Wasing Quarry: Site Monitoring Plan

Prepared for Tarmac Trading Ltd.

December 2025

CONFIDENTIAL

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Quality Control Sheet

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Client	Tarmac Trading Ltd.
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Authors

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Approved by	Chris Woodhouse (Principal Hydrogeologist)	

Revision History

Revision	Details	Prepared by	Checked by	Approved by	Issue Date
REV01	Draft to Tarmac	JH	CDW	DT	27/04/2023
REV02	Final report	BLJ	CDW	CDW	23/12/2025

Contents

Figures

Tables

Appendices

1 INTRODUCTION

1.1 Background

Tarmac Trading Ltd (Tarmac) has planning permission to work sand and gravel mineral in three phases and restore to agricultural land using inert restoration materials at Wasing Quarry (the Site) near Woolhampton, Berkshire. Tarmac proposes to carry out the backfilling and Site restoration under the terms of a Deposit for Recovery Environmental Permit. The application for the Environmental Permit is being made by Envireau Water on behalf of Tarmac. Full details of the proposed infilling operation and Site restoration are set out in the Environmental Site Setting and Design (ESSD) report that accompanies the application (Envireau Water, 2025a).

This report is the Site Monitoring Plan (SMP) prepared in support of the permit application.

1.2 Scope of Work

This SMP has been prepared in accordance with Environment Agency guidance (Environment Agency, 2003) and the findings of the Hydrogeological Risk Assessment (Envireau Water, 2025b). This SMP should be read in conjunction with the HRA and ESSD (Envireau Water, 2025a) and includes the following:

- Groundwater monitoring scheme including Control Levels and Compliance Limits (Section 2);
- Surface water monitoring scheme including Control Levels and Compliance Limits (Section 3); and
- Other monitoring requirements (Section 4).

1.3 Data Sources

The information and assessments in this report are based on:

- Proposed development and restoration plans provided by Tarmac;
- Groundwater and surface water quality data collected by Tarmac; and
- Reports for the Site by Envireau Water (2025a and 2025b).

2 GROUNDWATER MONITORING

2.1 Monitoring Locations

Groundwater quality in the Beenham Grange Gravel Member will be monitored at the monitoring boreholes listed in Table 1 and shown on Figure 1. The monitoring boreholes are situated such that there are at least one up-gradient and two down-gradient groundwater monitoring wells at each phase. (see Table 1 and Envireau Water, (2025a)).

Table 1 Groundwater monitoring boreholes

Borehole	Easting	Northing	Rationale
WMP1	458112	166172	Downgradient of Phase B
WMP3	457902	165517	Next to Stream A, downgradient of Phase A
WMP4	457129	165026	Upgradient of Phase A
WMP5	458612	165666	Downgradient of Site, east of Phase C
WMP7	457708	166258	Cross gradient to Phase B
WMP10	458340	166229	Next to Spring Ditch, downgradient of Phase B
WMP14	457561	164960	On Wasing Lane, upgradient of the Site
WMP15	458353	165344	Upgradient of Stream B
WMP16	458368	166009	Next to River Enborne, downgradient of Phase C
WMP17	457503	165624	Next to River Enborne, cross gradient to Phase A
P5	457285	166112	On Station road, upgradient of Site

Monitoring will only be carried out in the Beenham Grange Gravel Member and no monitoring will be carried out in the underlying London Clay Formation. This is because the London Clay Formation is a low permeability unit and will not receive a contaminant flux from the restoration material. Flux from the restoration material will be confined to the Beenham Grange Gravel Member.

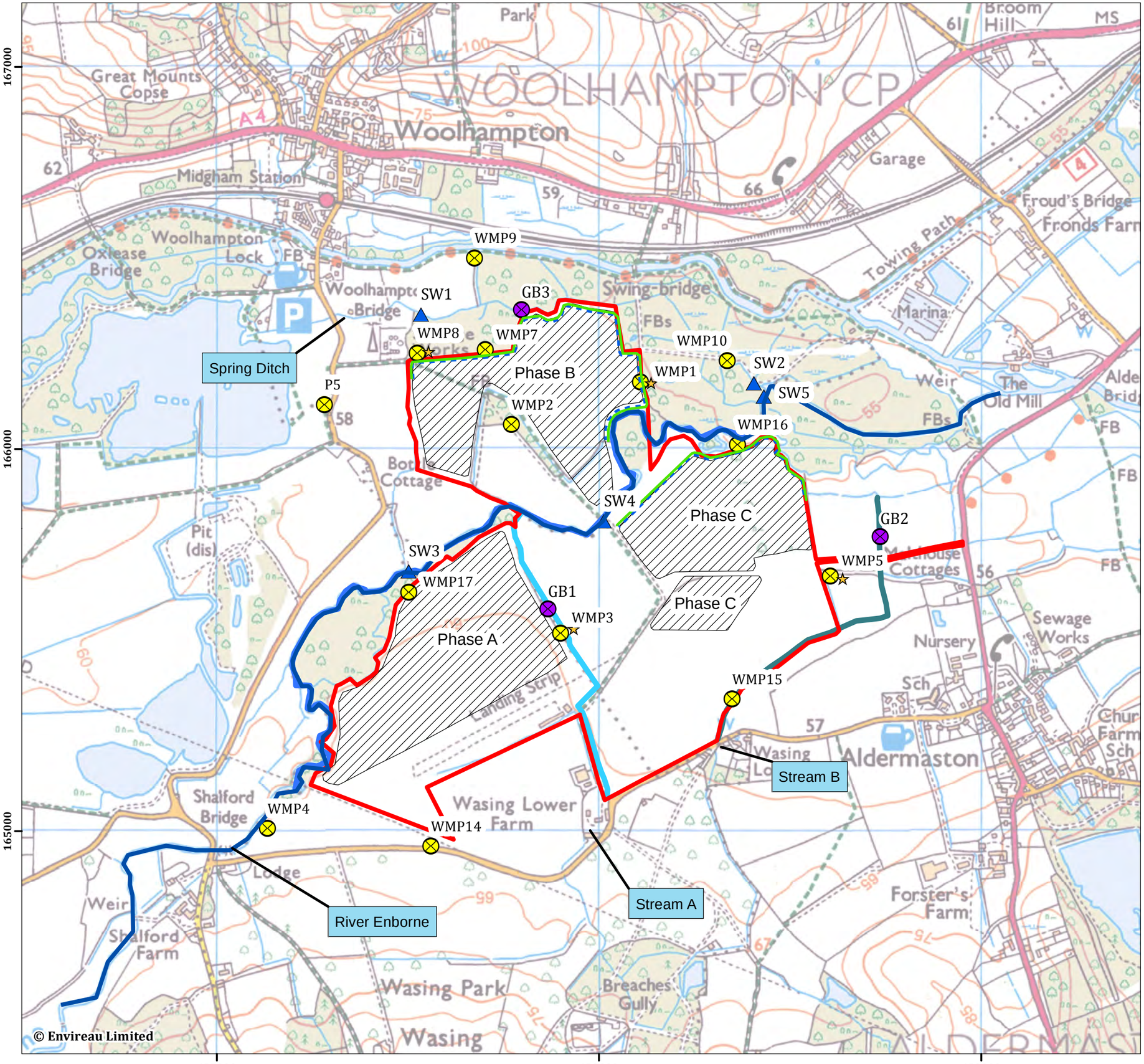
2.2 Monitoring Measurements and Schedules

Groundwater quality and groundwater levels will be measured on a monthly basis while the permit is active with the exception of WMP14. WMP14 has been included as an additional upgradient monitoring borehole to the south to provide further background information on any changes in groundwater quality. Therefore, this location has a reduced monitoring frequency.

The parameters to be measured and frequencies are detailed in Table 2. Although organics are not anticipated in the inert restoration materials to be accepted at the Site, they have been detected in groundwater (Envireau Water, 2025a). Therefore, annual monitoring is proposed to monitor any trends that could be related to Site activities.

Figure 1: Scheme of Monitoring

Woolhampton, West Berkshire



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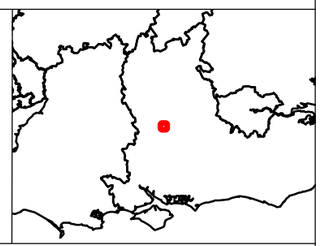
- Excavation Areas
- Surface Water Monitoring Locations
- Groundwater Monitoring Locations
- Gauge Board Monitoring Locations
- Monitoring Points with Loggers
- Wasing Quarry Site Boundary
- River Enborne
- River Enbourne Discharge Reach
- Stream A Discharge Reach
- Stream B Discharge Reach
- Proposed Recharge Trench
- Lined Section

Notes:



0 125 250 375 500 Meters

Scale: 1:10,000 at A3

12 July 2024

NGR: 457,953 E / 165,792 N

Project No.	3490098
Client:	Tarmac Trading Ltd.
Drawn by:	JFR
Ref:	FIG 6 Scheme of monitoring

envireau WATER

Table 2 Groundwater monitoring determinands and sampling frequency

Locations	Water Level monitoring	Water Quality Monitoring	
		Determinands	Frequency for Water Quality Samples
WMP1 WMP3 WMP4 WMP5 WMP7 WMP10 WMP15 WMP16 WMP17 P5	Monthly	Field: pH, EC, Temp, Laboratory: pH, EC, Alkalinity as CaCO3, ammoniacal nitrogen, chloride, nitrate, nitrite, sulphate, calcium, sodium, magnesium, potassium, arsenic, iron, manganese, antimony, cadmium, chromium, copper, lead, nickel, selenium, zinc, barium, mercury, molybdenum, antimony, fluoride	Monthly for 12 months, and then reduce to quarterly. Frequencies would be increased as required in accordance with Section 4
WMP14	Monthly	Field: pH, EC, Temp, Laboratory: pH, EC, Alkalinity as CaCO3, ammoniacal nitrogen, chloride, nitrate, nitrite, sulphate, calcium, sodium, magnesium, potassium, arsenic, iron, manganese, antimony, cadmium, chromium, copper, lead, nickel, selenium, zinc, barium, mercury, molybdenum, antimony, fluoride	Quarterly. Frequency would be increased if required in accordance with Section 4

2.3 Control Levels and Compliance Limits

2.3.1 Locations and values

Control Levels and Compliance Limits have been set at one down-gradient groundwater monitoring location for each phase, WMP1, WMP3 and WMP16.

Control levels and compliance limits have been set for 3 determinands: ammoniacal nitrogen, chloride and arsenic. Ammoniacal nitrogen is generated during the biodegradation processed of organic rich soils or wood that may accidently be accepted at the Site. Chloride is not retarded or degraded by any environmental processes and is therefore a good choice as a conservative tracer. Arsenic has been selected as it can be present in clay material and is a hazardous substance.

Groundwater quality data collected at the existing monitoring points has been analysed and used to set the Control Levels and Compliance Limits, shown on Table 3. For arsenic and chloride at all locations, data exists from 2016 to present. For ammoniacal nitrogen data is available from March 2024 to present. A statistical outlier test has been used to set appropriate limits for each. Data was inspected for normal and log-normal distributions and then an appropriate statistical test was applied to check for outliers. Any outliers were removed prior to defining each Control Level and Compliance Limit. Control levels have been set at the mean plus two standard deviations, and the compliance limit has been set to the mean plus three standard deviations on the data that excludes outliers. Compliance Limits have been increased where the difference between the calculated Control Level and Compliance

Limit is insufficient to allow sufficient time for Tarmac to act. Compliance Limits remain below the relevant environmental or drinking water standard.

Graphs showing the datasets used to determine the Control Levels and Compliance Limits are presented in Appendix A.

