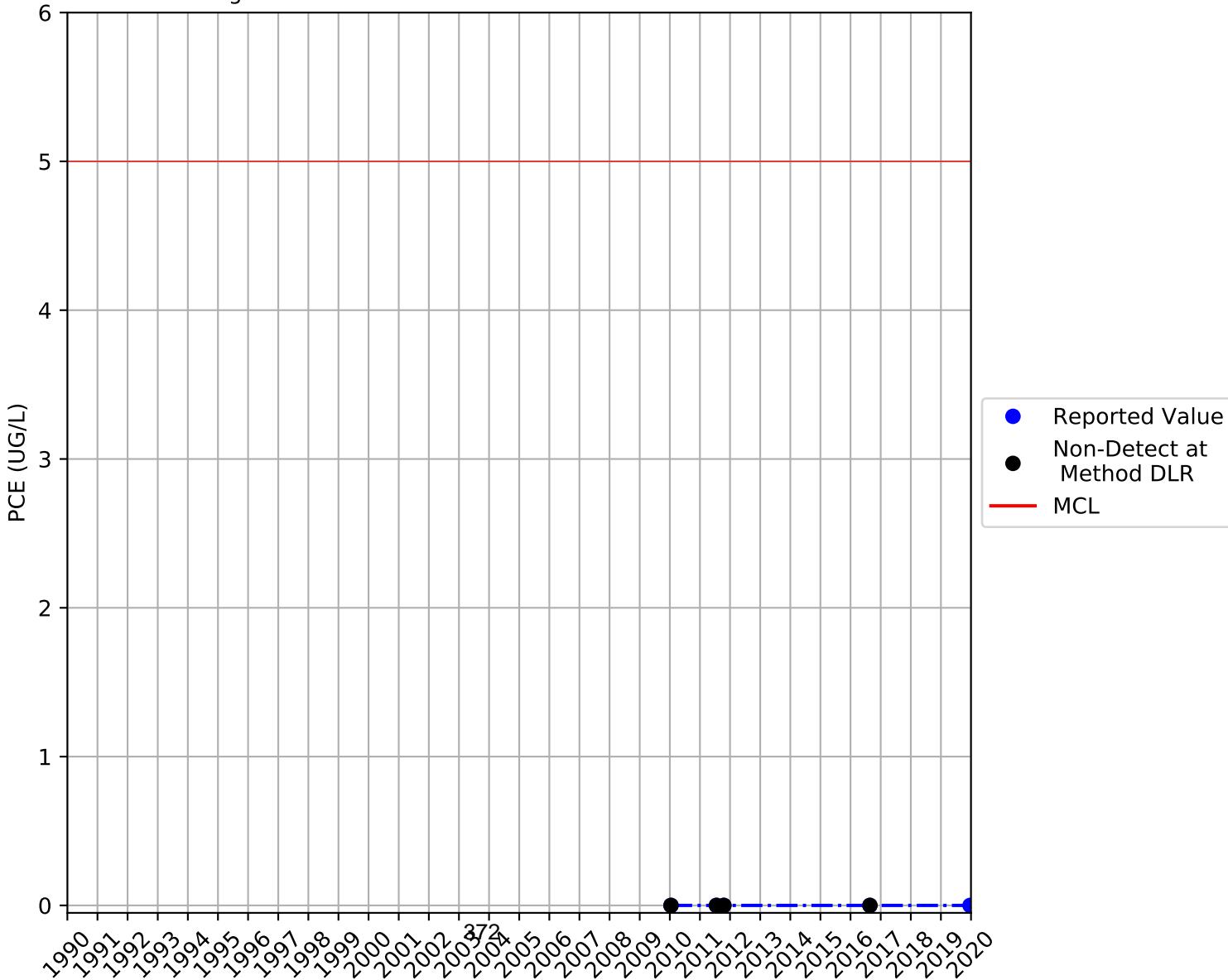
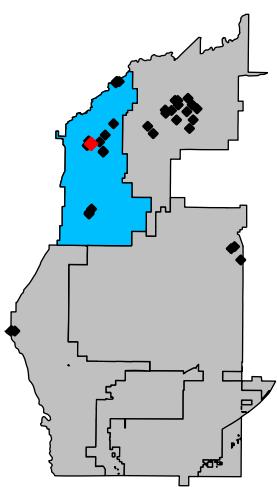
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South Fork Kings GSA



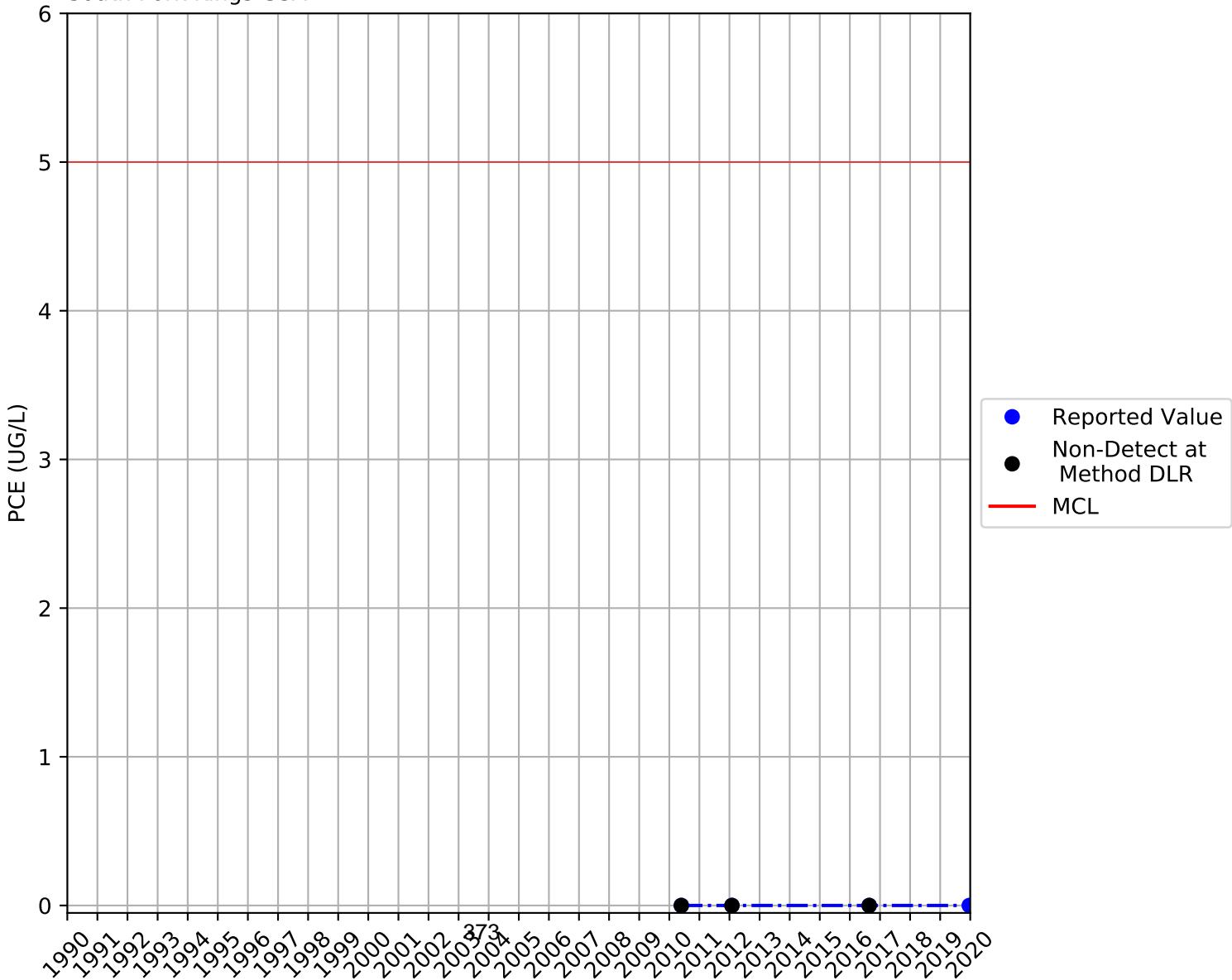
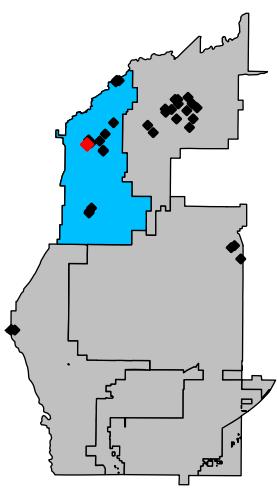
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South Fork Kings GSA



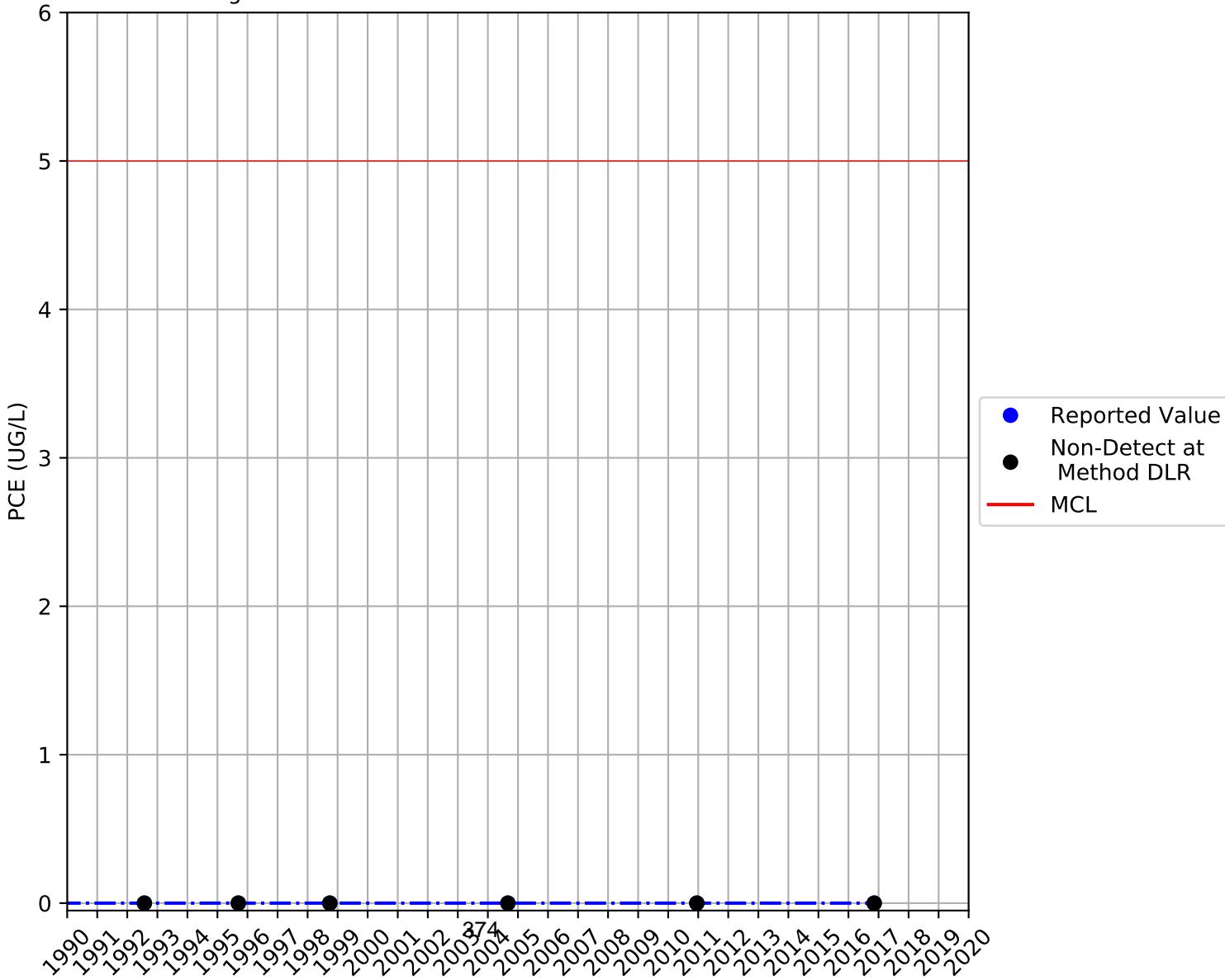
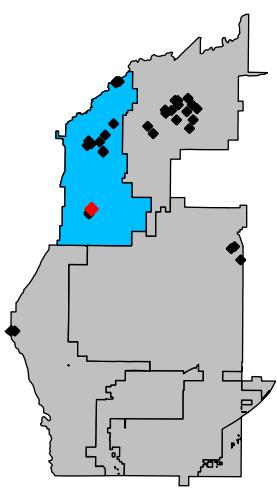
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South Fork Kings GSA



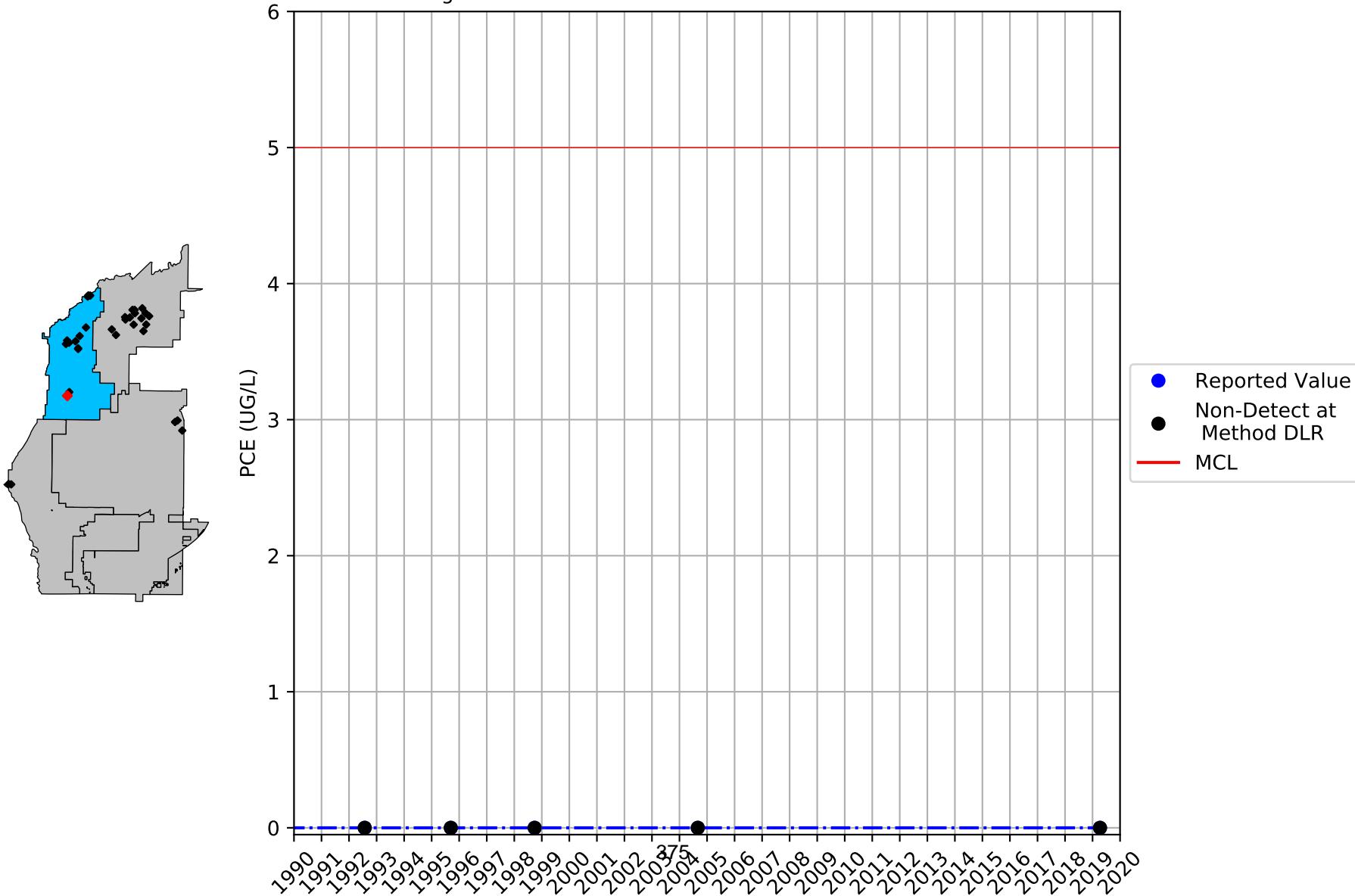
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South Fork Kings GSA



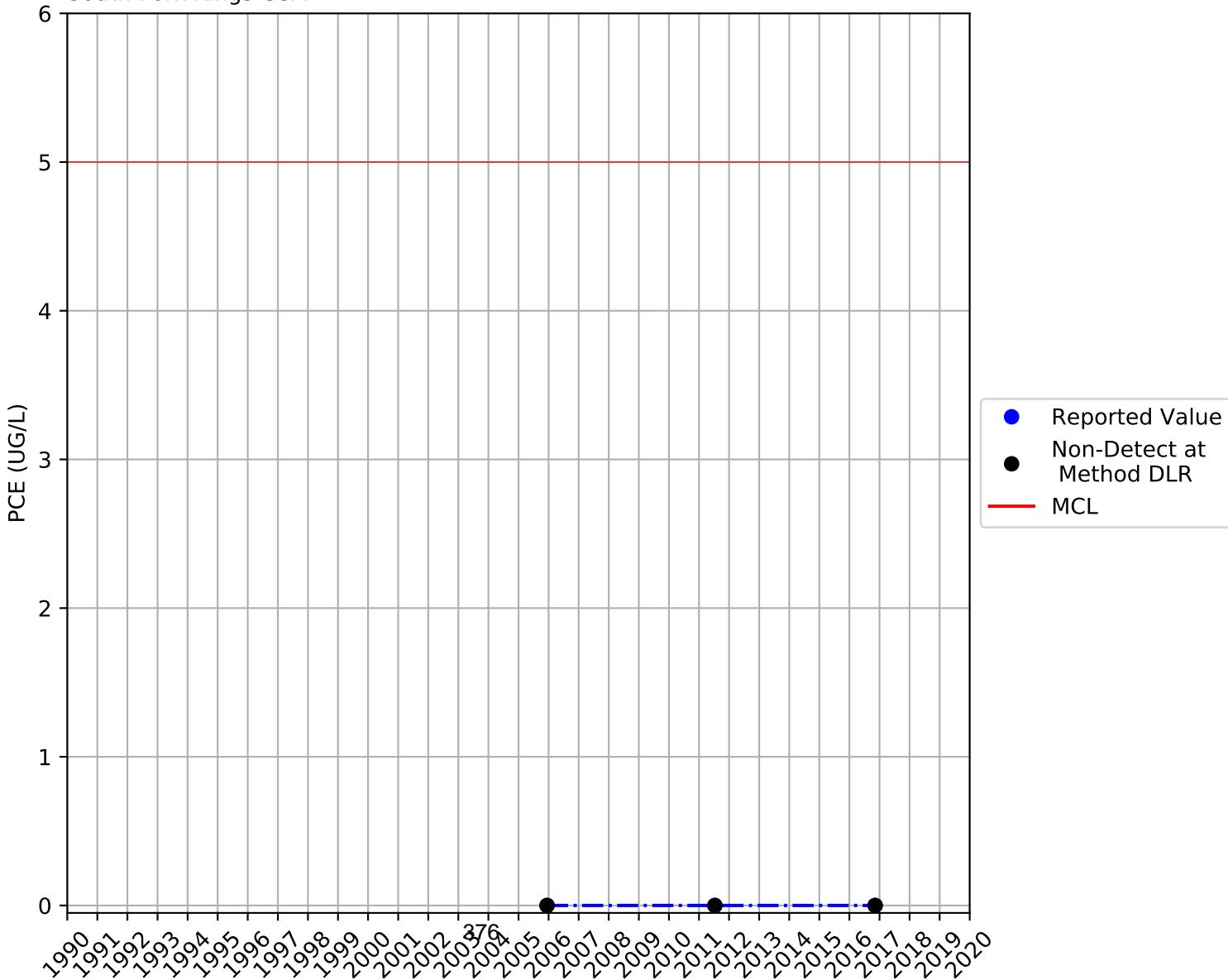
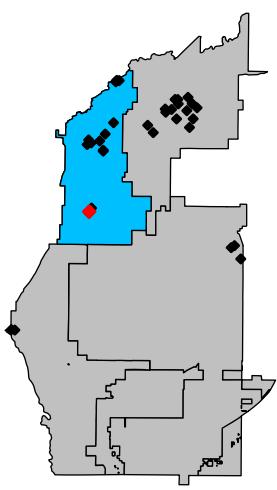
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South Fork Kings GSA



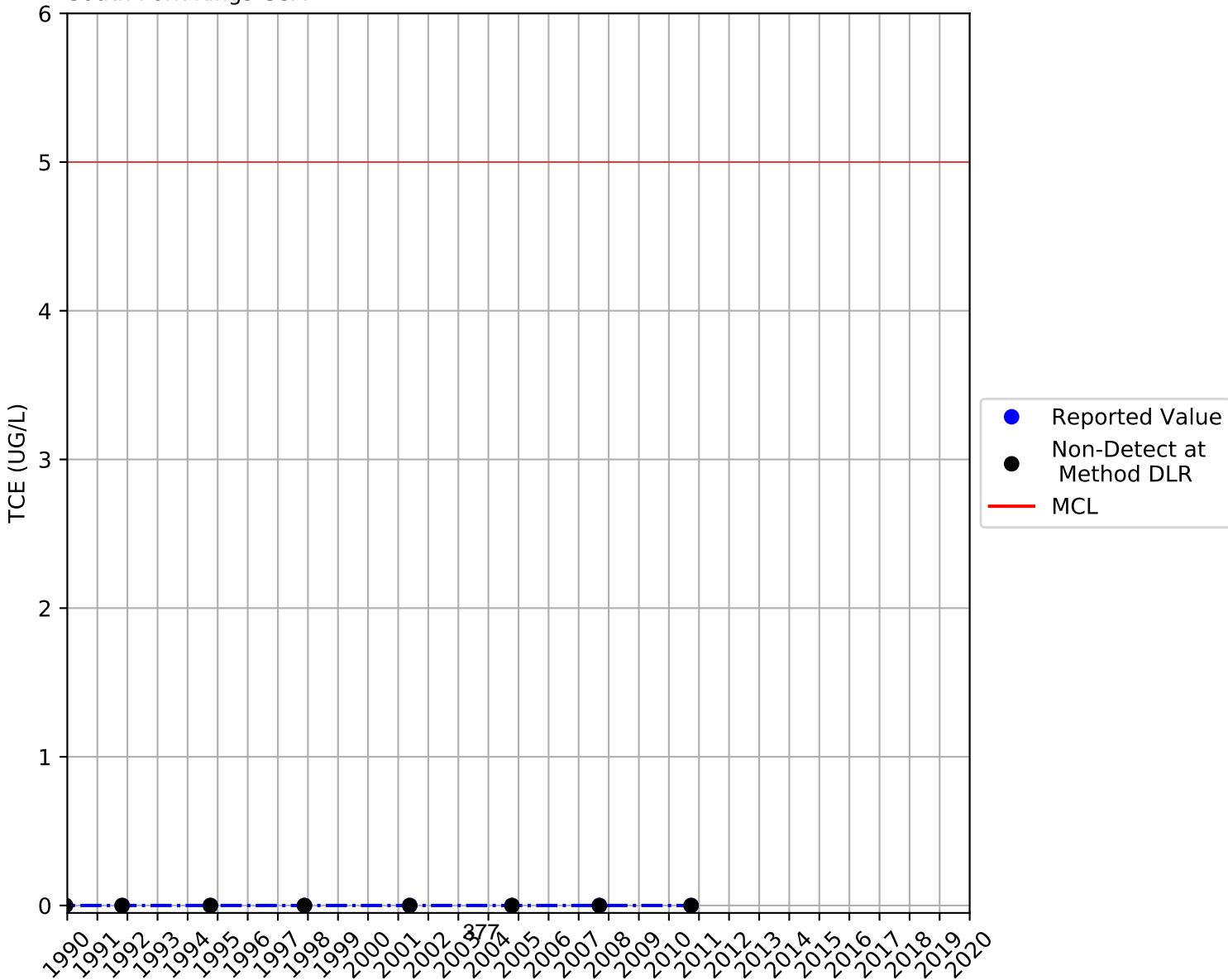
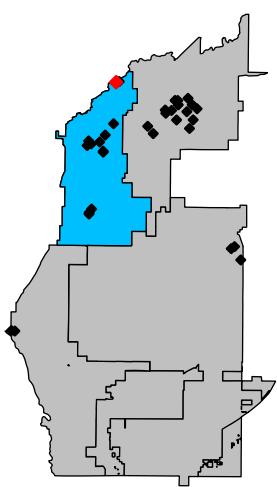
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1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



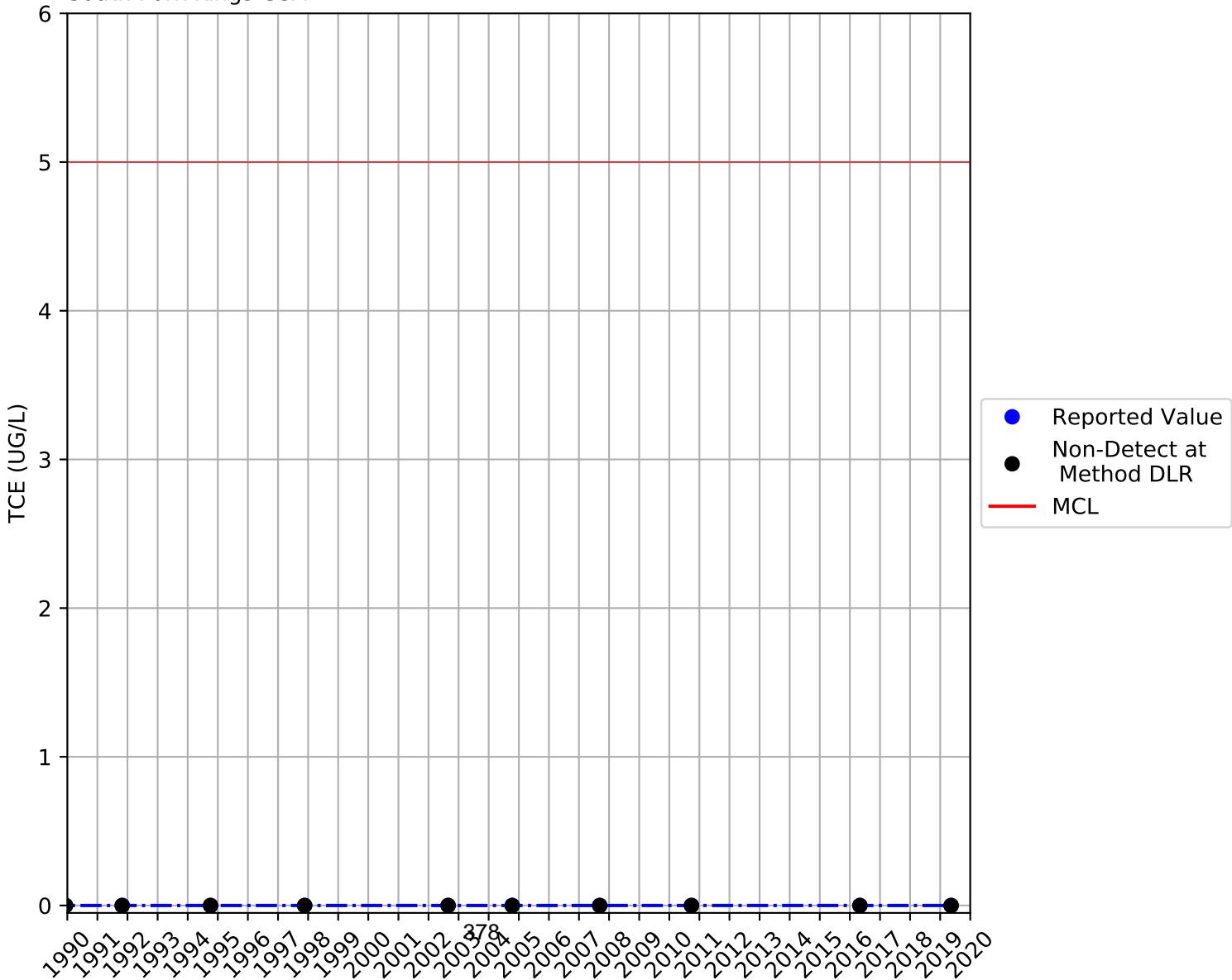
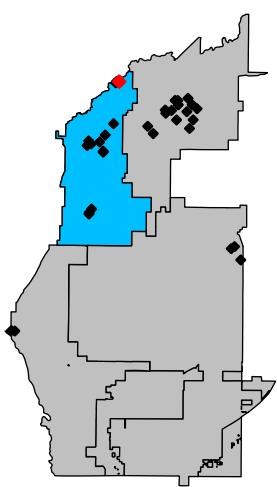
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South Fork Kings GSA



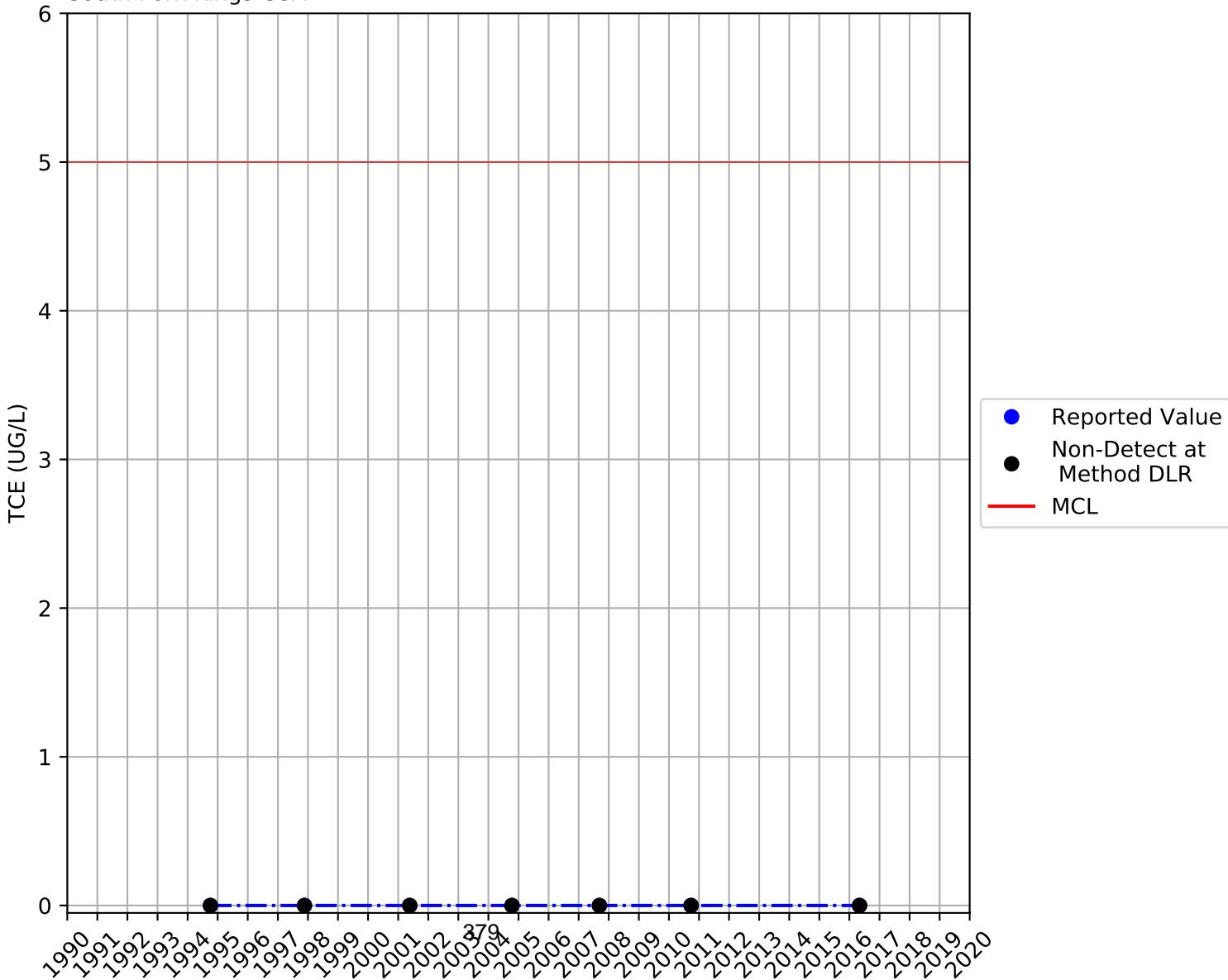
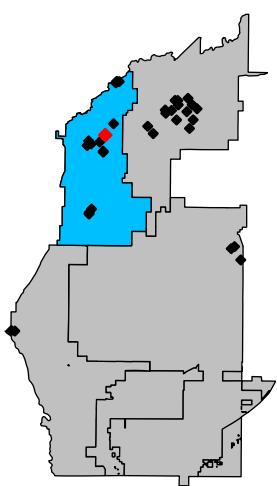
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1610005-003 WELL N-2 - RAW
South Fork Kings GSA



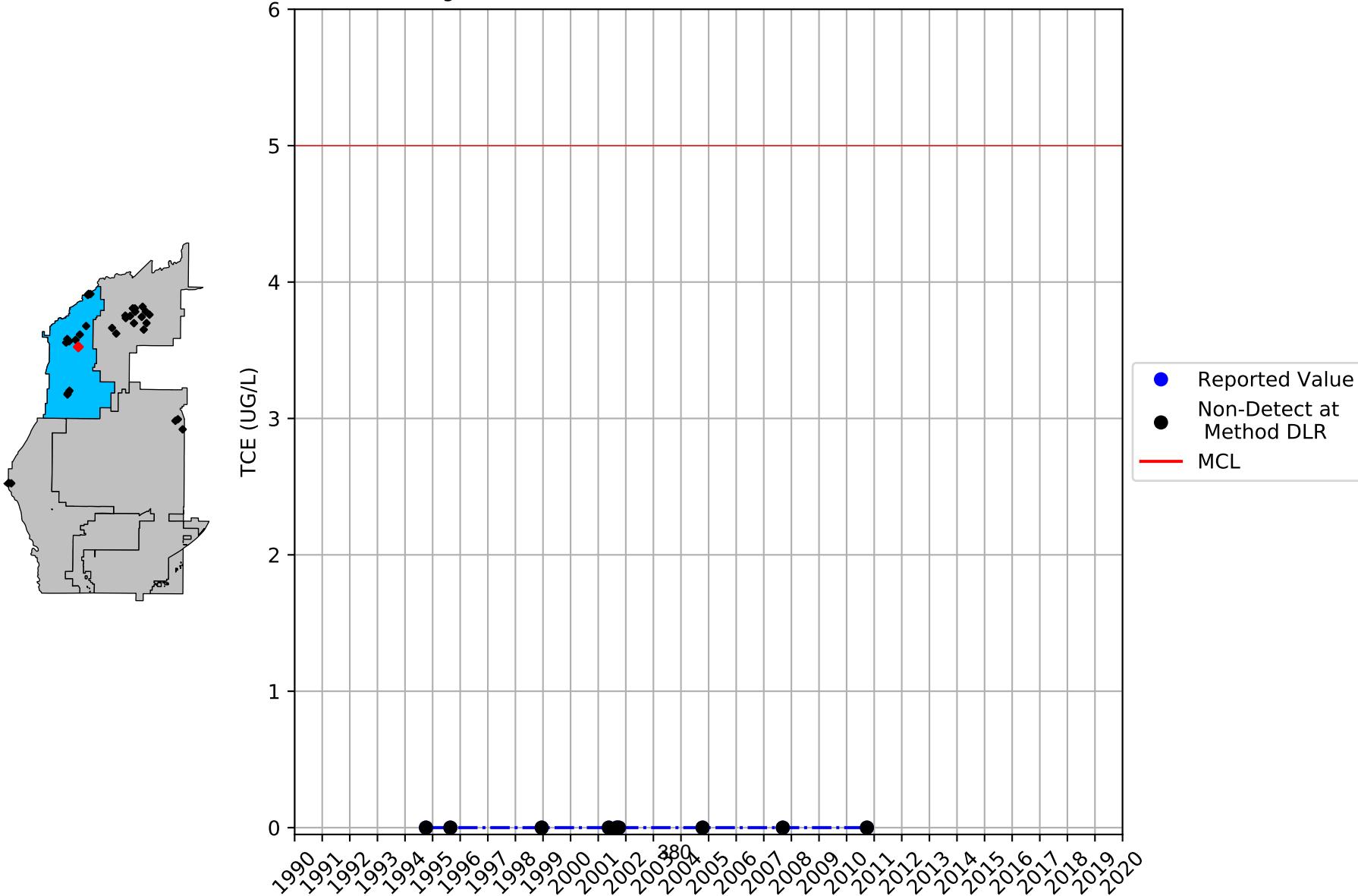
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South Fork Kings GSA



