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

MW-4S

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	Oct-95	Jan-96	Apr-96	Jul-96	Feb-97	Apr-97	Jul-97	Oct-97	Jan-98	Dec-98	Jul-99	Apr-00	Nov-00	May-01	Oct-01	May-02	Nov-02	May-03	Nov-03	May-04	Oct-04	May-05	Nov-05	Apr-06	Oct-06	May-07	Nov-07	Jun-08	Nov-08	Jul-09	Apr-15	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Apr-17	Jul-17	Oct-17	Apr-18	Oct-18	Apr-19	Oct-19	Jun-20	Oct-20	Apr-21
INORGANICS																																																							
ALUMINUM	mg/L	50 to 200 (S)	70	210	ND	ND	ND	ND	ND	ND	ND	660	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANTIMONY	ug/L	6	ND	ND	ND	ND	6.5	ND	ND	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	3.0	6.0	22.0	14.7	17.0	34.0	1.7	18.0	19.0	10.0	11.0	11.6	7.0	17.0	14.0	15.2	8.6	11.6	9.8	12.2	9.4	16.5	19.2	18.3	21.4	28.0	57.0	53.4	32.0	34.8	19.0	15.0	15.0	7.0	7.0	6.0	6.5	9.2	11.6	14.0	11.3	12.2	10.7	9.4	9.7	11.0	17.0	8.0	15.0	52.0	36.0	11.9	15.0
BARIUM	ug/L	2000	420	420	570	660	560	520	604	458	<10.0	469	532	487	409	531	455	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	707	635	676	609	557	607	685	699	666	712	686	675	690	721	675	627	739	730	802	925	962	874	800
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	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	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	--	140	130	130	152	140	130	140	122	130	136	154	131	140	150	140	131	144	164	160	159	152	164	149	172	183	179	153	157	174	156	208	178	176	180	165	179	175	178	181	178	179	183	184	178	180	167	180	198	182	209	188	183	170
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	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	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)	ND	ND	<10.0	<25.0	<20.0	<20.0	10.0	<10.0	16.0	<10.0	<20.0	<20.0	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYANIDE	mg/L	0.2	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	ug/L	300 (S)	4100	6900	9700	9500	11000	10000	8200	8600	10000	10000	9400	9400	8700	10300	9700	8940	8600	9590	7530	9180	8860	9140	10000	11900	11800	12600	12000	12400	12000	11800	1080	4580	2730	198	274	1540	129	1100	801	4260	1830	1560	1210	750	1780	1660	5470	150	3940	16800	14700	1770	2680
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	ND	ND	ND	ND	ND	ND	ND	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	--	33.0	31.0	31.0	34.0	31.0	32.0	32.0	31.0	29.0	29.0	33.0	31.6	32.0	35.0	35.0	33.4	34.9	37.9	35.1	36.7	37.3	38.0	35.4	42.3	41.8	39.3	36.3	35.8	39.6	34.6	33.7	43.0	42.3	43.0	42.9	40.2	39.3	44.9	42.8	45.2	41.8	41.5	42.6	41.8	40.0	37.0	38.7	39.6	38.9	40.8	ND	41.7	41.1
MANGANESE	ug/L	50 (S)	310	260	360	370	320	340	310	260	303	267	256	279	250	310	260	273	235	266	218	271	247	262	283	336	333	388	376	435	356	362	383	330	347	335	347	336	368	377	393	383	402	419	459	450	338	334	370	357	460	399	441	467	442
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	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	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	--	11.0	9.2	8.3	11.0	11.0	9.6	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.2	14.2	14.0	14.1	14.0	14.6	14.5	14.0	14.0	14.4	13.7	15.1	15.4	14.9	15.0	14.8	13.8	15.0	14.1	17.5	16.4	13.3	13.0
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	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	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	--	48.0	42.0	39.0	43.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49.1	49.0	52.4	47.0	47.8	47.3	45.9	53.7	52.8	59.9	48.9	54.4	53.5	46.7	49.0	45.0	53.6	59.0	56.9	76.5	86.3	71.3	73.5
SULFIDE	mg/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.00	1.00	2.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	0.06	ND	0.06	ND	ND	ND	ND	0.08	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
TIN	ug/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	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)	20	20	10	23	ND	11	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.3	14.4	ND	ND	ND	ND	ND	ND	ND	3.0
VOLATILE ORGANICS VOC'S																																																							
Method 8260	Varies	Varies	D[1]	ND	ND	D[2]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	D[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			D[1] - CARBON DISULFIDE (7ug/l), D[2] - (ACETONE (5ug/l), CARBON DISULFIDE (2ug/l)), D[3] - MTBE (2.0 ug/L)																																																					
FIELD PARAMETERS																																																							
STATIC WATER LEVEL	* from reference point																																12.60	12.16	11.61	11.59	12.48	12.68	12.76	12.82	12.87	12.93	12.69	11.98	11.88	11.23	11.71	12.90	10.73	11.88	11.86	13.38	10.45	12.15	11.55
TEMPERATURE	°C	--	17.2	16.1	16.7	18.3	13.3	12.8	13.3	15.0	13.9	14.4	NM	13.3	12.3	13.9	14.9	14.3	15.0	14.2	15.5	14.7	15.4	14.3	16.2	15.0	15.9	15.9	16.4	15.1	16.0	16.5	14.3	17.0	17.1	16.2	16.1	16.2	16.7	16.8	17.1	17.2	16.2	16.5	16.5	16.4	18.3	19.4	14.4	18.8	18.7	17.5	15.8	17.4	14.8
pH	S.U.	6.5-8.5 (S)	7.20	7.10	7.20	7.10	7.10	7.30	7.10	7.00	7.00	7.10	7.10	7.00	6.88	6.60	7.20	7.10	6.96	6.90	7.00	6.42	6.98	7.03	7.02	6.94	6.98	6.98	7.00	7.00	6.83	7.00	6.99	6.84	6.90	6.85	7.01	6.75	6.79	6.98	6.94	6.90	6.82	6.89	6.82	6.97	7.08	6.72	6.93	6.92	6.71	6.56	6.79	6.96	7.26
CONDUCTIVITY	umhos/cm	--	871	858	913	890	1100	1100	1100	975	1050	1100	1050	1110	1207	990	1150	980	1123	1069	741	920	1121	828	923	838	746	746	781	803	636	1114	1133	1450	1290	1379	1075	1193	1382	1295	1083	1263	1097	1053	1134	1049	1370	1253	1423	1555	1544	1741	1761	1695	1724

(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

*** Jan. 2017 - VOC's Out of Hold Time when analyzed**