Table 3 Groundwater Control Levels and Compliance Limits[1]

Location	Determinand	Control Level (mg/l)	Compliance Limit (mg/l)	Comment
WMP1	Arsenic	0.001	*0.003*	Limits based on processed data with four outliers removed
	Chloride	37.2	*57.2*	Limits based on dataset; no outliers removed
	Ammoniacal Nitrogen	0.21	0.41	Limits based on processed log data with two outliers removed
WMP3	Arsenic	0.0015	*0.0035*	Limits based on processed log data with two outliers removed
	Chloride	52.3	*72.3*	Limits based on dataset; no outliers removed
	Ammoniacal Nitrogen	0.25	0.73	Limits based on processed log data with two outliers removed
WMP16	Arsenic	0.0019	*0.0039*	Limits based on log dataset; no outliers removed
	Chloride	22.7	*42.7*	Limits based on processed log data with one outlier removed
	Ammoniacal Nitrogen	0.39	1.26	Limits based on log dataset; no outliers removed

[1]Where the Compliance Limit has been increased above that derived using statistics (see text), the value is *italicised.*

3 SURFACE WATER MONITORING

3.1 Monitoring Locations

Surface water quality will be monitored at seven locations. These locations are outlined in Table 4 and shown on Figure 1.

Table 4 Surface water monitoring locations

Location	Easting	Northing	Watercourse
SW1	457546	166342	Spring Ditch, upstream of Phase B
SW2	458403	166160	Spring Ditch, downstream of Phase B, near to confluence with River Enborne
SW3	457505	165672	River Enborne, next to Phase A, upstream of discharge location and upstream of confluence of Stream A
SW4	458018	165799	River Enborne, centre of Site and in discharge reach, downstream of confluence of Stream B
SW5	458439	166129	River Enborne, downstream of Site, before confluence with Spring Ditch
GB1	457870	165581	Stream A, downstream of Phase A
GB3	457784	166357	Spring Ditch, upstream of Phase A and the Site

During the infilling operations and following restoration, monitoring will continue at all these locations, to determine if the Site is impacting on the surface water features.

During operations, there will be no discharge to the Spring Ditch. The discharge will be into the River Enborne in the reach between Phase A and Phase C or to Stream A or Stream B, within the Site boundary. Whilst discharging, water quality will be monitored both upstream and downstream of the discharge location(s) to ensure the surface water quality is not being affected by other third party activities not connected with site activities.

3.2 Monitoring Measurements and Schedules

Surface water quality will be measured on a monthly/quarterly basis while the permit is active. The parameters to be measured and frequencies are detailed in Table 5. Although organics are not anticipated in the inert restoration materials to be accepted at the Site, they have been detected in surface water (Envireau Water, 2025a). Therefore, annual monitoring is proposed to monitor any trends.

Table 5 Surface water monitoring determinands and sampling frequency

Locations	Water Level monitoring	Water Quality Monitoring	
		Determinand	Water Quality Frequency
SW1 SW2 SW3 SW4 SW5 GB1 GB3	Monthly	Field: pH, EC, Temp, Laboratory: pH, EC, Alkalinity as CaCO3, ammoniacal nitrogen, chloride, nitrate, nitrite, sulphate, calcium, sodium, magnesium, potassium, arsenic, iron, manganese, antimony, cadmium, chromium, copper, lead, nickel, selenium, zinc, barium, mercury, molybdenum, antimony, fluoride	Monthly for 12 months, and then reduce to quarterly. Frequencies would be increased in accordance with Section 4

3.3 Control levels and Compliance Limits

3.3.1 Locations and Values

Control Levels and Compliance Limits have been set at:

- SW2, located downstream of the Site on Spring Ditch;
- SW5, located downstream of the Site on the River Enborne; and
- GB1, located on Stream A, downgradient of Phase A.

Control levels and compliance limits have been set for the same three determinands as for groundwater (see above): ammoniacal nitrogen, chloride and arsenic.

Surface Water quality data collected at the existing selected monitoring points has been analysed and used to set the Control Levels and Compliance Limits, shown in Table 6. For arsenic and chloride at SW2 and SW5, data exists from 2016 to present, and ammoniacal nitrogen data is available from 2022 to present. Water quality data for GB1 is available from May 2022. The data were subject to a statistical outlier test to derive appropriate Control Levels and Compliance Limits in the same manner as for groundwater (see Section 2.3.1).

Graphs showing the derivation of the Control Levels and Compliance Limits are presented in Appendix A.

Table 6 Surface water Control Levels and Compliance Limits[1]

Location	Determinand	Control Level (mg/l)	Compliance Limit (mg/l)	Comment
SW2	Arsenic	0.0031	*0.0051*	Limits based on log dataset; no outliers removed
	Chloride	35.4	*55.4*	Limits based on full dataset; no outliers removed
	Ammoniacal Nitrogen	0.087	0.11	Limits based on full dataset; no outliers removed
SW5	Arsenic	0.0019	*0.0039*	Limits based on processed log data with one outlier removed
	Chloride	45.3	*65.3*	Limits based on full dataset; no outliers removed
	Ammoniacal Nitrogen	0.073	0.14	Limits based on processed log data with one outlier removed
GB1	Arsenic	0.0014	*0.0034*	Limits based on processed log data with one outlier removed
	Chloride	33.6	*53.6*	Limits based on full data; no outliers removed
	Ammoniacal Nitrogen	0.045	*0.065*	Limits based on processed data with three outliers removed

[1]Where the Compliance Limit has been increased above that derived using statistics (see text), the value is *italicised.*

4 BREACH RESPONSE PROCEDURE

4.1 Control Level

Should Site monitoring data show an exceedance of the Control Level, Tarmac will analyse results from the past 12 months at the affected monitoring point. If only one of the last four results breaches the Control Level, no further action will be taken, other than to note that a breach has occurred. If two or more of the last four sampling results have breached the Control Level, then the monitoring point will be re-sampled as soon as possible.

If the repeat sample also exceeds the Control Level the following steps will be taken:

- Data from the monitoring point exceeding the Control Level and adjacent monitoring points will be reviewed to establish the presence of any trends.
- If the monitoring point with an exceedance is a borehole, groundwater levels will be reviewed to determine whether Site activities could be responsible for any change in groundwater quality. If it is a surface water monitoring point, recent rainfall and recorded levels (where available) will be reviewed.
- A preliminary inspection will be undertaken to determine whether there has been:
    - Any unusual activity or occurrence at or around the Site that could account for the change in groundwater or surface water quality.
    - Any spillage of contaminants at the surface in the vicinity of the affected monitoring point.

Tarmac will assess all the above information and specify a course of action on future monitoring. The Environment Agency will be notified of the breach and the course of action taken.

4.2 Compliance Limit

Should any Compliance Limit be exceeded in one monitoring point on one occasion, the monitoring point will be re-sampled as soon as possible after receipt of the results. These initial steps will be used to eliminate errors that might be introduced during sampling, field analysis or laboratory analysis. If this second sample does not exceed the Compliance Limit, then no further action will be taken, unless it exceeds the Control Level in which case the procedure set out in Section 4.1 will be followed.

If the additional repeat sample also exceeds the Compliance Limit, then:

- Data exceeding the Control Level (i.e., data falling below the Compliance Limit) at the monitoring point and adjacent monitoring points will be reviewed to establish the presence of any trends.
- If the monitoring point with an exceedance is a borehole, groundwater levels will be reviewed to determine whether the Site activities could be responsible for the change in groundwater quality. If it is a surface water monitoring point, recent rainfall and recorded levels (where available) will be reviewed.
- A preliminary inspection will be undertaken to determine whether there has been:
    - Any unusual activity or occurrence at or around the Site that could account for the change in groundwater or surface water quality.
    - Any spillage at the surface in the vicinity of the affected monitoring point.

- The monitoring frequency will be increased for an agreed set of determinands in the affected monitoring point and adjacent monitoring point until the determinand concentration falls below the Compliance Limit.
- If the laboratory results from the more frequent monitoring show no indication of decline over a four month period, and the evidence indicates that the Site is the most likely cause of the increase in concentrations, then an HRA Review (HRAR) will be carried out.
- The HRAR will be prepared by an appropriately qualified person and will include an assessment of the cause of the breach and an assessment of the effects on groundwater and/or surface water quality. The report will assess any implications on the groundwater and surface water resource to determine if the impact is significant. Recommendations for remedial actions will be made if considered necessary.

5 OTHER MONITORING

5.1 Gas

Due to the inert nature of the restoration material to be used in the recovery operation, Environment Agency guidance states that new inert landfills do not pose a landfill gas hazard (Environment Agency, 2014). Accordingly, management and monitoring infrastructure are not required and will not be installed.

5.2 Rainfall and Weather

Weather warnings from the Meteorological Office will be monitored to ensure that any risks that could pose a risk to operations arising from adverse weather conditions can be managed appropriately. For example, should there be severe winds, dry material will not be accepted on that day.

Daily weather conditions will be recorded in the Site diary. A rain gauge or weather station will not be installed at the Site. The nearest Environment Agency rain gauge is at Kingsclere (ID 269627TP), located 7 km southwest of the Site. Rainfall data from this rain gauge will be used in any future water balance calculations, should these be required.

6 QUALITY CONTROL AND REPORTING

Monitoring will be undertaken by suitably trained person(s) appointed by Tarmac, who are familiar with best practice environmental monitoring procedures. The monitoring personnel will have access to the Environmental Permit and any relevant accompanying application documents to gain an understanding of the conditions applicable to groundwater monitoring (levels and quality). Personnel will also be familiar with the assessment criteria to identify compliance and assessment levels.

All field monitoring results for groundwater level and water quality and all laboratory results will be stored in Tarmac's Database. Tarmac will ensure data is sent to the Environment Agency in an agreed format at quarterly intervals.

REFERENCES

Envireau Water. (2025a). *Wasing Quarry: Environmental Setting and Site Design (ESSD). Prepared for Tarmac Trading Ltd.*

Envireau Water. (2025b). *Wasing Quarry: Hydrogeological Risk Assessment.*

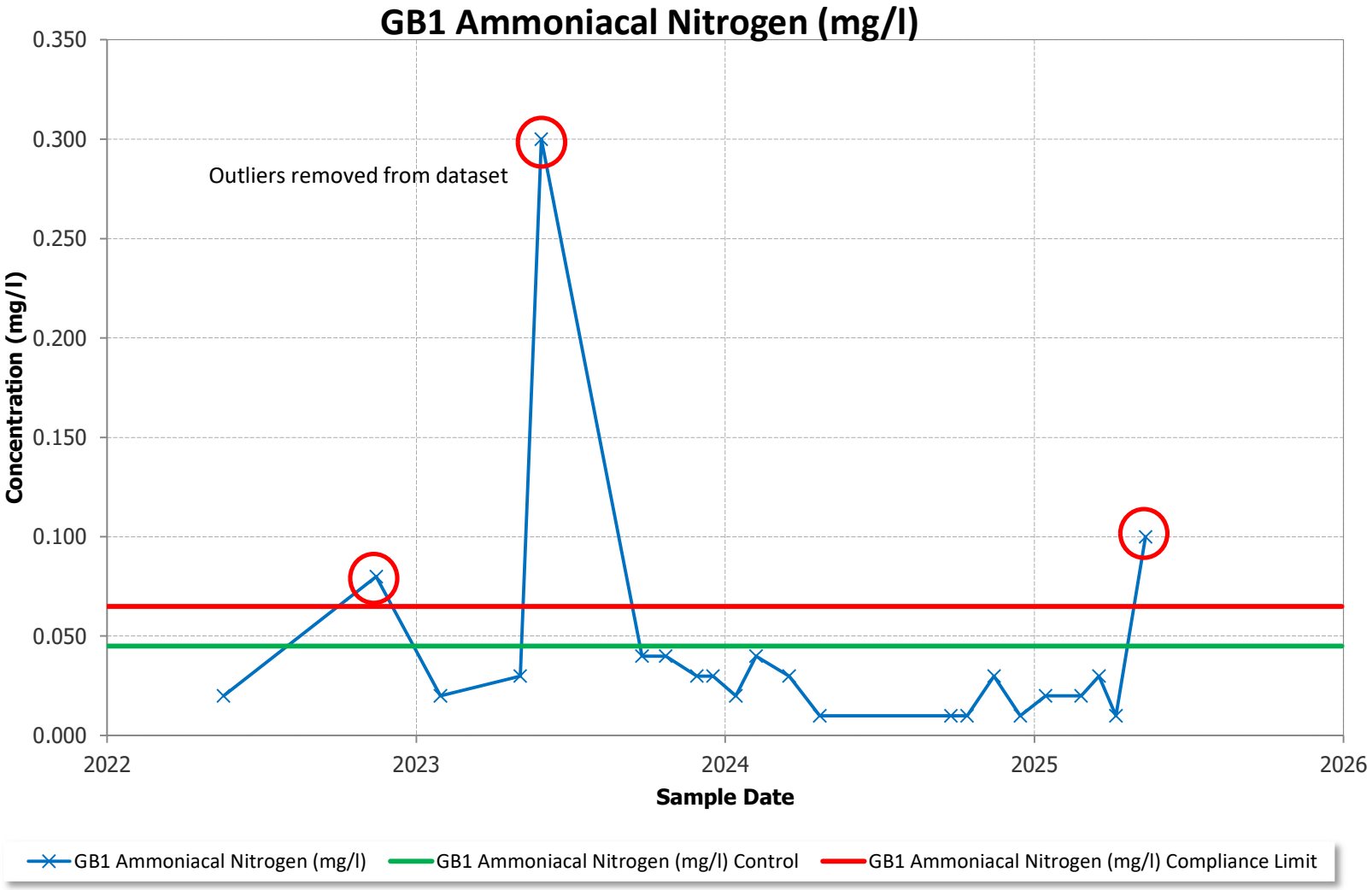
Environment Agency. (2003). *Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water LFTGN02.*