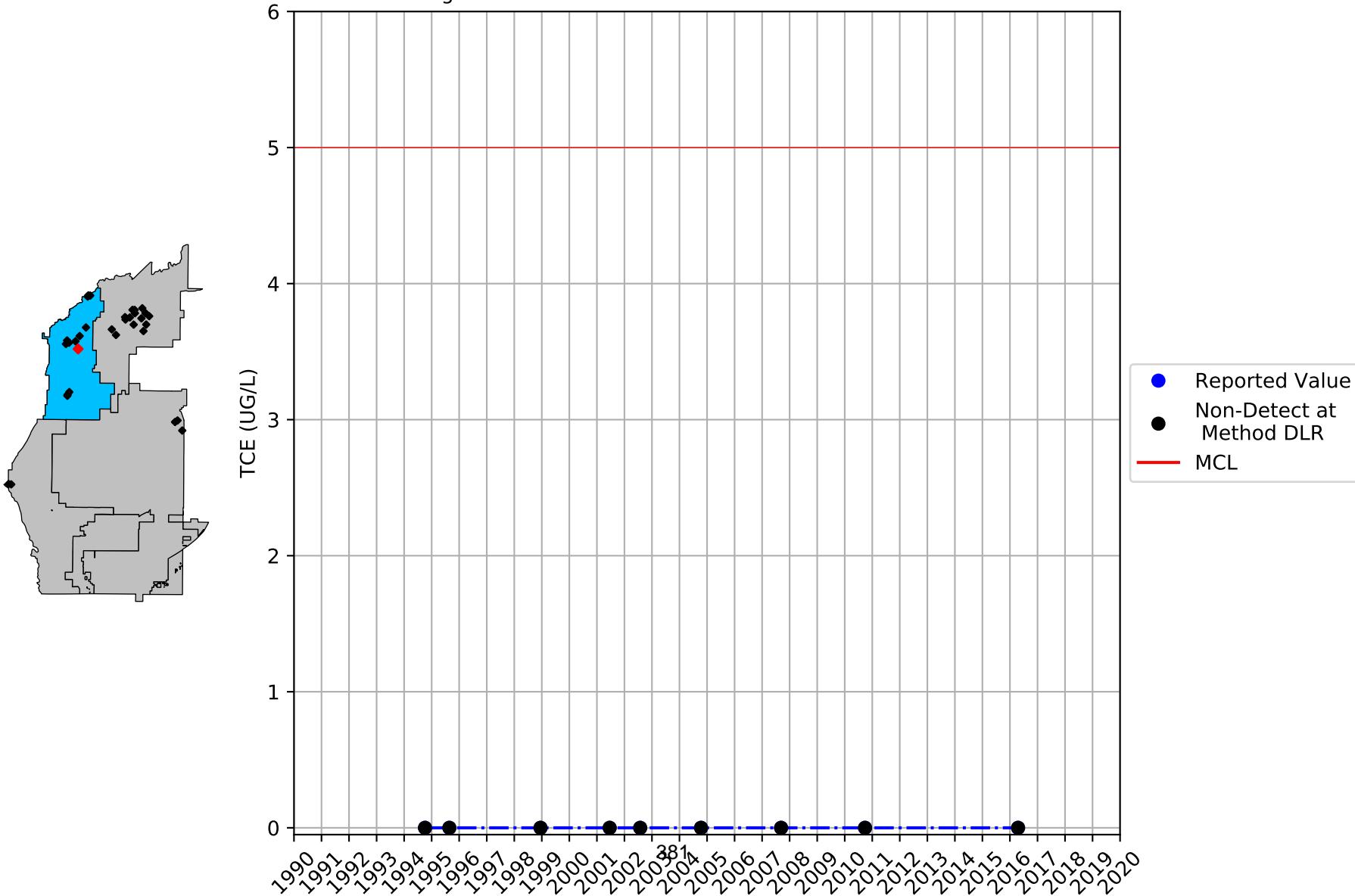
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1610005-006 WELL 10 - RAW
South Fork Kings GSA



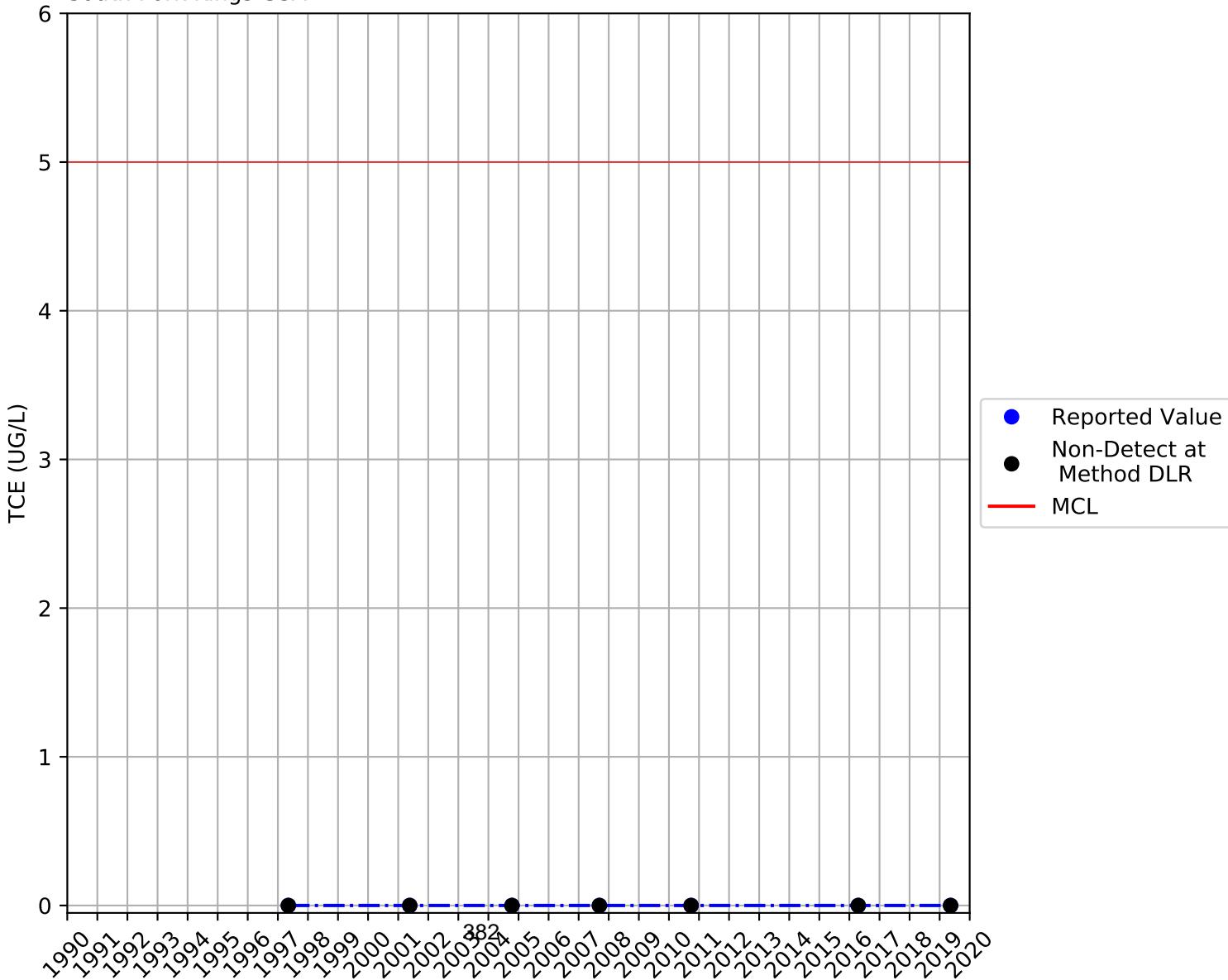
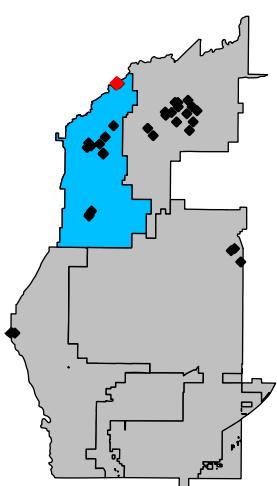
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1610005-007 WELL 08 - RAW (SERVES TOMATO PLNT)
South Fork Kings GSA



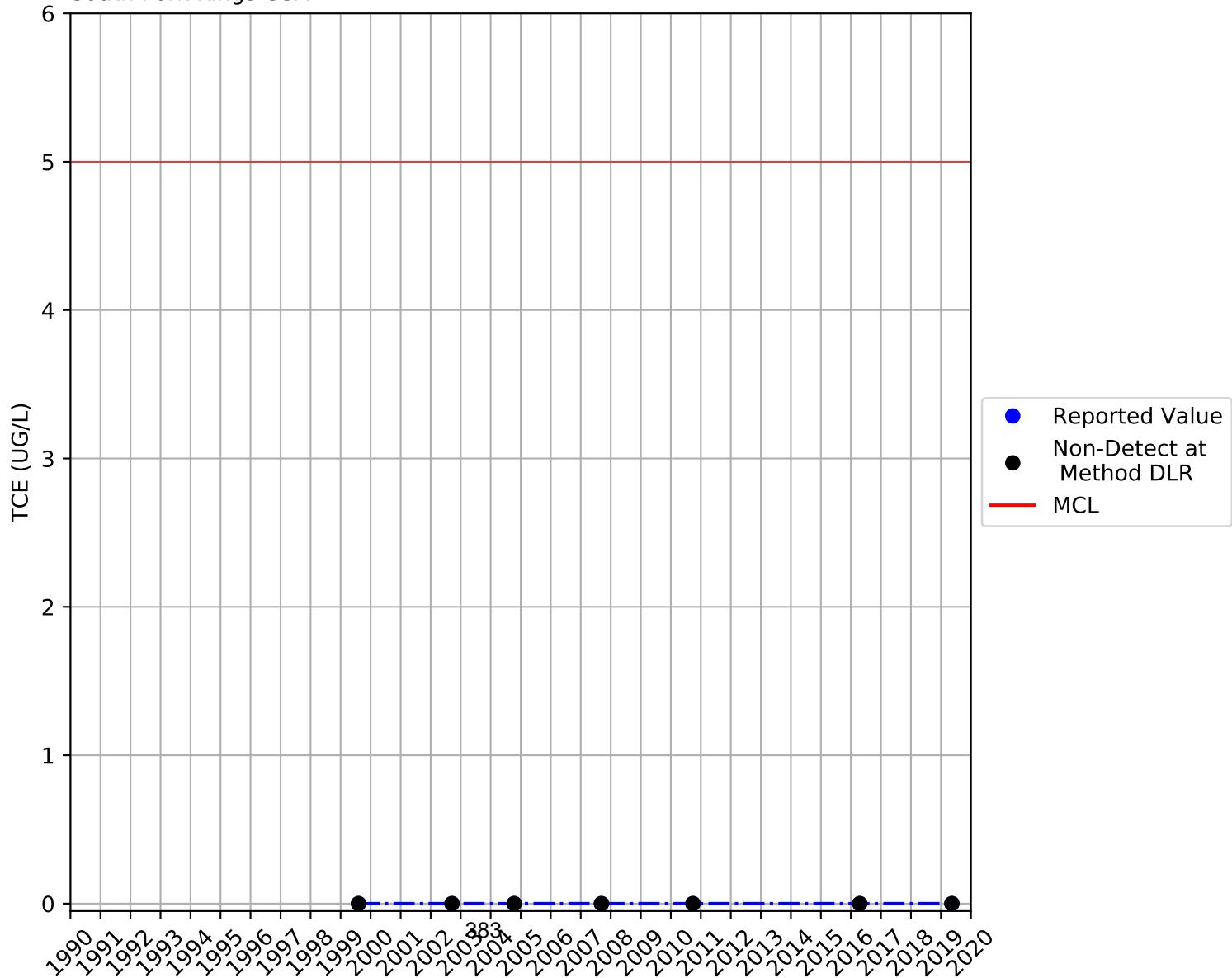
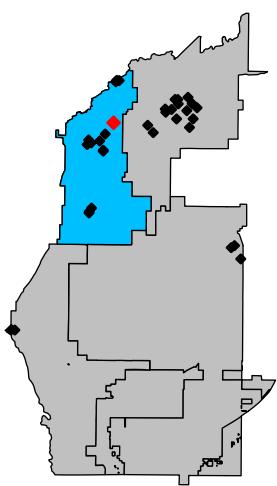
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South Fork Kings GSA



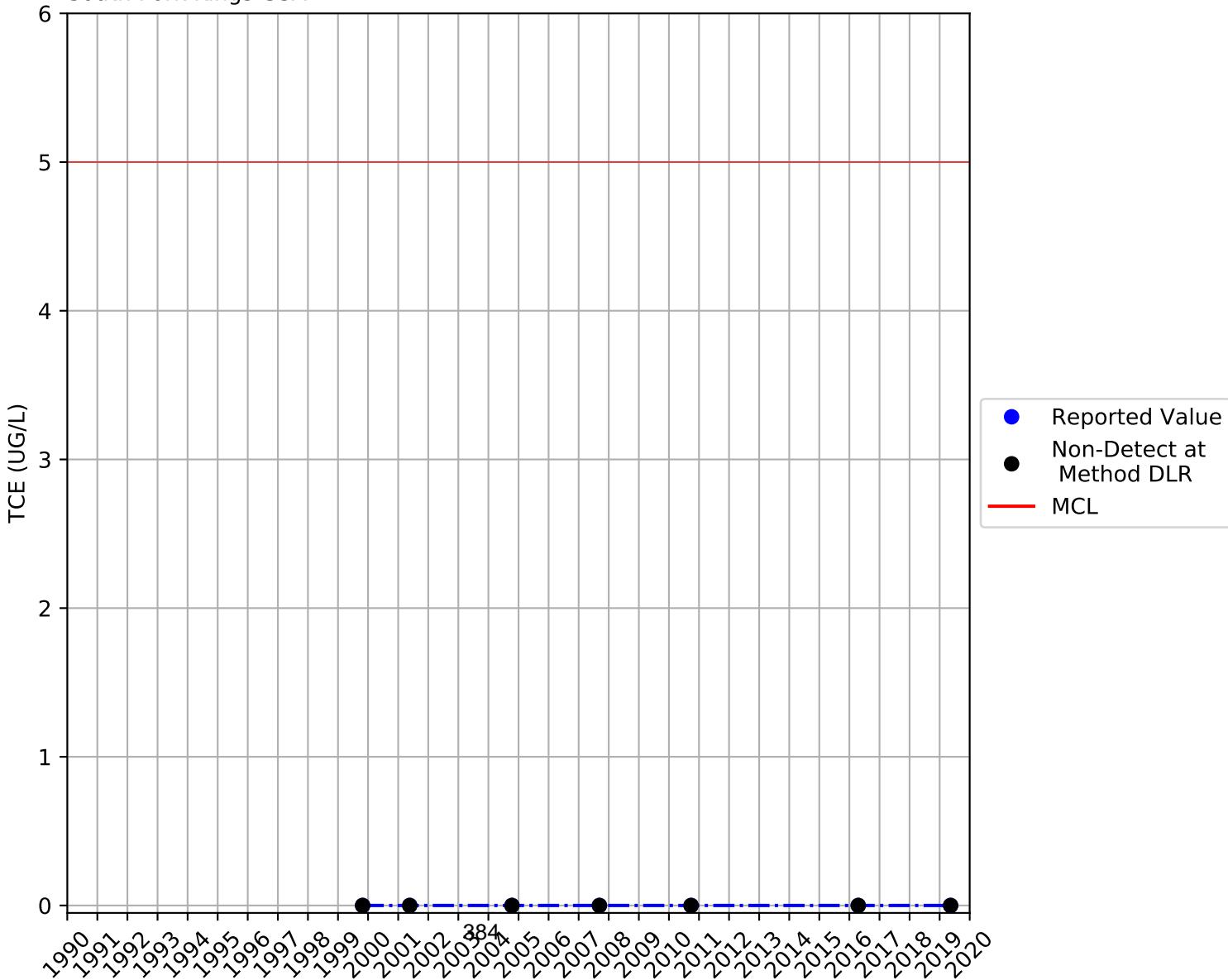
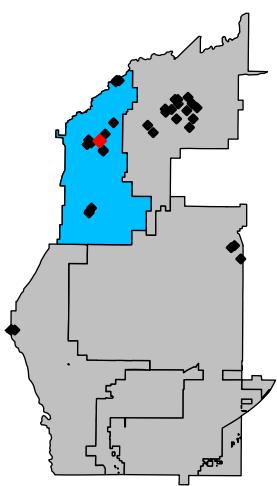
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South Fork Kings GSA



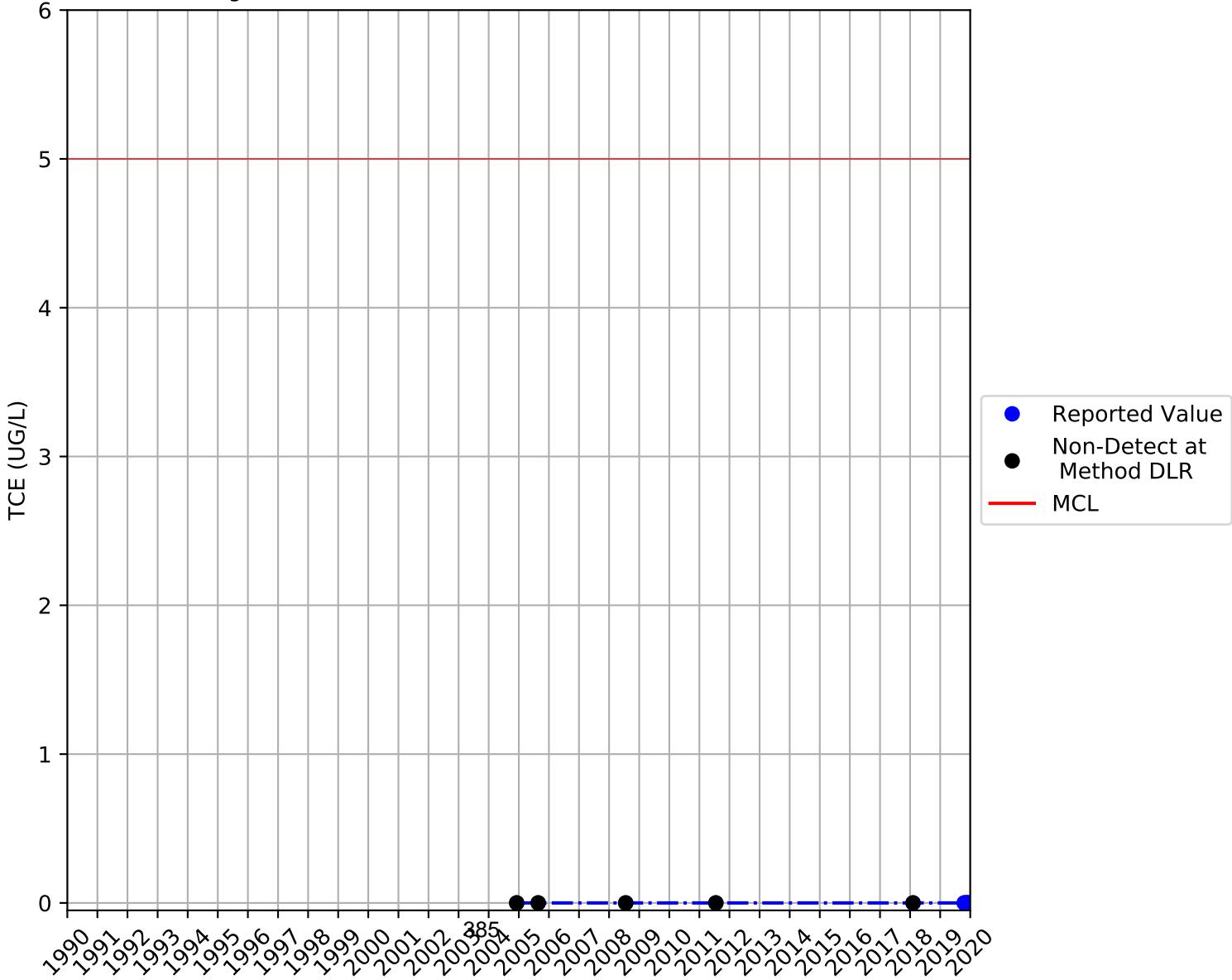
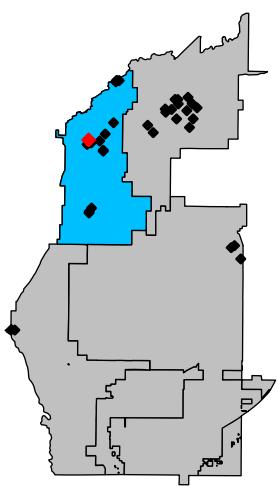
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South Fork Kings GSA



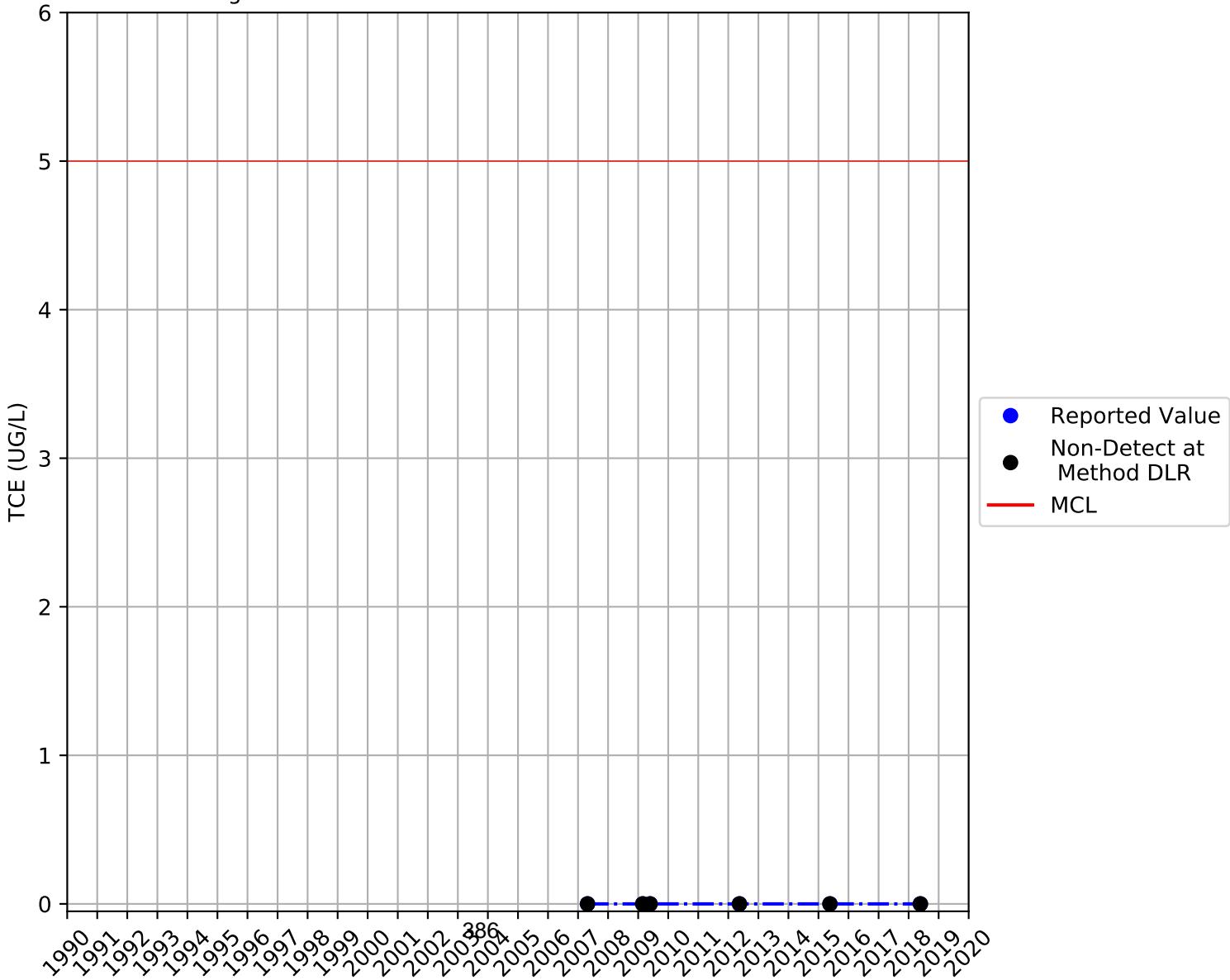
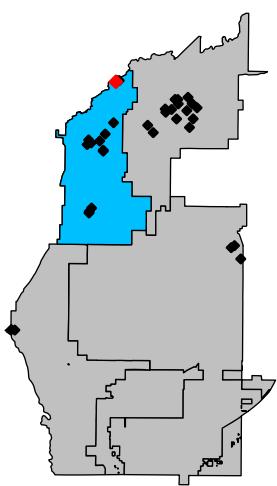
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South Fork Kings GSA



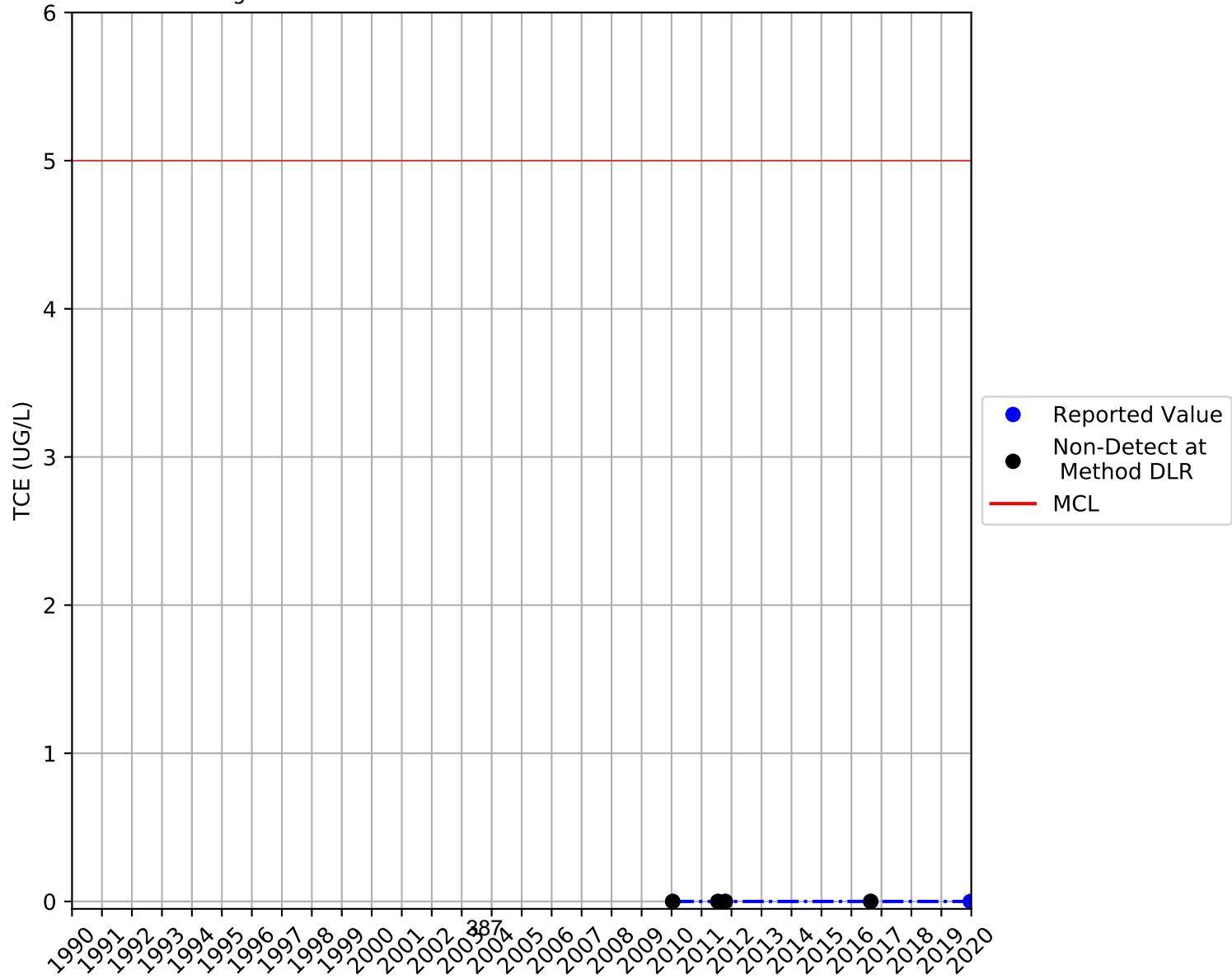
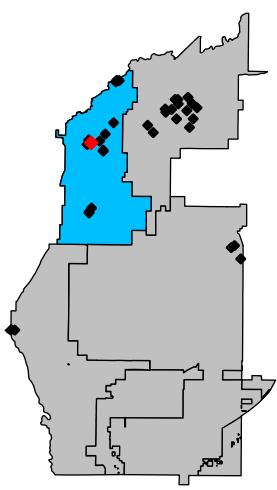
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South Fork Kings GSA



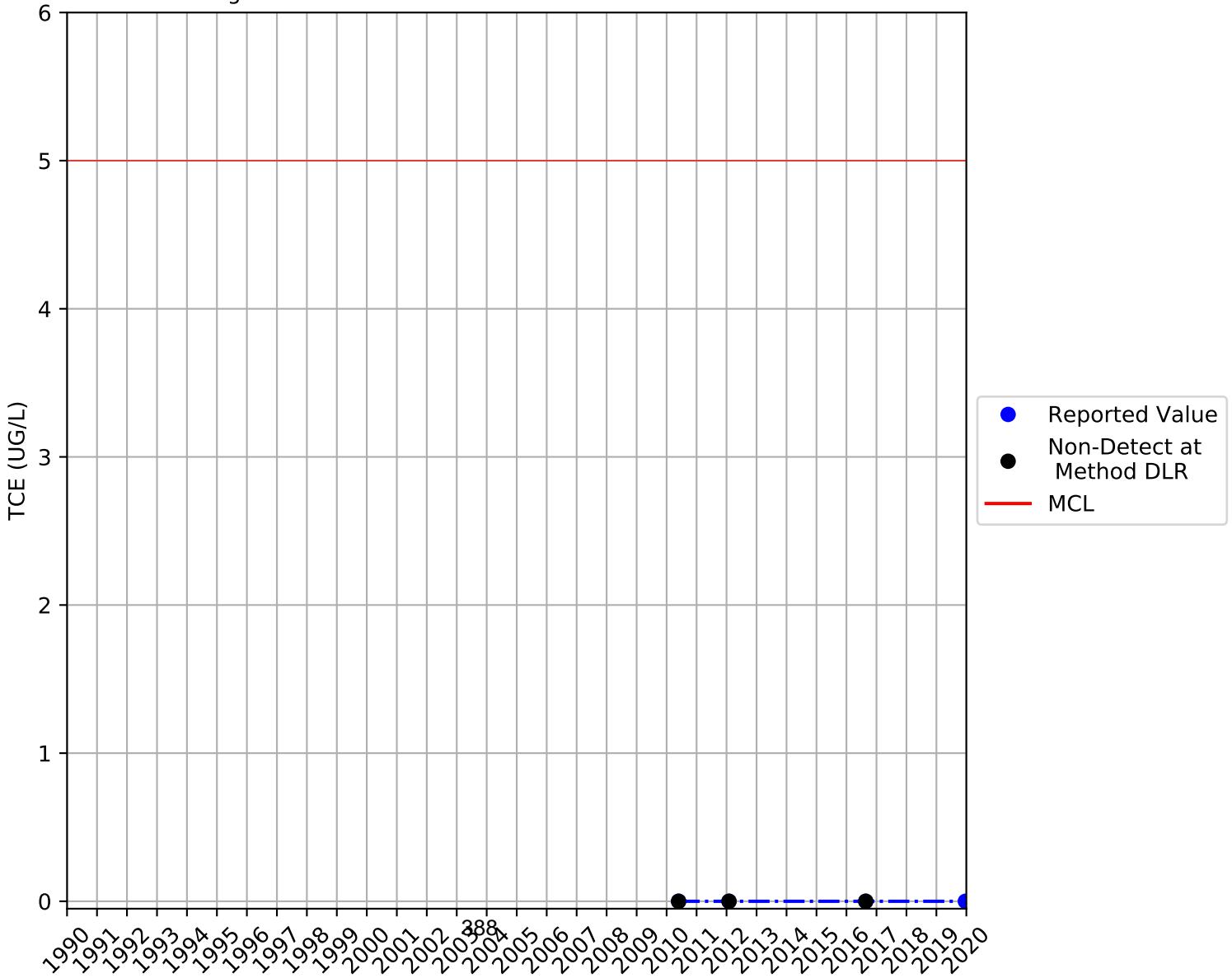
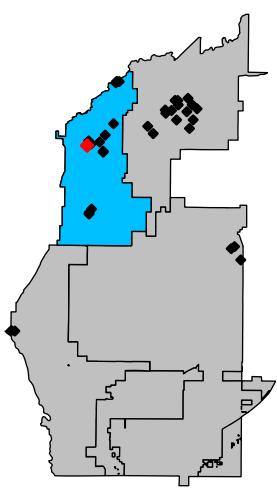
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South Fork Kings GSA



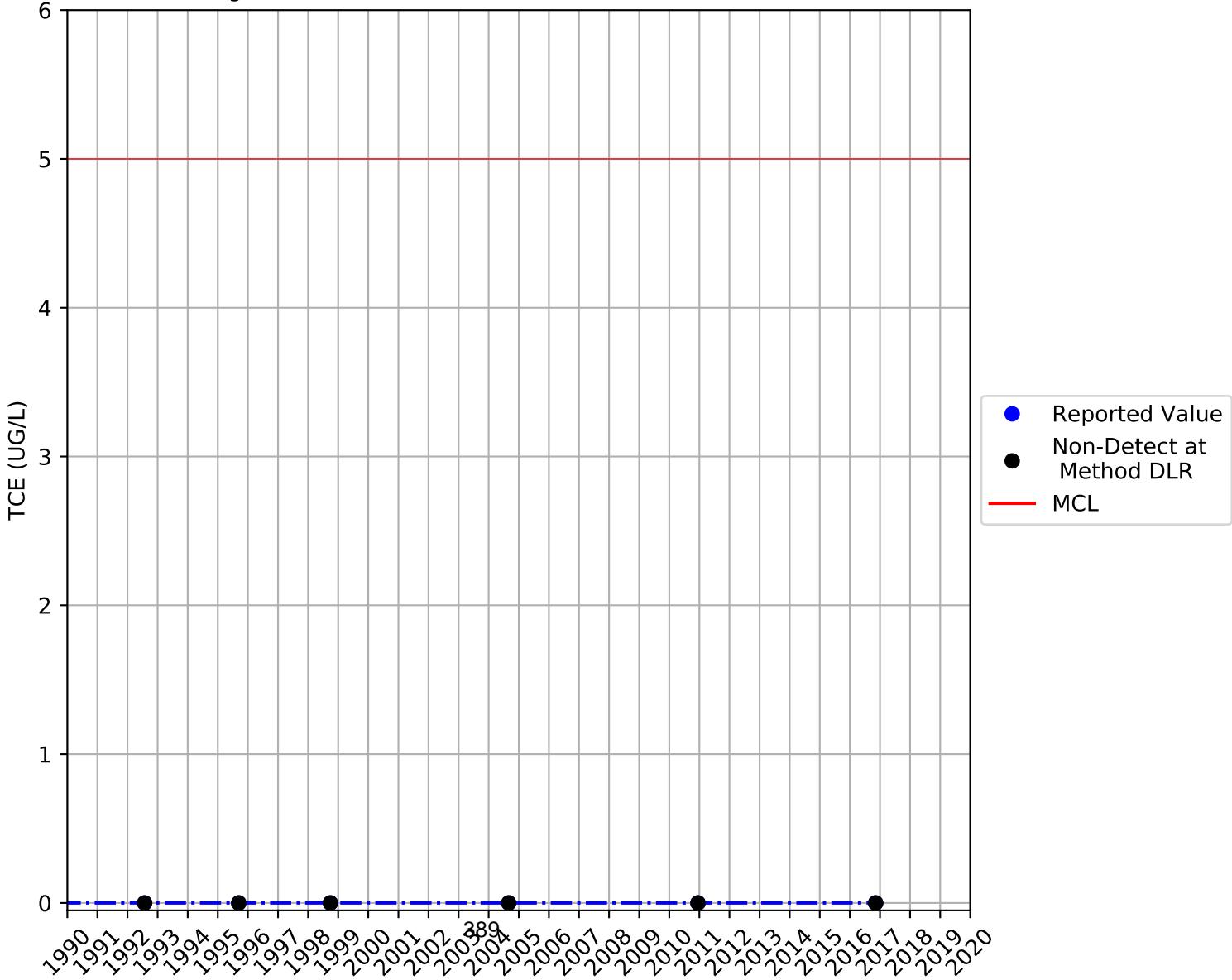
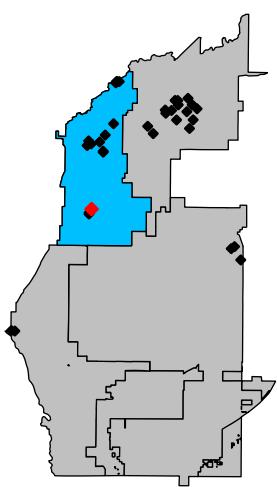
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South Fork Kings GSA



