SRK Consulting (Canada) Inc.
320 Granville Street, Suite 2600
Vancouver, BC V6C 1S9
Canada

+1 604 681 4196 office
+1 778 508 3584 fax
vancouver@srk.com
www.srk.com

FINAL

Memo

To	Lisa Mah, Guy Dufour, Brennan Jay, Behzad Soltani (AEM)	**Client**	Agnico Eagle Mines Limited
From	Nina Feng, Federico Giurich (SRK)	**Project**	CAPR003067
Cc	John Kurylo, Brandon Smith (SRK)	**Date**	March 20, 2025
Subject	Doris Mine – 2024 Annual Water and Load Balance Assessment		

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1 Introduction

This document provides a summary of mine water management results produced using the Hope Bay Project Operations water and load balance (WLB) model, current to December 31, 2024.

Monthly monitoring of the Doris Tailings Impoundment Area (TIA) is a requirement under the Hope Bay Water Licence No: 2AM-DOH1335 – Amendment No. 2 (NWB 2018). Schedule B, Item #4 stipulates that a summary of monthly results for the Doris TIA water and load balance (WLB) model, including any re-calibrations, is required to be reported to the Nunavut Water Board, annually.

The purpose of this report series is therefore to document and communicate regular status updates on the site's operations water and load balance to:

- Agnico Eagle Mines Limited (Agnico) site staff (e.g., Environment, Tailings, Operations).
- The Nunavut Water Board.
- Representatives of other consultancies and stakeholders with specific interest in the operations WLB model.

2 Operations Model

The Hope Bay operations WLB model focuses on metrics related to the active tailings facility, the Doris TIA. Although no tailings were deposited in the TIA in 2024, use of the TIA was retained as a contact storage water reservoir during care and maintenance.

During operations, the Doris TIA receives tailings slurry from the mine's process plant (mill), runoff from the Naartok East crown pillar recovery pit, the camp, ore and waste rock pads (and associated ponds), and upstream runoff and direct precipitation. In July 2022, the southern part of the Doris TIA was segregated (through the construction of an interim dike) to create a Saline Water Storage (SWS) area, which receives mine water from the Doris underground workings.

Model set-up and functionality are detailed in the Final Environmental Impact Statement (FEIS) Water and Load Balance report (SRK 2017), with updates documented in subsequent annual reports (SRK 2017, 2018, 2019, 2020, 2021, 2022a, 2023, 2024).

3 Previous Assessments

SRK originally prepared a water and load balance (WLB) model to support the FEIS (SRK 2017). Since that time, the model has been maintained to evaluate water management needs and estimate water quality both across the Project and within downstream receptors, as well as to forecast Doris TIA levels.

Model assessments have been completed annually since 2017 (Table 1). Within previous assessments, SRK concluded that the functionality of the WLB model adequately represented the Hope Bay site.

Table 3-1: Previous WLB model assessments

Source	Monitoring Year	Calibration Changes	Key Conclusions and Model Changes	
			Water Balance	Load Balance
SRK (2017)	FEIS	▪ N/A	▪ Baseline Model	▪ Baseline Model
SRK (2018)	2017	▪ None	▪ Estimates compared well with measured elevations.	▪ Doris Process Plant not at steady state. ▪ No changes made for underestimated constituents.
SRK (2019)	2018	▪ Hydrology ▪ Processing rate ▪ Mine water flows ▪ Stage storage curves	▪ After applying updates, estimates compared well with measured elevations.	▪ Most constituents at or below detection limits, overestimated, or trending well with measured data. ▪ Updated for underestimated constituents as follows: – Doris process water: ammonia, total cyanide, free cyanide, sulfate, and the following total metals: aluminum, copper, iron, manganese, nickel, phosphorous and sodium – Doris Mine water: ammonia
SRK (2020)	2019	▪ Hydrology ▪ Processing rate ▪ Mine water flows ▪ Stage storage curves ▪ Sedimentation control ponds ▪ Degradation rates ▪ Source terms (process water, mine water)	▪ After applying updates, estimates compared well with measured elevations.	▪ Most constituents at or below detection limits, overestimated, or trending well with measured data. ▪ Updated for underestimated constituents as follows: – Degradation rates: increased ammonia degradation rate, changed total cyanide degradation rate and degradation products to free and Weak Acid Dissociable (WAD) cyanide. – Doris process water: cyanate, total and dissolved manganese – Doris Mine water: total and dissolved manganese
SRK (2021)	2020	▪ Hydrology ▪ Processing rate ▪ Mine water flows ▪ Sedimentation control ponds ▪ Source term (process water)	▪ After applying updates, estimates compared well with measured elevations.	▪ Most constituents at detection limits, overestimated, or trending well with measured data. ▪ Updated for underestimated constituents as follows: – Doris process water: total and dissolved boron
SRK (2022a)	2021	▪ Hydrology ▪ Processing rate ▪ Mine water flows ▪ Sedimentation control ponds ▪ Cryoconcentration	▪ Hydrology updates included frequency analysis on annual precipitation, undercatch (applied to Cambridge Bay data), mean annual evaporation, sublimation, runoff and climate change. ▪ After applying updates, estimated TIA water levels compared well with measured elevations.	▪ Most constituents at or below detection limits, overestimated, or trending well with measured data. ▪ No change to underestimated constituent (cyanate). ▪ Cryoconcentration: modified ice development and melt to be a function of mean daily temperature.
SRK (2023)	2022	▪ Hydrology ▪ Water management ▪ Discharge logic ▪ Processing rate ▪ Mine water flows ▪ Sedimentation control ponds ▪ Cryoconcentration	▪ Added saline water storage area ▪ Updated mine water management and discharge logic. ▪ Delayed future processing to reflect site care and maintenance status. ▪ After updates, estimated TIA water levels compared well with measured elevations.	▪ Changed Doris mine water source term to represent a dynamic input.
SRK (2024)	2023	▪ Hydrology ▪ Water management ▪ Discharge logic ▪ Mine water flows	▪ Updated mine water management and discharge logic. ▪ After updates, estimated TIA water levels compared well with measured elevations.	▪ N/A

Sources: As indicated above.

4 Model Updates

4.1 Overview

The following sections summarize the updates applied to the Hope Bay WLB model as part of the 2024 assessment.

Any inputs not discussed in this section remained as per the original model assumptions documented in the FEIS model (SRK 2017), or the previous calibration updates.

4.2 Model Functionality

- Discharge logic and inputs were updated to reflect the current operational water management strategy.
- The capacity to discharge to Roberts Bay was increased from 300 m^3/hour to 400 m^3/hour to represent the current pumping infrastructure.
- Water quality constraints were applied to the TIA and Doris mine water discharges.
- The option for blending TIA and Doris mine water discharges was also added, based on the current understanding of toxicity impacts.

4.3 Meteorology

- Measured Doris meteorological data was updated to include daily mean temperature, rainfall, and total precipitation recorded in 2024.

  The latest records from the Doris meteorological station were complete. No additional sources of data were required for gap filling.

4.4 Contact Water

- Transfer volumes from both the Sediment Control Pond (SCP) and the Contact Water Pond (CWP) to the Doris TIA (Table 4-1) were added to the historical record.

Table 4-1: Doris SCP and Madrid North CWP to TIA in 2024 (m^3)

Month	SCP to TIA	CWP to TIA
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
May	11,500	436
Jun	35,000	450

Month	SCP to TIA	CWP to TIA
Jul	42,700	150
Aug	28,800	380
Sep	13,100	0
Oct	0	0
Nov	0	0
Dec	0	0
Annual	131,100	1,420

Sources: ~SRK Consulting/NA CAPR003067 Hope Bay 2024 Site Water Management Support – Internal/2_PermitBalance/Inputs/ HopeBay_CAPR003067_2024WLB_Inputs_R00_ajb_nf_fgg.xlsx

Note:

There is typically minimal or no pumping from the ponds to the TIA during the winter months (approximately October to May, annually).

4.5 Mine Water and Roberts Bay Discharge

- Mine dewatering totalled 632,000 m^3 in 2024, which was sourced solely from the Doris Mine. No dewatering of the Madrid North Mine occurred that year.
- Doris mine water was managed as follows (Table 4-2):
  - 535,800 m^3 discharged to Roberts Bay (through the marine discharge line).
  - 62,400 m^3 sent to the SWS
  - 33,900 m^3 sent to the TIA.

Table 4-2: Mine water flows in 2024 (m^3)

Month	Doris Mine				Madrid North Mine
	Roberts Bay	Doris TIA	SWS	Total	
Jan	18,500	100	34,500	53,000	0
Feb	54,200	0	0	54,200	0
Mar	60,700	400	0	61,000	0
Apr	52,200	100	0	52,200	0
May	54,300	100	0	54,400	0
Jun	55,800	1,000	0	56,700	0
Jul	43,100	9,800	0	52,900	0
Aug	31,300	14,600	0	45,800	0
Sep	53,700	1,400	0	55,100	0
Oct	28,300	6,500	9,200	43,900	0
Nov	30,600	100	18,800	49,500	0
Dec	53,300	0	0	53,300	0

Month	Doris Mine				Madrid North Mine
	Roberts Bay	Doris TIA	SWS	Total	
Annual	535,800	33,900	62,400	632,000	0

Sources: ~SRK Consulting/NA CAPR003067 Hope Bay 2024 Site Water Management Support – Internal/2_PermitBalance/Inputs/ HopeBay_CAPR003067_2024WLB_Inputs_R00_ajb_nf_fgg.xlsx

- Water transferred from the SWS to the TIA total 268,500 m^3 (Table 4-3).

Table 4-3: SWS to TIA in 2024 (m^3)

Month	SWS to TIA
Jan	0
Feb	0
Mar	0
Apr	0
May	14,300
Jun	115,500
Jul	77,800
Aug	0
Sep	0
Oct	0
Nov	0
Dec	0
Annual	207,300

Sources: ~SRK Consulting/NA CAPR003067 Hope Bay 2024 Site Water Management Support – Internal/2_PermitBalance/Inputs/ HopeBay_CAPR003067_2024WLB_Inputs_R00_ajb_nf_fgg.xlsx

4.6 Water Quality

- Agnico provided SRK with updated water quality sampling records for the Doris TIA and reclaim pump station TL-1.

5 2024 Assessment

5.1 Overview

The following sections summarize the tasks completed by SRK as part of the latest model assessment. Table 5-1 summarizes the scenarios used by SRK to assess the validity of the model performance.

Table 5-1: Model evaluation scenarios

Model Scenario	Description
Estimated – 2023	Forecasted model results for 2024 were generated using the previous version of the model, calibrated to 2023 data (SRK 2024).
Estimated – 2024	Hindcasted model results for 2024 were generated after updating the model using 2024 measured data (e.g., meteorology, mine water, process rate, sedimentation flows, Roberts Bay discharge).

Sources: Compiled in text.

5.2 Water Balance

The validity of the water balance performance was assessed by comparing measured and modeled water levels at the Doris TIA.

After incorporating recorded site data (e.g., flows, precipitation, processing rate) from the past year, measured elevations were compared to estimates from the calibrated SRK model for the same period.

Changes to the model were applied stepwise to iteratively assess the impacts to model results, as follows:

- Model updates:
  - Incorporate updated meteorology, mine water flows, surface water exchanges, and Roberts Bay discharge records.
  - Recalibrate runoff coefficients and snowmelt model parameters.
- Results compilation:
  - Newly calibrated values were reviewed and accepted.

5.3 Load Balance

Like the water balance, validity of the load balance was assessed based on agreement between measured and modelled water quality at the Doris TIA and reclaim pump station (TL-1).

Measured water quality data from 2024 was first compared to model estimates from 2023 (Table 5-2).

Constituents were grouped according to the goodness-of-fit between estimated and measured water quality results for the Doris TIA. The following constituent groups were previously identified:

- Conservative: model estimates are generally overestimated relative to measured values.
- Trending Well: model estimates show strong agreement with measured values.
- Detection limit: when model estimates fall below method detection limit.
- Underestimated: model estimates generally plot below measured values.

Table 5-2: Load balance initial screening assessment

Classification	Constituents	Comparison to 2023 Model Estimate
Conservative	F, nitrate (NO_3), nitrite (NO_2) Dissolved Metals: Al, Sb, As, Ba, Cd, Ca, Co, Cu, Fe, Pb, Li, Hg, Mo, Ni, Se, Ag, Tl, Zn, P Total Metals: Al, Sb, As, Ba, Cd, Ca, Co, Cu, Fe, Pb, Li, Hg, Mo, Ni, Se, Ag, Tl, Zn, P	Model estimates were overestimated relative to measured values. Modelled values are reflective of conservative assumptions. *Note: some values may be at or below method detection limit and slightly above model estimates. These constituents were still considered to be classified "conservative".*
Trending Well	Total dissolved solids (TDS), chloride (Cl), sulfate (SO_4) Dissolved Metals: B, Mg, Mn, Na, U Total Metals: B, Mg, Mn, Na, U	Model estimates show strong agreement with measured values.
Detection Limit	Free cyanide (CN-F), WAD cyanide (CN-WAD), thiocyanate (SCN) Dissolved Metals: Be, Cr, V Total Metals: Be, Cr, V	Model estimates fell below the respective method detection limits.
Underestimated	Ammonia (NH4), total cyanide (CN-T), cyanate (CNO)	Model estimates were lower than measured values. Discussion and/or corrective actions detailed in subsequent sections.

Sources: ~SRK Consulting/NA CAPR002490/Internal/6_AnnualWLBReview/HopeBay_AnnualWLBReview_CAPR002490_rev01_nf.xlsm

Notes:

Water quality plots shown in Attachment 1 include measured data for Roberts Bay discharge which, at times, can reflect Doris TIA (TL-1), treated Doris Mine water (TL-12B), or a mixed stream of both Doris TIA and mine water.

Changes to the model were applied as follows:

- Estimated concentrations were first compared to measured Doris TIA water quality data at station TL-1 (Table 5-2).
- Source terms and load balance functionality were then reviewed to determine potential impacts to those constituents that were found to be underestimated.
- Underestimated values, or values that were overestimated and above permit limits, were then assessed individually and adjusted based on measured chemistry in either process water, mine water, and/or the Doris TIA.

6 Model Evaluation

6.1 Water Balance

Measured Doris TIA water levels in 2024 were compared to both:

- 2023 model projections (i.e., Estimated Elevation – 2023, Table 5-1)
- 2024 updated projections (i.e., Estimated Elevation – WB, Table 5-1)

Monthly mean water levels for each scenario are summarized in Table 6-1.

Table 6-1: Water balance evaluation – Doris TIA water levels

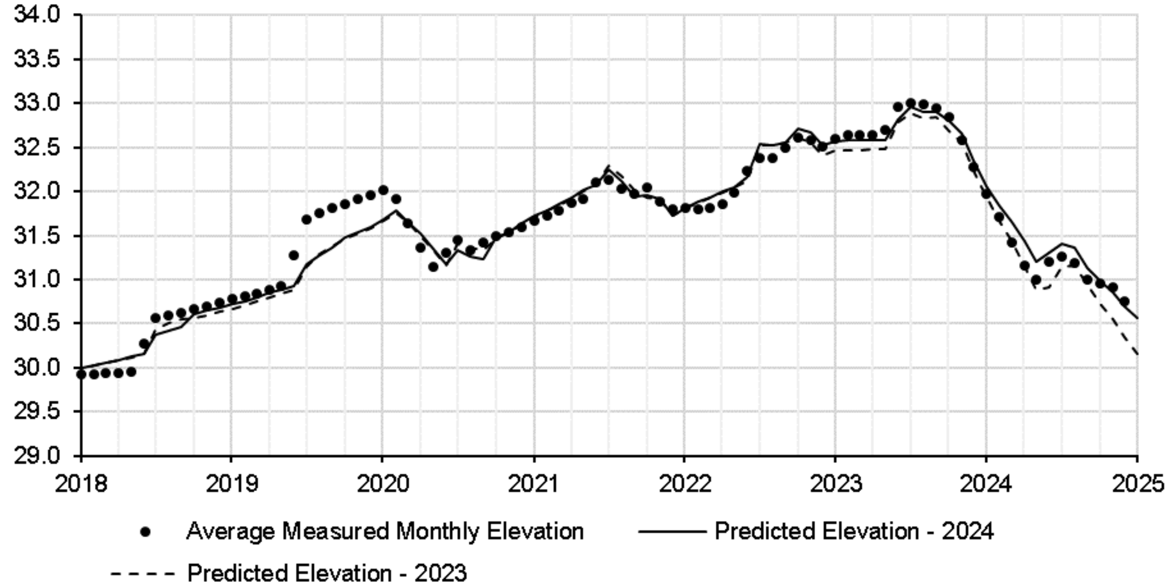
Month	Doris TIA Water Level (m)		
	Monthly Mean Level	**Estimated – 2023**	**Estimated – WB**
Jan	32.0	31.9	32.1
Feb	31.7	31.7	31.8
Mar	31.4	31.4	31.7
Apr	31.2	31.2	31.4
May	31.0	30.9	31.2
Jun	31.2	30.9	31.3
Jul	31.3	31.1	31.4
Aug	31.2	31.2	31.4
Sep	31.0	30.9	31.1
Oct	31.0	30.7	31.0
Nov	30.9	30.6	30.9
Dec	30.8	30.3	30.7

Sources: ~SRK Consulting/NA CAPR003067 Hope Bay 2024 Site Water Management Support – Internal/2_PermitBalance/Inputs/ HopeBay_CAPR003067_2024WLB_Inputs_R00_ajb_nf_fgg.xlsx

Model results indicate the following:

- Following re-calibration, estimated water levels were slightly overestimated, relative to measured data between January and March 2024, to a maximum discrepancy of approximately 0.3 m.
- Re-calibration results then gradually improved, with modelled and measured values eventually reaching agreement (within 0.1 m) from September 2024 onwards.

Based on visual inspection (Figure 6-1), the updated model calibration appeared to demonstrate a strong agreement with measured data in 2024.



Sources: ~/NACAPR003067/Internal/2_PermitBalance/Inputs/HopeBay_CAPR003067_2024WLB_Inputs_R00_ajb_nf_fgg.xlsx

Figure 6-1: Modelled and estimated Doris TIA water levels (2018 – 2024)

SRK concluded that no further action was necessary to improve model performance.

6.2 Load Balance

6.2.1 Results

Attachment 1 illustrates load balance water chemistry estimates relative to measured water quality data at pump station TL-1. These graphs show several model estimates, representing the evaluation scenarios described in Table 5-1.

These graphs also include water chemistry measured at Roberts Bay discharge station (RBD1), which can reflect either Doris TIA water (TL-1), Doris Mine water (TL-12B) or a combination of the two sources.

After the initial screening assessment (Table 5-2), no calibration adjustments were made, and constituent classifications remain as originally identified.

6.2.2 Comparison to MDMER

Measured Water Quality

Doris TIA water discharged to Roberts Bay in 2024 (Table 4-2) is subject to Federal Metal and Diamond Mining Effluent Regulations (MDMER 2021) under the Fisheries Act. Updated water quality projections for the Doris TIA were compared to MDMER limits in Attachment 1. Measured data were compared to both the MDMER maximum authorized monthly mean concentrations (Table 6-2) and maximum authorized concentrations in a grab sample (Table 6-3).

Table 6-2: Maximum authorized monthly mean concentrations at the Doris TIA (mg/L)

Constituent	MDMER	Doris TIA	Month of Occurrence	Percent of MDMER Limit
TSS	15	**24**	March	**161%**
As_T	0.3	0.0025	October	0.8%
Cu_T	0.3	0.021	May	7%
CN_T	0.5	0.07	July	15%
Pb_T	0.1	0.00037	March	0.4%
Ni_T	0.5	0.236	December	47%
Zn_T	0.5	0.019	August	4%
NH_3-Un	0.5	0.005	September	1%

Sources: ~SRK Consulting/NA CAPR002490/Internal/6_AnnualWLBReview/HopeBay_AnnualWLBReview_CAPR002490_rev01_nf.xlsm

Table 6-3: Maximum authorized grab sample concentrations at the Doris TIA (mg/L)

Constituent	MDMER	Doris TIA	Date of |Occurrence	Percent of MDMER Limit
TSS	30	**47.8**	2024-01-09	**159%**
As_T	0.6	0.00282	2024-10-15	0.5%
Cu_T	0.6	0.0324	2024-05-14	5%
CN_T	1	0.2	2024-01-23	20%
Pb_T	0.2	0.00055	2024-04-02	0.3%
Ni_T	1	0.854	2024-12-24	85.4%
Zn_T	1	0.0259	2024-08-06	2.6%
NH_3-Un	1	0.006	2024-01-09	0.6%

Sources: ~SRK Consulting/NA CAPR002490/Internal/6_AnnualWLBReview/HopeBay_AnnualWLBReview_CAPR002490_rev01_nf.xlsm

For both evaluation criteria, only TSS in the Doris TIA was elevated relative to MDMER. The maximum monthly averaged concentration in the Doris TIA occurred in March 2024, while the maximum grab sample concentration occurred in January.

Treatment of discharge for TSS began in 2023, allowing for releases from the TIA year-round, including during periods with elevated TSS. During active discharge in 2024, water quality in the Roberts Bay discharge line (measured at RBD1) was compliant with MDMER.

All other constituents were measured below the respective MDMER limits.

Modelled Water Quality

Updated water quality projections were also compared to MDMER limits to evaluate potential exceedances that may occur in the future. MDMER limits were also presented alongside estimates in Attachment 1.

The five constituents (i.e., TSS, total arsenic, total copper, total cyanide, un-ionized ammonia) that were identified as of potential concern in previous reviews will continue to be monitored closely.

Results were as follows:

- TSS:
  - A mass balance model conforming to a daily timestep is limited in its ability to accurately estimate TSS.
  - Since 2023, treatment systems for TSS removal have been in use for both Doris mine water and TIA discharges.
  - TSS will continue to be monitored and the discharge to Roberts Bay will comply with MDMER.
- As_T:
  - Concentrations in the Doris TIA in 2024 were less than 1% of the MDMER limits for both maximum authorized monthly mean concentrations and maximum authorized concentrations in a grab sample.
  - The need for arsenic treatment will be reassessed should Madrid ore processing recommence.
- Cu_T:
  - Updated estimates remain below the proposed MDMER limit during discharge periods (open water season).
  - Copper concentrations will continue to be monitored, and if arsenic treatment is required, copper treatment may also be considered at that time.
- CN_T:
  - Updated estimates remain below the proposed MDMER limit during discharge periods (open water season).
  - The model estimates concentrations will increase above the MDMER limit in Feb 2028. Total cyanide concentrations in the Doris TIA originate from iron cyanide complexes which readily degrade by photolysis.
  - Modelled peaks for total cyanide occur in the spring before longer sunlight days commence photolysis. Measured cyanide concentrations have demonstrated that cyanide readily undergoes degradation in the Doris TIA during the open water season.
- Pb_T
  - Updated estimates remain below the MDMER limits and are not of concern.

- Ni_T
  - Updated estimates remain below the MDMER limits and are not of concern.
- Zn_T
  - Updated estimates remain below the MDMER limits and are not of concern.
- NH_3-Un
  - Un-ionized ammonia is both pH and temperature dependent and currently not included in the model. Nitrogen speciation does not act conservatively and is not suitable for mass balancing.
  - Agnico is currently evaluating treatment solutions to address un-ionized ammonia if necessary.

6.2.3 Nitrogen Speciation

Since 2022, projected ammonia concentrations have compared well to measured values during the annual freshet (approximately May to July) but have otherwise been underestimated (within 20%) by the load balance model.

Source terms for contributing flows were reviewed by SRK and found to be consistent with measured data for each location. Total cyanide and cyanate were also underestimated in 2024, although no reagents were added to the Doris TIA. Overall, the ammonia, cyanide, and cyanate concentrations were lower than those observed during ore production, and the degradation factors applied were developed under higher concentrations. For these reasons, no further action was taken.

Free cyanide, WAD cyanide, and thiocyanate were measured at or below method detection limits in 2024.

6.2.4 Method Detection Limits

Measured concentrations of total and dissolved beryllium, chromium, and vanadium were at or below method detection limits in 2024.

Method detection limits for some constituents continue to be higher than the respective model estimates. As in past assessments, no further model modification was made.

7 Summary

7.1 Overview

Overall, the functionality of the WLB model appears to be well calibrated to observed conditions at Hope Bay in 2024.

7.2 Water Balance

After incorporating 2024 recorded data, estimated water levels from the water balance showed strong agreement with measured levels at the Doris TIA.

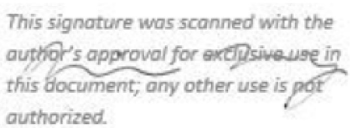
7.3 Load Balance

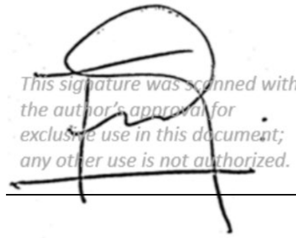
The load balance calibration from 2023 showed strong agreement with the 2024 measured water quality data at the Doris TIA. As such, no changes were made to the load balance.

Additionally:

- There were no MDMER exceedances for Doris TIA water that was discharged to Roberts Bay between May to December 2024.
- Five constituents (TSS, total arsenic, total copper, total cyanide, and un-ionized ammonia) were previously identified as constituents of potential concern regarding MDMER limits applied to mine discharges. These will continue to be monitored throughout 2025.
- Forecasted water quality will be used to evaluate the need for treatment before water quality issues arise.

Regards,
SRK Consulting (Canada) Inc.

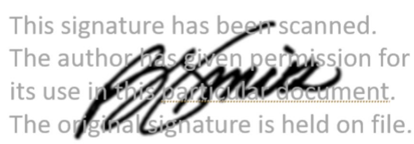




Nina Feng, M.Sc., PEng (NT/NU)
Consultant (Water Management)

Federico Giurich
Consultant (Water Resources)

Reviewed by:



Brandon Smith, M.Eng., PEng (NT/NU)
Principal Consultant (Water Management)

Attachments:

Attachment 1 Annual WLB Assessment – 2024 Plots

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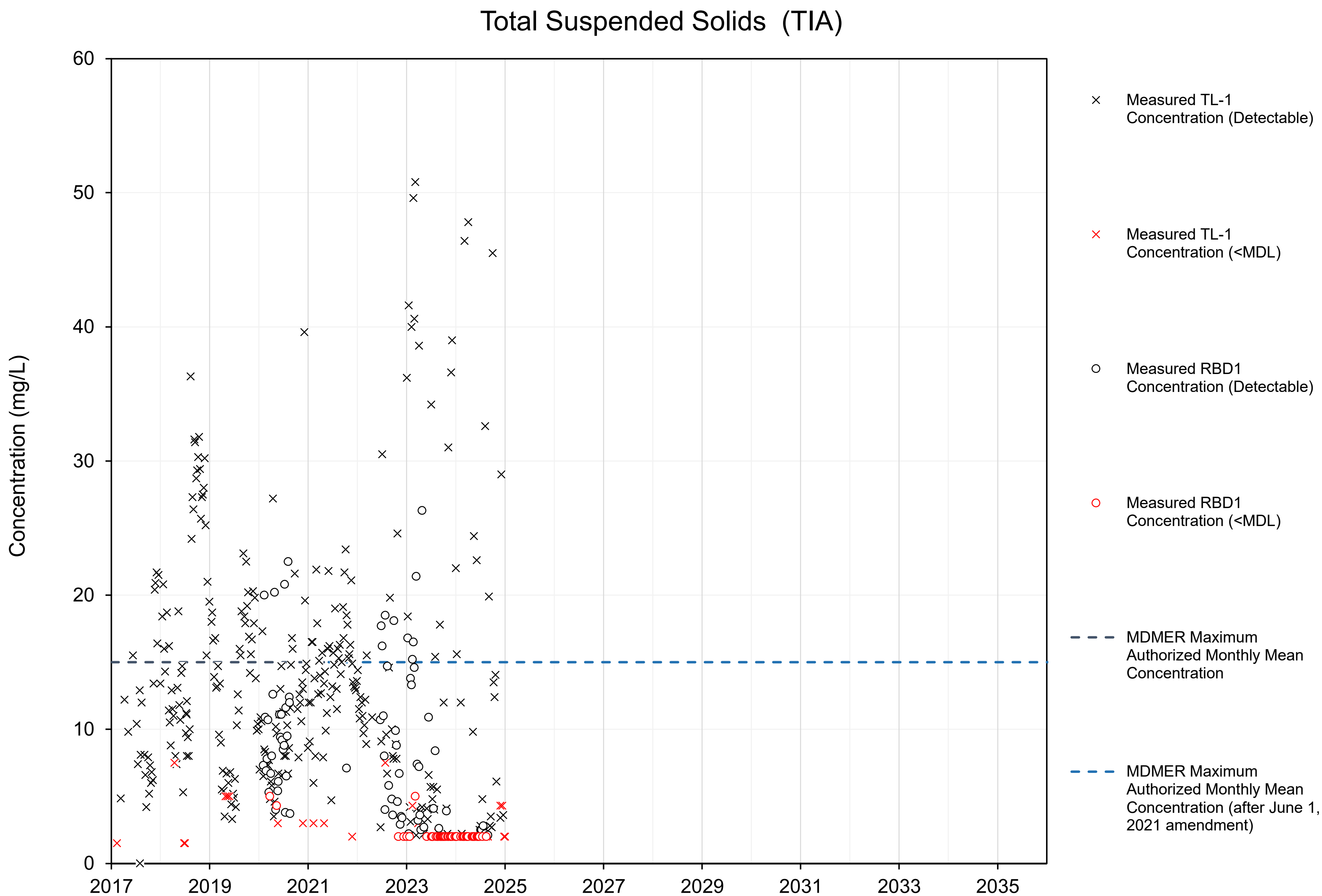
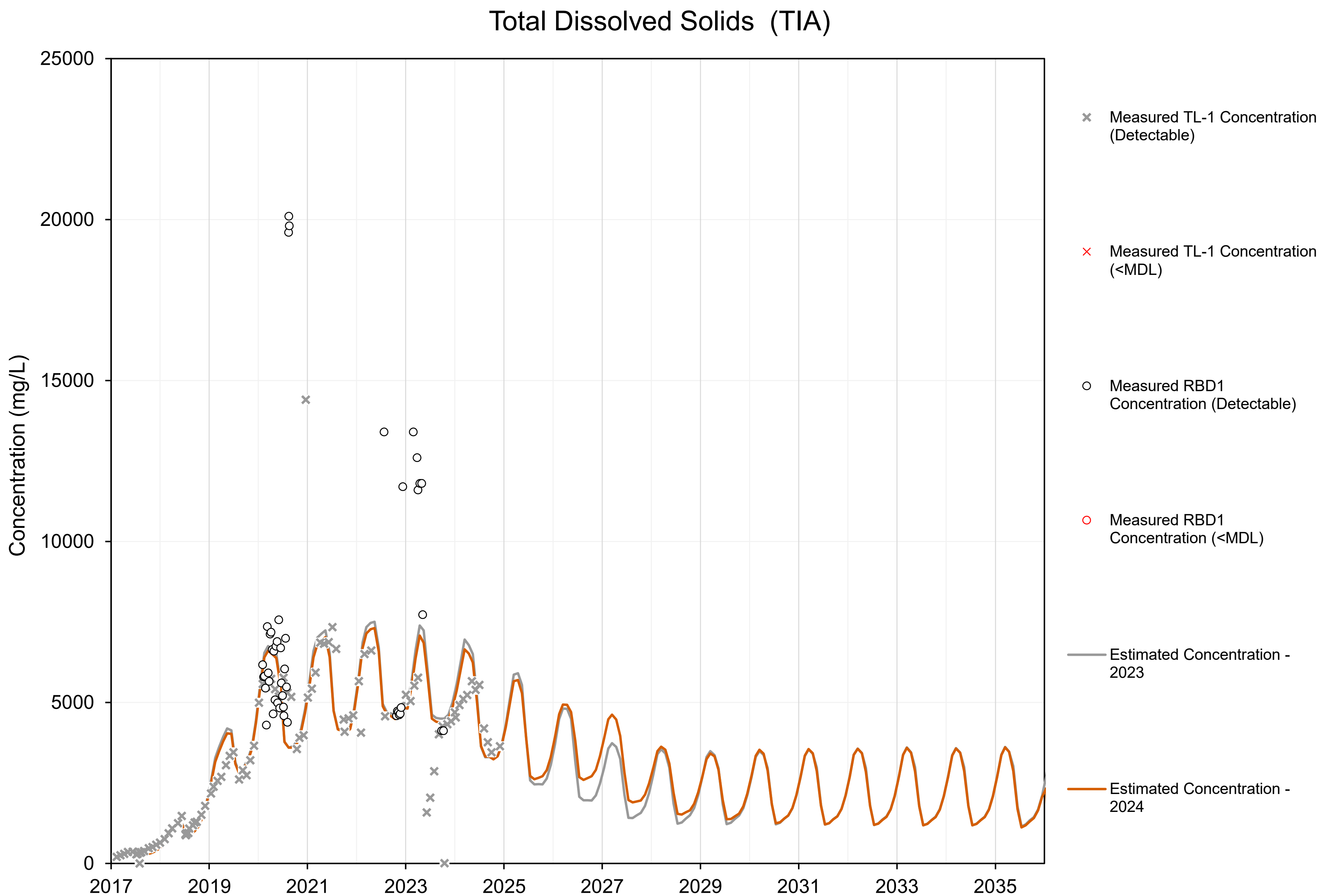
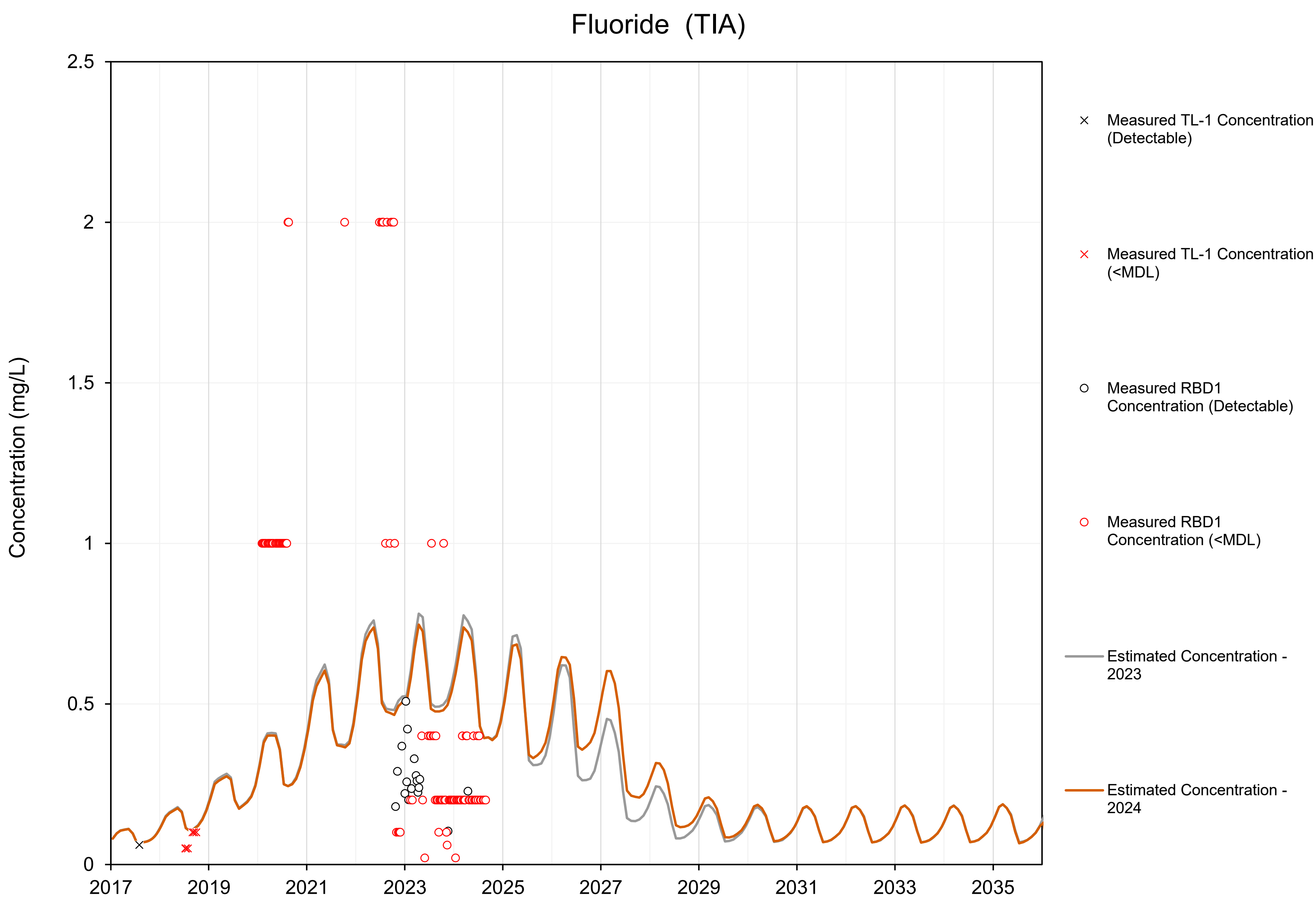
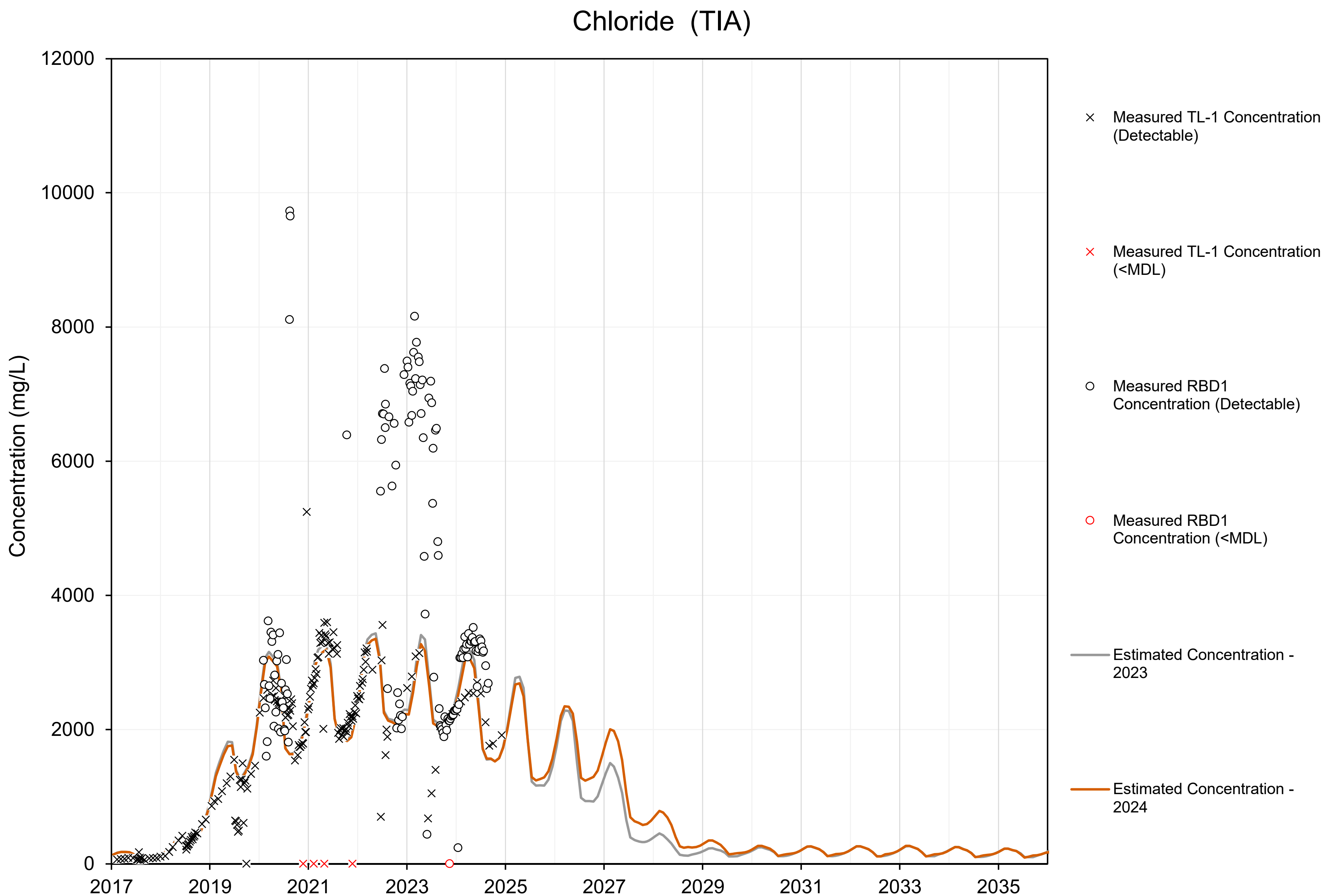
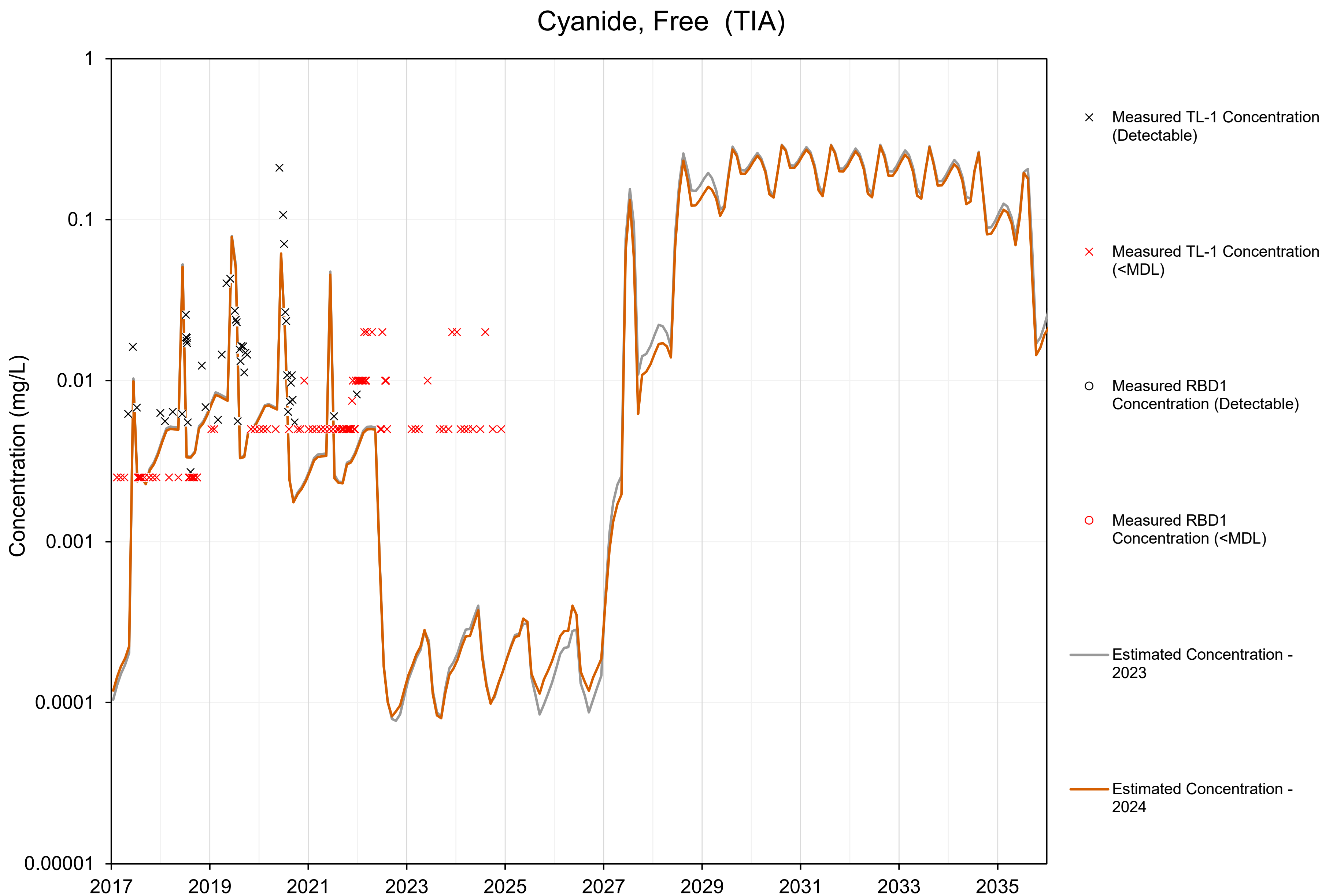
Attachment 1 Annual WLB Assessment – 2024 Plots