Environment Agency. (2014). *Guidance on the Management of Landfill Gas.* LFTGN03.

APPENDICES

Appendix A

Control Levels and Compliance Limits for all Monitoring Points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Concentration (mg/l)
Outliers removed from dataset
2022
2023
2024
2025
2026
Sample Date
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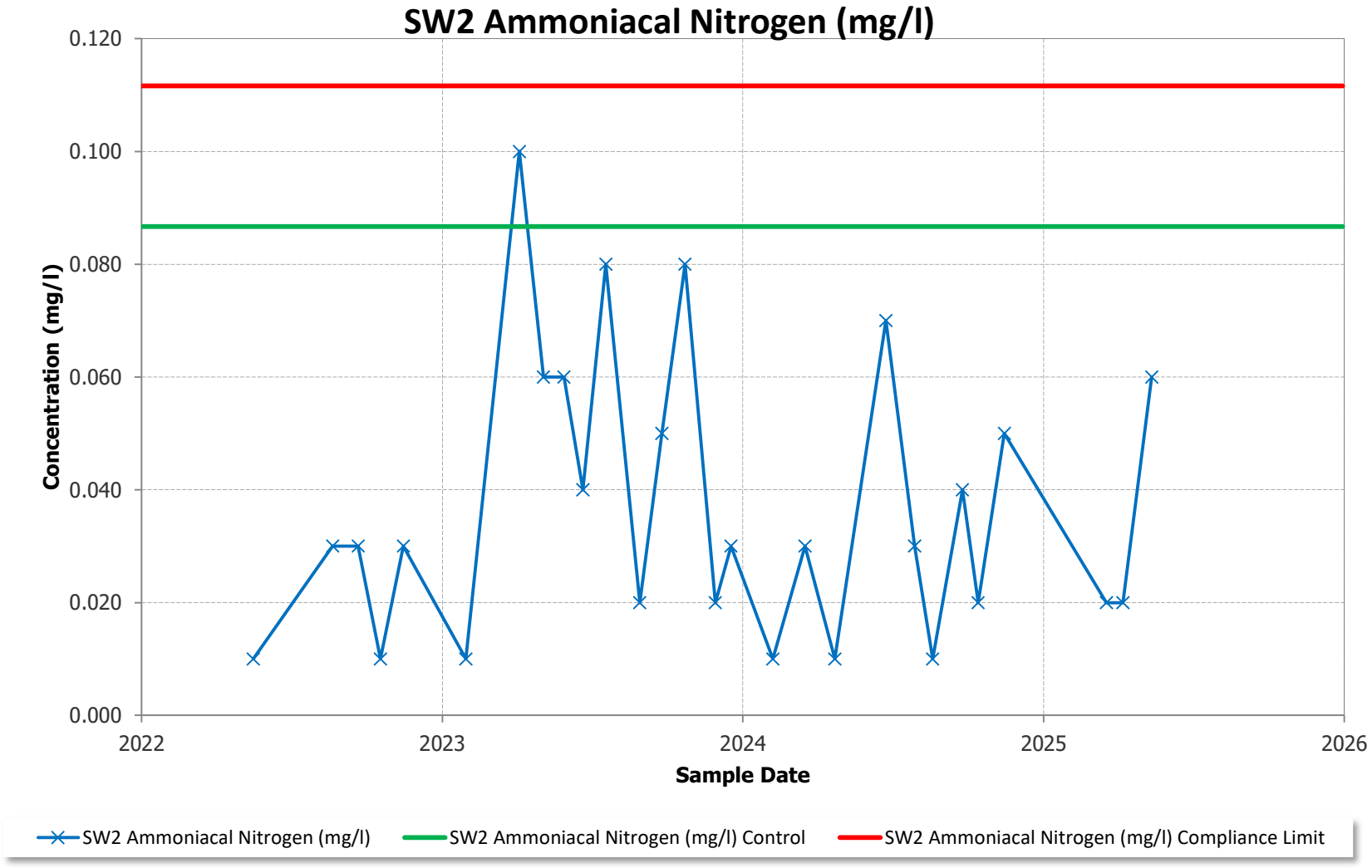
GB1 Ammoniacal Nitrogen (mg/l) Control
GB1 Ammoniacal Nitrogen (mg/l) Compliance Limit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Concentration (mg/l)
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2023
