



Western Australia Iron Ore (WAIO)

Quarterly Drinking Water Quality Report - Newman WL53 Operating Area

October – December
2025



Contents

1	Water Provider Information	3
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2	Performance Summary	4
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3	Microbial Performance	5
3.1	Microbiological – Compliance Summary	5
3.2	Microbiological – Exception Notification	6
3.3	Microbiological – Incident Specific Information	6

4	Chemical – Health Related Performance	7
4.1	Chemical – Health Related – Compliance Summary	7
4.2	Chemical – Health Related – Exception Notifications	9
4.3	Chemical – Health Related – Incident Specific Information	9

5	Chemical - Aesthetic Performance	10
5.1	Chemical – Aesthetic – Compliance Summary	10

6	Radiological Performance	11
6.1	Radiological – Compliance Summary	11
6.2	Radiological – Exception Notifications	11
6.3	Radiological – Incident Specific Information	11

7	Planned Sample Summary	12
7.1	Planned Sample – Compliance Summary	12
7.2	Planned Sample – Exceptions	12

8	General Notes/Other News	13
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1 Water Provider Information

Water Provider Contact Details	
Name of Company	BHP Western Australia Iron Ore
Company Address	PO Box 7122 Cloisters Square Perth WA 6850
General Manager Infrastructure and Services	E. Hayley
DoH Liaison Officer	N. Morris
Customer Enquiries	1800 421 077

2 Performance Summary

Water Quality Meeting the <i>Australian Drinking Water Guidelines v3.7 2022</i>			
	Newman Water Treatment Plant		
	Number of Samples Assessed	Number of Samples Within Guidelines	Number of Non-Conformances to Guidelines
Microbiological			
<i>E. coli</i>	29	29	0
Amoeba (Thermophilic <i>Naegleria</i>)	29	29	0
Chemical			
Chemical - Health	115	115	0
Chemical - Aesthetic	74	74	0
Radiological	2	2	0
	Newman Mine Services Industrial Area		
	Number of Samples Assessed	Number of Samples Within Guidelines	Number of Non-Conformances to Guidelines
Microbiological			
<i>E. coli</i>	3	3	0
Amoeba (Thermophilic <i>Naegleria</i>)	3	3	0
Chemical			
Chemical - Health	3	3	0
Chemical - Aesthetic	6	6	0
Radiological	0	0	0
	Newman North West Area		
	Number of Samples Assessed	Number of Samples Within Guidelines	Number of Non-Conformances to Guidelines
Microbiological			
<i>E. coli</i>	3	3	0
Amoeba (Thermophilic <i>Naegleria</i>)	3	3	0
Chemical			
Chemical - Health	3	3	0
Chemical - Aesthetic	6	6	0
Radiological	0	0	0

3 Microbial Performance

3.1 Microbiological – Compliance Summary

Newman Water Treatment Plant				
Microbiological Parameter	Compliance Criteria	Number of samples	Number of Compliant Samples	Compliance %
Bacterial				
<i>E. coli</i>	Non-Detect	29	29	100
Amoeba				
Thermophilic <i>Naegleria</i>	Non-Detect	29	29	100

Newman Mine Services Industrial Area				
Microbiological Parameter	Compliance Criteria	Number of samples	Number of Compliant Samples	Compliance %
Bacterial				
<i>E. coli</i>	Non-Detect	3	3	100
Amoeba				
Thermophilic <i>Naegleria</i>	Non-Detect	3	3	100

Newman North West Area				
Microbiological Parameter	Compliance Criteria	Number of samples	Number of Compliant Samples	Compliance %
Bacterial				
<i>E. coli</i>	Non-Detect	3	3	100
Amoeba				
Thermophilic <i>Naegleria</i>	Non-Detect	3	3	100

3.2 Microbiological – Exception Notification

Microbiological Water Quality Exceptions						
Locality	Population served	Date Result Notified	Microbiological Parameter	Alert Level	Date DoH Notified	Close Out Date

3.3 Microbiological – Incident Specific Information

No exception notifications recorded Quarter 4 2025.