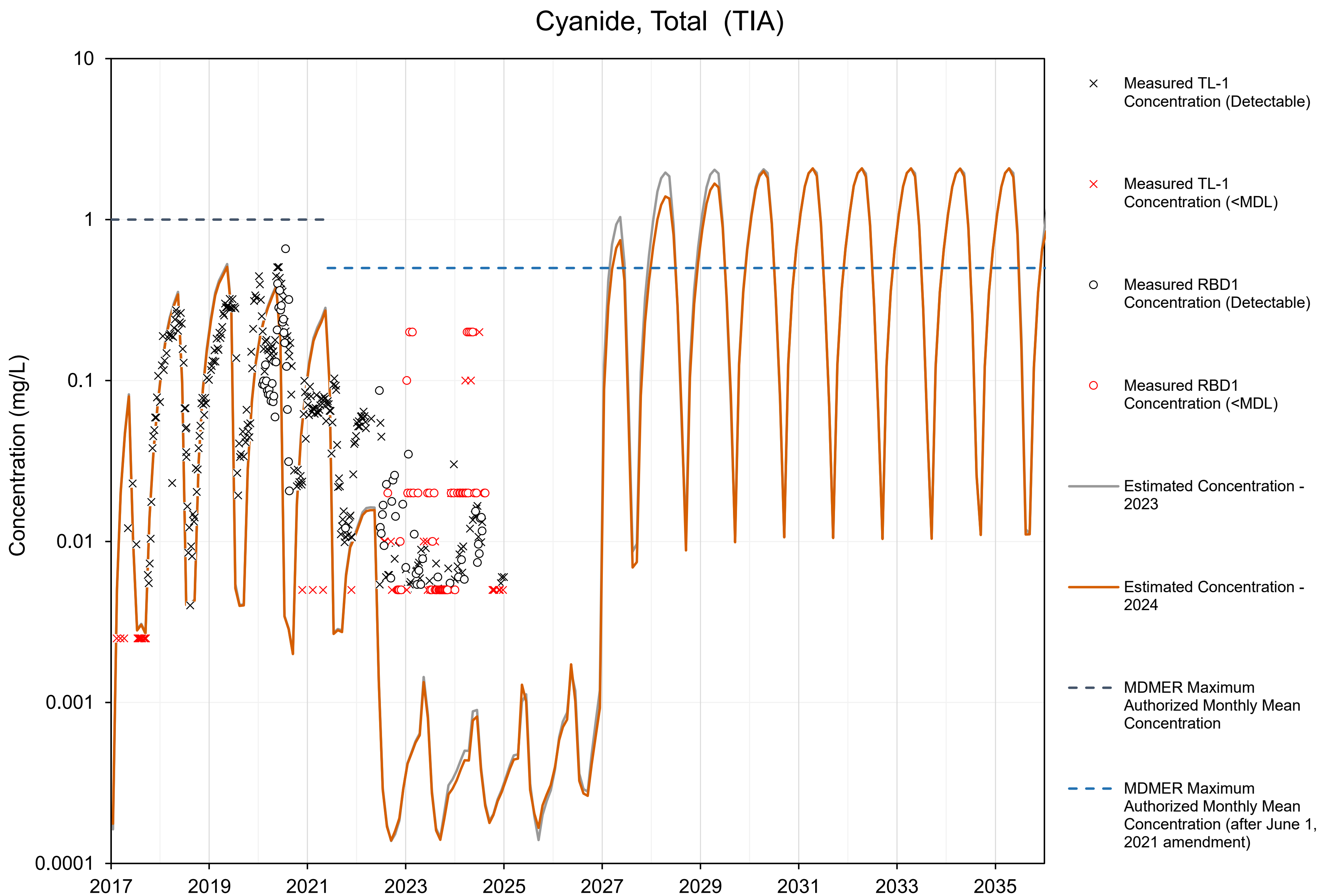

Total Suspended Solids (TIA)
Concentration (mg/L)
0
10
20
30
40
50
60
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
MDMER Maximum Authorized Monthly Mean Concentration
MDMER Maximum Authorized Monthly Mean Concentration (after June 1, 2021 amendment)

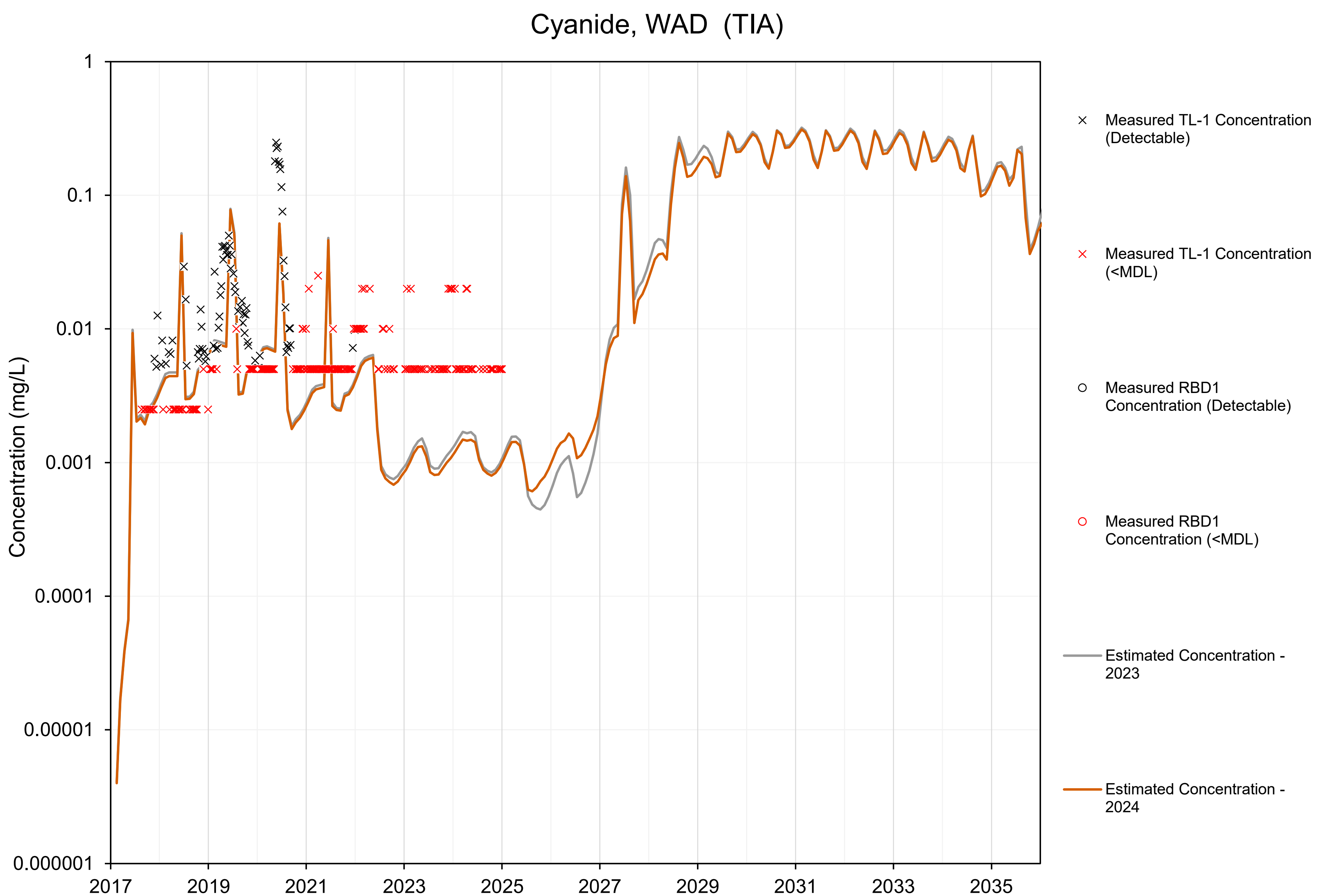

Total Dissolved Solids (TIA)
Concentration (mg/L)
25000
20000
15000
10000
5000
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

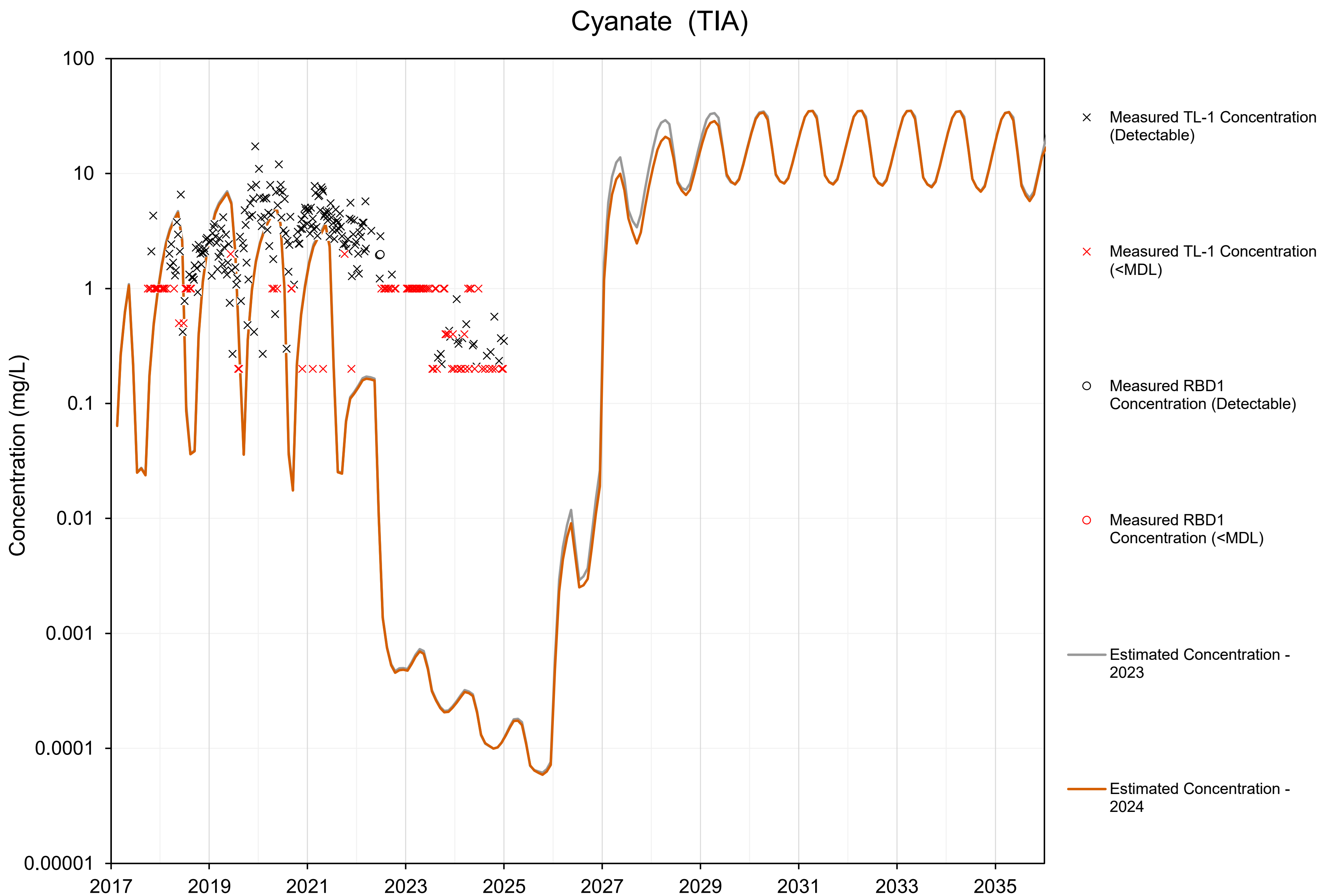

Fluoride (TIA)
Concentration (mg/L)
2.5
2
1.5
1
0.5
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

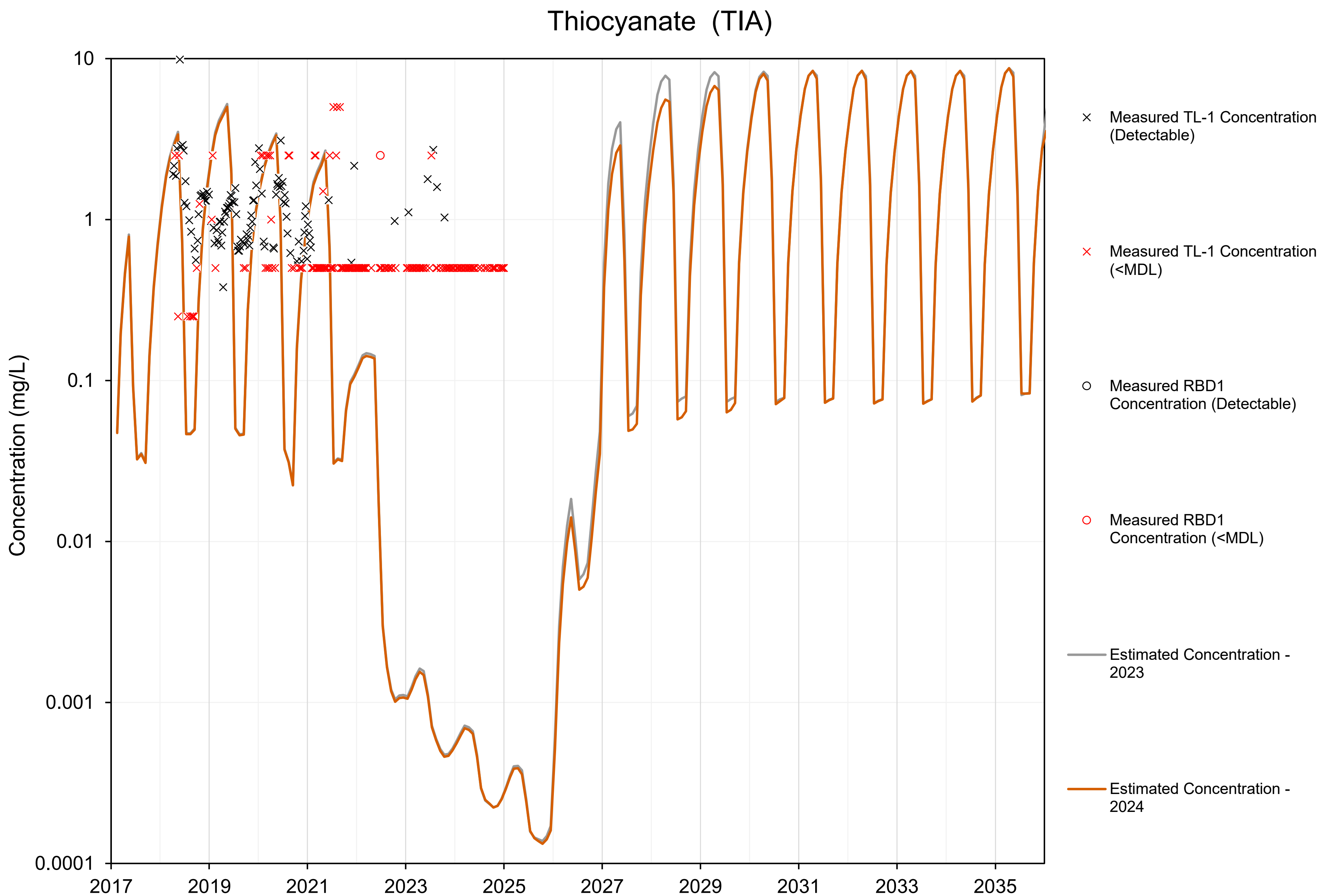

Chloride (TIA)
Concentration (mg/L)
12000
10000
8000
6000
4000
2000
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

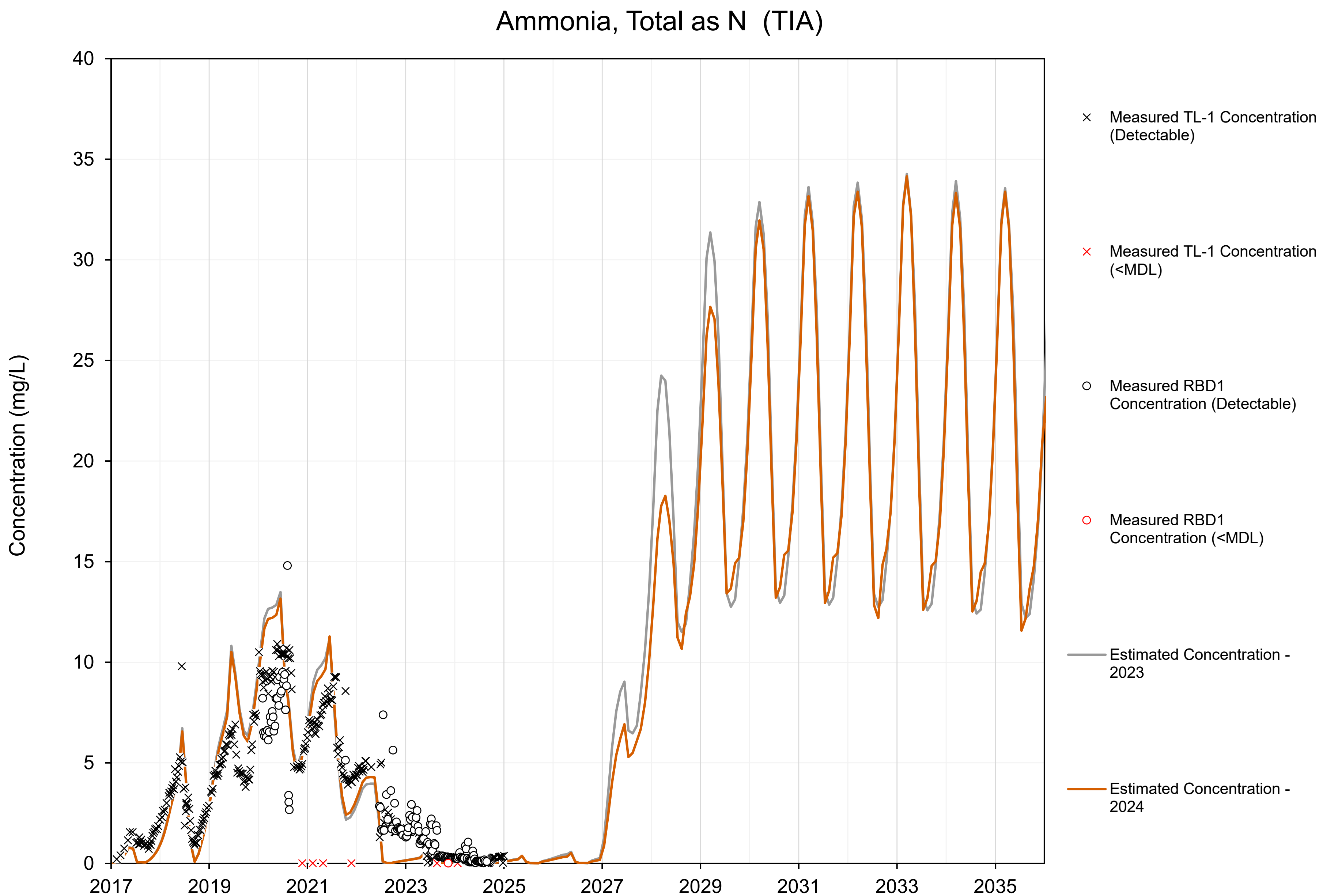

Cyanide, Free (TIA)
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
0.00001
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

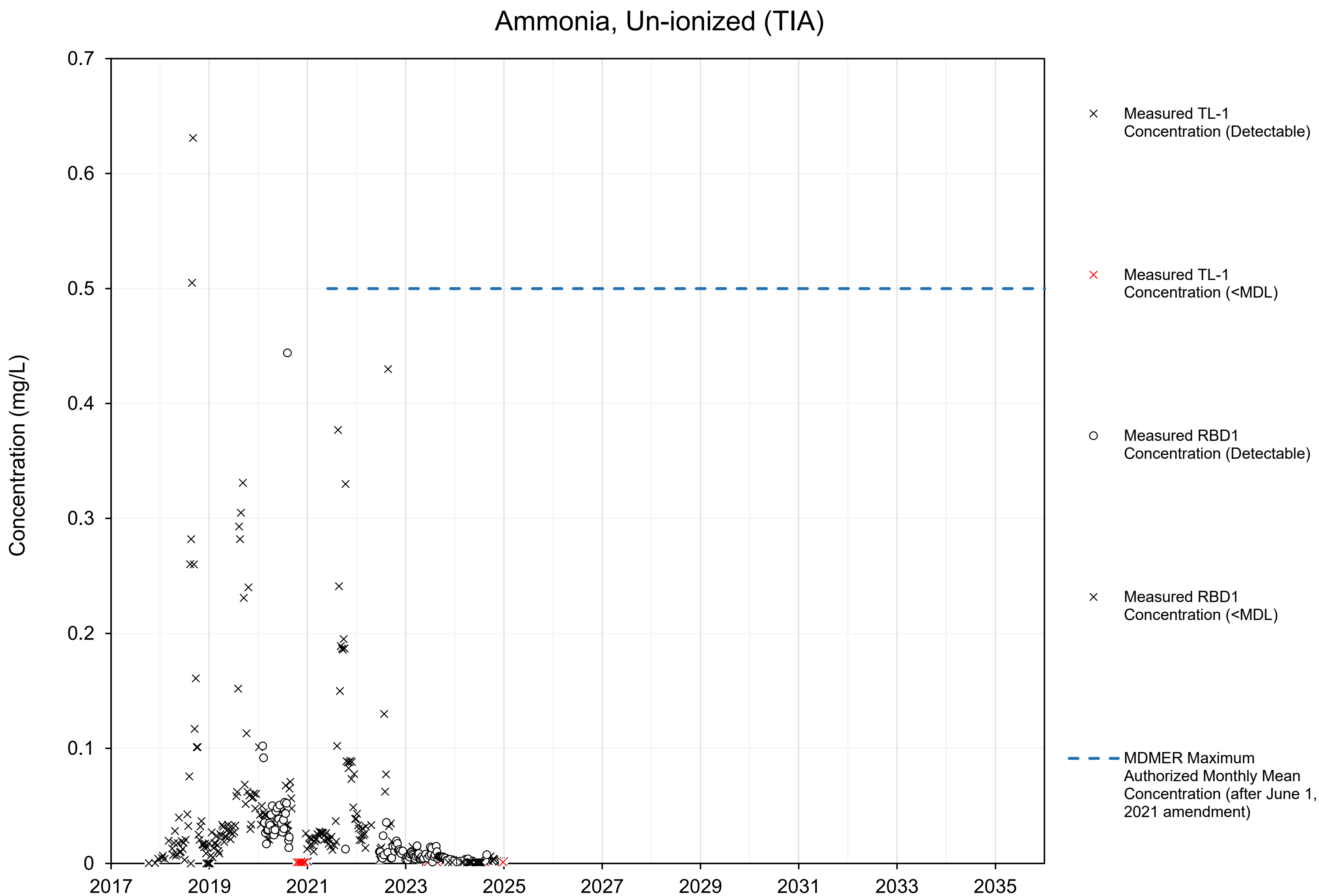

Cyanide, Total (TIA)
Concentration (mg/L)
10
1
0.1
0.01
0.001
0.0001
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024
MDMER Maximum Authorized Monthly Mean Concentration
MDMER Maximum Authorized Monthly Mean Concentration (after June 1, 2021 amendment)

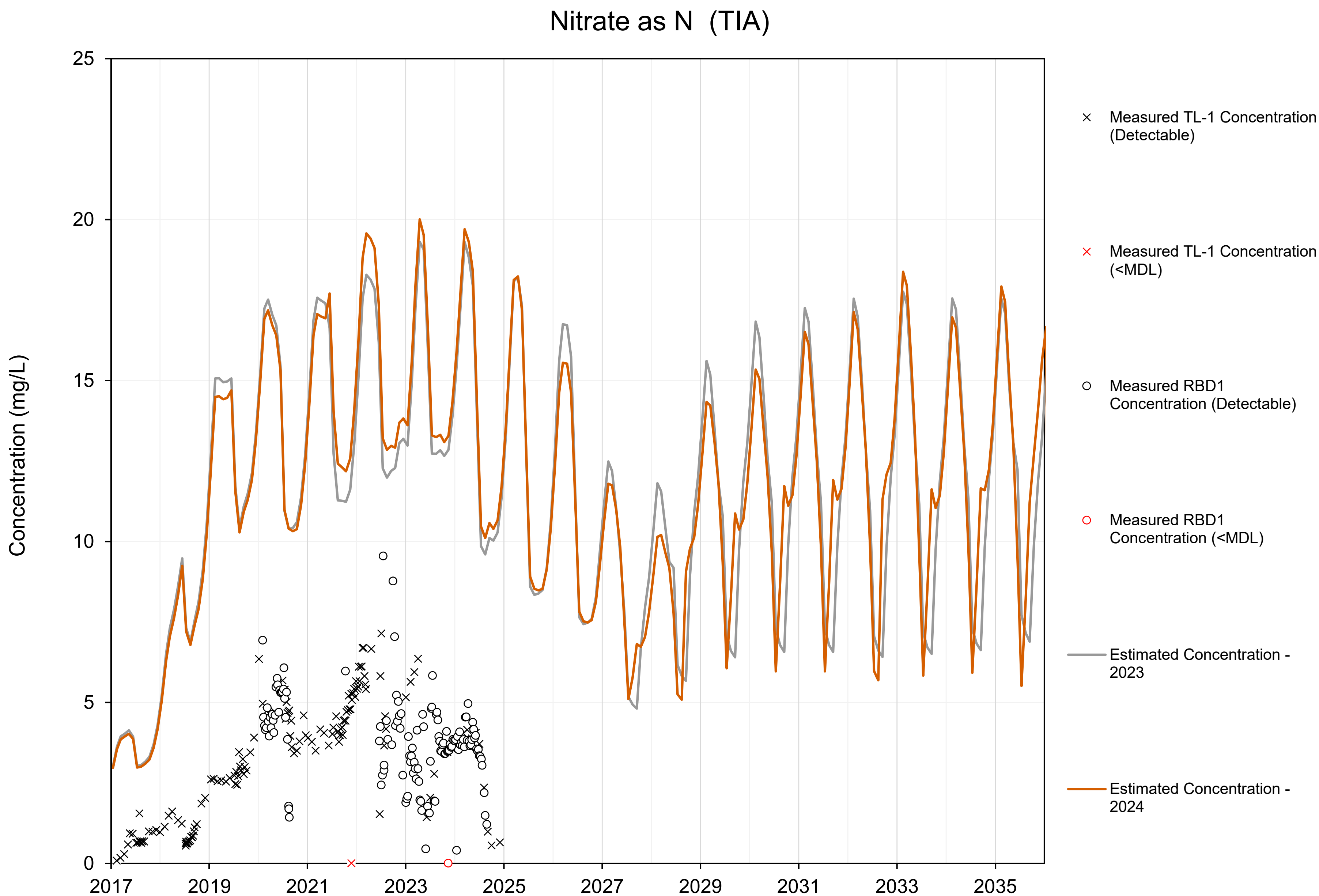

Cyanide, WAD (TIA)
Concentration (mg/L)
1
0.1
0.01
0.001
0.0001
0.00001
0.000001
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