2024
2025
2026
Sample Date
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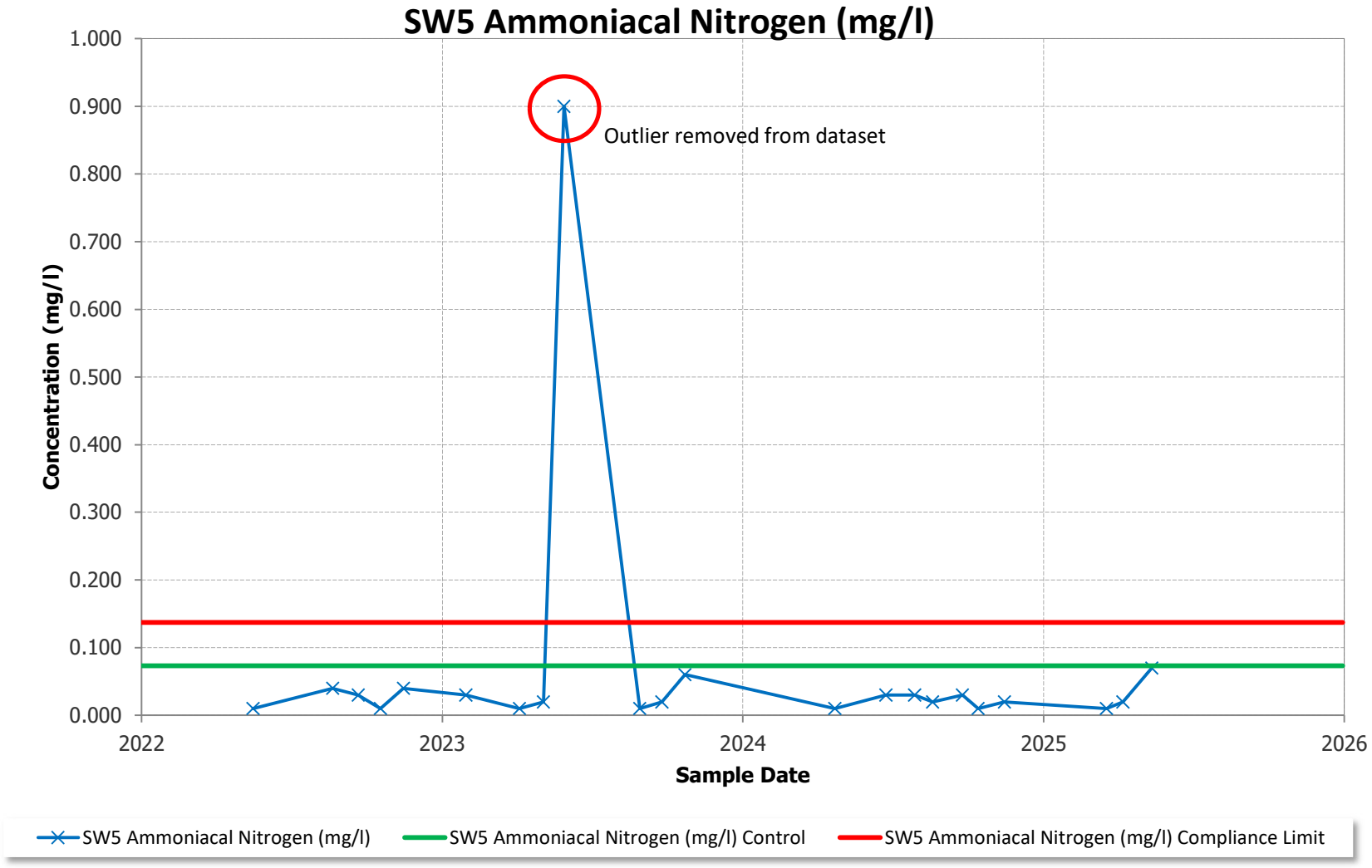
SW2 Ammoniacal Nitrogen (mg/l) Compliance Limit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0.400
0.300
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0.100
0.000
Concentration (mg/l)
Outlier removed from dataset
2022
2023
2024
2025
2026
Sample Date
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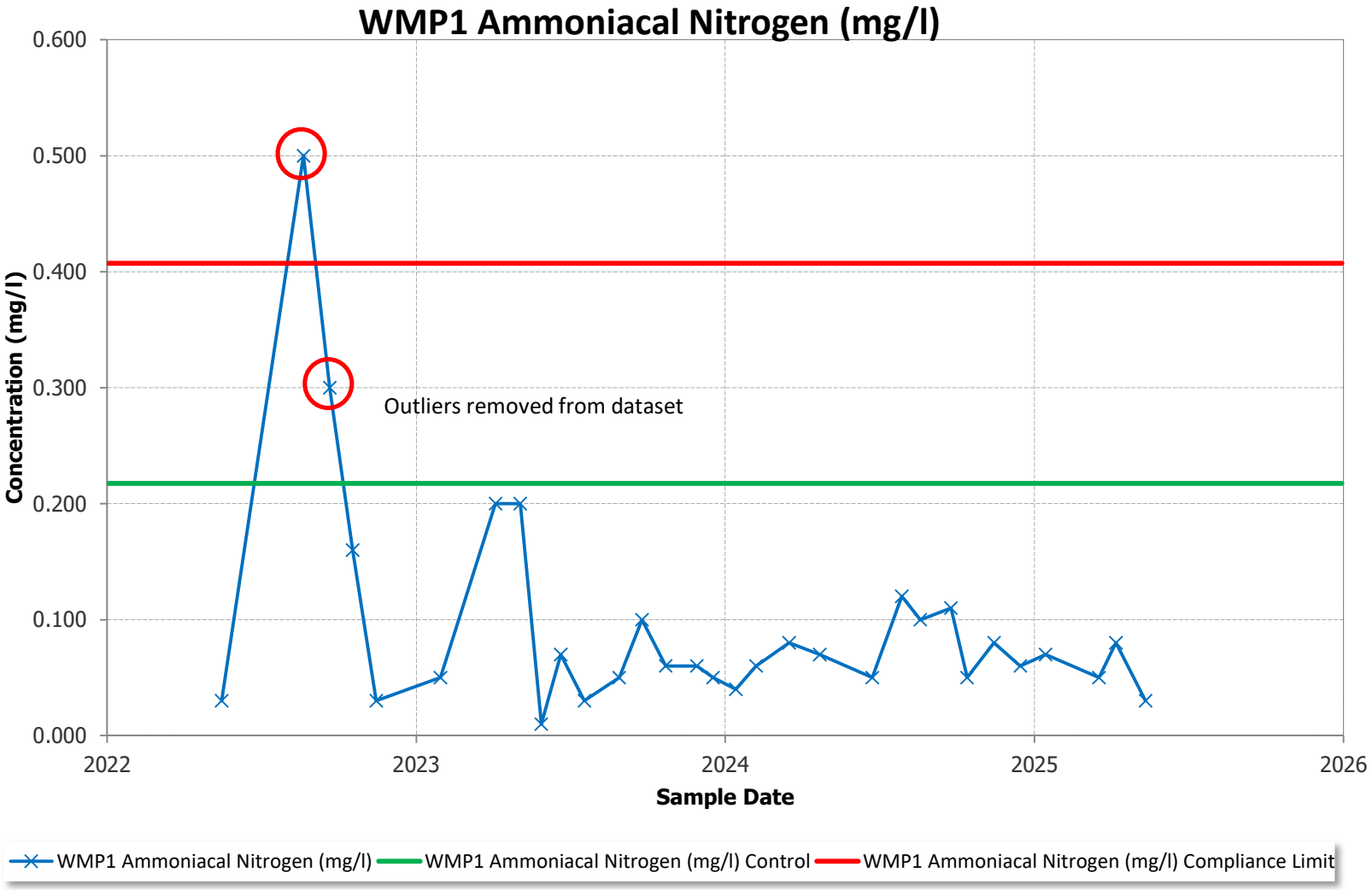
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2022
2023
2024
2025
2026
Sample Date
