

From: [OJ Ojinaga](#)
To: [Dewey, Jeffrey](#)
Cc: [Paddock, Jeffrey J - DNR](#)
Subject: RE: Wausau Municipal water lead levels
Date: Thursday, March 7, 2024 2:39:50 PM
Attachments: [Image_002.pdf](#)

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Hi Jeff-

See the attached information I received from the city of Wausau, as you requested.

Let me know if this works.

On another note, we have our preliminary data from the VI sampling we conducted in February, and I will send it to you tomorrow.

Thanks-
OJ

From: Dewey, Jeffrey <Dewey.Jeffrey@epa.gov>
Sent: Monday, March 4, 2024 1:23 PM
To: OJ Ojinaga <oj.ojinaga@ghd.com>
Cc: Paddock, Jeffrey J - DNR <jeffrey.paddock@wisconsin.gov>
Subject: RE: Wausau Municipal water lead levels

Hi OJ,

I don't see a reply regarding reports/data for lead concentrations in CW6 and CW3 influent. Please ask the city about getting this information.

Best,
Jeff D.

From: Dewey, Jeffrey
Sent: Thursday, January 18, 2024 2:31 PM
To: OJ Ojinaga <oj.ojinaga@ghd.com>
Subject: Wausau Municipal water lead levels

Hi OJ,

I know the City of Wausau has some lead pipe issues, but I was wondering if they've done any sampling of the water coming into the water treatment system from CW6, 3, or the other wells. Could you ask the city for any reports/data on lead concentrations in water before treatment?

No rush on this information, but it will be relevant in the coming months.

Best,
Jeff

Remedial Project Manager (RPM)
Remedial Response Branch 2, Section 6
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312-353-1526

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December 2022 Raw Water (Well) Analysis Results:

Parameter	Units	Well 3	Well 6	Well 7	Well 9	Well 10	Well 11
Alkalinity, tot. as CaCO ₃ (unfiltered)	mg/L	73	67	77	97	54	49
Aluminum, tot. recoverable as Al by ICP-MS	mg/L	0.065	ND	ND	ND	[0.010]	[0.0090]
Antimony, tot. recoverable as Sb by ICP-MS	ug/L	ND	ND	ND	ND	ND	ND
Arsenic, tot. recoverable as As by ICP-MS	ug/L	[2.1]	[1.3]	[1.3]	ND	[1.7]	ND
Barium, tot. recoverable as Ba by ICP-MS	ug/L	24	31	24	43	15	13
Beryllium, tot. recoverable as Be by ICP-MS	ug/L	ND	ND	ND	ND	ND	ND
Bromide, as Br- (unfiltered)	ug/L	35	32	17	36	13	12
Chlorate, as ClO ₃ ⁻ (unfiltered)	ug/L	ND	ND	40	ND	ND	ND
Bromate, as BrO ₃ ⁻ by 317.0 (unfiltered)	ug/L	ND	ND	ND	ND	ND	ND
Cadmium, tot. recoverable as Cd by ICP-MS	ug/L	ND	ND	ND	ND	ND	ND
Calcium, tot. recoverable as Ca by ICP-MS	mg/L	26	25	19	36	14	14
Chlorite	ug/L	ND	ND	ND	ND	ND	ND
Chromium, tot. recoverable as Cr by ICP	ug/L	ND	ND	ND	ND	ND	ND
Color, APHA (true)	C.P.U.	35	30	20	ND	30	25
Conductivity, lab	umho/cm@25C	349	326	208	398	153	152
Copper, tot. recoverable as Cu by ICP-MS	ug/L	6.5	7.1	6	[2.6]	[4.1]	6.8
Cyanide, tot. (distilled) as CN	mg/L	ND	ND	ND	ND	ND	ND
Fluoride, as F (unfiltered)	mg/L	[0.090]	[0.080]	[0.065]	[0.058]	[0.060]	[0.057]
Hardness, tot. recoverable as CaCO ₃ (calc/unfilt/icpms)	mg/L	91	93	73	140	54	53
Iron, tot. recoverable as Fe by ICP	mg/L	2.5	1.9	0.56	0.5	0.79	0.58
Lead, tot. recoverable as Pb by ICP-MS	ug/L	ND	ND	ND	ND	ND	ND
Magnesium, tot. recoverable as Mg by ICP-MS	mg/L	6.6	7.7	5.9	11	4.6	4.4
Manganese, tot. recoverable as Mn by ICP-MS	ug/L	2900	2800	3000	760	1700	1400
Mercury, tot. recoverable as Hg by ICP-MS	ug/L	ND	ND	ND	ND	ND	ND
Nickel, tot. recoverable as Ni by ICP-MS	ug/L	[1.1]	[1.6]	ND	[1.5]	ND	[1.3]
Nitrogen, ammonia as N (unfiltered)	mg/L	0.49	0.2	0.2	ND	0.29	0.18
Carbon Dioxide	mg/L	8	6	9	12	5	5
pH, Lab	s.u.	6.6	6.6	6.8	6.5	6.8	6.7
Selenium, tot. recoverable as Se by ICP-MS	ug/L	ND	ND	ND	ND	ND	ND
Silica/Silicate, as SiO ₂ , unfilt	mg/L	12	11	10	9	9.4	8.8
Silver, tot. recoverable as Ag by ICP-MS	ug/L	ND	ND	ND	ND	ND	ND
Sodium, tot. recoverable as Na by ICP	mg/L	24	20	7.4	18	5.4	5.2
Solids, tot. dis. (TDS)	mg/L	220	160	120	230	98	89
Thallium, tot. recoverable as Tl by ICP-MS	ug/L	ND	ND	ND	ND	ND	ND
Total Organic Carbon (TOC)	mg/L	5.5	4.6	5.3	2.4	6.2	5.9
Turbidity, Lab	NTU	5	3.3	2.7	1.7	0.78	ND
Zinc, tot. recoverable as Zn by ICP-MS	ug/L	8.9	ND	ND	[5.3]	ND	9.4
Lab filtration for TDS		yes	yes	yes	yes	yes	yes
Lab Filtration for True Color		yes	yes	yes	yes	yes	yes

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD)

LOD = Limit of Detection

LOQ = Limit of Quantitation

NA = Not Applicable

DWB = Dry Weight Basis

%DWB = (mg/kg DWB) / 10000

1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples.

Shaded results indicate >MCL.