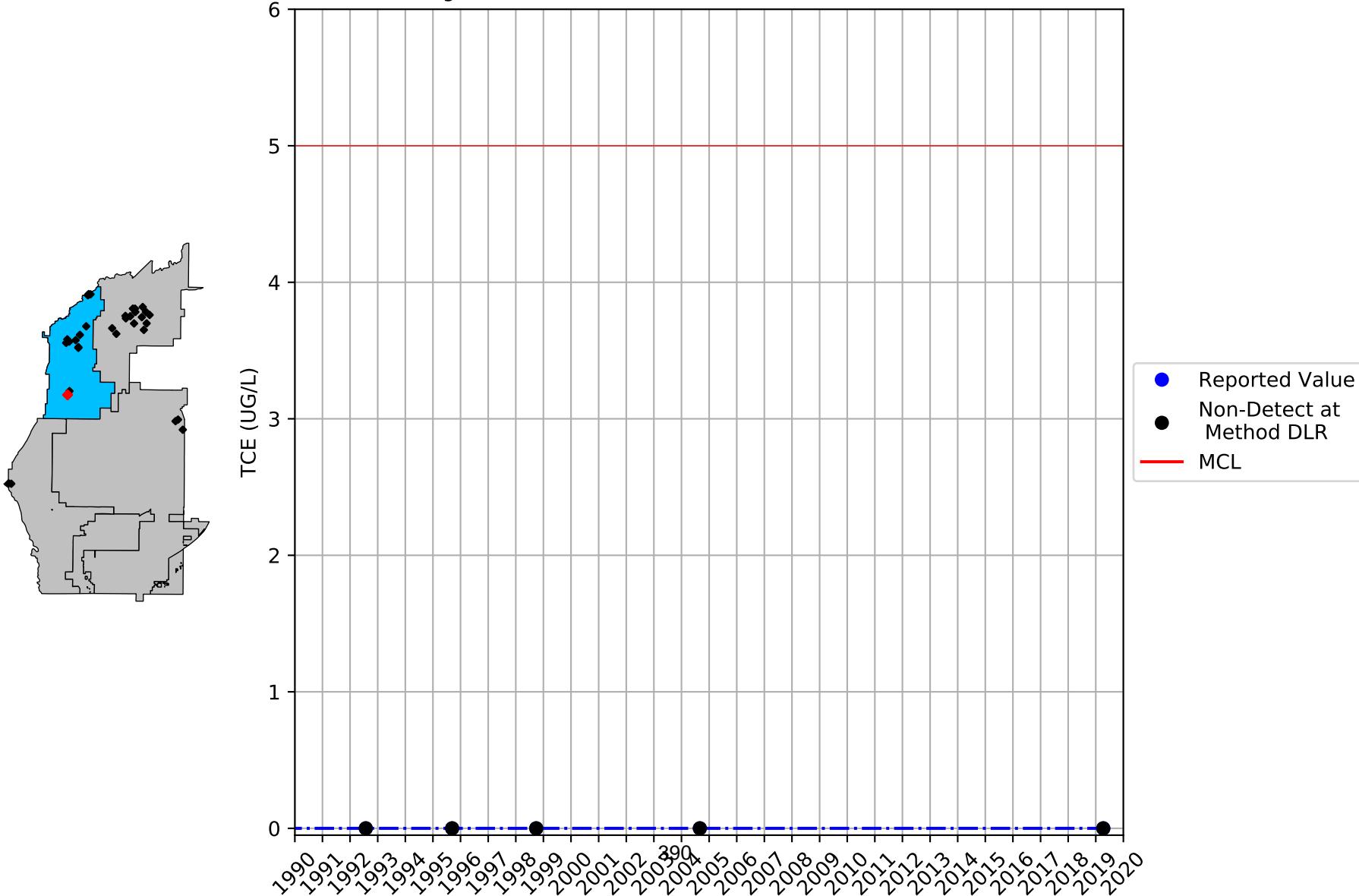
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1610005-022 WELL 14 - RAW
South Fork Kings GSA



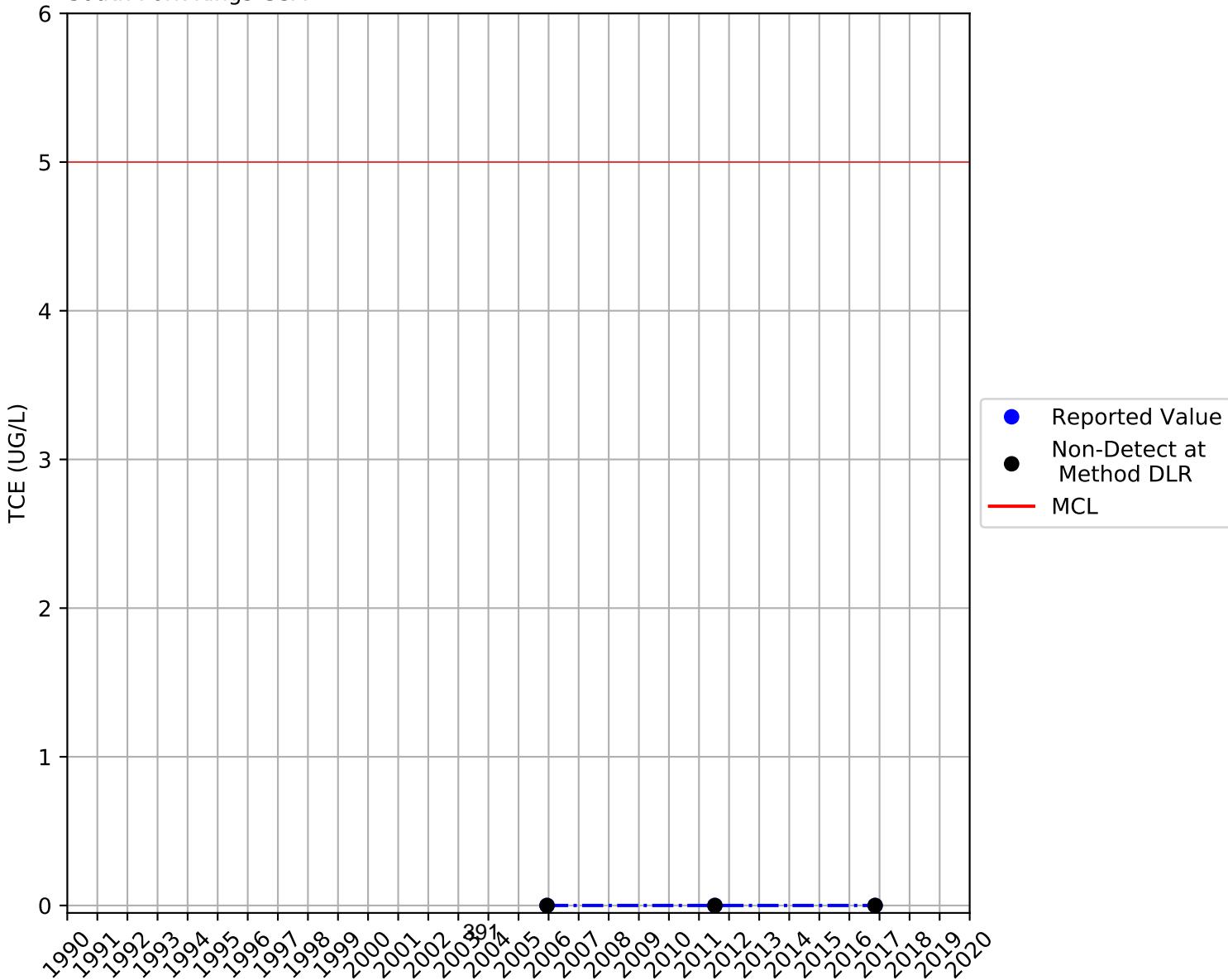
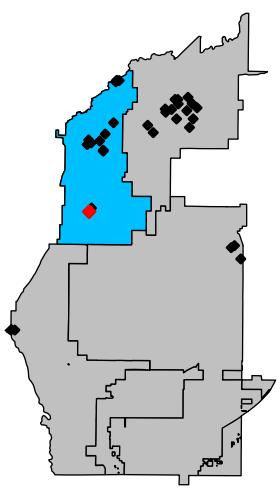
TRICHLOROETHYLENE
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South Fork Kings GSA



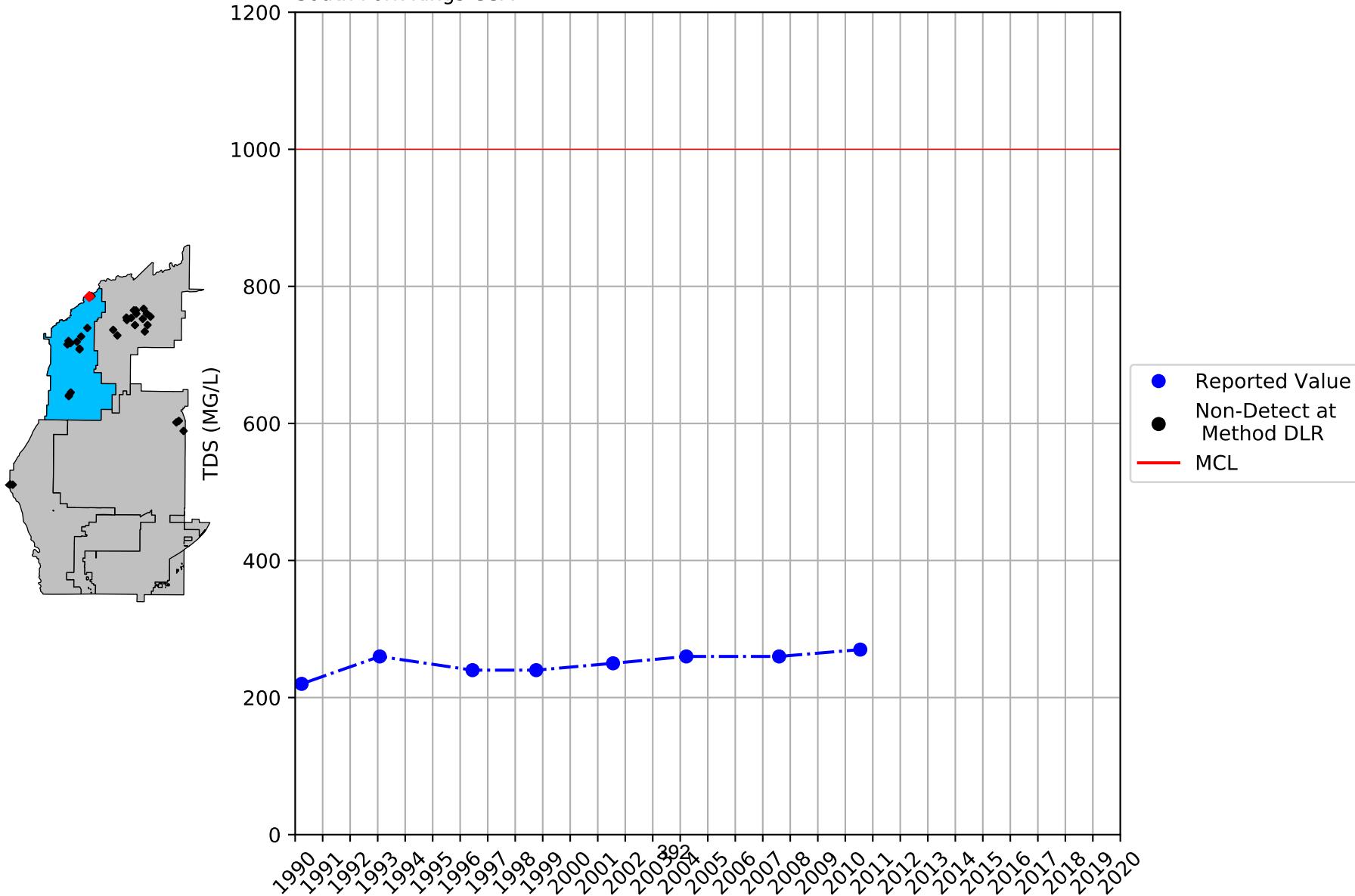
TRICHLOROETHYLENE
1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



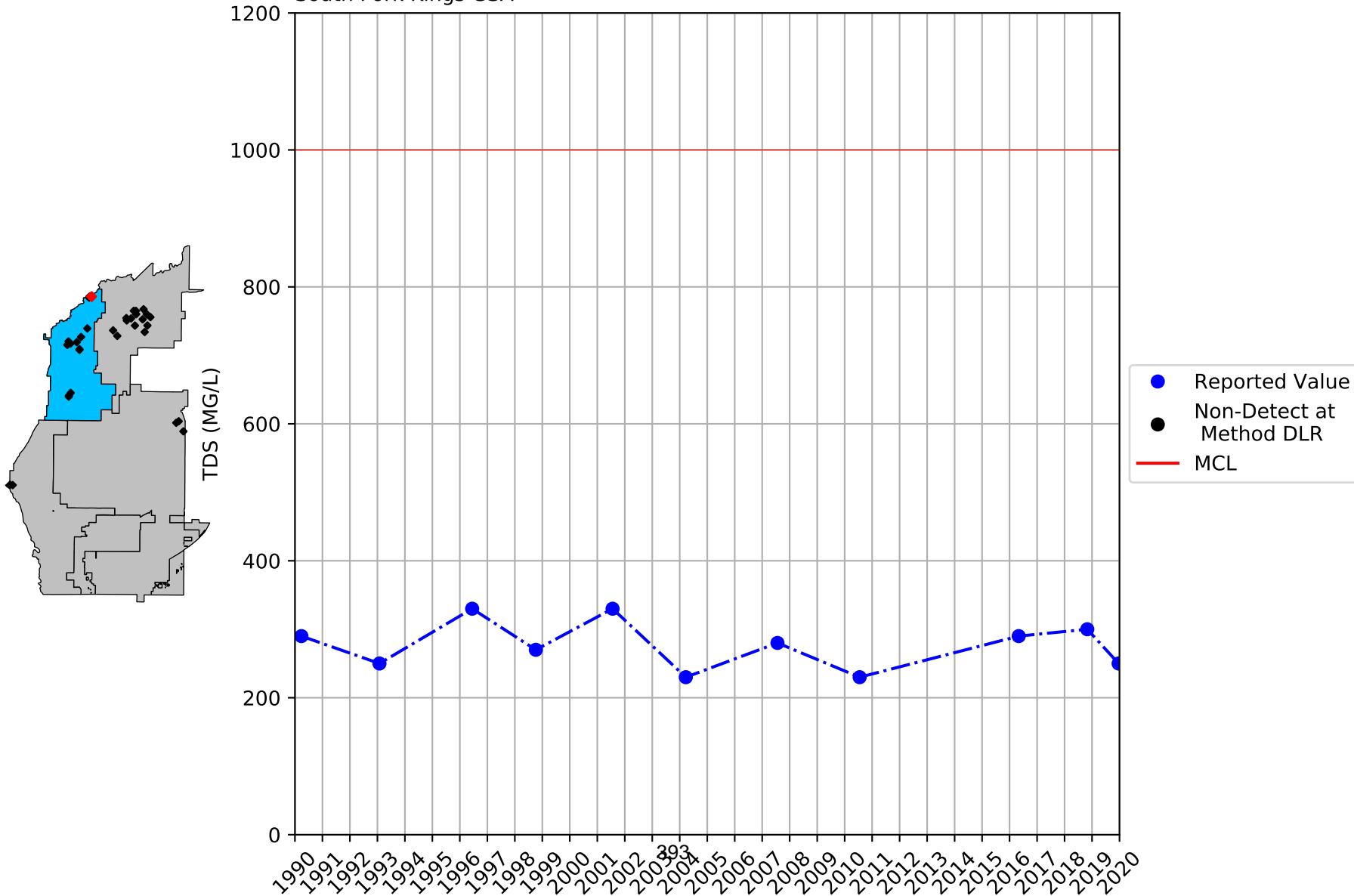
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South Fork Kings GSA



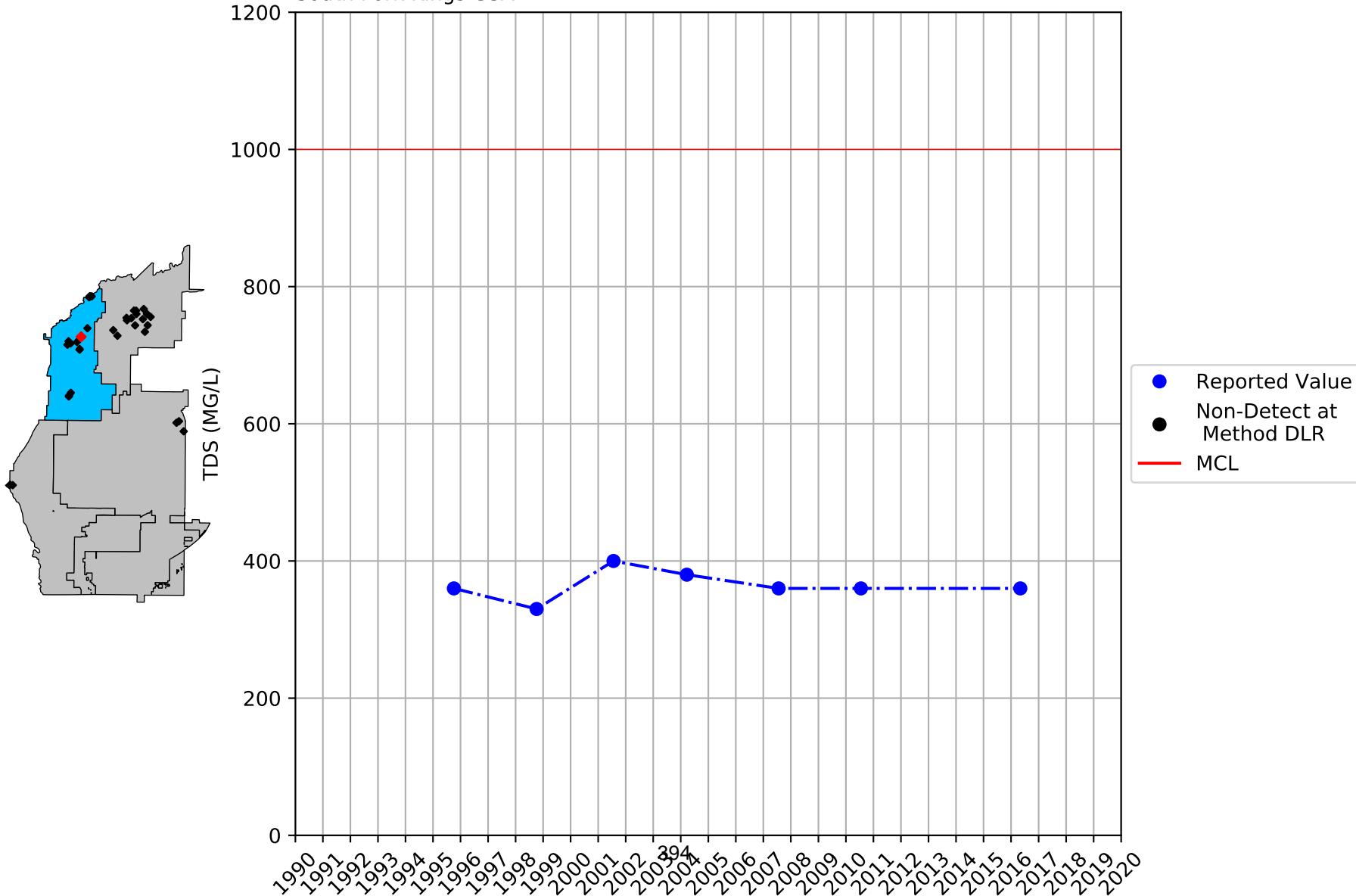
TOTAL DISSOLVED SOLIDS
1610005-003 WELL N-2 - RAW
South Fork Kings GSA



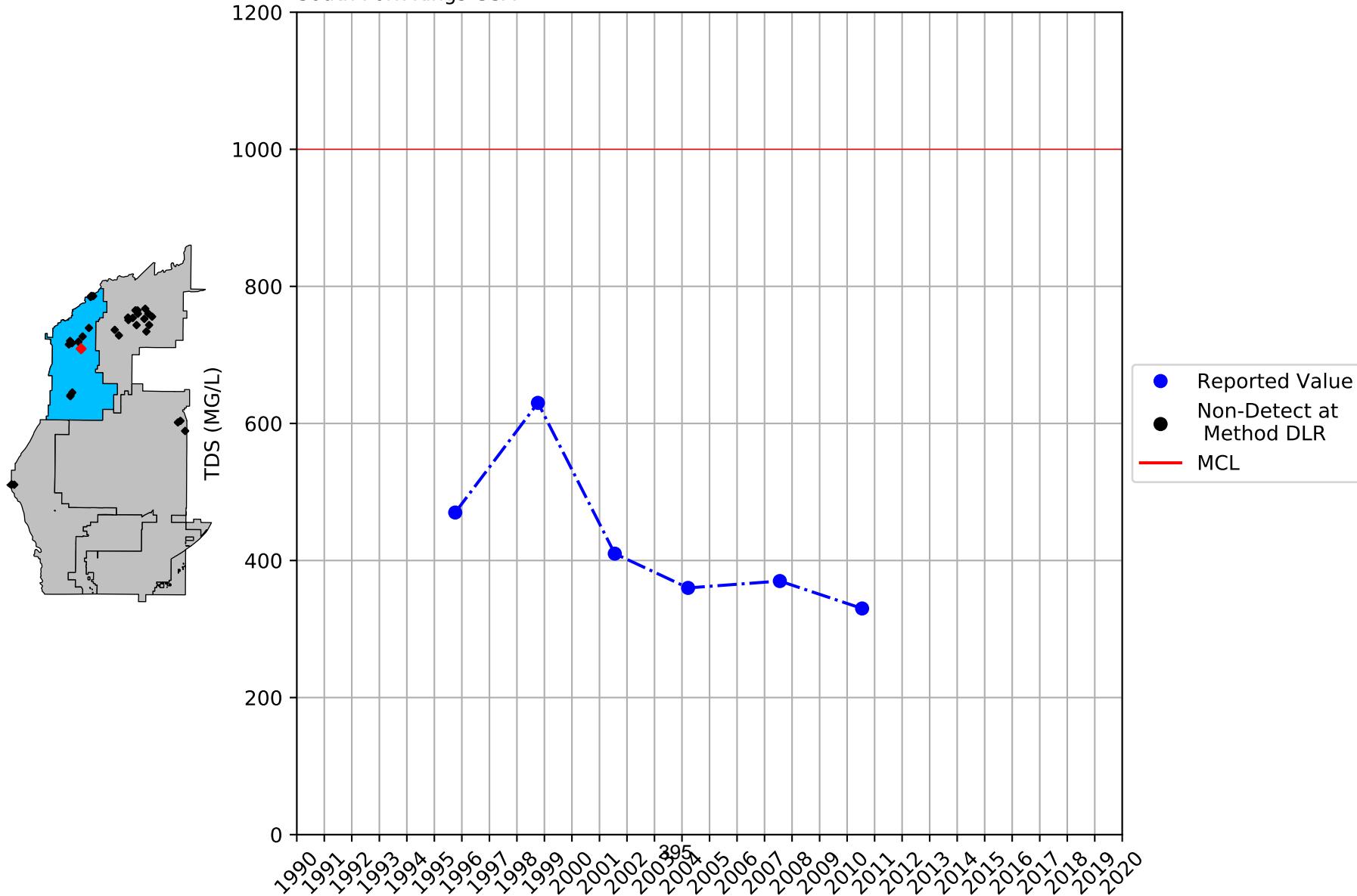
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South Fork Kings GSA



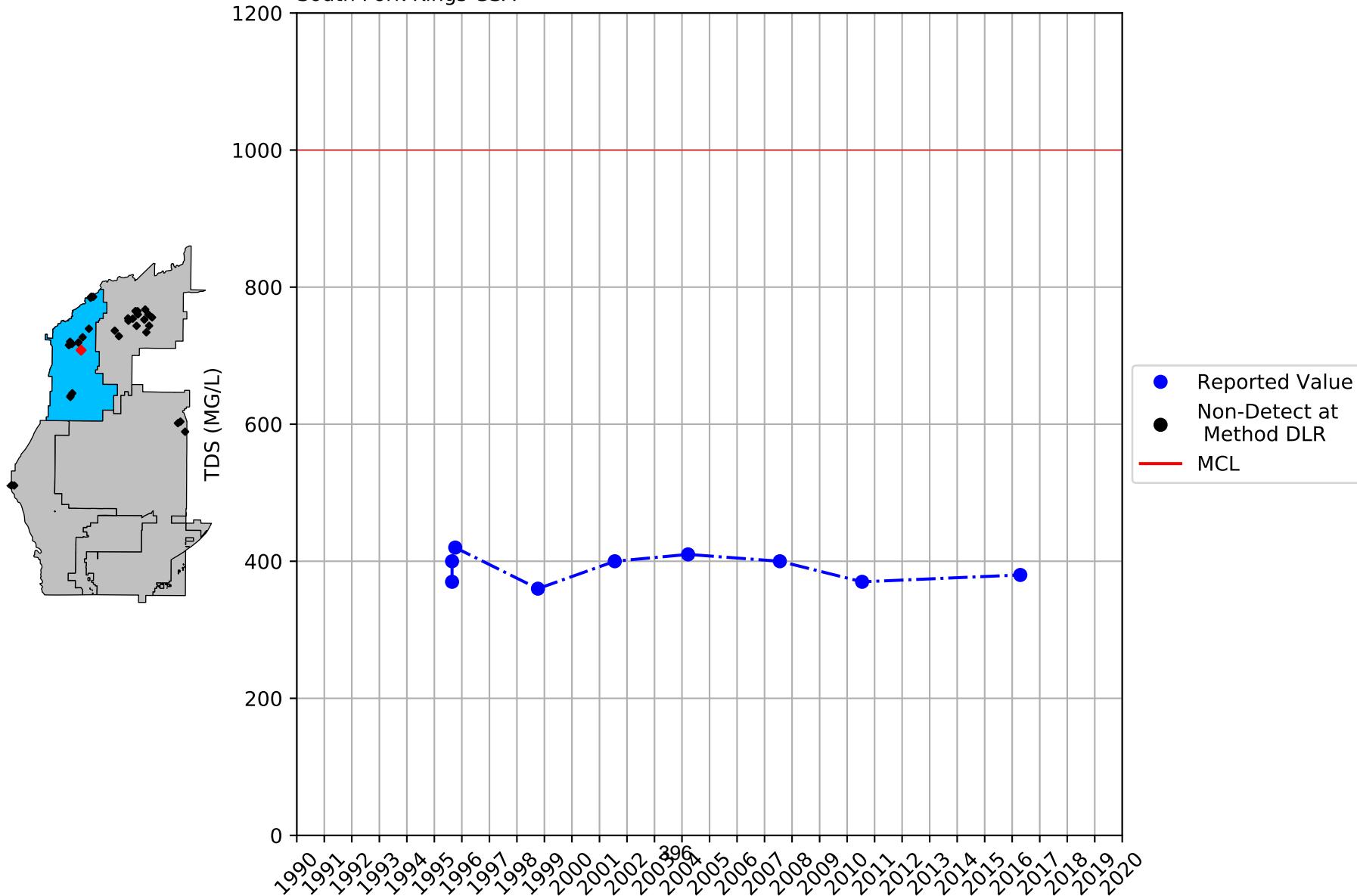
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South Fork Kings GSA



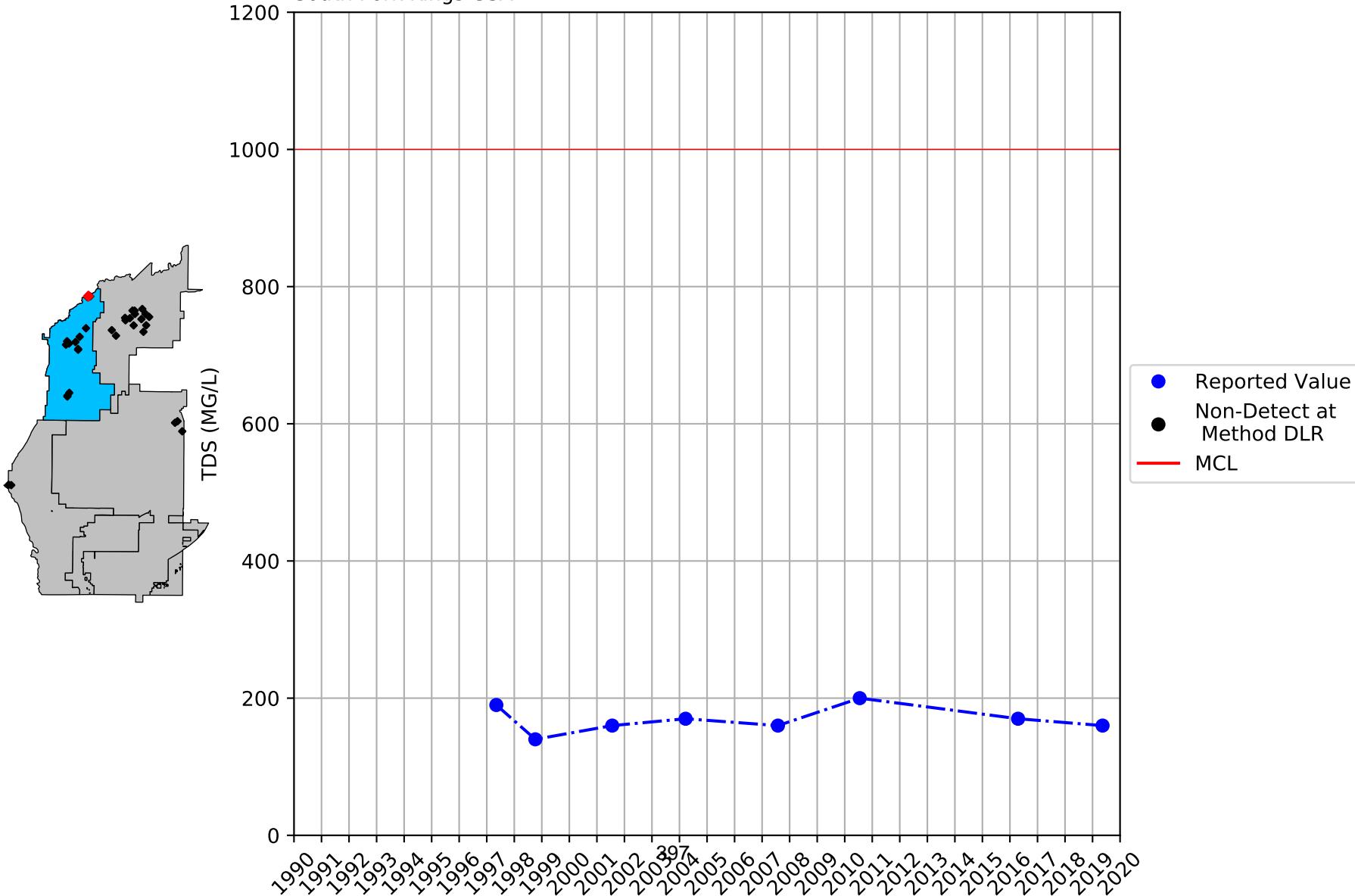
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South Fork Kings GSA



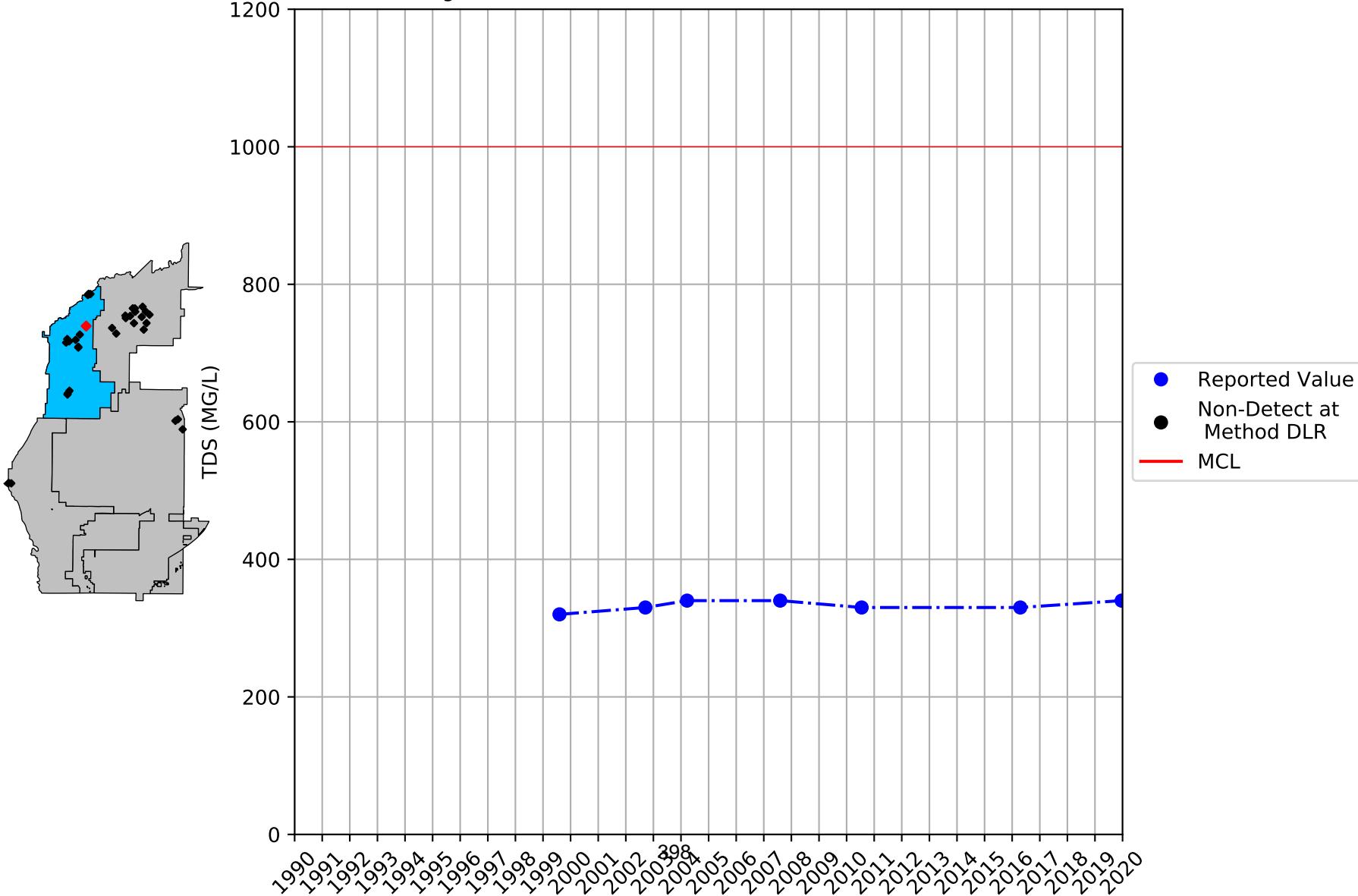
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South Fork Kings GSA