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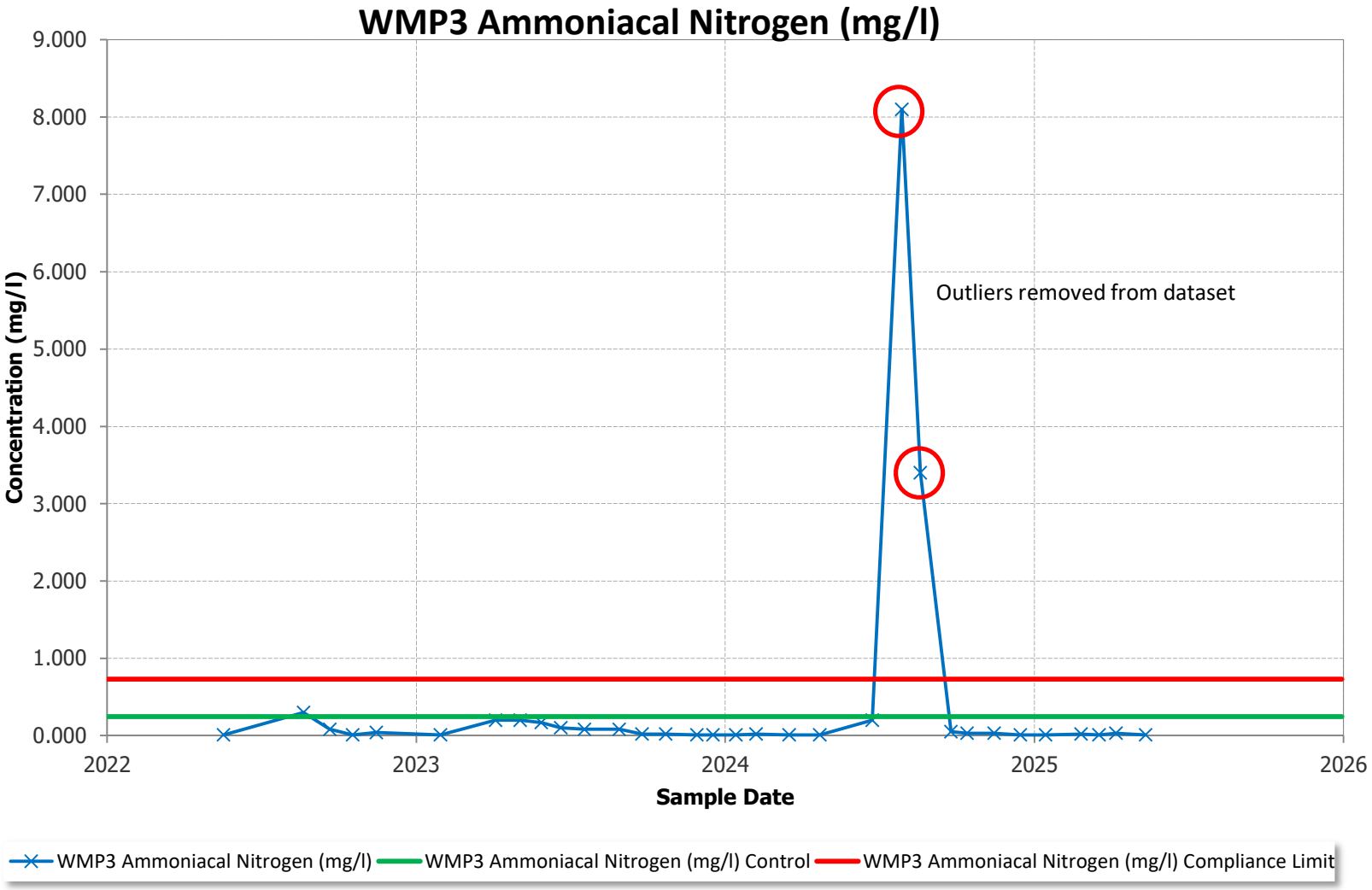
WMP1 Ammoniacal Nitrogen (mg/l) Compliance Limit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2023
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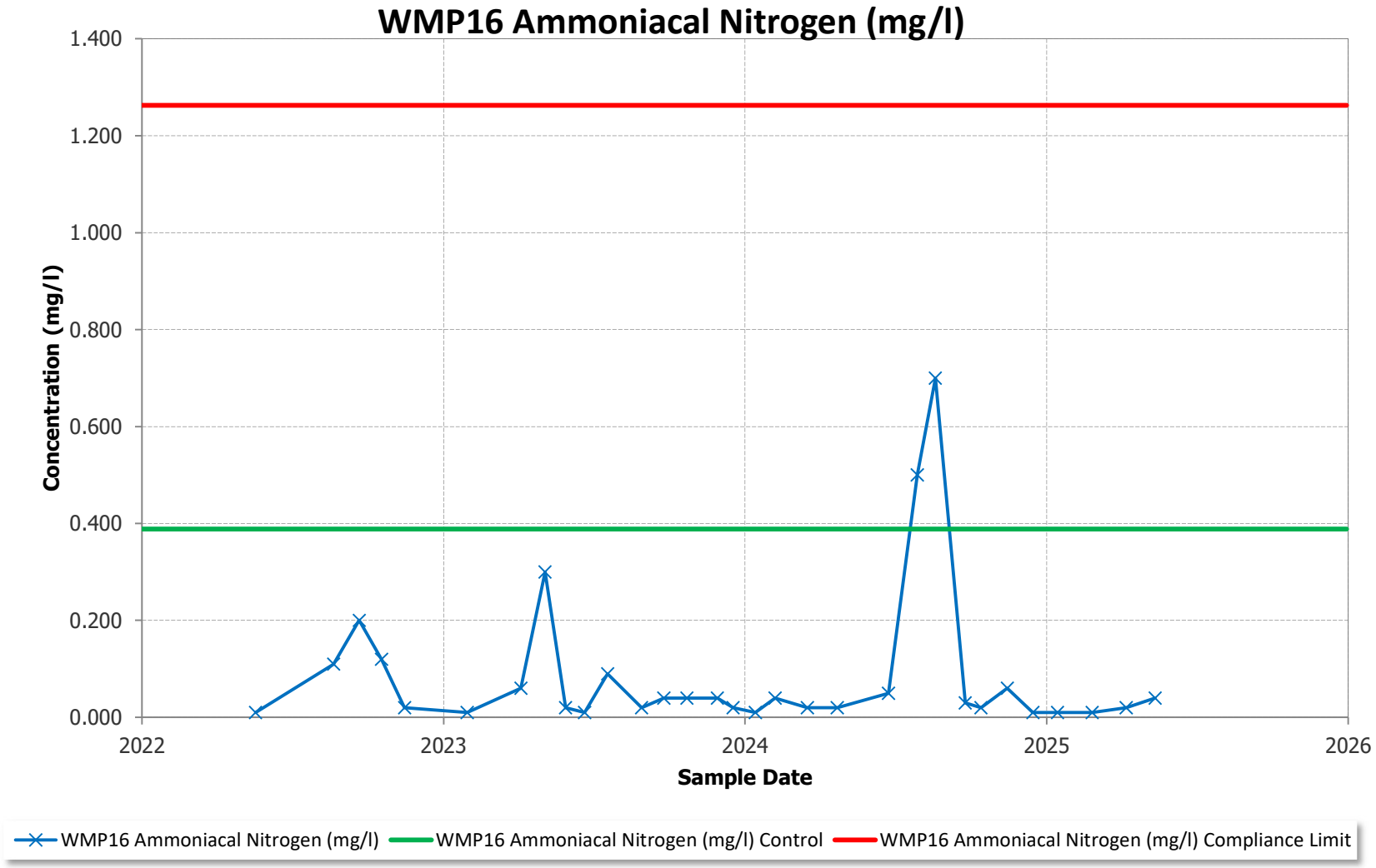
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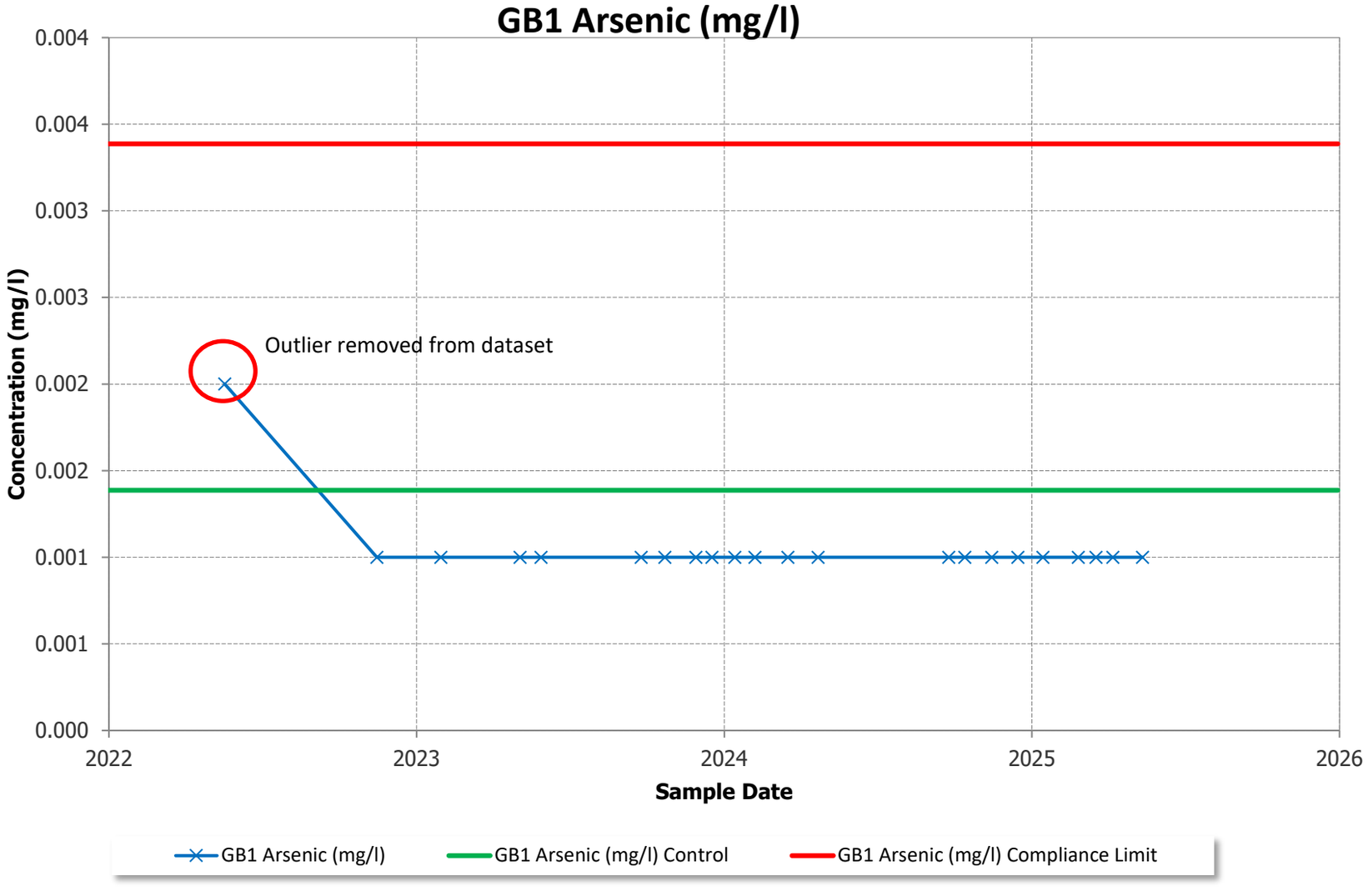
2023
2024
2025
2026
Sample Date
WMP16 Ammoniacal Nitrogen (mg/l)
WMP16 Ammoniacal Nitrogen (mg/l) Control
WMP16 Ammoniacal Nitrogen (mg/l) Compliance Limit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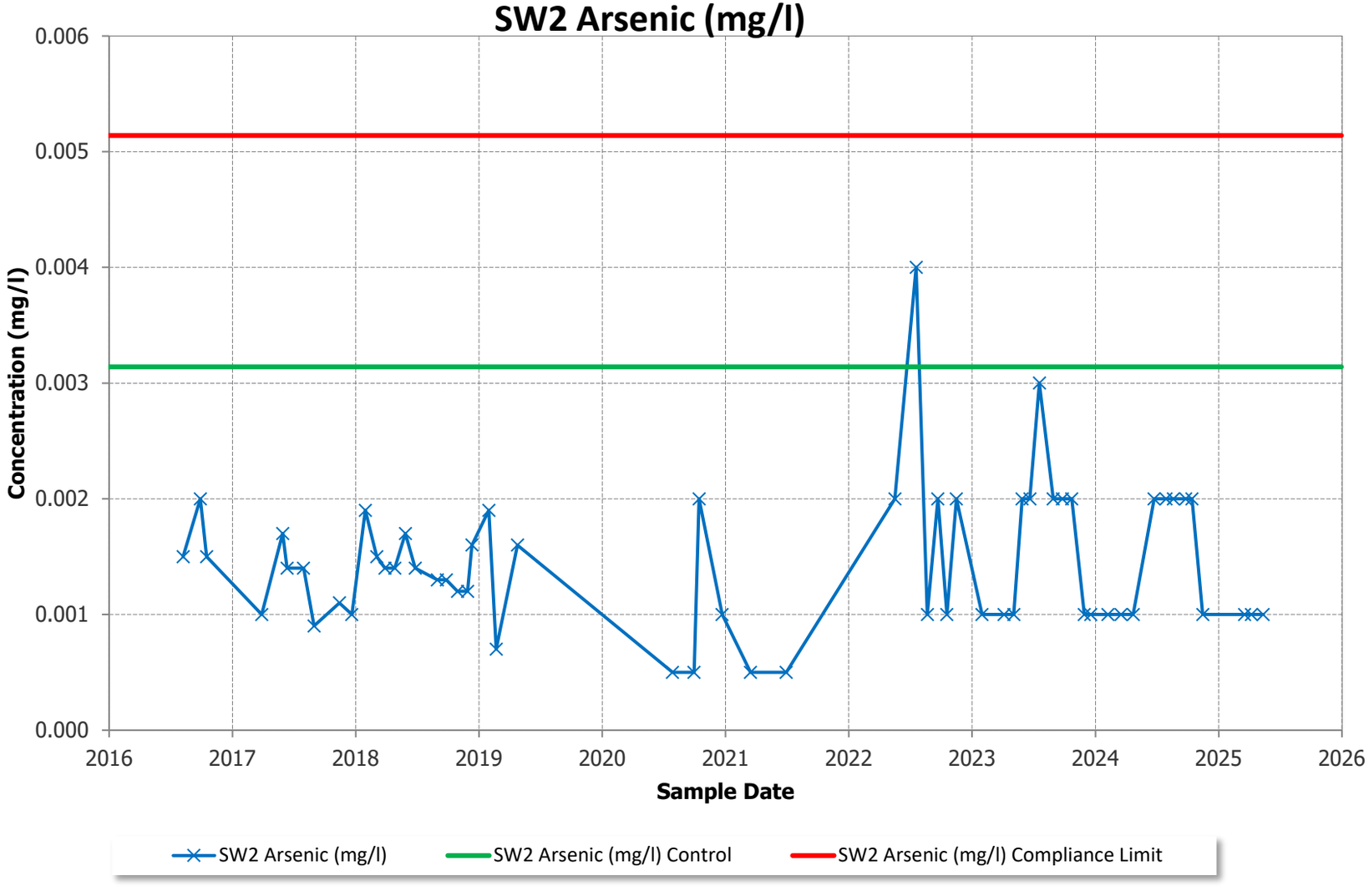