4 Chemical – Health Related Performance

4.1 Chemical – Health Related – Compliance Summary

Newman Water Treatment Plant						
Parameter	Units	ADWG Health-Related Guideline	Number of Samples Assessed	Number of Compliant Samples	Compliance %	Maximum Value
Free Chlorine	mg/L	5	29	29	100	1.4
2,4-D	mg/L	0.03	1	1	100	<0.001
Antimony	mg/L	0.003	3	3	100	<0.001
Arsenic	mg/L	0.01	1	1	100	<0.0005
Atrazine	mg/L	0.02	1	1	100	<0.001
Benzene	mg/L	0.001	1	1	100	<0.0005
Bismuth	mg/L	N/A	3	3	100	<0.0005
Bromate	mg/L	0.02	1	1	100	<0.005
Bromoxynil	mg/L	0.01	1	1	100	<0.001
Cadmium	mg/L	0.002	3	3	100	<0.00005
Carbaryl	mg/L	0.03	1	1	100	<0.001
Chlorite	mg/L	0.8	1	1	100	<0.05
Chlorpyrifos	mg/L	0.01	1	1	100	<0.001
Chromium (as Cr VI)	mg/L	0.05	3	3	100	0.0008
Copper	mg/L	2	3	3	100	<0.0005
Cyfluthrin	mg/L	0.05	1	1	100	<0.001
Cypermethrin isomers	mg/L	0.2	1	1	100	<0.001
Deltamethrin	mg/L	0.04	1	1	100	<0.001
Diazinon	mg/L	0.004	1	1	100	<0.001
Dicamba	mg/L	0.1	1	1	100	<0.001
Dichlorvos	mg/L	0.005	1	1	100	<0.001
Dimethoate	mg/L	0.007	1	1	100	<0.001
Diuron	mg/L	0.02	1	1	100	<0.001
Ethylbenzene	mg/L	0.3	1	1	100	<0.0005
Fenthion	mg/L	0.007	1	1	100	<0.001
Fipronil	mg/L	0.0007	1	1	100	<0.0002
Glyphosate	mg/L	1	1	1	100	<0.01
Hexachlorobutadiene	mg/L	0.0007	1	1	100	<0.0005
Hexazinone	mg/L	0.4	1	1	100	<0.001
Lead	mg/L	0.01	3	3	100	<0.0005
Manganese	mg/L	0.5	1	1	100	<0.001
MCpA	mg/L	0.04	1	1	100	<0.001
Mercury	mg/L	0.001	1	1	100	<0.00005
Molybdenum	mg/L	0.05	2	2	100	0.0007
Nickel	mg/L	0.02	3	3	100	<0.001
Nitrate	mg/L	50	1	1	100	0.63
Nitritotriacetic acid	mg/L	0.2	1	1	100	<0.01

Nitrite	mg/L	3	1	1	100	<0.05
Organotins – Tributyltin oxide	mg/L	0.001	1	1	100	<0.000002
Perfluorooctanoic Acid (PFOA)	µg/L	0.56	1	1	100	<0.0002
Perfluorobutane sulfonate (PFBS)	µg/L	N/A	1	1	100	<0.001
Polycyclic aromatic hydrocarbons (Benzo-(a)-pyrene)	mg/L	0.00001	1	1	100	<0.000005
Permethrin	mg/L	0.2	1	1	100	<0.001
Picloram	mg/L	0.3	1	1	100	<0.001
Plasticisers - di(2-ethylhexyl) phthalate	mg/L	0.01	1	1	100	<0.00001
Silicon	mg/L	N/A	3	3	100	6.8
Styrene (vinylbenzene)	mg/L	0.03	1	1	100	<0.0005
Sum of Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS)	µg/L	0.07	1	1	100	<0.0002
Toluene	mg/L	0.8	1	1	100	<0.0005
Trichlorobenzenes (Total)	mg/L	0.03	1	1	100	<0.001
Triclopyr	mg/L	0.02	1	1	100	<0.001
Trihalomethanes	mg/L	0.25	1	1	100	<0.002
Uranium	mg/L	0.02	3	3	100	0.002
Vinyl chloride	mg/L	0.0003	1	1	100	<0.0003
Xylene	mg/L	0.6	1	1	100	<0.0005

Newman Water Treatment Plant						
Parameter	Units	ADWG Health-Related Guideline	Number of Samples Assessed	Number of Compliant Samples	Compliance %	Maximum Value
Fluoride	mg/L	1.5	13	13	100	0.9

Note: As of October 2023, fluoridated water is supplied to Newman WL53 Operating Area. See DoH media release ([Fluoridated drinking water in Newman set to combat tooth decay \(health.wa.gov.au\)](https://www.health.wa.gov.au/newsroom/flouridated-drinking-water-in-newman-set-to-combat-tooth-decay)).

Newman Mine Services Industrial Area						
Parameter	Units	ADWG Health-Related Guideline	Number of Samples Assessed	Number of Compliant Samples	Compliance %	Maximum Value
Free Chlorine	mg/L	5	3	3	100	1.2

Newman North West Area						
Parameter	Units	ADWG Health-Related Guideline	Number of Samples Assessed	Number of Compliant Samples	Compliance %	Maximum Value
Free Chlorine	mg/L	5	3	3	100	1.4

Note: Chlorine (as Free Chlorine residual) measured by field test instrument.
Chemical Health results other than chlorine for Mine Services Industrial Area and North West Area are represented by Newman Water Treatment Plant data.

