EPA Region 5 Records Ctr.
312155

CITY OF KALAMAZOO
SWS_1994.DBF

SUMMER WELL SAMPLING RESULTS

(Results in mg/L, Cond. IN uMOS)

IDENT	DATE	ALKALINITY	AMMONIA	CHLORIDE	CONDCTIVTY	FLOURIDE	HARDNESS	NITRATES	D_OXYGEN	PH	O- PHOS	SILICATE	SULFATE	TEMP (C)	COMMENT
S11-1	08/19/1994	426	0.030	22.97	0.572	0.136	344	0.01	1.75	7.16	0.03	4.41	42.35	10.5	
S11-4	06/01/1994	259	0.043	41.76	0.600	0.195	292	0.01	1.55	7.26	0.03	6.67	30.19	10.7	
S11-5	06/01/1994	255	0.038	37.23	0.590	0.197	275	0.01	1.45	6.50	0.04	6.88	26.27	10.8	
S11-5	08/19/1994	262	0.031	42.64	0.635	0.182	310	0.00	1.20	7.75	0.03	5.24	26.38	10.8	NO NITRATES DETECTED.
S11-6	06/01/1994	277	0.040	46.03	0.590	0.168	309	0.00	0.80	7.03	0.03	6.38	47.65	10.8	NO NITRATES DETECTED
S11-6	08/19/1994	274	0.034	33.73	0.963	0.158	344	0.00	1.45	7.69	0.03	5.03	38.20	10.8	NO NITRATES DETECTED.
S14	04/13/1994	296	0.102	52.70	0.162	0.126	375	0.78	3.75	7.06	0.04	0.04	50.75	11.2	
S14-2	08/17/1994	272	0.065	58.97	0.235	0.127	344	0.16	3.85	7.36	0.02	5.20	25.53	13.2	
S14-4	08/17/1994	256	0.212	53.97	0.677	0.127	327	0.14	3.55	7.08	0.02	4.76	26.75	13.5	
S14-5	08/17/1994	280	0.036	45.54	0.722	0.129	396	0.15	2.15	6.92	0.02	5.08	46.22	11.4	
S14-RAW	08/19/1994	252	0.017	56.34	0.621	0.945	327	0.46	3.50	7.26	0.05	4.66	32.54	13.3	
S15	04/13/1994	258	0.074	47.22	0.268	0.171	627	0.00	2.55	7.30	0.04	6.70	26.50	10.8	NO NITRATES DETECTED.
Sta 2 → S2	04/12/1994	322	0.052	132.46	0.201	0.135	430	0.01	3.20	7.19	0.04	4.69	61.50	13.6	
S20	04/12/1994	330	0.229	56.47	0.485	0.142	430	0.00	2.85	6.93	0.05	8.08	60.29	12.4	NO NITRATES DETECTED.
S24-B4	08/01/1994	234	0.322	22.98	0.488	0.162	258	0.01	1.95	7.41	0.06	6.89	8.84	11.3	
S24-C10	07/29/1994	244	0.283	1.32	0.316	0.125	258	0.01	1.95	7.77	0.03	6.08	6.33	11.0	
S24-C12	07/29/1994	192	0.122	0.89	0.353	0.138	241	0.01	2.00	7.56	0.04	6.30	11.31	10.9	
S24-RAW	08/01/1994	196	0.263	1.18	0.288	0.133	292	0.01	1.55	7.51	0.08	6.44	11.49	11.5	
S3-1	07/22/1994	274	0.064	9.98	0.793	0.152	430	6.99	2.62	0.99	0.04	5.98	18.41	12.2	
S3-2	07/22/1994	284	0.096	9.02	0.691	0.146	344	0.04	1.95	6.94	0.03	6.27	18.68	12.3	
S3-3	07/22/1994	302	0.102	12.37	0.767	0.129	396	0.10	2.85	6.78	0.05	6.38	22.58	12.0	
S3-4	07/26/1994	300	0.025	16.17	0.870	0.116	378	0.25	3.80	7.18	0.06	6.43	18.47	11.8	
S3-5	07/26/1994	284	0.074	5.34	0.701	0.126	361	0.05	1.65	7.28	0.07	6.38	28.50	11.5	
S3-RAW	07/26/1994	294	0.069	10.16	0.792	0.138	413	0.08	1.85	7.24	0.08	6.21	19.15	11.9	
S5-RAW1	08/08/1994	326	0.037	70.87	0.668	0.898	413	0.95	3.00	7.03	0.09	5.93	29.82	13.5	
S5-RAW2	08/08/1994	334	0.020	79.83	0.914	0.787	447	0.17	3.35	7.03	0.05	6.30	30.30	13.8	
S9-RAW	08/08/1994	224	0.099	50.99	0.563	0.427	396	0.01	1.55	7.08	0.02	5.65	12.67	13.7	
TW93-HD	05/19/1994	266	0.136	11.66	0.491	0.232	327	0.00	0.55	7.31	0.01	7.70	24.57	16.0	NO NITRATES DETECTED
TW93-HS	05/19/1994	400	0.720	102.50	1.004	1.990	378	0.32	0.85	6.88	0.00	5.82	28.40	15.0	NO PHOSPHATES DETECTED
TW93-ID	05/19/1994	240	0.090	9.90	0.502	0.175	292	0.00	0.70	8.44	0.00	8.00	23.11	13.0	NO PHOSPHATE OR NITRATES DETECTED.
TW93-IS	05/19/1994	426	0.032	81.95	1.031	0.162	396	0.25	4.55	6.79	0.01	9.67	28.15	8.0	
TW93-J	05/19/1994	258	0.140	6.69	0.520	0.239	275	0.00	1.20	7.30	0.01	8.45	28.65	13.0	NO NITRATES DETECTED. MOSE CHURCH.
TW93-KD	05/19/1994	266	0.147	16.79	0.510	0.282	292	1.00	0.55	7.60	0.01	8.40	20.02	15.0	NO NITRATES DETECTED. PINE GROVE.
TW93-KS	05/19/1994	388	0.207	17.55	0.792	0.072	464	10.29	5.45	7.18	0.02	7.79	13.44	13.0	BAILER COVERED IN TEFLON SE FROM PIPE JOINTS OF WELL. IN NH3/NO3 SAMPLE.
TW93-LD	05/19/1994	224	0.086	13.78	0.450	0.141	241	0.00	0.75	7.67	0.01	7.15	18.70	12.0	NO NITRATES DETECTED.
TW93-LS	05/19/1994	138	0.061	60.79	0.505	0.057	172	2.03	5.25	9.15	0.02	1.08	10.01	15.0	

CITY OF KALAMAZOO TRACE ORGANICS LABORATORY REPORT
SUMMER WELL STUDY

SUMMER WELL SAMPLES 1994

Sta 3 wells

Sample Location:			2	3-1	3-2	3-3	3-4	3-5	3-RAW	5-RAW1	5-RAW2	9-RAW
Sample Date:			4/12/94	7/22/94	7/22/94	7/22/94	7/26/94	7/26/94	7/26/94	8/8/94	8/8/94	8/8/94
Sampled by			PM	RB	RB	RB	RB	RB	RB	RB	RB	RB
Analysis Date:			4/13/95	7/22/94	7/22/94	7/22/94	8/1/94	8/1/94	8/1/94	8/10/94	8/10/94	8/10/94
Analyzed by:			KL	KL	KL	KL	KL	KL	KL	KL	KL	KL
	MDL	MCL										
Dichlorodifluoromethane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Ether												
1,1-Dichloroethene	0.3	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone												
Iodomethane												
Carbon Disulfide												
Allyl Chloride												
Methylene Chloride	0.4	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile												
trans-1,2-Dichloroethene	0.3	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-t-Butyl Ether												
1,1-Dichloroethane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	1.0		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.2	70	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone												
Propionitrile												
Methyl Acrylate												
Bromochloromethane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methacrylonitrile												
Tetrahydrofuran												
Chloroform	0.2	TTHM*	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND
1,1,1-Trichloroethane	0.3	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl Chloride												
Carbon Tetrachloride	0.1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroprocene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.2	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.3	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromoethane	0.1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.4	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Methacrylate												
Bromodichloromethane	0.3	TTHM*	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND
2-Nitropropane												
Chloroacetonitrile												
cis-1,3-Dichloropropene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl 2-Pentanone												
Ethyl Methacrylate												
Dichloroacetone												
Toluene	0.2	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.3	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.4	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Butyl Ketone												
Dibromochloromethane	0.3	TTHM*	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND
1,2-Dibromoethene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.3	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.1	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	0.3	XYLENES**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.1	XYLENES**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.2	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.2	TTHM*	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND
Isopropyl Benzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,4-Dichloro-2-Butene												
n-Propyl Benzene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloro Toluene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro Toluene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl Benzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloroethane												
sec-Butyl Benzene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyl Toluene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.2	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl Benzene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.2	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane												
1,2-Dibromo-3-Chloro Propane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene												
1,2,4-Trichlorobenzene	0.1	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloro Benzene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

*TTHM = Regulated as Total Trihalomethanes with the total not to exceed 100 ug/L.
**XYLENES = Regulated as Total Xylenes with the total not to exceed 10,000 ug/L.

MDL = Method Detection Limit
ND = Not Detected at MDL
Units are ppb (ug/L)

CITY OF KALAMAZOO – DEPARTMENT OF PUBLIC UTILITIES TRACE METALS LABORATORY

REPORT OF ANALYTICAL RESULTS

Summer Well Samples – 1994

Sample ID	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ni ug/L	Zn ug/L	Ag ug/L	As ug/L	Se ug/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Fe ug/L	Mn ug/L	Co ug/L
STATION 2																
(4/12/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5	<5	113	37	51	3.2	1050	176	<30
STATION 3																
RAW (7/26/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	31	33	1.6	146	64	<30
WELL 1 (7/26/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	48	29	30	1.8	<50	<10	<30
WELL 2 (7/26/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	28	30	1.6	<50	75	<30
WELL 3 (7/26/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	30	40	1.8	<50	29	<30
WELL 4 (7/26/94)	<0.2	<30	<30	<2.0	<90	105	<50	<5.0	<5.0	48	31	45	2.0	<50	<10	<30
WELL 5 (7/26/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	31	17	1.2	<50	<10	<30
STATION 5																
RAW 1 (8/8/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	32	37	1.9	188	237	<30
RAW 2 (8/8/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	48	34	42	2.1	175	126	<30
STATION 9																
RAW (8/8/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	24	25	1.7	49	116	<30
STATION 11																
WELL 1 (8/19/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	87	33	12	1.4	<50	181	<30
WELL 5 (8/19/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	64	27	31	1.4	<50	45	<30
WELL 6 (8/19/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	76	31	23	1.4	<50	65	<30
STATION 14																
(4/13/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	101	30	25	2.1	392	265	<30
RAW (8/19/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	88	27	25	1.8	96	66	<30
WELL 2 (8/17/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	92	29	27	1.6	<50	74	<30
WELL 4 (8/17/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	83	26	24	1.6	<50	107	<30
WELL 5 (8/17/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	97	30	20	1.3	<50	96	<30
STATION 15																
(4/13/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	91	28	8.0	1.1	1340	152	<30
STATION 20																
(4/12/94)	<0.2	<30	<30	<2.0	<90	<10	<50	8.1	<5.0	108	35	26	2.2	2320	58	<30
STATION 22 – monitoring well																
(9/27/94) filtered	<0.2	<30	<30	<2.0	<90	63.3	<50	<5.0	<5.0	60	25	6.7	2.7	<50	328	<30
(9/27/94) unfiltered	0.5	<30	<30	27.7	<90	510	<50	<5.0	<5.0	290	68	6.3	3.1	5740	1330	<30
STATION 24																
RAW (8/1/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	19	7.0	0.9	<50	<10	<30
WELL B4 (8/1/94)	<0.2	<30	<30	<2.0	<90	<10	<50	7.0	<5.0	47	23	12	1.1	<50	<10	<30
WELL C10 (7/22/94)	<0.2	<30	<30	<2.0	<90	<10	<50	5.0	<5.0	47	17	6.4	0.7	248	<10	<30
WELL C12 (7/29/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	20	4.5	0.9	<50	<10	<30