GB1 Arsenic (mg/l) Control
GB1 Arsenic (mg/l) Compliance Limit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Concentration (mg/l)
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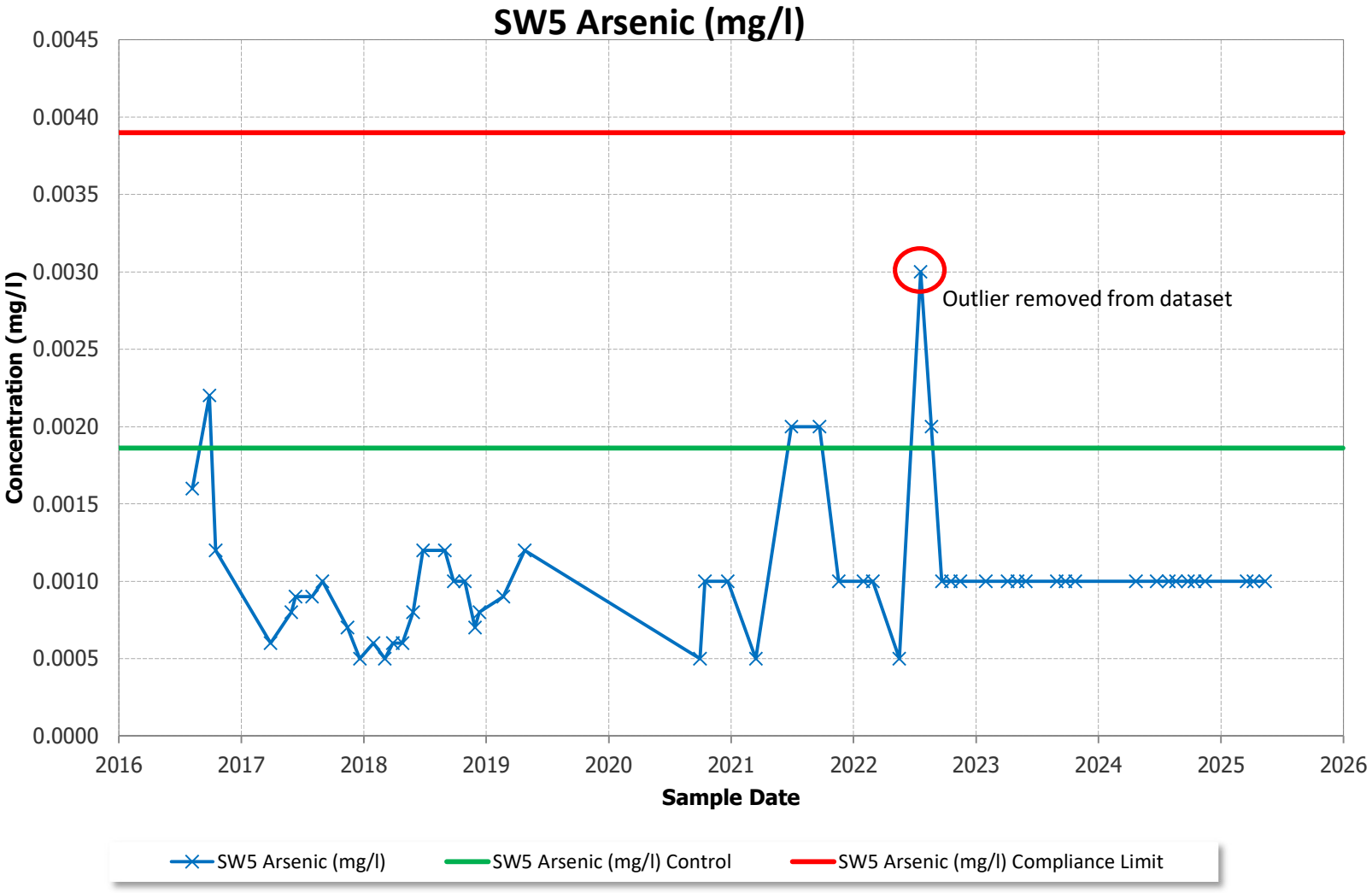
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
Sample Date
SW2 Arsenic (mg/l)
SW2 Arsenic (mg/l) Control
SW2 Arsenic (mg/l) Compliance Limit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2016
2017
2018
2019
2020
2021
2022
2023
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Sample Date