4.2 Chemical – Health Related – Exception Notifications

Health Related Chemical Water Quality Exceptions						
Locality	Population served	Date Result Notified	Health Related Chemical Characteristic	Alert Level	Date DoH Notified	Close Out Date

4.3 Chemical – Health Related – Incident Specific Information

No exception notifications recorded Quarter 4 2025.

5 Chemical - Aesthetic Performance

5.1 Chemical – Aesthetic – Compliance Summary

Newman Water Treatment Plant						
Parameter	Units	ADWG Aesthetic-Related Guideline	Number of Samples Assessed	Number of Compliant Samples	Compliance %	Maximum Value
pH		6.5-8.5	29	29	100	7.7
Turbidity	NTU	5	29	29	100	0.2
Ammonia	mg/L	0.5	1	1	100	<0.01
Chloride	mg/L	250	1	1	100	66
Colour	HU	15	1	1	100	<1
Hardness (as Calcium carbonate)	mg/L	200	3	3	100	140
Iron	mg/L	0.3	3	3	100	<0.005
Silica	mg/L	80	1	1	100	14
Sodium	mg/L	180	1	1	100	50
Sulphate	mg/L	250	1	1	100	35
Total dissolved solids	mg/L	600	1	1	100	290
Zinc	mg/L	3	3	3	100	0.0019

Newman Mine Services Industrial Area						
Parameter	Units	ADWG Aesthetic-Related Guideline	Number of Samples Assessed	Number of Compliant Samples	Compliance %	Maximum Value
pH		6.5 – 8.5	3	3	100	7.6
Turbidity	NTU	5	3	3	100	0.3

Newman North West Area						
Parameter	Units	ADWG Aesthetic-Related Guideline	Number of Samples Assessed	Number of Compliant Samples	Compliance %	Maximum Value
pH		6.5 – 8.5	3	3	100	7.8
Turbidity	NTU	5	3	3	100	0.1

Note: pH and Turbidity measured by field test instrument.

Chemical Aesthetic results other than pH and turbidity for Mine Services Industrial Area and North West Area are represented by Newman Water Treatment Plant data.

To ensure effective disinfection and maintain microbial safety of drinking water throughout the system, BHPIO has made an operating decision to maintain chlorine levels above the ADWG aesthetic guideline value of 0.6 milligrams per litre.

6 Radiological Performance

6.1 Radiological – Compliance Summary

Newman Water Treatment Plant						
Parameter	Units	ADWG Screening Level	Number of Samples Assessed	Number of Compliant Samples	Compliance %	Maximum Value
Gross Alpha	Bq/L	0.5	1	1	100	0.07
Gross Beta	Bq/L	0.5	1	1	100	<0.072

Next Radiological samples scheduled for October 2027.

6.2 Radiological – Exception Notifications

Radiological Water Quality Exceptions					
Locality	Population served	Date Result Notified	Radiological Characteristic	Date DoH Notified	Close Out Date

6.3 Radiological – Incident Specific Information

No exception notifications recorded Quarter 4 2025.

7 Planned Sample Summary

7.1 Planned Sample – Compliance Summary

Newman Water Treatment Plant								
Microbiological			Chemical			Radiological		
Planned	Taken	%	Planned	Taken	%	Planned	Taken	%
58	58	100	189	189	100	2	2	100

Newman Mine Services Industrial Area								
Microbiological			Chemical			Radiological		
Planned	Taken	%	Planned	Taken	%	Planned	Taken	%
6	6	100	9	9	100	0	0	-

Newman North West Area								
Microbiological			Chemical			Radiological		
Planned	Taken	%	Planned	Taken	%	Planned	Taken	%
6	6	100	9	9	100	0	0	-

7.2 Planned Sample – Exceptions

Planned Samples Exceptions			
Locality	Planned Date	Parameter	Reason for Missed Sample

8 General Notes/Other News

Reporting for Newman WL53 Operating Area started as of July 2021 following the issue of Water Services Licence (WL53) in June 2021 by ERA. For further information, see [Regulatory information | BHP](#).

Newman Water Treatment Plant is the supply handover point to Water Corporation. For further information on Newman town water quality data, see Water Corporation Annual Drinking Water Report ([Drinking Water Quality Perth & WA | Water Quality Testing & More \(watercorporation.com.au\)](#)).

BHPIO has prepared Customer Charter in December 2020. Any enquiries, suggestions or complaints on the way we deliver our services, or if you would like any further information about the quality of water we supply, please contact BHPIO on 1800 421 077.

As part of ongoing infrastructure upgrades at the Newman Water Treatment Plant, raw water storage Tank 14 and drinking water storage Tank 16 were decommissioned in October 2025 and November 2025, respectively. There was no impact to drinking water supply or quality.