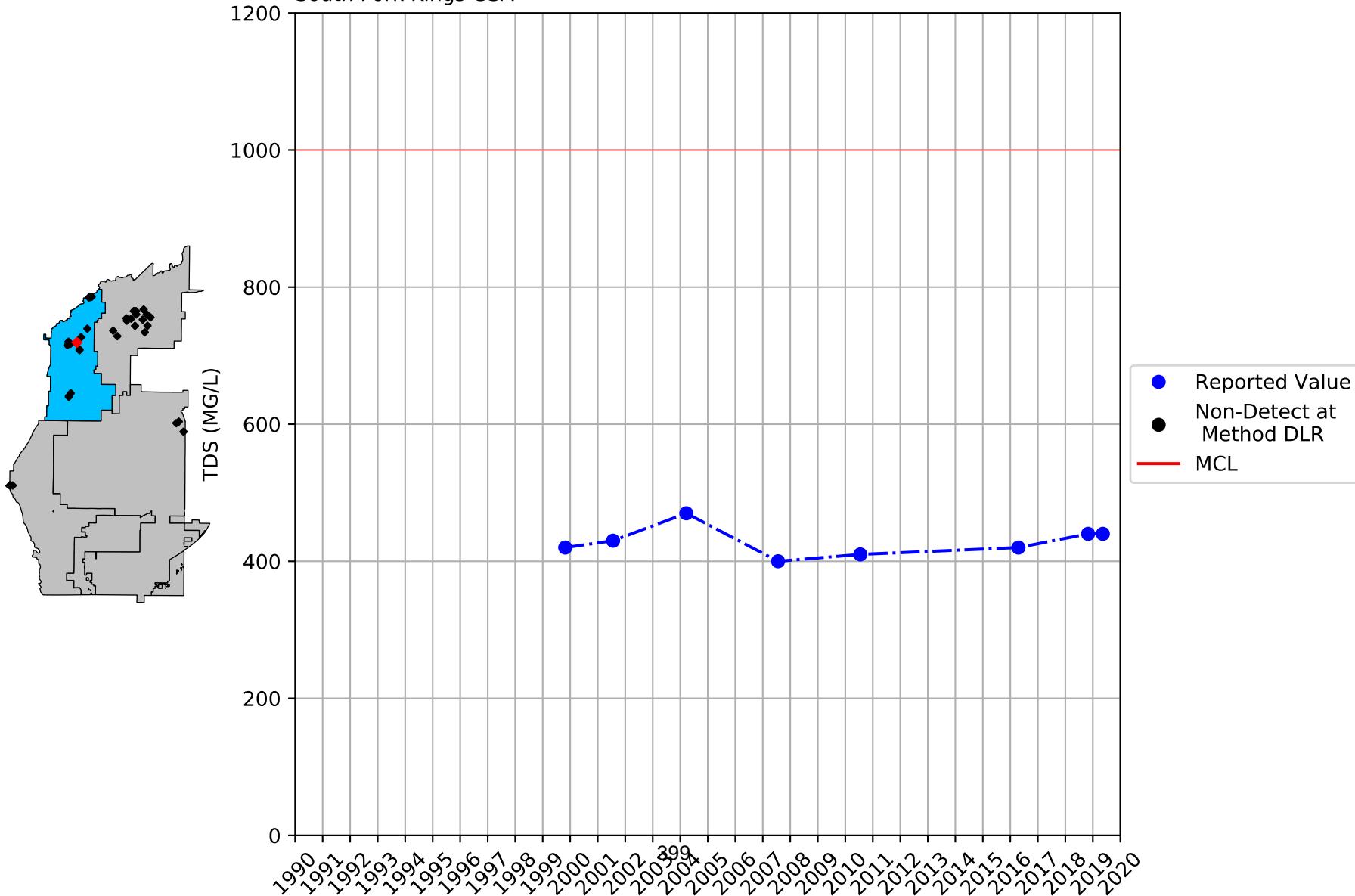
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South Fork Kings GSA



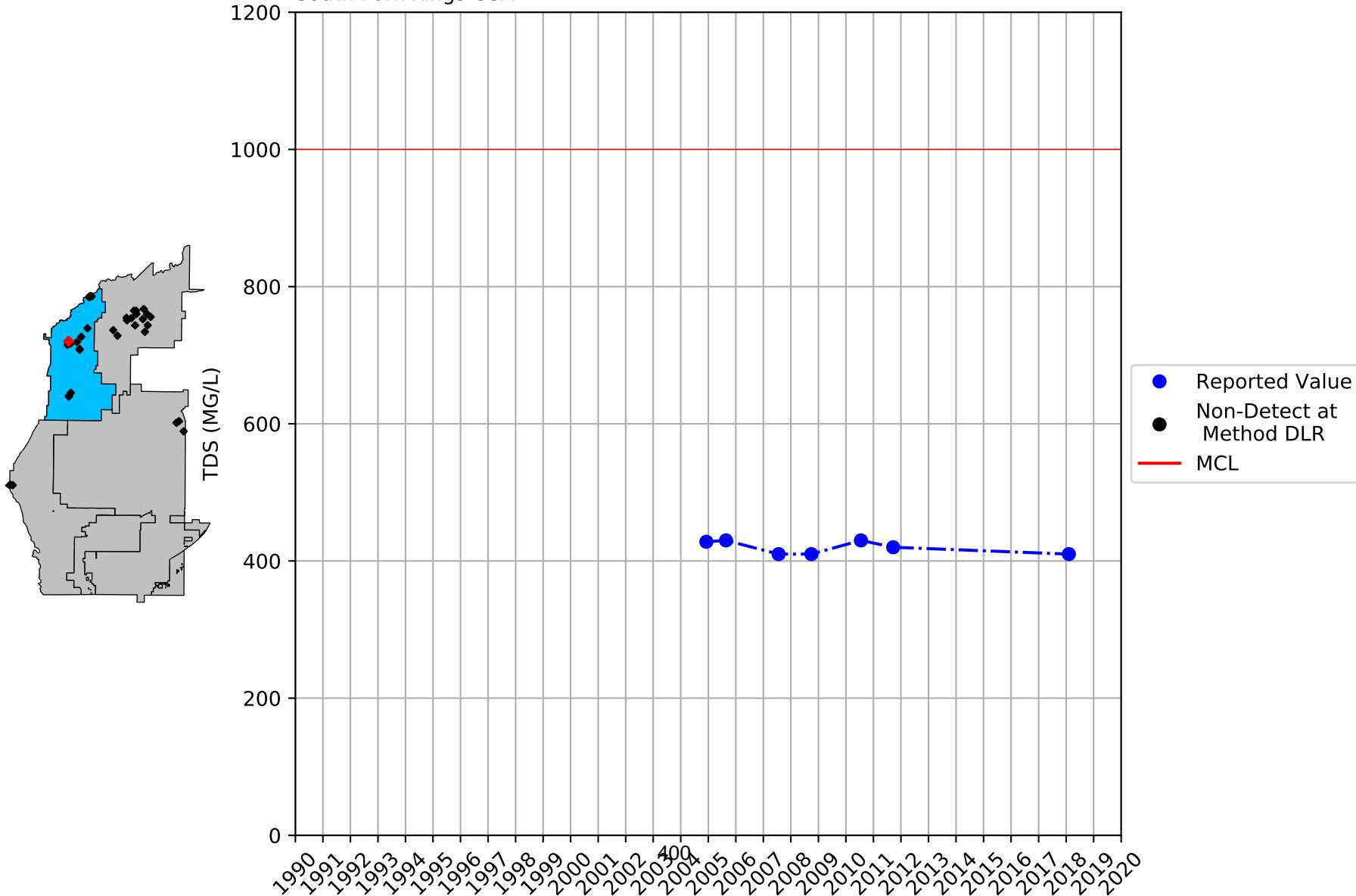
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South Fork Kings GSA



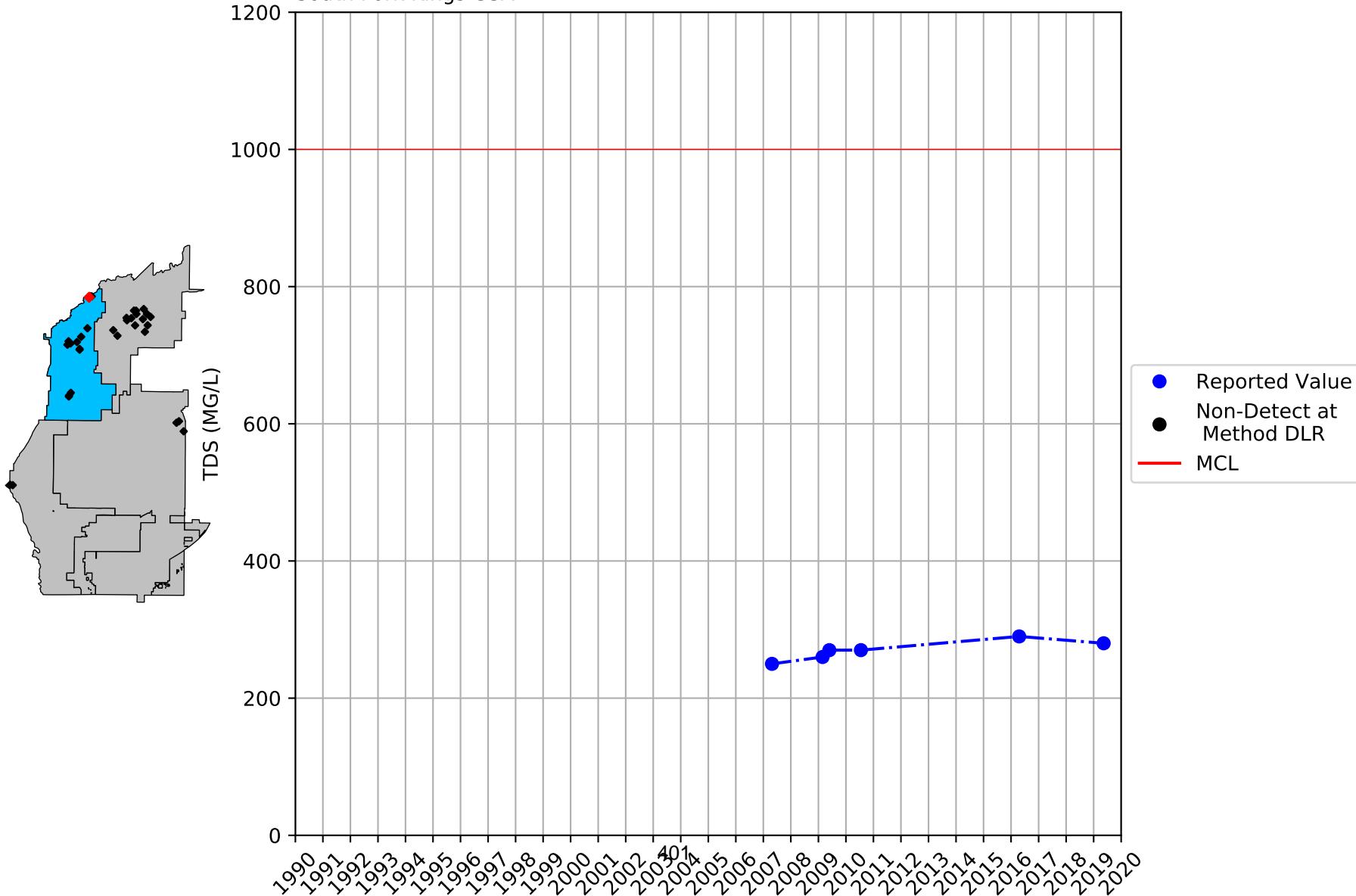
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South Fork Kings GSA



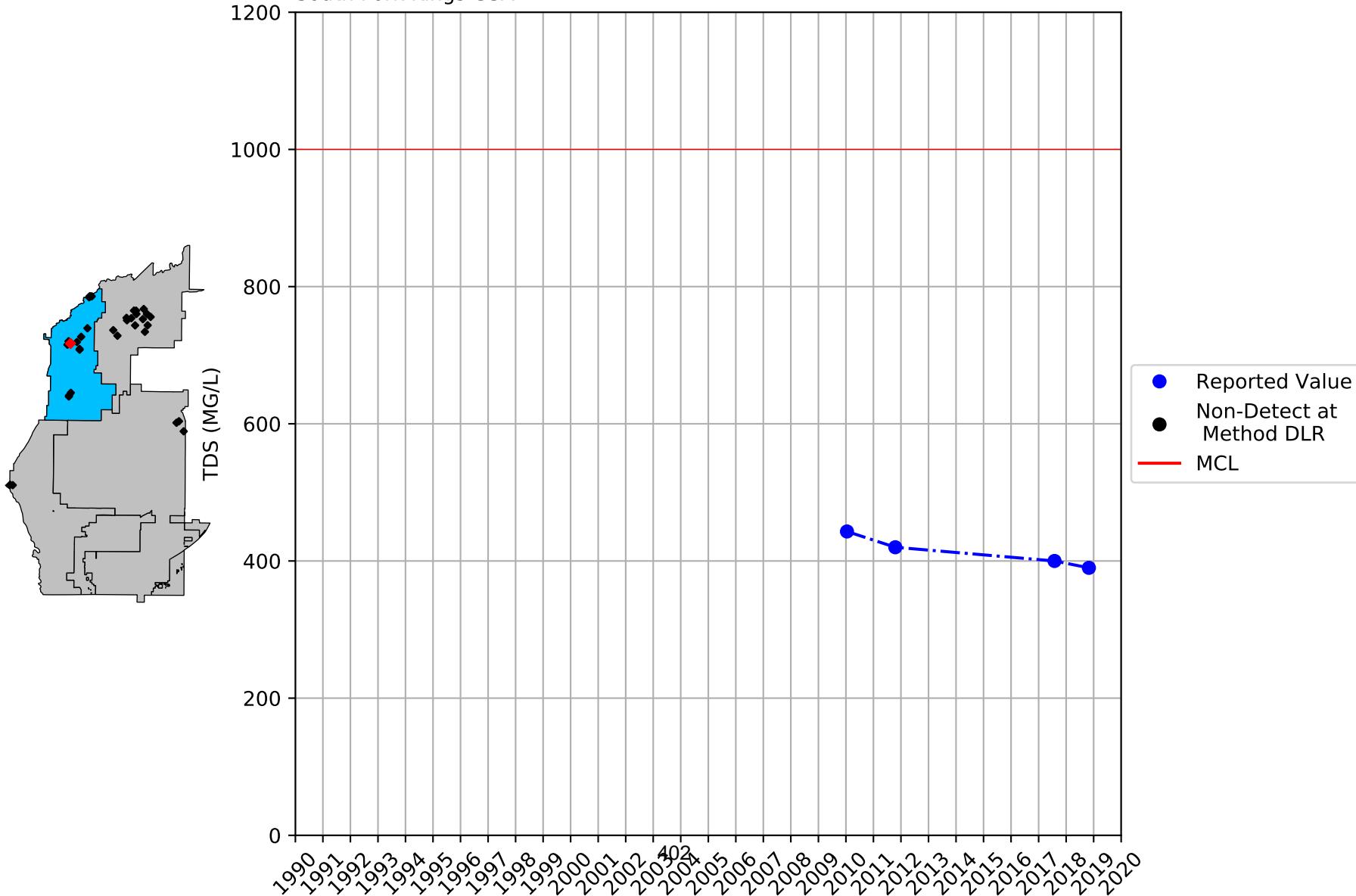
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South Fork Kings GSA



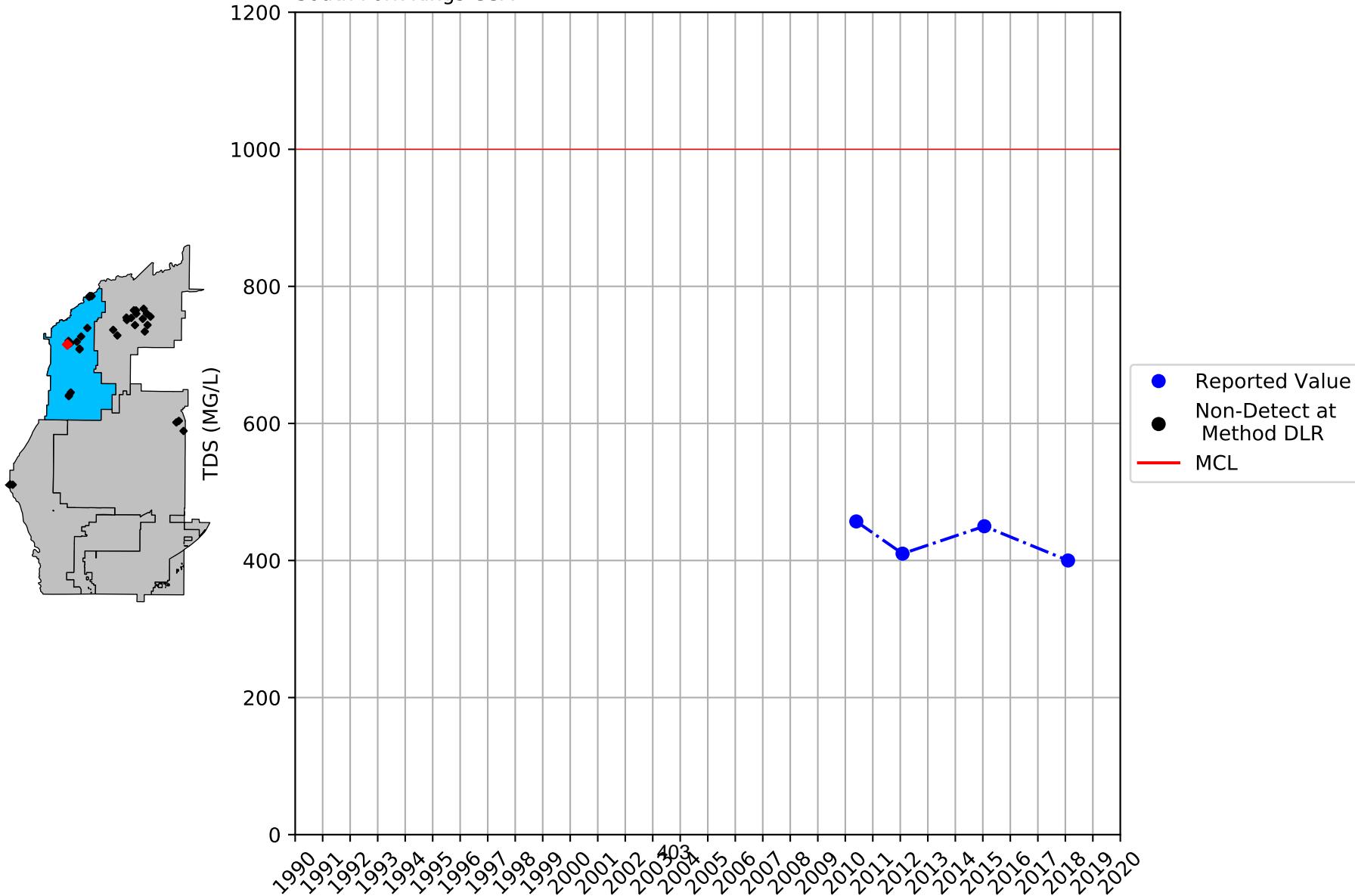
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South Fork Kings GSA



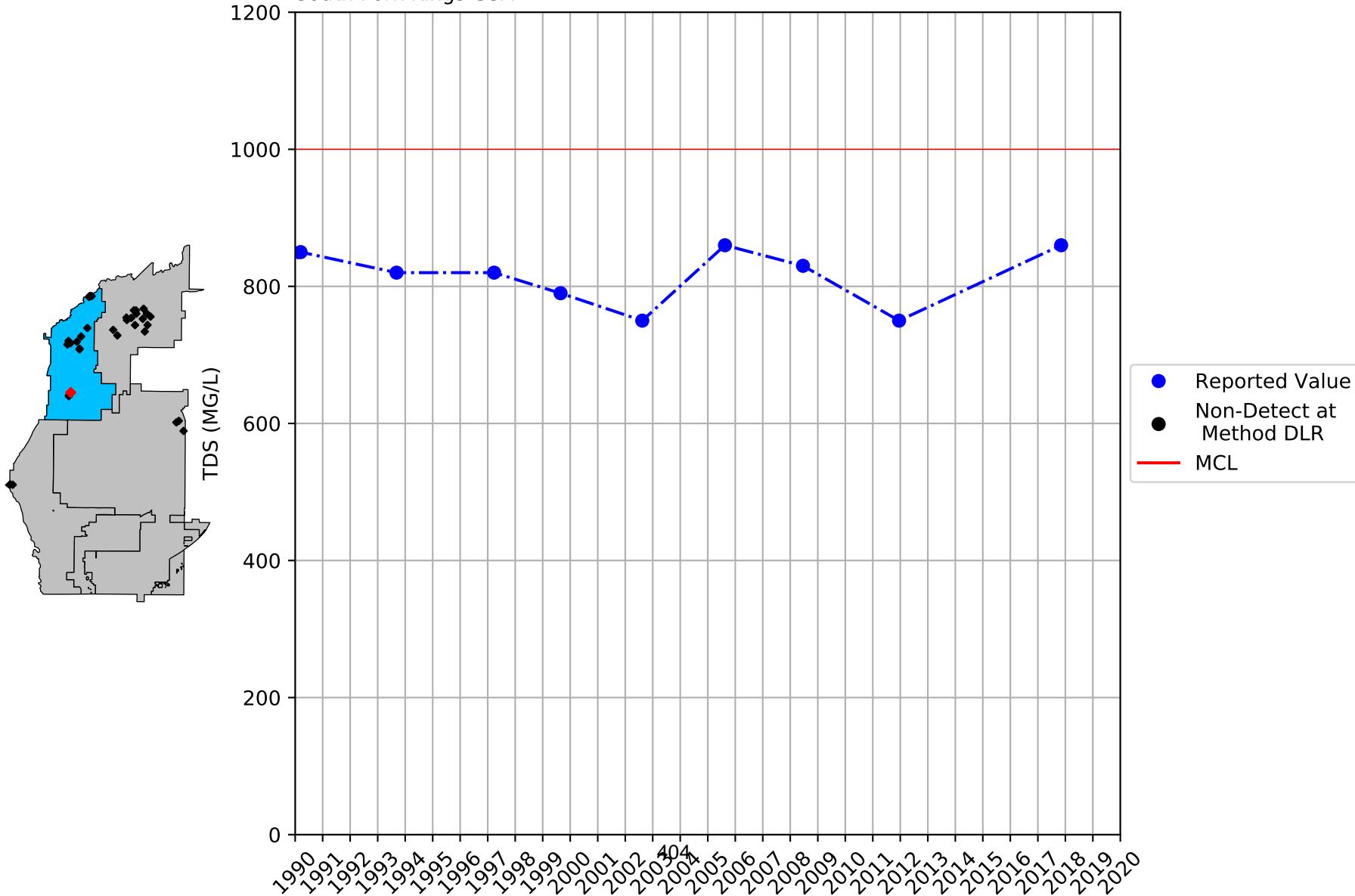
TOTAL DISSOLVED SOLIDS
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South Fork Kings GSA



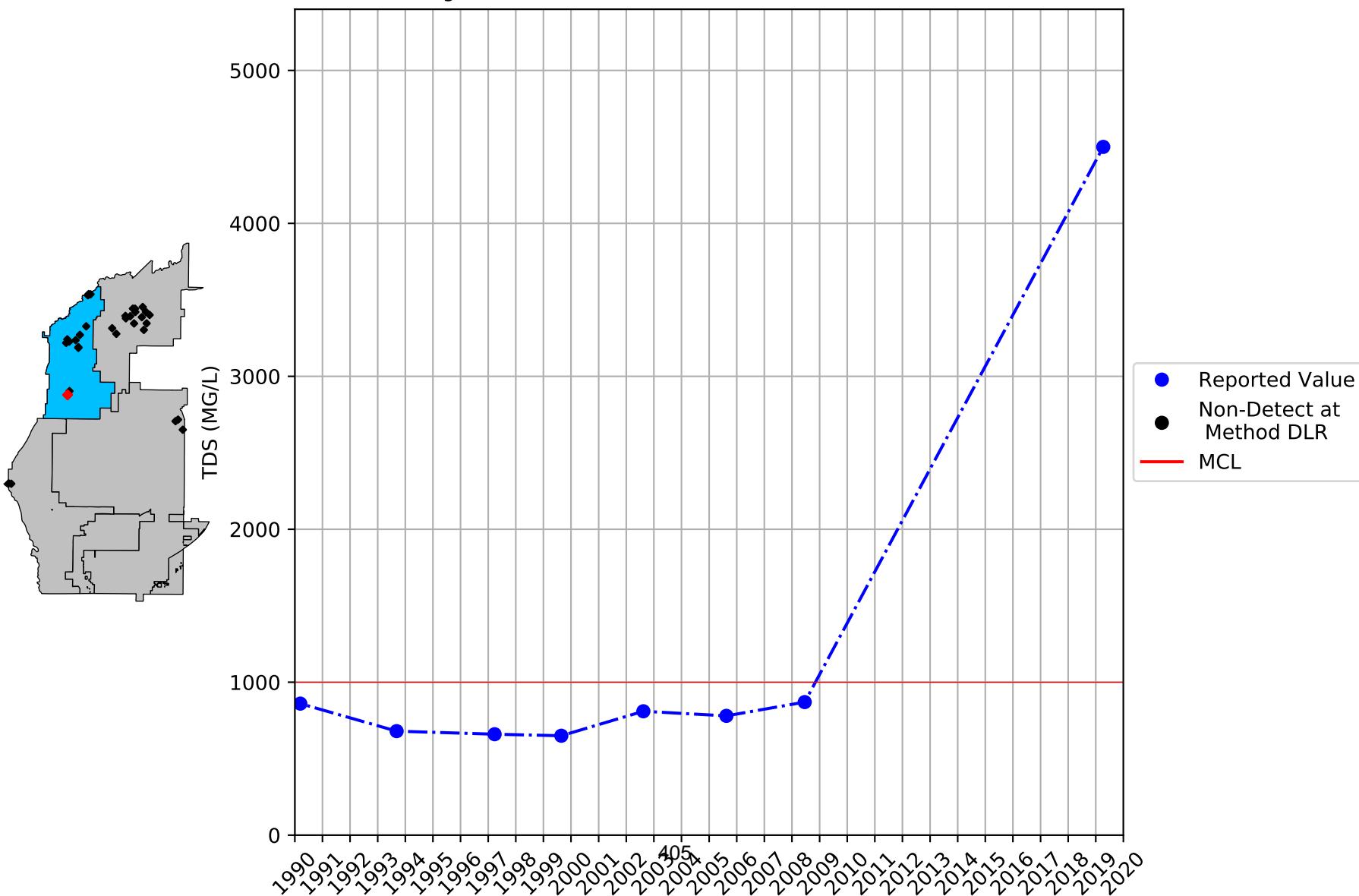
TOTAL DISSOLVED SOLIDS
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South Fork Kings GSA



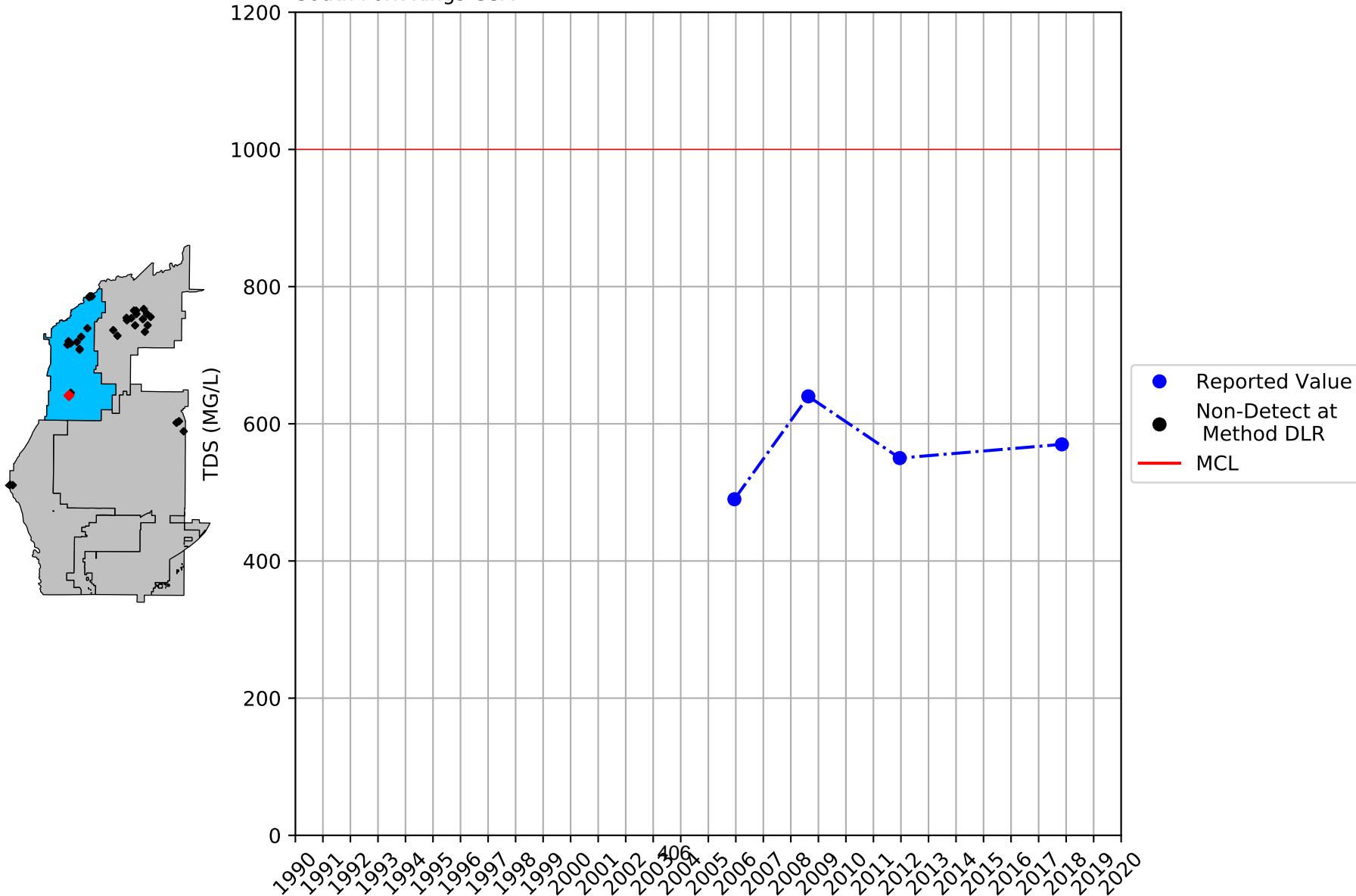
TOTAL DISSOLVED SOLIDS
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South Fork Kings GSA



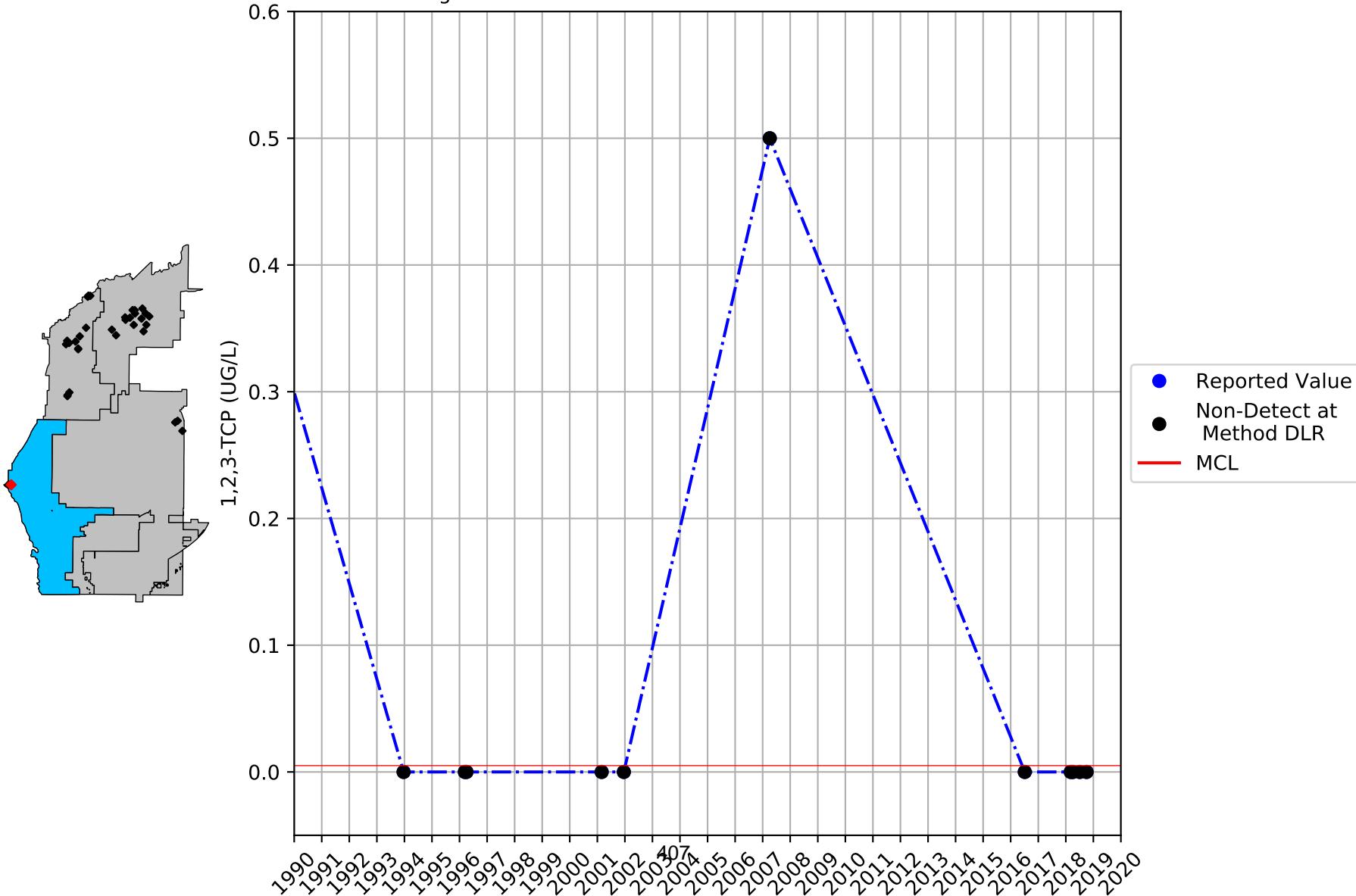
TOTAL DISSOLVED SOLIDS
1610006-002 WELL 06 - RAW (COLPSD06)REHB 08 ACTIVE
South Fork Kings GSA



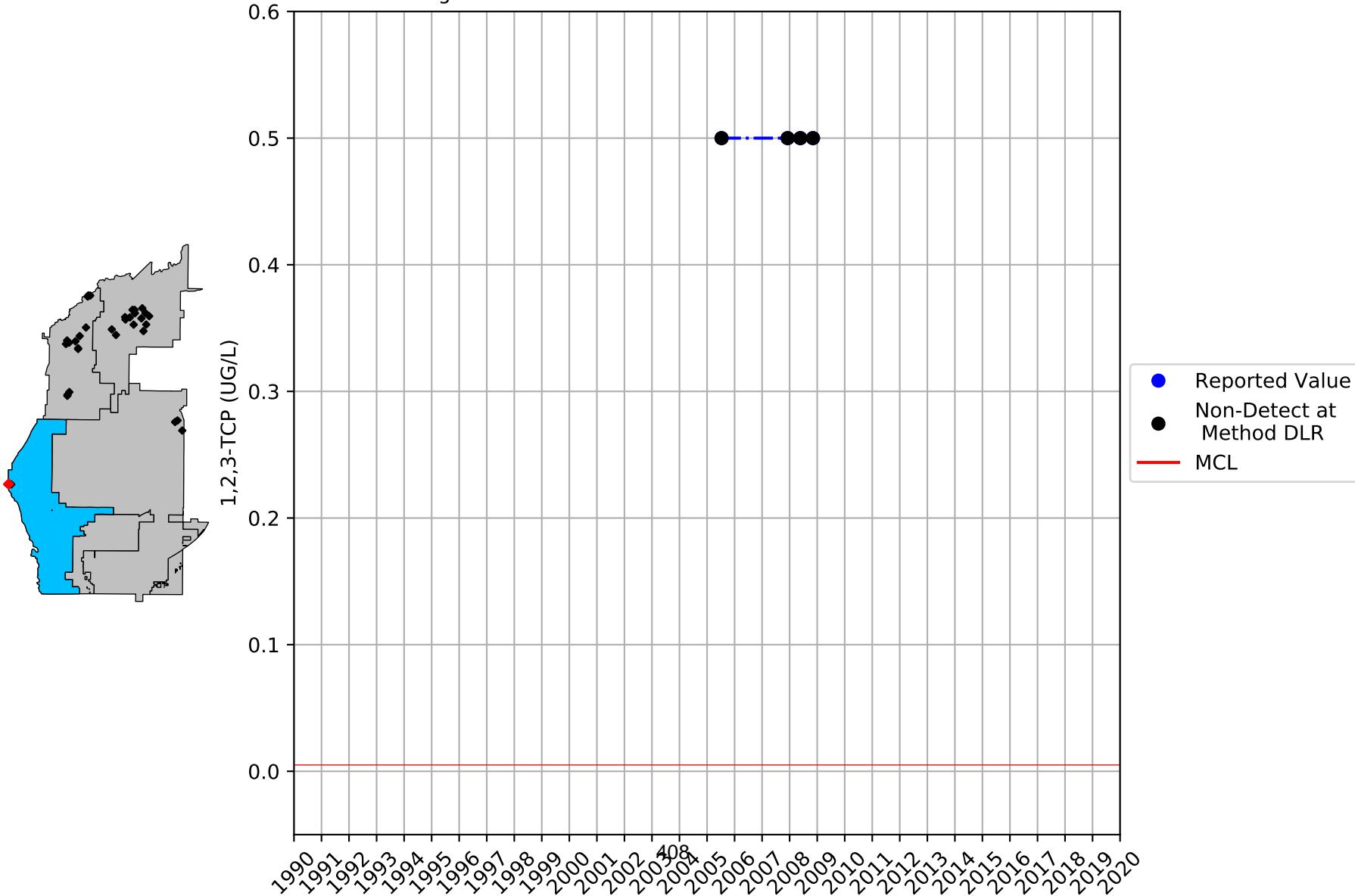
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South Fork Kings GSA



