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

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	MW-5S																
			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	May-02	Nov-02
INORGANICS																			
ALUMINUM	mg/L	50 to 200 (S)	ND	ND	740	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
ANTIMONY	ug/L	6	ND	ND	ND	ND	4.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	ug/L	10.0	ND	13	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM	ug/L	2000	610	320	740	520	400	430	340	380	564	549	504	549	286	329	177	NA	NA
BERYLLIUM	ug/L	4.0	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
CALCIUM	mg/L	--	140	85	150	179	150	150	160	134	140	141	166	187	150	190	160	159	168
CHROMIUM	ug/L	100	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
COPPER	ug/L	1000 (S) / 1300 (A)	ND	<10.0	10.00	<25.0	<20.0	<20.0	<10.0	<10.0	11.00	<10.0	<20.0	<20.0	<10.0	NA	NA	NA	NA
CYANIDE	mg/L	0.2	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	ug/L	300 (S)	1800	490	4200	4900	6500	5400	3100	4400	5400	5800	4500	7660	8400	9350	9020	6200	6810
LEAD	ug/L	15 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	mg/L	--	36.0	24.0	43.0	43.0	36.0	39.0	38.0	36.0	37.0	36.0	38.0	49.8	33.0	445.0	37.0	40.0	37.8
MANGANESE	ug/L	50 (S)	130	330	190	310	250	230	280	200	230	104	89	142	120	250	160	141	179
MERCURY	ug/L	2.0	ND	ND	0.20	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
POTASSIUM	mg/L	--	2.7	1.2	2.8	ND	2.5	2.6	2.8	NA	NA	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	ND	ND
SILVER	ug/L	100 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	mg/L	--	25.0	9.1	30.0	32.0	NA	NA	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	2.00	1.00	2.00	ND	ND
THALLIUM	ug/L	2.0	ND	ND	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	NA	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
ZINC	ug/L	5000 (S)	30	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANICS VOC'S																			
Method 8260	Varies	Varies	ND	D^1	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	--	17.8	18.3	16.1	16.1	12.8	9.4	12.8	14.4	13.3	13.9	NM	12.8	10.4	13.9	14.3	13.8	15.3
pH	S.U.	6.5-8.5 (S)	7.40	7.90	7.20	7.40	7.20	7.60	6.90	7.10	7.30	7.30	7.20	7.60	6.98	6.58	7.30	7.30	7.09
CONDUCTIVITY	umhos/cm	--	765	458	926	940	1050	1200	1100	1000	1000	1000	1000	1350	1139	1130	1100	1030	1109

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	MW-5S																						
			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	Apr-16	Oct-16	Apr-17	Oct-17	Apr-18	Oct-18	Apr-19	Jun-20	Oct-20
INORGANICS																									
ALUMINUM	mg/L	50 to 200 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM	ug/L	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	279	240	230	232	222	220	237	202	206	207
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	--	168	182	196	196	196	170	171	185	176	172	165	171	151	179	169	178	173	150	156	174	154	151	155
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYANIDE	mg/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.023	ND	ND	ND	ND	ND
IRON	ug/L	300 (S)	6910	6740	7690	8170	7270	7520	7270	7610	7010	7380	6660	6910	5850	351	ND	139	ND	978	546	1150	179	4070	ND
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	--	36.7	38.0	43.5	47.0	42.3	40.1	42.4	41.9	40.1	40.9	38.4	40.1	35.1	38.5	40.6	40.8	38.1	34.3	35.0	35.6	33.7	32.0	33.2
MANGANESE	ug/L	50 (S)	135	161	186	171	153	169	189	194	204	188	213	206	194	159	179	188	204	170	161	163	157	168	163
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	3.4	3.4	3.2	3.6	3.3	3.0	2.9	2.6	2.6	2.3
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	26.5	28.6	35.7	33.6	32.2	31.0	32.0	28.6	30.3	29.1
SULFIDE	mg/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	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
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	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47	11.2	ND	ND	76.0	ND	ND	ND
VOLATILE ORGANICS VOC'S																									
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															9.34	5.10	6.55	5.96	5.89	4.09	5.41	5.90	5.37	5.30
TEMPERATURE	°C	--	13.1	14.9	13.7	15.1	13.6	15.3	14.0	15.0	15.0	15.0	14.1	15.6	15.8	14.9	15.0	16.8	17.0	17.3	12.7	20.3	16.5	16.1	16.2
pH	S.U.	6.5-8.5 (S)	7.09	7.03	6.54	7.16	7.14	7.12	7.06	7.08	7.08	7.08	7.10	7.08	7.07	7.15	7.08	7.11	7.02	7.07	7.09	7.13	6.84	6.90	7.11
CONDUCTIVITY	umhos/cm	--	829	1244	907	1205	804	919	790	659	659	726	669	578	1009	1007	993	734	710	1083	1073	1211	1062	1046	1067

D^1 - Carbon Disulfate (16 ug/l)

(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