RUNNING STATIONS

Sample Location:			STATION 2	STATION 3	STATION 4
Sample Date:			8/12/1997	8/4/1997	8/11/1997
Sampled by:			GT	GT	RD
Analysis Date:			8/13/1997	8/8/1997	8/11/1997
Analyzed by:			KL	KL	KL
	MDL	MCL			
WARNING NOTICES:					
Dichlorodifluoromethane	0.3		ND	ND	ND
Chloromethane	0.6		ND	ND	ND
Vinyl Chloride	0.2	2	ND	ND	ND
Bromomethane	0.4		ND	ND	ND
Chloroethane	0.4		ND	ND	ND
Trichlorofluoromethane	0.2		ND	ND	ND
Diethyl Ether	0.5		ND	ND	ND
1,1-Dichloroethene	0.3	7	ND	ND	ND
Acetone	0.8		ND	ND	ND
Iodomethane	0.6		ND	ND	ND
Carbon Disulfide	1.1		ND	ND	ND
Allyl Chloride	0.3		ND	ND	ND
Methylene Chloride	0.4	5	ND	ND	ND
Acrylonitrile	1.0		ND	ND	ND
t-1,2-Dichloroethene	0.3	100	ND	ND	ND
Methyl -t-Butyl Ether	**0.4**		**0.7**	**ND**	**ND**
1,1-Dichloroethane	0.2		ND	ND	ND
2,2-Dichloropropane	1.0		ND	ND	ND
c-1,2-Dichloroethene	0.2	70	ND	ND	ND
Methyl Ethyl Ketone	0.8		ND	ND	ND
Propionitrile	0.3		ND	ND	ND
Methyl Acrylate	0.3		ND	ND	ND
Bromochloromethane	0.3		ND	ND	ND
Methacrylonitrile	0.3		ND	ND	ND
Tetrahydrofuran	0.5		ND	ND	ND
Chloroform	**0.2**	**TTHM***	**ND**	**ND**	**ND**
1,1,1-Trichloroethane	0.3	200	ND	ND	ND
n-Butyl Chloride	0.3		ND	ND	ND
Carbon Tetrachloride	0.1	5	ND	ND	ND
1,1-Dichloropropene	0.2		ND	ND	ND
Benzene	0.2	5	ND	ND	ND
1,2-Dichloroethane	0.3	5	ND	ND	ND
Trichloroethene	0.1	5	ND	ND	ND
1,2-Dichloropropane	0.4	5	ND	ND	ND
Dibromomethane	0.3		ND	ND	ND
Methyl Methacrylate	0.2		ND	ND	ND
Bromodichloromethane	**0.3**	**TTHM***	**ND**	**ND**	**ND**
2-Nitropropane	0.3		ND	ND	ND
Chloroacetonitrile	0.4		ND	ND	ND
c-1,3-Dichloropropene	0.2		ND	ND	ND
4-Methyl 2-Pentanone	0.3		ND	ND	ND
Ethyl Methacrylate	0.3		ND	ND	ND
Dichloroacetone	0.3		ND	ND	ND
Toluene	0.2	1000	ND	ND	ND
t-1,3-Dichloropropene	0.2		ND	ND	ND
1,1,2-Trichloroethane	0.3	5	ND	ND	ND
Tetrachloroethene	0.4	5	ND	ND	ND
1,3-Dichloropropane	0.2		ND	ND	ND
Methyl Butyl Ketone	0.4		ND	ND	ND
Dibromochloromethane	**0.3**	**TTHM***	**ND**	**ND**	**ND**

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STATION 2	STATION 3	STATION 4
Sample Date:			8/12/1997	8/4/1997	8/11/1997
Sampled by:			GT	GT	RD
Analysis Date:			8/13/1997	8/8/1997	8/11/1997
Analyzed by:			KL	KL	KL
	MDL	MCL			
1,2-Dibromoethane	0.1		ND	ND	ND
Chlorobenzene	0.3	100	ND	ND	ND
1,1,1,2-Tetrachloroethene	0.3		ND	ND	ND
Ethylbenzene	0.1	700	ND	ND	ND
m&p-Xylene	0.3	XYLENES**	ND	ND	ND
o-Xylene	0.1	XYLENES**	ND	ND	ND
Styrene	0.2	100	ND	ND	ND
Bromoform	0.2	TTHM*	ND	ND	ND
Isopropyl Benzene	0.2		ND	ND	ND
1,1,2,2-Tetrachlorethane	0.2		ND	ND	ND
1,2,3-Trichloropropane	0.2		ND	ND	ND
Bromobenzene	0.2		ND	ND	ND
T-1,4-Dichloro-2-Butene	0.7		ND	ND	ND
n-Propyl Benzene	0.1		ND	ND	ND
2-Chloro Toluene	0.2		ND	ND	ND
1,3,5-Trimethyl Benzene	0.2		ND	ND	ND
4-Chloro Toluene	0.2		ND	ND	ND
t-Butyl Benzene	0.2		ND	ND	ND
1,2,4-Trimethyl Benzene	0.3		ND	ND	ND
Pentachloroethane	1.0		ND	ND	ND
sec-Butyl Benzene	0.1		ND	ND	ND
p-Isopropyl Toluene	0.1		ND	ND	ND
1,4-Dichlorobenzene	0.2	75	ND	ND	ND
1,3-Dichlorobenzene	0.2		ND	ND	ND
n-Butyl Benzene	0.3		ND	ND	ND
1,2-Dichlorobenzene	0.2	600	ND	ND	ND
Hexachloroethane	0.3		ND	ND	ND
1,2-Dibromo-3-Chloro Propane	0.3		ND	ND	ND
Nitrobenzene	1.0		ND	ND	ND
1,2,4-Trichlorobenzene	0.1	70	ND	ND	ND
Hexachlorobutadiene	0.3		ND	ND	ND
Naphthalene	0.3		ND	ND	ND
1,2,3-Trichloro Benzene	0.1		ND	ND	ND
WARNING NOT CES:					

**TTHM = Regulated as Total Trihalomethanes with the total not to exceed 100 ug/L.*
***XYLENES= Regulated as Total Xylenes with the total not to exceed 10,000 ug/L.*

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

PARTIAL CHEMICAL REPORT
CITY OF KALAMAZOO LABORATORY
PAGE:

IDENT	DATE	RDATE	FLUORIDE	NITRATE	NITRITE	ANTIMONY	BERYLLIUM	NICKEL	THALLIUM	COMMENT
1	160	06/09/1997	0.794	0.44	<0.02	<0.1	<0.005	<0.02	<0.05	
11	160	06/09/1997	1.210	0.22	<0.02	<0.1	<0.005	<0.02	<0.05	
12	160	06/09/1997	1.010	<0.02	<0.02					
14	160	06/09/1997	1.140	1.31	<0.02	<0.1	<0.005	<0.02	<0.05	
17	161	06/10/1997	0.163	0.01	<0.02					
18	160	06/09/1997	0.221	<0.02	<0.02					
Sta 2 → 2	161	06/10/1997	1.350	0.01	<0.02					
22	160	06/09/1997	1.060	0.42	<0.02					
24	160	06/09/1997	1.010	<0.02	<0.02					
25	160	06/09/1997	1.060	1.60	<0.02					
3	160	06/09/1997	1.270	0.68	<0.02	<0.1	<0.005	<0.02	<0.05	
39	160	06/09/1997	1.110	1.47	<0.02					
4	160	06/09/1997	1.020	0.01	<0.02	<0.1	<0.005	<0.02	<0.05	
5	160	06/09/1997	1.030	0.66	<0.02	<0.1	<0.005	<0.02	<0.05	
8	161	06/10/1997	1.060	0.01	<0.02					
9	160	06/09/1997	1.210	<0.02	<0.02					

ALL RESULTS ARE IN mg/L

Summer Well Sampling Data - 1996

Location	Sample Date	Batch	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Pb (ug/L)	Ni (ug/L)	Zn (ug/L)	Ag (ug/L)	Hg (ug/L)	As (ug/L)	Se (ug/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Fe (ug/L)	Mn (ug/L)	Co (ug/L)
CAND	06/06/96	AIU	< 10	< 40	74	< 1.0	< 40	58	< 10	< 0.5	< 2.0	< 5.0	81	26	1.2	21	680	160	< 50
FS1	06/04/96	All	< 10	< 40	< 40	< 1.0	< 40	11	< 10	< 0.5	< 2.0	< 5.0	96	33	2.3	51.2	< 50	< 5	< 50
FS3	06/05/96	All	< 10	< 40	121	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	83	26	1.5	15.4	< 50	< 5	< 50
FS6	06/04/96	All	< 10	< 40	196	<1.0	< 40	< 10	< 10	< 0.5	3.1	< 5.0	78	30	1.2	15.2	296	18	< 50
KVCC	06/04/96	All	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	54	20	< 1.0	5.8	184	< 5	< 50
PAR	06/04/96	All	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	<2.0	< 5.0	77	25	1	6.6	< 50	< 5	< 50
S01 Raw	05/17/96	AIA	< 10	< 40	< 40	< 1.0	< 40	34	< 10	< 0.5	< 2.0	< 5.0	99	32	2	45	474	148	< 50
S01 W01	05/17/96	AIA	< 10	< 40	< 40	< 1.0	< 40	27	< 10	< 0.5	< 2.0	< 5.0	101	35	2.1	52	551	171	< 50
S01 W02	05/17/96	AIA	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	104	34	2.5	57	1100	185	< 50
S01 W03	05/17/96	AIA	< 10	< 40	< 40	< 1.0	< 40	10	< 10	< 0.5	< 2.0	< 5.0	99	29	2.6	36	< 30	100	< 50
S01 W05	05/17/96	AIA	< 10	< 40	< 40	< 1.0	< 40	15	< 10	< 0.5	< 2.0	< 5.0	85	29	1.6	31	426	135	< 50
Sta 2 Well 1 → S02 W01	06/05/96	All	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	78	33	3.7	73.3	< 50	< 5	< 50
S03 W07	05/20/96	AIA	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	101	30	2.1	65	75	36	< 50
S03 W08	05/20/96	AIA	< 10	< 40	< 40	1.3	< 40	15	< 10	< 0.5	< 2.0	< 5.0	94	29	1.6	48	105	70	< 50
S04 W03	05/20/96	AIA	< 10	< 40	< 40	< 1.0	< 40	41	< 10	< 0.5	6.5	< 5.0	73	27	1	13.4	1200	76	< 50
S04 W07	06/04/96	All	< 10	< 40	< 40	18.7	< 40	286	< 10	< 0.5	2.7	< 5.0	93	34	1.6	12.5	1670	139	< 50
S04 W09	06/04/96	All	< 10	< 40	< 40	3.4	< 40	253	< 10	< 0.5	2.7	< 5.0	67	26	1.2	13.2	1270	190	< 50
S04 W10	05/28/96	AIA	< 10	< 40	104	3.3	< 40	287	< 10	< 0.5	4.6	< 5.0	73	27	< 1.0	19	910	81	< 50
S05 W03	05/28/96	AIA	< 10	< 40	48	< 1.0	< 40	14	< 10	< 0.5	< 2.0	< 5.0	122	34	2.2	28.2	617	382	< 50
S05 W04	05/28/96	AIA	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	114	31	1.5	26	681	263	< 50
S07 W02	05/20/96	AIA	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	3.4	< 5.0	98	32	1.7	30	1170	133	< 50
S08 W01A	05/23/96	AIA	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	9	< 5.0	87	27	< 1.0	10.5	1470	168	< 50
S08 W02	05/23/96	AIA	< 10	< 40	< 40	5.3	< 40	14	< 10	< 0.5	5.1	< 5.0	79	25	< 1.0	11.6	1000	192	< 50
S08 W03	05/24/96	AIA	< 10	< 40	< 40	< 1.0	< 40	15	< 10	< 0.5	4.1	< 5.0	82	26	< 1.0	15	1060	210	< 50
S08 W04	05/24/96	AIA	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	85	27	< 1.0	21	1160	246	< 50
S08 W05	05/24/96	AIA	< 10	< 40	< 40	1.5	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	94	31	< 1.0	42	556	296	< 50
S08 W06	05/24/96	AIA	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	80	27	< 1.0	18	774	271	< 50
S09 W07	06/05/96	All	< 10	< 40	< 40	3.2	< 40	11	< 10	< 0.5	25.9	< 5.0	64	23	1.2	22.5	1130	207	< 50
S09 W08	06/12/96	All	< 10	< 40	< 40	4.5	< 40	12	< 10	< 0.5	16.8	< 5.0	67	24	1.5	23.3	2020	199	< 50
S09 W09	05/22/96	AIA	< 10	< 40	56	80	441	301	< 10	< 0.5	10.6	< 5.0	64	23	1.2	22	759	169	< 50
S09 W09	07/11/96	AJS	---	---	< 40	14	---	---	---	---	---	---	---	---	---	---	---	---	---
S09 W12	05/22/96	AIA	< 10	< 40	97	54	181	557	< 10	< 0.5	2.6	< 5.0	64	21	< 1.0	54	343	176	< 50
S09 W12	07/11/96	AJS	---	---	< 40	9.9	---	---	---	---	---	---	---	---	---	---	---	---	---
S14 W03	05/24/96	AIU	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	76	26	1.7	30.8	< 30	39	< 50
S17 W01	05/29/96	AIU	< 10	< 40	61	< 1.0	< 40	< 10	< 10	< 0.5	3.5	< 5.0	76	22	1.1	8.5	620	168	< 50
S18 W01	06/05/96	All	< 10	< 40	< 40	9	< 40	< 10	< 10	< 0.5	2.5	< 5.0	84	25	1.1	5.1	312	249	< 50
S18 W02	06/05/96	All	< 10	< 40	< 40	1.1	< 40	< 10	< 10	< 0.5	2.5	< 5.0	66	19	< 1.0	12.9	1310	52	< 50
S22 W04	05/20/96	AIU	< 10	< 40	< 40	< 1.0	< 40	13	< 10	< 0.5	< 2.0	< 5.0	70	26	< 1.0	3.6	< 30	243	< 50
S24 W08	06/03/96	All	< 10	< 40	< 40	18.7	< 40	189	< 10	< 0.5	< 2.0	< 5.0	62	21	< 1.0	6	1470	44	< 50
S24 W09	06/03/96	All	< 10	< 40	< 40	1.3	< 40	12	< 10	< 0.5	< 2.0	< 5.0	63	21	< 1.0	6.5	1580	52	< 50
S24 W10	06/03/96	All	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	57	19	< 1.0	6.3	1190	42	< 50
S24 W12	06/03/96	All	< 10	< 40	< 40	1.2	< 40	12	< 10	< 0.5	< 2.0	< 5.0	56	21	< 1.0	4.4	762	54	< 50
S24 W16	06/03/96	All	< 10	< 40	< 40	< 1.0	< 40	20	< 10	< 0.5	3.4	< 5.0	54	18	< 1.0	3.2	1670	44	< 50
S25 W02	06/12/96	All	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	67	24	< 1.0	6.2	156	19	< 50
S25 W07	05/29/96	AIU	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	75	24	< 1.0	6.5	368	48	< 50
S25 W09	05/29/96	AIU	< 10	< 40	852	< 1.0	< 40	15	< 10	< 0.5	< 2.0	< 5.0	82	25	< 1.0	6.4	60	< 5	< 50
S25 W09	05/30/96	All	< 10	< 40	< 40	< 1.0	< 40	12	< 10	< 0.5	< 2.0	< 5.0	78	25	< 1.0	3.5	< 50	9	< 50
S39 W01	05/03/96	All	< 10	< 40	< 40	< 1.0	< 40	< 10	< 10	< 0.5	< 2.0	< 5.0	84	22	< 1.0	15.6	289	107	< 50

