City of Lancaster, Ohio
Division of Water
Miller Park Wellhead Protection Program
Historical Groundwater Quality Data

MW-1S (Oct-95 – Oct-01)

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	Oct-95	Jan-96	Apr-96	Jul-96	Feb-97	Apr-97	Jul-97	Oct-97	Jun-98	Dec-98	Jul-99	Apr-00	Nov-00	May-01	Oct-01
INORGANICS																	
ALUMINUM	mg/L	50 to 200 (S)	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	51	ND	NA	NA
ANTIMONY	ug/L	6	ND	ND	ND	ND	4.00	ND	4.20	7.60	ND	ND	ND	ND	4.00	ND	ND
ARSENIC	ug/L	10.0	6.0	6.0	6.0	ND	9.7	8.4	6.4	8.4	7.2	8.0	9.1	6.4	6.0	10.0	12.0
BARIUM	ug/L	2000	180	170	160	ND	170	190	228	179	216	201	184	192	175	227	224
BERYLLIUM	ug/L	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
CADMIUM	ug/L	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CALCIUM	mg/L	--	110	110	150	145	120	110	120	107	260	117	122	125	120	140	120
CHROMIUM	ug/L	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COBALT	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COPPER	ug/L	1000 (S) / 1300 (A)	ND	ND	ND	ND	ND	ND	ND	ND	31.0	13.0	ND	ND	ND	NA	NA
CYANIDE	mg/L	0.2	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	ug/L	300 (S)	2400	3000	2500	2000	3200	2600	2590	2400	2400	2800	2500	3100	3010	3340	3830
LEAD	ug/L	15 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	mg/L	--	34.0	37.0	45.0	39.0	37.0	38.0	36.0	36.0	76.0	40.0	38.0	41.9	38.0	44.0	45.0
MANGANESE	ug/L	50 (S)	200	220	510	500	260	300	270	200	319	213	215	267	270	320	320
MERCURY	ug/L	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POTASSIUM	mg/L	--	2.8	3.1	3.6	ND	3.0	3.8	3.4	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SILVER	ug/L	100 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	mg/L	--	51	56	62	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFIDE	mg/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0	ND	2.0
THALLIUM	ug/L	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TIN	ug/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	60.00	ND	ND
VANADIUM	mg/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ZINC	ug/L	5000 (S)	30	10	10	21	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND
Method 8260	Varies	Varies	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FIELD PARAMETERS																	
STATIC WATER LEVEL	* from reference point																
TEMPERATURE	°C	--	20.0	14.4	19.4	18.9	13.9	15.0	15.0	14.4	15.0	14.4	NM	15.6	11.3	15.5	14.3
pH	S.U.	6.5-8.5 (S)	7.20	7.10	7.10	7.50	7.20	7.40	7.20	7.40	7.10	7.40	7.10	7.90	6.93	6.80	7.20
CONDUCTIVITY	umhos/cm	--	751	847	1087	870	1175	1050	1100	1000	980	1000	940	1060	1169	1040	1120

MW-1S (May-02 – Apr-19)

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	May-02	Nov-02	May-03	Nov-03	May-04	Nov-04	May-05	Nov-05	Apr-06	Oct-06	May-07	Nov-07	Jun-08	Nov-08	Jul-09	Mar-15	Apr-16	Oct-16	Apr-17	Oct-17	Apr-18	Oct-18	Apr-19
INORGANICS																									
ALUMINUM	mg/L	50 to 200 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
ANTIMONY	ug/L	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	ug/L	10.0	6.8	6.5	5.5	6.2	5.9	6.3	6.5	ND	ND	ND	ND	ND	10.5	5.4	ND	4.0	3.0	ND	ND	4	5	ND	5
BARIUM	ug/L	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	207	191	214	199	199	214	256	219
BERYLLIUM	ug/L	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM	ug/L	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CALCIUM	mg/L	--	117	127	130	135	144	136	161	147	140	140	142	158	146	156	145	194	154	174	170	150	158	174	158
CHROMIUM	ug/L	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COBALT	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COPPER	ug/L	1000 (S) / 1300 (A)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
CYANIDE	mg/L	0.2	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	ug/L	300 (S)	2800	2840	2870	2930	3580	2030	3120	1610	1510	1170	1950	1550	2410	885	2720	755	ND	214	535	736	1050	ND	1050
LEAD	ug/L	15 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	mg/L	--	41.7	41.9	40.2	40.4	45.9	46.0	50.8	49.2	48.4	46.6	46.2	52.9	49.2	51.8	48.2	46.5	51.8	59.4	54.4	48.8	50.0	54.7	47.9
MANGANESE	ug/L	50 (S)	273	251	299	253	364	309	385	506	401	489	488	721	456	661	448	281	270	270	260	226	229	196	203
MERCURY	ug/L	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POTASSIUM	mg/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.7	5.7	5.2	6.1	5.9	5.0	4.5	5.0
SELENIUM	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SILVER	ug/L	100 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	mg/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	132	123	139	122	124	148	147	138
SULFIDE	mg/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	ND	0.09	ND
THALLIUM	ug/L	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TIN	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VANADIUM	mg/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ZINC	ug/L	5000 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	15	24
Method 8260	Varies	Varies	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FIELD PARAMETERS																									
STATIC WATER LEVEL	* from reference point																	24.85	23.84	24.91	23.28	24.17	22.05	23.55	22..7
TEMPERATURE	°C	--	15.4	15.0	15.6	15.3	16.0	15.7	15.7	15.7	16.5	15.7	16.2	16.0	16.0	16.1	17.0	17.0	17.2	19.1	18.3	17.9	14.7	18.1	17.3
pH	S.U.	6.5-8.5 (S)	7.40	7.13	6.96	6.95	6.52	6.98	7.02	7.02	6.98	7.01	6.98	7.02	7.02	6.84	7.02	6.98	6.86	6.91	6.96	6.92	7.01	7.15	6.61
CONDUCTIVITY	umhos/cm	--	960	1035	851	1105	871	1140	897	1312	945	762	740	843	772	746	1337	1438	1605	1157	1005	1723	1850	1937	1807

(S) = Secondary Maximum Contaminant Level

(A) = Action Level

(O) = Ohio EPA Primary Maximum Contaminant Level

D = DETECTED

ND = NOT DETECTED

NA = NOT ANALZED

NM = NOT MEASURED