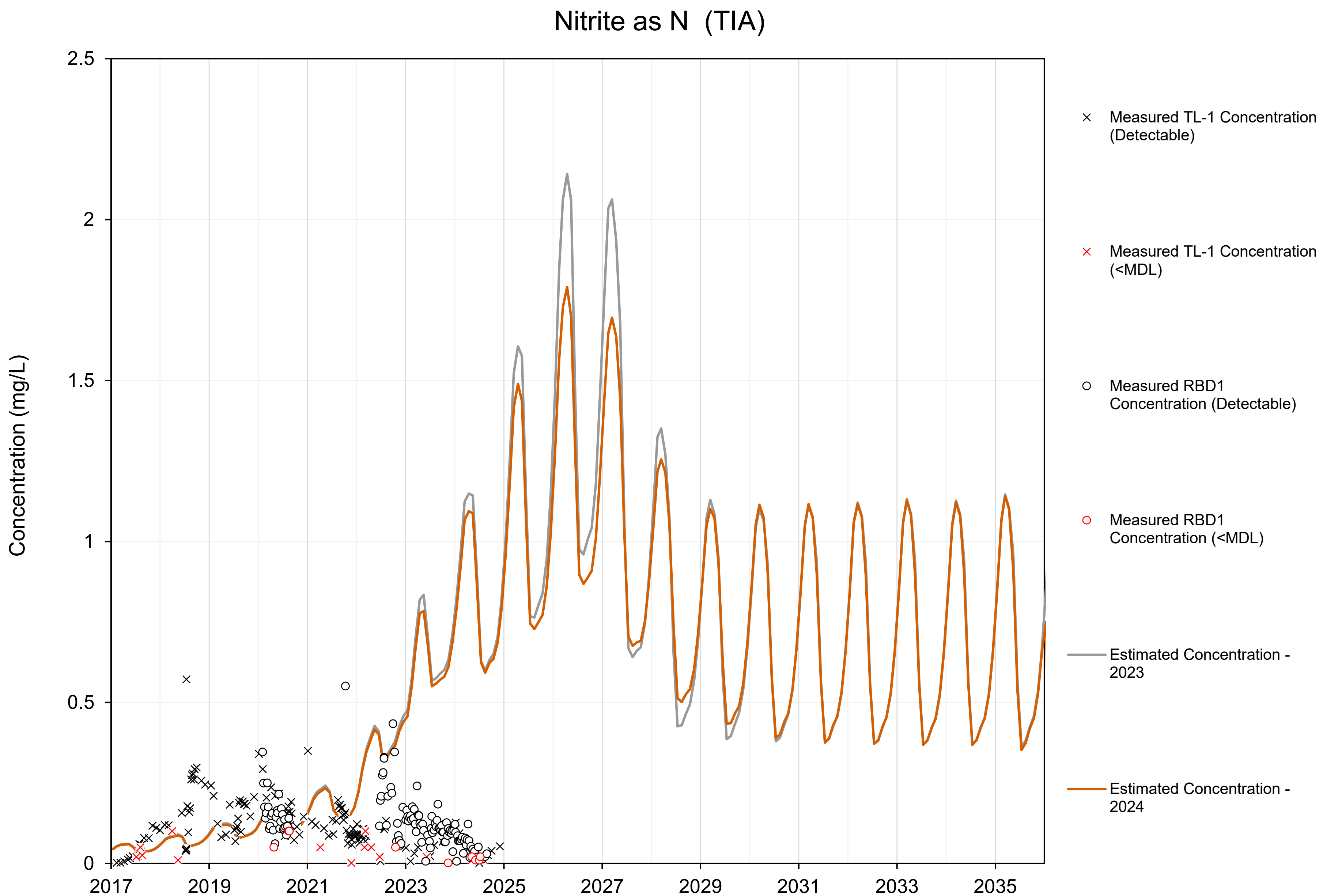

Cyanate (TIA)
Concentration (mg/L)
100
10
1
0.1
0.01
0.001
0.0001
0.00001
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

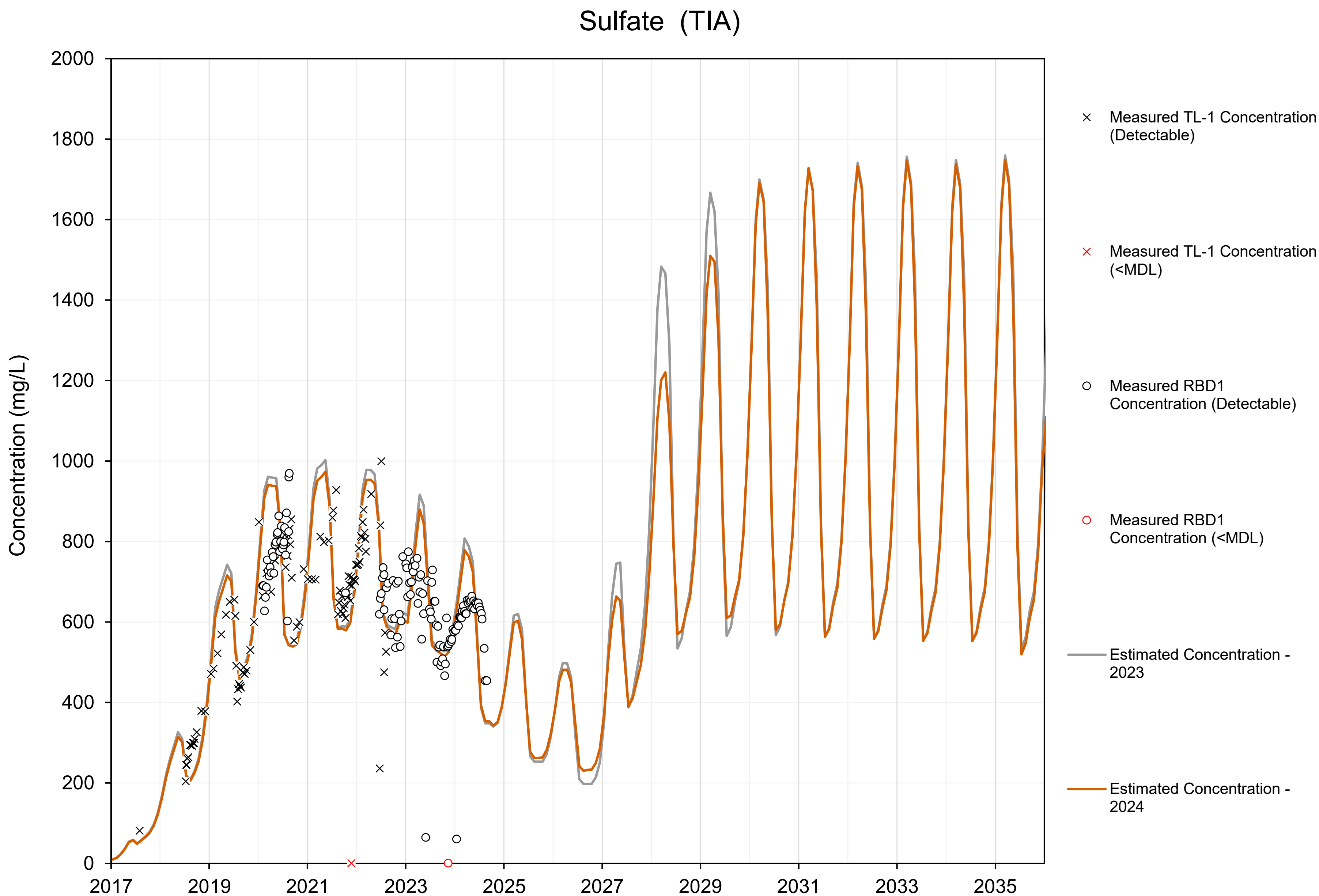

Thiocyanate (TIA)
Concentration (mg/L)
10
1
0.1
0.01
0.001
0.0001
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

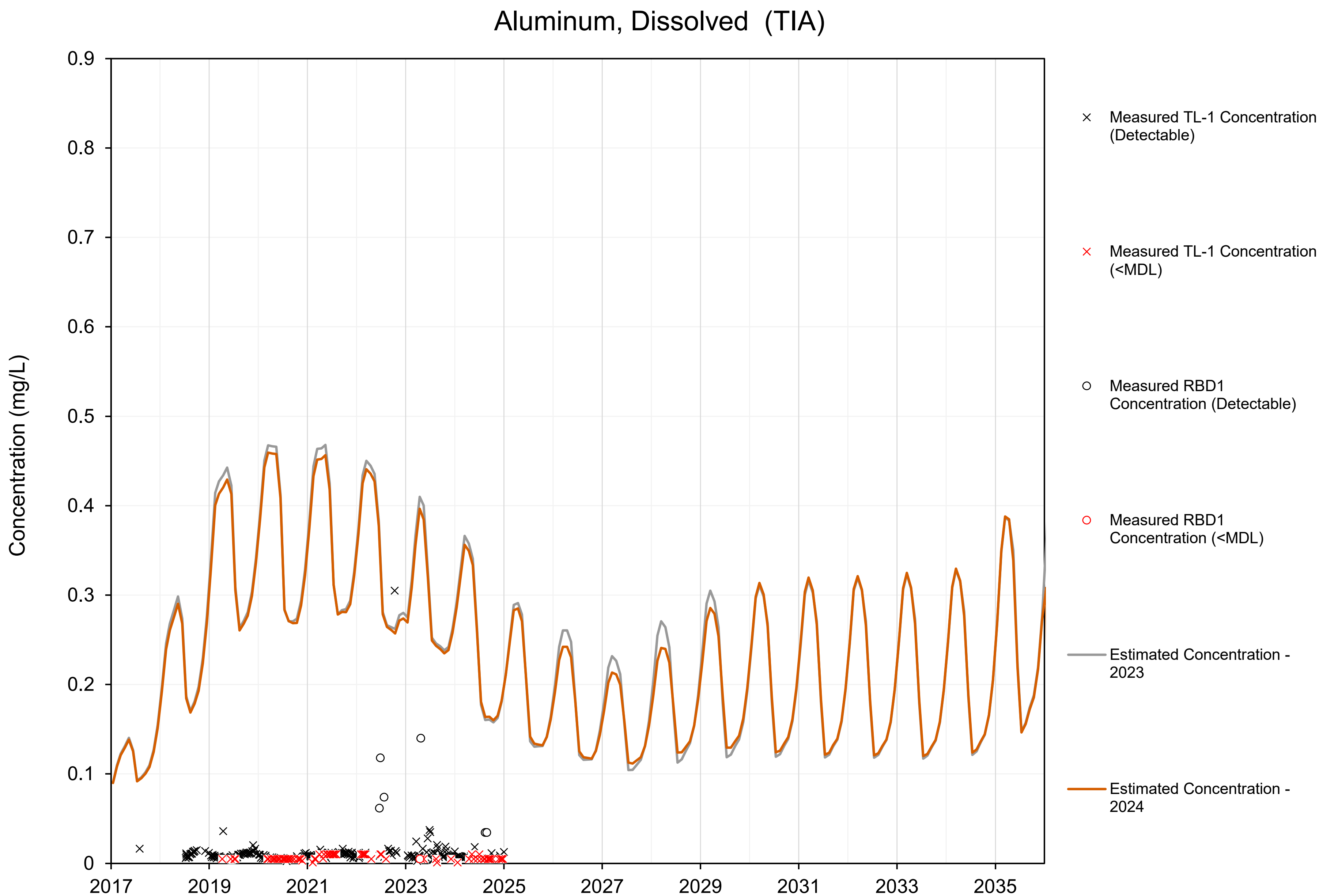

Ammonia, Total as N (TIA)
Concentration (mg/L)
0
5
10
15
20
25
30
35
40
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

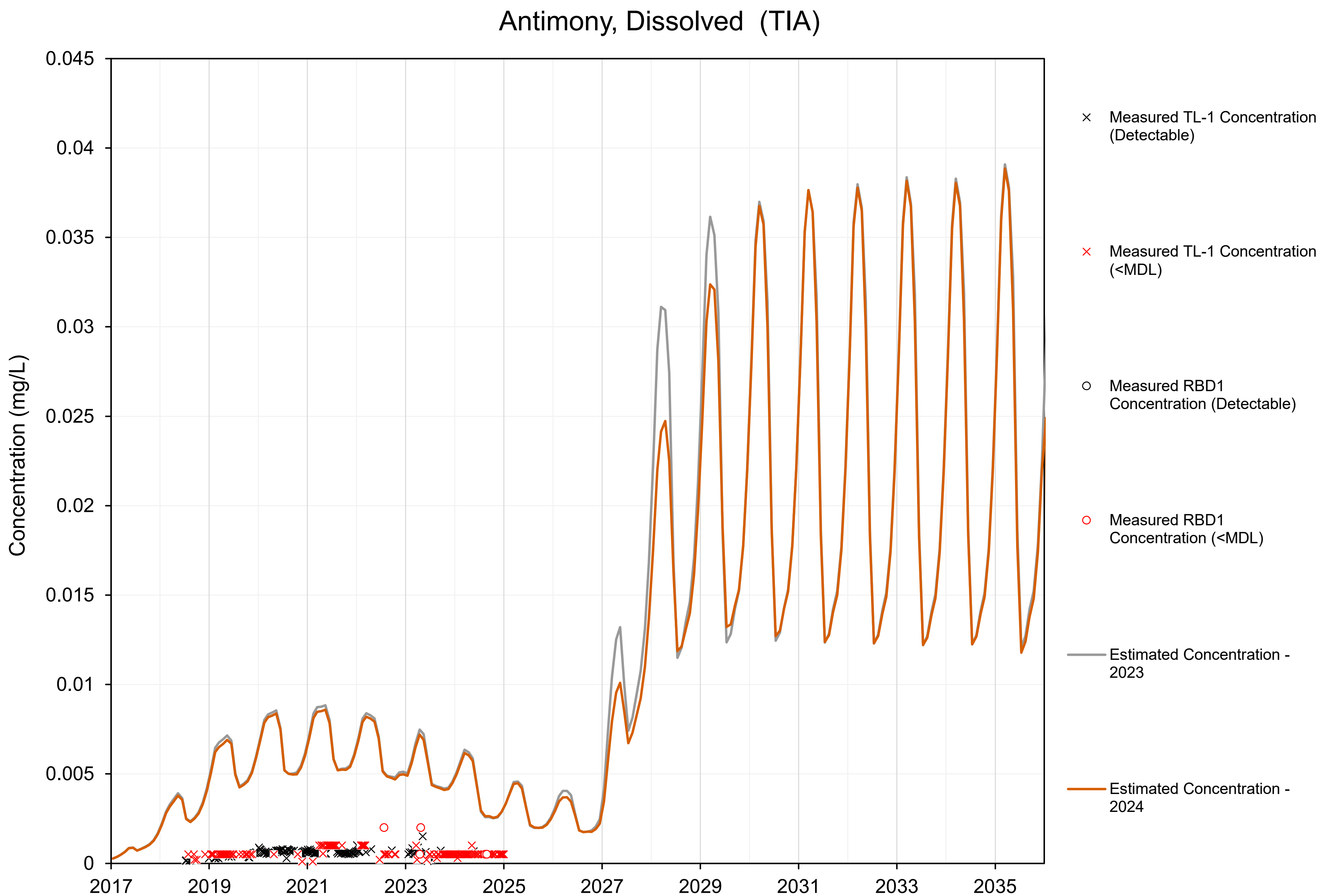

Ammonia, Un-ionized (TIA)
Concentration (mg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
MDMER Maximum Authorized Monthly Mean Concentration (after June 1, 2021 amendment)

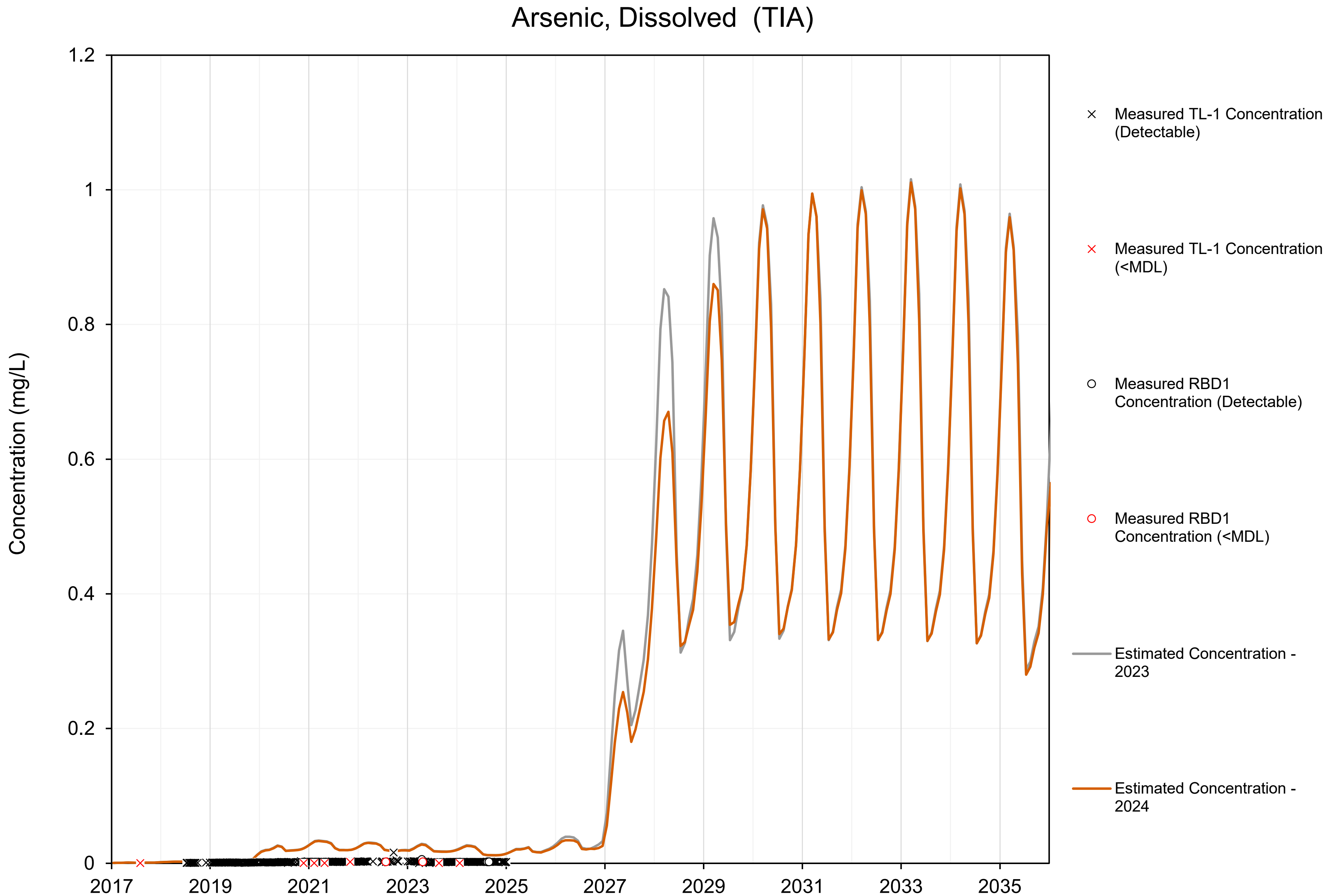

Nitrate as N (TIA)
Concentration (mg/L)
25
20
15
10
5
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

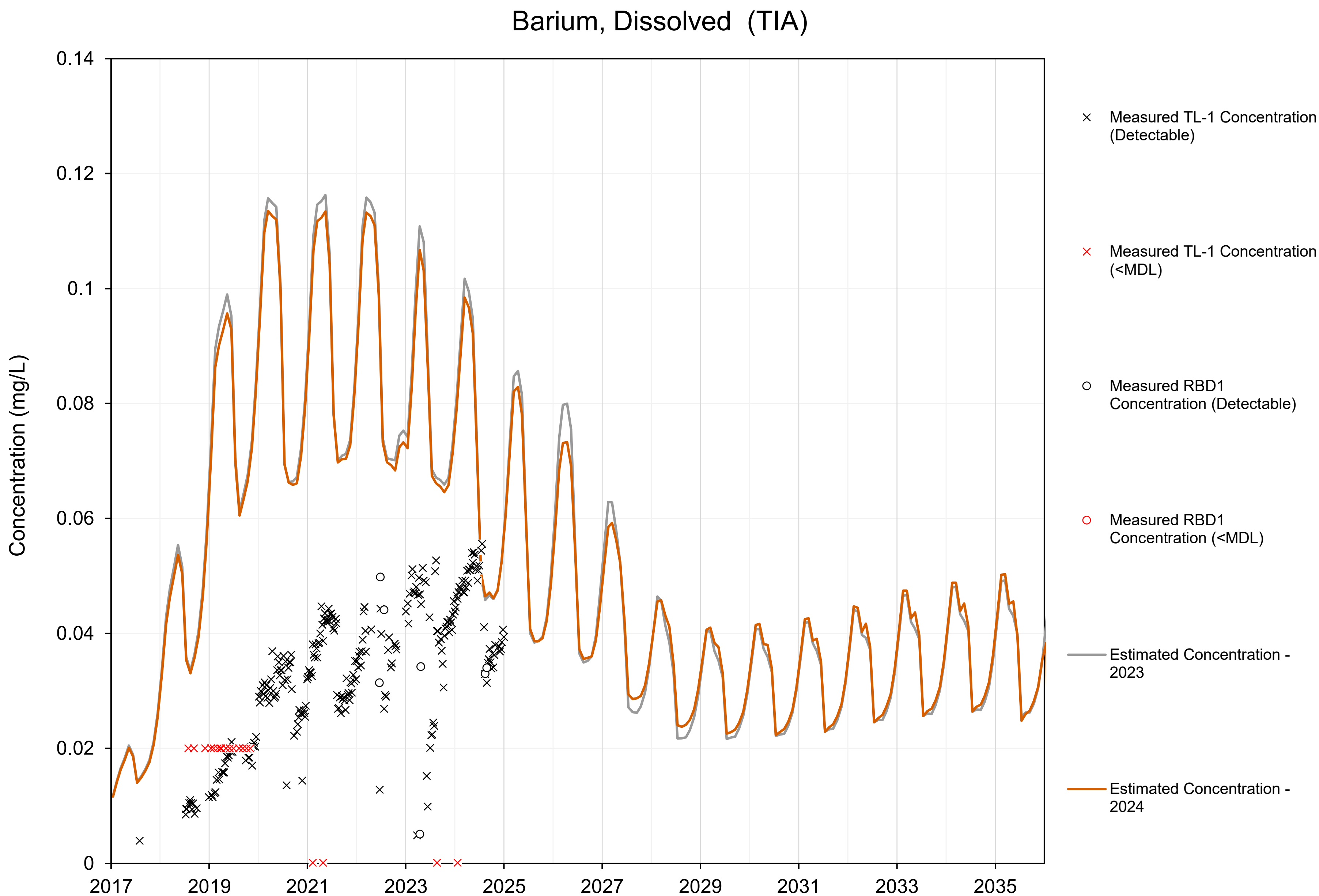

Nitrite as N (TIA)
Concentration (mg/L)
2.5
2
1.5
1
0.5
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

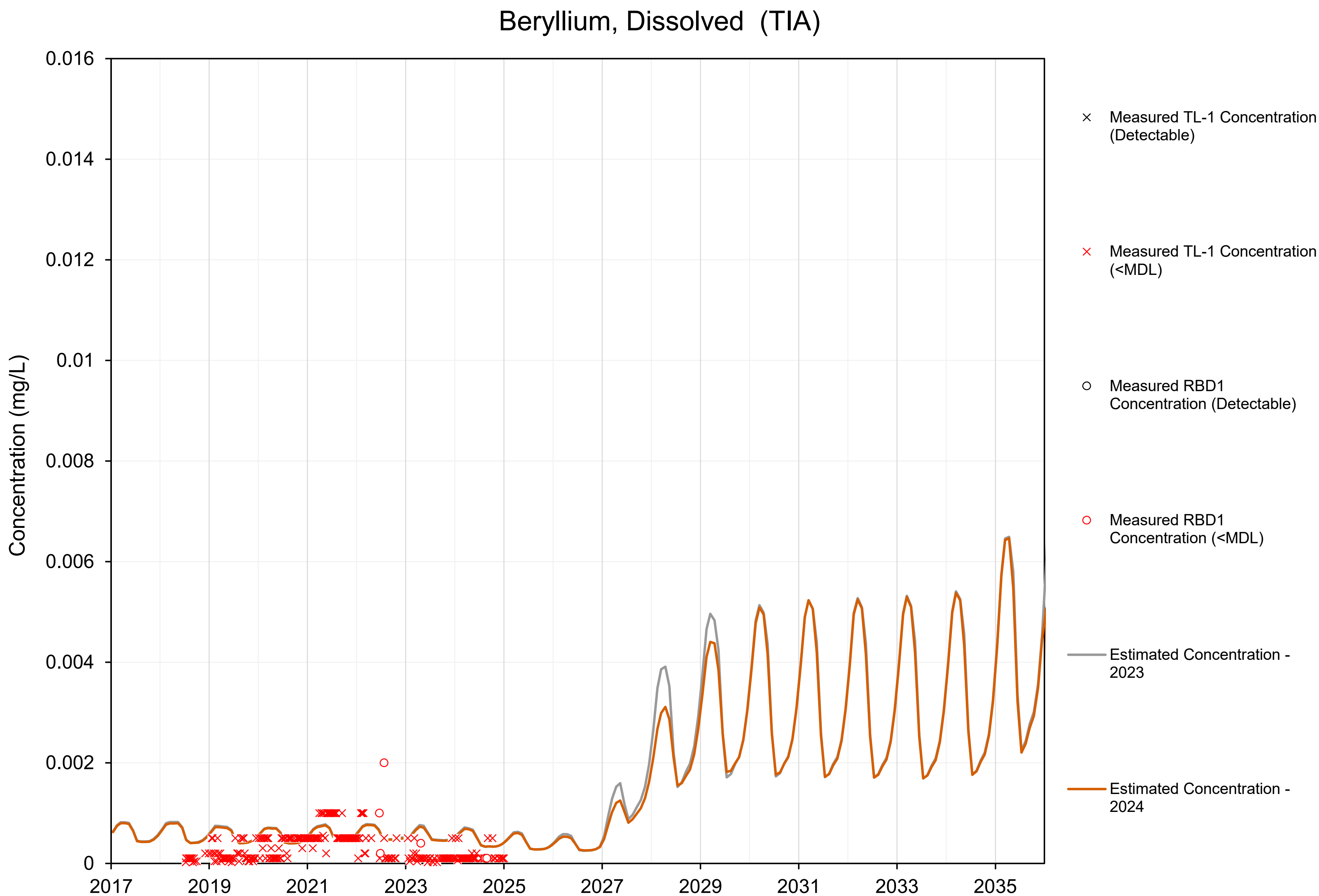

Sulfate (TIA)
Concentration (mg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

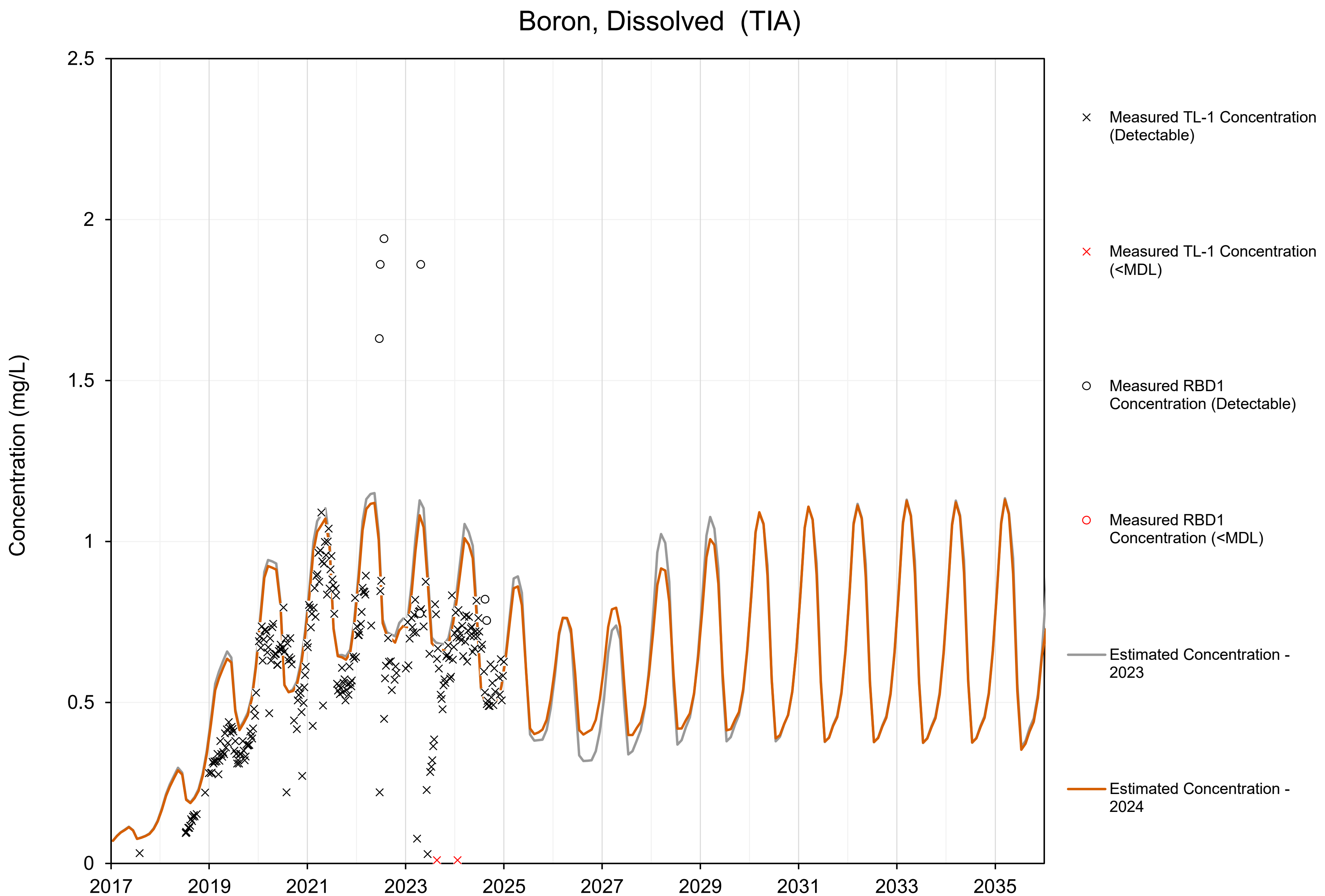

Aluminum, Dissolved (TIA)
Concentration (mg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

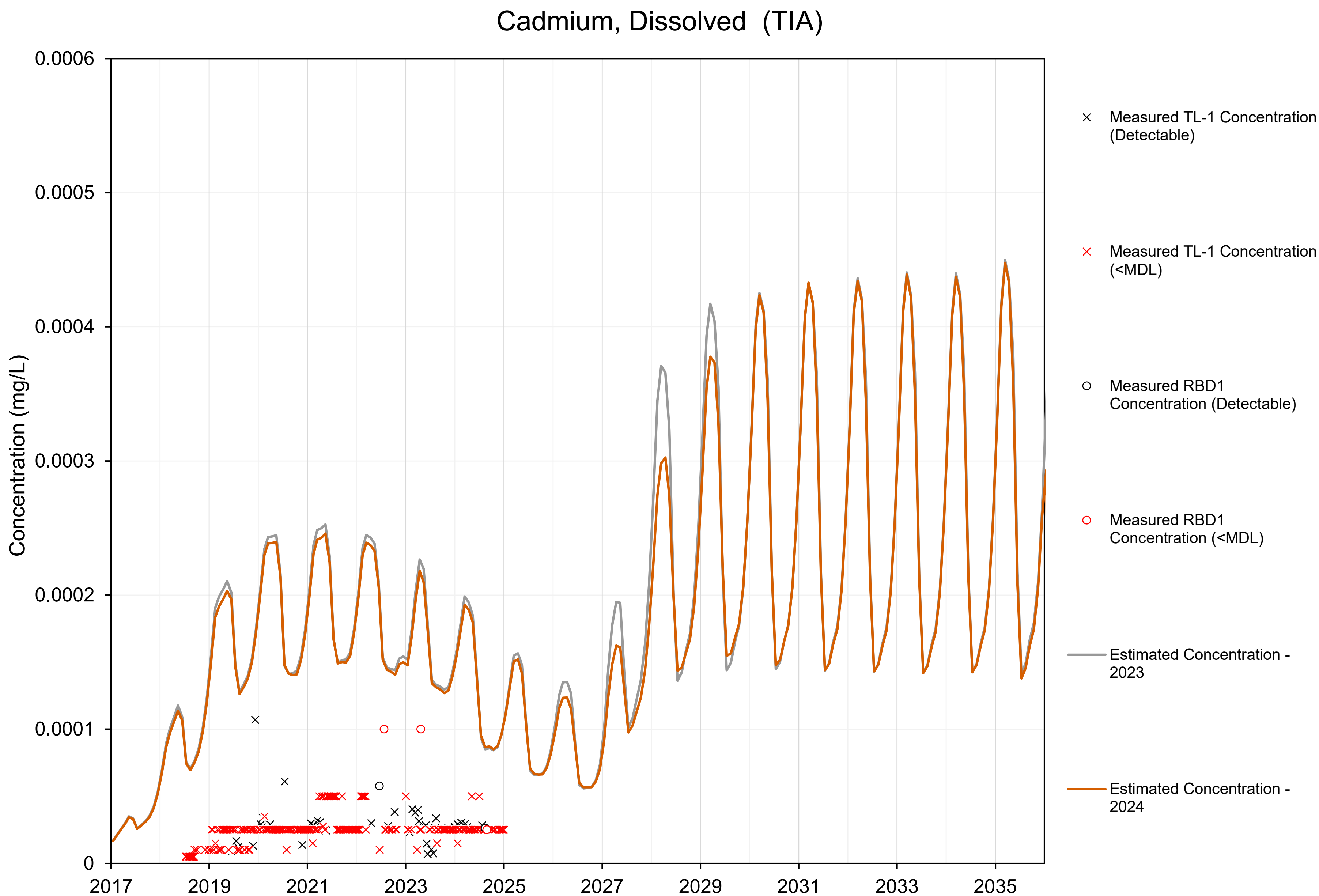

Antimony, Dissolved (TIA)
Concentration (mg/L)
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