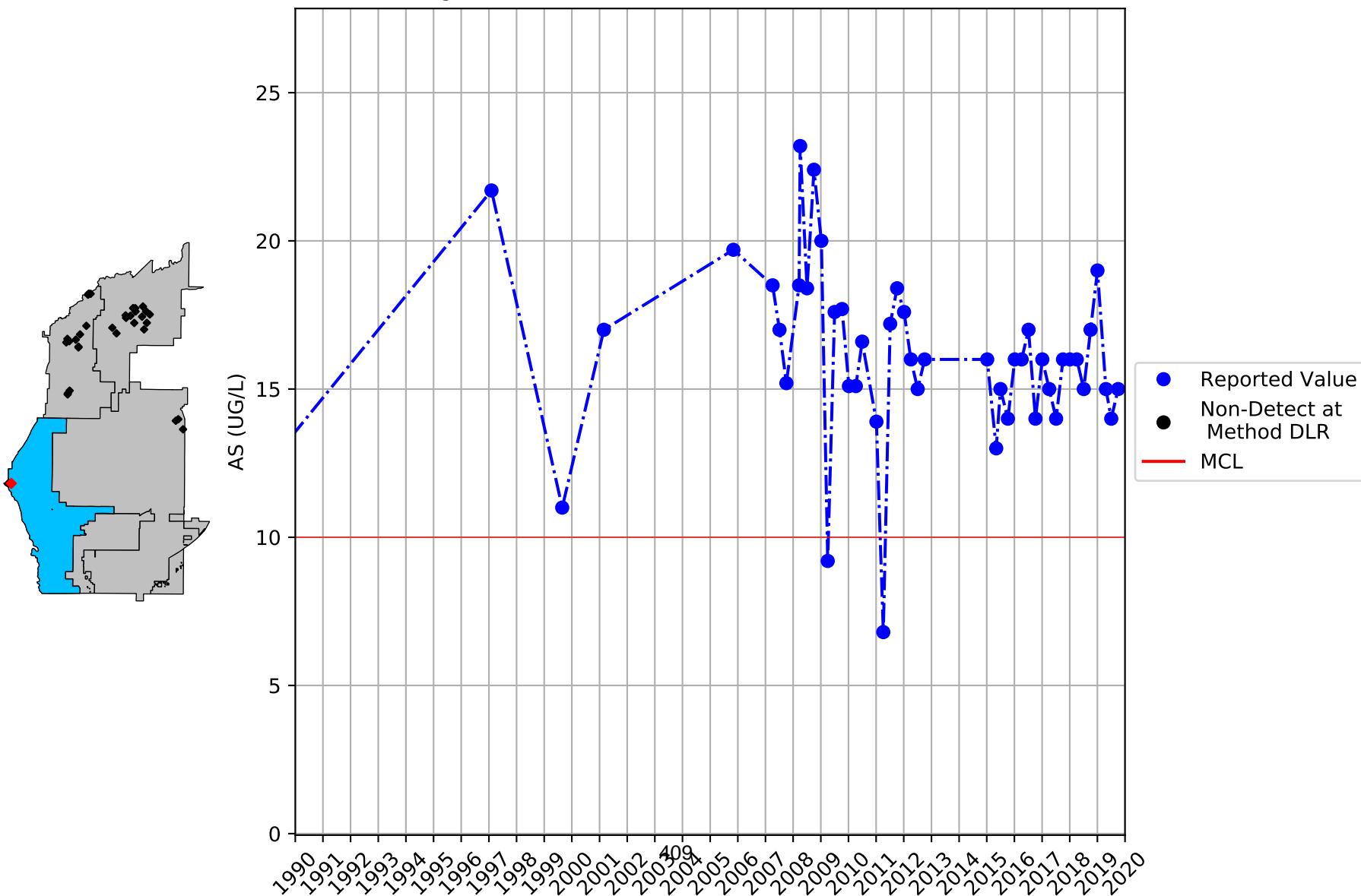
1,2,3-TRICHLOROPROPANE
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



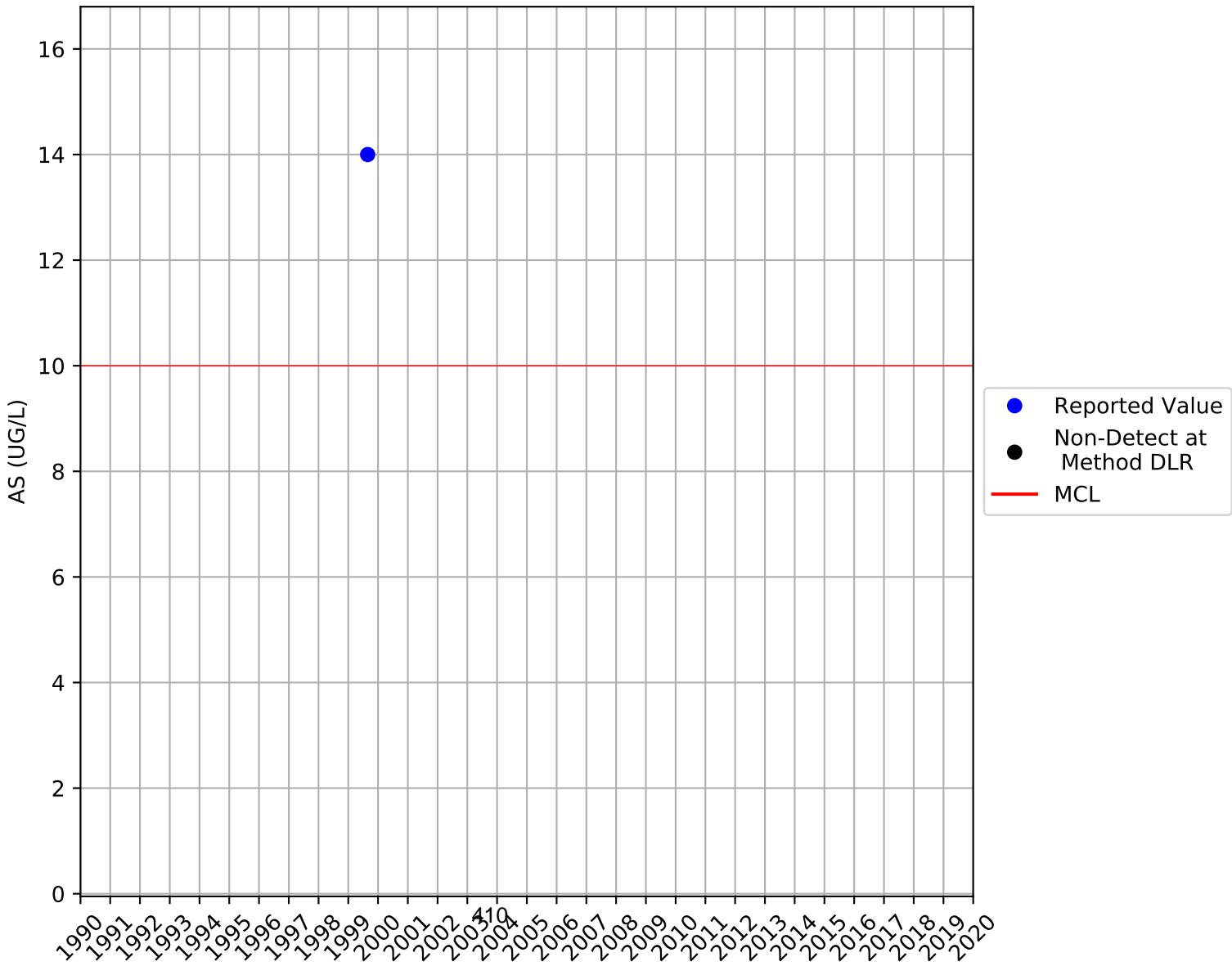
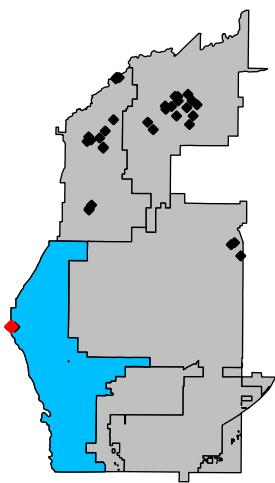
1,2,3-TRICHLOROPROPANE
1610009-004 WELL 02A (MAUD) - TRT BENZ & CL2
Southwest Kings GSA



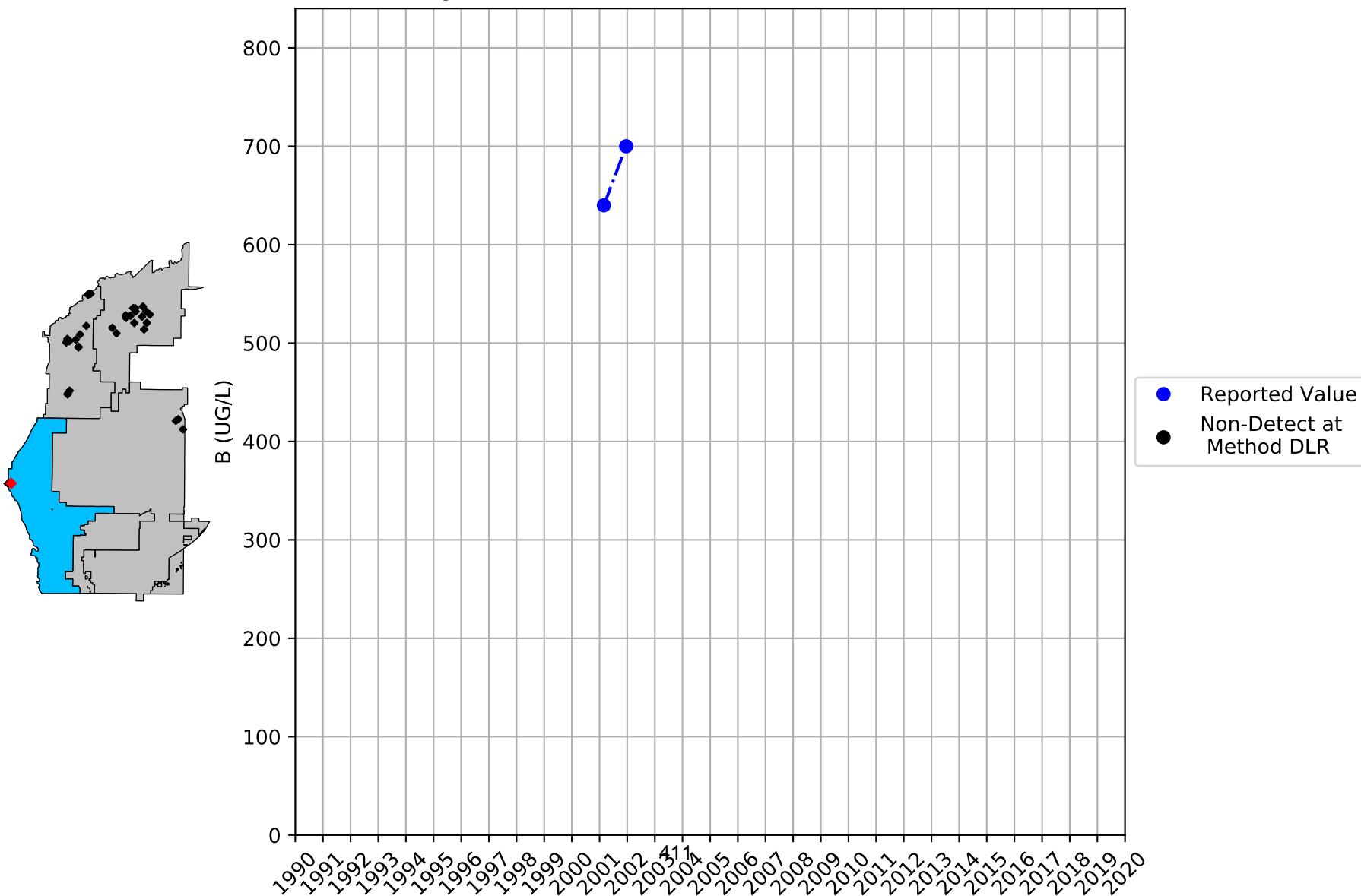
ARSENIC
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



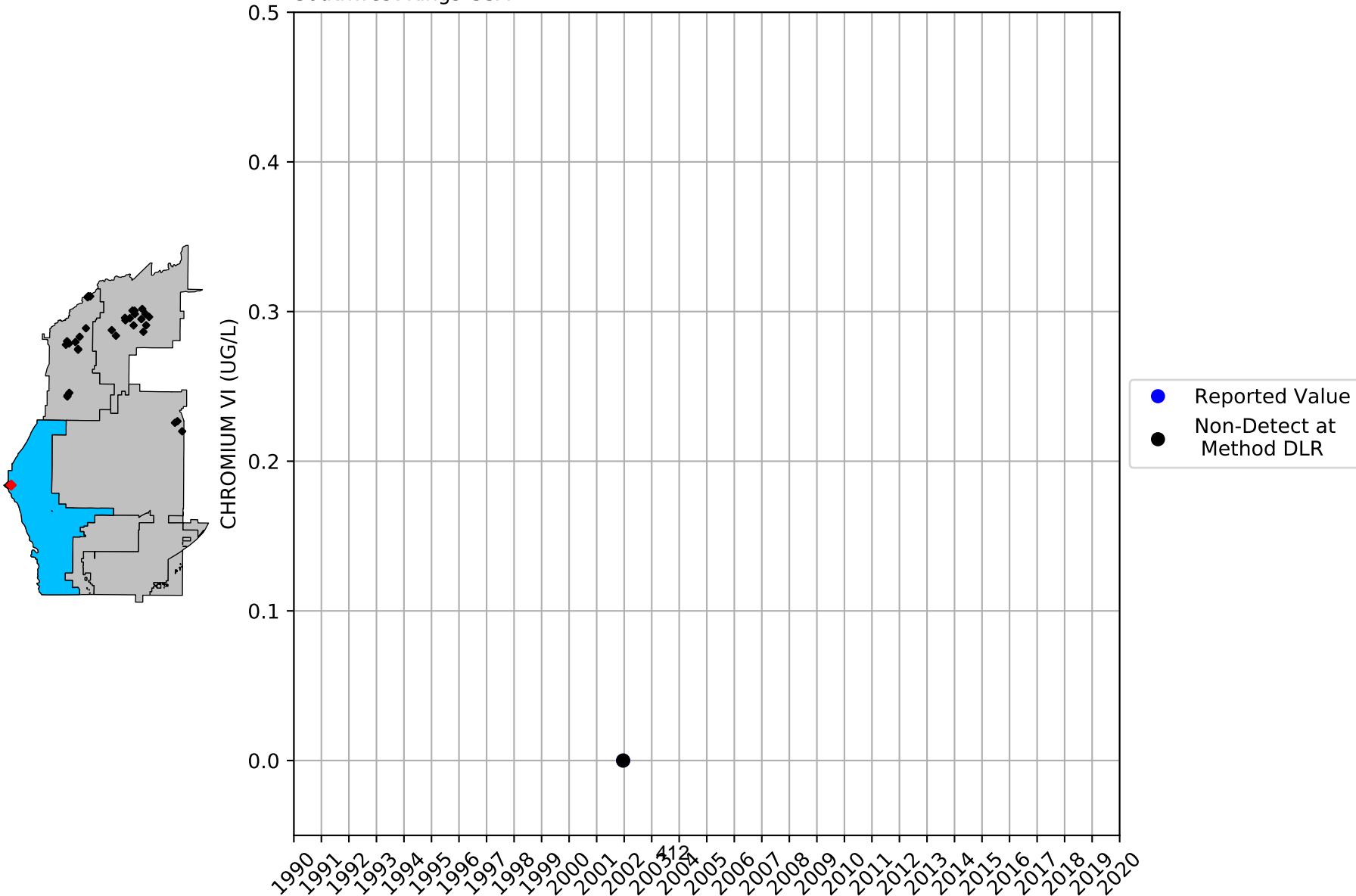
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1610009-004 WELL 02A (MAUD) - TRT BENZ & CL2
Southwest Kings GSA



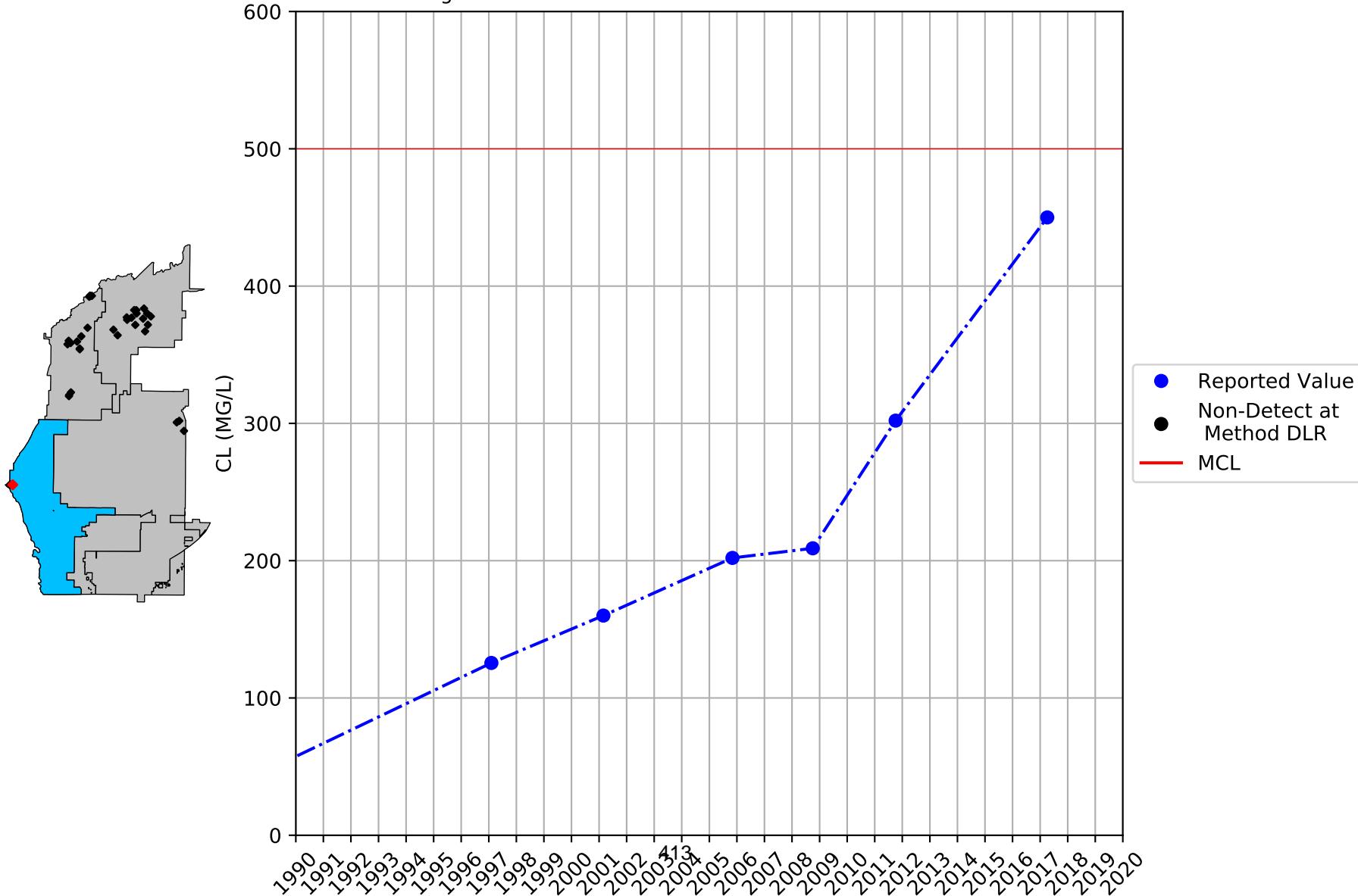
BORON
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



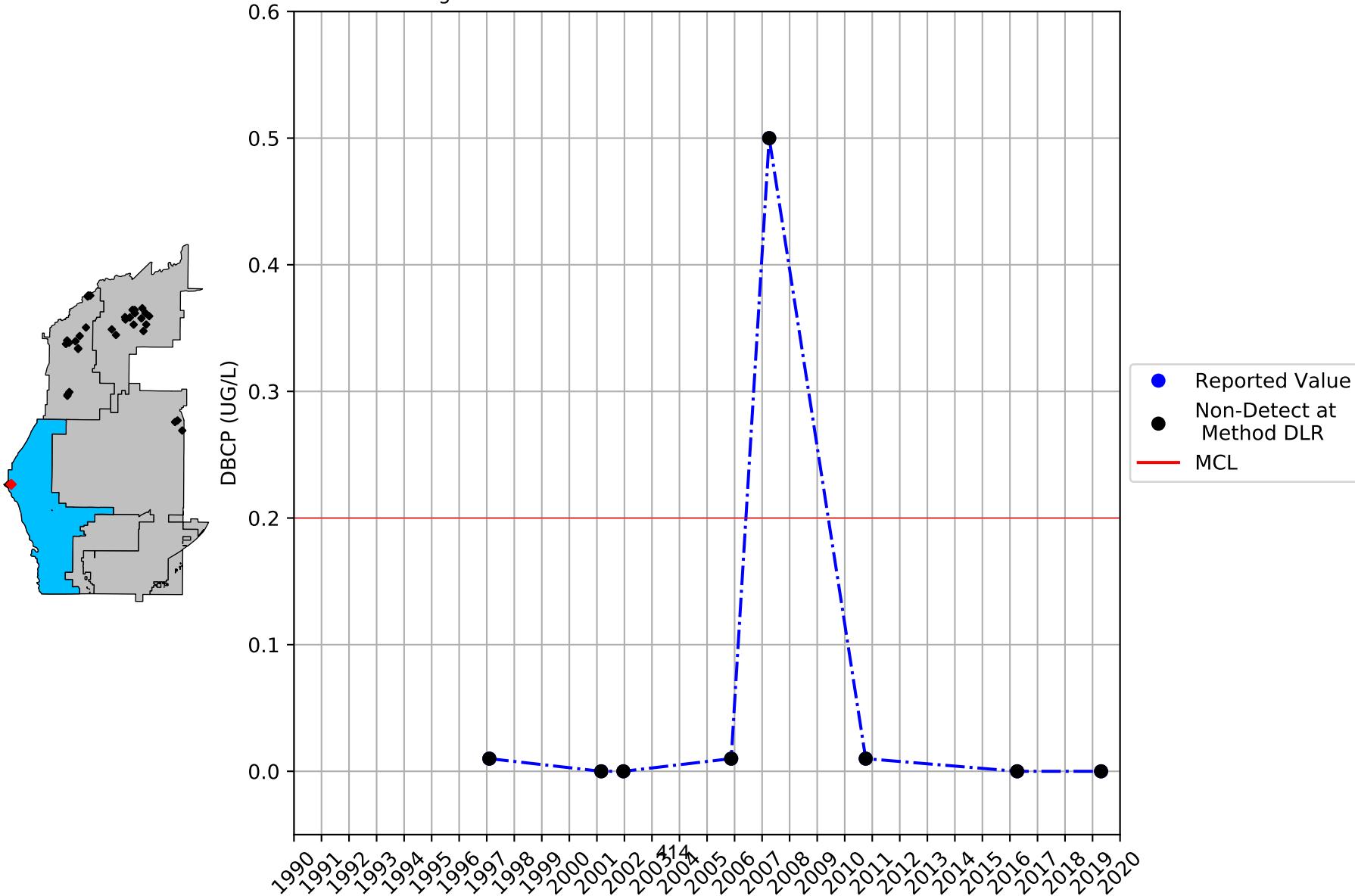
CHROMIUM, HEXAVALENT
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



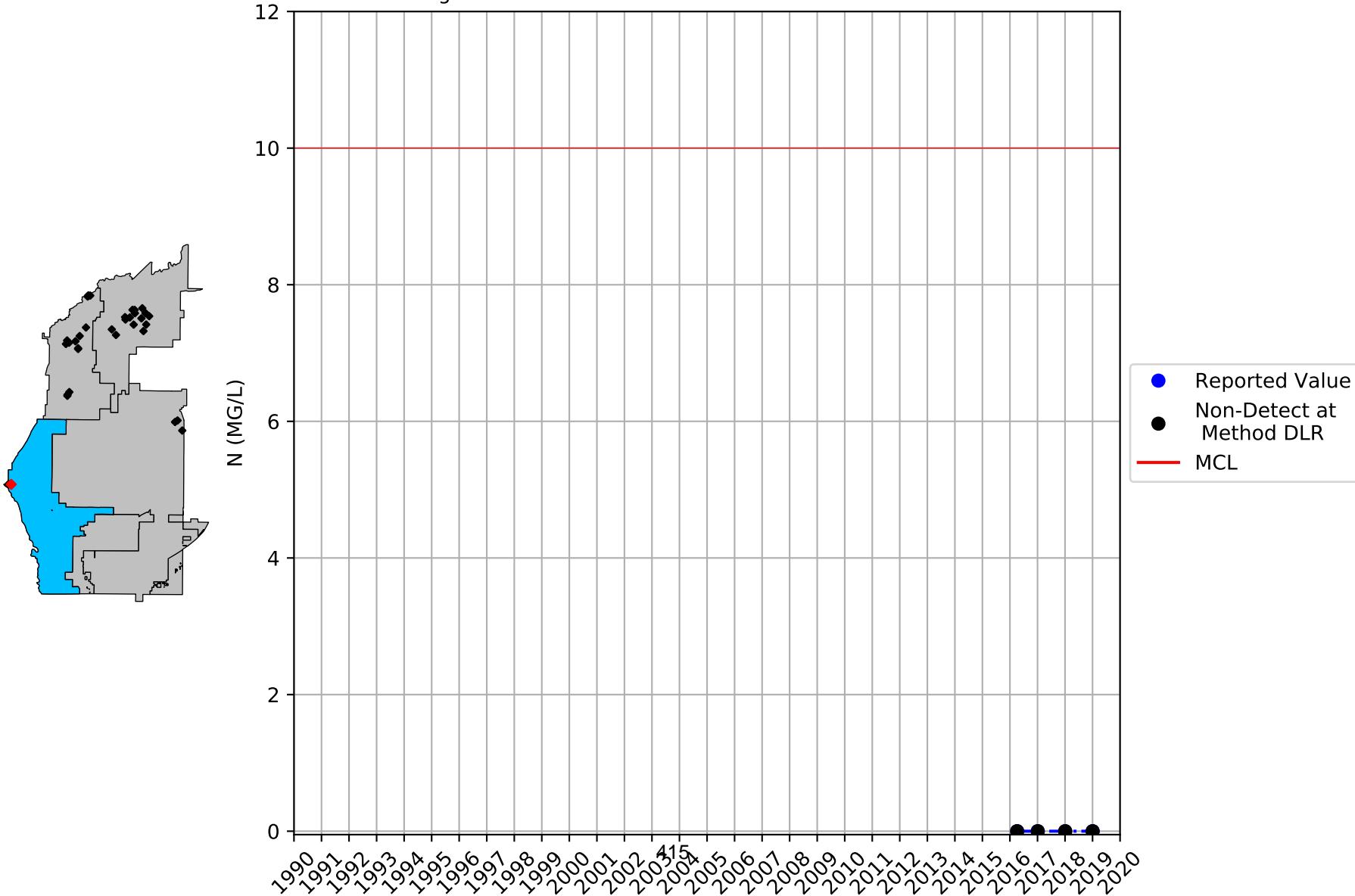
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Southwest Kings GSA



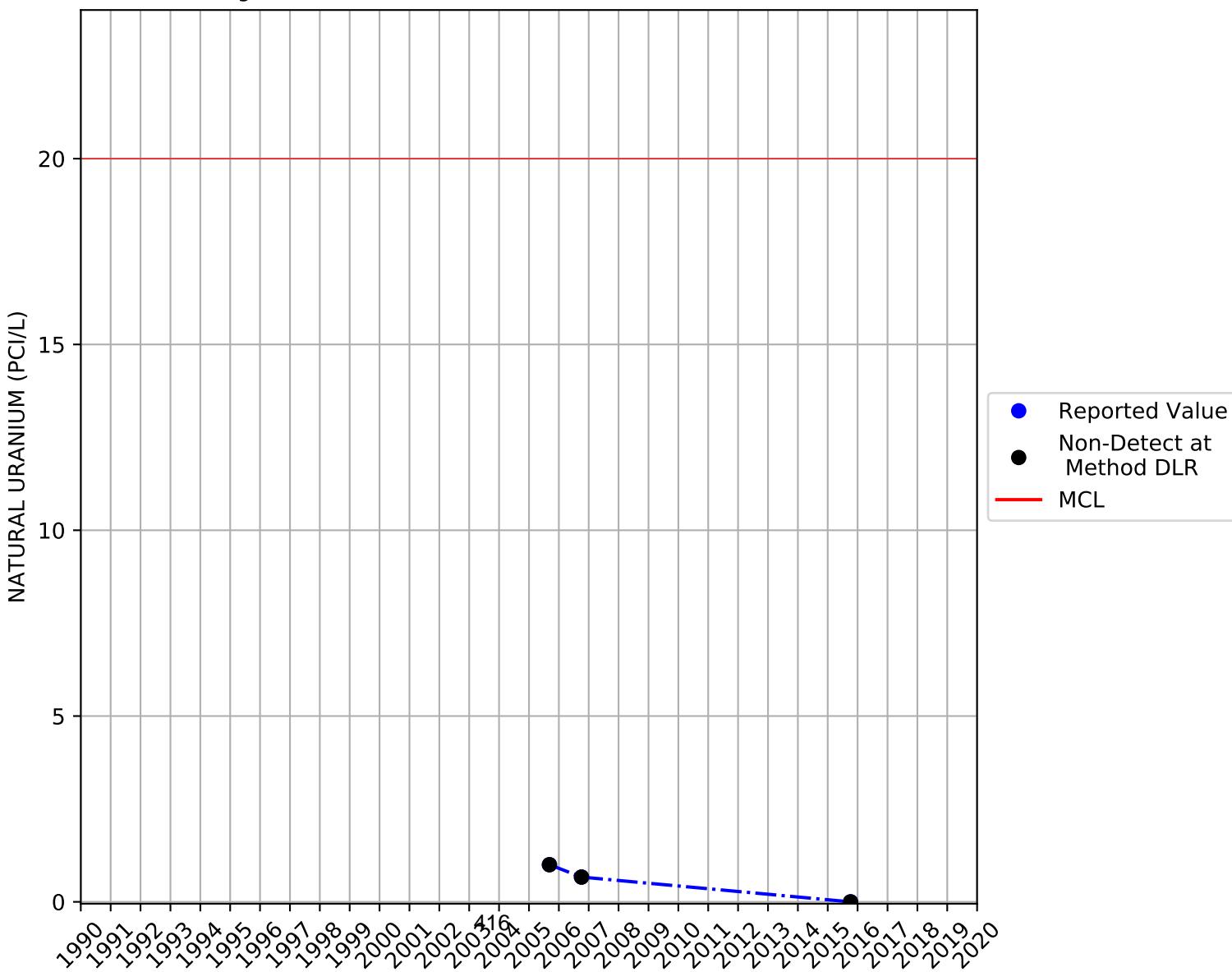
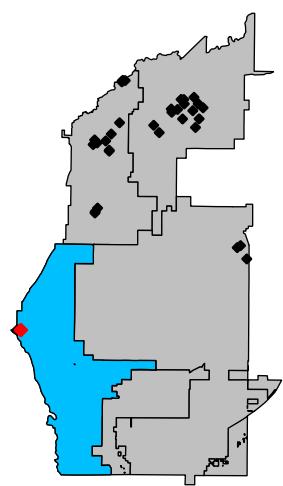
DIBROMOCHLOROPROPANE (DBCP)
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



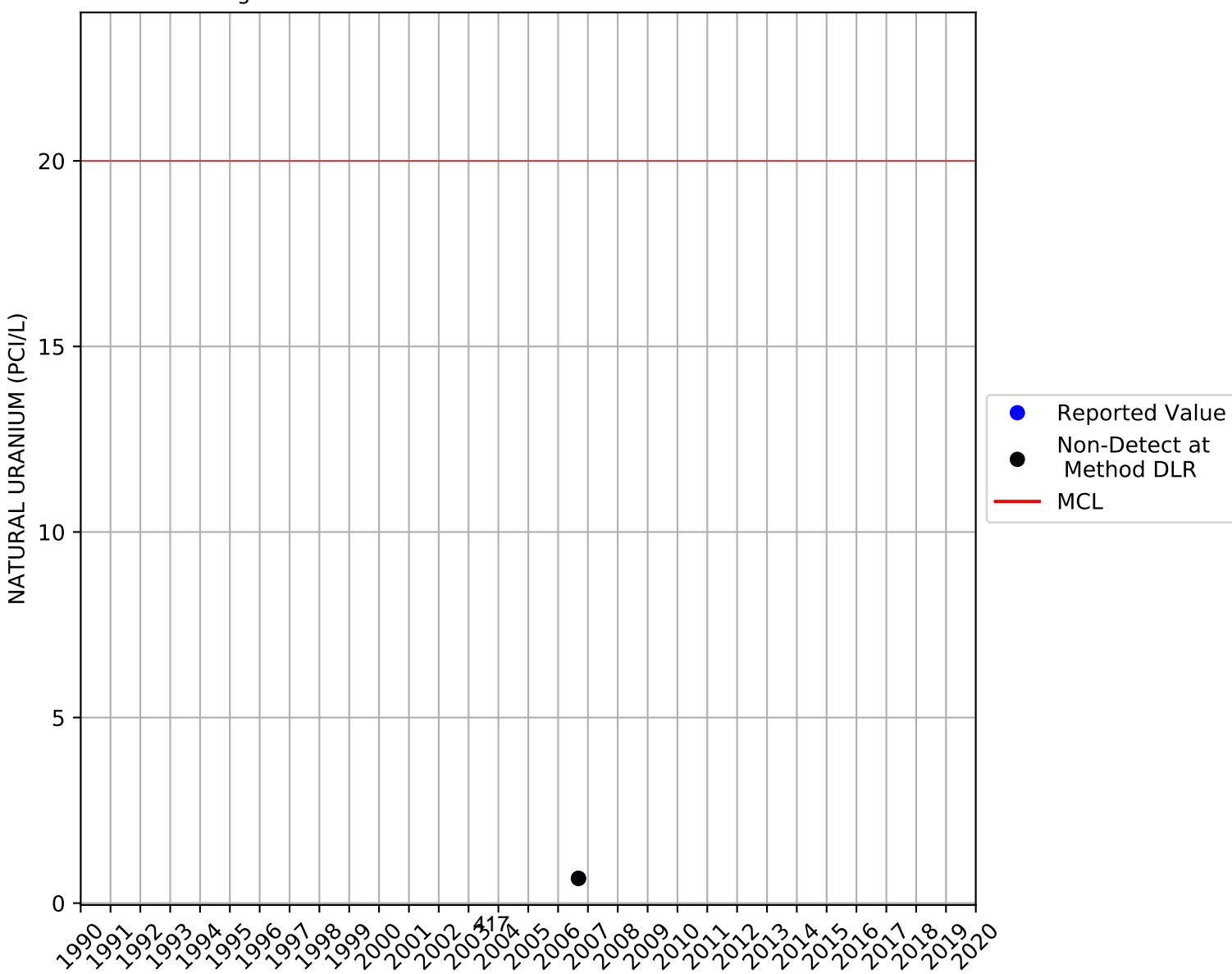
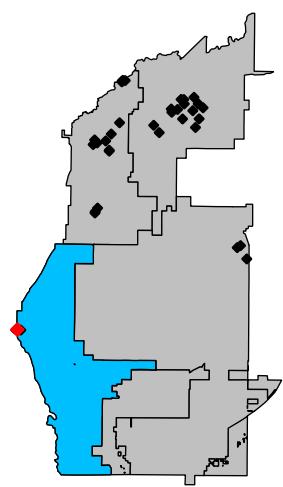
NITRATE (AS N)
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Southwest Kings GSA