CITY OF KALAMAZOO
SWS_1996.DBF

SUMMER WELL SAMPLING RESULTS

(Results in mg/L, Cond. IN uMOS)

IDENT	DATE	ALKA-LINITY	AMMONIA	CHLORIDE	CONDVTY	FLUORIDE	HDNESS	NITRATE	D_OXY	PH	O- PHOS	SILICATE	SULFATE	TEMP(C)	TDS	COMMENT
S1-RAW	05/07/1996	353	0.060	85.49	0.900	0.129	361	0.38	0.60	7.22	ND	6.66	60.40	13.1		O-PHOS BELOW DETECT
S1-1	05/07/1996	356	0.012	109.35	0.972	0.123	344	0.32	0.60	7.29	ND	6.53	61.29	14.6		ORTHO-P BELOW DETECT
S1-2	05/07/1996	364	0.926	108.31	0.925	0.132	413	ND	0.85	7.22	ND	6.78	61.16	13.9		BELOW DETECT NO3 & O-PHOS
S1-3	05/07/1996	337	0.022	68.89	0.851	0.129	344	0.51	0.85	7.25	0.09	6.83	61.65	13.5		
S1-5	05/07/1996	317	0.012	55.61	0.728	0.127	344	0.49	1.05	7.34	0.05	6.55	52.94	12.0		
Sta2 → Well1 S2-1	06/05/1996	316	0.085	13.83	1.142	0.136	423	ND	2.15	7.74	0.08	6.92	44.21	13.9		NON-DETECT FOR NO3
S3-7	05/30/1996	306	0.021	117.65	1.010	0.110	378	1.44	1.90	7.08	0.06	5.97	53.80	12.5		
S3-8	05/30/1996	308	0.039	ND	0.304	0.117	327	1.60	2.10	7.22	0.05	6.42	53.68	12.7		NON-DETECT FOR Cl
S4-3	05/28/1996	268	0.112	20.13	0.580	0.180	310	ND	0.35	7.25	0.05	7.27	30.16	10.9		NON-DETECT NO3
S4-7	05/28/1996	248	0.056	27.94	0.730	0.150	361	"	0.25	7.01	0.04	7.08	47.99	10.8		NON-DETECT NO3
S4-9	05/28/1996	230	0.091	4.79	0.554	0.201	258	"	0.60	7.22	0.30	7.34	19.40	11.0		NON-DETECT NO3
S4-10	05/28/1996	236	0.105	26.97	0.582	0.212	275	"	1.25	7.19	0.05	7.22	26.52	12.0		NON-DETECT NO3
S5-3	05/28/1996	300	0.121	54.78	0.902	0.154	430	"	0.30	6.99	0.05	6.52	97.57	12.4		NON-DETECT NO3
S5-4	05/28/1996	292	0.081	55.82	0.850	0.134	361	"	1.60	7.03	0.05	6.71	83.14	11.5		NON-DETECT NO3
S7-2	05/30/1996	300	0.092	57.06	0.793	0.145	361	"	8.35	7.39	0.05	6.86	56.78	17.8		NON-DETECT NO3
S8-1A	05/23/1996	266	0.279	22.62	0.626	0.148	327	"	0.55	7.31	0.08	8.06	34.24	12.3		NON-DETECT NO3
S8-2	05/23/1996	234	0.194	31.95	0.598	0.151	275	"	1.05	7.41	0.07	7.62	27.10	11.7		NON-DETECT NO3
S8-3	05/23/1996	252	0.194	43.78	0.632	0.141	310	"	0.20	7.23	0.04	7.46	27.89	11.9		NON-DETECT NO3
S8-4	05/24/1996	273	0.213	46.27	0.176	0.147	327	"	0.35	7.32	0.04	7.46	34.64	12.1		NON-DETECT NO3
S8-5	05/23/1996	284	0.108	93.16	0.768	0.314	344	"	0.30	7.29	0.04	7.25	44.18	12.0		NON-DETECT NO3
S8-6	05/23/1996	240	0.183	42.33	0.588	0.140	327	"	0.30	7.35	0.04	7.41	35.88	11.7		NON-DETECT NO3
S9-7	06/05/1996	220	0.120	19.85	0.497	0.139	292	0.77	0.40	7.81	0.05	5.99	22.62	12.4		
S9-8	06/05/1996	223	0.219	10.16	0.502	0.144	258	0.65	0.65	7.37	0.04	5.92	30.23	13.3		
S9-9	05/22/1996	246	0.114	40.25	0.420	0.142	241	0.19	0.90	7.38	0.07	6.39	18.38	17.0		
S9-12	06/05/1996	203	0.040	38.80	0.565	0.141	241	ND	0.10	7.42	0.07	5.04	22.26	13.1		NON-DETECT NO3
S14-3	05/24/1996	238	0.088	76.77	0.714	0.122	292	1.22	2.70	7.25	0.03	5.43	25.87	11.9		
S17-1	05/29/1996	252	0.121	15.98	0.173	0.202	275	ND	0.45	7.27	0.07	7.75	18.32	13.6		NON-DETECT NO3
S18-1	06/05/1996	292	0.046	1.14	0.617	0.150	327	ND	0.35	7.44	0.61	7.02	23.68	12.3		NON-DETECT NO3
S18-2	06/05/1996	242	0.218	1.56	0.148	0.247	224	ND	0.30	7.76	0.06	7.60	4.53	11.6		NON-DETECT NO3
S22-4	05/30/1996	271	0.025	7.05	0.508	0.159	275	1.34	0.70	7.39	0.04	6.43	53.85	11.9		
S24-8	06/03/1996	206	0.321	12.84	0.486	0.118	241	ND	0.40	7.39	0.07	6.70	26.91	11.3		NON-DETECT NO3
S24-9	06/03/1996	200	0.308	6.57	0.476	0.119	241	ND	0.25	7.57	0.07	6.62	23.40	12.1		
S24-10	06/03/1996	204	0.358	4.20	0.435	0.130	241	ND	0.50	7.59	0.06	6.85	14.85	11.2		NON-DETECT FOR NO3
S24-12	06/03/1996	194	0.158	1.49	0.426	0.149	224	ND	0.65	7.59	0.06	6.87	21.86	11.1		NON-DETECT FOR NO3
S24-16	06/03/1996	142	0.304	4.82	0.418	0.114	224	ND	0.20	7.62	0.05	6.15	22.40	12.8		NON-DETECT FOR NO3
S25-2	06/12/1996	224	0.032	9.96	0.120	0.121	275	0.36	0.40	6.92	0.04	6.04	32.50	9.8		WELL RUN ONLY 10 MIN BEFORE TI
S25-4	05/30/1996	232	0.043	6.85	0.158	0.114	292	3.71	7.35	7.20	0.05	6.59	38.47	12.7		SULFATE RESULTS FROM U16496R1
S25-7	05/29/1996	230	0.035	10.58	0.569	0.117	258	0.25	0.85	6.98	0.03	6.24	40.76	10.7		
S25-9	05/29/1996	282	0.028	10.17	0.169	0.113	310	6.98	7.45	7.14	0.05	6.59	27.87	14.3		
S39-1	05/31/1996	236	0.339	15.85	0.642	0.140	310	1.48	2.05	7.25	0.06	5.97	8.06	10.6		
FS1	06/04/1996	294	0.019	9.54	0.945	0.950	378	0.27	8.65	7.36	0.16	6.84	49.25	15.7	505	
FS3	06/05/1996	238	0.185	2.88	0.650	0.950	327	1.23	2.15	7.76	0.41	6.38	30.36	15.0	328	
FS6	06/04/1996	52	0.016	2.92	0.650	0.913	292	ND	1.30	7.04	0.15	7.33	32.88	16.6	322	NON-DETECT FOR NO3
CAN	06/06/1996	274	0.070	4.44	0.644	0.640	310	ND	0.90	7.39	0.10	7.57	36.53	14.0	352	NON-DETECT FOR NO3
PKR	06/04/1996	48	0.026	1.48	0.578	0.851	292	1.32	1.95	7.16	0.18	6.68	32.12	13.2	301	
KVC	06/04/1996	202	0.071	1.41	0.438	1.220	241	ND	0.65	7.19	0.10	7.03	15.12	13.3	216	NON-DETECT FOR NO3
AVERAGE		251	0.137	31.21	0.590	0.248	306	1.29	1.47	7.32	0.09	6.76	36.69	12.7	337	
HIGHEST		355	0.926	117.65	1.142	1.220	430	6.98	8.65	7.81	0.61	8.06	97.57	17.8	505	
LOWEST		48	0.012	1.14	0.120	0.110	224	0.19	0.10	6.92	0.03	5.04	4.53	9.8	216	

CITY OF KALAMAZOO TRACE ORGANICS LABORATORY REPORT
SUMMER WELL STUDY 1996

SUMMER WELL SAMPLES 1996
Analyzed by EPA Method 524.2

Sample Location:			**2-1**
Sample Date:			**6/5/1996**
Sampled by:			TC
Analysis Date:			6/7/1996
Analyzed by:			KL
	MDL	*MCL*	
Dichlorodifluoromethane	*0.3*		ND
Chloromethane	*0.6*		ND
Vinyl Chloride	*0.2*	*2*	ND
Bromomethane	*0.4*		ND
Chloroethane	*0.4*		ND
Trichlorofluoromethane	*0.2*		ND
Diethyl Ether	*0.5*		ND
1,1-Dichloroethene	*0.3*	*7*	ND
Acetone	*0.8*		ND
Iodomethane	*0.6*		ND
Carbon Disulfide	*1.1*		ND
Allyl Chloride	*0.3*		ND
Methylene Chloride	*0.4*	*5*	ND
Acrylonitrile	*1.0*		ND
t-1,2-Dichloroethene	*0.3*	*100*	ND
Methyl -t-Butyl Ether	***0.4***		**1.0**
1,1-Dichloroethane	*0.2*		ND
2,2-Dichloropropane	*1.0*		ND
c-1,2-Dichloroethene	***0.2***	***70***	**0.4**
Methyl Ethyl Ketone	*0.8*		ND
Propionitrile	*0.3*		ND
Methyl Acrylate	*0.3*		ND
Bromochloromethane	*0.3*		ND
Methacrylonitrile	*0.3*		ND
Tetrahydrofuran	*0.5*		ND
Chloroform	***0.2***	***TTHM****	**ND**
1,1,1-Trichloroethane	*0.3*	*200*	ND
n-Butyl Chloride	*0.3*		ND
Carbon Tetrachloride	*0.1*	*5*	ND
1,1-Dichloropropene	*0.2*		ND
Benzene	*0.2*	*5*	ND
1,2-Dichloroethane	*0.3*	*5*	ND
Trichloroethene	*0.1*	*5*	ND
1,2-Dichloropropane	*0.4*	*5*	ND
Dibromomethane	*0.3*		ND
Methyl Methacrylate	*0.2*		ND
Bromodichloromethane	***0.3***	***TTHM****	**ND**
2-Nitropropane	*0.3*		ND
Chloroacetonitrile	*0.4*		ND
c-1,3-Dichloropropene	*0.2*		ND
4-Methyl 2-Pentanone	*0.3*		ND
Ethyl Methacrylate	*0.3*		ND
Dichloroacetone	*0.3*		ND
Toluene	*0.2*	*1000*	ND
t-1,3-Dichloropropene	*0.2*		ND
1,1,2-Trichloroethane	*0.3*	*5*	ND
Tetrachloroethene	*0.4*	*5*	ND
1,3-Dichloropropane	*0.2*		ND
Methyl Butyl Ketone	*0.4*		ND

ND = Not Detected at MDL (Method Detection Limit)
Units are ppb (ug/L)
MCL = Maximum Contaminant Level (Set by EPA)

SUMMER WELL SAMPLES 1996

Analyzed by EPA Method 524.2

Sample Location:			**2-1**
Sample Date:			**6/5/1996**
Sampled by:			TC
Analysis Date:			6/7/1996
Analyzed by:			KL
	MDL	*MCL*	
Dibromochloromethane	***0.3***	***TTHM****	**ND**
1,2-Dibromoethane	*0.1*		ND
Chlorobenzene	*0.3*	***100***	ND
1,1,1,2-Tetrachloroethene	*0.3*		ND
Ethylbenzene	*0.1*	***700***	ND
m&p-Xylene	*0.3*	***XYLENES*****	ND
o-Xylene	*0.1*	***XYLENES*****	ND
Styrene	*0.2*	***100***	ND
Bromoform	***0.2***	***TTHM****	**ND**
Isopropyl Benzene	*0.2*		ND
1,1,2,2-Tetrachlorethane	*0.2*		ND
1,2,3-Trichloropropane	*0.2*		ND
Bromobenzene	*0.2*		ND
T-1,4-Dichloro-2-Butene	*0.7*		ND
n-Propyl Benzene	*0.1*		ND
2-Chloro Toluene	*0.2*		ND
1,3,5-Trimethyl Benzene	*0.2*		ND
4-Chloro Toluene	*0.2*		ND
t-Butyl Benzene	*0.2*		ND
1,2,4-Trimethyl Benzene	*0.3*		ND
Pentachloroethane	*1.0*		ND
sec-Butyl Benzene	*0.1*		ND
p-Isopropyl Toluene	*0.1*		ND
1,4-Dichlorobenzene	*0.2*	***75***	ND
1,3-Dichlorobenzene	*0.2*		ND
n-Butyl Benzene	*0.3*		ND
1,2-Dichlorobenzene	*0.2*	***600***	ND
Hexachloroethane	*0.3*		ND
1,2-Dibromo-3-Chloro Propane	*0.3*		ND
Nitrobenzene	*1.0*		ND
1,2,4-Trichlorobenzene	*0.1*	***70***	ND
Hexachlorobutadiene	*0.3*		ND
Naphthalene	*0.3*		ND
1,2,3-Trichloro Benzene	*0.1*		ND