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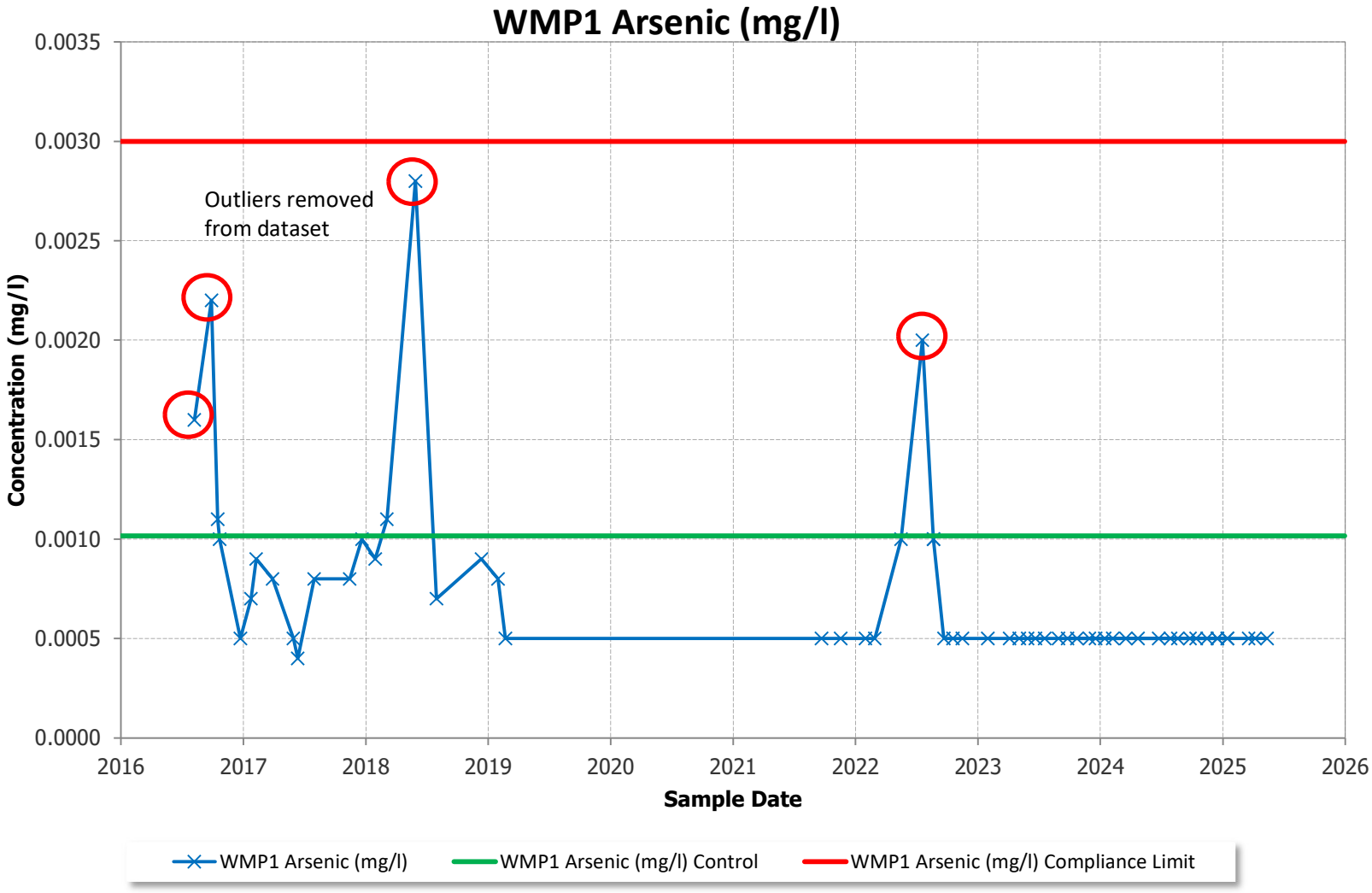
SW5 Arsenic (mg/l) Compliance Limit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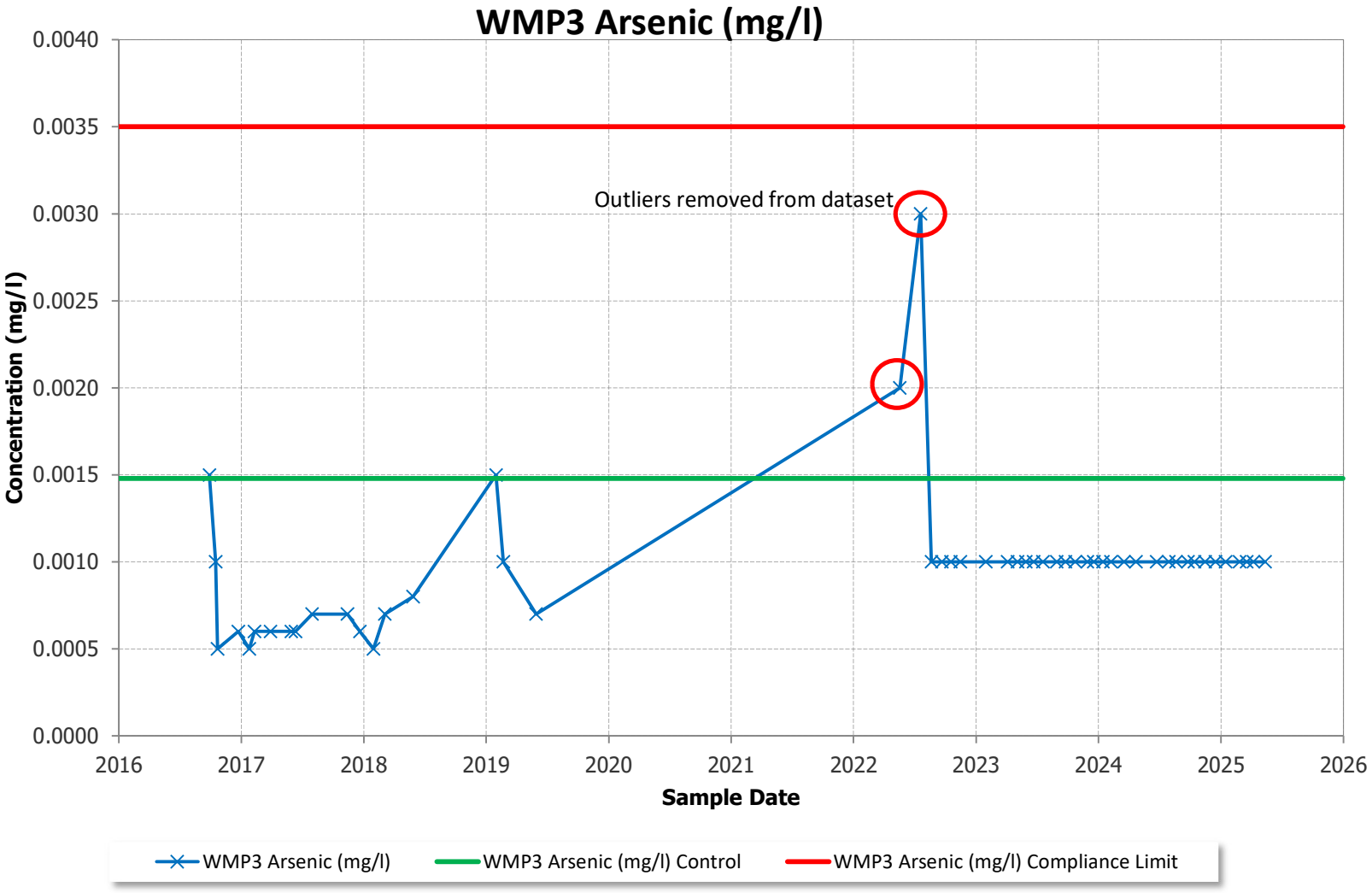
WMP1 Arsenic (mg/l) Compliance Limit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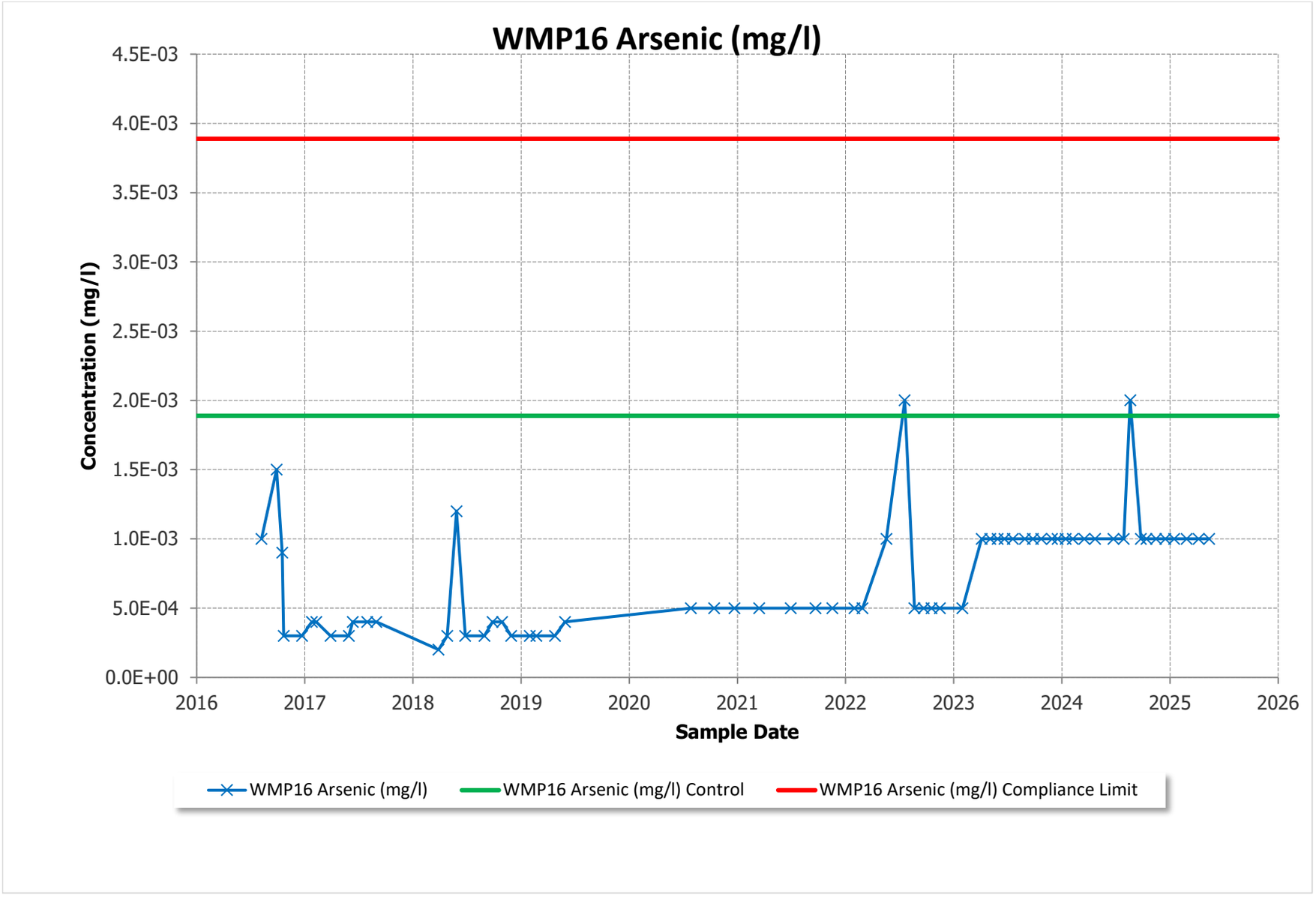
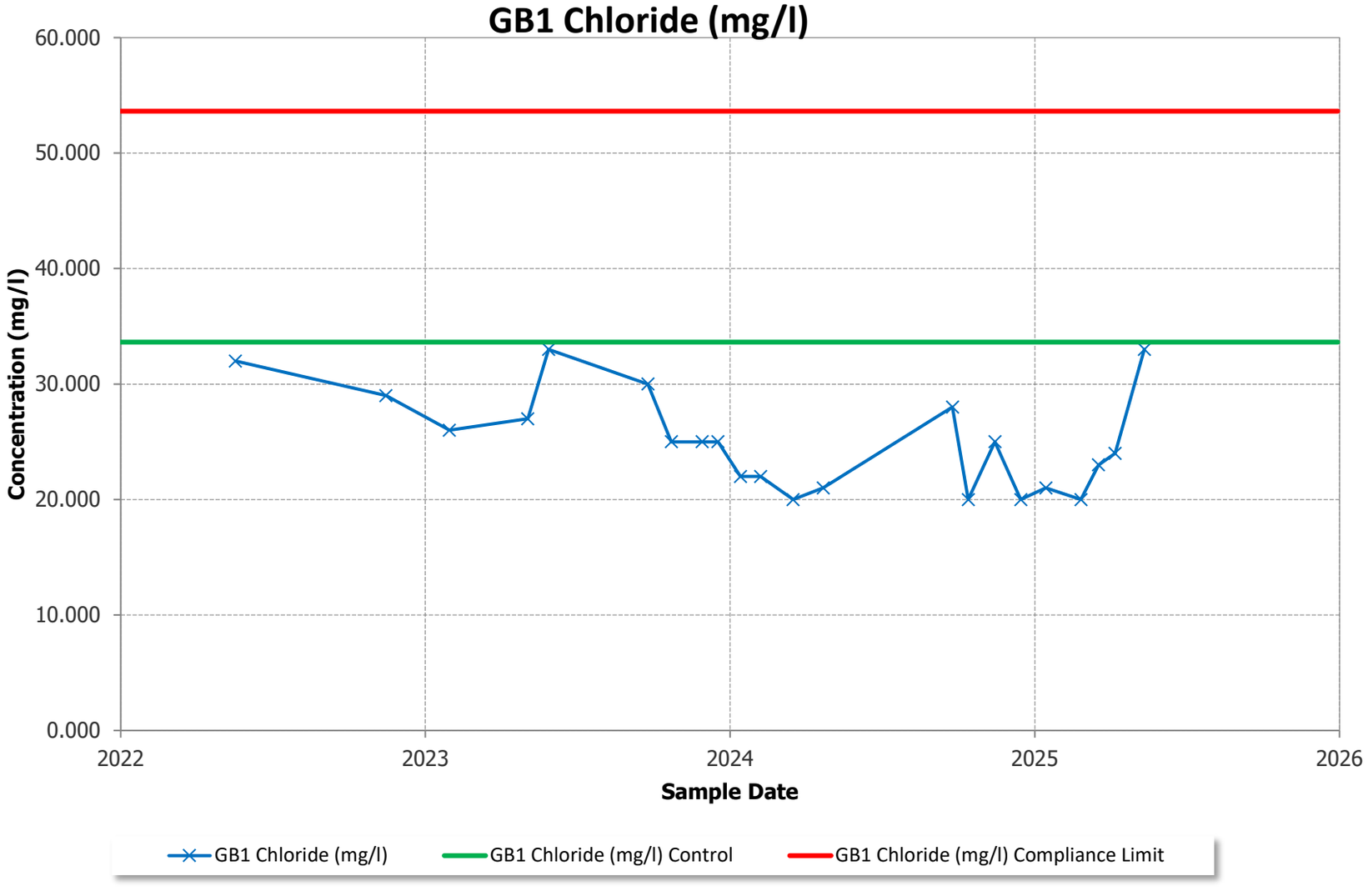
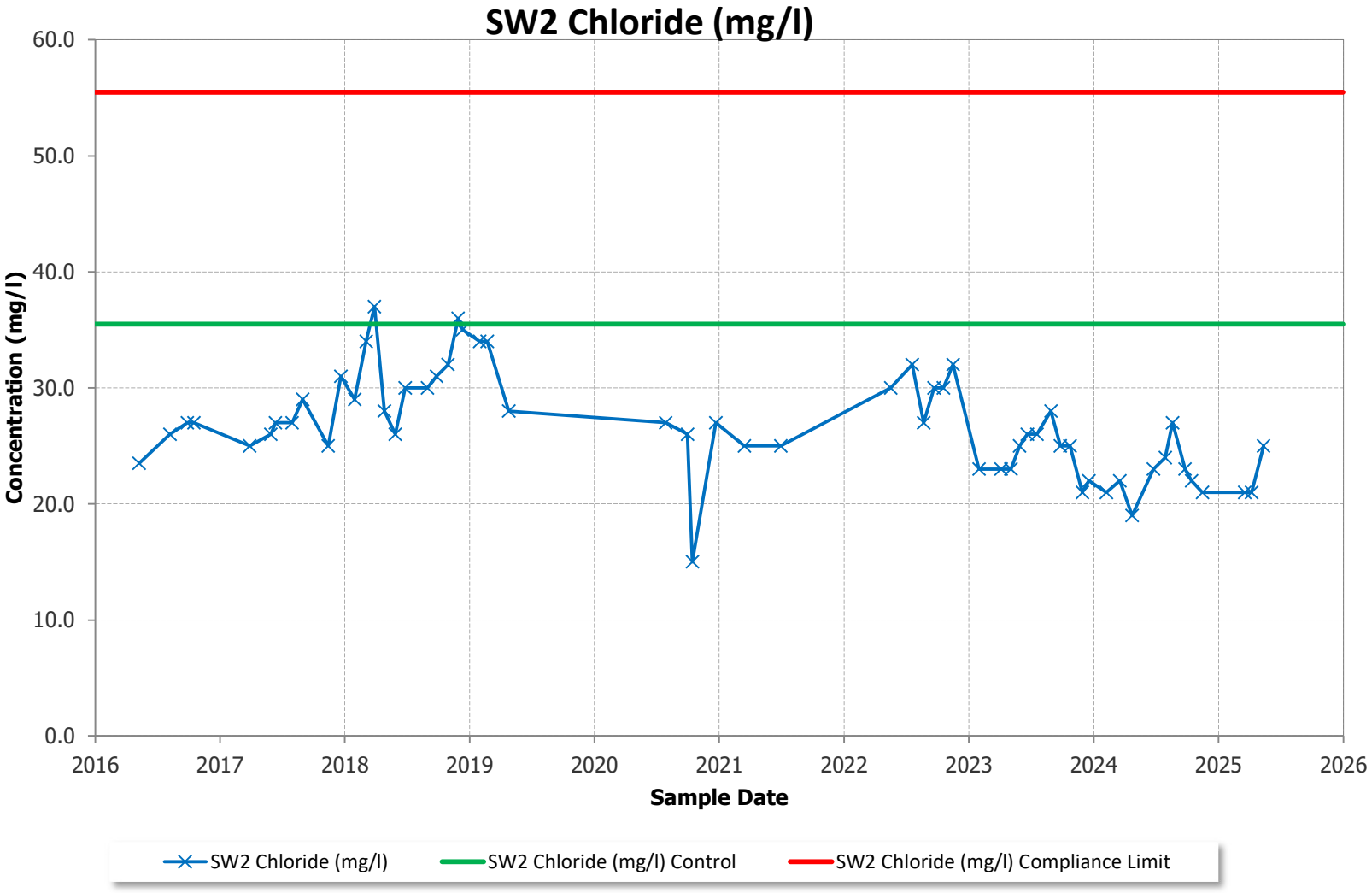
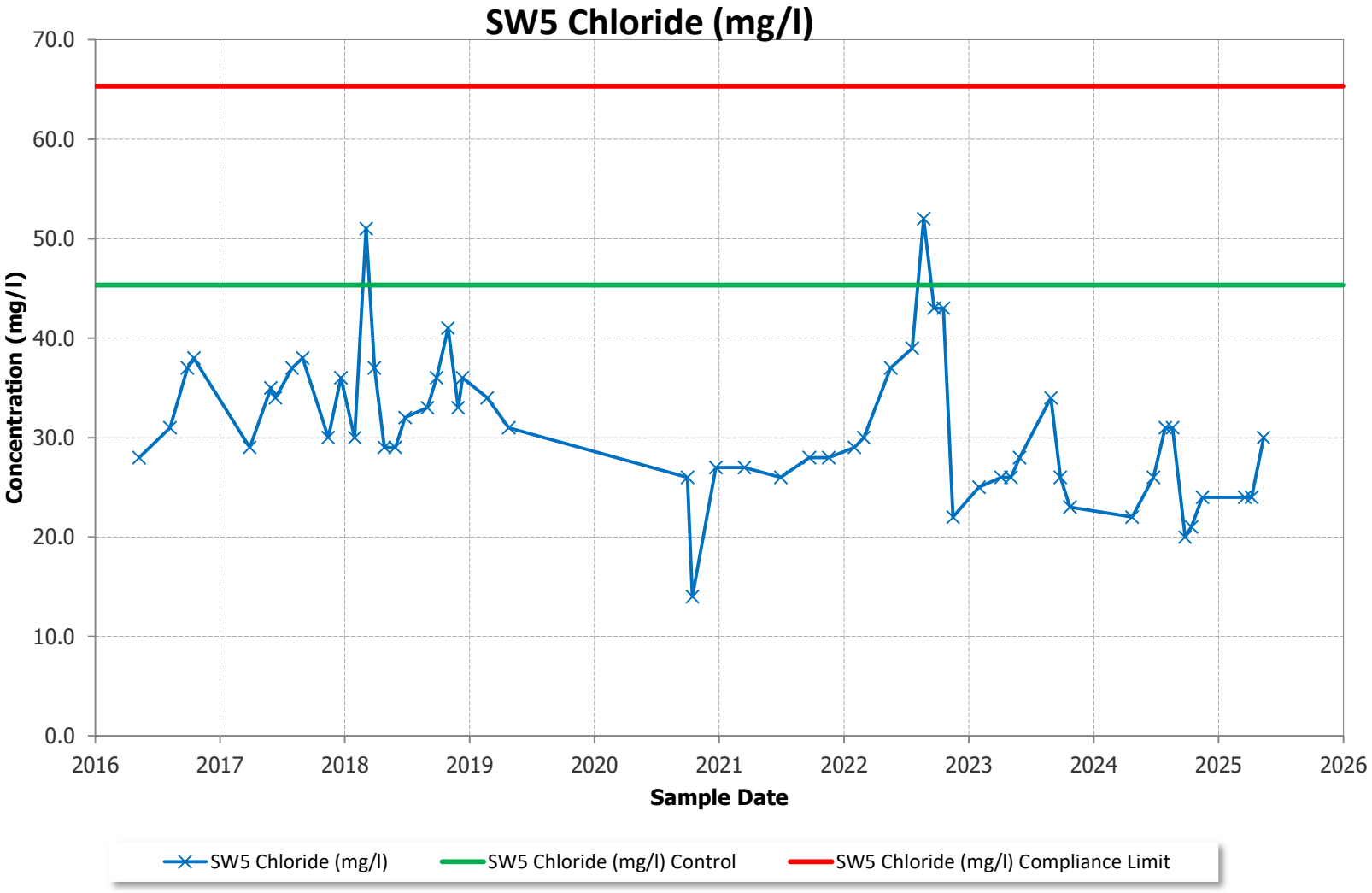
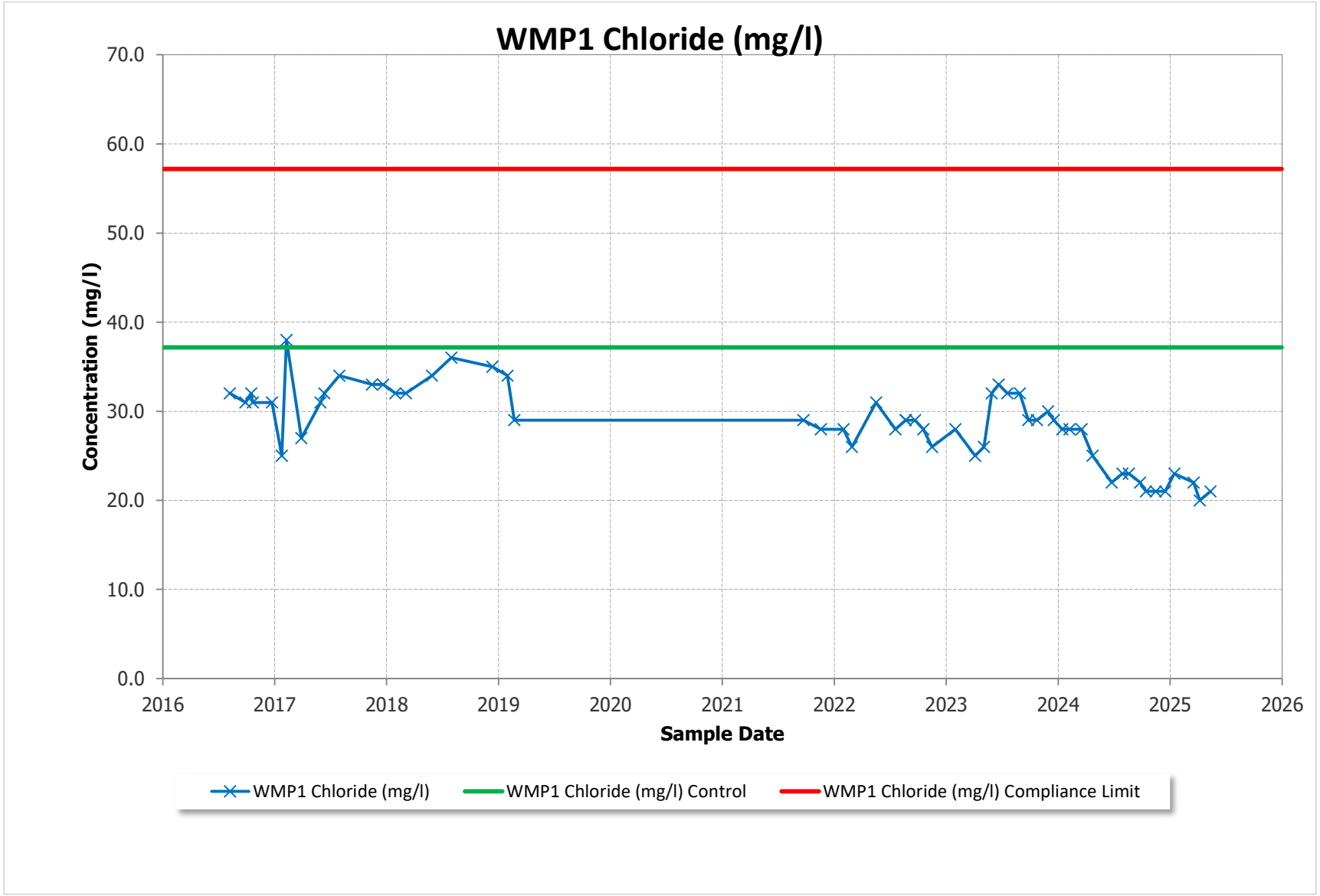
2024
2025
2026
Sample Date
WMP3 Arsenic (mg/l)
WMP3 Arsenic (mg/l) Control
WMP3 Arsenic (mg/l) Compliance Limit