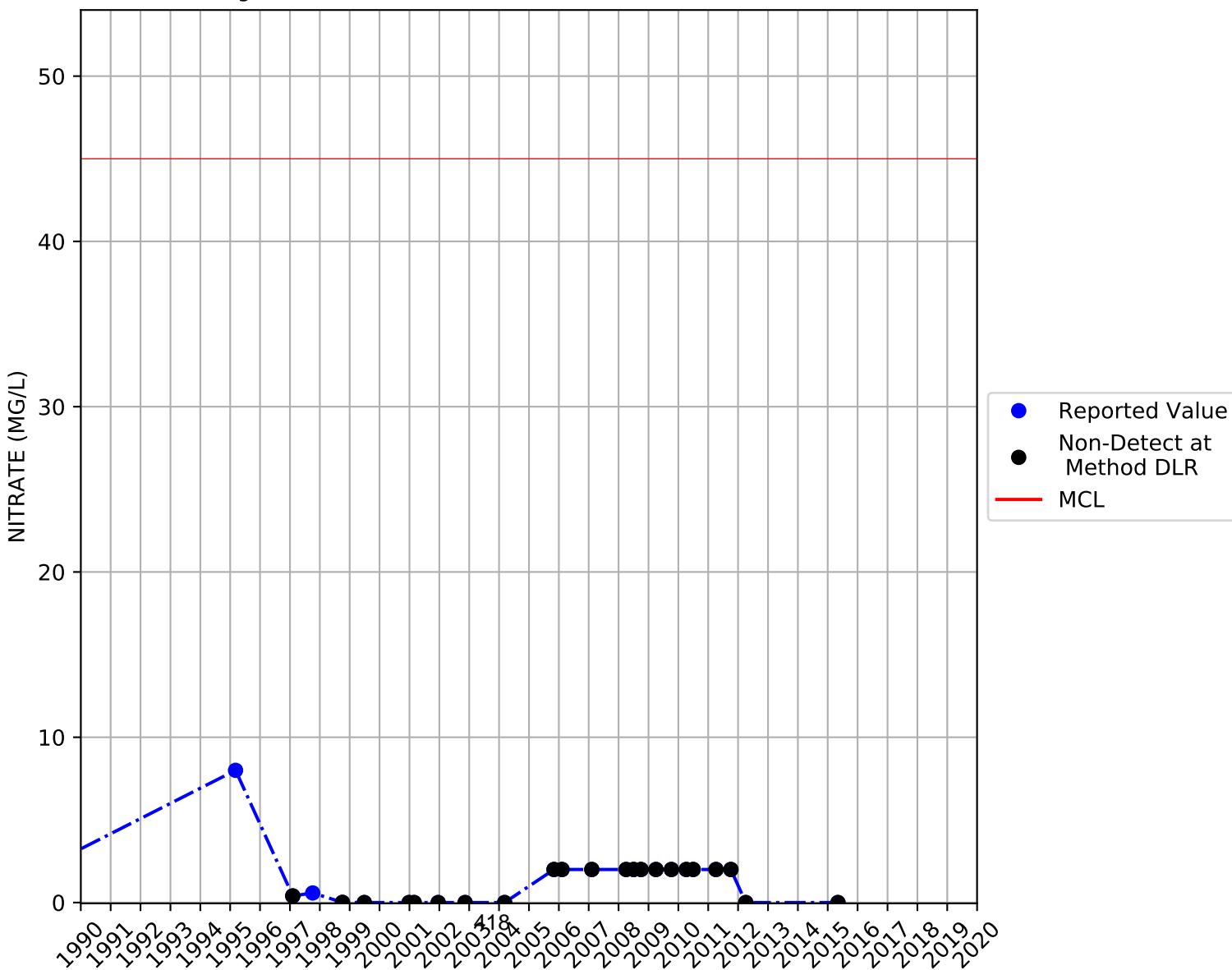
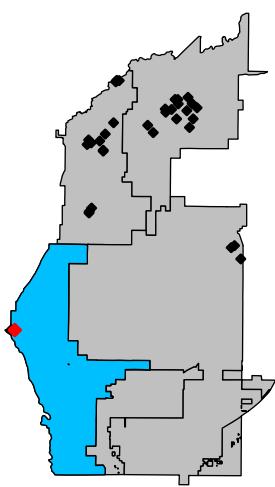
URANIUM (PCI/L)
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



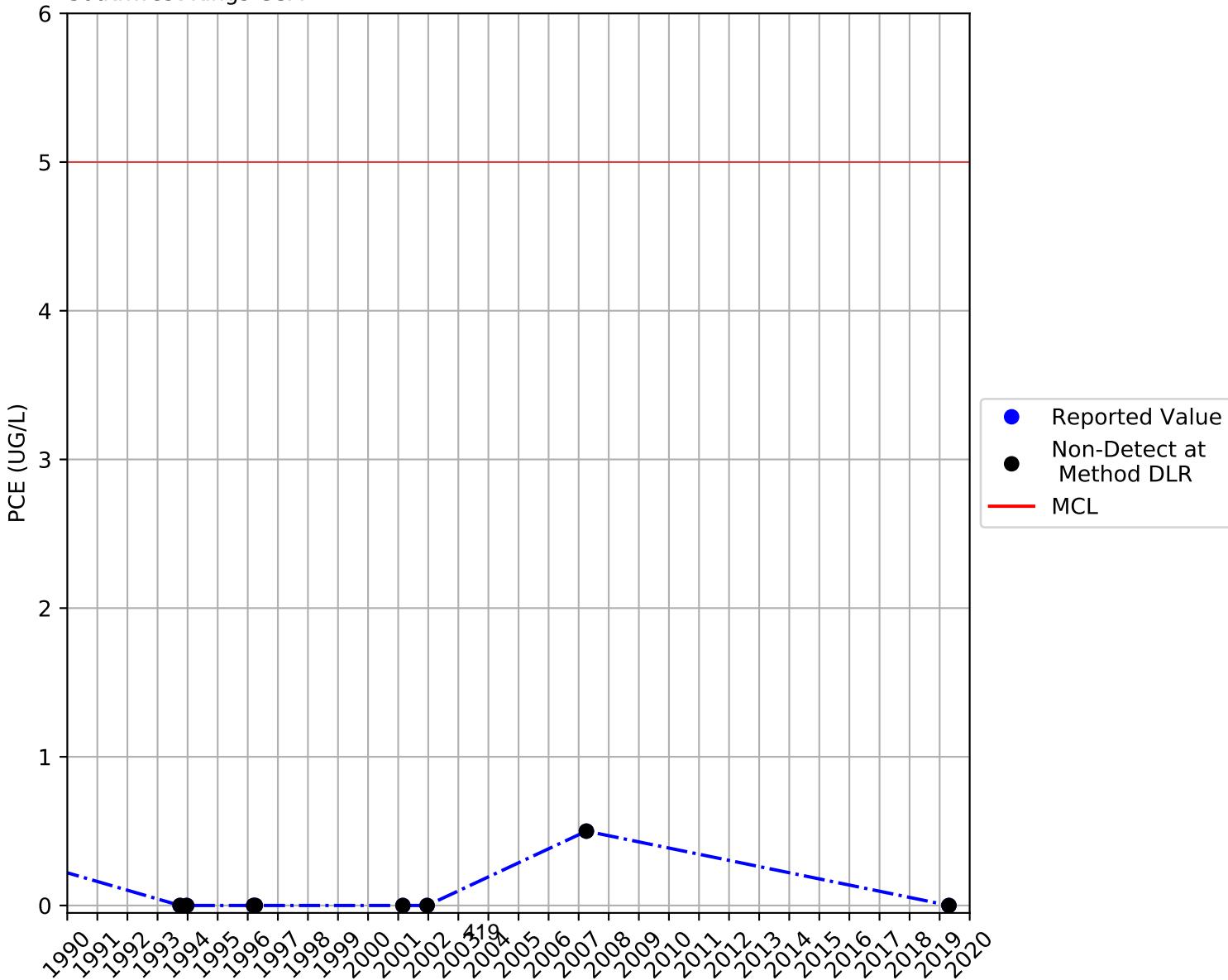
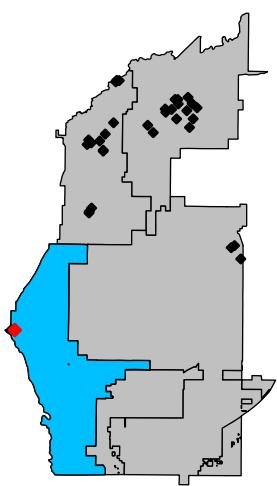
URANIUM (PCI/L)
1610009-004 WELL 02A (MAUD) - TRT BENZ & CL2
Southwest Kings GSA



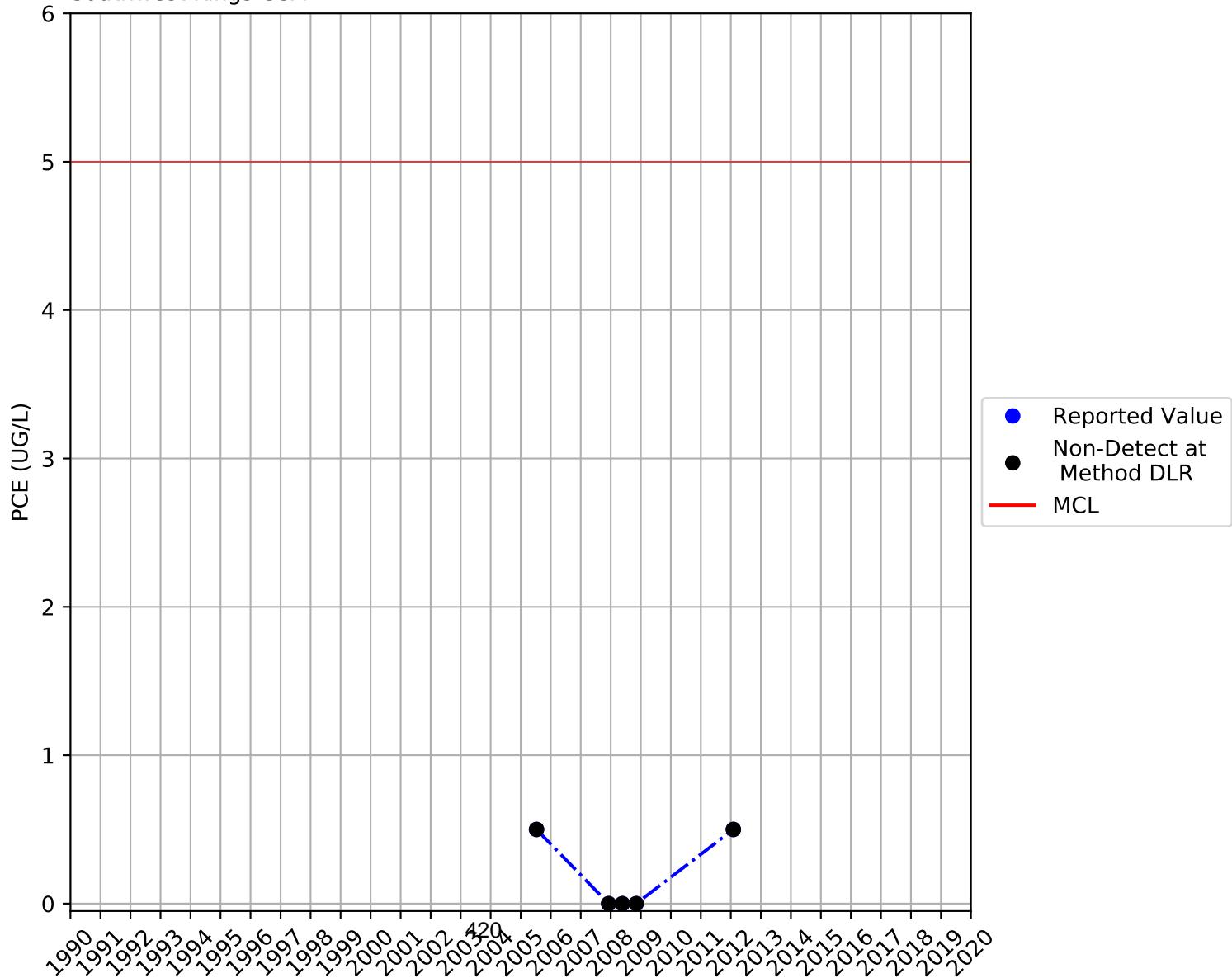
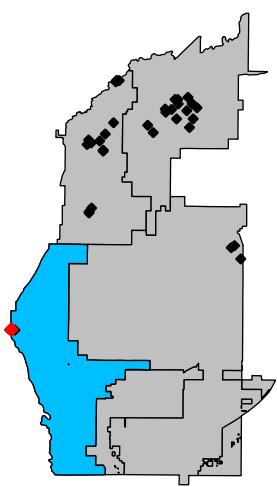
NITRATE (AS NO₃)
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



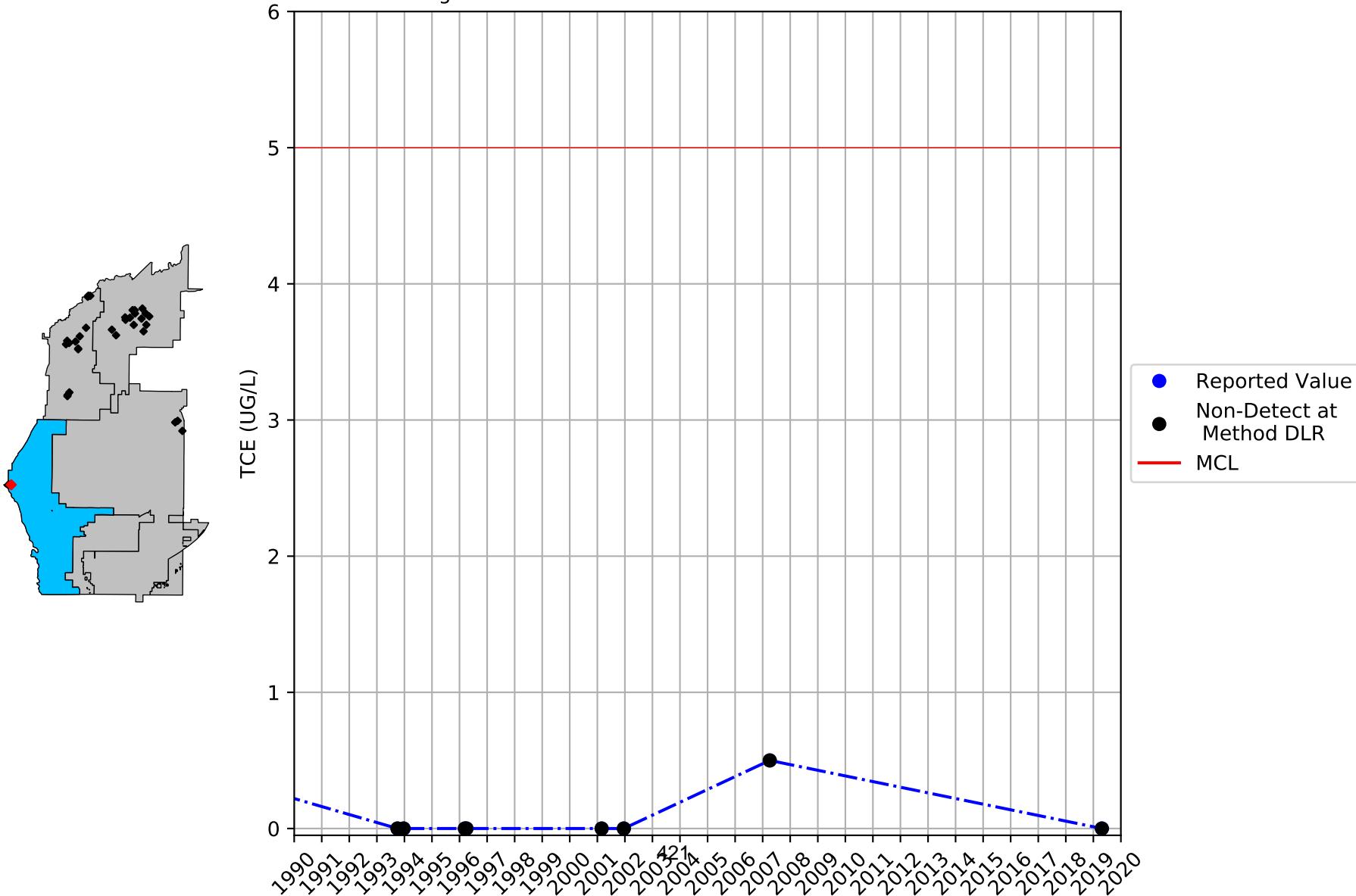
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Southwest Kings GSA



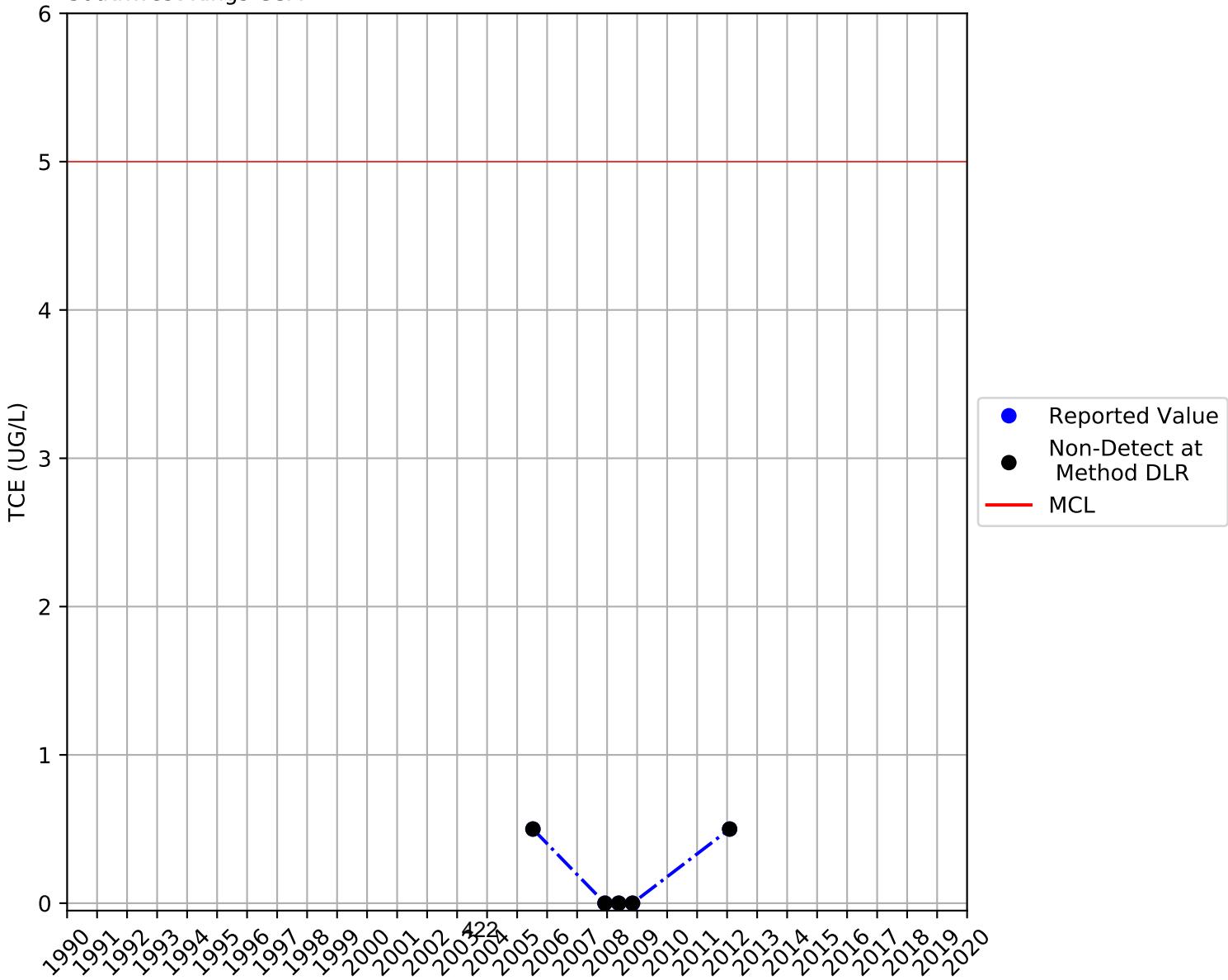
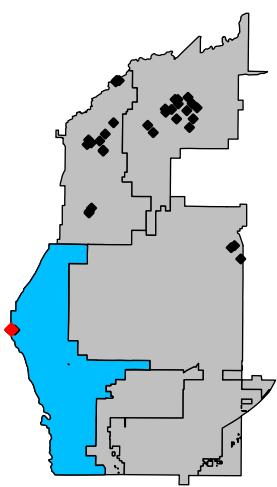
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Southwest Kings GSA



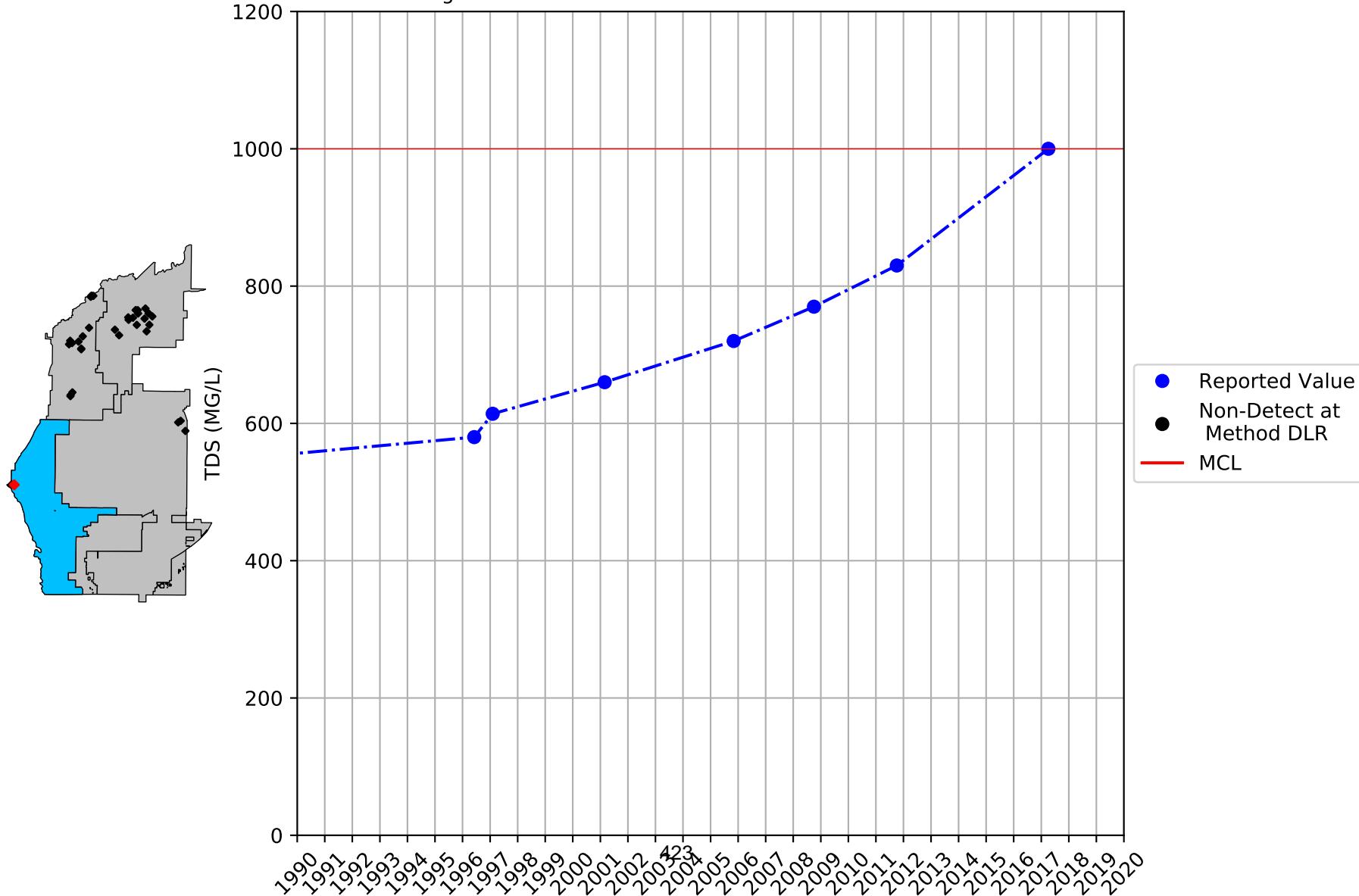
TRICHLOROETHYLENE
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



TRICHLOROETHYLENE
1610009-004 WELL 02A (MAUD) - TRT BENZ & CL2
Southwest Kings GSA



TOTAL DISSOLVED SOLIDS
1610009-003 WELL 03 (BECKY PEASE) - BEFORE BENZ TRT
Southwest Kings GSA



Appendix C – Land Use-Crop Data

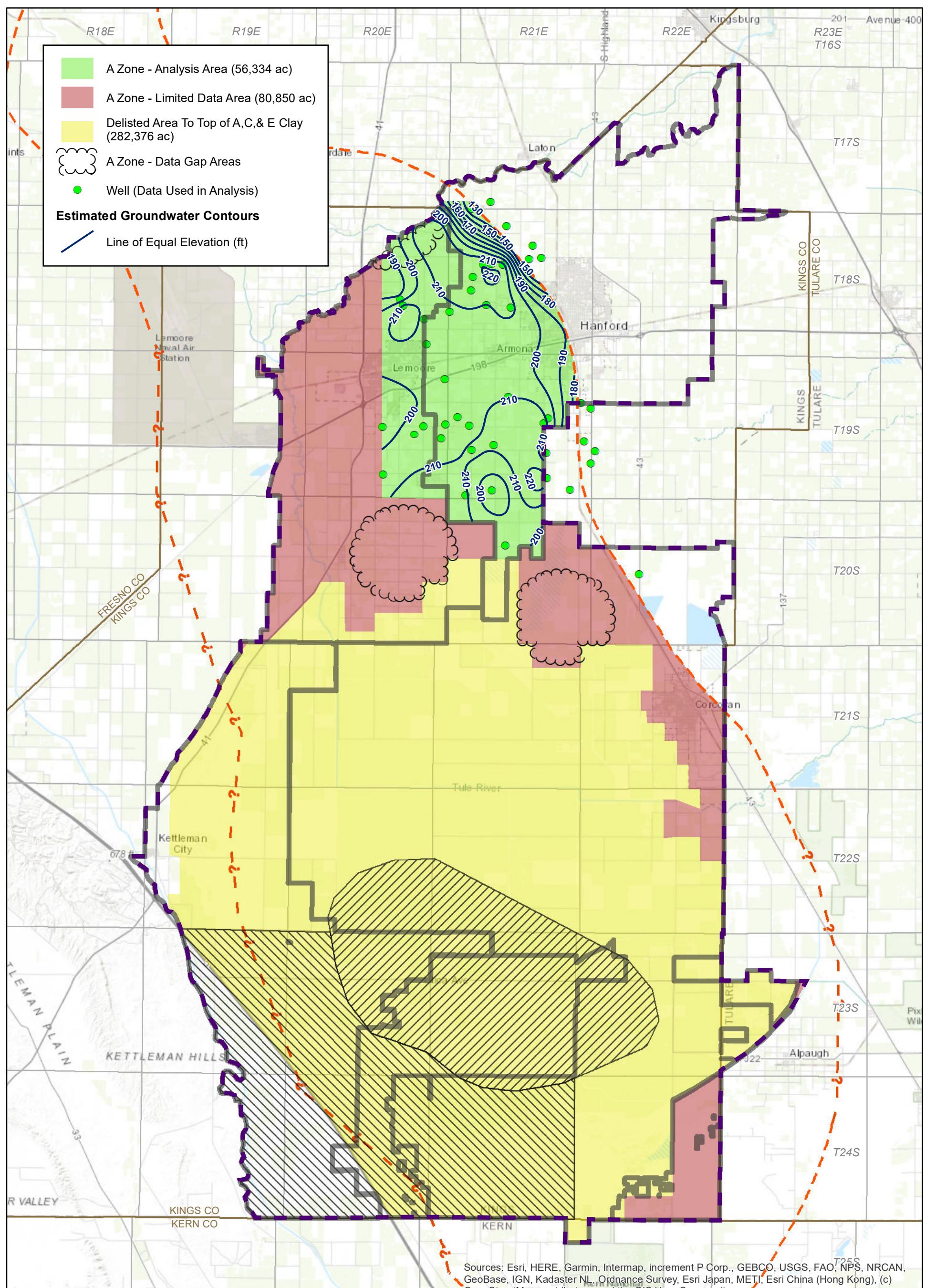
Historical Land Use			
Tulare Lake Subbasin Hydrologic Model Kings County, California		2015 (acres)	2016 (acres)
Tulare Lake Subbasinⁱ			
Alfalfa Hay and Clover		29,665	24,245
Almonds (Adolescent)		6,222	5,365
Almonds (Mature)		15,046	15,105
Almonds (Young)		16,983	21,576
Berries		0	0
Carrot Single Crop		2	16
Citrus (no ground cover)		22	9
Corn and Grain Sorghum		18,826	17,400
Cotton		44,532	73,720
Dairy Single Crop*		0	0
Fallow Land*		237,790	200,972
Forest*		4	0
Grain and Grain Hay		21,196	19,069
Melons		18	86
Misc, field crops		0	0
Onions and Garlic		149	644
Open Water*		5,919	5,435
Pasture and Misc. Grasses		15,744	13,743
Pistachio (Adolescent)		3,575	3,836
Pistachio (Mature)		485	469
Pistachio (Young)		22,678	22,570
Pomegranates (Adolescent)		16	27
Pomegranates (Young)		1,312	3,111
Potatoes, Sugar beets, Turnip etc..		2	2
Riparian*		248	194
Small Vegetables		78	198
Stone Fruit (Adolescent)		191	170
Stone Fruit (Mature)		27	39
Stone Fruit (Young)		1,183	713
Tomatoes and Peppers		19,211	23,420
Urban, Industrial*		30,530	30,930
Wine Grapes with 80% canopy		4,672	10,985
Winter Wheat*		19,420	21,690

Historical Cropping Data			
Tulare Lake Subbasin Hydrologic Model Kings County, California		2015 (acres)	2016 (acres)
Tulare Lake Subbasin			
Alfalfa Hay and Clover		29,665	24,245
Almonds (Adolescent)		6,222	5,365
Almonds (Mature)		15,046	15,105
Almonds (Young)		16,983	21,576
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Carrot Single Crop		2	16
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Melons		18	86
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Pistachio (Young)		22,678	22,570
Pomegranates (Adolescent)		16	27
Pomegranates (Young)		1,312	3,111
Potatoes, Sugar beets, Turnip etc..		2	2
Small Vegetables		78	198
Stone Fruit (Adolescent)		191	170
Stone Fruit (Mature)		27	39
Stone Fruit (Young)		1,183	713
Tomatoes and Peppers		19,211	23,420
Wine Grapes with 80% canopy		4,672	10,985
Winter Wheat*		19,420	21,690
Tulare Lake Subbasin Irrigated Crop Acreage		221,837	256,519

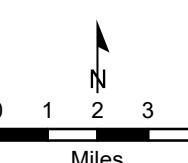
Land Use	2017 Acreage	2018 Acreage	2019 Acreage
1 Alfalfa	26,632	20,258	27,112
2 Almonds	32,439	24,804	23,759
3 Apples	0	11	67
4 Barley	30,188	12,492	12,379
5 Barren	1,833	1,437	7,741
6 Blueberries	0	148	0
7 Broccoli	0	93	4
8 Cantaloupes	91	113	145
9 Carrots	935	174	166
10 Cherries	416	2,010	2,208
11 Chick Peas	0	0	70
12 Citrus	0	17	39
13 Clover/Wildflowers	0	2	0
14 Corn	3,170	14,516	11,385
15 Cotton	86,210	80,879	93,212
16 Dbl Crop Barley/Corn	1,405	119	448
17 Dbl Crop Oats/Corn	20	79	281
18 Dbl Crop Triticale/Corn	0	0	4,223
19 Dbl Crop WinWht/Corn	20,886	19,304	12,607
20 Dbl Crop WinWht/Cotton	491		19
21 Dbl Crop WinWht/Sorghum	7,383	3,251	3,694
22 Developed/High Intensity	2,791	2,800	2,613
23 Developed/Low Intensity	7,763	7,441	9,038
24 Developed/Medium Intensity	13,089	13,192	11,636
25 Developed/Open Space	8,878	8,788	10,611
26 Dry Beans	212	293	1
27 Durum Wheat	0	104	2,858
28 Evergreen Forest	10	0	3
29 Fallow/Idle Cropland	92,681	157,577	131,280
30 Garlic	84	697	636
31 Grapes	6,568	5,427	6,215
32 Grass/Pasture	17,944	16,858	18,733
33 Greens	0	6	0
34 Hemp	26	15	73
35 Herbaceous Wetlands	99	336	4,722
36 Herbs	0	5	36
37 Honeydew Melons	443	40	41
38 Lettuce	274	219	325
39 Misc Veggies & Fruits	0	9	101
40 Nectarines	55	479	308
41 Oats	1,515	466	3,372
42 Olives	0	81	124
43 Onions	2,634	4,089	2,735
44 Open Water	11,321	11,333	7,485
45 Oranges	2	246	717
46 Other Hay/Non Alfalfa	7,749	1,821	1,738
47 Other Tree Crops	158	6,361	2,418
48 Peaches	108	1,057	564
49 Peas	0	280	144
50 Pecans	0	29	25
51 Peppers	152	9	8
52 Pistachios	49,902	22,977	24,514
53 Plums	240	292	1,582
54 Pomegranates	3,838	3,472	3,769
55 Potatoes	0	4	14
56 Radishes	0	6	0
57 Rice	2	3	26
58 Rye	2	361	1,264
59 Safflower	20,522	17,633	18,006
60 Shrubland	244	447	492
61 Sod/Grass Seed	118	16	33
62 Sorghum	3,175	6,698	1,324
63 Spring Wheat	954	0	196
64 Squash	0	0	12
65 Strawberries	0	2	1
66 Sugarcane	0	0	0
67 Sunflowers	0	2	1
68 Tomatoes	13,795	16,127	18,961
69 Triticale	3,273	4,550	2,100
70 Walnuts	19,549	14,826	18,698
71 Watermelons	30	27	1
72 Winter Wheat	32,896	27,902	26,022
73 Woody Wetlands	34	119	94
Total	535,223	535,223	535,223

Crop Use	2017 Acreage	2018 Acreage	2019 Acreage
1 Alfalfa	26,632	20,258	27,112
2 Almonds	32,439	24,804	23,759
3 Apples	0	11	67
4 Barley	30,188	12,492	12,379
5 Blueberries	0	148	0
6 Broccoli	0	93	4
7 Cantaloupes	91	113	145
8 Carrots	935	174	166
9 Cherries	416	2,010	2,208
10 Chick Peas	0	0	70
11 Citrus	0	17	39
12 Corn	3,170	14,516	11,385
13 Cotton	86,210	80,879	93,212
14 Dbl Crop Barley/Corn	1,405	119	448
15 Dbl Crop Oats/Corn	20	79	281
16 Dbl Crop Triticale/Corn	0	0	4,223
17 Dbl Crop WinWht/Corn	20,886	19,304	12,607
18 Dbl Crop WinWht/Cotton	491		19
19 Dbl Crop WinWht/Sorghum	7,383	3,251	3,694
20 Dry Beans	212	293	1
21 Durum Wheat	0	104	2,858
22 Garlic	84	697	636
23 Grapes	6,568	5,427	6,215
24 Grass/Pasture	17,944	16,858	18,733
25 Greens	0	6	0
26 Hemp	26	15	73
27 Herbs	0	5	36
28 Honeydew Melons	443	40	41
29 Lettuce	274	219	325
30 Misc Veggies & Fruits	0	9	101
31 Nectarines	55	479	308
32 Oats	1,515	466	3,372
33 Olives	0	81	124
34 Onions	2,634	4,089	2,735
35 Oranges	2	246	717
36 Other Hay/Non Alfalfa	7,749	1,821	1,738
37 Other Tree Crops	158	6,361	2,418
38 Peaches	108	1,057	564
39 Peas	0	280	144
40 Pecans	0	29	25
41 Peppers	152	9	8
42 Pistachios	49,902	22,977	24,514
43 Plums	240	292	1,582
44 Pomegranates	3,838	3,472	3,769
45 Potatoes	0	4	14
46 Radishes	0	6	0
47 Rice	2	3	26
48 Rye	2	361	1,264
49 Safflower	20,522	17,633	18,006
50 Sod/Grass Seed	118	16	33
51 Sorghum	3,175	6,698	1,324
52 Spring Wheat	954	0	196
53 Squash	0	0	12
54 Strawberries	0	2	1
55 Sugarcane	0	0	0
56 Sunflowers	0	2	1
57 Tomatoes	13,795	16,127	18,961
58 Triticale	3,273	4,550	2,100
59 Walnuts	19,549	14,826	18,698
60 Watermelons	30	27	1
61 Winter Wheat	32,896	27,902	26,022
Total	396,481	331,751	349,508

