

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

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	MW-4																								
			May-02	Nov-02	May-03	Nov-03	May-04	Nov-04	May-05	Nov-05	May-06	Nov-06	May-07	Nov-07	Jul-08	Nov-08	May-09	Apr-15	Apr-16	Oct-17	Apr-18	Oct-18	Nov-19	Nov-20			
INORGANICS																											
MERCURY	ug/L	2.0	ND	ND	ND	ND																					
ANTIMONY	ug/L	6.0	ND	ND	ND	ND																					
ARSENIC	ug/L	10.0	5.5	ND	ND	5.6	5.3	5.4	5.8	6.4	5.6	6.5	7	ND	12.6	12.4	9.1	7	8	6	7	6	6	7			
THALLIUM	ug/L	2.0	ND	ND	ND																						
BERYLLIUM	ug/L	4.0	ND	ND	ND																						
CADMIUM	ug/L	5.0	ND	ND	ND																						
CALCIUM	mg/L	--	81.3	80.4	78.5	79.6	83.8	80.1	86.7	79.7	68.7	85.2	73.7	74.7	86.5	91.1	91.8	116	124	106	99.6	85.7	93.1	88.8			
CHROMIUM	ug/L	100.0	ND	ND	ND																						
COBALT	ug/L	--	ND	ND	ND																						
COPPER	ug/L	1000 (S) / 1300 (A)	NA	ND	ND	ND																					
IRON	ug/L	300 (S)	1140	1200	1140	1140	1260	1160	1040	1270	1340	1240	1110	1010	1820	1880	1940	76	ND	ND	160	ND	ND	282			
LEAD	ug/L	15 (AL)	ND	ND	ND																						
MAGNESIUM	mg/L	--	25.5	25.4	24	23.9	24.7	25.1	27.1	25.6	21.3	26.5	23.1	23.5	26.2	26.8	26.5	33.2	37.6	35.2	34.4	24.1	25.9	25.7			
MANGANESE	ug/L	50 (S)	207	201	199	190	221	185	177	216	191	220	195	197	158	164	160	192	185	173	174	137	150	143			
NICKEL	ug/L	--	ND	ND	ND																						
SILVER	ug/L	100 (S)	ND	ND	ND																						
TIN	ug/L	--	ND	ND	ND																						
VANADIUM	mg/L	--	ND	ND	ND																						
ZINC	ug/L	5000 (S)	ND	ND	ND																						
NITRATE	mg/L	10	0.05	ND	ND	ND																					
NITRITE	mg/L	1	ND	ND	ND																						
CHLORIDE	mg/L	250 (S)	12	23	20	24	21	19	19	19.5	19	18.5	22.2	17	39.5	68	41.1	31.2	29.4	51	54	33	60.9	60			
C.O.D.	mg/L	--	ND	8	9	ND	30.2	ND	ND	ND	ND	ND	48.7														
NITROGEN, AMMONIA	mg/L	--	0.15	0.12	0.06	0.13	0.07	0.15	0.14	ND	0.1	0.2	ND	0.5	ND	ND	ND	ND									
CYANIDE	mg/L	0.2	ND	ND	0.06	ND	ND																				
SELENIUM	ug/L	50																							ND		
SULFIDE	mg/L	--	ND	1.9	ND	0.17	ND	ND																			
VOLATILE ORGANICS VOC'S																											
Method 8260	ug/L	Varies	ND	ND	ND	ND																					
Method 8081	ug/L	Varies	ND	ND	ND	ND																					
HERBICIDES																											
Method 8151	ug/L	Varies	ND	ND	ND	ND																					
FIELD PARAMETERS																											
STATIC WATER LEVEL	* from reference point																	19.64	19.3	20.33	16.90	20.79	20.45	21.3			
Temperature	°C		12.8	12.2	12.8	12.3	12.8	12.2	13	NA	13.7	12.8	13	12.3	13.9	13.2	14.6	14.5	15	12.5	13.0	14.2	12.8	12.8			
pH	S.U.	6.5-8.5 (S)	7.2	7.37	7.37	7.56	6.9	7.56	7.47	NA	7.5	7.48	7.76	7.75	7.56	7.51	7.53	7.36	7.31	7.36	7.11	7.55	7.36	7.44			
Specific Conductance	umhos/cm	--	530	572	586	602	569	583	433	NA	488	470	474	451	164	638	710	745	807	831	847	656	738	728			

(S) = Secondary Maximum Contaminant Level

(A) = Action Level

(O) = Ohio EPA Primary Maximum Contaminant Level

D = DETECTED

ND = NOT DETECTED

NA = NOT ANALYZED

NM = NOT MEASURED