**TTHM = Regulated as Total Trihalomethanes with the total not to exce*
***XYLENES= Regulated as Total Xylenes with the total not to exceed 1*

ND = Not Detected at MDL (Method Detection Limit)
Units are ppb (ug/L)
MCL = Maximum Contaminant Level (Set by EPA)

CITY OF KALAMAZOO TRACE ORGANICS LABORATORY REPORT
SUMMER WELL STUDY

SUMMER WELL SAMPLES 1994

Sta 2

Sample Location:			2	3-1	3-2	3-3	3-4	3-5	3-RAW	5-RAW1	5-RAW2	9-RAW
Sample Date:			4/22/94	7/22/94	7/22/94	7/22/94	7/26/94	7/26/94	7/26/94	8/8/94	8/8/94	8/8/94
Sampled by:			PM	RB	RB	RB	RB	RB	RB	RB	RB	RB
Analysis Date:			4/13/95	7/22/94	7/22/94	7/22/94	8/1/94	8/1/94	8/1/94	8/10/94	8/10/94	8/10/94
Analyzed by:			KL	KL	KL	KL	KL	KL	KL	KL	KL	KL
	MDL	MCL										
Dichlorodifluoromethane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Ether												
1,1-Dichloroethene	0.3	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone												
Iodomethane												
Carbon Disulfide												
Allyl Chloride												
Methylene Chloride	0.4	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile												
1,2-Dichloroethane	0.3	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-t-Butyl Ether												
1,1-Dichloroethene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	1.0		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.2	70	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone												
Propionitrile												
Methyl Acrylate												
Bromochloromethane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methacrylonitrile												
Tetrahydrofuran												
Chloroform	0.2	TTHM*	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND
1,1,1-Trichloroethane	0.3	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl Chloride												
Carbon Tetrachloride	0.1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.2	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.3	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.4	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Methacrylate												
Bromodichloromethane	0.3	TTHM*	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND
2-Nitropropane												
Chloroacetonitrile												
trans-1,3-Dichloropropene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl 2-Pentanone												
Ethyl Methacrylate												
Dichloroacetone												
Toluene	0.2	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.3	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.4	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Butyl Ketone												
Dibromochloromethane	0.3	TTHM*	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND
1,2-Dibromoethane	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.3	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.1	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	0.3	XYLENES**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.1	XYLENES**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.2	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.2	TTHM*	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND
Isopropyl Benzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,4-Dichloro-2-Butene												
n-Propyl Benzene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloro Toluene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro Toluene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl Benzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloroethane												
sec-Butyl Benzene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyl Toluene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.2	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl Benzene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.2	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane												
1,2-Dibromo-3-Chloro Propane	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene												
1,2,4-Trichlorobenzene	0.1	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloro Benzene	0.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

**TTHM = Regulated as Total Trihalomethanes with the total not to exceed 100 ug/L.*
***XYLENES= Regulated as Total Xylenes with the total not to exceed 10,000 ug/L.*

MDL =Method Detection Limit
ND= Not Detected at MDL
Units are ppb (ug/L)

SUM94.XLS

CITY OF KALAMAZOO–DEPARTMENT OF PUBLIC UTILITIES TRACE METALS LABORATORY

REPORT OF ANALYTICAL RESULTS

Summer Well Samples – 1994

Sample ID	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ni ug/L	Zn ug/L	Ag ug/L	As ug/L	Se ug/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Fe ug/L	Mn ug/L	Co ug/L
STATION 2																
(4/12/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5	<5	113	37	51	3.2	1050	176	<30
STATION 3																
RAW (7/26/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	31	33	1.6	146	64	<30
WELL 1 (7/22/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	48	29	30	1.8	<50	<10	<30
WELL 2 (7/22/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	28	30	1.6	<50	75	<30
WELL 3 (7/22/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	30	40	1.8	<50	29	<30
WELL 4 (7/22/94)	<0.2	<30	<30	<2.0	<90	105	<50	<5.0	<5.0	48	31	45	2.0	<50	<10	<30
WELL 5 (7/22/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	31	17	1.2	<50	<10	<30
STATION 5																
RAW 1 (8/8/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	32	37	1.9	188	237	<30
RAW 2 (8/8/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	48	34	42	2.1	175	126	<30
STATION 9																
RAW (8/8/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	24	25	1.7	49	116	<30
STATION 11																
WELL 1 (8/19/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	87	33	12	1.4	<50	181	<30
WELL 5 (8/19/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	64	27	31	1.4	<50	45	<30
WELL 6 (8/19/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	76	31	23	1.4	<50	65	<30
STATION 14																
(4/13/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	101	30	25	2.1	392	265	<30
RAW (8/19/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	88	27	25	1.8	96	66	<30
WELL 2 (8/17/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	92	29	27	1.6	<50	74	<30
WELL 4 (8/17/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	83	26	24	1.6	<50	107	<30
WELL 5 (8/17/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	97	30	20	1.3	<50	96	<30
STATION 15																
(4/13/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	91	28	8.0	1.1	1340	152	<30
STATION 20																
(4/12/94)	<0.2	<30	<30	<2.0	<90	<10	<50	8.1	<5.0	108	35	26	2.2	2320	58	<30
STATION 22 – monitoring well																
(9/27/94) filtered	<0.2	<30	<30	<2.0	<90	63.3	<50	<5.0	<5.0	60	25	6.7	2.7	<50	328	<30
(9/27/94) unfiltered	0.5	<30	<30	27.7	<90	510	<50	<5.0	<5.0	290	68	6.3	3.1	5740	1330	<30
STATION 24																
RAW (8/1/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	19	7.0	0.9	<50	<10	<30
WELL B4 (8/1/94)	<0.2	<30	<30	<2.0	<90	<10	<50	7.0	<5.0	47	23	12	1.1	<50	<10	<30
WELL C10 (7/22/94)	<0.2	<30	<30	<2.0	<90	<10	<50	5.0	<5.0	47	17	6.4	0.7	248	<10	<30
WELL C12 (7/29/94)	<0.2	<30	<30	<2.0	<90	<10	<50	<5.0	<5.0	47	20	4.5	0.9	<50	<10	<30

City of Kalamazoo – Department of Public Utilities
Summer Well Sampling 1993

Batch ID: SWS93-A Analyst(s): MK/SD

#	Well I.D.	Sample Date	Ca	Mg	K	Na	Fe	Mn	Co	Si	Cd	Cr	Cu	Pb	Ni	Zn	Ag	As	Se
Detection Limits			0.06	0.8	1.0	0.08	20	5	10		0.3	40	40	2	40	10	10	5	5
1	C1-RAW	5-19-93	103	32.8	2.20	46.5	537	133	6	6.74	-0.2	-1.4	2.1	1.88	1.3	18.3	1.7	0.66	-1.44
2	C1-2	5-19-93	90.2	28.0	2.16	37.0	236	27	1	6.68	-0.2	-1.6	7.8	1.19	0.2	4.7	1.2	-0.52	-0.48
3	C1-3	5-19-93	112	31.8	2.60	52.6	49	107	-1	6.58	-0.4	-1.5	300	12.91	1.4	197	2.2	-0.12	1.00
4	C1-4	5-19-93	86.3	28.1	1.71	36.8	187	89	1	6.52	-0.4	-1.3	9.9	1.99	0.6	10.4	0.1	0.08	1.09
5	C1-5	6-22-93	109	37.9	2.81	49.2	1470	190	-6	7.03	-0.2	-1.4	4.0	2.40	0.2	13.9	0.1	2.21	0.39
6	C1-6	5-19-93	107	33.6	2.46	34.6	924	120	-3	7.62	-0.1	-0.9	-1.5	1.50	0.2	7.5	-0.3	1.68	-2.69
7	C1-7	5-19-93	99.9	28.7	2.70	37.9	48	108	-1	6.73	-0.4	-0.6	8.5	1.36	-0.3	5.6	0.9	-0.27	1.51
8	C2-1	5-25-93	113	37.5	2.59	54.9	76	84	-2	6.84	-0.3	-1.4	13.3	2.44	0.8	43.6	2.7	-1.05	-0.70
9	C2-2	5-21-93	106	34.9	2.62	55.9	1410	196	-1	6.64	0.0	-2.2	0.8	1.49	0.0	12.3	1.6	0.30	-0.93
10	C2-3	5-25-93	85.5	28.4	1.59	26.7	129	81	-3	5.86	-0.3	-2.7	9.9	2.26	34.8	9.5	1.0	-0.26	-1.34
11	C2-4	5-21-93	98.3	31.7	1.91	36.3	53	89	-4	6.41	0.1	-0.6	1.6	1.53	1.3	9.3	-1.6	-0.73	1.31
12	C2-5	5-21-93	96.6	32.9	1.76	31.6	1110	171	0	6.74	0.1	-0.5	-2.0	1.41	-0.0	5.0	-0.0	2.91	-3.12
13	C2-6	5-25-93	95.9	34.1	1.59	35.2	524	108	-4	6.67	0.3	-0.0	8.6	3.33	0.8	16.5	-1.8	-0.48	-1.53
14	C2-8	5-21-93	75.1	27.2	1.34	14.4	1870	124	-5	7.20	-0.1	-1.1	-1.0	0.81	0.1	5.4	-1.0	2.27	-1.78
15	D2	7-26-93	95.0	32.7	1.75	55.0	59	83	-3	6.57	0.5	-0.3	12.7	1.39	1.5	7.4	-1.7	0.35	0.07
16	D3	7-26-93	109	36.1	2.41	66.9	754	138	-1	6.56	0.0	0.2	27.8	0.77	2.4	41.9	-1.2	0.92	0.68
17	STA 2	4-21-93	111	38.8	2.46	53.3	790	163	-9	7.04	0.0	-0.5	6.0	0.65	13.5	14.1	-2.1	0.31	-1.88
18	STA 3-RAW	5-26-93	956	31.4	1.66	33.8	671	93	-5	6.70	0.2	-0.2	5.9	1.17	3.2	6.0	-1.3	0.99	-1.38
~~19~~																			
~~20~~																			
~~21~~																			
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QUALITY CONTROL

CVS SKA		X	X	X	X	X	X	X	X	X	X	X	20.13	X	X	X	86.38	76.47
CVS SKB		X	X	X	X	X	X	X	X	26.3	108	136	X	261	270	22.6	X	X
CVS SKC		X	X	X	X	2280	1,050	1,030	X	X	X	X	X	X	X	X	X	X
CV-1	(SPEX)	244	251	245	250	4640	722	2310	X	111	223	590	~~755~~	133	496	257	X	X
		(250)	(250)	(250)	(250)	(5000)	(750)	(2500)	X	(125)	(250)	(625)	(1000)	(1000)	(500)	(250)	X	X

DUPLICATES

19	C1-RAW-DUP	103	33.9	1.69	45.7	538	124	-3	6.75	0.0	-1.1	1.2	1.87	6.2	18.0	-1.8	-0.02	-0.40
20	STA-2	112	38.6	2.99	52.8	789	164	-4	7.00	0.0	-1.2	7.0	1.31	0.8	13.5	-0.7	0.28	-0.74

Comments: Ca, Mg, K, Na, and Si reported in mg/L. All others in ug/L.
Ca, Mg, K, Na, Si, Fe, Mn, and Co analyzed by EPA method 200.7.
Cd, Cr, Cu, Ni, Zn, and Ag analyzed by EPA method 200.7 with the USN.
Pb, As, and Se analyzed by EPA method 200.9.