Appendix D – Contour Maps



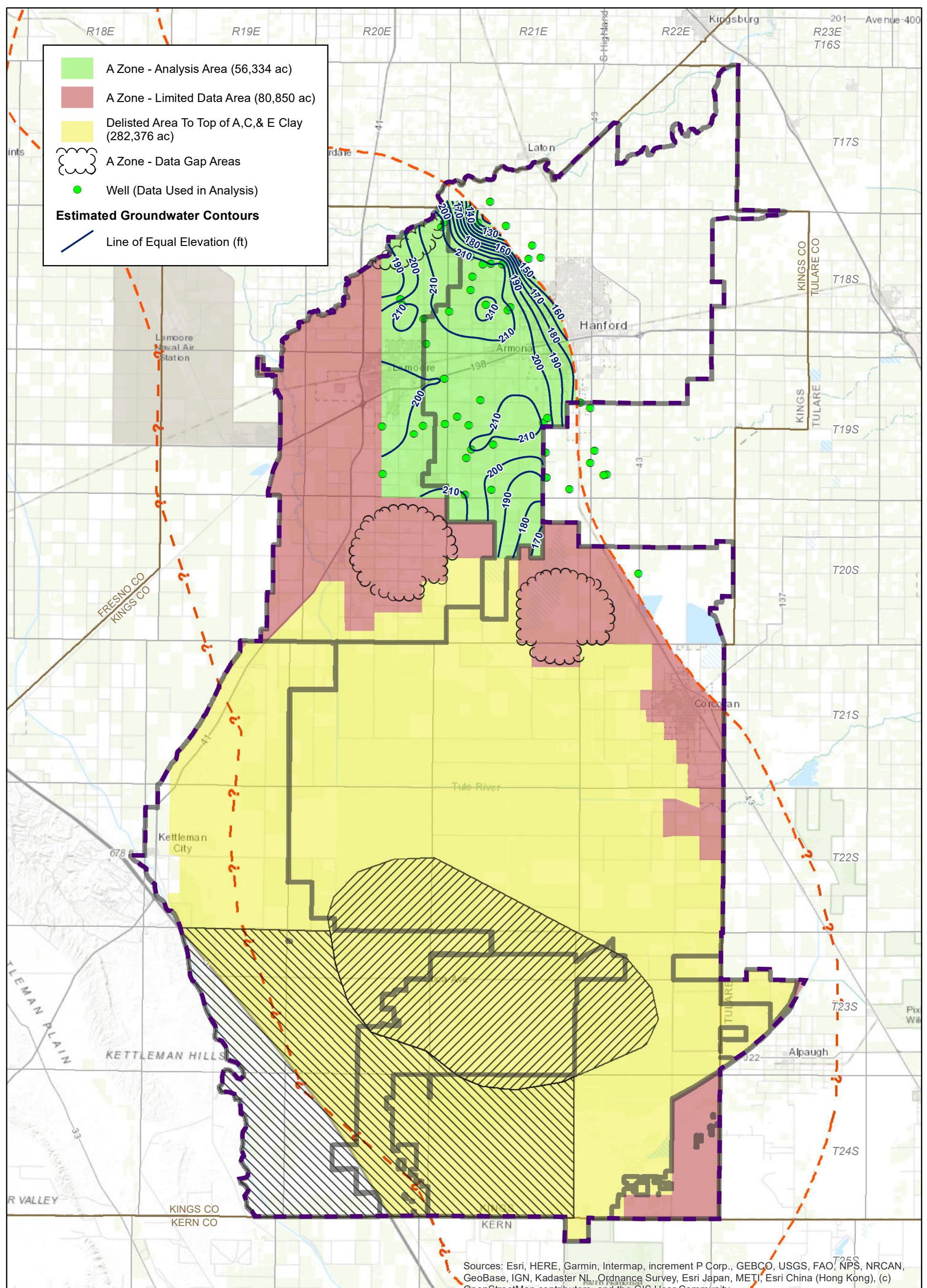
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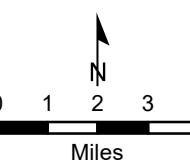
Tulare Lake Subbasin
Groundwater Sustainability Agency
A Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
A Zone Spring 2015
Estimated Groundwater Surface
Elevation Contours



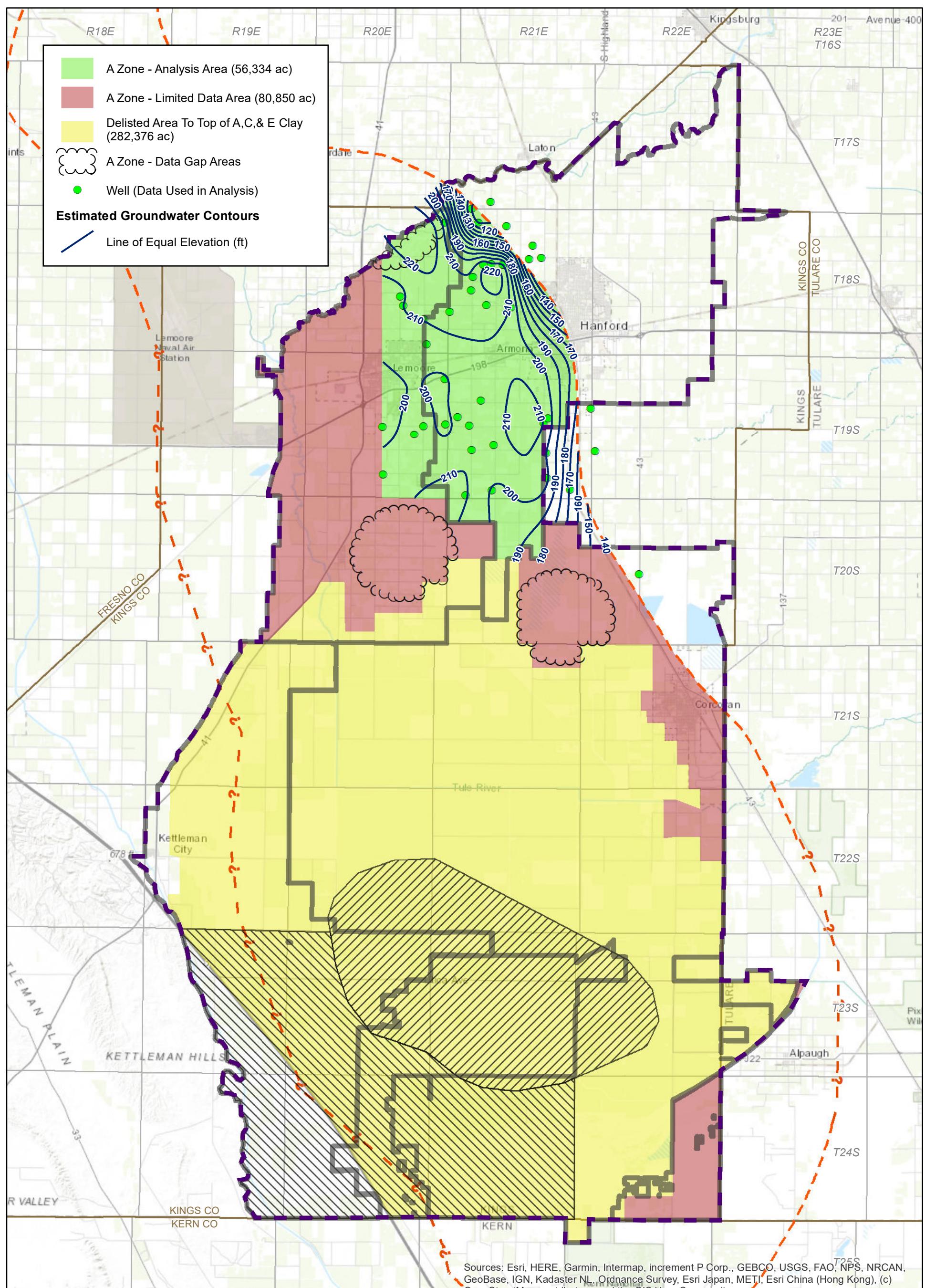
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Tulare Lake Subbasin
Groundwater Sustainability Agency
A Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
A Zone Spring 2016
Estimated Groundwater Surface
Elevation Contours



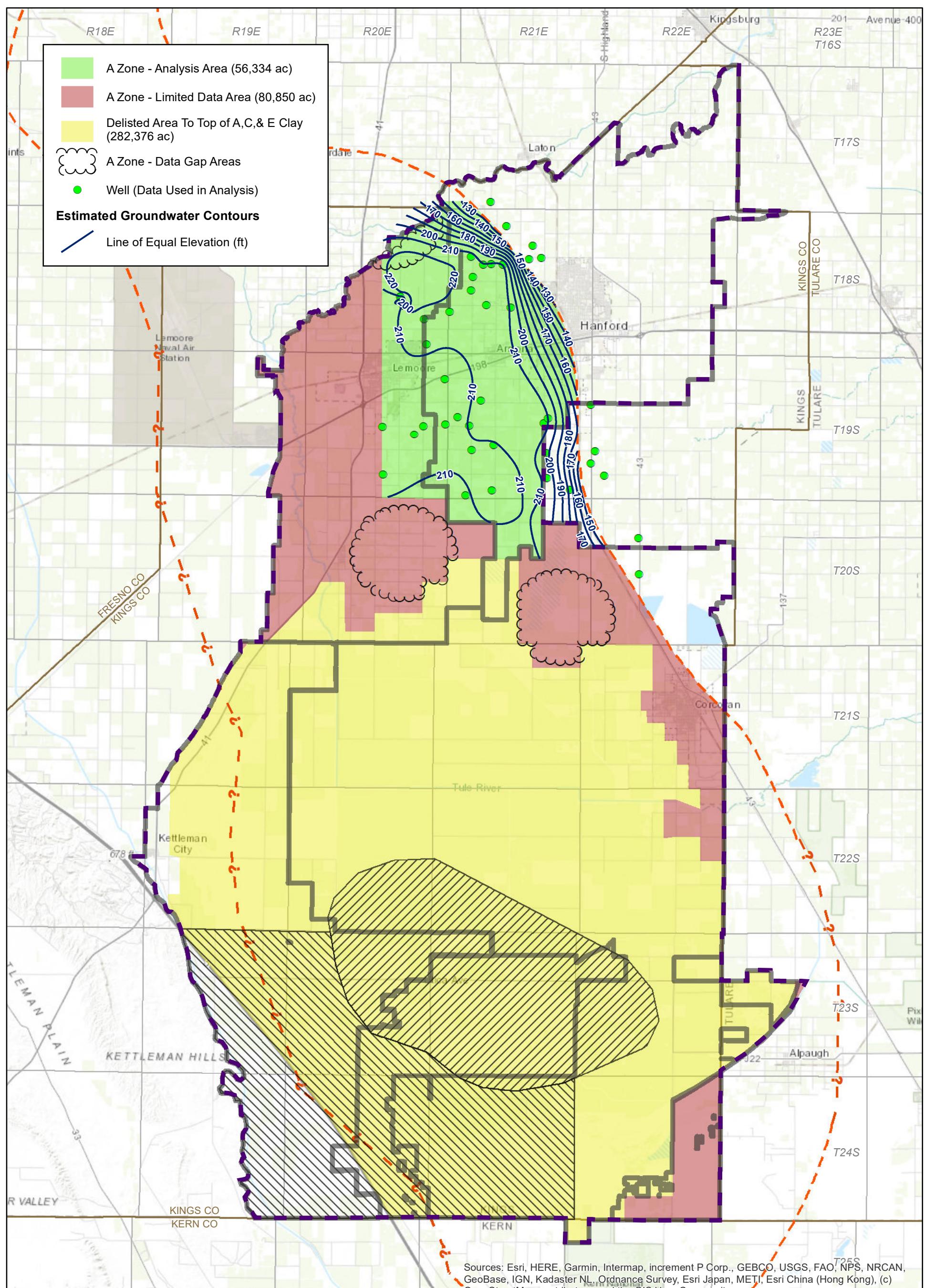
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Tulare Lake Subbasin
Groundwater Sustainability Agency
A Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
A Zone Spring 2017
Estimated Groundwater Surface
Elevation Contours



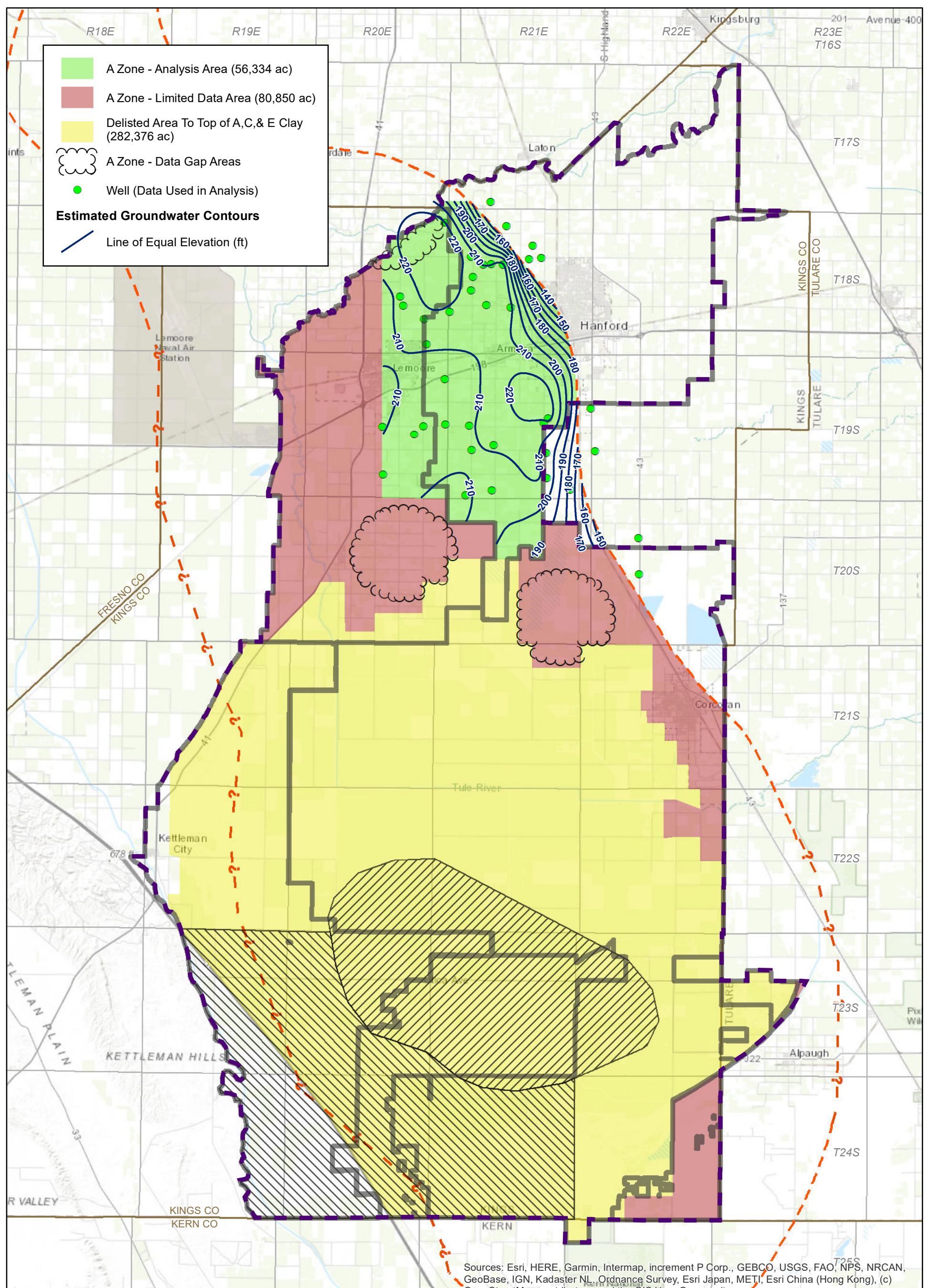
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Tulare Lake Subbasin
Groundwater Sustainability Agency
A Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
A Zone Spring 2018
Estimated Groundwater Surface
Elevation Contours



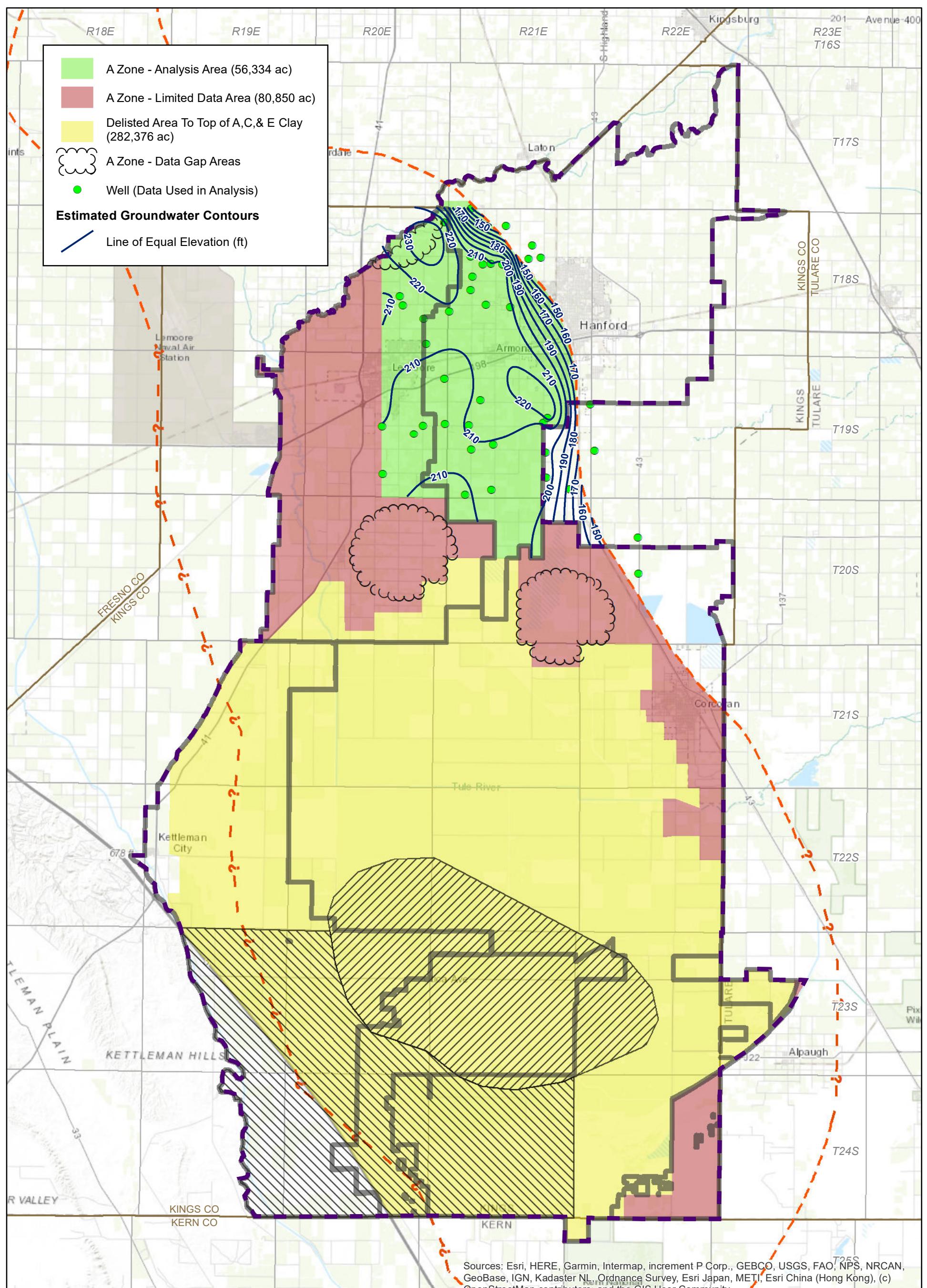
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Tulare Lake Subbasin
Groundwater Sustainability Agency
A Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
A Zone Fall 2019
Estimated Groundwater Surface
Elevation Contours



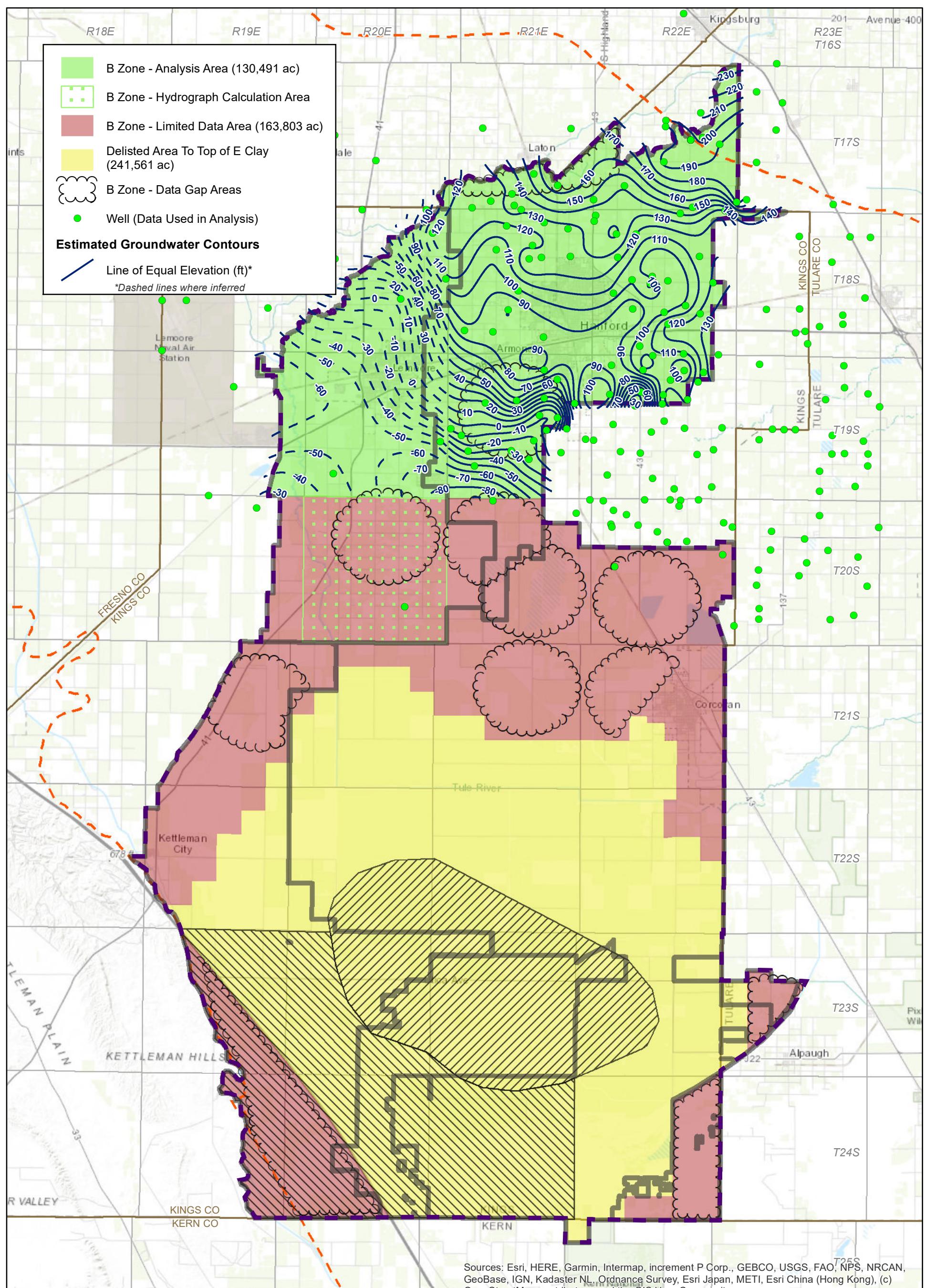
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Tulare Lake Subbasin
Groundwater Sustainability Agency
A Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
A Zone Spring 2019
Estimated Groundwater Surface
Elevation Contours



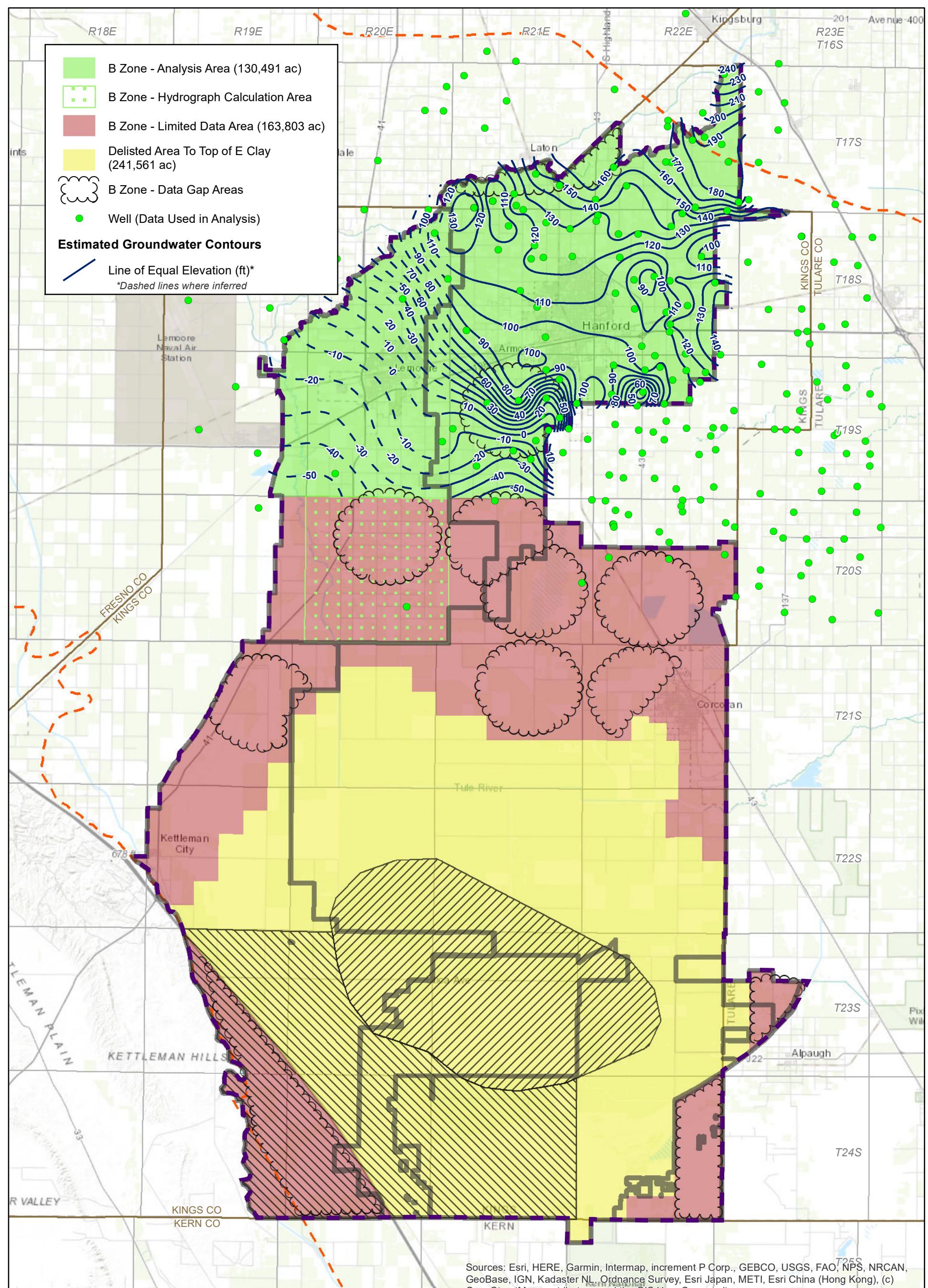
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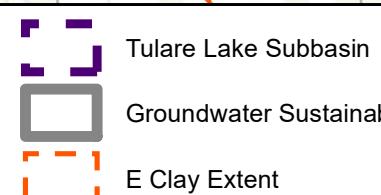
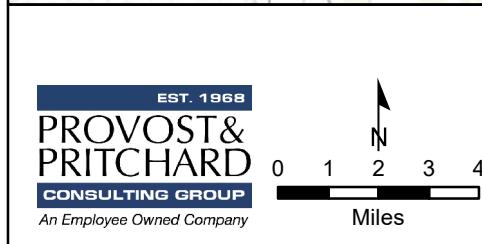
Tulare Lake Subbasin
Groundwater Sustainability Agency
E Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
B Zone Spring 2015
Estimated Groundwater Surface
Elevation Contours

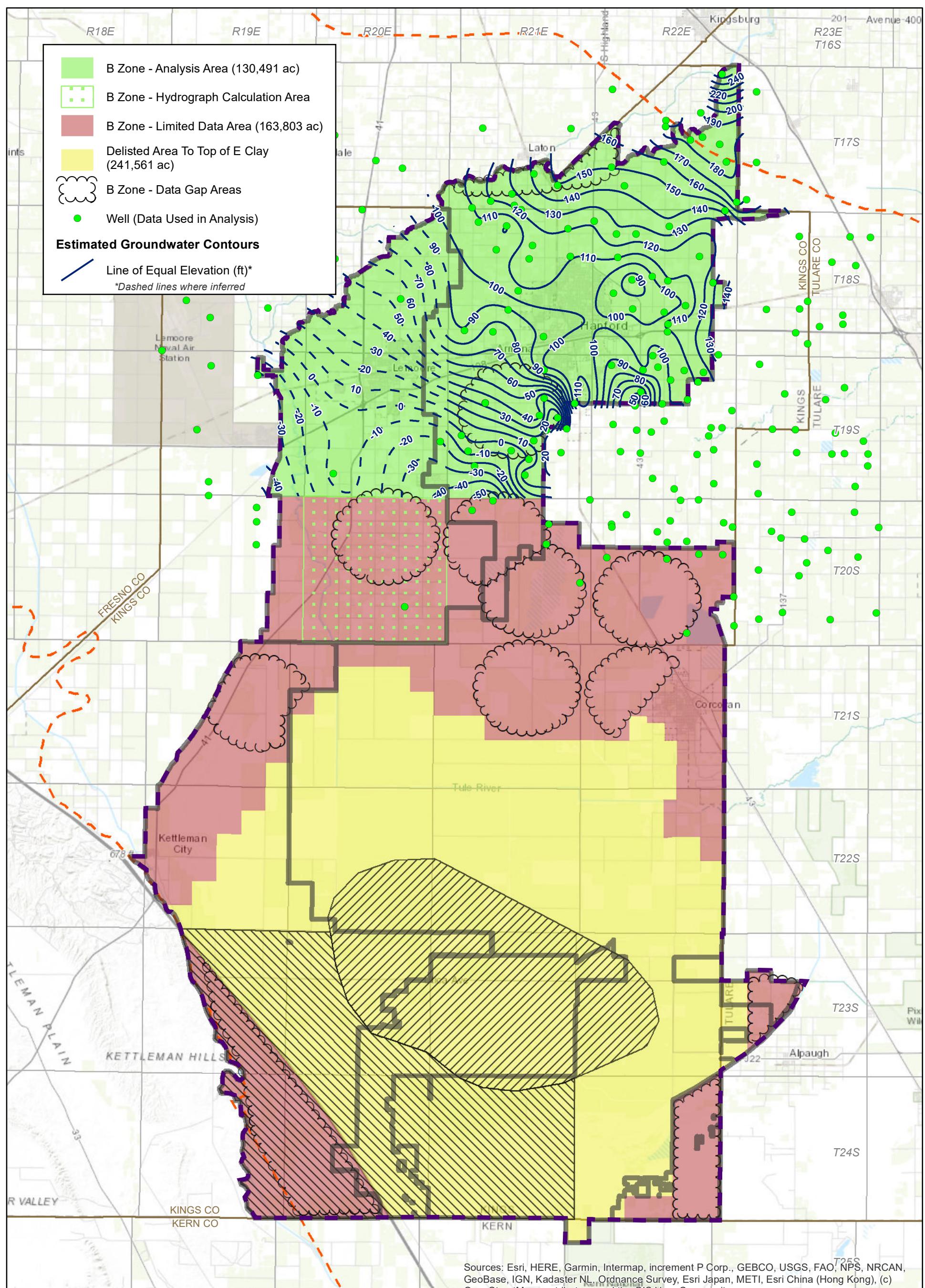


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCan, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

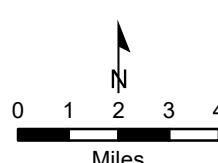


Tulare Lake Subbasin

B Zone Spring 2016
Estimated Groundwater Surface
Elevation Contours



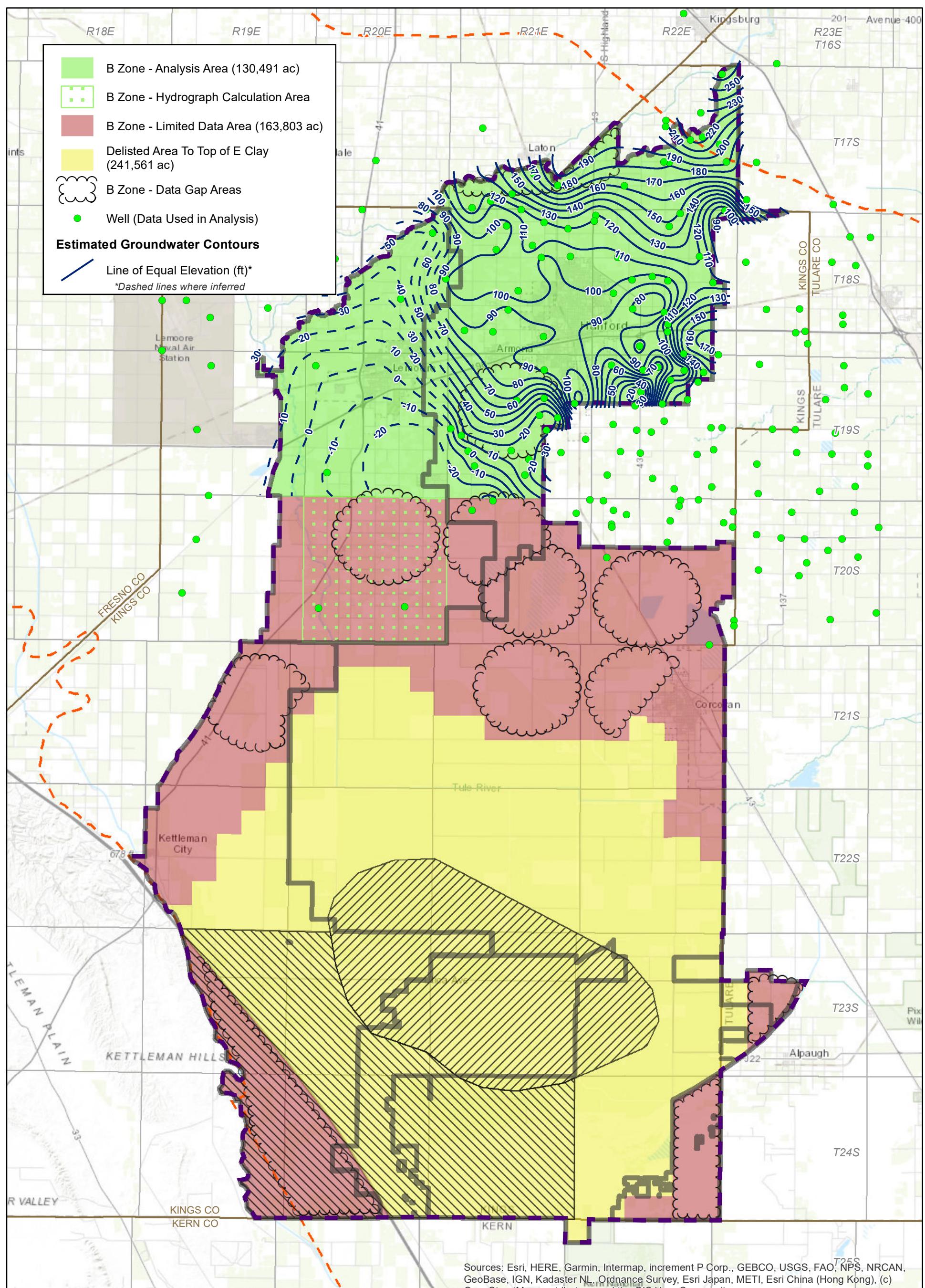
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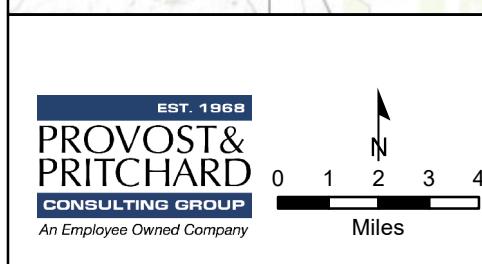
Tulare Lake Subbasin
Groundwater Sustainability Agency
E Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
B Zone Spring 2017
Estimated Groundwater Surface
Elevation Contours