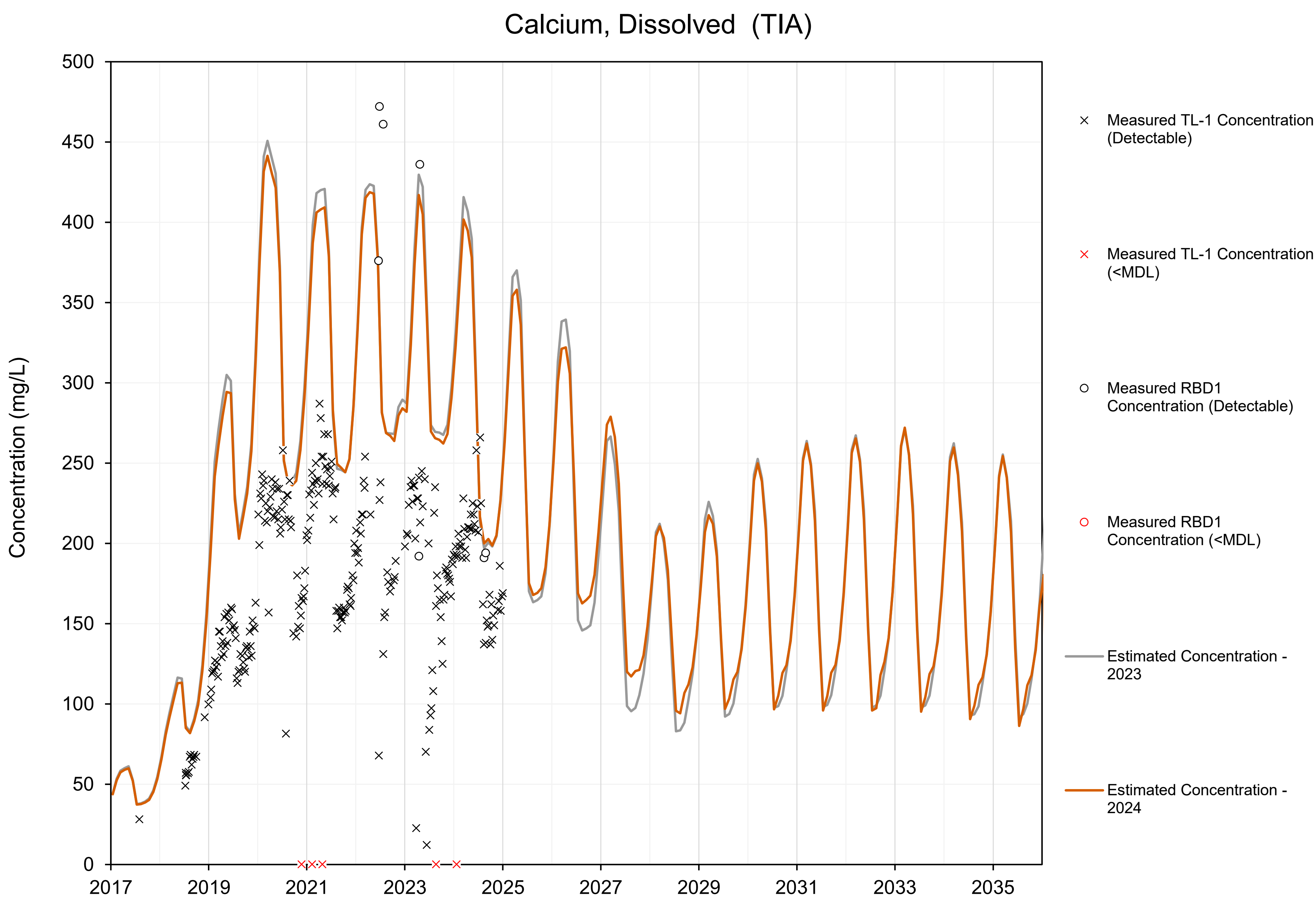

Arsenic, Dissolved (TIA)
Concentration (mg/L)
1.2
1
0.8
0.6
0.4
0.2
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

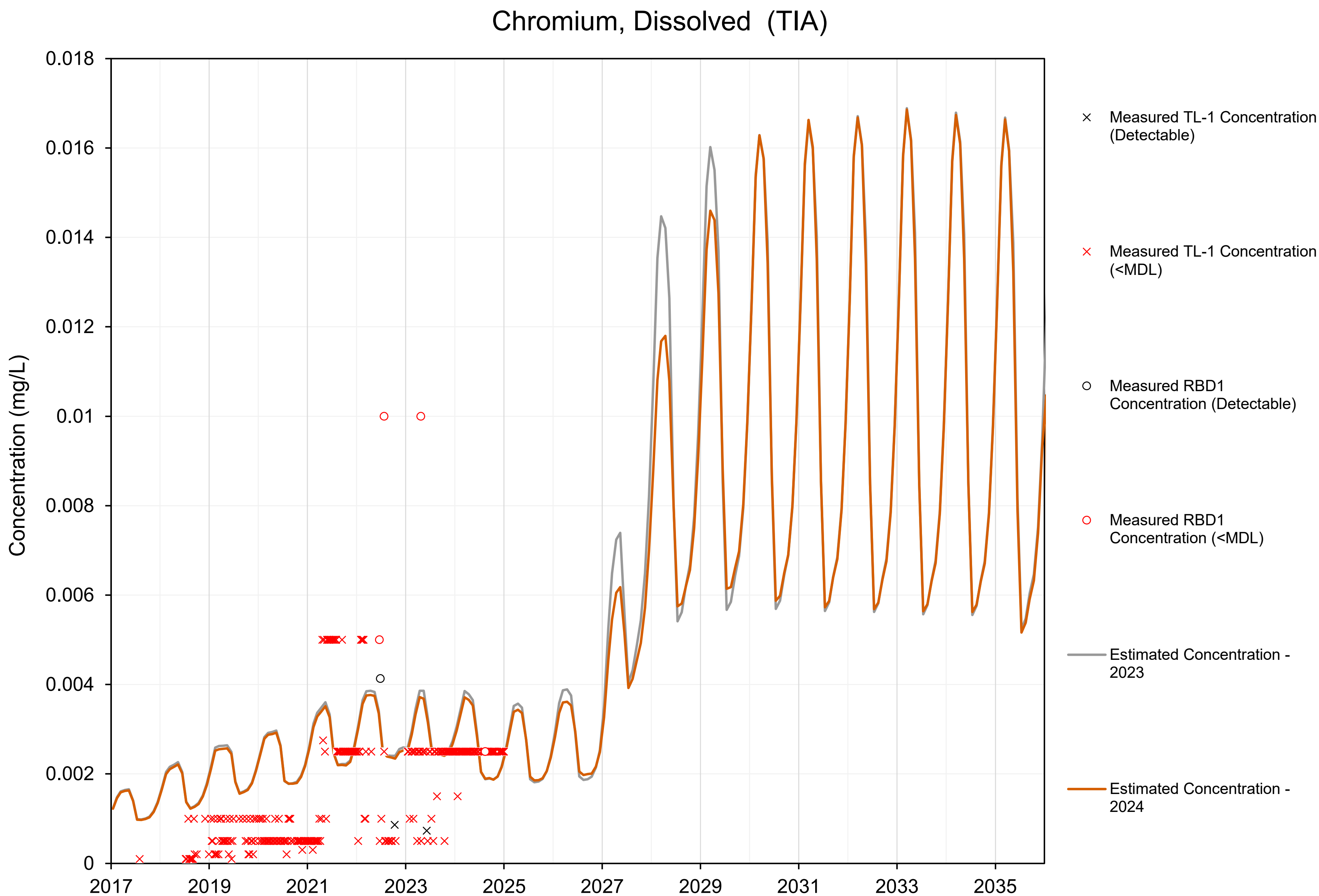

Barium, Dissolved (TIA)
Concentration (mg/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

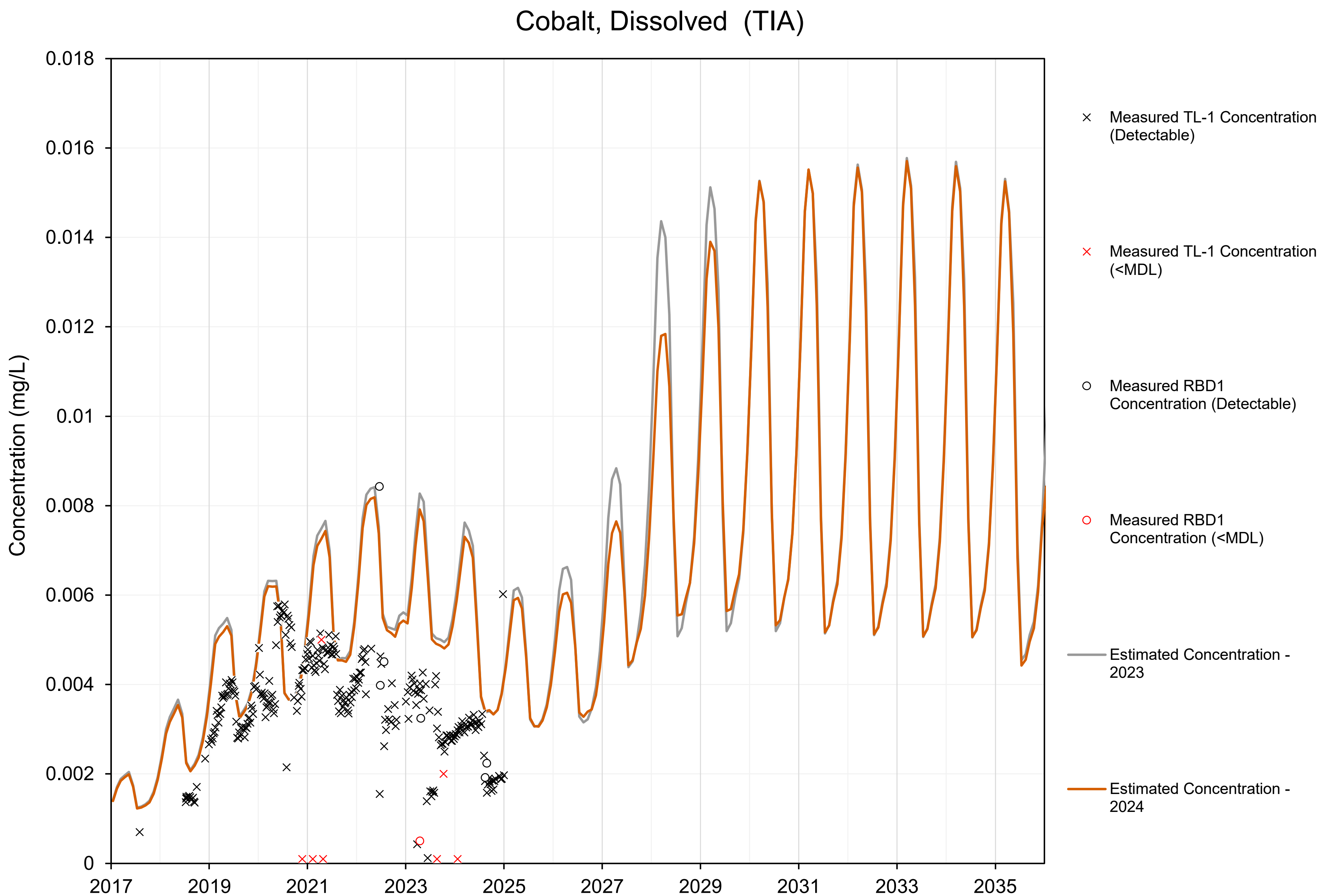

Beryllium, Dissolved (TIA)
Concentration (mg/L)
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

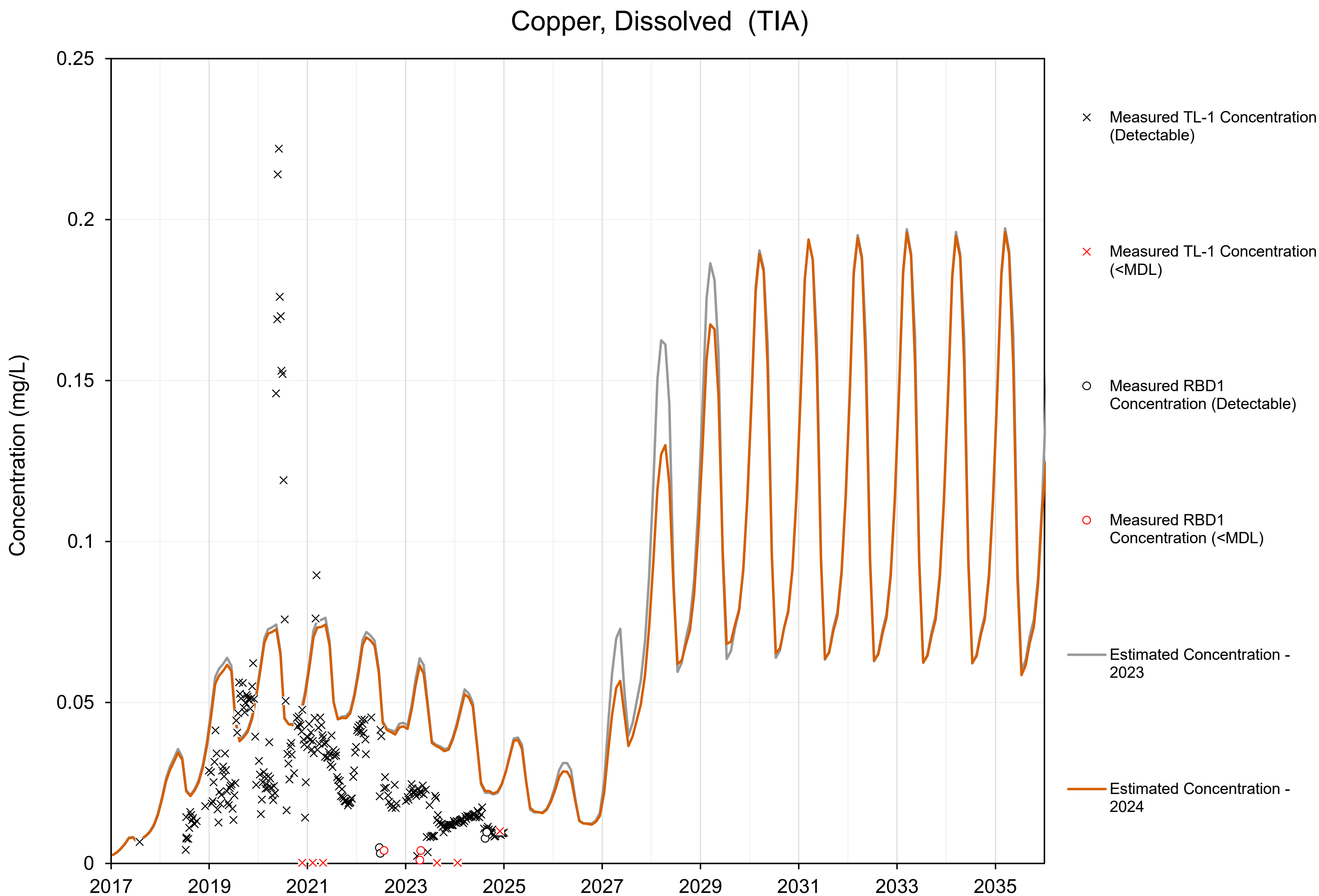

Boron, Dissolved (TIA)
Concentration (mg/L)
2.5
2
1.5
1
0.5
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

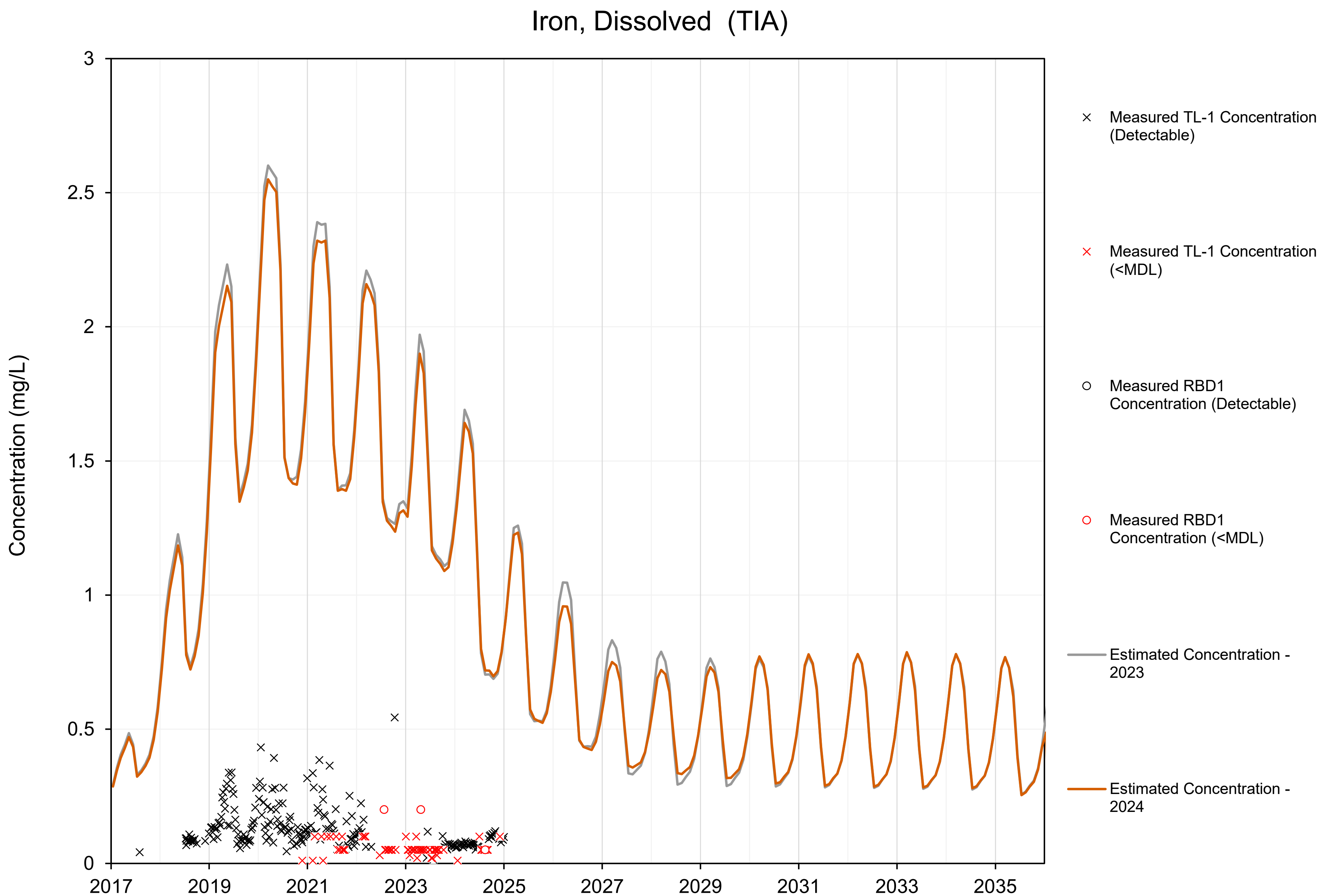

Cadmium, Dissolved (TIA)
Concentration (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

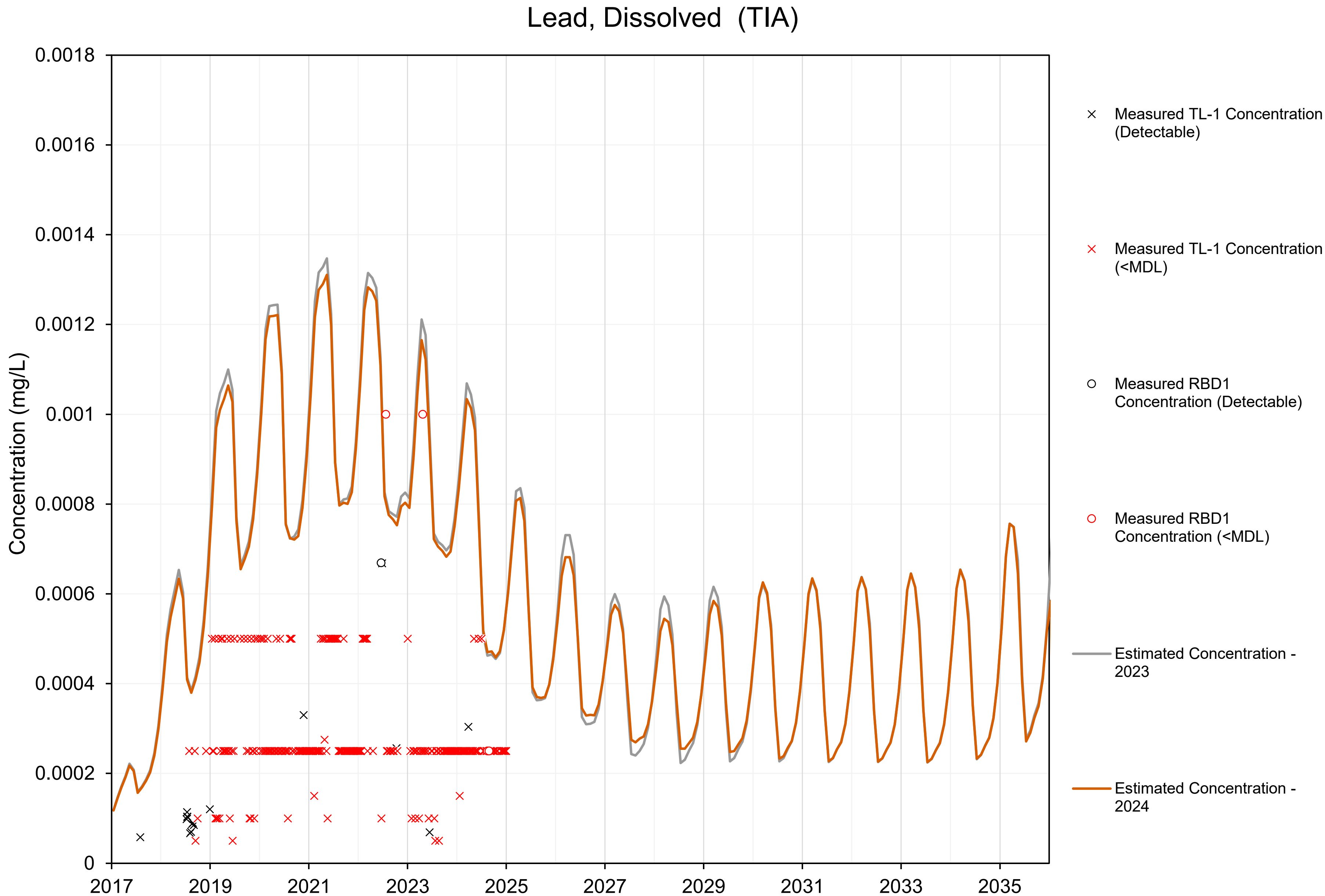

Calcium, Dissolved (TIA)
Concentration (mg/L)
500
450
400
350
300
250
200
150
100
50
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

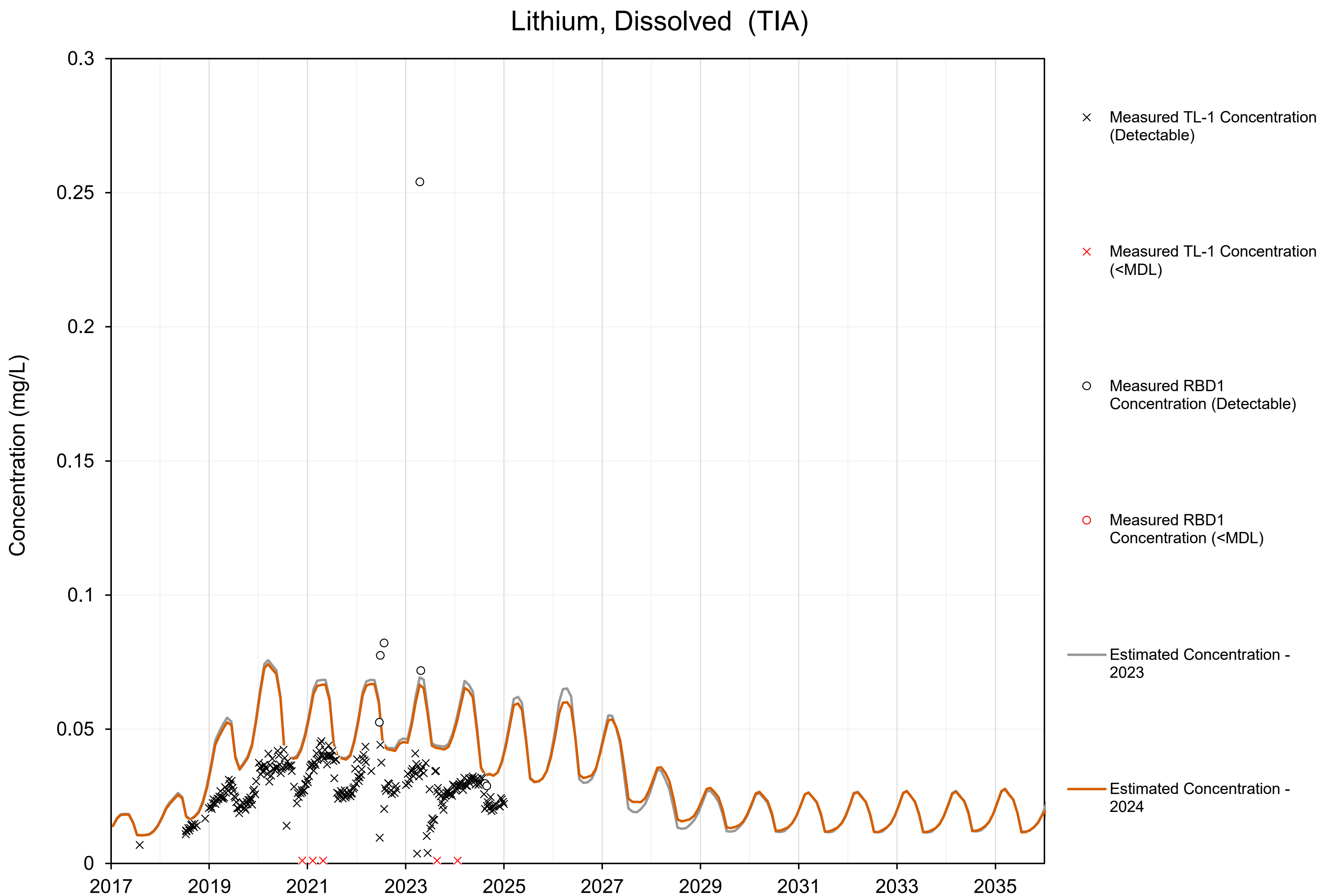

Chromium, Dissolved (TIA)
Concentration (mg/L)
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

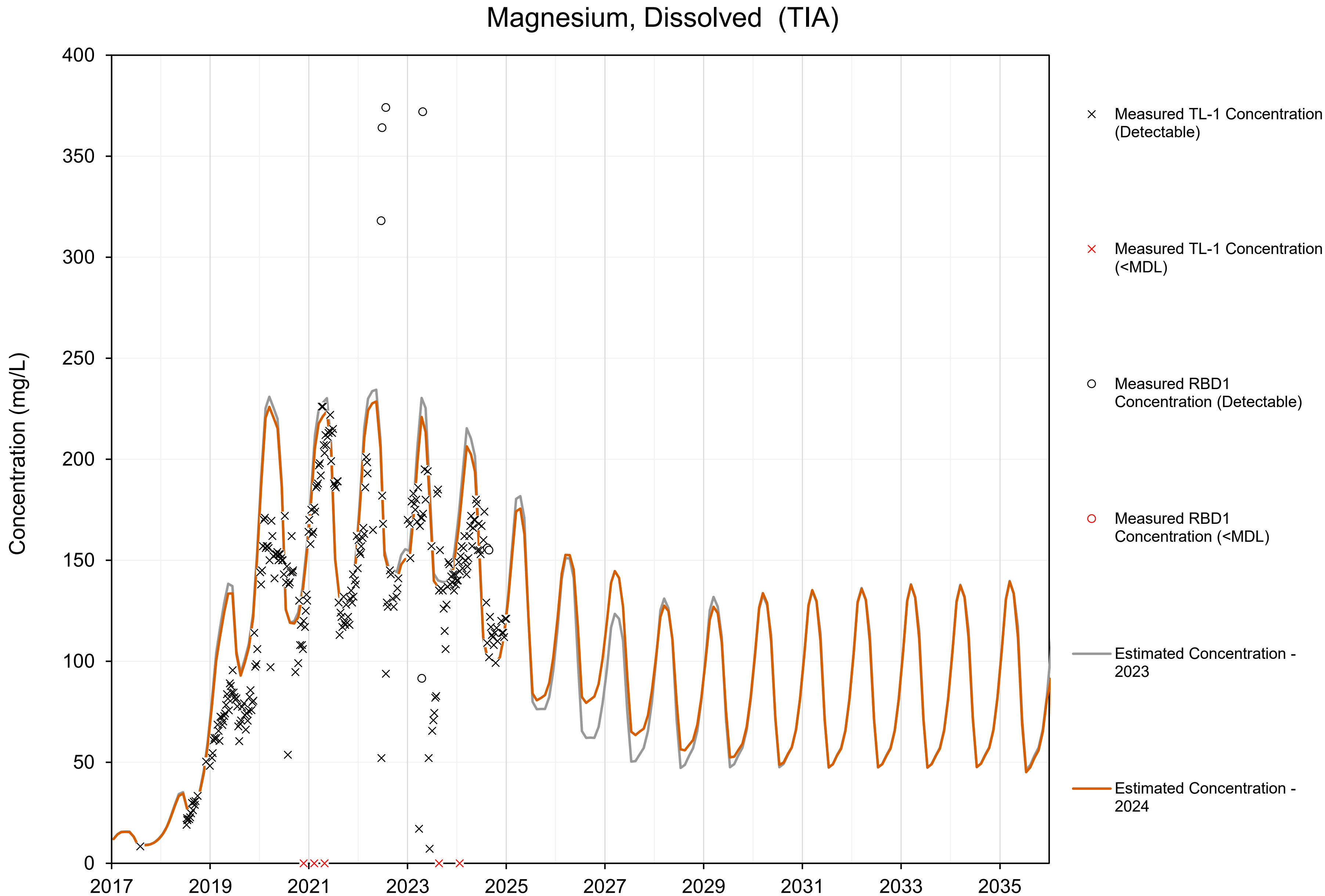

Cobalt, Dissolved (TIA)
Concentration (mg/L)
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

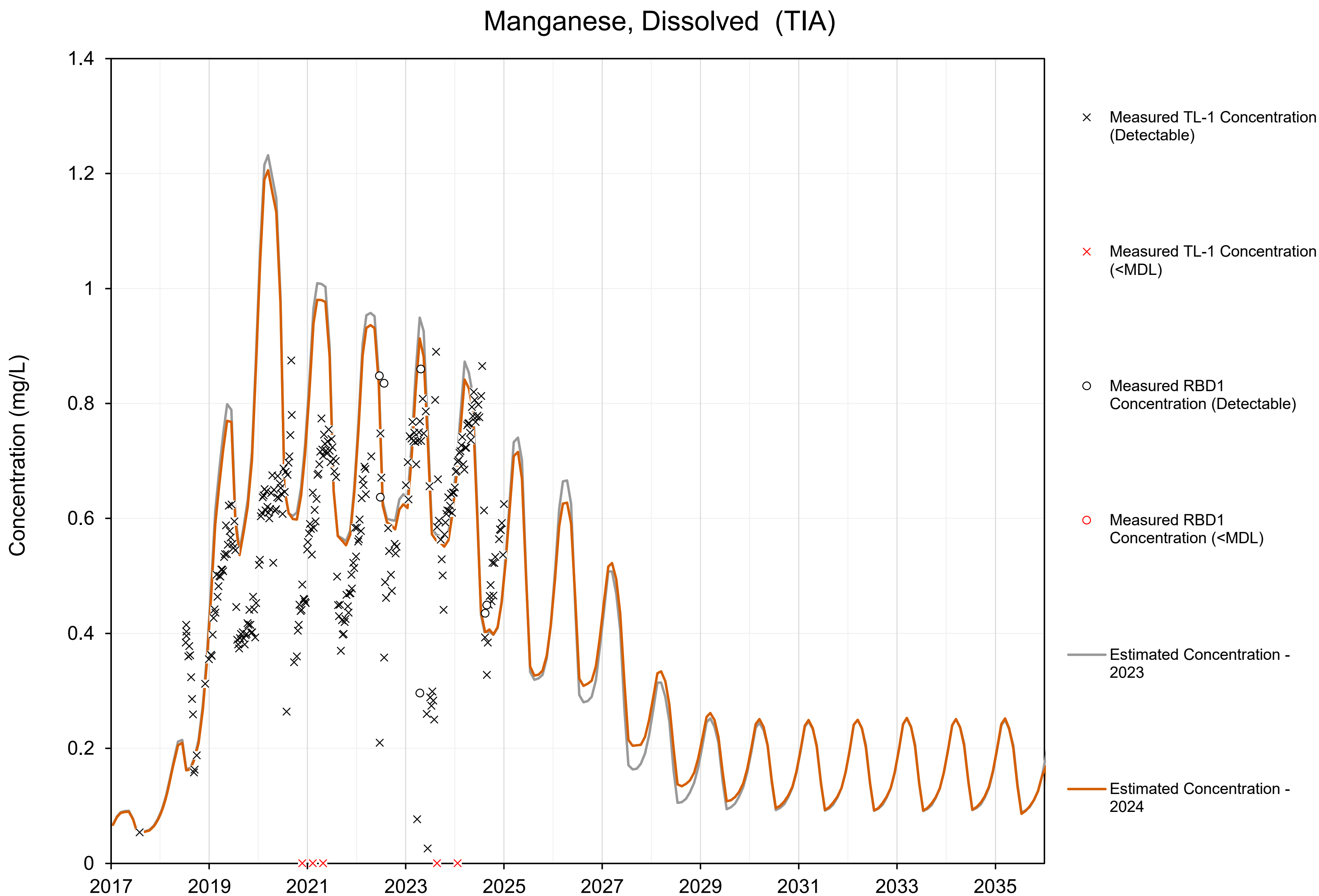

Copper, Dissolved (TIA)
Concentration (mg/L)
0.25
0.2
0.15
0.1
0.05
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

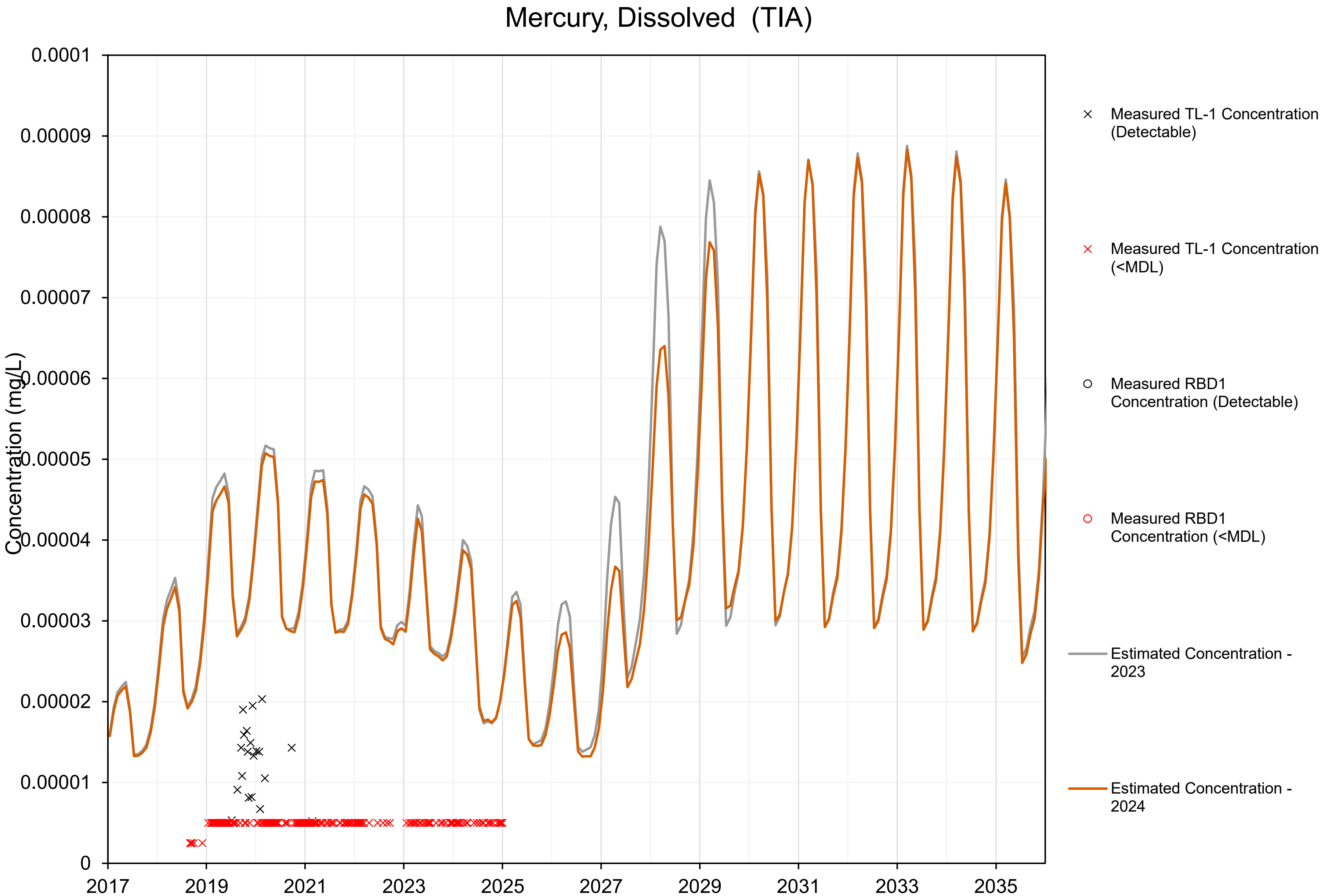

Iron, Dissolved (TIA)
Concentration (mg/L)
3
2.5
2
1.5
1
0.5
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