RUNNING STATIONS

Sample Location:			STATION 2	STATION 5 RAW	5-BOOSTER
Sample Date:			3/21/00	3/15/00	3/15/00
Sampled by:			TW	TW	TW
Analysis Date:			3/21/00	3/17/00	3/17/00
Analyzed by:			JB	JB	JB
	MDL	MCL			
WARNING NOTICES:					
Dichlorodifluoromethane	0.4		ND	ND	ND
Chloromethane	0.5		ND	ND	ND
Vinyl Chloride	0.3	2	ND	ND	ND
Bromomethane	0.6		ND	ND	ND
Chloroethane	0.4		ND	ND	ND
Trichlorofluoromethane	0.3		ND	ND	ND
Diethyl Ether	0.5		ND	ND	ND
1,1-Dichloroethene	0.3	7	ND	ND	ND
Acetone	1.9		ND	ND	ND
Iodomethane	0.7		ND	ND	ND
Carbon Disulfide	0.6		ND	ND	ND
Allyl Chloride	0.5		ND	ND	ND
Methylene Chloride	0.3	5	ND	ND	ND
Acrylonitrile	1.0		ND	ND	ND
t-1,2-Dichloroethene	0.3	100	ND	ND	ND
Methyl -t-Butyl Ether	0.3		0.5	ND	ND
1,1-Dichloroethane	0.7		ND	ND	ND
2,2-Dichloropropane	0.4		ND	ND	ND
c-1,2-Dichloroethene	0.3	70	ND	ND	ND
Methyl Ethyl Ketone	0.9		ND	ND	ND
Propionitrile	0.7		ND	ND	ND
Methyl Acrylate	0.8		ND	ND	ND
Bromochloromethane	0.3		ND	ND	ND
Methacrylonitrile	0.5		ND	ND	ND
Tetrahydrofuran	0.4		ND	ND	ND
Chloroform	0.3	TTHM*	0.4	ND	ND
1,1,1-Trichloroethane	0.3	200	ND	ND	ND
n-Butyl Chloride	0.4		ND	ND	ND
Carbon Tetrachloride	0.3	5	ND	ND	ND
1,1-Dichloropropene	0.3		ND	ND	ND
Benzene	0.3	5	ND	ND	ND
1,2-Dichloroethane	0.3	5	ND	ND	ND
Trichloroethene	0.3	5	ND	ND	ND
1,2-Dichloropropane	0.3	5	ND	ND	ND
Dibromomethane	0.3		ND	ND	ND
Methyl Methacrylate	0.3		ND	ND	ND
Bromodichloromethane	0.3	TTHM*	ND	ND	ND
2-Nitropropane	0.8		ND	ND	ND
Chloroacetonitrile	0.6		ND	ND	ND
c-1,3-Dichloropropene	0.3		ND	ND	ND
4-Methyl 2-Pentanone	0.4		ND	ND	ND
Ethyl Methacrylate	0.7		ND	ND	ND
Dichloroacetone	0.4		ND	ND	ND
Toluene	0.3	1000	ND	ND	ND
t-1,3-Dichloropropene	0.3		ND	ND	ND
1,1,2-Trichloroethane	0.3	5	ND	ND	ND
Tetrachloroethene	0.4	5	ND	ND	ND
1,3-Dichloropropane	0.3		ND	ND	ND
Methyl Butyl Ketone	0.5		ND	ND	ND
Dibromochloromethane	0.3	TTHM*	ND	ND	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STATION 2	STATION 6 RAW	5-BOOSTER
Sample Date:			3/21/00	3/15/00	3/15/00
Sampled by:			TW	TW	TW
Analysis Date:			3/21/00	3/17/00	3/17/00
Analyzed by:			JB	JB	JB
	MDL	MCL			
1,2-Dibromoethane	0.2		ND	ND	ND
Chlorobenzene	0.3	100	ND	ND	ND
1,1,1,2-Tetrachloroethene	0.3		ND	ND	ND
Ethylbenzene	0.3	700	ND	ND	ND
m&p-Xylene	0.6	XYLENES**	ND	ND	ND
o-Xylene	0.3	XYLENES**	ND	ND	ND
Styrene	0.5	100	ND	ND	ND
Bromoform	0.4	TTHM*	ND	ND	ND
Isopropyl Benzene	0.3		ND	ND	ND
1,1,2,2-Tetrachlorethane	0.4		ND	ND	ND
1,2,3-Trichloropropane	0.4		ND	ND	ND
Bromobenzene	0.6		ND	ND	ND
T-1,4-Dichloro-2-Butene	2.6		ND	ND	ND
n-Propyl Benzene	0.3		ND	ND	ND
2-Chloro Toluene	0.3		ND	ND	ND
1,3,5-Trimethyl Benzene	0.3		ND	ND	ND
4-Chloro Toluene	0.3		ND	ND	ND
t-Butyl Benzene	0.3		ND	ND	ND
1,2,4-Trimethyl Benzene	0.3		ND	ND	ND
Pentachloroethane	0.6		ND	ND	ND
sec-Butyl Benzene	0.3		ND	ND	ND
p-Isopropyl Toluene	0.3		ND	ND	ND
1,4-Dichlorobenzene	0.4	75	ND	ND	ND
1,3-Dichlorobenzene	0.3		ND	ND	ND
n-Butyl Benzene	0.4		ND	ND	ND
1,2-Dichlorobenzene	0.5	600	ND	ND	ND
Hexachloroethane	0.6		ND	ND	ND
1,2-Dibromo-3-Chloro Propane	0.6		ND	ND	ND
Nitrobenzene	1.2		ND	ND	ND
1,2,4-Trichlorobenzene	0.4	70	ND	ND	ND
Hexachlorobutadiene	0.6		ND	ND	ND
Naphthalene	0.5		ND	ND	ND
1,2,3-Trichloro Benzene	0.5		ND	ND	ND
WARNING NOTICES:					

**TTHM = Regulated as Total Trihalomethanes with the total not to exceed 100 ug/L.*
***XYLENES= Regulated as Total Xylenes with the total not to exceed 10,000 ug/L.*

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

MISC SAMPLES

Sample Location:			STA.2 BOOSTER
Sample Date:			9/12/00
Sampled by:			RDS
Analysis Date:			9/12/00
Analyzed by:			JB
	MDL	MCL	
WARNING NOTICES:			
Dichlorodifluoromethane	0.3		ND
Chloromethane	0.6		ND
Vinyl Chloride	0.2	2	ND
Bromomethane	0.4		ND
Chloroethane	0.4		ND
Trichlorofluoromethane	0.2		ND
Diethyl Ether	0.5		ND
1,1-Dichloroethene	0.3	7	ND
Acetone	0.8		ND
Iodomethane	0.6		ND
Carbon Disulfide	1.1		ND
Allyl Chloride	0.3		ND
Methylene Chloride	0.4	5	ND
Acrylonitrile	1.0		ND
t-1,2-Dichloroethene	0.3	100	ND
Methyl -t-Butyl Ether	0.4		0.7
1,1-Dichloroethane	0.2		ND
2,2-Dichloropropane	1.0		ND
c-1,2-Dichloroethene	0.2	70	0.5
Methyl Ethyl Ketone	0.8		ND
Propionitrile	0.3		ND
Methyl Acrylate	0.3		ND
Bromochloromethane	0.3		ND
Methacrylonitrile	0.3		ND
Tetrahydrofuran	0.5		ND
Chloroform	0.2	TTHM*	1.3
1,1,1-Trichloroethane	0.3	200	ND
n-Butyl Chloride	0.3		ND
Carbon Tetrachloride	0.1	5	ND
1,1-Dichloropropene	0.2		ND
Benzene	0.2	5	ND
1,2-Dichloroethane	0.3	5	ND
Trichloroethene	0.1	5	ND
1,2-Dichloropropane	0.4	5	ND
Dibromomethane	0.3		ND
Methyl Methacrylate	0.2		ND
Bromodichloromethane	0.3	TTHM*	ND
2-Nitropropane	0.3		ND
Chloroacetonitrile	0.4		ND
c-1,3-Dichloropropene	0.2		ND
4-Methyl 2-Pentanone	0.3		ND
Ethyl Methacrylate	0.3		ND
Dichloroacetone	0.3		ND
Toluene	0.2	1000	ND
t-1,3-Dichloropropene	0.2		ND
1,1,2-Trichloroethane	0.3	5	ND
Tetrachloroethene	0.4	5	ND
1,3-Dichloropropane	0.2		ND
Methyl Butyl Ketone	0.4		ND
Dibromochloromethane	0.3	TTHM*	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

MISC SAMPLES

Sample Location:			STA.2 BOOSTER
Sample Date:			9/12/00
Sampled by:			RDS
Analysis Date:			9/12/00
Analyzed by:			JB
	MDL	MCL	
1,2-Dibromoethane	0.1		ND
Chlorobenzene	0.3	100	ND
1,1,1,2-Tetrachloroethene	0.3		ND
Ethylbenzene	0.1	700	ND
m&p-Xylene	0.3	XYLENES**	ND
o-Xylene	0.1	XYLENES**	ND
Styrene	0.2	100	ND
Bromoform	0.2	TTHM*	ND
Isopropyl Benzene	0.2		ND
1,1,2,2-Tetrachlorethane	0.2		ND
1,2,3-Trichloropropane	0.2		ND
Bromobenzene	0.2		ND
T-1,4-Dichloro-2-Butene	0.7		ND
n-Propyl Benzene	0.1		ND
2-Chloro Toluene	0.2		ND
1,3,5-Trimethyl Benzene	0.2		ND
4-Chloro Toluene	0.2		ND
t-Butyl Benzene	0.2		ND
1,2,4-Trimethyl Benzene	0.3		ND
Pentachloroethane	1.0		ND
sec-Butyl Benzene	0.1		ND
p-Isopropyl Toluene	0.1		ND
1,4-Dichlorobenzene	0.2	75	ND
1,3-Dichlorobenzene	0.2		ND
n-Butyl Benzene	0.3		ND
1,2-Dichlorobenzene	0.2	600	ND
Hexachloroethane	0.3		ND
1,2-Dibromo-3-Chloro Propane	0.3		ND
Nitrobenzene	1.0		ND
1,2,4-Trichlorobenzene	0.1	70	ND
Hexachlorobutadiene	0.3		ND
Naphthalene	0.3		ND
1,2,3-Trichloro Benzene	0.1		ND
WARNING NOTICES:			

*TTHM = Regulated as Total Trihalomethanes with the total not to
**XYLENES= Regulated as Total Xylenes with the total not to exc

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

MISC SAMPLES

Sample Location:			STA.2
Sample Date:			10/24/00
Sampled by:			RDS
Analysis Date:			10/25/00
Analyzed by:			JB
	MDL	MCL	
WARNING NOTICES:			
Dichlorodifluoromethane	0.3		ND
Chloromethane	0.6		ND
Vinyl Chloride	0.2	2	ND
Bromomethane	0.4		ND
Chloroethane	0.4		ND
Trichlorofluoromethane	0.2		ND
Diethyl Ether	0.5		ND
1,1-Dichloroethene	0.3	7	ND
Acetone	0.8		ND
Iodomethane	0.6		ND
Carbon Disulfide	1.1		ND
Allyl Chloride	0.3		ND
Methylene Chloride	0.4	5	ND
Acrylonitrile	1.0		ND
t-1,2-Dichloroethene	0.3	100	ND
Methyl -t-Butyl Ether	0.4		0.5
1,1-Dichloroethane	0.2		ND
2,2-Dichloropropane	1.0		ND
c-1,2-Dichloroethene	0.2	70	0.5
Methyl Ethyl Ketone	0.8		ND
Propionitrile	0.3		ND
Methyl Acrylate	0.3		ND
Bromochloromethane	0.3		ND
Methacrylonitrile	0.3		ND
Tetrahydrofuran	0.5		ND
Chloroform	0.2	TTHM*	ND
1,1,1-Trichloroethane	0.3	200	ND
n-Butyl Chloride	0.3		ND
Carbon Tetrachloride	0.1	5	ND
1,1-Dichloropropene	0.2		ND
Benzene	0.2	5	ND
1,2-Dichloroethane	0.3	5	ND
Trichloroethene	0.1	5	ND
1,2-Dichloropropane	0.4	5	ND
Dibromomethane	0.3		ND
Methyl Methacrylate	0.2		ND
Bromodichloromethane	0.3	TTHM*	ND
2-Nitropropane	0.3		ND
Chloroacetonitrile	0.4		ND
c-1,3-Dichloropropene	0.2		ND
4-Methyl 2-Pentanone	0.3		ND
Ethyl Methacrylate	0.3		ND
Dichloroacetone	0.3		ND
Toluene	0.2	1000	ND
t-1,3-Dichloropropene	0.2		ND
1,1,2-Trichloroethane	0.3	5	ND
Tetrachloroethene	0.4	5	ND
1,3-Dichloropropane	0.2		ND
Methyl Butyl Ketone	0.4		ND
Dibromochloromethane	0.3	TTHM*	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

MISC SAMPLES

Sample Location:			STA.2
Sample Date:			10/24/00
Sampled by:			RDS
Analysis Date:			10/25/00
Analyzed by:			JB
	MDL	MCL	
1,2-Dibromoethane	0.1		ND
Chlorobenzene	0.3	100	ND
1,1,1,2-Tetrachloroethene	0.3		ND
Ethylbenzene	0.1	700	ND
m&p-Xylene	0.3	XYLENES**	ND
o-Xylene	0.1	XYLENES**	ND
Styrene	0.2	100	ND
Bromoform	0.2	TTHM*	ND
Isopropyl Benzene	0.2		ND
1,1,2,2-Tetrachlorethane	0.2		ND
1,2,3-Trichloropropane	0.2		ND
Bromobenzene	0.2		ND
T-1,4-Dichloro-2-Butene	0.7		ND
n-Propyl Benzene	0.1		ND
2-Chloro Toluene	0.2		ND
1,3,5-Trimethyl Benzene	0.2		ND
4-Chloro Toluene	0.2		ND
t-Butyl Benzene	0.2		ND
1,2,4-Trimethyl Benzene	0.3		ND
Pentachloroethane	1.0		ND
sec-Butyl Benzene	0.1		ND
p-Isopropyl Toluene	0.1		ND
1,4-Dichlorobenzene	0.2	75	ND
1,3-Dichlorobenzene	0.2		ND
n-Butyl Benzene	0.3		ND
1,2-Dichlorobenzene	0.2	600	ND
Hexachloroethane	0.3		ND
1,2-Dibromo-3-Chloro Propane	0.3		ND
Nitrobenzene	1.0		ND
1,2,4-Trichlorobenzene	0.1	70	ND
Hexachlorobutadiene	0.3		ND
Naphthalene	0.3		ND
1,2,3-Trichloro Benzene	0.1		ND
WARNING NOTICES:			

**TTHM = Regulated as Total Trihalomethanes with the total r*
***XYLENES= Regulated as Total Xylenes with the total not tc*