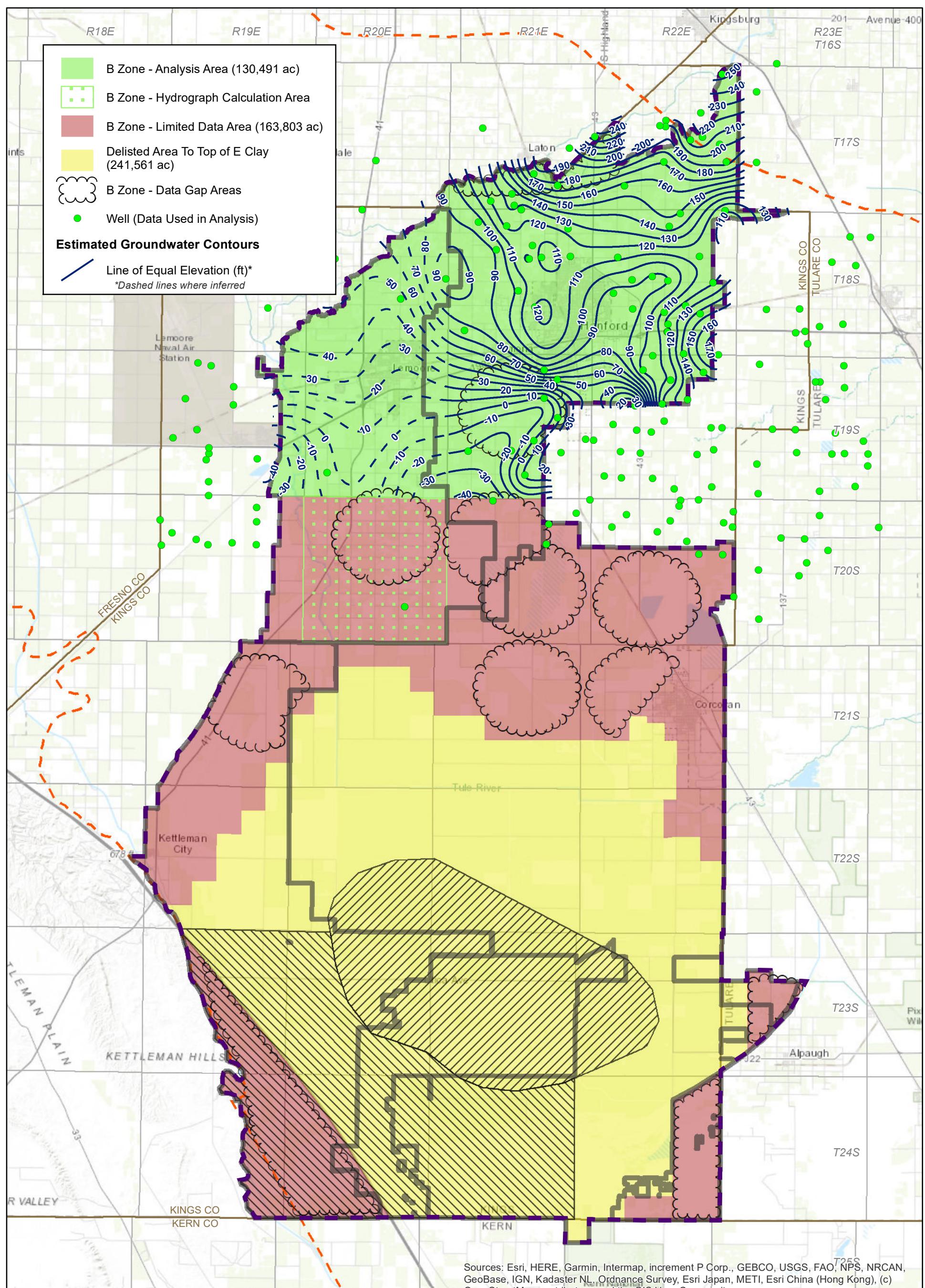
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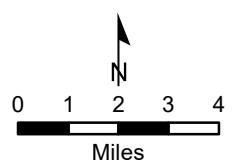
Tulare Lake Subbasin
Groundwater Sustainability Agency
E Clay Extent

Management Area A
Management Area B
Township / Range
County

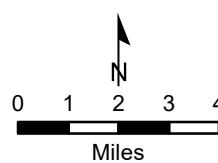
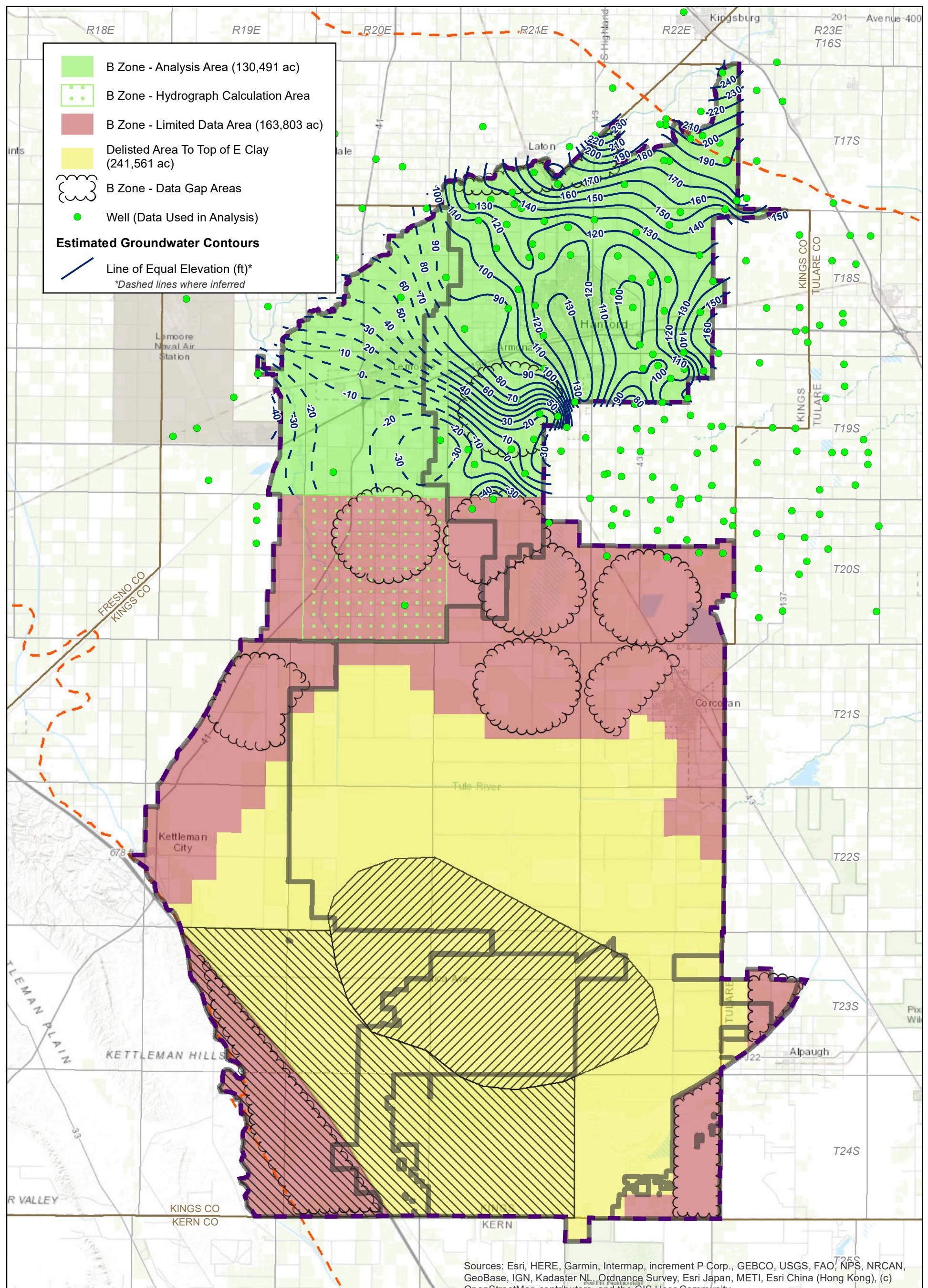
Tulare Lake Subbasin
B Zone Spring 2018
Estimated Groundwater Surface
Elevation Contours



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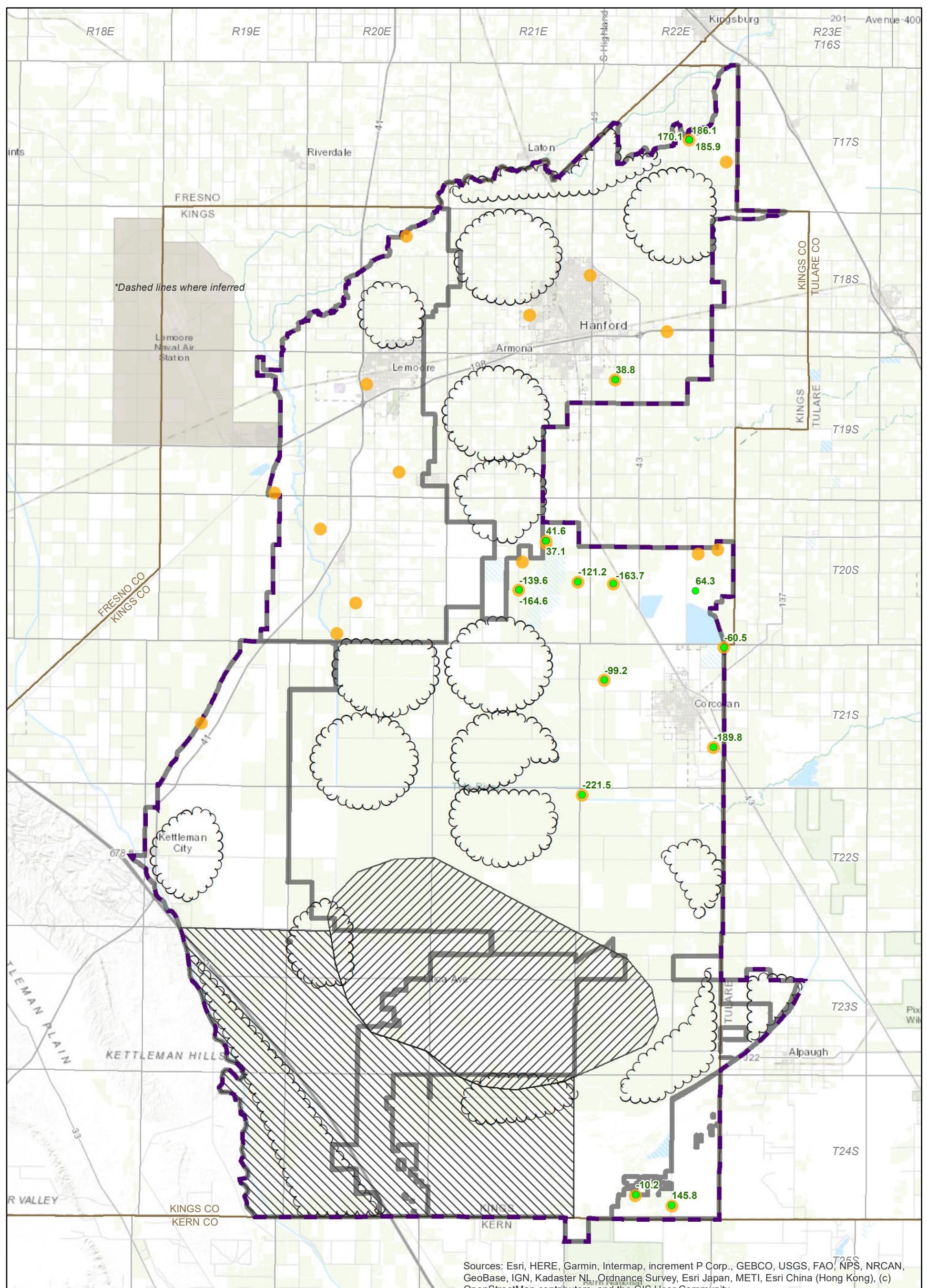
Tulare Lake Subbasin
B Zone Fall 2019
Estimated Groundwater Surface
Elevation Contours



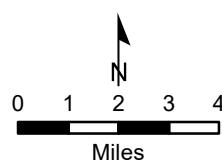
Tulare Lake Subbasin
Groundwater Sustainability Agency
E Clay Extent

Management Area A
Management Area B
Township / Range
County

Tulare Lake Subbasin
B Zone Spring 2019
Estimated Groundwater Surface
Elevation Contours



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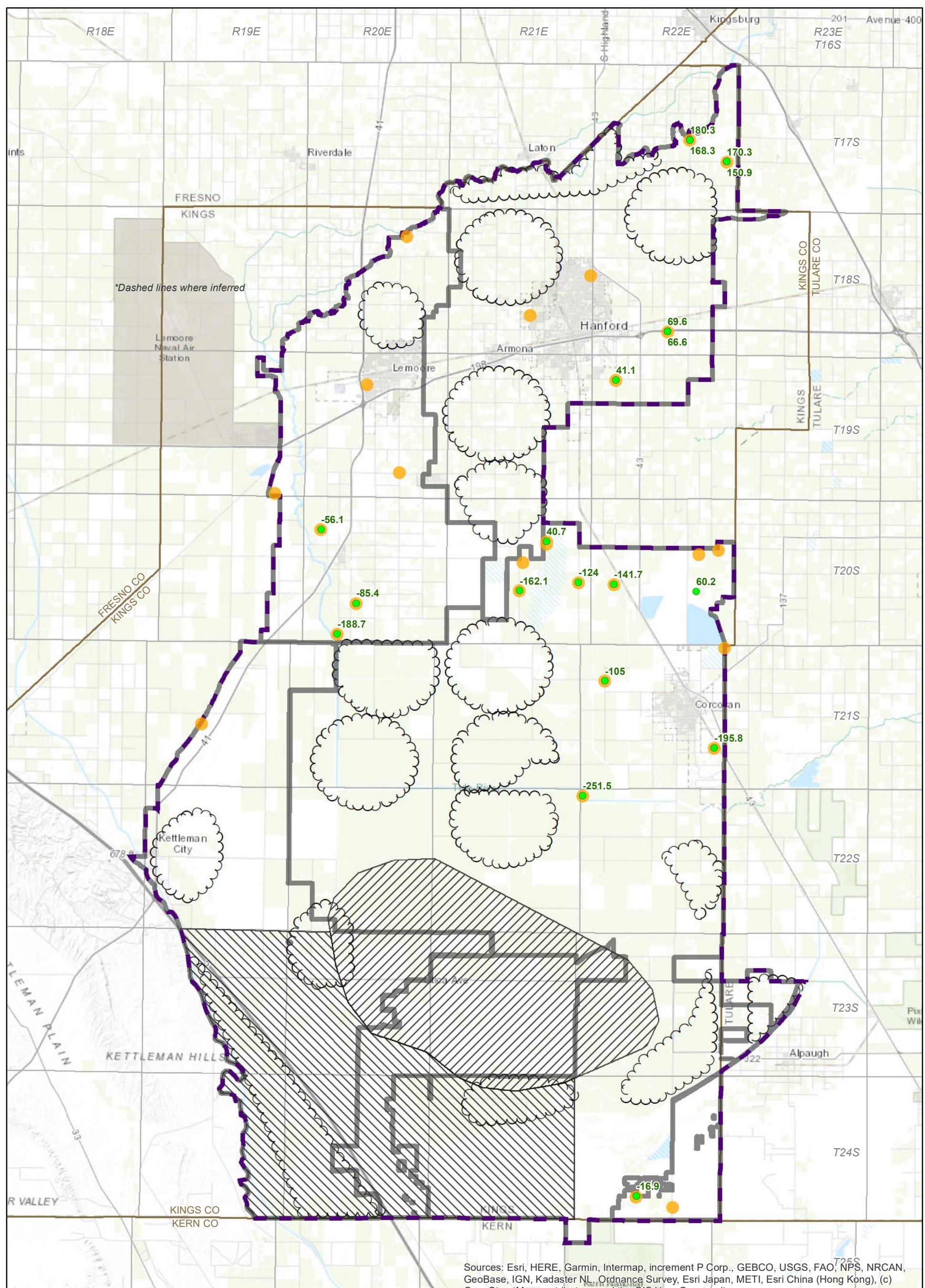


- Tulare Lake Subbasin
- Groundwater Sustainability Agency
- Well (C Zone , With Data)
- Well (C Zone , RMS)

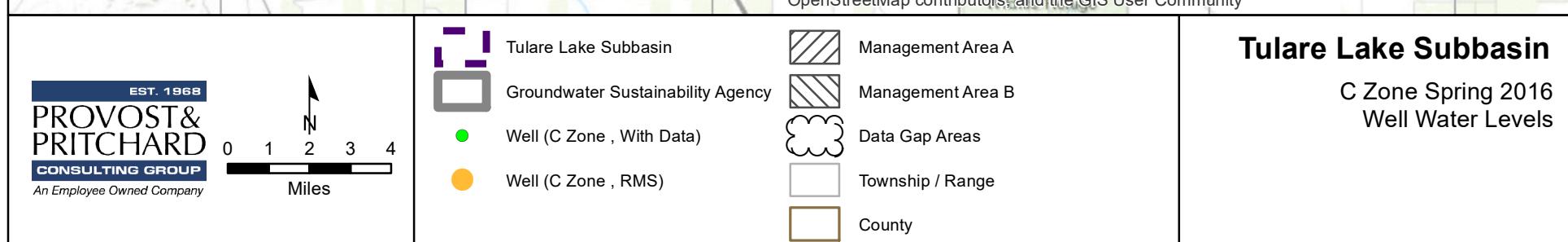
- Management Area A
- Management Area B
- Data Gap Areas
- Township / Range
- County

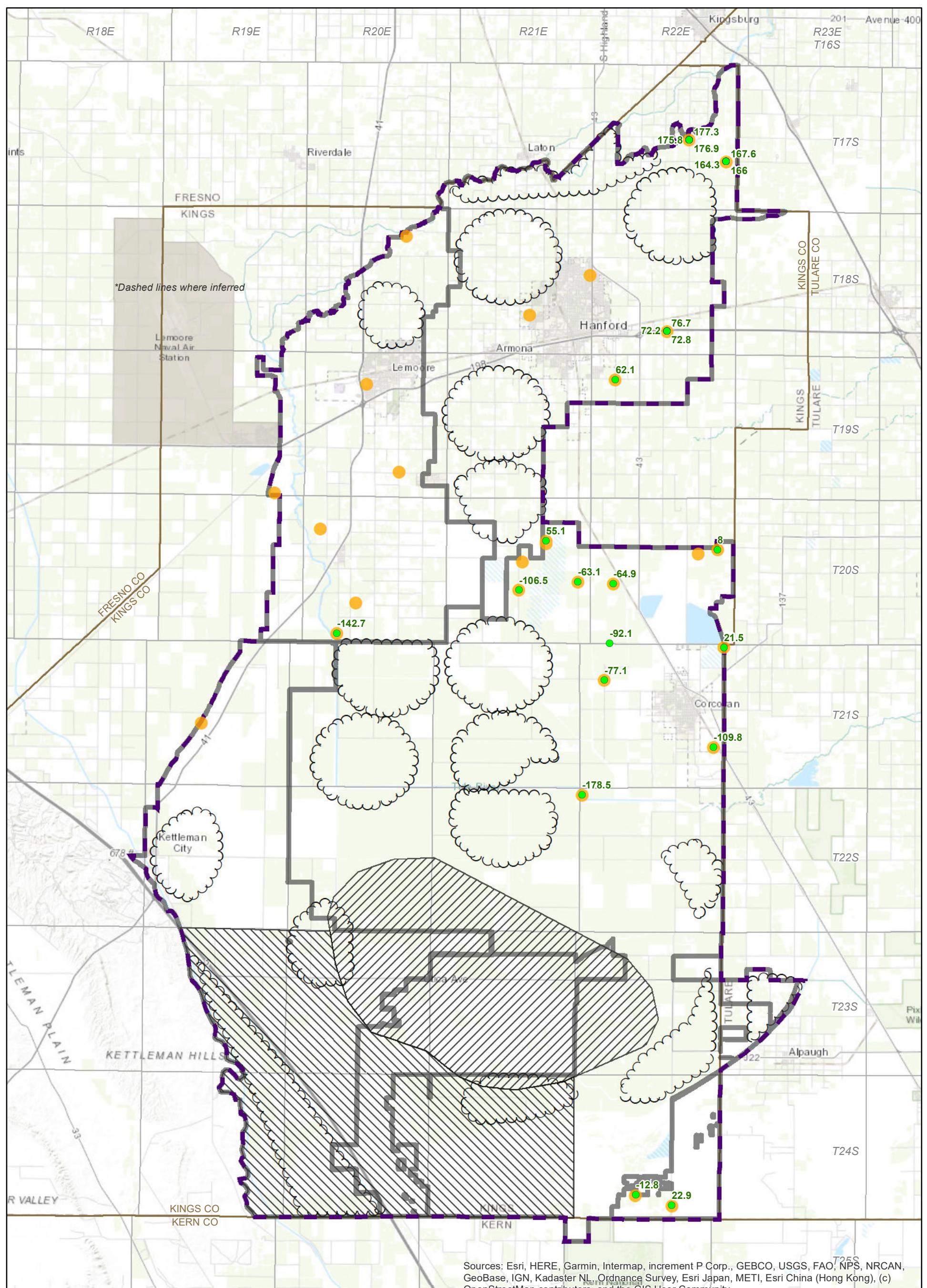
Tulare Lake Subbasin

C Zone Spring 2015 Well Water Levels



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCan, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community





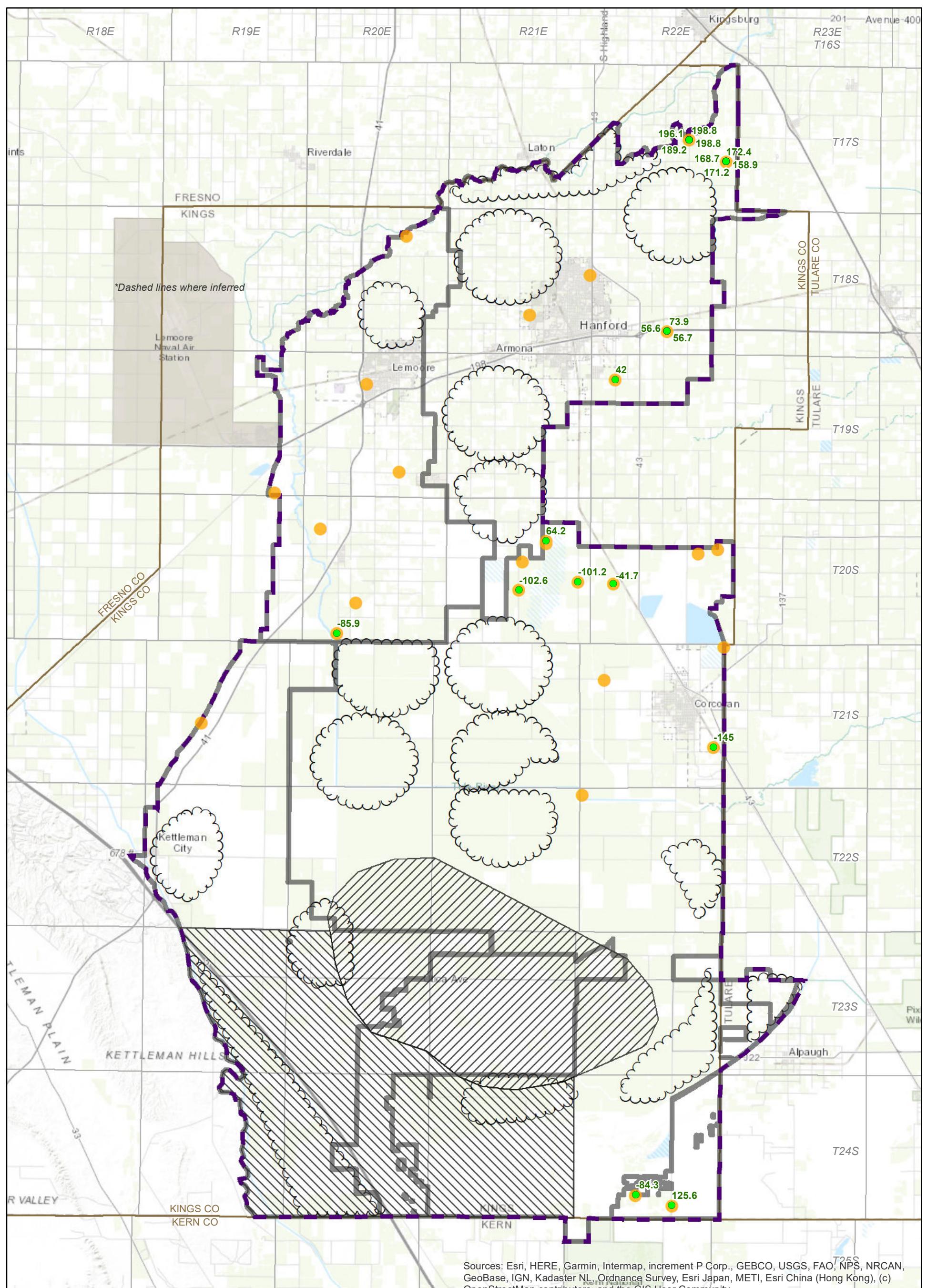
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Tulare Lake Subbasin
Groundwater Sustainability Agency
Well (C Zone , With Data)
Well (C Zone , RMS)

Management Area A
Management Area B
Data Gap Areas
Township / Range
County

Tulare Lake Subbasin
C Zone Spring 2017
Well Water Levels



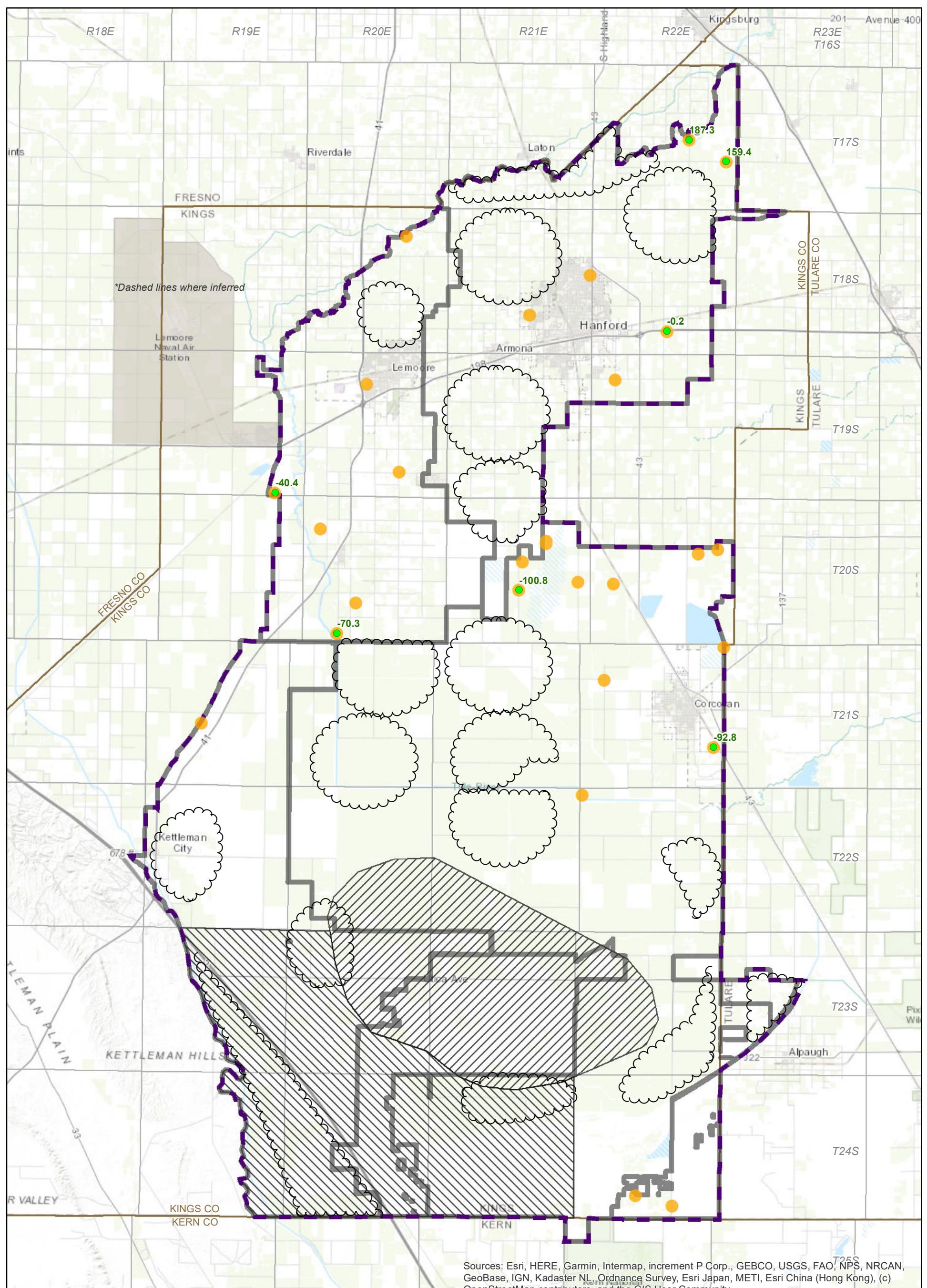
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Miles

Tulare Lake Subbasin
Groundwater Sustainability Agency
Well (C Zone , With Data)
Well (C Zone , RMS)

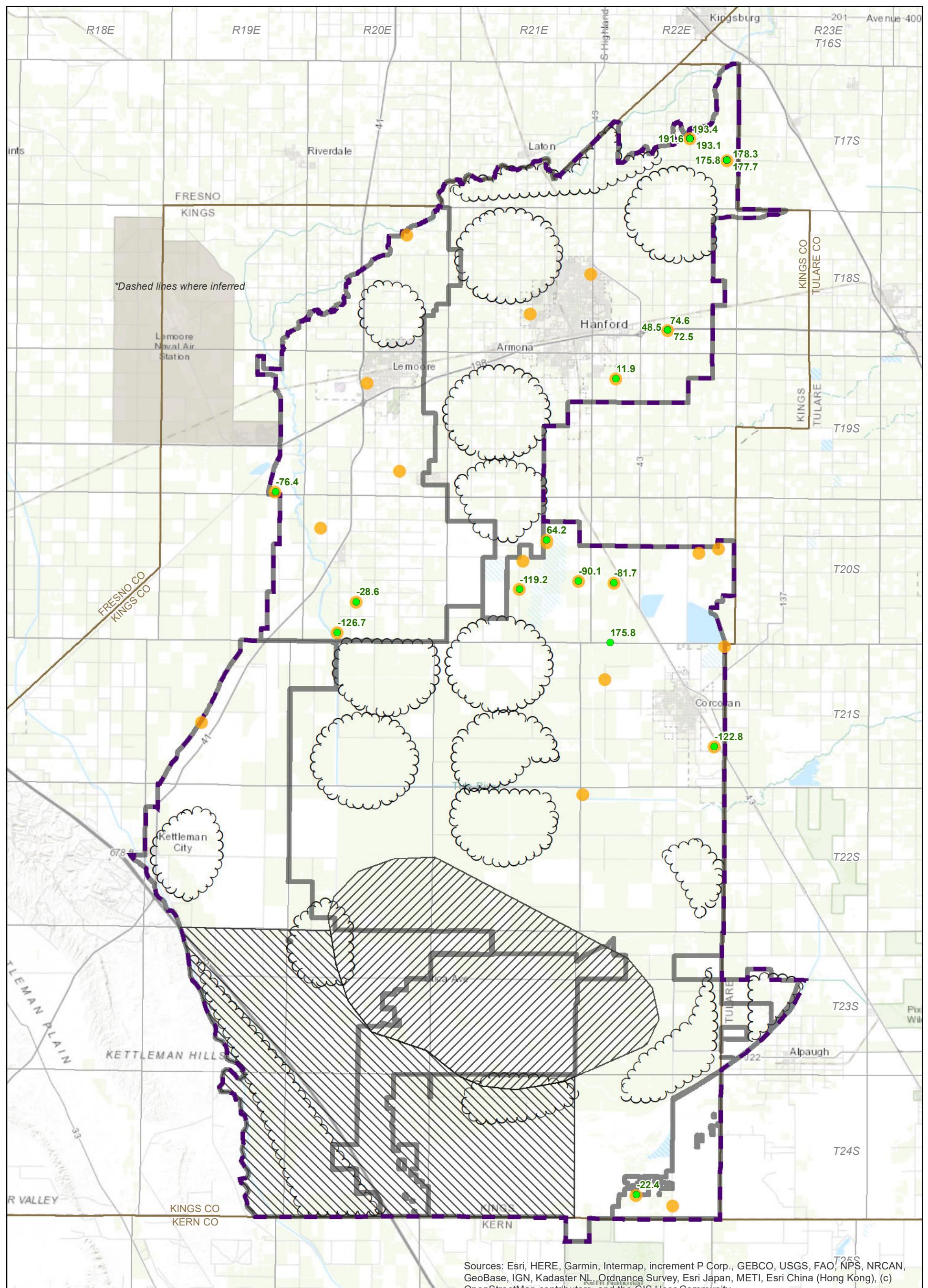
Management Area A
Management Area B
Data Gap Areas
Township / Range
County

Tulare Lake Subbasin
C Zone Spring 2018
Well Water Levels

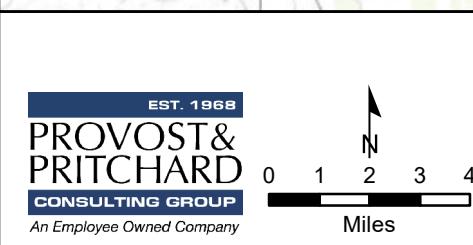


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCan, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

PROVOST & PRITCHARD <small>CONSULTING GROUP</small> <small>An Employee Owned Company</small>	 Miles	 Tulare Lake Subbasin	 Management Area A	Tulare Lake Subbasin
		 Groundwater Sustainability Agency	 Management Area B	C Zone Fall 2019 Well Water Levels
		 Well (C Zone , With Data)	 Data Gap Areas	
		 Well (C Zone , RMS)	 Township / Range	
			 County	



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCan, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



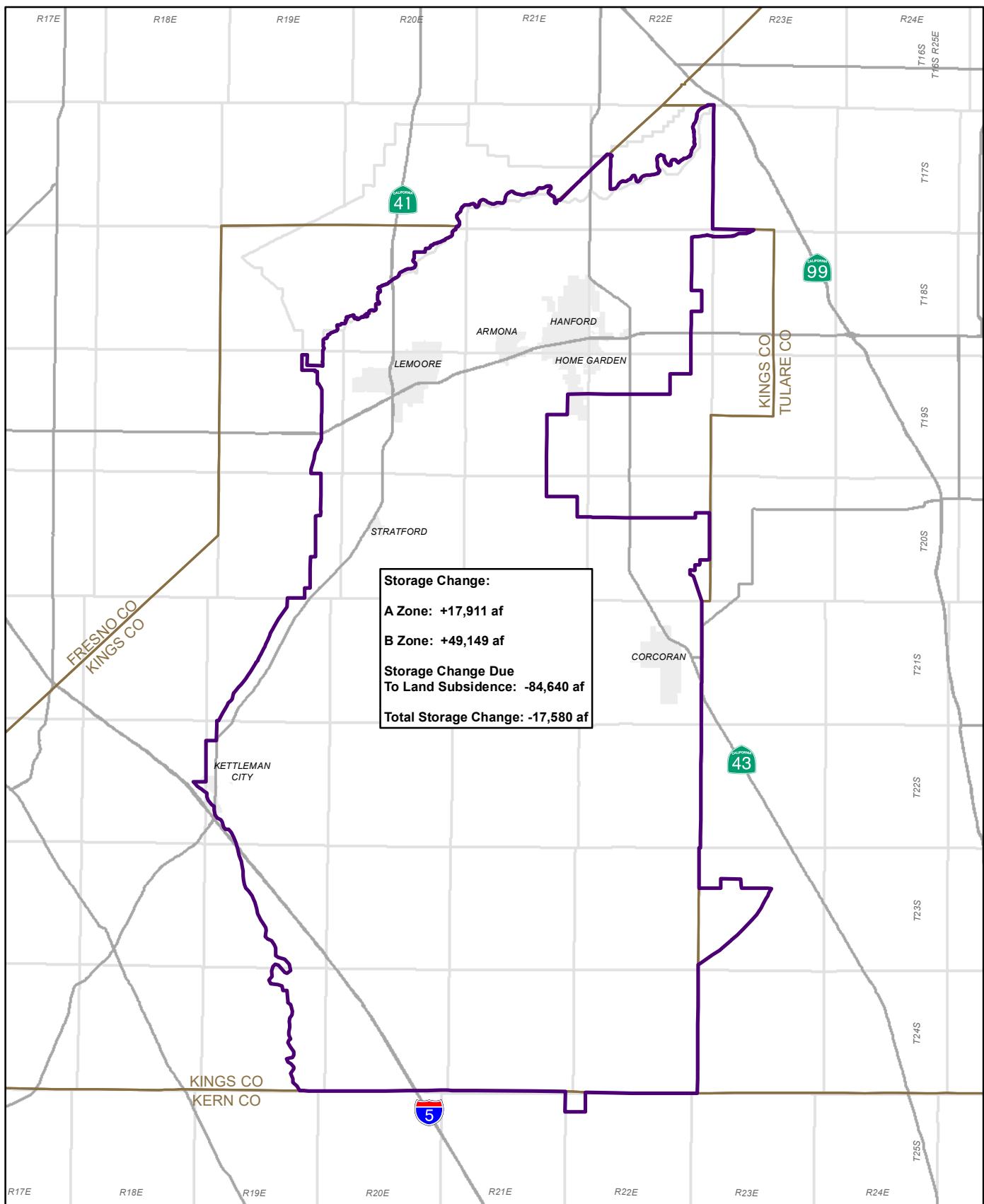
- [Purple square] Tulare Lake Subbasin
- [Grey square] Groundwater Sustainability Agency
- [Green circle] Well (C Zone , With Data)
- [Orange circle] Well (C Zone , RMS)

- [Hatched square] Management Area A
- [Dashed hatched square] Management Area B
- [Cloud icon] Data Gap Areas
- [White square] Township / Range
- [Brown square] County

Tulare Lake Subbasin

C Zone Spring 2019
Well Water Levels

Appendix E – Storage Change



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- Tulare Lake Subbasin
- County
- Township/Range

Tulare Lake Subbasin
Groundwater Storage Change
Spring 2018 - Spring 2019

Appendix F – Land Subsidence Map