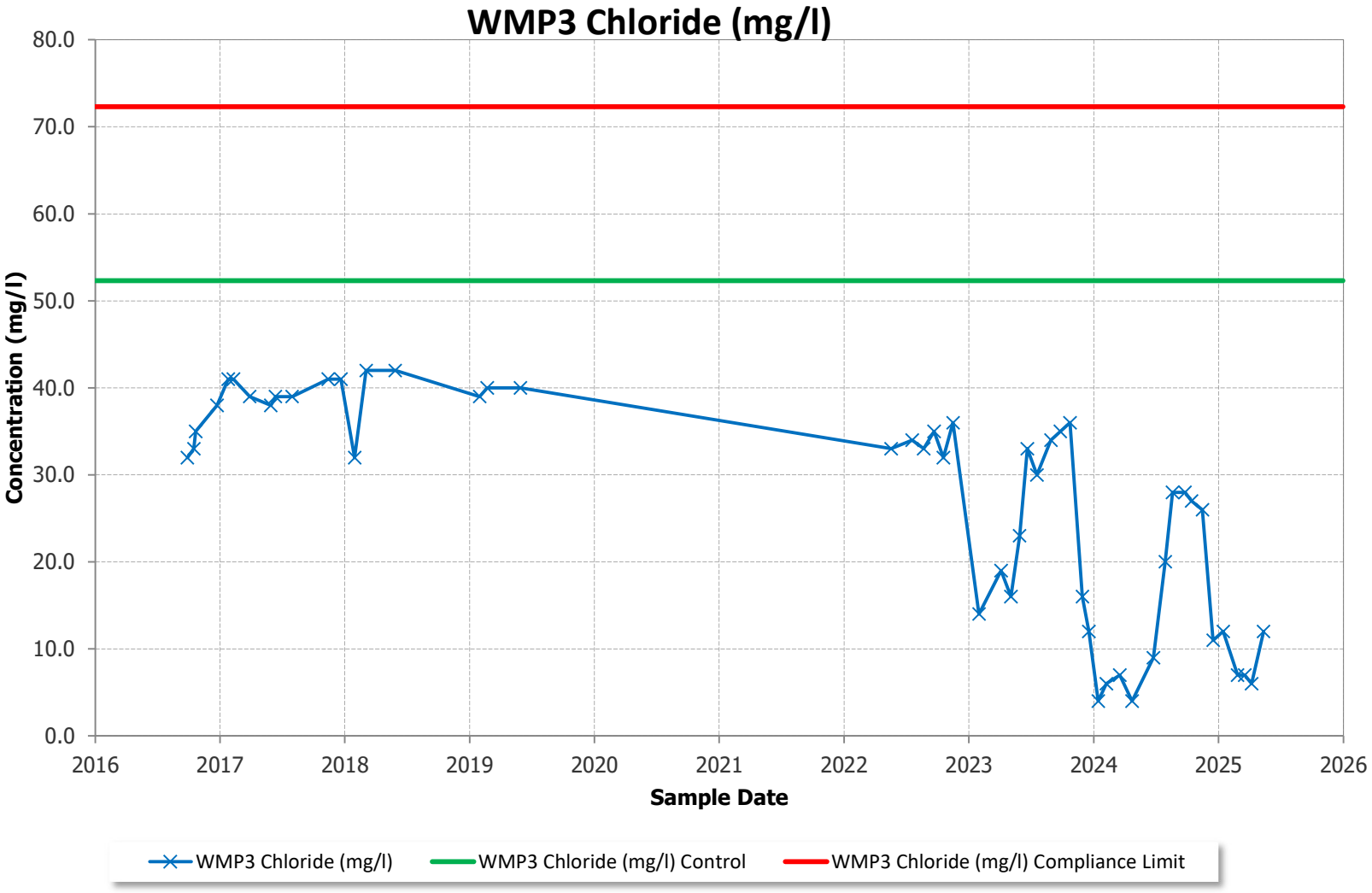

WMP16 Arsenic (mg/l)
4.5E-03
4.0E-03
3.5E-03
3.0E-03
2.5E-03
2.0E-03
1.5E-03
1.0E-03
5.0E-04
0.0E+00
Concentration (mg/l)
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
Sample Date
WMP16 Arsenic (mg/l)
WMP16 Arsenic (mg/l) Control
WMP16 Arsenic (mg/l) Compliance Limit

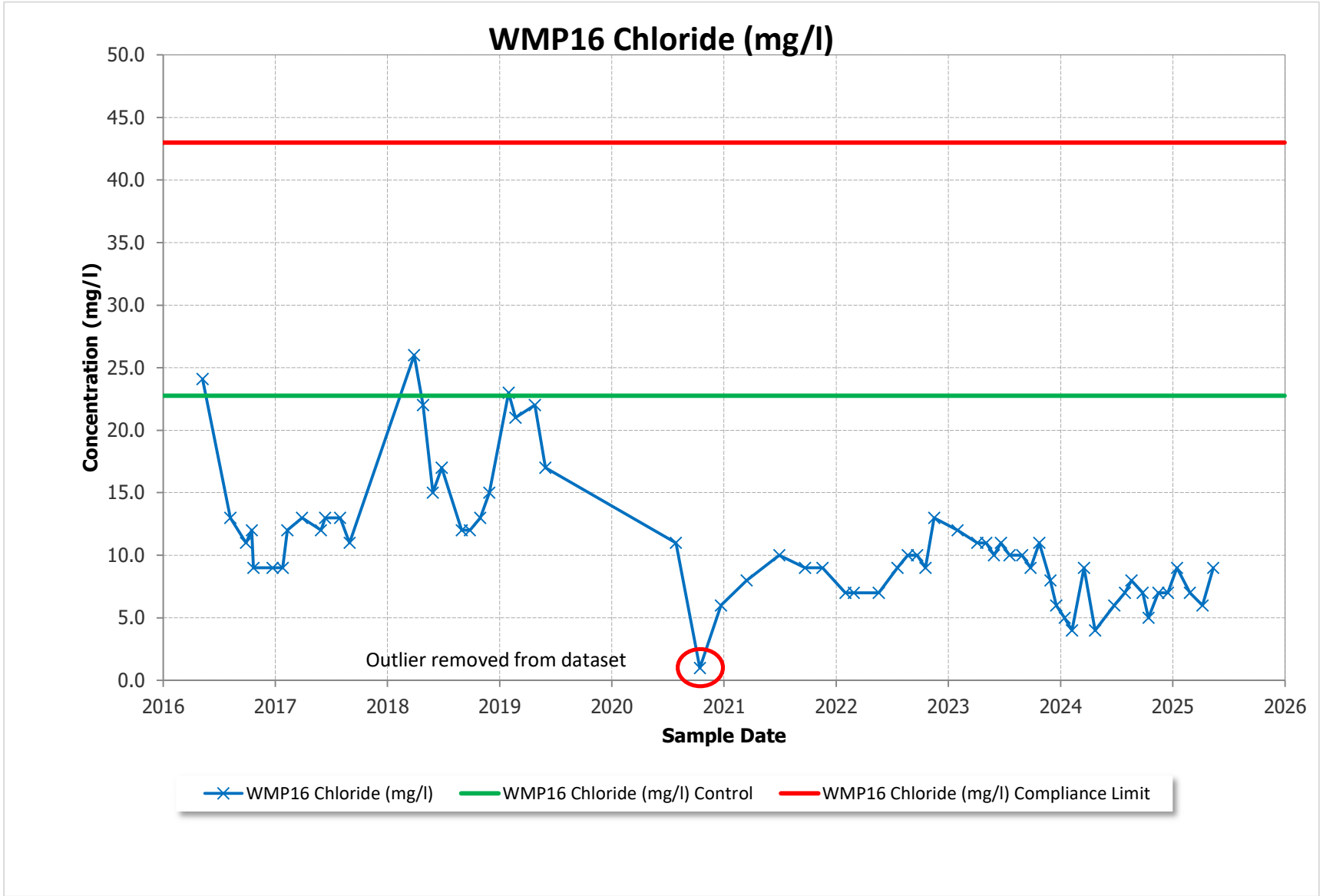

GB1 Chloride (mg/l)
60.000
50.000
40.000
30.000
20.000
10.000
0.000
Concentration (mg/l)
2022
2023
2024
2025
2026
Sample Date
GB1 Chloride (mg/l)
GB1 Chloride (mg/l) Control
GB1 Chloride (mg/l) Compliance Limit


SW2 Chloride (mg/l)
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Concentration (mg/l)
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
Sample Date
SW2 Chloride (mg/l)
SW2 Chloride (mg/l) Control
SW2 Chloride (mg/l) Compliance Limit


SW5 Chloride (mg/l)
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Concentration (mg/l)
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
Sample Date
SW5 Chloride (mg/l)
SW5 Chloride (mg/l) Control
SW5 Chloride (mg/l) Compliance Limit


WMP1 Chloride (mg/l)
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Concentration (mg/l)
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
Sample Date
WMP1 Chloride (mg/l)
WMP1 Chloride (mg/l) Control
WMP1 Chloride (mg/l) Compliance Limit


WMP3 Chloride (mg/l)
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Concentration (mg/l)
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
Sample Date
WMP3 Chloride (mg/l)
WMP3 Chloride (mg/l) Control
WMP3 Chloride (mg/l) Compliance Limit


WMP16 Chloride (mg/l)
Concentration (mg/l)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
Sample Date
Outlier removed from dataset
WMP16 Chloride (mg/l)
WMP16 Chloride (mg/l) Control
WMP16 Chloride (mg/l) Compliance Limit