

Wisconsin Geological and Natural History Survey Open-File Report 2019-01
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Appendix D. ICP-MS results

Analyses performed by ALS Global using method ME-MS61L (four acid digestion for near-total super trace analysis).

See report text for more details.

See also appendix 5 of Zambito and others (2016) for comparison with pXRF data.

GEOCHEMISTRY and MINERALOGY of the WONEWOC–TUNNEL CITY CONTACT INTERVAL STRATA

Appendix D. ICP-MS Results

Site	Region	Site Name	WID	Sample	Unit	As (ppm)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Mn (ppm)	Mo (ppm)	Ni (ppm)	Pb (ppm)	U (ppm)	V (ppm)	Zn (ppm)
2	west-central	WGNHS Belisle Quarry	56000829	132.0	Tunnel City	4.060	0.048	11.950	37.300	7.590	1940.000	0.380	12.950	8.240	1.350	40.200	15.500
2	west-central	WGNHS Belisle Quarry	56000829	146.0	Tunnel City	3.730	0.006	5.630	19.300	1.010	87.900	0.080	4.490	4.130	0.510	18.700	5.700
2	west-central	WGNHS Belisle Quarry	56000829	182.0	Wonewoc	0.490	0.034	32.000	11.600	22.200	16.000	0.120	5.190	2.230	0.650	15.000	13.500
2	west-central	WGNHS Belisle Quarry	56000829	199.0	Wonewoc	1.420	0.006	2.510	3.000	4.420	14.400	0.140	3.670	2.000	2.640	3.400	2.900
5	west-central	WGNHS Arcadia Quarry	62000166	290.0	Tunnel City	2.480	<0.005	13.100	29.700	3.570	212.000	0.040	12.250	4.580	1.350	34.000	10.100
5	west-central	WGNHS Arcadia Quarry	62000166	293.7	Tunnel City	2.230	0.005	27.500	4.700	64.200	83.900	0.300	8.270	5.920	0.630	7.400	1.500
5	west-central	WGNHS Arcadia Quarry	62000166	296.6	Tunnel City	43.800	3.700	100.000	41.400	269.000	167.500	1.100	149.000	22.800	1.720	31.900	4860.000
5	west-central	WGNHS Arcadia Quarry	62000166	309.4	Tunnel City	547.000	<0.005	19.600	34.000	21.500	151.500	2.380	42.300	17.300	1.800	34.100	9.000
5	west-central	WGNHS Arcadia Quarry	62000166	309.5	Tunnel City	5.560	<0.005	10.150	44.000	4.650	179.000	0.170	11.650	10.250	1.950	47.200	11.700
5	west-central	WGNHS Arcadia Quarry	62000166	310.5	Tunnel City	4.710	<0.005	8.250	40.500	2.850	128.000	0.110	9.690	10.900	2.290	42.100	8.700
5	west-central	WGNHS Arcadia Quarry	62000166	313.5	Tunnel City	3.030	<0.005	4.140	28.200	3.220	318.000	0.070	4.860	9.770	1.450	22.400	7.700
5	west-central	WGNHS Arcadia Quarry	62000166	313.7	Tunnel City	30.400	0.005	62.200	32.000	174.500	1700.000	0.310	158.000	11.500	0.560	107.500	16.700
5	west-central	WGNHS Arcadia Quarry	62000166	313.8	Tunnel City	42.700	<0.005	14.150	17.800	4.670	1885.000	0.470	20.700	13.000	0.490	51.900	17.000
5	west-central	WGNHS Arcadia Quarry	62000166	313.9	Tunnel City	5.930	<0.005	3.480	4.200	1.280	2630.000	0.140	5.900	2.050	0.190	7.700	8.600
5	west-central	WGNHS Arcadia Quarry	62000166	314.0	Tunnel City	23.600	<0.005	15.200	17.000	25.100	1935.000	0.270	12.800	8.560	0.820	23.200	11.500
5	west-central	WGNHS Arcadia Quarry	62000166	314.1	Tunnel City	4.530	<0.005	4.130	5.800	1.230	1150.000	0.730	4.310	8.520	0.660	16.600	9.500