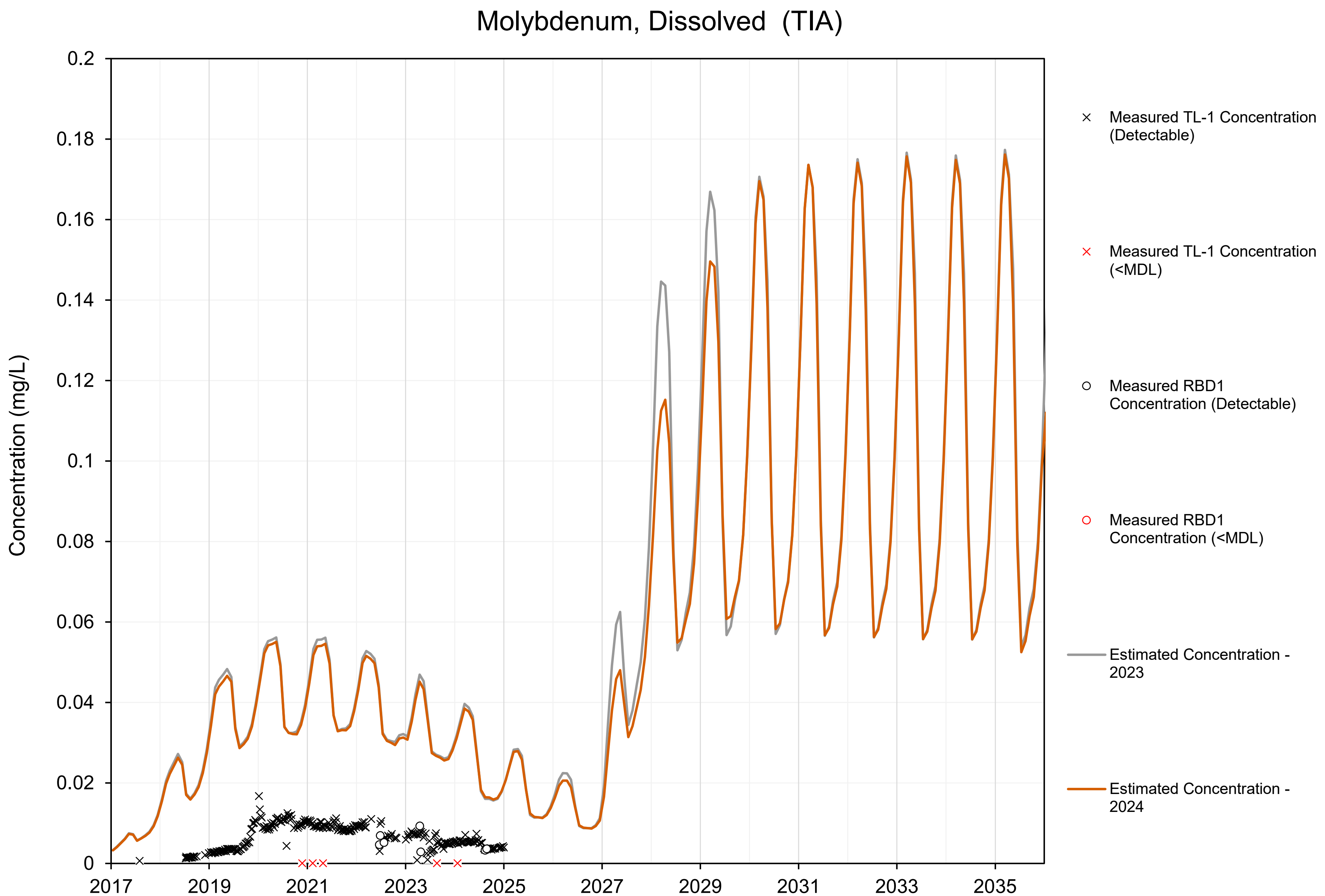

Lead, Dissolved (TIA)
Concentration (mg/L)
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

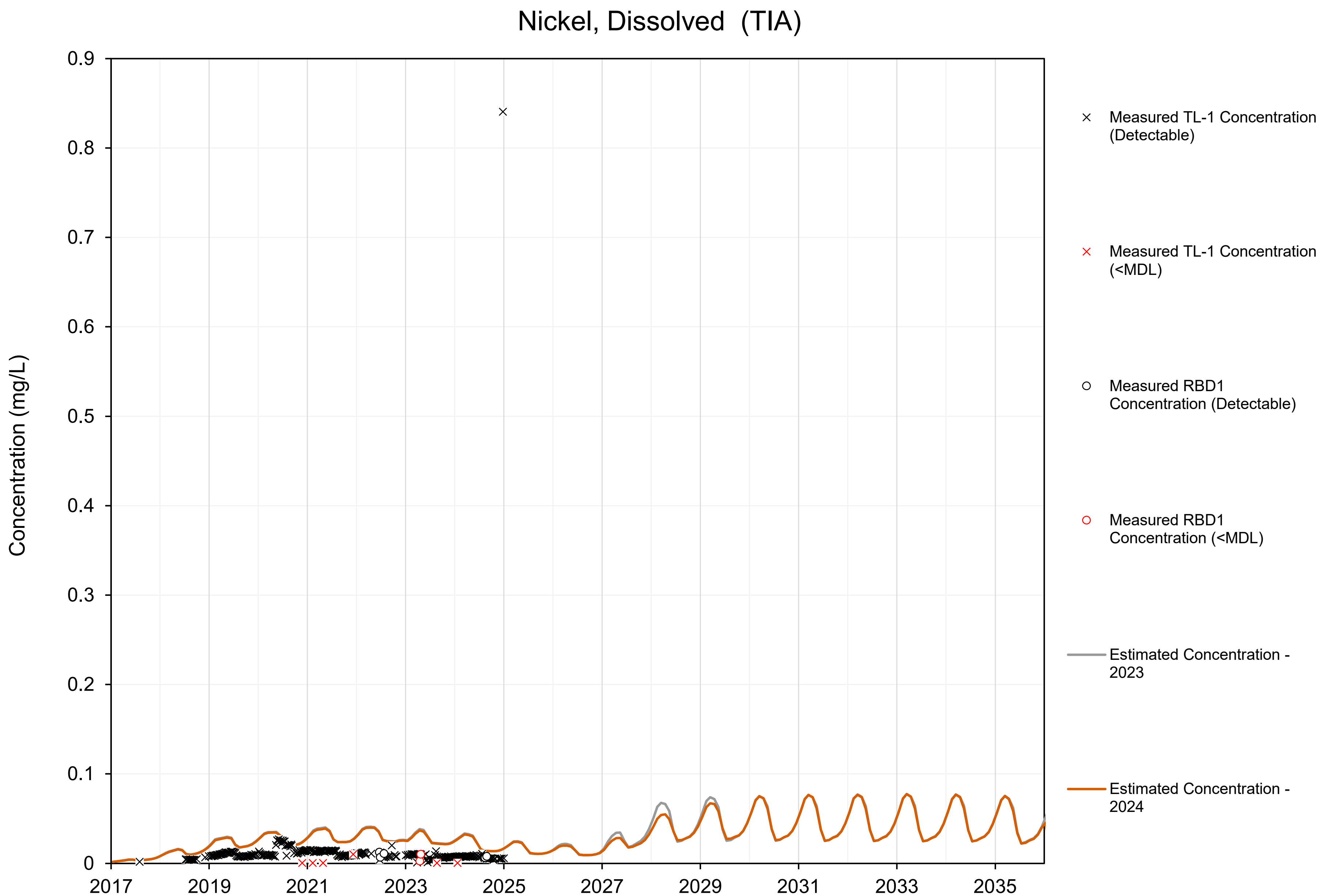

Lithium, Dissolved (TIA)
Concentration (mg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

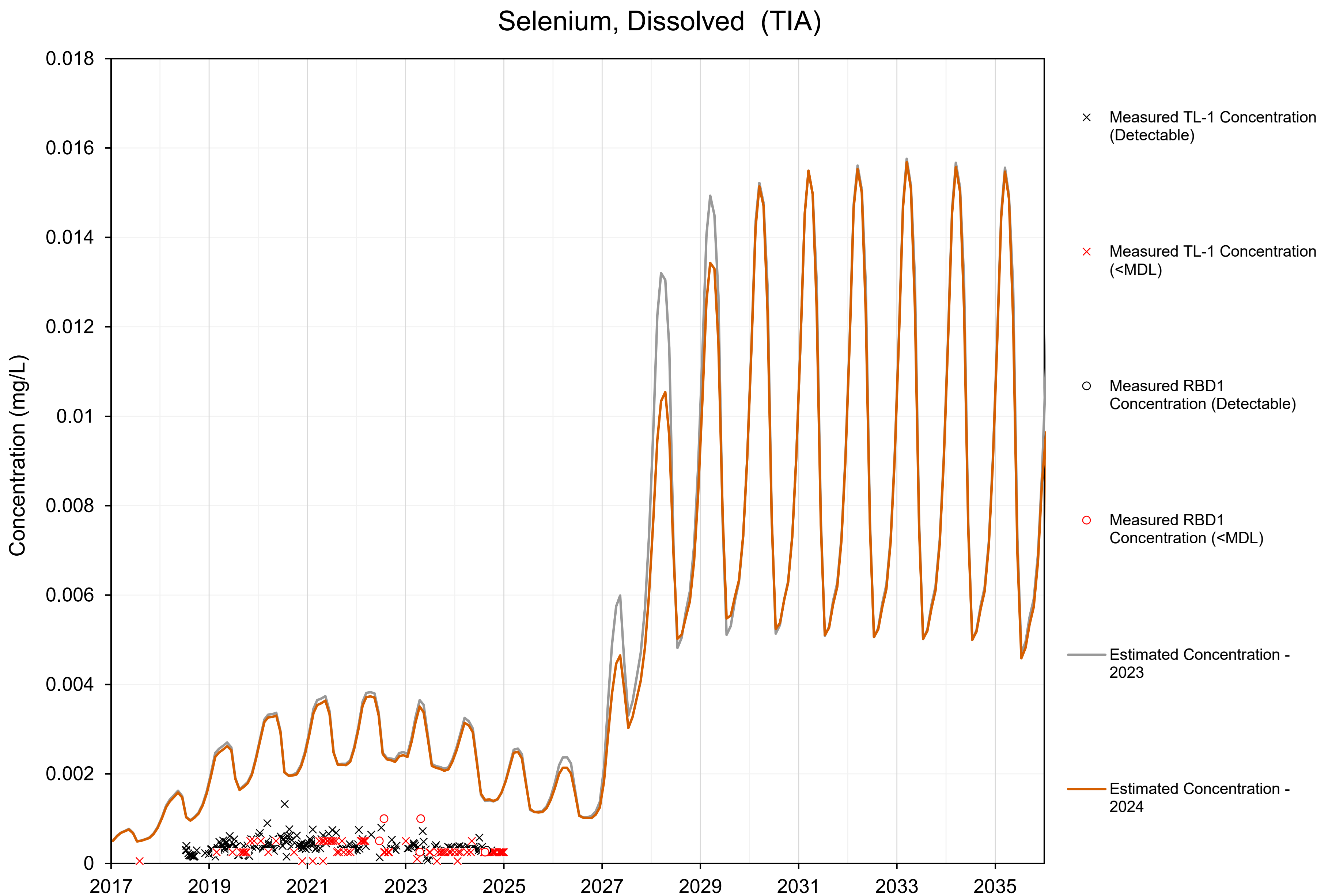

Magnesium, Dissolved (TIA)
Concentration (mg/L)
400
350
300
250
200
150
100
50
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

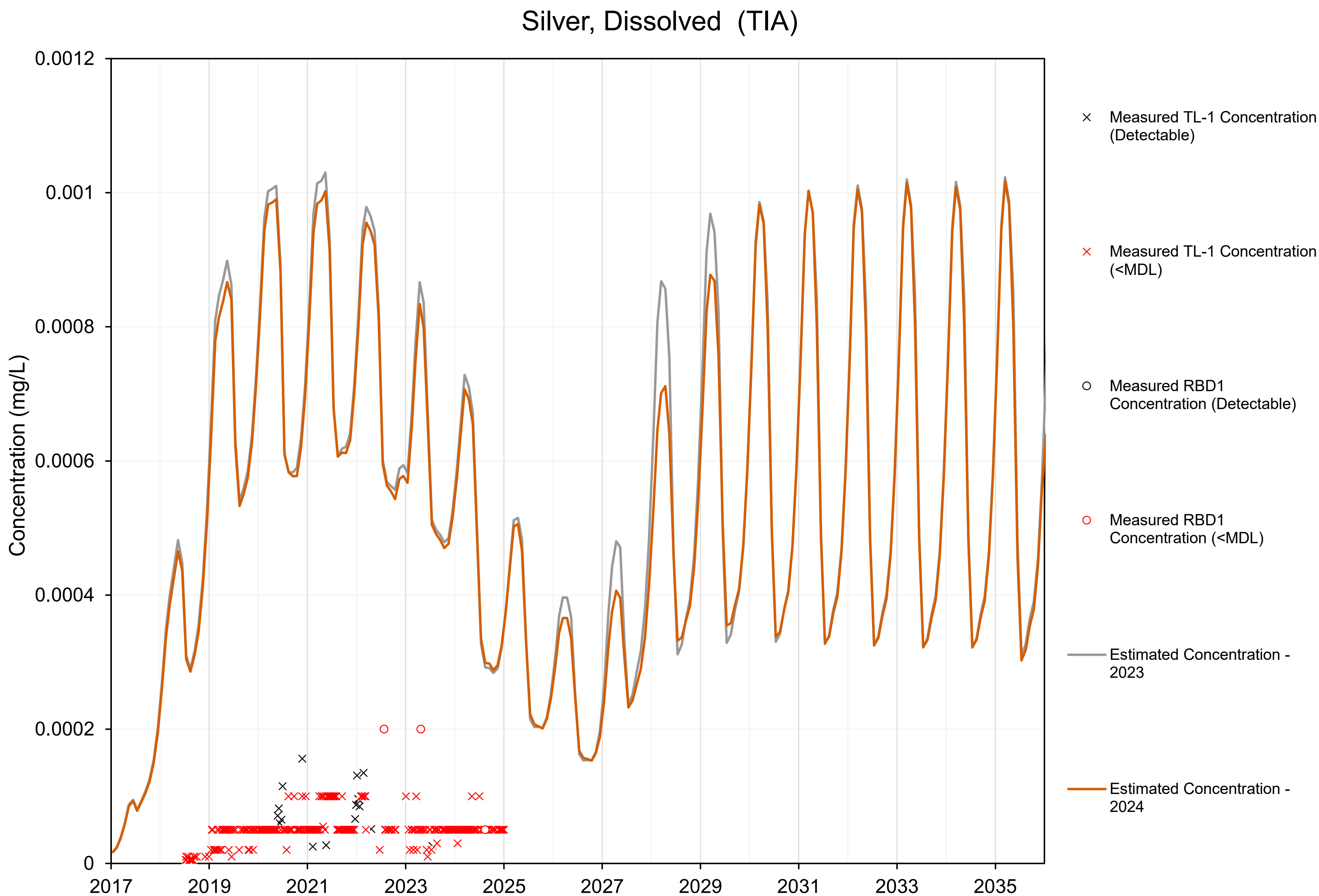

Manganese, Dissolved (TIA)
Concentration (mg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

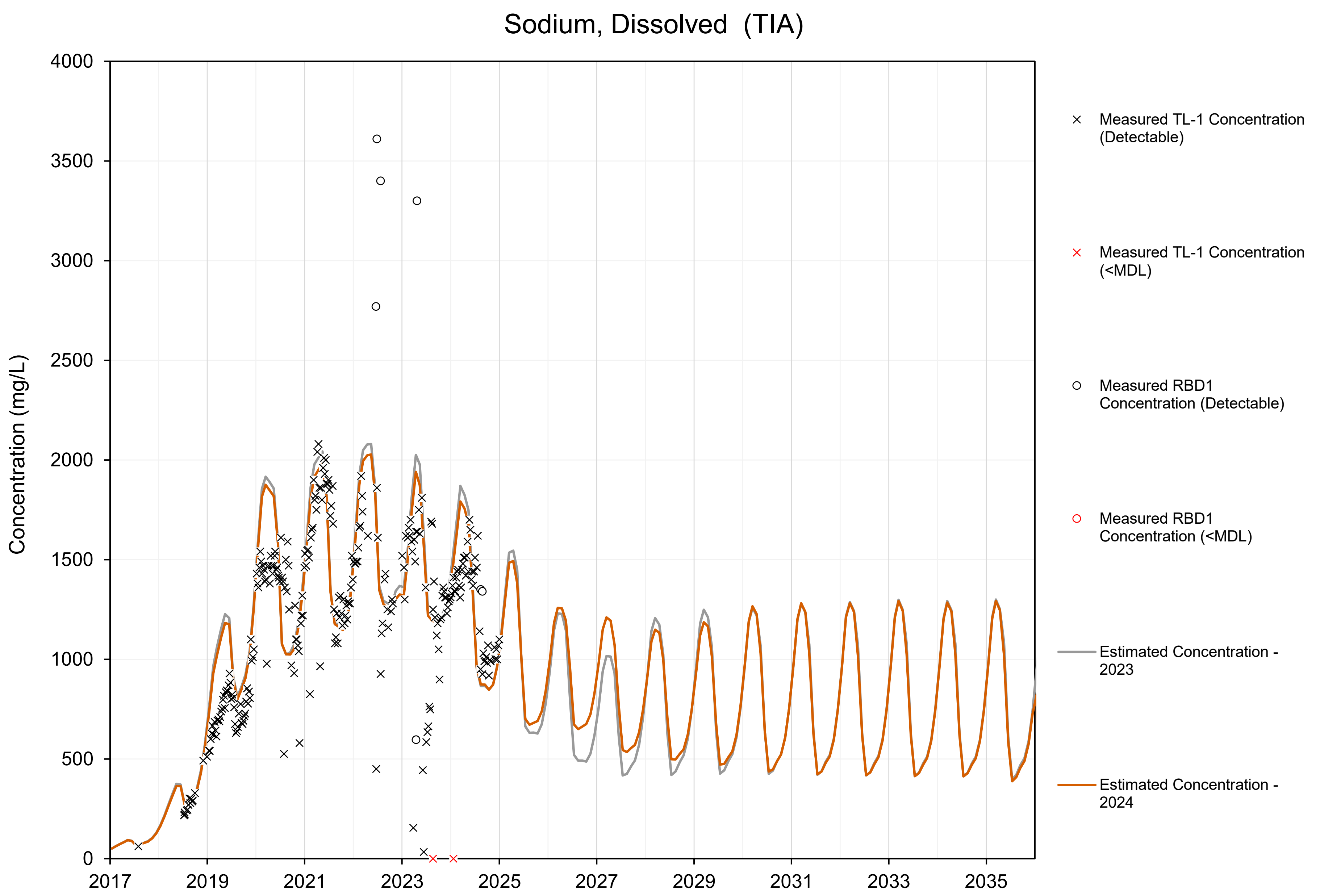

Mercury, Dissolved (TIA)
Concentration (mg/L)
0.0001
0.00009
0.00008
0.00007
0.00006
0.00005
0.00004
0.00003
0.00002
0.00001
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

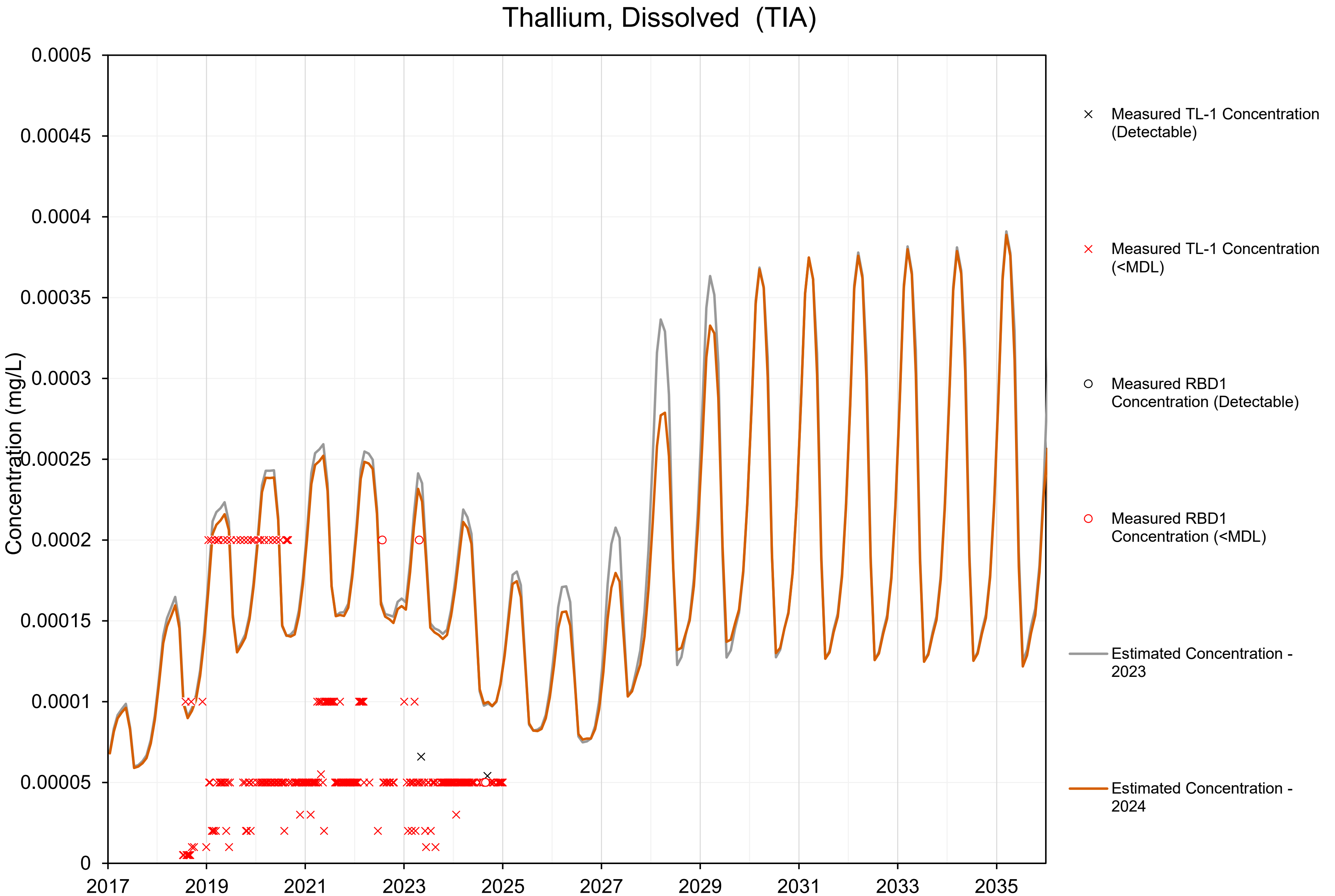

Molybdenum, Dissolved (TIA)
Concentration (mg/L)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

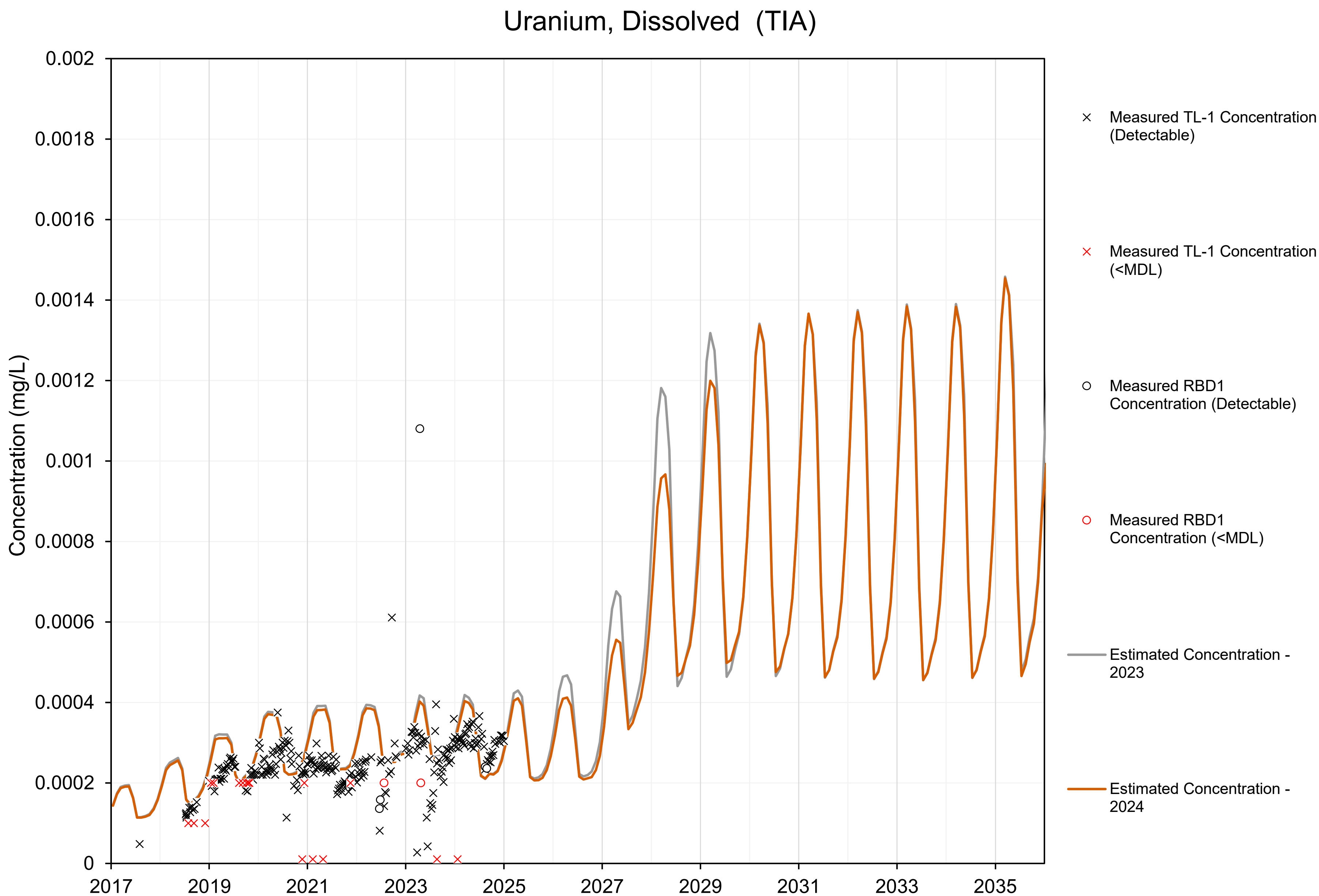

Nickel, Dissolved (TIA)
Concentration (mg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

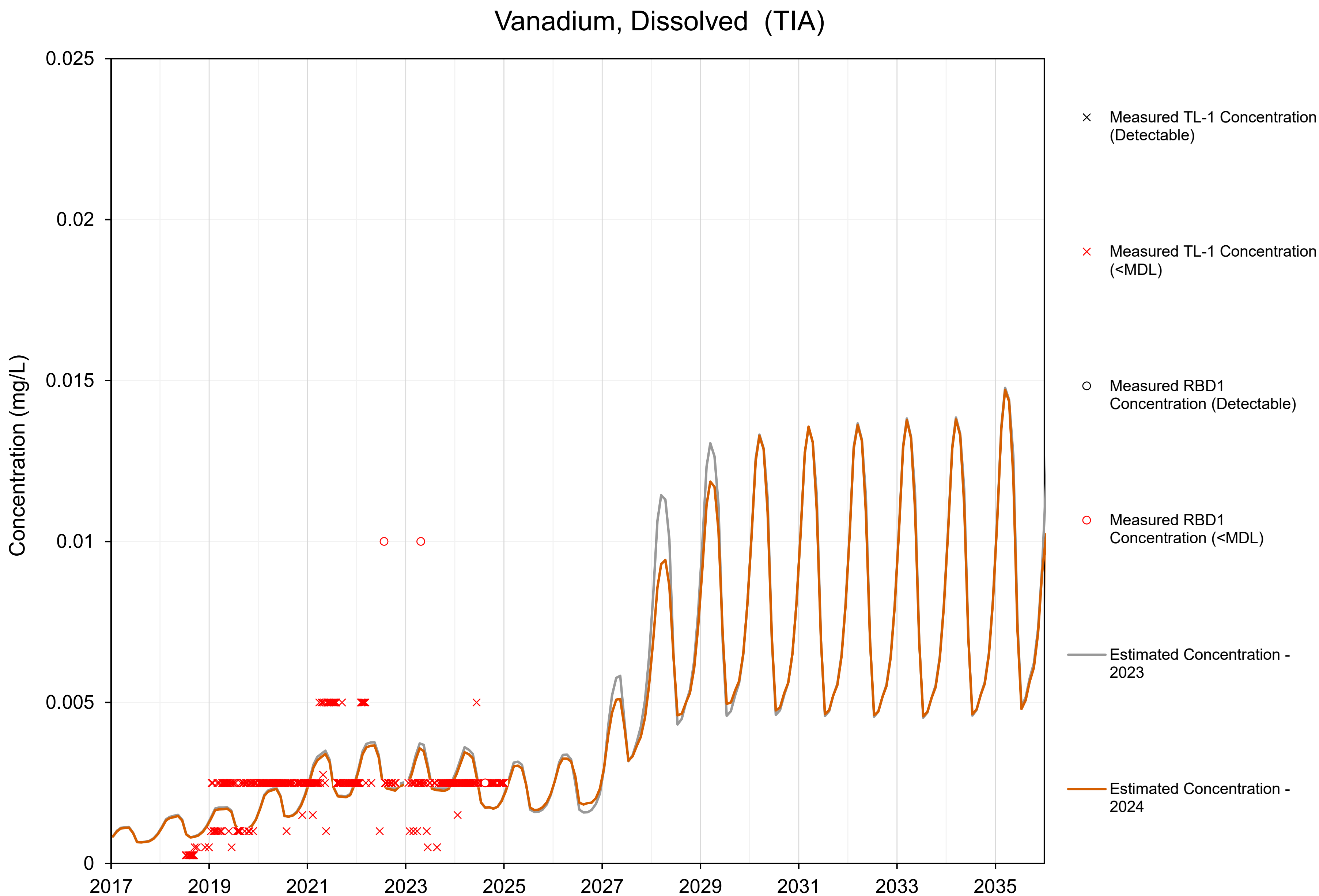

Selenium, Dissolved (TIA)
Concentration (mg/L)
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

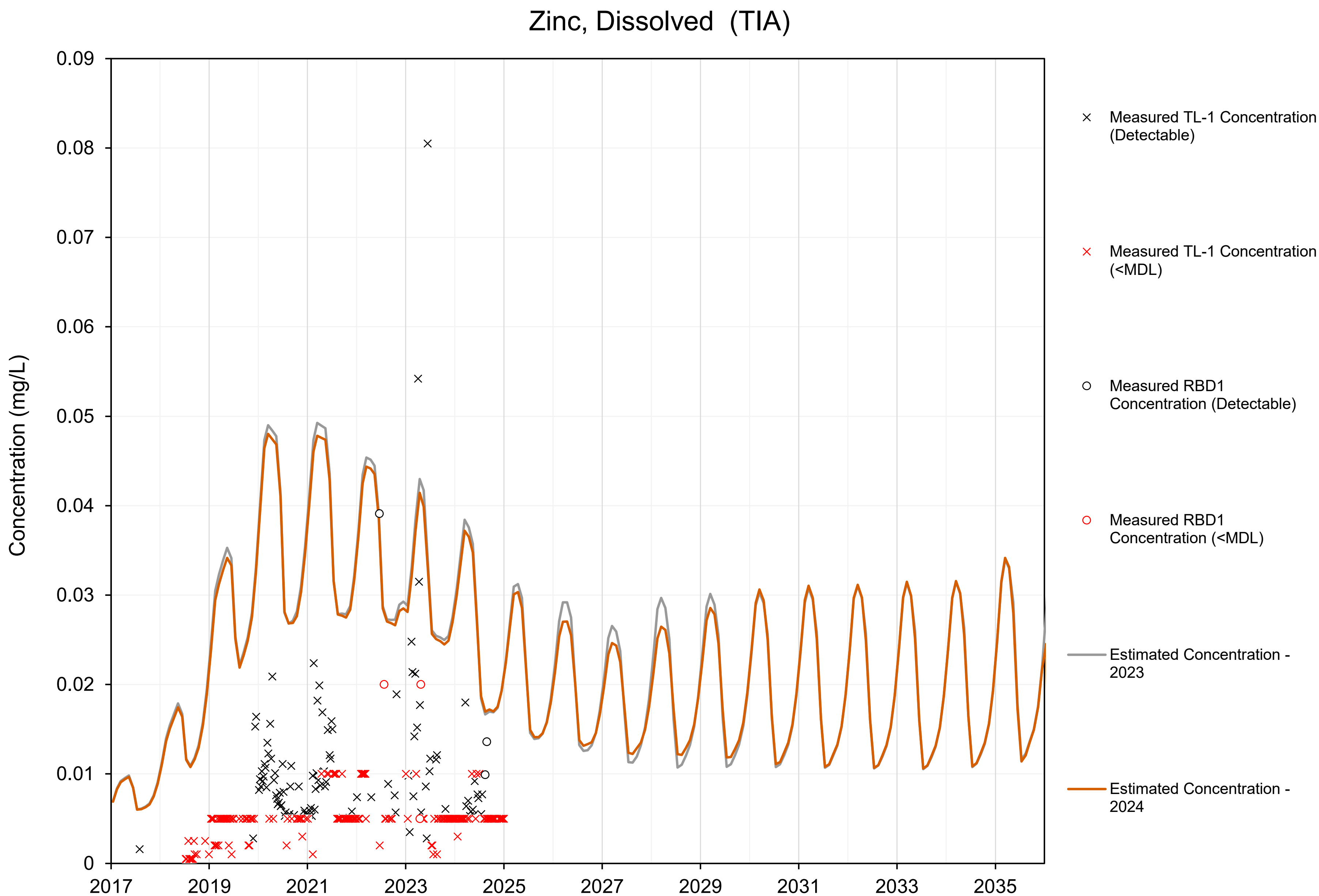

Silver, Dissolved (TIA)
Concentration (mg/L)
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