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STA.2	STA.25
Sample Date:			11/21/00	11/21/00
Sampled by:			RDS	RDS
Analysis Date:			11/30/00	11/30/00
Analyzed by:			JB	JB
	MDL	MCL		
WARNING NOTICES:				
Dichlorodifluoromethane	0.3		ND	ND
Chloromethane	0.6		ND	ND
Vinyl Chloride	0.2	2	ND	ND
Bromomethane	0.4		ND	ND
Chloroethane	0.4		ND	ND
Trichlorofluoromethane	0.2		ND	ND
Diethyl Ether	0.5		ND	ND
1,1-Dichloroethene	0.3	7	ND	ND
Acetone	0.8		ND	ND
Iodomethane	0.6		ND	ND
Carbon Disulfide	1.1		ND	ND
Allyl Chloride	0.3		ND	ND
Methylene Chloride	0.4	5	ND	ND
Acrylonitrile	1.0		ND	ND
t-1,2-Dichloroethene	0.3	100	ND	ND
Methyl -t-Butyl Ether	0.4		0.4	ND
1,1-Dichloroethane	0.2		ND	ND
2,2-Dichloropropane	1.0		ND	ND
c-1,2-Dichloroethene	0.2	70	0.6	ND
Methyl Ethyl Ketone	0.8		ND	ND
Propionitrile	0.3		ND	ND
Methyl Acrylate	0.3		ND	ND
Bromochloromethane	0.3		ND	ND
Methacrylonitrile	0.3		ND	ND
Tetrahydrofuran	0.5		ND	ND
Chloroform	0.2	TTHM*	ND	ND
1,1,1-Trichloroethane	0.3	200	ND	ND
n-Butyl Chloride	0.3		ND	ND
Carbon Tetrachloride	0.1	5	ND	ND
1,1-Dichloropropene	0.2		ND	ND
Benzene	0.2	5	ND	ND
1,2-Dichloroethane	0.3	5	ND	ND
Trichloroethene	0.1	5	ND	ND
1,2-Dichloropropane	0.4	5	ND	ND
Dibromomethane	0.3		ND	ND
Methyl Methacrylate	0.2		ND	ND
Bromodichloromethane	0.3	TTHM*	ND	ND
2-Nitropropane	0.3		ND	ND
Chloroacetonitrile	0.4		ND	ND
c-1,3-Dichloropropene	0.2		ND	ND
4-Methyl 2-Pentanone	0.3		ND	ND
Ethyl Methacrylate	0.3		ND	ND
Dichloroacetone	0.3		ND	ND
Toluene	0.2	1000	ND	ND
t-1,3-Dichloropropene	0.2		ND	ND
1,1,2-Trichloroethane	0.3	5	ND	ND
Tetrachloroethene	0.4	5	ND	ND
1,3-Dichloropropane	0.2		ND	ND
Methyl Butyl Ketone	0.4		ND	ND
Dibromochloromethane	0.3	TTHM*	ND	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STA.2	STA.26
Sample Date:			11/21/00	11/21/00
Sampled by:			RDS	RDS
Analysis Date:			11/30/00	11/30/00
Analyzed by:			JB	JB
	MDL	MCL		
1,2-Dibromoethane	0.1		ND	ND
Chlorobenzene	0.3	100	ND	ND
1,1,1,2-Tetrachloroethene	0.3		ND	ND
Ethylbenzene	0.1	700	ND	ND
m&p-Xylene	0.3	XYLENES**	ND	ND
o-Xylene	0.1	XYLENES**	ND	ND
Styrene	0.2	100	ND	ND
Bromoform	0.2	TTHM*	ND	ND
Isopropyl Benzene	0.2		ND	ND
1,1,2,2-Tetrachlorethane	0.2		ND	ND
1,2,3-Trichloropropane	0.2		ND	ND
Bromobenzene	0.2		ND	ND
T-1,4-Dichloro-2-Butene	0.7		ND	ND
n-Propyl Benzene	0.1		ND	ND
2-Chloro Toluene	0.2		ND	ND
1,3,5-Trimethyl Benzene	0.2		ND	ND
4-Chloro Toluene	0.2		ND	ND
t-Butyl Benzene	0.2		ND	ND
1,2,4-Trimethyl Benzene	0.3		ND	ND
Pentachloroethane	1.0		ND	ND
sec-Butyl Benzene	0.1		ND	ND
p-Isopropyl Toluene	0.1		ND	ND
1,4-Dichlorobenzene	0.2	75	ND	ND
1,3-Dichlorobenzene	0.2		ND	ND
n-Butyl Benzene	0.3		ND	ND
1,2-Dichlorobenzene	0.2	600	ND	ND
Hexachloroethane	0.3		ND	ND
1,2-Dibromo-3-Chloro Propane	0.3		ND	ND
Nitrobenzene	1.0		ND	ND
1,2,4-Trichlorobenzene	0.1	70	ND	ND
Hexachlorobutadiene	0.3		ND	ND
Naphthalene	0.3		ND	ND
1,2,3-Trichloro Benzene	0.1		ND	ND
WARNING NOTICES:				

**TTHM = Regulated as Total Trihalomethanes with the total not to exceed 10*
***XYLENES= Regulated as Total Xylenes with the total not to exceed 10,000*

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

Drinkh20
11/30/00

SUMMER WELL PROGRAM

Sample Location:		SUMMER WELLS 2001	STA.1	STA.2	STA.4	STA.5	STA.8	ST.8-1
Sample Date:			6/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/21/01
Sampled by:			TJW	TJW	TJW	TJW	TJW	TJW
Analysis Date:			6/22/01	6/22/01	6/22/01	6/22/01	6/22/01	6/29/01
Analyzed by:			JB	JB	JB	JB	JB	JB
	MDL	MCL						
WARNING NOTICES:								
Dichlorodifluoromethane	0.5		ND	ND	ND	ND	ND	ND
Chloromethane	0.5		ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.5	2	ND	ND	ND	ND	ND	ND
Bromomethane	0.5		ND	ND	ND	ND	ND	ND
Chloroethane	0.5		ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.5		ND	ND	ND	ND	ND	ND
Diethyl Ether	0.5		ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.5	7	ND	ND	ND	ND	ND	ND
Acetone	0.5		ND	ND	ND	ND	ND	ND
Iodomethane	0.5		ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.5		ND	ND	ND	ND	ND	ND
Allyl Chloride	0.5		ND	ND	ND	ND	ND	ND
Methylene Chloride	0.5	5	ND	ND	ND	ND	ND	ND
Acrylonitrile	0.5		ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	0.5	100	ND	ND	ND	ND	ND	ND
Methyl -t-Butyl Ether	0.5		ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.5		ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.5		ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	0.5	70	ND	0.8	ND	ND	ND	ND
Methyl Ethyl Ketone	0.5		ND	ND	ND	ND	ND	ND
Propionitrile	0.5		ND	ND	ND	ND	ND	ND
Methyl Acrylate	0.5		ND	ND	ND	ND	ND	ND
Bromochloromethane	0.5		ND	ND	ND	ND	ND	ND
Methacrylonitrile	0.5		ND	ND	ND	ND	ND	ND
Tetrahydrofuran	0.5		ND	ND	ND	ND	ND	ND
Chloroform	0.5	TTHM*	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.5	200	ND	ND	ND	ND	ND	ND
n-Butyl Chloride	0.5		ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.5		ND	ND	ND	ND	ND	ND
Benzene	0.5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.5	5	ND	ND	ND	ND	ND	ND
Trichloroethene	0.5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.5	5	ND	ND	ND	ND	ND	ND
Dibromomethane	0.5		ND	ND	ND	ND	ND	ND
Methyl Methacrylate	0.5		ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.5	TTHM*	ND	ND	ND	ND	ND	ND
2-Nitropropane	0.5		ND	ND	ND	ND	ND	ND
Chloroacetonitrile	0.5		ND	ND	ND	ND	ND	ND
c-1,3-Dichloropropene	0.5		ND	ND	ND	ND	ND	ND
4-Methyl 2-Pentanone	0.5		ND	ND	ND	ND	ND	ND
Ethyl Methacrylate	0.5		ND	ND	ND	ND	ND	ND
Dichloroacetone	0.5		ND	ND	ND	ND	ND	ND
Toluene	0.5	1000	ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	0.5		ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.5	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.5	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.5		ND	ND	ND	ND	ND	ND
Methyl Butyl Ketone	0.5		ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.5	TTHM*	0.7	ND	ND	ND	ND	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

H20MASTERS
7/11/01

SUMMER WELL PROGRAM

Sample Location:		SUMMER WELLS 2001	STA.1	STA.2	STA.4	STA.5	STA.8	ST.8-1
Sample Date:			6/12/01	6/12/01	6/12/01	6/12/01	6/12/01	6/21/01
Sampled by:			TJW	TJW	TJW	TJW	TJW	TJW
Analysis Date:			6/22/01	6/22/01	6/22/01	6/22/01	6/22/01	6/29/01
Analyzed by:			JB	JB	JB	JB	JB	JB
	MDL	MCL						
1,2-Dibromoethane	0.5		ND	ND	ND	ND	ND	ND
Chlorobenzene	0.5	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	0.5		ND	ND	ND	ND	ND	ND
Ethylbenzene	0.5	700	ND	ND	ND	ND	ND	ND
m&p-Xylene	0.5	XYLENES**	ND	ND	ND	ND	ND	ND
o-Xylene	0.5	XYLENES**	ND	ND	ND	ND	ND	ND
Styrene	0.5	100	ND	ND	ND	ND	ND	ND
Bromoform	0.5	TTHM*	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.5		ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachlorethane	0.5		ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.5		ND	ND	ND	ND	ND	ND
Bromobenzene	0.5		ND	ND	ND	ND	ND	ND
T-1,4-Dichloro-2-Butene	0.5		ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.5		ND	ND	ND	ND	ND	ND
2-Chloro Toluene	0.5		ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.5		ND	ND	ND	ND	ND	ND
4-Chloro Toluene	0.5		ND	ND	ND	ND	ND	ND
t-Butyl Benzene	0.5		ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.5		ND	ND	ND	ND	ND	ND
Pentachloroethane	0.5		ND	ND	ND	ND	ND	ND
sec-Butyl Benzene	0.5		ND	ND	ND	ND	ND	ND
p-Isopropyl Toluene	0.5		ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.5	75	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.5		ND	ND	ND	ND	ND	ND
n-Butyl Benzene	0.5		ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.5	600	ND	ND	ND	ND	ND	ND
Hexachloroethane	0.5		ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloro Propane	0.5		ND	ND	ND	ND	ND	ND
Nitrobenzene	0.5		ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	70	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5		ND	ND	ND	ND	ND	ND
Naphthalene	0.5		ND	ND	ND	ND	ND	ND
1,2,3-Trichloro Benzene	0.5		ND	ND	ND	ND	ND	ND
WARNING NOTICES:								

***TTHM = Regulated as Total Trihalomethanes with the total not to exceed 100 ug/L**
****XYLENES= Regulated as Total Xylenes with the total not to exceed 10,000 ug/L.**

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

H20MASTERS
7/11/01

RUNNING STATIONS

Sample Location:			STA. 2
Sample Date:			1/23/01
Sampled by:			RDS
Analysis Date:			1/24/01
Analyzed by:			JB
	MDL	MCL	
WARNING NOTICES:			
Dichlorodifluoromethane	0.5		ND
Chloromethane	0.5	1	ND
Vinyl Chloride	0.5	2	ND
Bromomethane	0.5		ND
Chloroethane	0.5		ND
Trichlorofluoromethane	0.5		ND
Diethyl Ether	0.5		ND
1,1-Dichloroethene	0.5	7	ND
Acetone	0.8		ND
Iodomethane	0.6		ND
Carbon Disulfide	1.1		ND
Allyl Chloride	0.5		ND
Methylene Chloride	0.5	5	ND
Acrylonitrile	1.0		ND
t-1,2-Dichloroethene	0.5	100	ND
Methyl -t-Butyl Ether	0.5		ND
1,1-Dichloroethane	0.5		ND
2,2-Dichloropropane	1.0		ND
c-1,2-Dichloroethene	0.5	70	0.6
Methyl Ethyl Ketone	0.8		ND
Propionitrile	0.5		ND
Methyl Acrylate	0.5		ND
Bromochloromethane	0.5		ND
Methacrylonitrile	0.5		ND
Tetrahydrofuran	0.5		ND
Chloroform	0.5	TTHM*	ND
1,1,1-Trichloroethane	0.5	200	ND
n-Butyl Chloride	0.5		ND
Carbon Tetrachloride	0.5	5	ND
1,1-Dichloropropene	0.5		ND
Benzene	0.5	5	ND
1,2-Dichloroethane	0.5	5	ND
Trichloroethene	0.5	5	ND
1,2-Dichloropropane	0.5	5	ND
Dibromomethane	0.5		ND
Methyl Methacrylate	0.5		ND
Bromodichloromethane	0.5	TTHM*	ND
2-Nitropropane	0.5		ND
Chloroacetonitrile	0.5		ND
c-1,3-Dichloropropene	0.5		ND
4-Methyl 2-Pentanone	0.5		ND
Ethyl Methacrylate	0.5		ND
Dichloroacetone	0.5		ND
Toluene	0.5	1000	ND
t-1,3-Dichloropropene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND
Tetrachloroethene	0.5	5	ND
1,3-Dichloropropane	0.5		ND
Methyl Butyl Ketone	0.5		ND
Dibromochloromethane	0.5	TTHM*	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STA. 2
Sample Date:			1/23/01
Sampled by:			RDS
Analysis Date:			1/24/01
Analyzed by:			JB
	MDL	MCL	
1,2-Dibromoethane	0.5		ND
Chlorobenzene	0.5	100	ND
1,1,1,2-Tetrachloroethene	0.5		ND
Ethylbenzene	0.5	700	ND
m&p-Xylene	0.5	XYLENES**	ND
o-Xylene	0.5	XYLENES**	ND
Styrene	0.5	100	ND
Bromoform	0.5	TTHM*	ND
Isopropyl Benzene	0.5		ND
1,1,2,2-Tetrachlorethane	0.5		ND
1,2,3-Trichloropropane	0.5		ND
Bromobenzene	0.5		ND
T-1,4-Dichloro-2-Butene	0.7		ND
n-Propyl Benzene	0.5		ND
2-Chloro Toluene	0.5		ND
1,3,5-Trimethyl Benzene	0.5		ND
4-Chloro Toluene	0.2		ND
t-Butyl Benzene	0.5		ND
1,2,4-Trimethyl Benzene	0.5		ND
Pentachloroethane	1.0		ND
sec-Butyl Benzene	0.5		ND
p-Isopropyl Toluene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND
1,3-Dichlorobenzene	0.5		ND
n-Butyl Benzene	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND
Hexachloroethane	0.5		ND
1,2-Dibromo-3-Chloro Propane	0.5		ND
Nitrobenzene	1.0		ND
1,2,4-Trichlorobenzene	0.5	70	ND
Hexachlorobutadiene	0.5		ND
Naphthalene	0.5		ND
1,2,3-Trichloro Benzene	0.5		ND
WARNING NOTICES:			