5	west-central	WGNHS Arcadia Quarry	62000166	314.2	Tunnel City	5.030	0.005	9.020	7.100	12.500	1075.000	0.720	4.550	8.940	0.650	18.100	10.700
5	west-central	WGNHS Arcadia Quarry	62000166	314.3	Tunnel City	19.600	<0.005	12.200	28.500	2.000	1610.000	0.180	16.700	7.220	0.650	41.200	17.000
5	west-central	WGNHS Arcadia Quarry	62000166	314.4	Tunnel City	7.620	<0.005	10.850	38.100	3.470	1190.000	0.080	12.250	4.500	1.390	23.200	16.000
5	west-central	WGNHS Arcadia Quarry	62000166	320.0	Tunnel City	4.610	<0.005	9.780	31.500	8.400	1100.000	0.080	10.500	5.070	0.850	21.800	10.600
5	west-central	WGNHS Arcadia Quarry	62000166	323.9	Tunnel City	5.180	<0.005	9.050	23.300	5.050	1680.000	0.250	10.400	5.980	1.140	21.900	10.700
5	west-central	WGNHS Arcadia Quarry	62000166	325.8	Tunnel City	4.850	0.006	19.850	21.500	15.700	931.000	0.750	17.400	17.800	1.390	17.400	10.900
5	west-central	WGNHS Arcadia Quarry	62000166	334.9	Tunnel City	3.650	<0.005	7.000	8.700	2.950	29.200	0.050	5.510	5.290	0.660	9.000	5.300
5	west-central	WGNHS Arcadia Quarry	62000166	338.4	Tunnel City	139.500	<0.005	17.550	8.400	88.100	31.900	1.300	17.300	14.650	0.590	12.000	5.500
5	west-central	WGNHS Arcadia Quarry	62000166	339.7	Tunnel City	19.550	0.011	25.300	2.400	11.050	142.000	1.540	15.450	49.600	3.340	3.400	2.500
5	west-central	WGNHS Arcadia Quarry	62000166	345.5	Tunnel City	1.580	0.006	10.650	9.200	11.900	44.400	0.260	4.790	11.600	0.970	8.200	1.400
5	west-central	WGNHS Arcadia Quarry	62000166	346.5	Tunnel City	3.510	0.007	9.420	90.600	26.500	100.500	0.640	16.400	29.900	4.010	113.000	11.600
5	west-central	WGNHS Arcadia Quarry	62000166	347.7	Tunnel City	2.740	<0.005	5.790	2.500	5.110	423.000	0.570	5.740	9.790	0.390	3.700	1.600
5	west-central	WGNHS Arcadia Quarry	62000166	350.9	Wonewoc	3.960	<0.005	10.600	54.000	19.650	83.400	0.630	13.800	33.100	2.280	53.300	8.000
5	west-central	WGNHS Arcadia Quarry	62000166	353.2	Wonewoc	0.420	<0.005	1.575	2.800	3.730	4.000	0.070	2.880	5.220	0.380	2.800	0.700
5	west-central	WGNHS Arcadia Quarry	62000166	357.1	Wonewoc	0.710	<0.005	4.970	1.500	9.650	4.300	0.290	2.940	3.200	0.440	1.900	1.500
5	west-central	WGNHS Arcadia Quarry	62000166	359.8	Wonewoc	3.900	0.031	94.600	14.300	645.000	13.400	1.440	7.140	9.040	0.400	2.000	1.700
5	west-central	WGNHS Arcadia Quarry	62000166	375.7	Wonewoc	0.900	<0.005	21.500	16.000	37.200	30.900	0.300	9.620	7.330	1.300	15.900	2.600
5	west-central	WGNHS Arcadia Quarry	62000166	376.5	Wonewoc	1.610	<0.005	18.700	38.900	31.500	38.700	0.570	12.200	15.600	2.210	48.900	7.900
5	west-central	WGNHS Arcadia Quarry	62000166	383.1	Wonewoc	1.440	0.008	10.550	2.900	5.060	17.200	0.190	4.520	16.200	0.670	2.500	1.100
5	west-central	WGNHS Arcadia Quarry	62000166	384.5	Wonewoc	2.700	0.008	10.950	18.100	12.100	75.400	0.750	10.900	30.100	1.130	16.700	2.700
5	west-central	WGNHS Arcadia Quarry	62000166	394.0	Wonewoc	0.700	0.006	4.340	1.700	3.740	36.200	0.150	3.490	6.140	0.260	1.800	0.600