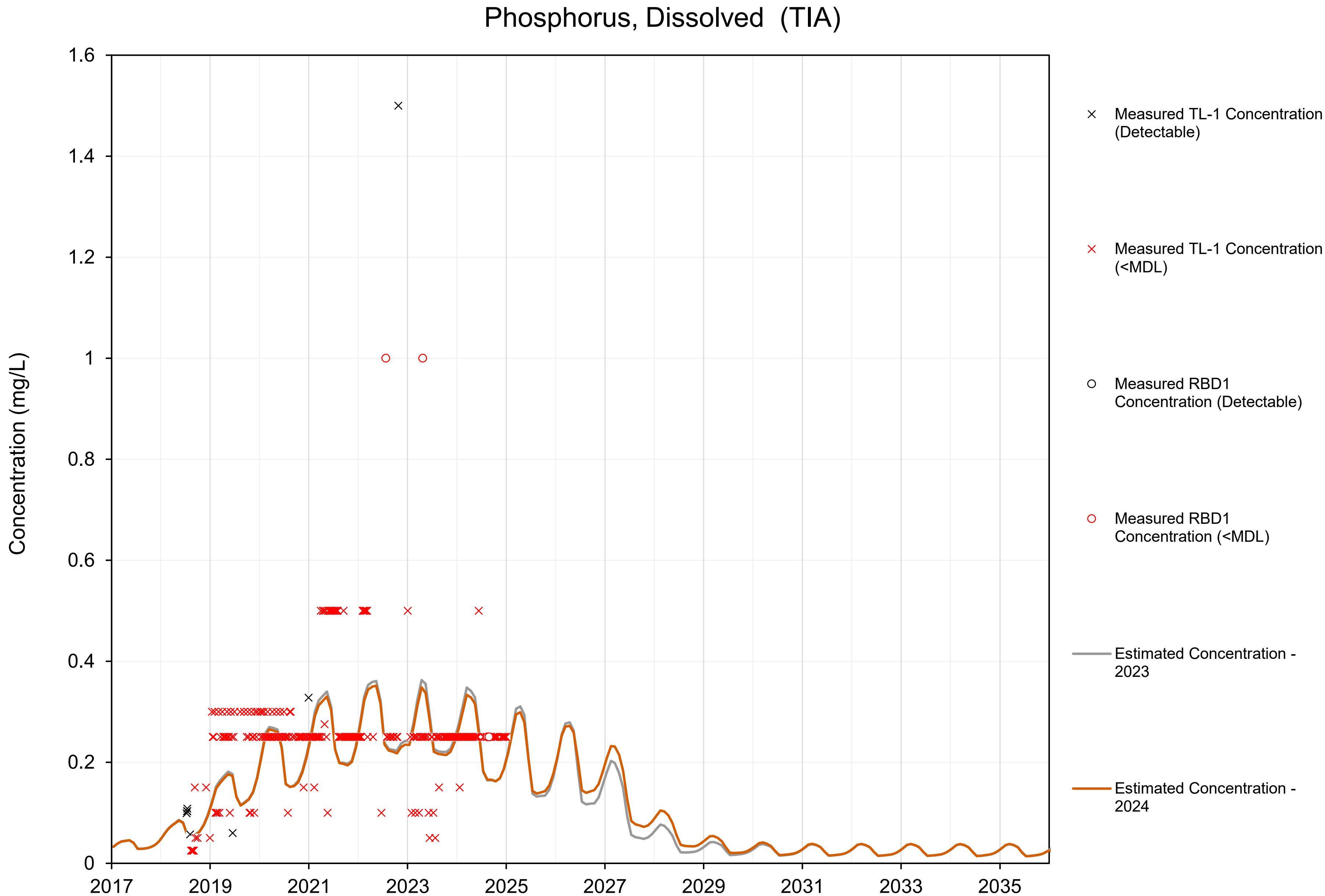

Sodium, Dissolved (TIA)
Concentration (mg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

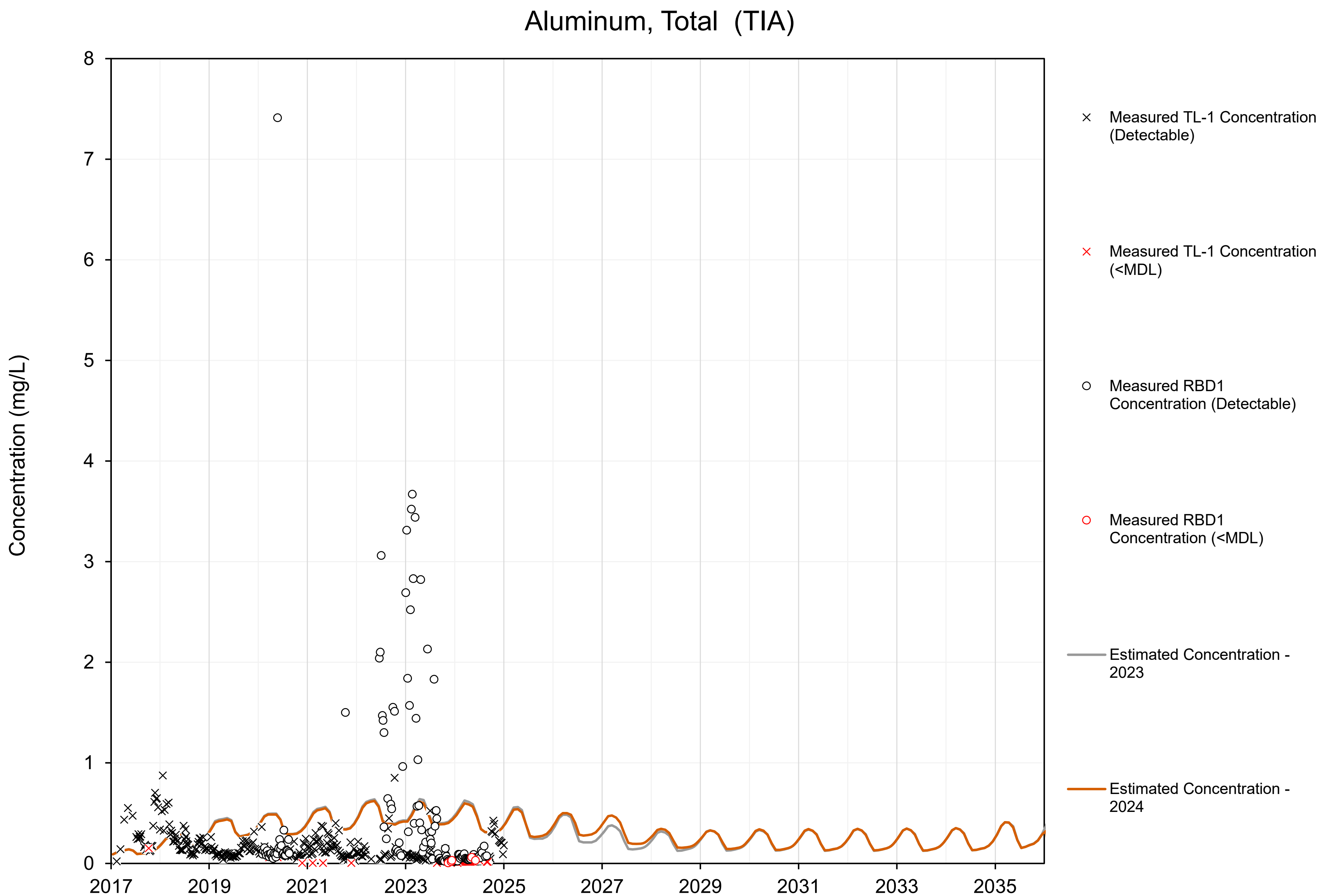

Thallium, Dissolved (TIA)
Concentration (mg/L)
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
0.00005
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

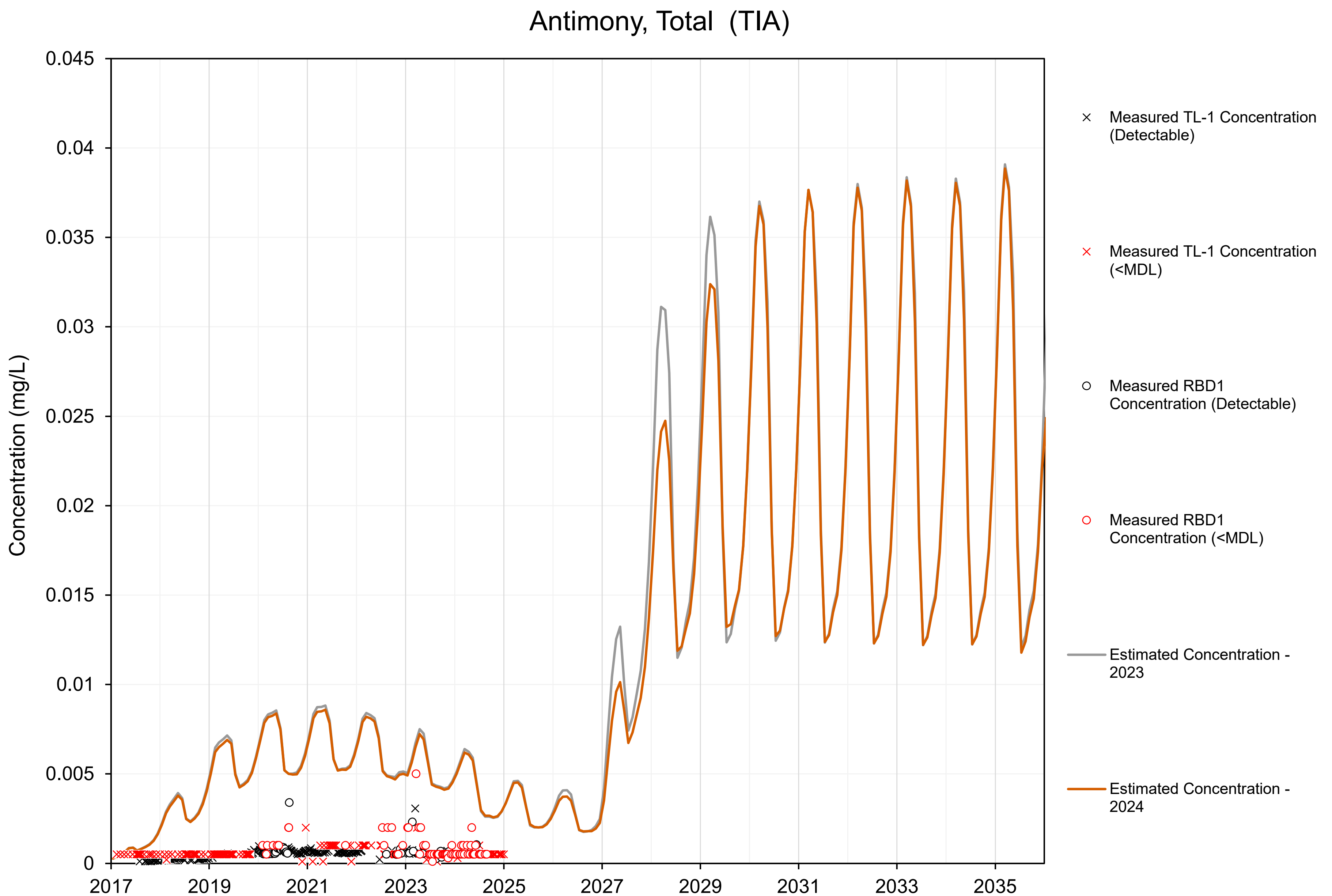

Uranium, Dissolved (TIA)
Concentration (mg/L)
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

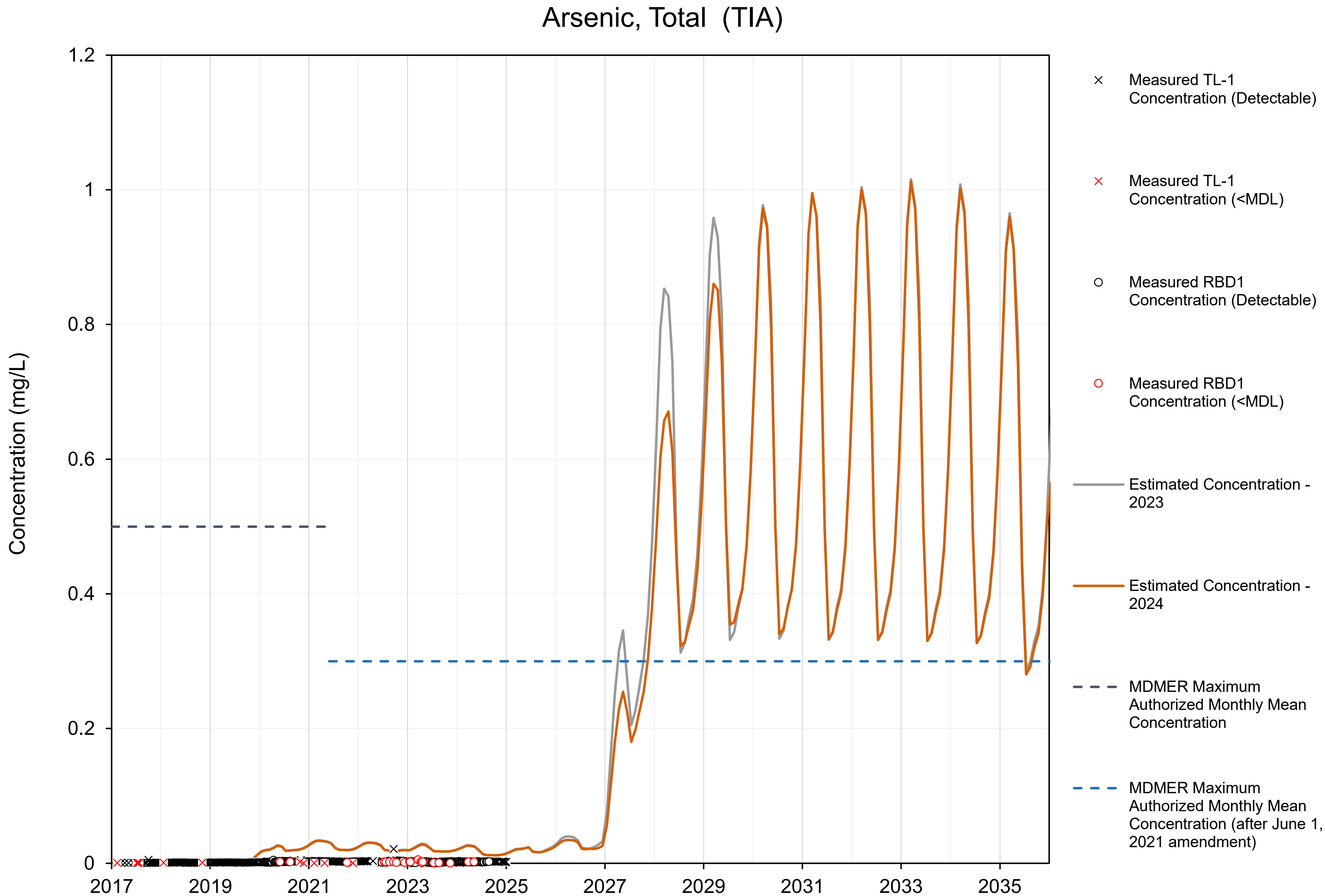

Vanadium, Dissolved (TIA)
Concentration (mg/L)
0.025
0.02
0.015
0.01
0.005
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

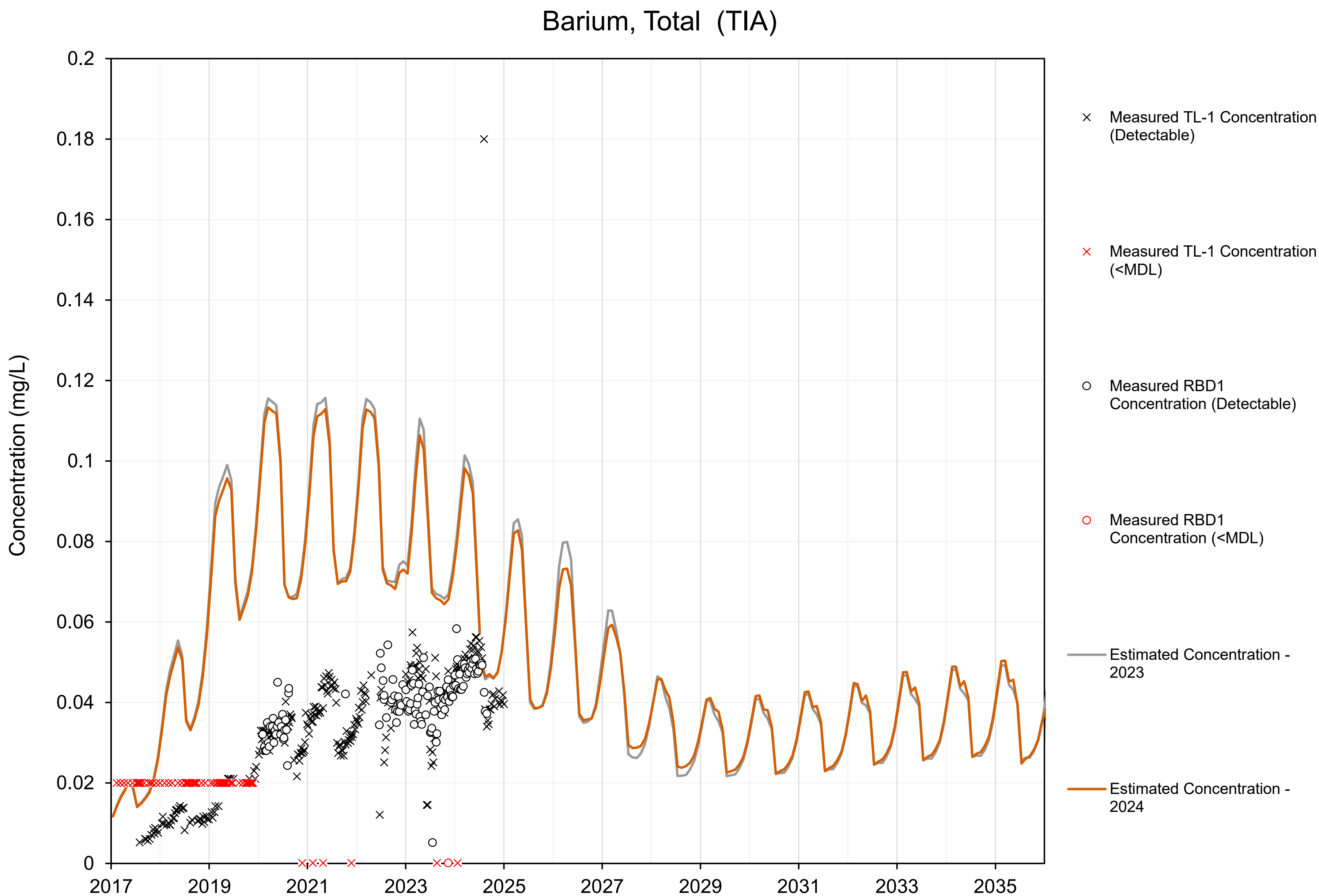

Zinc, Dissolved (TIA)
Concentration (mg/L)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

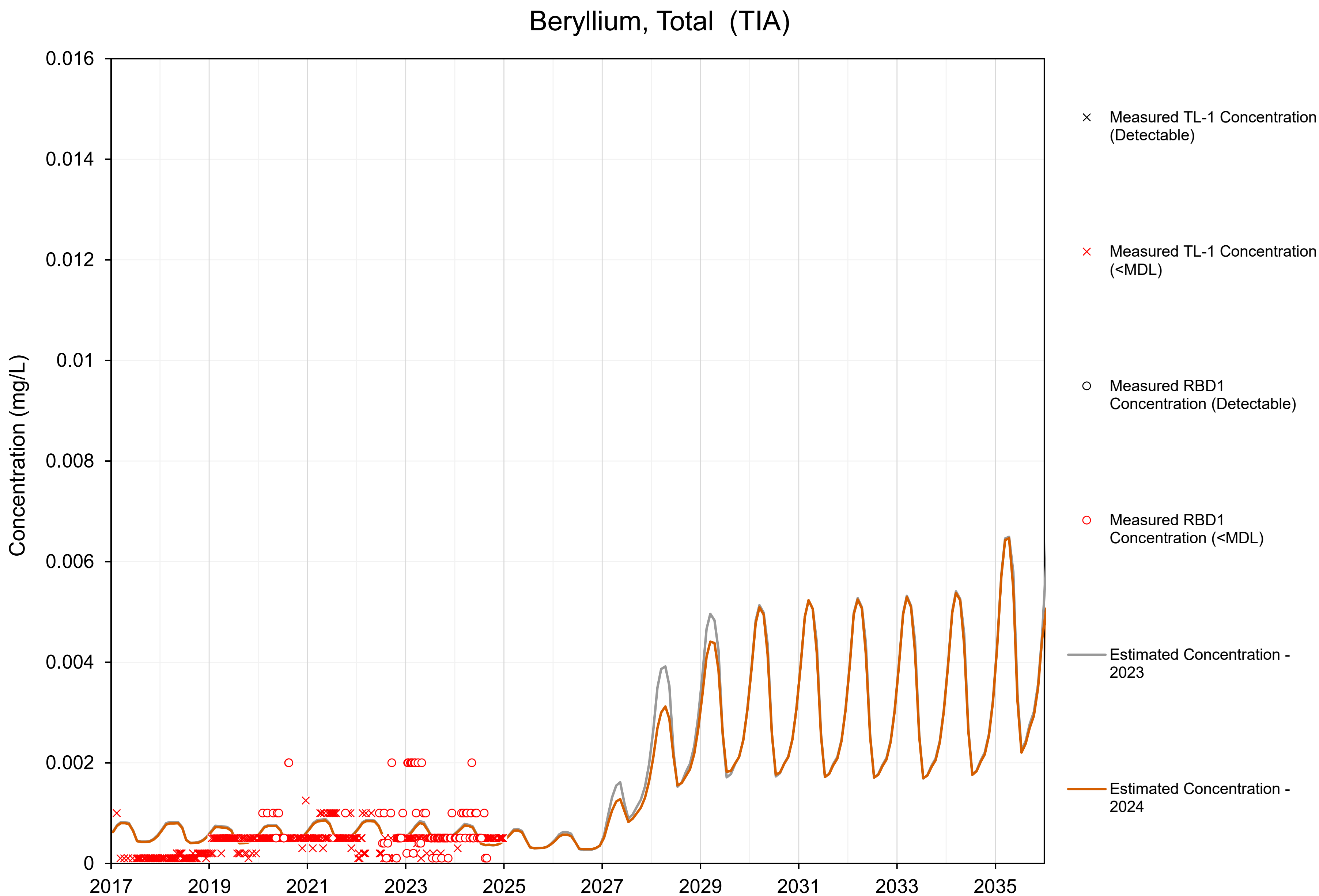

Phosphorus, Dissolved (TIA)
Concentration (mg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

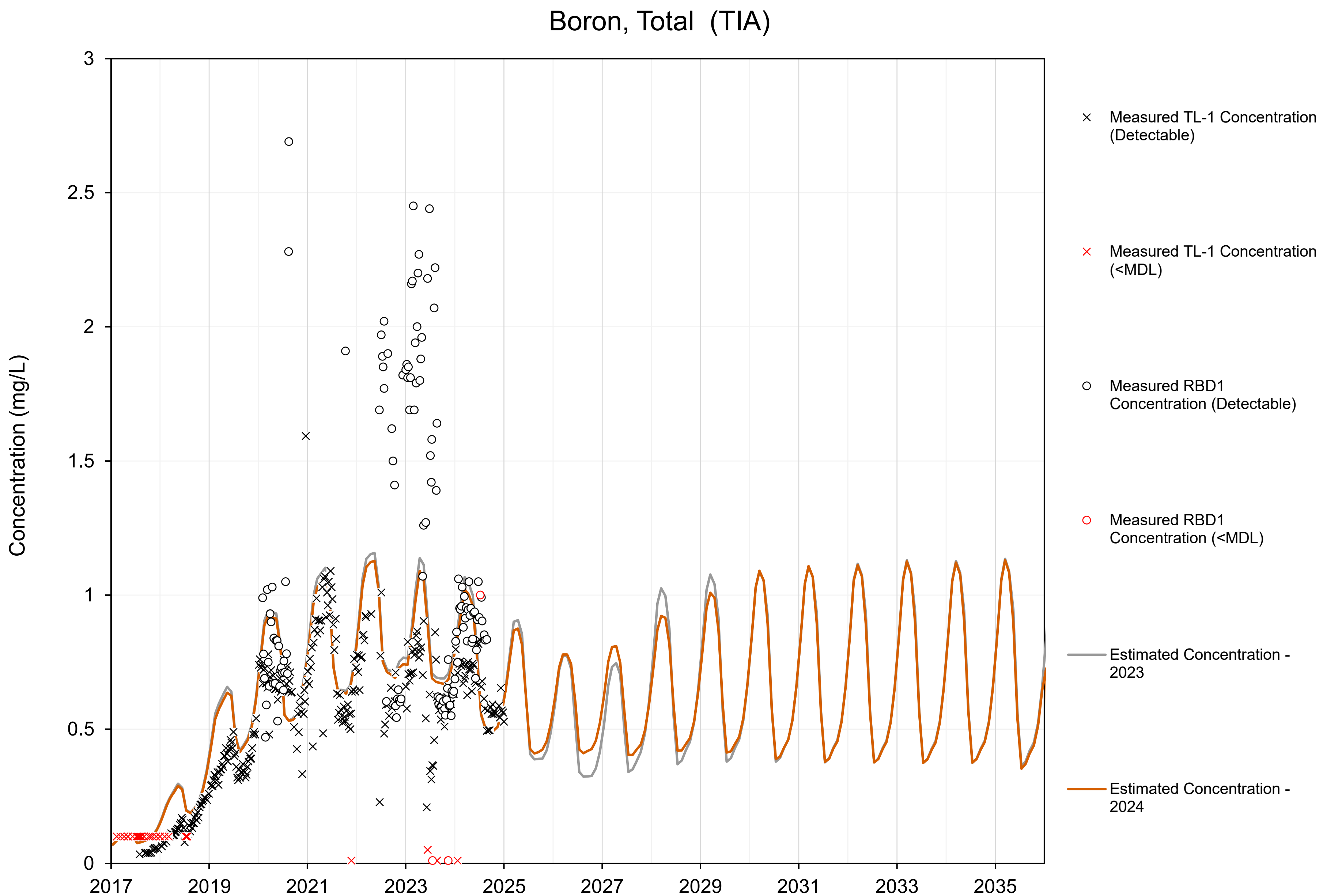

Aluminum, Total (TIA)
Concentration (mg/L)
0
1
2
3
4
5
6
7
8
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

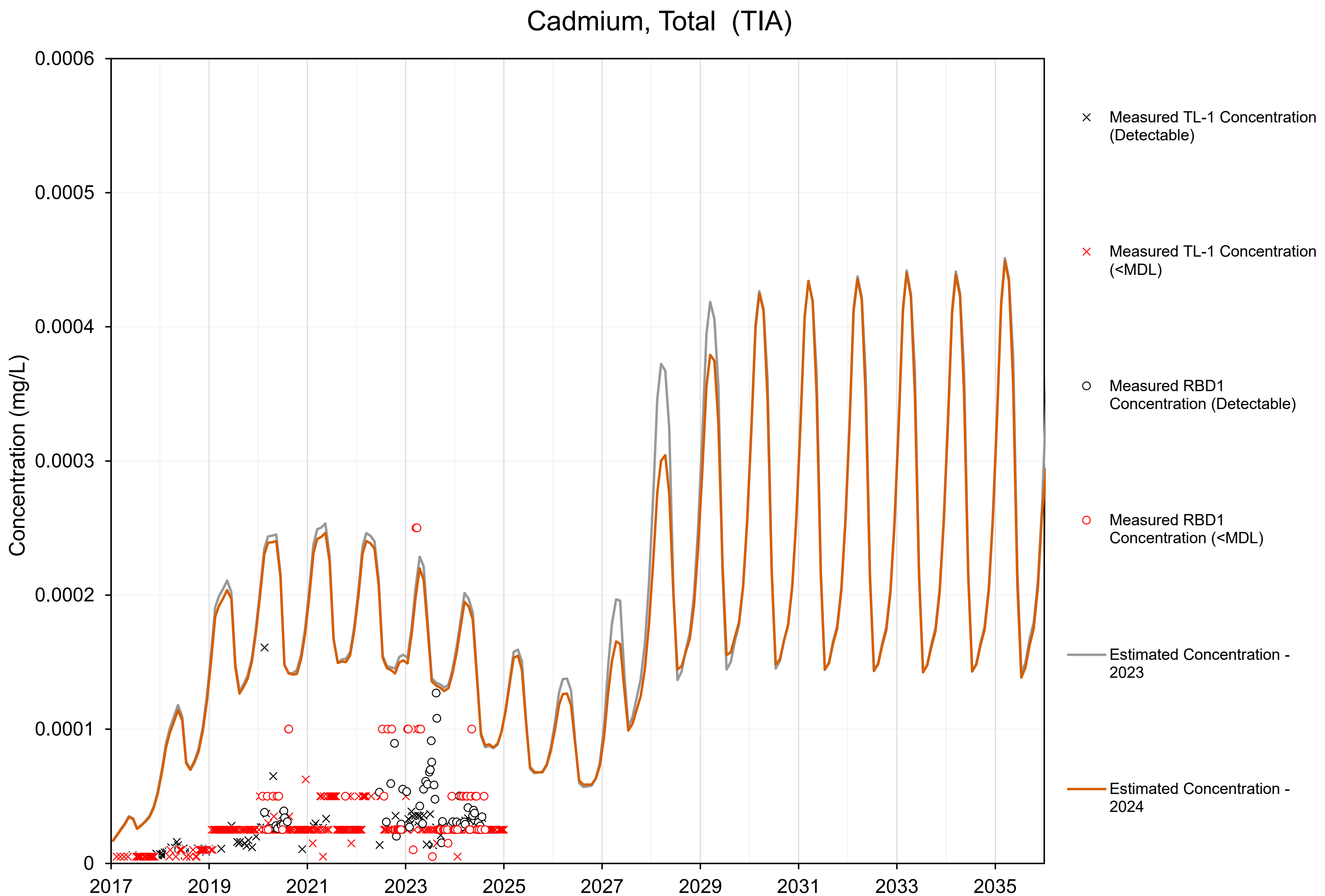

Antimony, Total (TIA)
Concentration (mg/L)
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

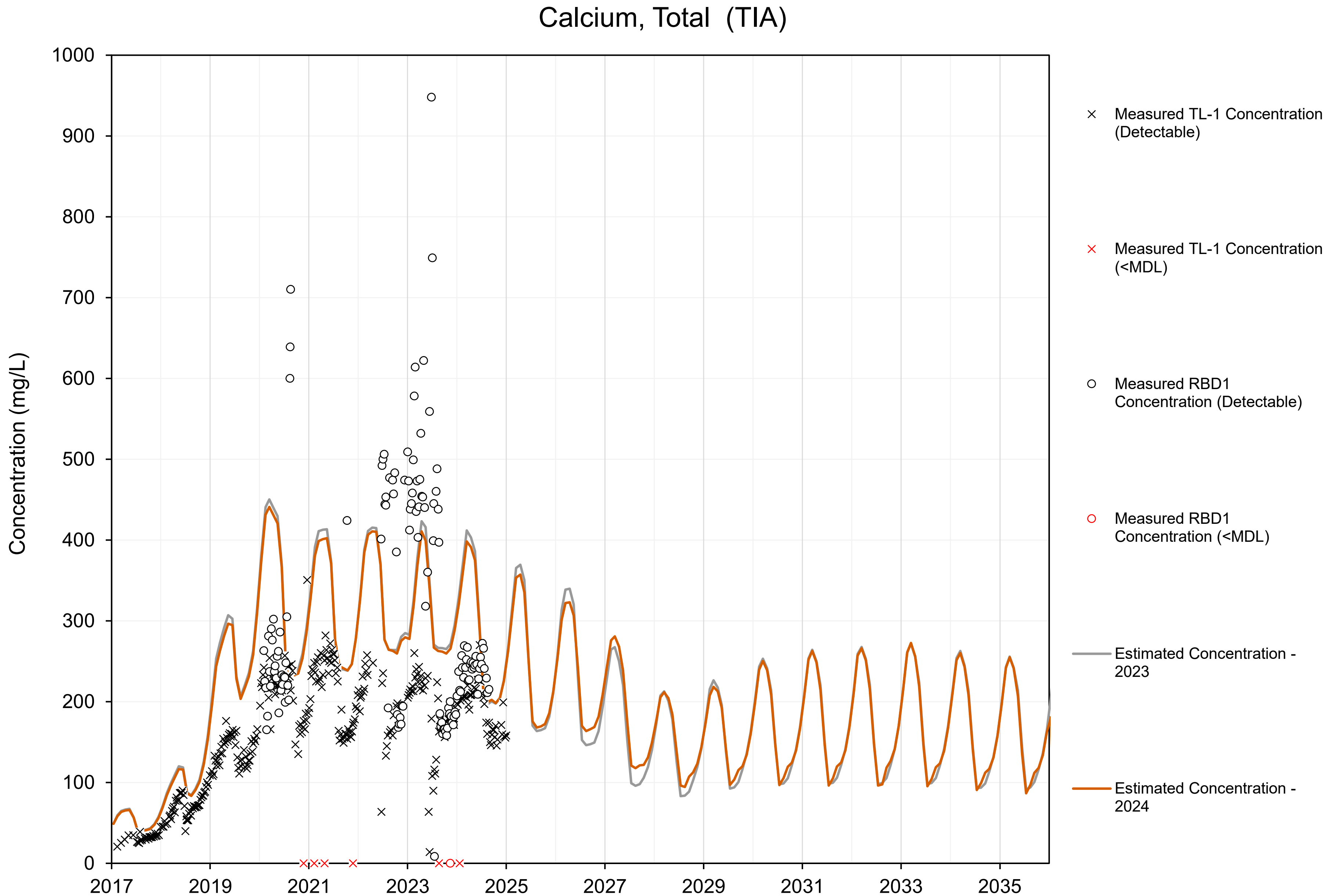

Arsenic, Total (TIA)
Concentration (mg/L)
1.2
1
0.8
0.6
0.4
0.2
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024
MDMER Maximum Authorized Monthly Mean Concentration
MDMER Maximum Authorized Monthly Mean Concentration (after June 1, 2021 amendment)