**TTHM = Regulated as Total Trihalomethanes with the total not t*
***XYLENES= Regulated as Total Xylenes with the total not to ex*

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STA.2
Sample Date:			2/27/01
Sampled by:			RDS
Analysis Date:			2/28/01
Analyzed by:			JB
	MDL	MCL	
WARNING NOTICES:			
Dichlorodifluoromethane	0.5		ND
Chloromethane	0.5		ND
Vinyl Chloride	0.5	2	ND
Bromomethane	0.5		ND
Chloroethane	0.5		ND
Trichlorofluoromethane	0.5		ND
Diethyl Ether	0.5		ND
1,1-Dichloroethene	0.5	7	ND
Acetone	0.5		ND
Iodomethane	0.5		ND
Carbon Disulfide	0.5		ND
Allyl Chloride	0.5		ND
Methylene Chloride	0.5	5	ND
Acrylonitrile	0.5		ND
t-1,2-Dichloroethene	0.5	100	ND
Methyl -t-Butyl Ether	0.5		ND
1,1-Dichloroethane	0.5		ND
2,2-Dichloropropane	0.5		ND
c-1,2-Dichloroethene	0.5	70	0.5
Methyl Ethyl Ketone	0.5		ND
Propionitrile	0.5		ND
Methyl Acrylate	0.5		ND
Bromochloromethane	0.5		ND
Methacrylonitrile	0.5		ND
Tetrahydrofuran	0.5		ND
Chloroform	0.5	TTHM*	ND
1,1,1-Trichloroethane	0.5	200	ND
n-Butyl Chloride	0.5		ND
Carbon Tetrachloride	0.5	5	ND
1,1-Dichloropropene	0.5		ND
Benzene	0.5	5	ND
1,2-Dichloroethane	0.5	5	ND
Trichloroethene	0.5	5	ND
1,2-Dichloropropane	0.5	5	ND
Dibromomethane	0.5		ND
Methyl Methacrylate	0.5		ND
Bromodichloromethane	0.5	TTHM*	ND
2-Nitropropane	0.5		ND
Chloroacetonitrile	0.5		ND
c-1,3-Dichloropropene	0.5		ND
4-Methyl 2-Pentanone	0.5		ND
Ethyl Methacrylate	0.5		ND
Dichloroacetone	0.5		ND
Toluene	0.5	1000	ND
t-1,3-Dichloropropene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND
Tetrachloroethene	0.5	5	ND
1,3-Dichloropropane	0.5		ND
Methyl Butyl Ketone	0.5		ND
Dibromochloromethane	0.5	TTHM*	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STA.2
Sample Date:			2/27/01
Sampled by:			RDS
Analysis Date:			2/28/01
Analyzed by:			JB
	MDL	MCL	
1,2-Dibromoethane	0.5		ND
Chlorobenzene	0.5	100	ND
1,1,1,2-Tetrachloroethene	0.5		ND
Ethylbenzene	0.5	700	ND
m&p-Xylene	0.5	XYLENES**	ND
o-Xylene	0.5	XYLENES**	ND
Styrene	0.5	100	ND
Bromoform	0.5	TTHM*	ND
Isopropyl Benzene	0.5		ND
1,1,2,2-Tetrachlorethane	0.5		ND
1,2,3-Trichloropropane	0.5		ND
Bromobenzene	0.5		ND
T-1,4-Dichloro-2-Butene	0.5		ND
n-Propyl Benzene	0.5		ND
2-Chloro Toluene	0.5		ND
1,3,5-Trimethyl Benzene	0.5		ND
4-Chloro Toluene	0.5		ND
t-Butyl Benzene	0.5		ND
1,2,4-Trimethyl Benzene	0.5		ND
Pentachloroethane	0.5		ND
sec-Butyl Benzene	0.5		ND
p-Isopropyl Toluene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND
1,3-Dichlorobenzene	0.5		ND
n-Butyl Benzene	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND
Hexachloroethane	0.5		ND
1,2-Dibromo-3-Chloro Propane	0.5		ND
Nitrobenzene	0.5		ND
1,2,4-Trichlorobenzene	0.5	70	ND
Hexachlorobutadiene	0.5		ND
Naphthalene	0.5		ND
1,2,3-Trichloro Benzene	0.5		ND
WARNING NOTICES:			

***TTHM = Regulated as Total Trihalomethanes with t**
****XYLENES= Regulated as Total Xylenes with the to**

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STA.2
Sample Date:			3/13/01
Sampled by:			RDS
Analysis Date:			3/13/01
Analyzed by:			JB
	MDL	MCL	
WARNING NOTICES:			
Dichlorodifluoromethane	0.5		ND
Chloromethane	0.5		ND
Vinyl Chloride	0.5	2	ND
Bromomethane	0.5		ND
Chloroethane	0.5		ND
Trichlorofluoromethane	0.5		ND
Diethyl Ether	0.5		ND
1,1-Dichloroethene	0.5	7	ND
Acetone	0.5		ND
Iodomethane	0.5		ND
Carbon Disulfide	0.5		ND
Allyl Chloride	0.5		ND
Methylene Chloride	0.5	5	ND
Acrylonitrile	0.5		ND
t-1,2-Dichloroethene	0.5	100	ND
Methyl -t-Butyl Ether	0.5		ND
1,1-Dichloroethane	0.5		ND
2,2-Dichloropropane	0.5		ND
c-1,2-Dichloroethene	0.5	70	0.6
Methyl Ethyl Ketone	0.5		ND
Propionitrile	0.5		ND
Methyl Acrylate	0.5		ND
Bromochloromethane	0.5		ND
Methacrylonitrile	0.5		ND
Tetrahydrofuran	0.5		ND
Chloroform	0.5	TTHM*	ND
1,1,1-Trichloroethane	0.5	200	ND
n-Butyl Chloride	0.5		ND
Carbon Tetrachloride	0.5	5	ND
1,1-Dichloropropene	0.5		ND
Benzene	0.5	5	ND
1,2-Dichloroethane	0.5	5	ND
Trichloroethene	0.5	5	ND
1,2-Dichloropropane	0.5	5	ND
Dibromomethane	0.5		ND
Methyl Methacrylate	0.5		ND
Bromodichloromethane	0.5	TTHM*	ND
2-Nitropropane	0.5		ND
Chloroacetonitrile	0.5		ND
c-1,3-Dichloropropene	0.5		ND
4-Methyl 2-Pentanone	0.5		ND
Ethyl Methacrylate	0.5		ND
Dichloroacetone	0.5		ND
Toluene	0.5	1000	ND
t-1,3-Dichloropropene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND
Tetrachloroethene	0.5	5	ND
1,3-Dichloropropane	0.5		ND
Methyl Butyl Ketone	0.5		ND
Dibromochloromethane	0.5	TTHM*	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

RUNNING STATIONS

Sample Location:			STA.2
Sample Date:			3/13/01
Sampled by:			RDS
Analysis Date:			3/13/01
Analyzed by:			JB
	MDL	**MCL**	
1,2-Dibromoethane	0.5		ND
Chlorobenzene	0.5	100	ND
1,1,1,2-Tetrachloroethene	0.5		ND
Ethylbenzene	0.5	700	ND
m&p-Xylene	0.5	XYLENES**	ND
o-Xylene	0.5	XYLENES**	ND
Styrene	0.5	100	ND
Bromoform	0.5	TTHM*	ND
Isopropyl Benzene	0.5		ND
1,1,2,2-Tetrachlorethane	0.5		ND
1,2,3-Trichloropropane	0.5		ND
Bromobenzene	0.5		ND
T-1,4-Dichloro-2-Butene	0.5		ND
n-Propyl Benzene	0.5		ND
2-Chloro Toluene	0.5		ND
1,3,5-Trimethyl Benzene	0.5		ND
4-Chloro Toluene	0.5		ND
t-Butyl Benzene	0.5		ND
1,2,4-Trimethyl Benzene	0.5		ND
Pentachloroethane	0.5		ND
sec-Butyl Benzene	0.5		ND
p-Isopropyl Toluene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND
1,3-Dichlorobenzene	0.5		ND
n-Butyl Benzene	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND
Hexachloroethane	0.5		ND
1,2-Dibromo-3-Chloro Propane	0.5		ND
Nitrobenzene	0.5		ND
1,2,4-Trichlorobenzene	0.5	70	ND
Hexachlorobutadiene	0.5		ND
Naphthalene	0.5		ND
1,2,3-Trichloro Benzene	0.5		ND
WARNING NOTICES	0.5		

***TTHM = Regulated as Tota**
****XYLENES= Regulated as**

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

H20mar01
4/4/01

RUNNING STATIONS

Sample Location:			STA.2
Sample Date:			6/19/01
Sampled by:			RDS
Analysis Date:			6/21/01
Analyzed by:			JB
	MDL	MCL	
WARNING NOTICES:			
Dichlorodifluoromethane	0.5		ND
Chloromethane	0.5		ND
Vinyl Chloride	0.5	2	ND
Bromomethane	0.5		ND
Chloroethane	0.5		ND
Trichlorofluoromethane	0.5		ND
Diethyl Ether	0.5		ND
1,1-Dichloroethene	0.5	7	ND
Acetone	0.5		ND
Iodomethane	0.5		ND
Carbon Disulfide	0.5		ND
Allyl Chloride	0.5		ND
Methylene Chloride	0.5	5	ND
Acrylonitrile	0.5		ND
t-1,2-Dichloroethene	0.5	100	ND
Methyl -t-Butyl Ether	0.5		ND
1,1-Dichloroethane	0.5		ND
2,2-Dichloropropane	0.5		ND
c-1,2-Dichloroethene	0.5	70	0.9
Methyl Ethyl Ketone	0.5		ND
Propionitrile	0.5		ND
Methyl Acrylate	0.5		ND
Bromochloromethane	0.5		ND
Methacrylonitrile	0.5		ND
Tetrahydrofuran	0.5		ND
Chloroform	0.5	TTHM*	ND
1,1,1-Trichloroethane	0.5	200	ND
n-Butyl Chloride	0.5		ND
Carbon Tetrachloride	0.5	5	ND
1,1-Dichloropropene	0.5		ND
Benzene	0.5	5	ND
1,2-Dichloroethane	0.5	5	ND
Trichloroethene	0.5	5	ND
1,2-Dichloropropane	0.5	5	ND
Dibromomethane	0.5		ND
Methyl Methacrylate	0.5		ND
Bromodichloromethane	0.5	TTHM*	ND
2-Nitropropane	0.5		ND
Chloroacetonitrile	0.5		ND
c-1,3-Dichloropropene	0.5		ND
4-Methyl 2-Pentanone	0.5		ND
Ethyl Methacrylate	0.5		ND
Dichloroacetone	0.5		ND
Toluene	0.5	1000	ND
t-1,3-Dichloropropene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND
Tetrachloroethene	0.5	5	ND
1,3-Dichloropropane	0.5		ND
Methyl Butyl Ketone	0.5		ND
Dibromochloromethane	0.5	TTHM*	ND

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

H2OMASTERS
7/2/01

RUNNING STATIONS

Sample Location:			STA.2
Sample Date:			6/19/01
Sampled by:			RDS
Analysis Date:			6/21/01
Analyzed by:			JB
	MDL	MCL	
1,2-Dibromoethane	0.5		ND
Chlorobenzene	0.5	100	ND
1,1,1,2-Tetrachloroethene	0.5		ND
Ethylbenzene	0.5	700	ND
m&p-Xylene	0.5	XYLENES**	ND
o-Xylene	0.5	XYLENES**	ND
Styrene	0.5	100	ND
Bromoform	0.5	TTHM*	ND
Isopropyl Benzene	0.5		ND
1,1,2,2-Tetrachlorethane	0.5		ND
1,2,3-Trichloropropane	0.5		ND
Bromobenzene	0.5		ND
T-1,4-Dichloro-2-Butene	0.5		ND
n-Propyl Benzene	0.5		ND
2-Chloro Toluene	0.5		ND
1,3,5-Trimethyl Benzene	0.5		ND
4-Chloro Toluene	0.5		ND
t-Butyl Benzene	0.5		ND
1,2,4-Trimethyl Benzene	0.5		ND
Pentachloroethane	0.5		ND
sec-Butyl Benzene	0.5		ND
p-Isopropyl Toluene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND
1,3-Dichlorobenzene	0.5		ND
n-Butyl Benzene	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND
Hexachloroethane	0.5		ND
1,2-Dibromo-3-Chloro Propane	0.5		ND
Nitrobenzene	0.5		ND
1,2,4-Trichlorobenzene	0.5	70	ND
Hexachlorobutadiene	0.5		ND
Naphthalene	0.5		ND
1,2,3-Trichloro Benzene	0.5		ND
WARNING NOTICES:			

***TTHM = Regulated as Total Trihalomethanes with t**
****XYLENES= Regulated as Total Xylenes with the to**

MCL = Maximum Contaminant Level Set by EPA
ND = Not Detected at MDL (Method Detection Limit)
EPA Method 524.2, results are expressed in PPB (ug/l).
NA = Data Not Available, Parameter failed to meet acceptable QC criteria.