5	west-central	WGNHS Arcadia Quarry	62000166	395.5	Wonewoc	8.210	0.012	13.600	26.300	21.500	39.000	3.180	16.500	42.500	1.940	62.600	2.900
5	west-central	WGNHS Arcadia Quarry	62000166	398.0	Wonewoc	0.170	<0.005	0.608	0.900	1.560	1.400	0.110	1.960	1.740	0.300	0.800	0.900
5	west-central	WGNHS Arcadia Quarry	62000166	405.5	Wonewoc	3.980	0.012	9.490	14.200	16.400	78.100	0.410	9.310	23.700	1.470	13.100	2.200
5	west-central	WGNHS Arcadia Quarry	62000166	430.5	Wonewoc	1.770	0.008	5.010	13.500	6.350	74.200	0.760	8.820	15.700	1.200	13.800	3.700
5	west-central	WGNHS Arcadia Quarry	62000166	442.5	Wonewoc	2.650	0.008	4.130	9.400	6.020	3790.000	0.410	8.540	20.500	0.540	8.400	6.300
5	west-central	WGNHS Arcadia Quarry	62000166	445.0	Wonewoc	1.420	0.009	1.785	7.400	3.670	48.200	0.220	5.890	11.150	0.510	4.600	2.300
6	west-central	Granddad Bluff La Crosse	outcrop	3.95a	Tunnel City	1.720	<0.005	9.630	3.500	19.100	2160.000	1.110	14.800	4.480	0.700	6.700	2.600
6	west-central	Granddad Bluff La Crosse	outcrop	3.95b	Tunnel City	13.400	<0.005	30.600	10.600	13.600	1140.000	5.470	123.500	21.200	2.070	12.500	9.400
6	west-central	Granddad Bluff La Crosse	outcrop	3.95c	Tunnel City	5.650	0.007	16.500	8.200	2.600	1765.000	2.450	34.700	11.200	1.070	8.300	4.000
6	west-central	Granddad Bluff La Crosse	outcrop	3.95d	Tunnel City	7.820	0.005	19.250	5.100	45.100	1185.000	2.400	73.300	15.300	0.780	6.000	13.100
6	west-central	Granddad Bluff La Crosse	outcrop	3.25a	Tunnel City	1.330	0.042	5.050	4.400	3.520	1860.000	0.130	5.610	2.280	0.550	8.100	31.400
6	west-central	Granddad Bluff La Crosse	outcrop	0.95	Tunnel City	4.970	0.011	21.500	2.900	25.300	24.700	0.430	6.560	11.650	1.210	2.400	5.100
6	west-central	Granddad Bluff La Crosse	outcrop	-0.65	Wonewoc	0.710	0.007	2.970	4.700	3.870	24.400	0.140	0.830	5.780	1.340	3.700	1.000
6	west-central	Granddad Bluff La Crosse	outcrop	-3.55	Wonewoc	0.600	0.007	0.395	2.300	0.860	7.800	0.070	0.540	8.760	0.380	2.100	1.300
7	west-central	Arbor Hills Addition Well	32000107	257.5	Tunnel City	10.350	0.015	11.350	31.400	8.030	337.000	0.400	15.200	7.740	1.250	34.500	11.700
7	west-central	Arbor Hills Addition Well	32000107	402.5	Wonewoc	0.330	0.008	0.508	3.200	1.790	6.500	0.180	1.030	1.140	0.620	2.000	2.600
17	south-central	WGNHS Triemstra Quarry	11005900	165.0	Tunnel City	0.810	0.023	11.400	48.600	2.160	248.000	0.120	5.270	7.060	1.820	28.500	9.400
17	south-central	WGNHS Triemstra Quarry	11005900	166.0	Tunnel City	1.000	0.091	4.040	4.900	2.340	799.000	0.060	2.550	0.840	0.350	5.400	5.800
17	south-central	WGNHS Triemstra Quarry	11005900	171.0	Wonewoc	0.150	0.009	57.800	3.200	1.460	43.500	0.130	1.050	0.870	0.300	1.500	1.500
17	south-central	WGNHS Triemstra Quarry	11005900	176.0	Wonewoc	0.820	0.032	12.450	19.800	3.120	337.000	0.080	3.060	4.950	0.790	13.200	5.600
17	south-central	WGNHS Triemstra Quarry	11005900	180.0	Wonewoc	0.080	<0.005	26.700	1.600	4.820	2.100	0.060	1.030	0.370	0.250	2.000	1.400