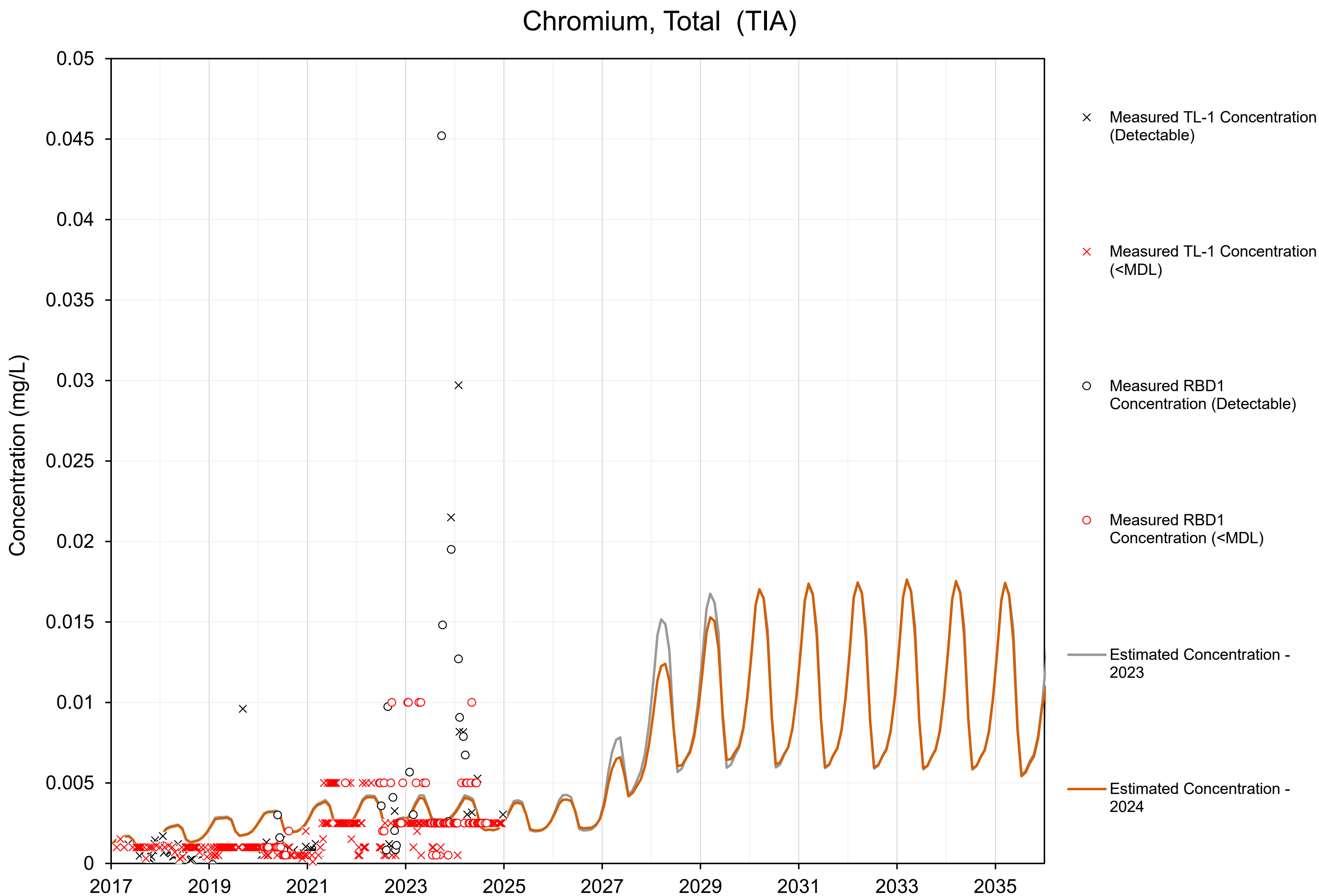

Barium, Total (TIA)
Concentration (mg/L)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

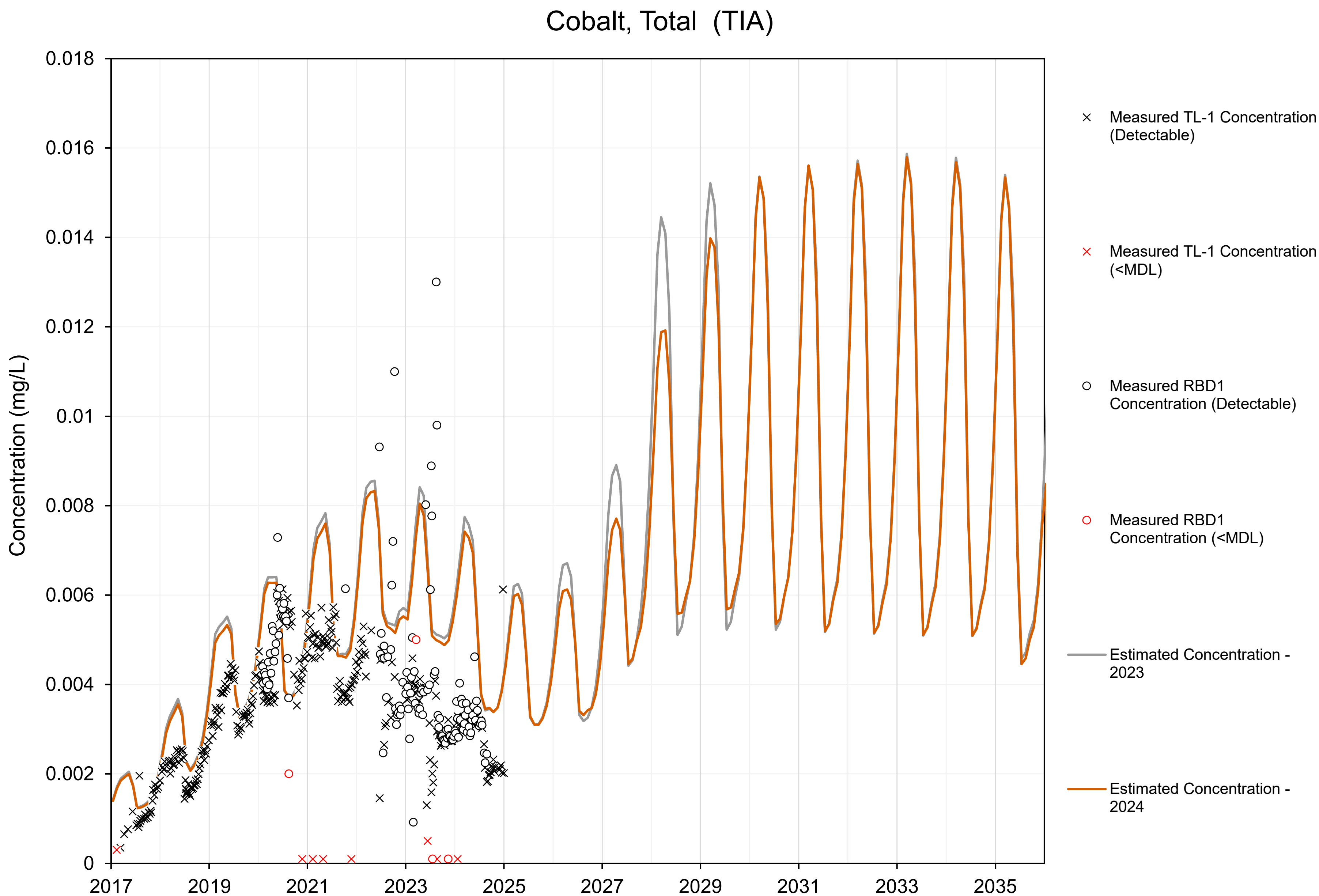

Beryllium, Total (TIA)
Concentration (mg/L)
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024


Boron, Total (TIA)
Concentration (mg/L)
0
0.5
1
1.5
2
2.5
3
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

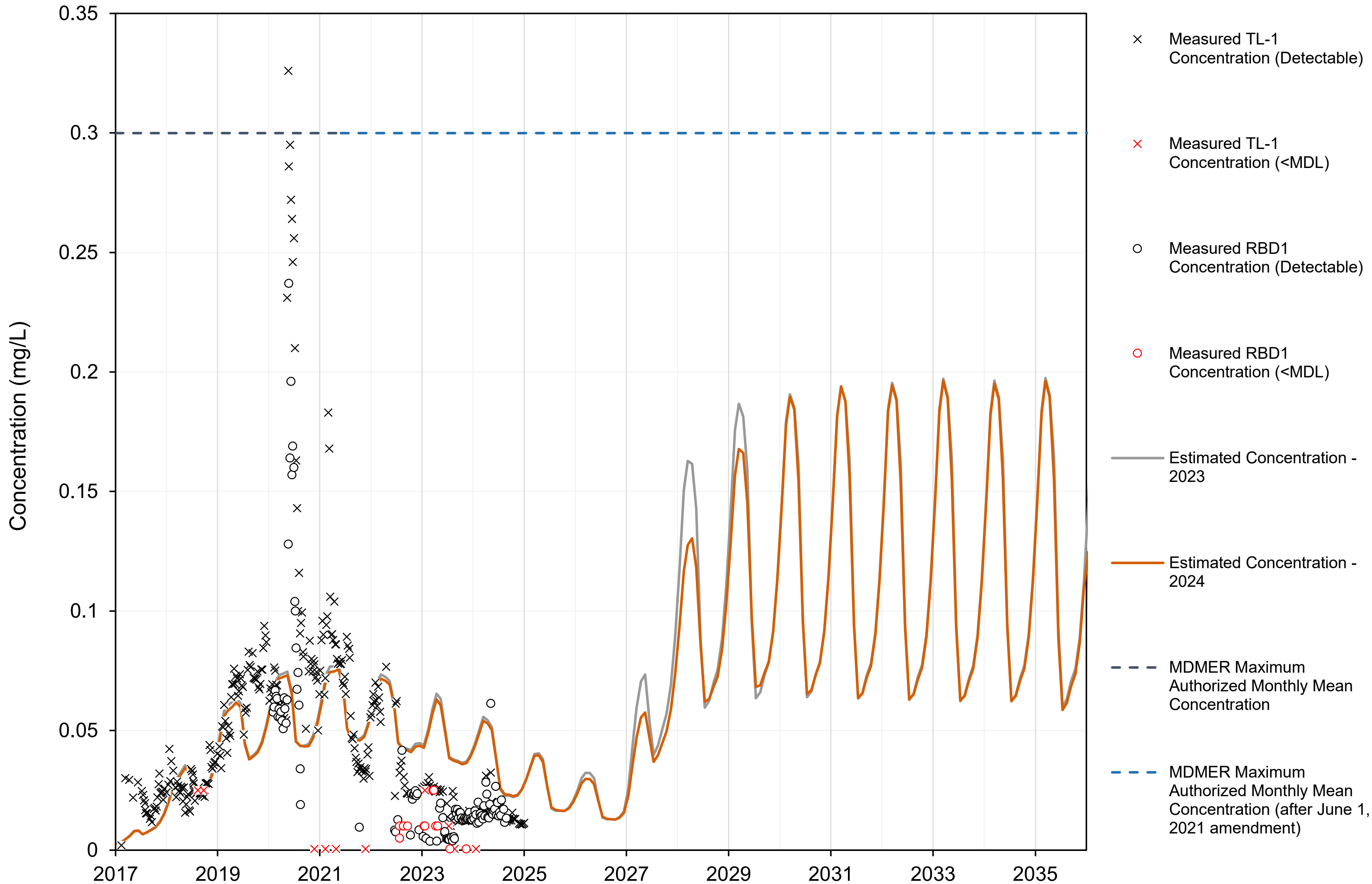

Cadmium, Total (TIA)
Concentration (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

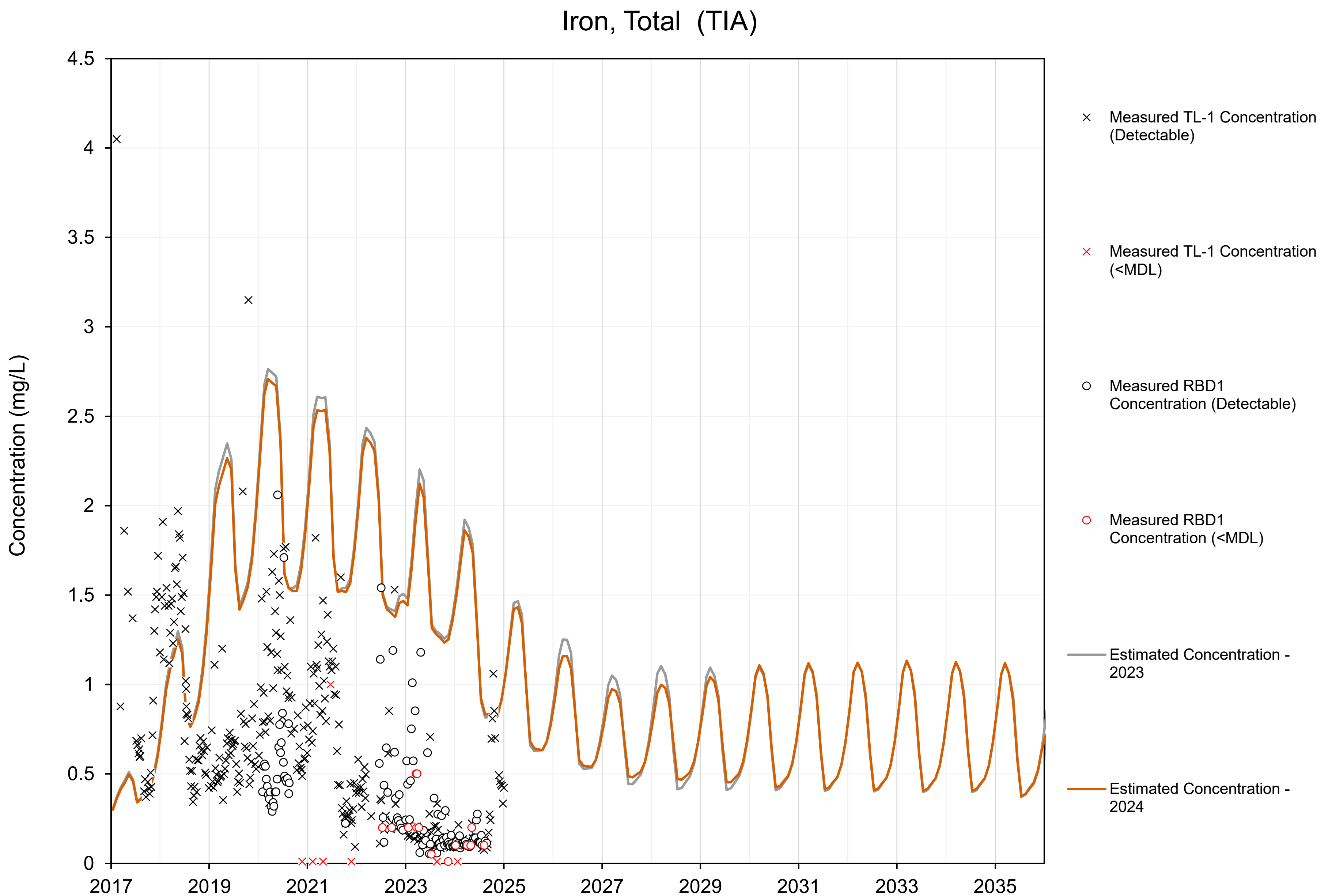

Calcium, Total (TIA)
Concentration (mg/L)
1000
900
800
700
600
500
400
300
200
100
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

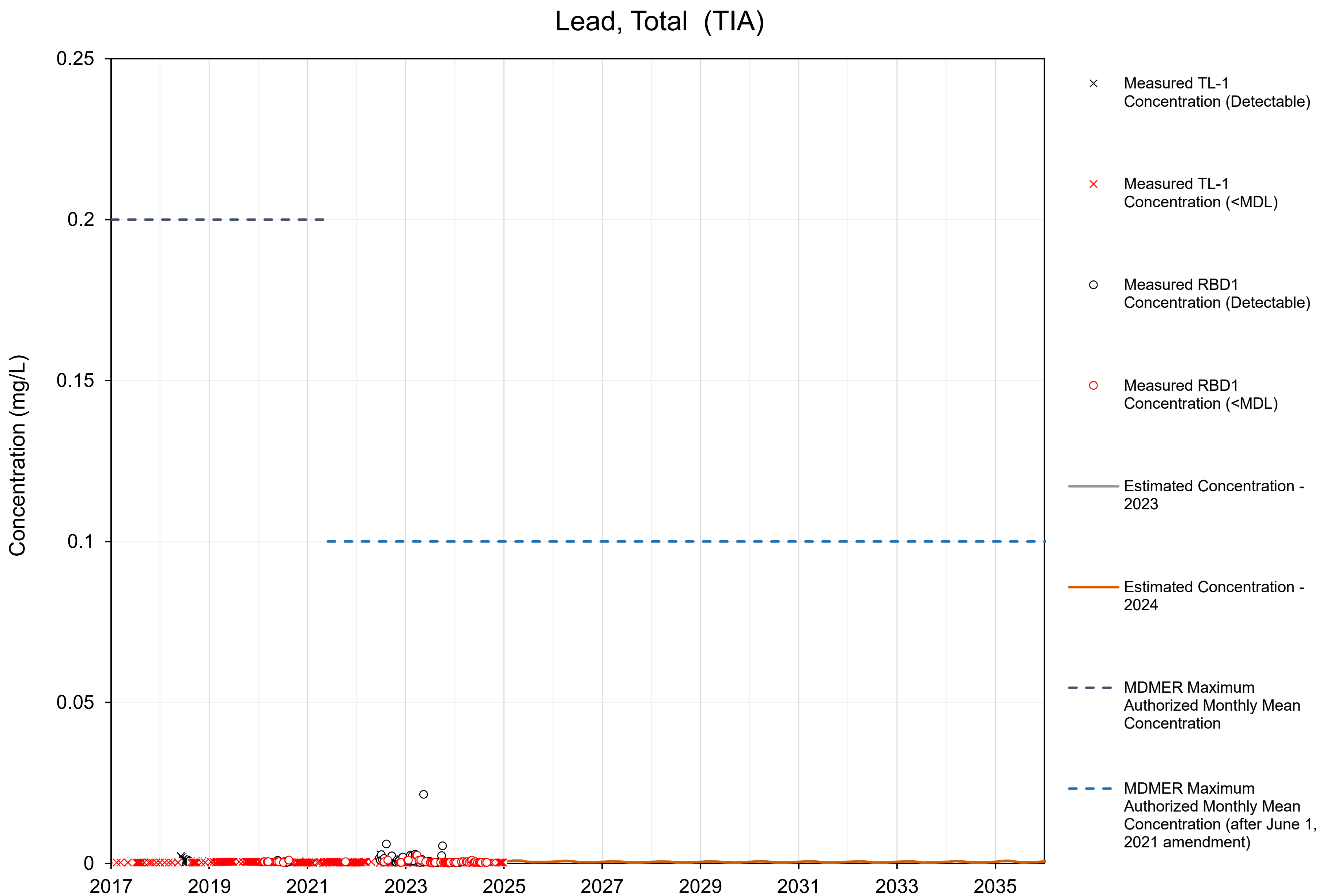

Chromium, Total (TIA)
Concentration (mg/L)
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

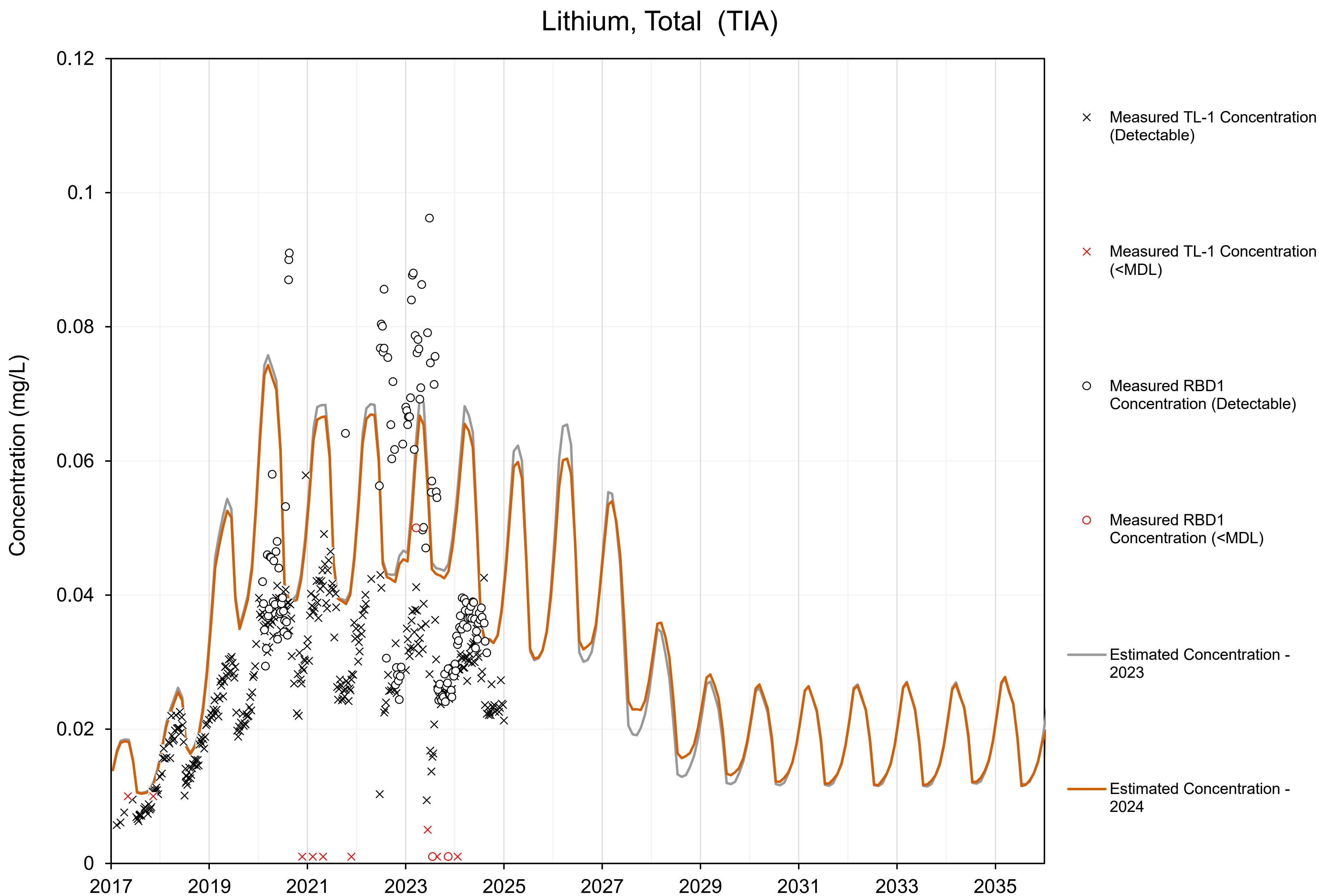

Cobalt, Total (TIA)
Concentration (mg/L)
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
0.016
0.018
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

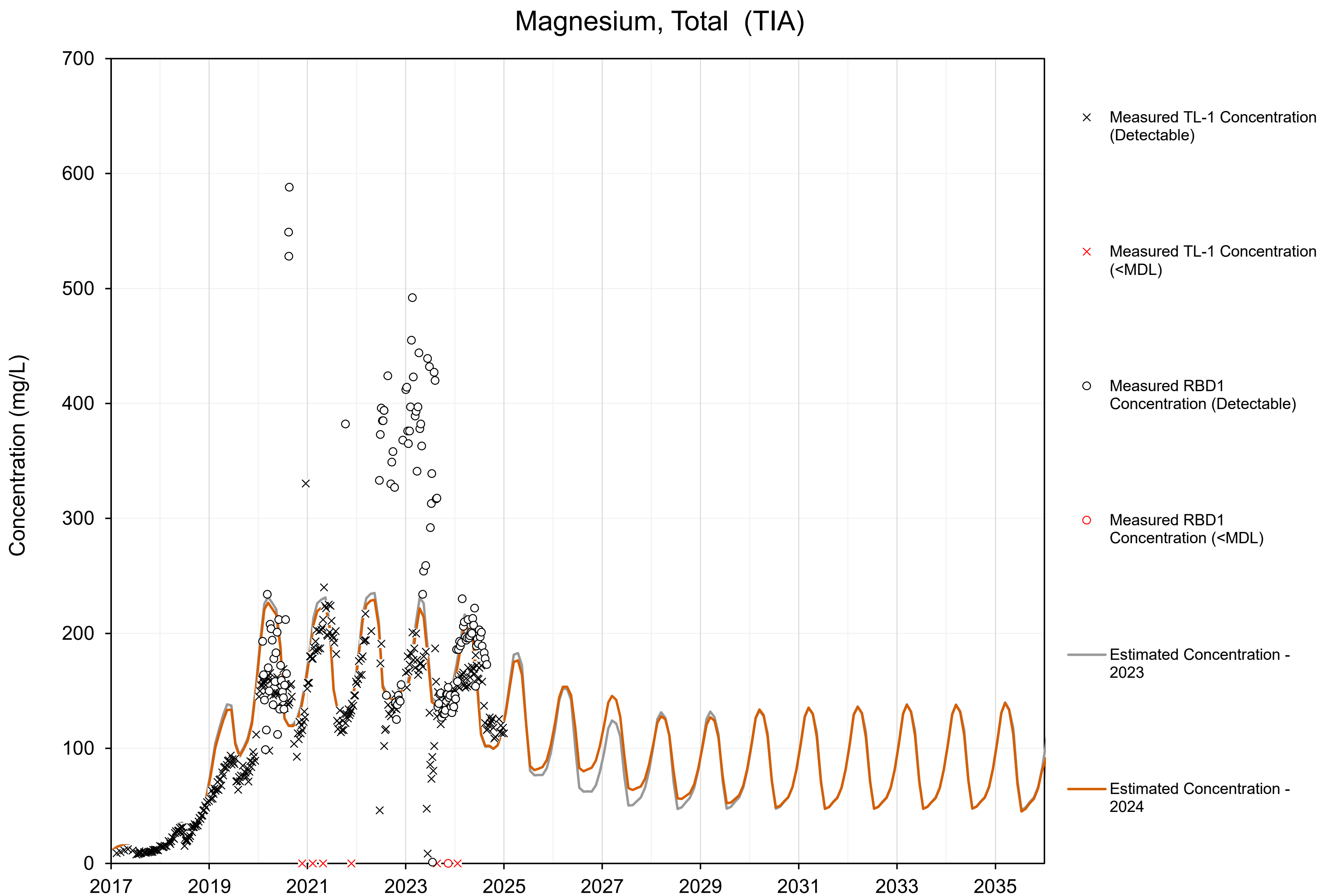
Copper, Total (TIA)

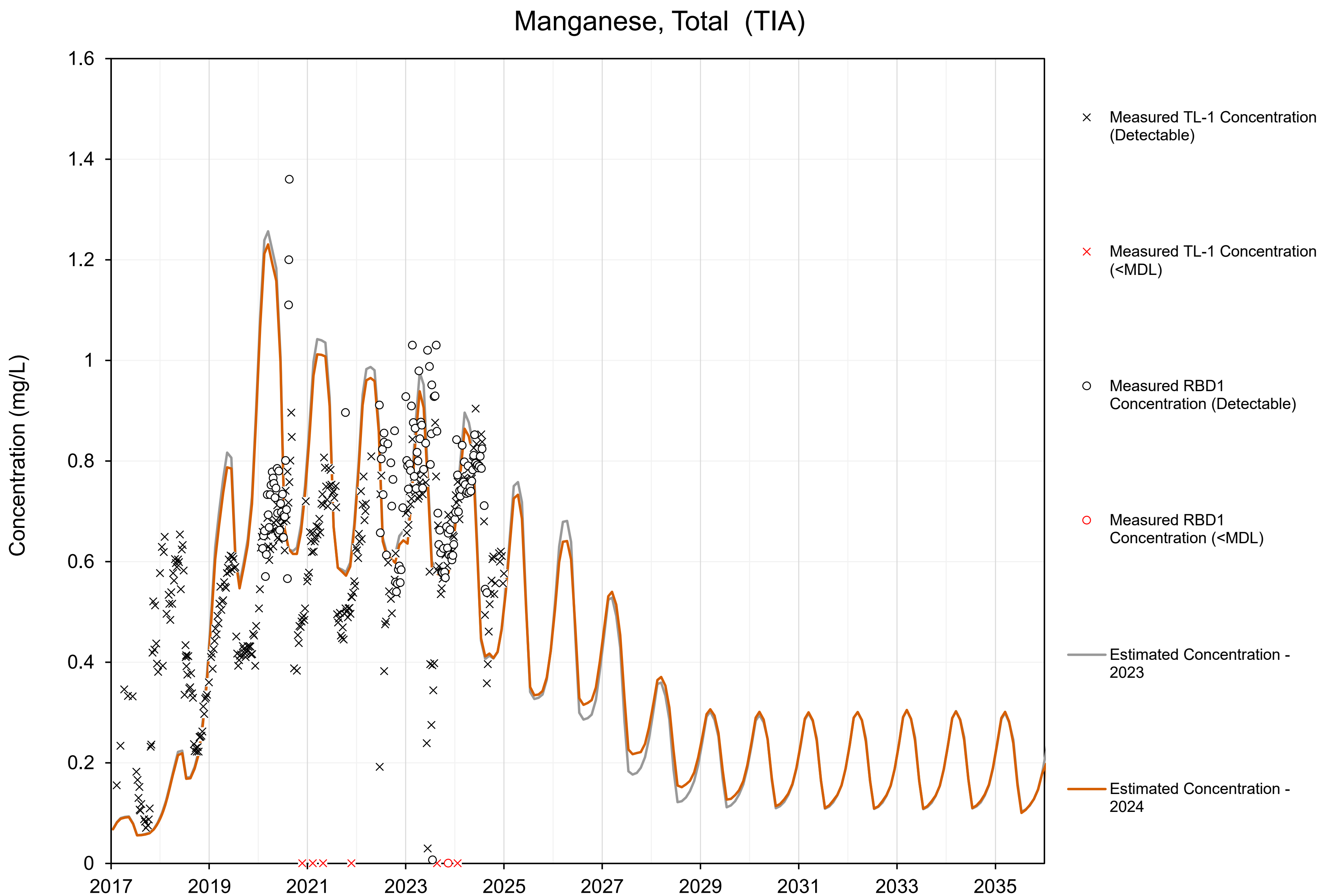


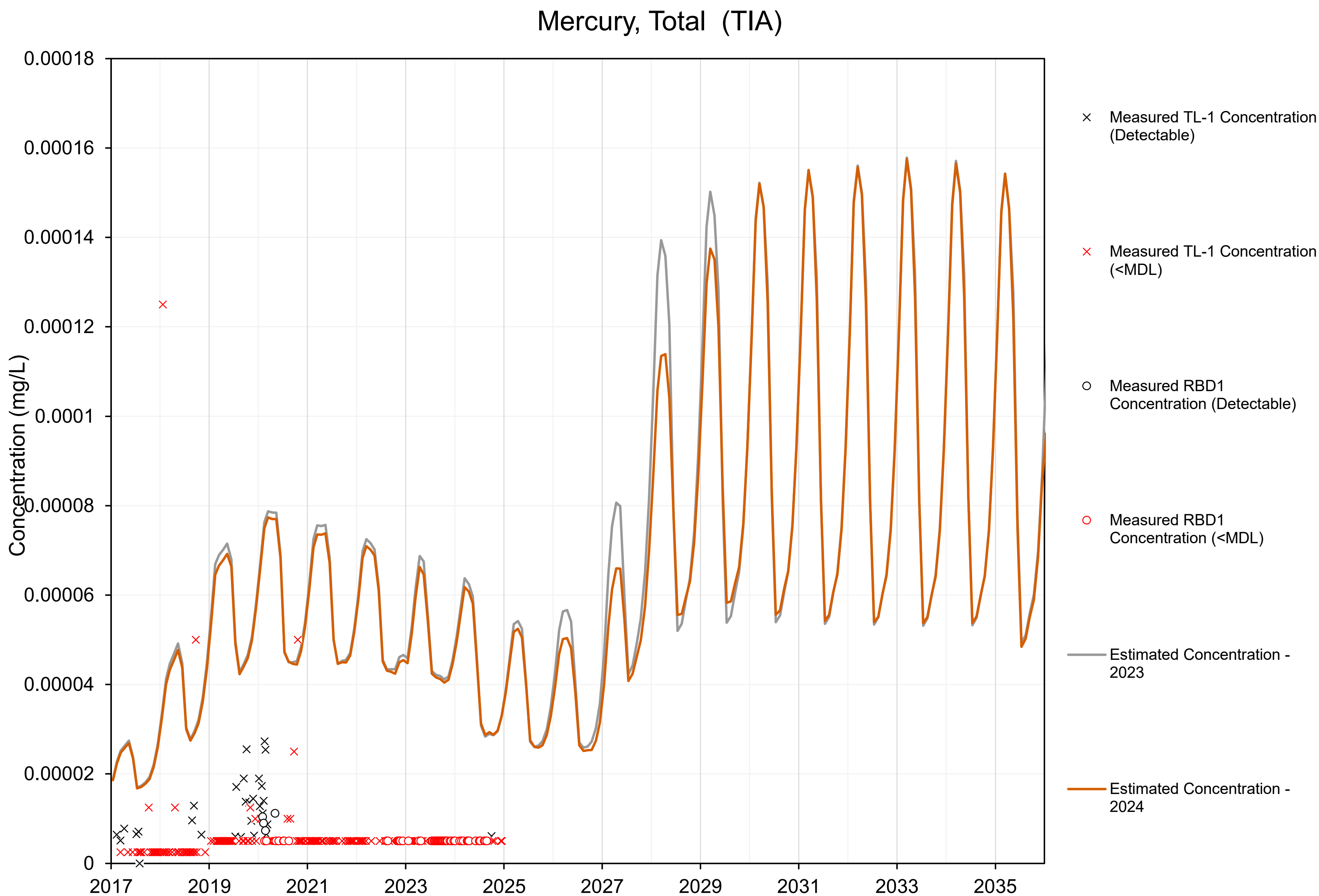

Iron, Total (TIA)
Concentration (mg/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

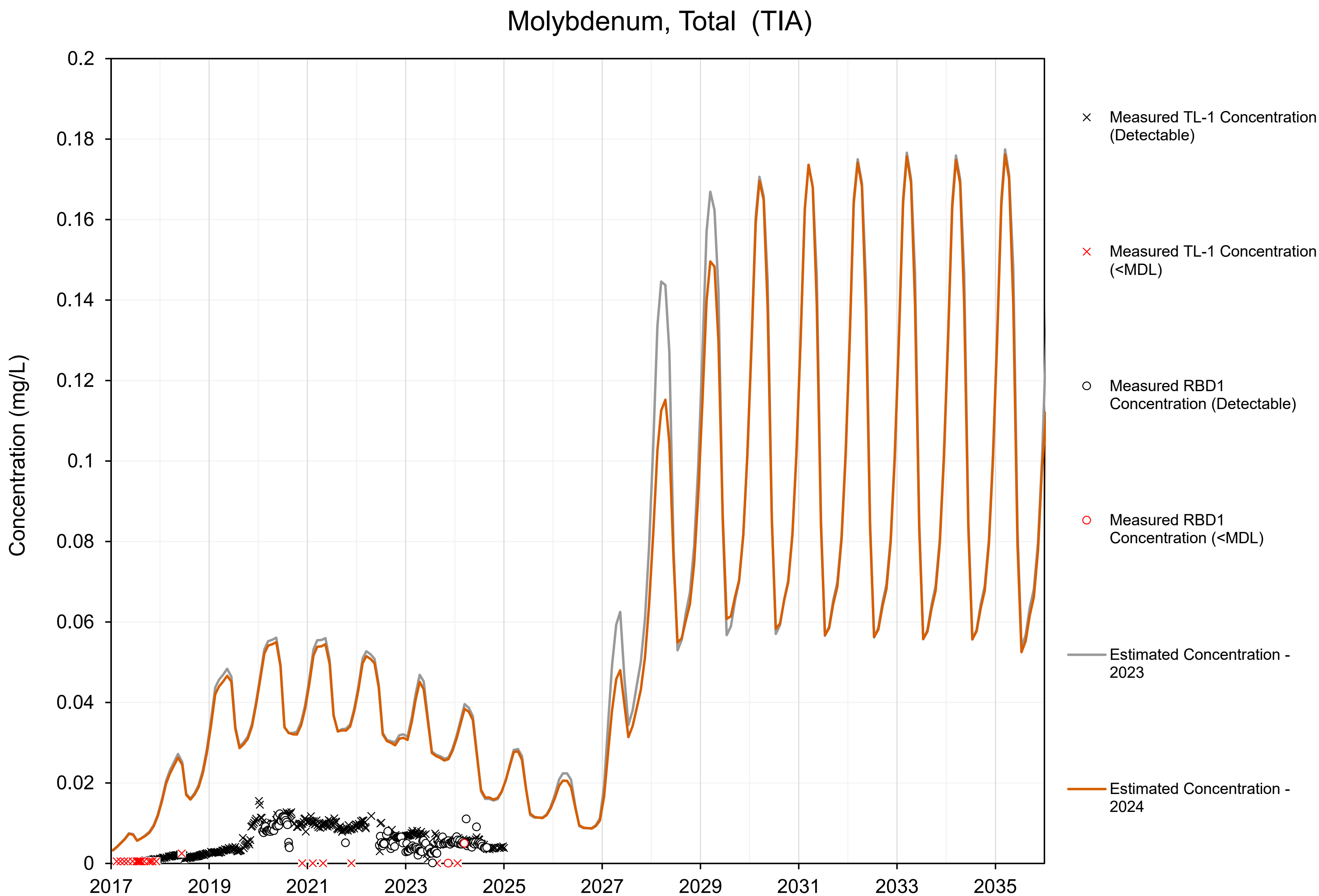

Lead, Total (TIA)
Concentration (mg/L)
0.25
0.2
0.15
0.1
0.05
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024
MDMER Maximum Authorized Monthly Mean Concentration
MDMER Maximum Authorized Monthly Mean Concentration (after June 1, 2021 amendment)

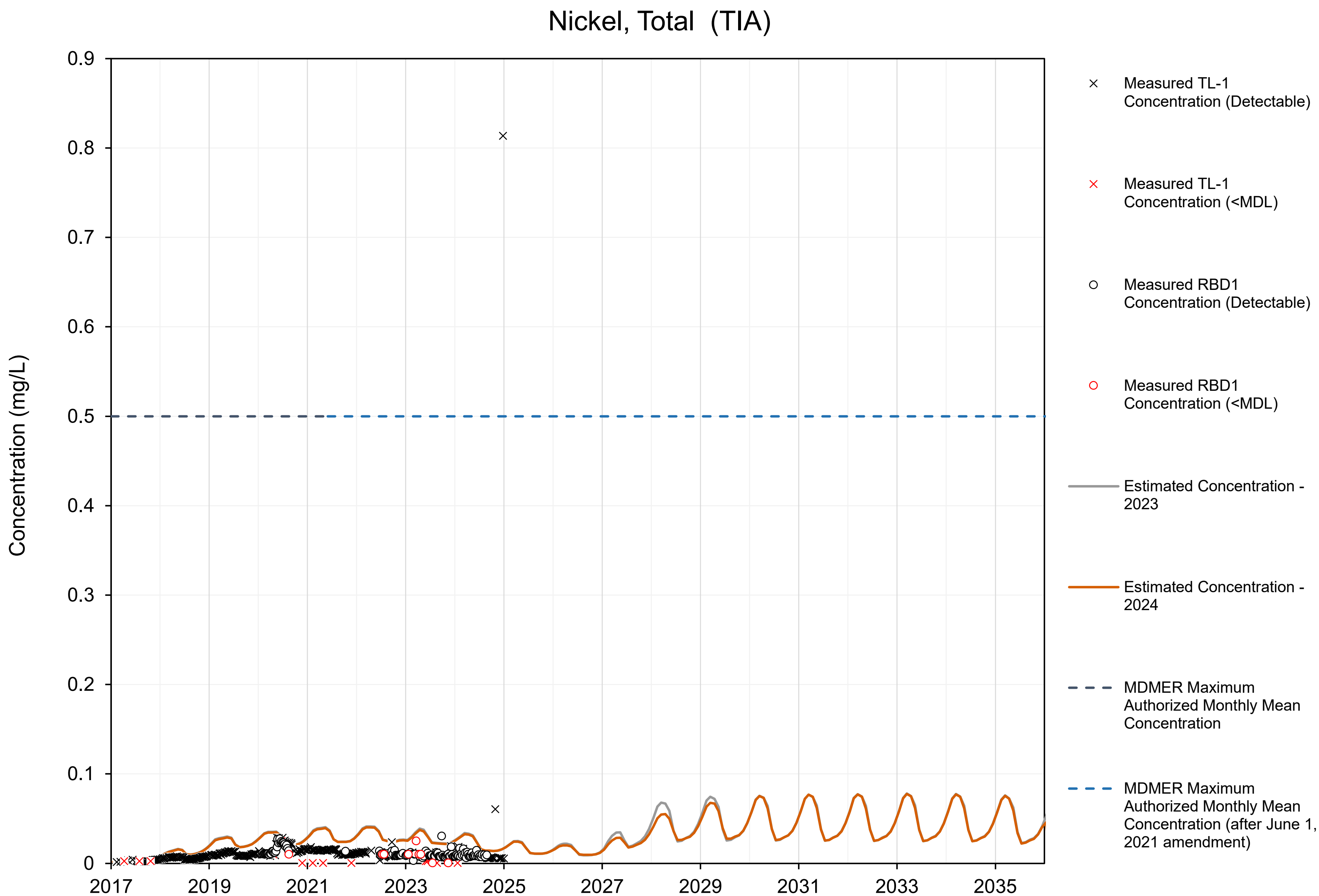

Lithium, Total (TIA)
Concentration (mg/L)
0.12
0.1
0.08
0.06
0.04
0.02
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

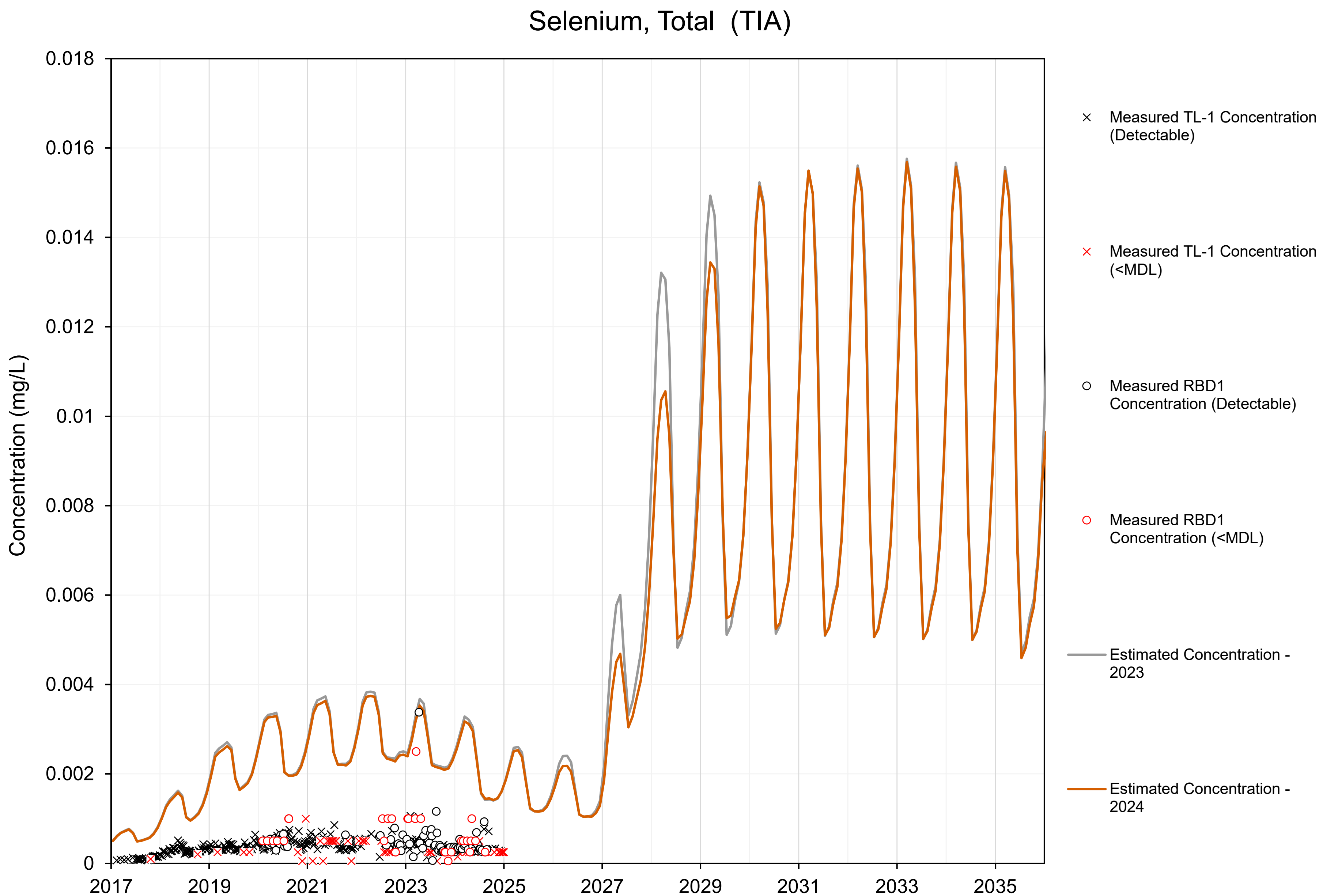

Magnesium, Total (TIA)
Concentration (mg/L)
0
100
200
300
400
500
600
700
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

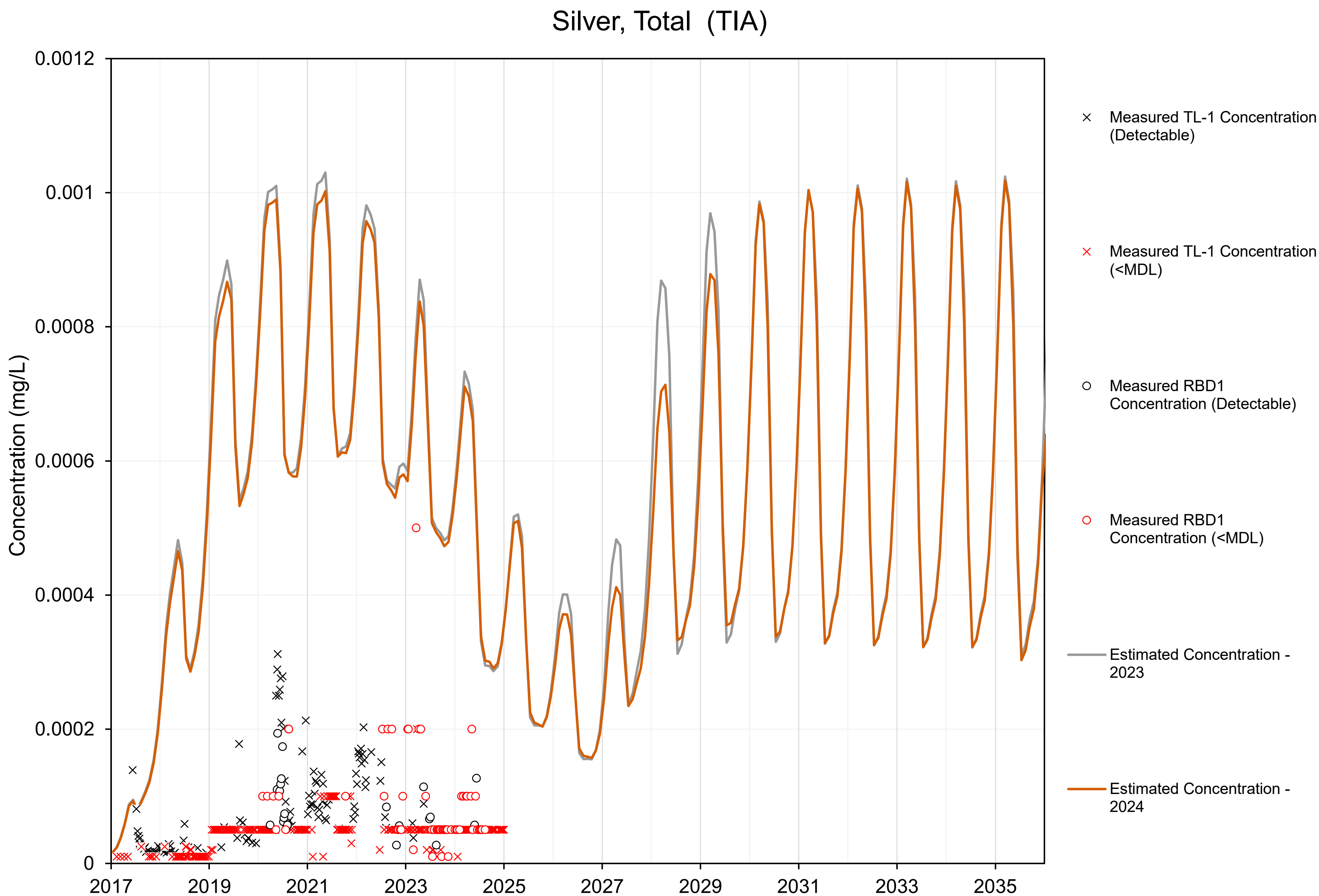

Manganese, Total (TIA)
Concentration (mg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

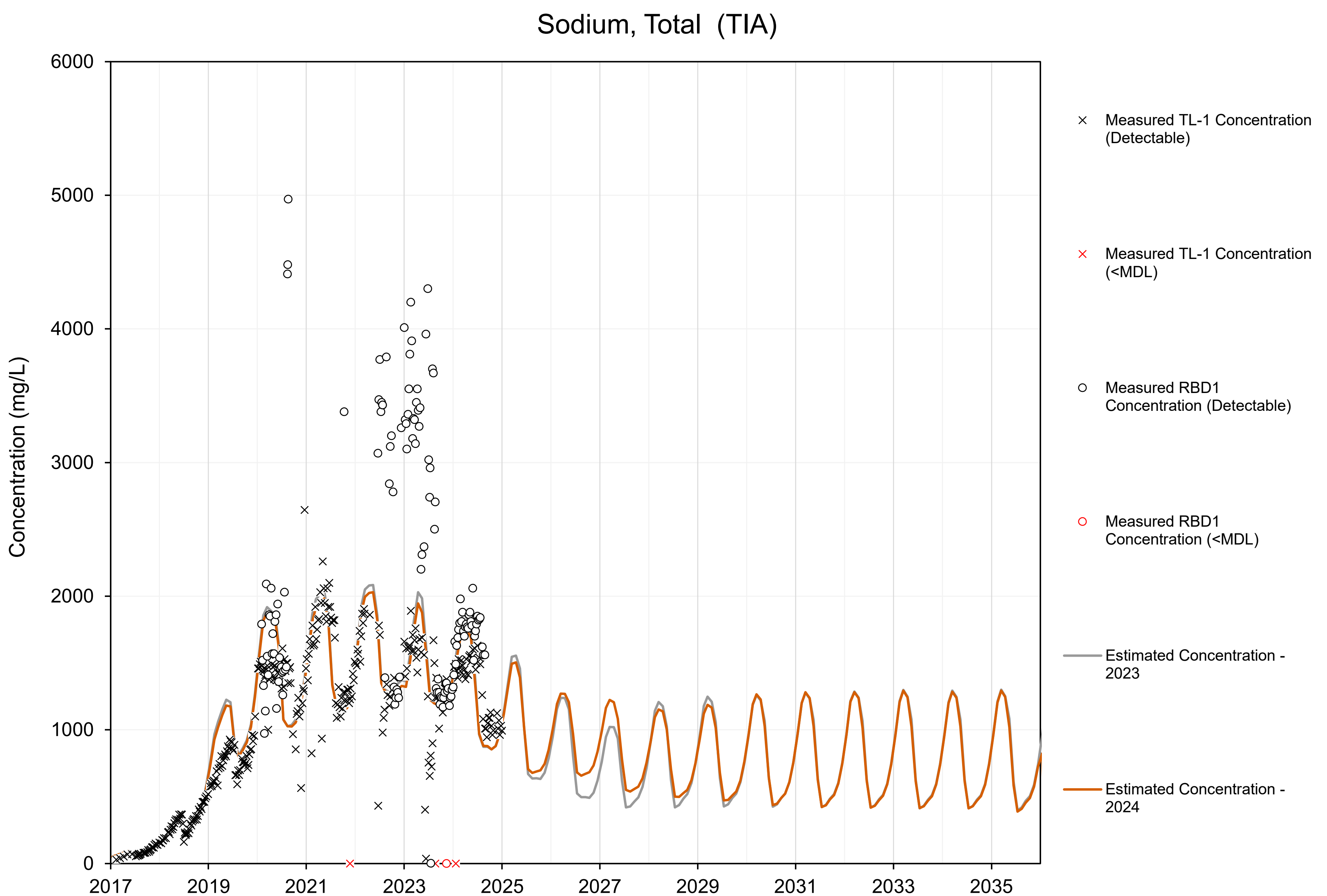

Mercury, Total (TIA)
Concentration (mg/L)
0.00018
0.00016
0.00014
0.00012
0.0001
0.00008
0.00006
0.00004
0.00002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

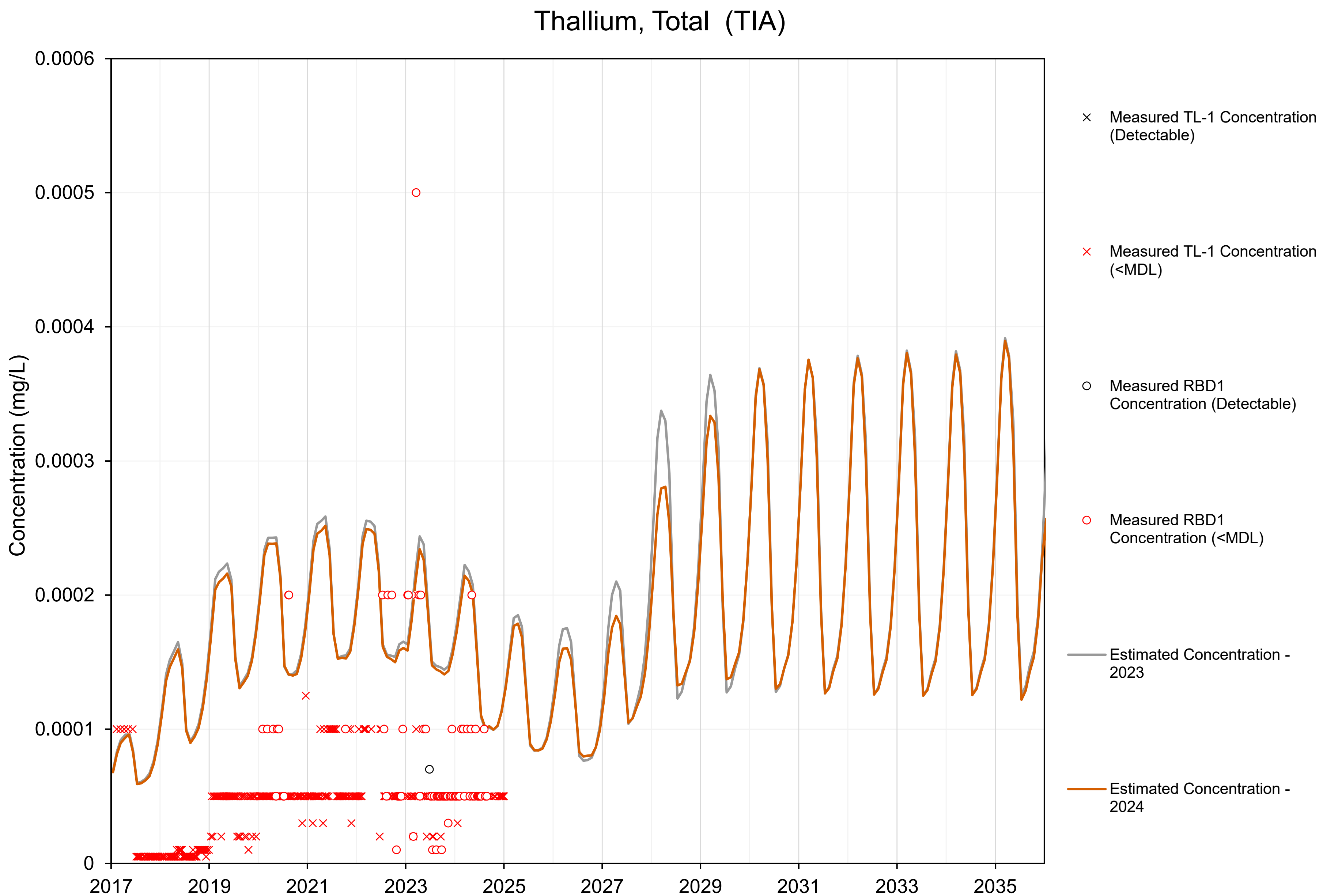

Molybdenum, Total (TIA)
Concentration (mg/L)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

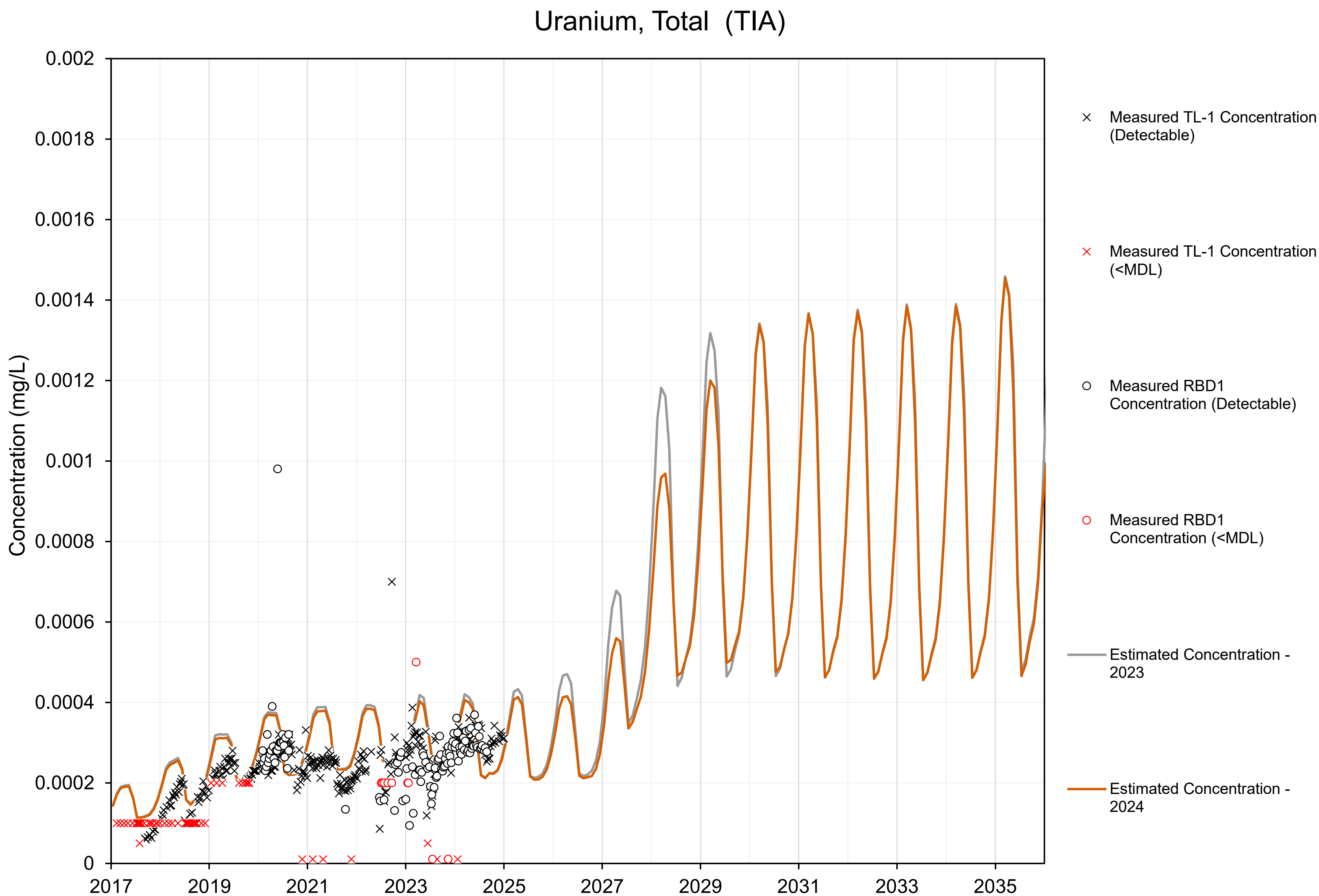

Nickel, Total (TIA)
Concentration (mg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024
MDMER Maximum Authorized Monthly Mean Concentration
MDMER Maximum Authorized Monthly Mean Concentration (after June 1, 2021 amendment)

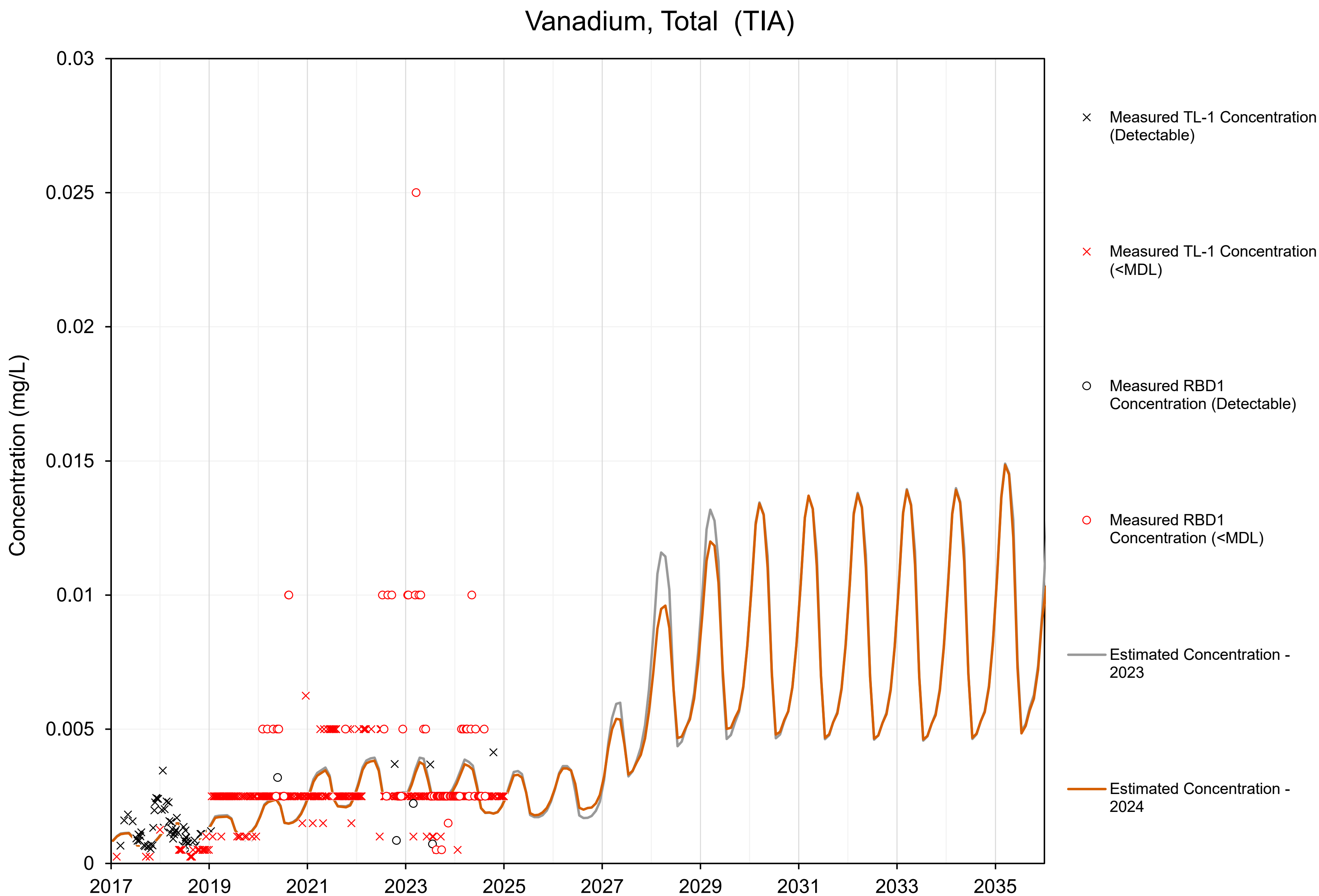

Selenium, Total (TIA)
Concentration (mg/L)
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

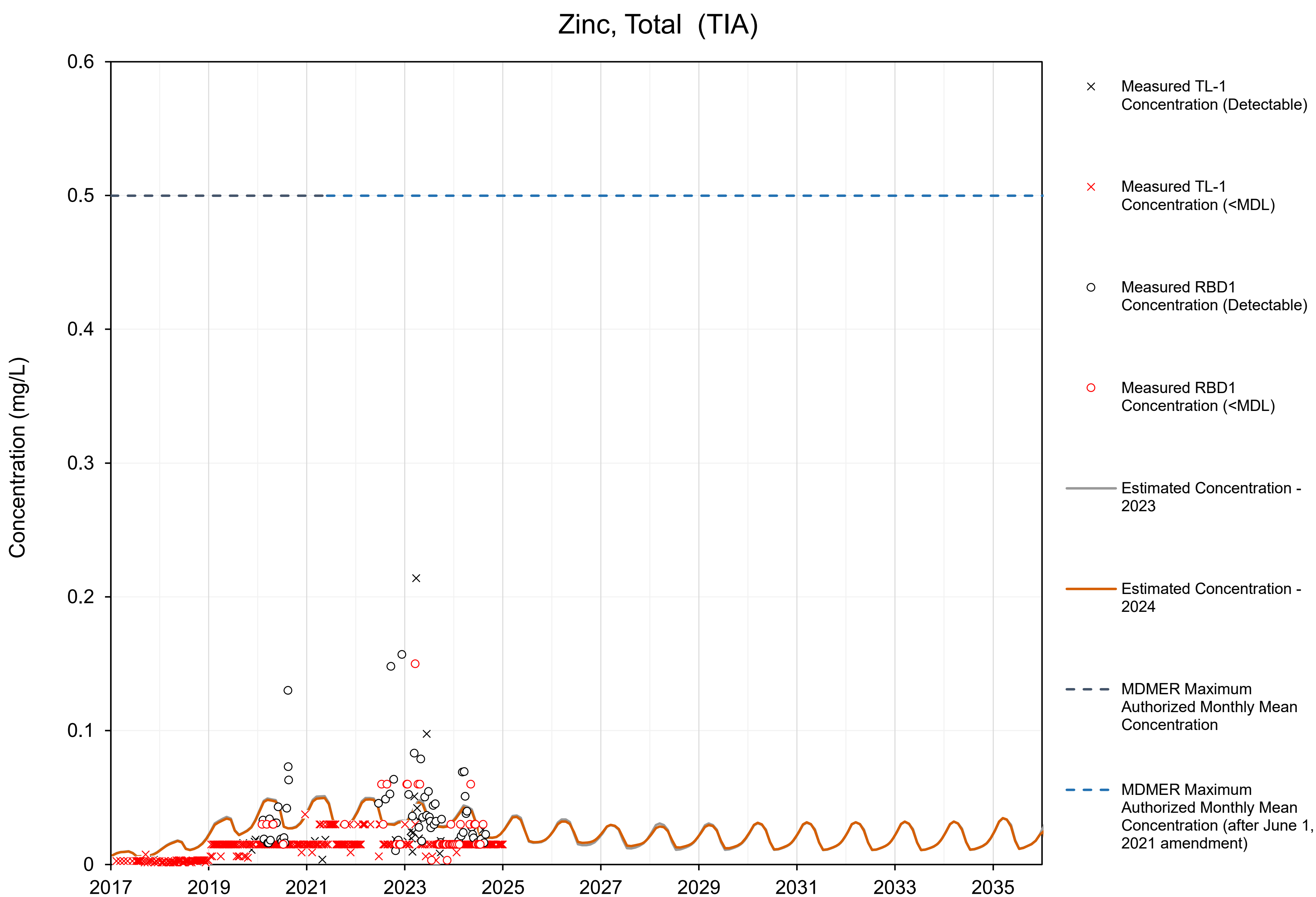

Silver, Total (TIA)
Concentration (mg/L)
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024

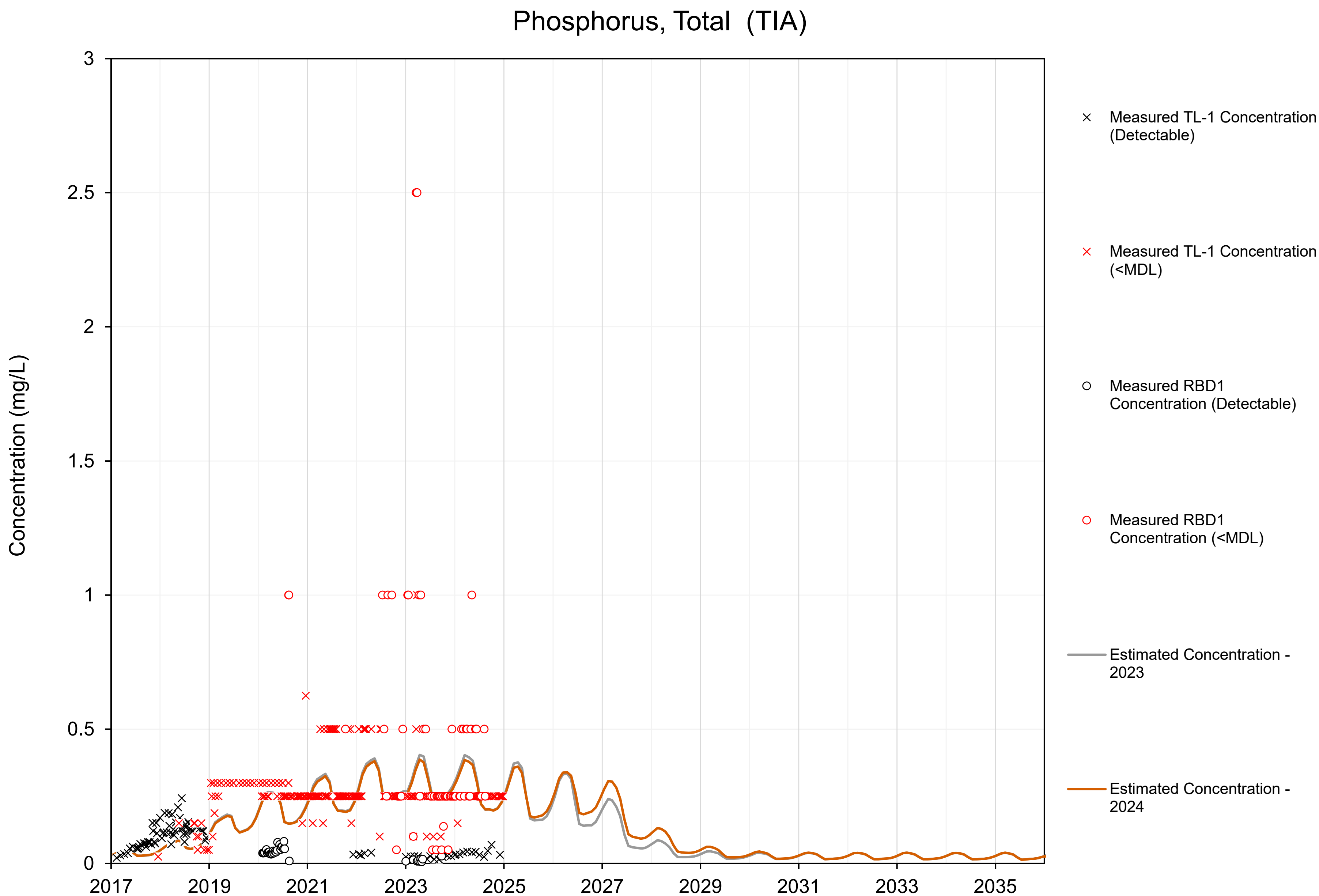

Sodium, Total (TIA)
Concentration (mg/L)
6000
5000
4000
3000
2000
1000
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024


Thallium, Total (TIA)
Concentration (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024


Uranium, Total (TIA)
Concentration (mg/L)
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024


Vanadium, Total (TIA)
Concentration (mg/L)
0.03
0.025
0.02
0.015
0.01
0.005
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024


Zinc, Total (TIA)
Concentration (mg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024
MDMER Maximum Authorized Monthly Mean Concentration
MDMER Maximum Authorized Monthly Mean Concentration (after June 1, 2021 amendment)


Phosphorus, Total (TIA)
Concentration (mg/L)
3
2.5
2
1.5
1
0.5
0
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
Measured TL-1 Concentration (Detectable)
Measured TL-1 Concentration (<MDL)
Measured RBD1 Concentration (Detectable)
Measured RBD1 Concentration (<MDL)
Estimated Concentration - 2023
Estimated Concentration - 2024