H20MASTERS
7/2/01

LABORATORY DETAIL REPORT

Client: *Kalamazoo Water Reclamation Plant*

KAR Project No. : *052572*

Date Reported : *06/16/05*

Project Desc. : *Analysis of two drinking water samples.*

Sample ID : *"05-157-2"*

Sampled By :

Sample Date : *6/6/2005*

Sample Time :

Date Received : *6/7/2005*

Sample Type : *SDWA*

KAR Sample No. : *052572-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Regulated/Unregulated VOC's	See below		EPA 524.2	06/14/05	KTL	
Prep, VCA	Completed		EPA 524.2	06/14/05	KTL	
1,1,1,2-Tetrachloroethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,1,1-Trichloroethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=200 ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,1,2-Trichloroethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=5 ug/L
1,1-Dichloroethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,1-Dichloroethene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=7 ug/L
1,1-Dichloropropene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,2,3-Trichlorobenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,2,3-Trichloropropane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,2,4-Trichlorobenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=70 ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,2-Dibromo-3-chloropropane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=0.2 ug/L
1,2-Dichlorobenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=600 ug/L
1,2-Dichloroethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=5 ug/L
1,2-Dichloropropane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=5 ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,3-Dichlorobenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,3-Dichloropropane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
1,4-Dichlorobenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=75 [5] ug/L
2,2-Dichloropropane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
2-Chlorotoluene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
4-Chlorotoluene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Benzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=5 ug/L
Bromobenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Bromochloromethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Bromodichloromethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Bromoform	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Bromomethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Carbon tetrachloride	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=5 ug/L
Chlorobenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=100 ug/L
Chloroethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Chloroform	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Chloromethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Cis-1,2-Dichloroethene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=70 ug/L
Cis-1,3-Dichloropropene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Dibromochloromethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Dibromomethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Dichlorodifluoromethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	

*MCL = Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

LABORATORY DETAIL REPORT

Client: *Kalamazoo Water Reclamation Plant*

KAR Project No. : *052572*

Date Reported : *06/16/05*

Project Desc. : *Analysis of two drinking water samples.*

Sample ID : *"05-157-2"*

Sampled By :

Sample Date : *6/6/2005*

Sample Time :

Date Received : *6/7/2005*

Sample Type : *SDWA*

KAR Sample No. : *052572-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Ethylbenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=700 ug/L
Ethylene dibromide	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=0.05 ug/L
Hexachlorobutadiene by 524.2	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Isopropylbenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
M-and/or p-xylene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Methylene chloride	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=5 ug/L
N-Butylbenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
N-Propylbenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Naphthalene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
O-Xylene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
P-Isopropyltoluene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Sec-Butylbenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Styrene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=100 ug/L
Tert-Butylbenzene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Tetrachloroethene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=5 ug/L
Toluene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=1000 ug/L
Trans-1,2-Dichloroethene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=100 ug/L
Trans-1,3-Dichloropropene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Trichloroethene	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=5 ug/L
Trichlorofluoromethane	<0.5	ug/L	EPA 524.2	06/14/05	KTL	
Vinyl chloride	<0.5	ug/L	EPA 524.2	06/14/05	KTL	MCL*=2 ug/L

*MCL = Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

LABORATORY DETAIL REPORT

Client: *Kalamazoo Water Reclamation Plant*

KAR Project No. : *062793*

Date Reported : *07/18/06*

Project Desc. : *Analysis of two drinking water samples.*

Sample ID : *"06-179-STA2"*

Sampled By : *JH of KWRP*

Sample Date : *6/28/2006*

Sample Time : *0800*

Date Received : *6/30/2006*

Sample Type : *SDWA*

KAR Sample No. : *062793-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Regulated/Unregulated VOC's	See below		EPA 524.2	07/07/06	JAR	
Prep. VOA	Completed		EPA 524.2	07/07/06	JAR	
1,1,1,2-Tetrachloroethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,1,1-Trichloroethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=200 ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,1,2-Trichloroethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=5 ug/L
1,1-Dichloroethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,1-Dichloroethene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=7 ug/L
1,1-Dichloropropene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,2,3-Trichlorobenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,2,3-Trichloropropane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,2,4-Trichlorobenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=70 ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,2-Dibromo-3-chloropropane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=0.2 ug/L
1,2-Dichlorobenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=600 ug/L
1,2-Dichloroethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=5 ug/L
1,2-Dichloropropane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=5 ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,3-Dichlorobenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,3-Dichloropropane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
1,4-Dichlorobenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=75 [5] ug/L
2,2-Dichloropropane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
2-Chlorotoluene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
4-Chlorotoluene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Benzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=5 ug/L
Bromobenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Bromochloromethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Bromodichloromethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Bromoform	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Bromomethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Carbon tetrachloride	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=5 ug/L
Chlorobenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=100 ug/L
Chloroethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Chloroform	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Chloromethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Cis-1,2-Dichloroethene	1.0	ug/L	EPA 524.2	07/07/06	JAR	MCL*=70 ug/L
Cis-1,3-Dichloropropene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Dibromochloromethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Dibromomethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Dichlorodifluoromethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	

*MCL = Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

LABORATORY DETAIL REPORT

Client: *Kalamazoo Water Reclamation Plant*

KAR Project No. : *062793*
Date Reported : *07/18/06*

Project Desc. : *Analysis of two drinking water samples.*

Sample ID : *"06-179-STA2"*
Sampled By : *JH of KWRP*
Sample Date : *6/28/2006*
Sample Time : *0800*

Date Received : *6/30/2006*
Sample Type : *SDWA*
KAR Sample No. : *062793-01*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Ethylbenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=700 ug/L
Ethylene dibromide	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=0.05 ug/L
Hexachlorobutadiene by 524.2	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Isopropylbenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
M-and/or p-xylene	<1	ug/L	EPA 524.2	07/07/06	JAR	
Methylene chloride	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=5 ug/L
N-Butylbenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
N-Propylbenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Naphthalene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
O-Xylene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
P-Isopropyltoluene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Sec-Butylbenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Styrene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=100 ug/L
Tert-Butylbenzene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Tetrachloroethene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=5 ug/L
Toluene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=1000 ug/L
Trans-1,2-Dichloroethene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=100 ug/L
Trans-1,3-Dichloropropene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Trichloroethene	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=5 ug/L
Trichlorofluoromethane	<0.5	ug/L	EPA 524.2	07/07/06	JAR	
Vinyl chloride	<0.5	ug/L	EPA 524.2	07/07/06	JAR	MCL*=2 ug/L

*MCL = Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

LABORATORY DETAIL REPORT

Client: *Kalamazoo Water Reclamation Plant*

KAR Project No. : *062793*

Date Reported : *07/18/06*

Project Desc. : *Analysis of two drinking water samples.*

Sample ID : *"06-178-STA12"*

Sampled By : *JH of KWRP*

Sample Date : *6/27/2006*

Sample Time : *1038*

Date Received : *6/30/2006*

Sample Type : *SDWA*

KAR Sample No. : *062793-02*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, metals	Completed		EPA 30xx,200.x	07/10/06	PML	
Arsenic, total, low level	9	ug/L	EPA 200.8	07/17/06	PML	MCL*=0.01 mg/L

*MCL = Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LA94908

Official Laboratory Report

Report To: CITY OF KALAMAZOO
1415 N. HARRISON
KALAMAZOO MI 49007

System Name/Owner:	CITY OF KALAMAZOO	WSSN/Pool ID:	03520
Collection Address:	112 CROSSTOWN- BORN CT,KALAMA	Source:	TYPE I
Collected By:	JIM HOYT	Site Code:	E002 STATION 2
Township/Well#/Section:	//	Collector:	Other
County:	Kalamazoo	Date Collected:	06/28/2006 08:00
Sample Point:	STD SAMPLE PT	Date Received:	06/28/2006 16:17
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Chloride	153	06/29/2006	4		SM 4500-Cl E	7647-14-5
Fluoride	0.44	06/29/2006	0.1	4.0	SM 4500 FC	16984-48-8
Hardness as CaCO3	407	06/29/2006	20		SM 2340 C	HARD-00-C
Iron (automated)	0.4	06/29/2006	0.1		SM 3500 FeB	7439-89-6
Nitrate as N	Not Detected	06/29/2006	0.4	10	SM 4500 NO3H	14797-55-8
Nitrite as N	Not detected	06/29/2006	0.05	1	SM 4500 NO3H	14797-65-0
Sodium (automated)	77	06/29/2006	5		SM 3500 NaB	7440-23-5
Sulfate	45	06/29/2006	10		SM 4500 SO4E	14808-79-8
Carbamates by HPLC						
3 Hydroxycarbofuran	Not Detected	07/05/2006	0.001		EPA 531.2	16655-82-6
Aldicarb	Not Detected	07/05/2006	0.001		EPA 531.2	116-06-3
Aldicarb sulfone	Not Detected	07/05/2006	0.001		EPA 531.2	1646-88-4
Aldicarb sulfoxide	Not Detected	07/05/2006	0.001		EPA 531.2	1646-87-3
Carbaryl	Not Detected	07/05/2006	0.001		EPA 531.2	63-25-2
Carbofuran	Not Detected	07/05/2006	0.001	0.04	EPA 531.2	1563-66-2
Methiocarb	Not Detected	07/05/2006	0.001		EPA 531.2	2032-65-7
Methomyl	Not Detected	07/05/2006	0.001		EPA 531.2	16752-77-5
Oxamyl	Not Detected	07/05/2006	0.001	0.2	EPA 531.2	23135-22-0
Propoxur	Not Detected	07/05/2006	0.001		EPA 531.2	114-26-1
Chlorinated Acid Herbicides						
2,4,5-T	Not Detected	07/05/2006	0.002		EPA 515.2	93-76-5
2,4,5-TP (silvex)	Not Detected	07/05/2006	0.0003	0.05	EPA 515.2	93-72-1
2,4-D	Not Detected	07/05/2006	0.002	0.07	EPA 515.2	94-75-7

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminent Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Sandy Kerns
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LA94908

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Pesticides Analysis by GC/MS						
Hexazinone	Not Detected	07/26/2006	0.003		EPA 525.2	51235-04-2
Lindane (gamma-BHC)	Not Detected	07/26/2006	0.00004	0.0002	EPA 525.2	58-89-9
Methoxychlor	Not Detected	07/26/2006	0.0002	0.04	EPA 525.2	72-43-5
Metolachlor	Not Detected	07/26/2006	0.001		EPA 525.2	51218-45-2
Metribuzin	Not Detected	07/26/2006	0.001		EPA 525.2	21087-64-9
Molinate	Not Detected	07/26/2006	0.002		EPA 525.2	2212-67-1
Octachlorocyclopentene	Not Detected	07/26/2006	0.002		EPA 525.2	706-78-5
PCB (aroclor 1016)	Not Detected	07/26/2006	0.0002	0.0005	EPA 525.2	12674-11-2
PCB (aroclor 1221)	Not Detected	07/26/2006	0.0002	0.0005	EPA 525.2	11104-28-2
PCB (aroclor 1232)	Not Detected	07/26/2006	0.0002	0.0005	EPA 525.2	11141-16-5
PCB (aroclor 1242)	Not Detected	07/26/2006	0.0002	0.0005	EPA 525.2	53469-21-9
PCB (aroclor 1248)	Not Detected	07/26/2006	0.0002	0.0005	EPA 525.2	12672-29-6
PCB (aroclor 1254)	Not Detected	07/26/2006	0.0002	0.0005	EPA 525.2	11097-69-1
PCB (aroclor 1260)	Not Detected	07/26/2006	0.0002	0.0005	EPA 525.2	11096-82-5
Polybrominated biphenyls	Not Detected	07/26/2006	0.001		EPA 525.2	59536-65-1
Prometon	Not Detected	07/26/2006	0.001		EPA 525.2	1610-18-0
Pronamide	Not Detected	07/26/2006	0.001		EPA 525.2	23950-58-5
Propachlor	Not Detected	07/26/2006	0.001		EPA 525.2	1918-16-7
Propazine	Not Detected	07/26/2006	0.001		EPA 525.2	139-40-2
Simazine	Not Detected	07/26/2006	0.0002	0.004	EPA 525.2	122-34-9
Tebuthiuron	Not Detected	07/26/2006	0.005		EPA 525.2	34014-18-1
Terbacil	Not Detected	07/26/2006	0.002		EPA 525.2	5902-51-2
Toxaphene	Not Detected	07/26/2006	0.002	0.003	EPA 525.2	8001-35-2
Trifluralin	Not Detected	07/26/2006	0.001		EPA 525.2	1582-09-8

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Kalamazoo County Human Services Dept.
3299 Gull Rd.
Nazareth, MI 49048
269 373-5200

CAS# : Chemical Abstract Service Registry Number
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Sample Number
LA94908

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Chlorinated Acid Herbicides						
Acifluorfen	Not Detected	07/05/2006	0.004		EPA 515.2	50594-66-6
Bentazon	Not Detected	07/05/2006	0.002		EPA 515.2	25057-89-0
DCPA, mono	Not Detected	07/05/2006	0.001		EPA 515.2	887-54-7
Dicamba	Not Detected	07/05/2006	0.002		EPA 515.2	1918-00-9
Dinoseb	Not Detected	07/05/2006	0.0003	0.007	EPA 515.2	88-85-7
Pentachlorophenol	Not Detected	07/05/2006	0.00006	0.001	EPA 515.2	87-86-5
Picloram	Not Detected	07/05/2006	0.002	0.5	EPA 515.2	1918-02-1
Pesticides Analysis by GC/MS						
4,4'-DDD	Not Detected	07/26/2006	0.001		EPA 525.2	72-54-8
4,4'-DDE	Not Detected	07/26/2006	0.001		EPA 525.2	72-55-9
4,4'-DDT	Not Detected	07/26/2006	0.001		EPA 525.2	50-29-3
Acetochlor	Not Detected	07/26/2006	0.001		EPA 525.2	34256-82-1
Alachlor	Not Detected	07/26/2006	0.0002	0.002	EPA 525.2	15972-60-8
Aldrin	Not Detected	07/26/2006	0.0004		EPA 525.2	309-00-2
alpha-Chlordane	Not Detected	07/26/2006	0.0002	0.002	EPA 525.2	5103-71-9
alpha-Endosulfan	Not Detected	07/26/2006	0.001		EPA 525.2	959-98-8
Ametryn	Not Detected	07/26/2006	0.001		EPA 525.2	834-12-8
Atrazine	Not Detected	07/26/2006	0.0002	0.003	EPA 525.2	1912-24-9
beta-Endosulfan	Not Detected	07/26/2006	0.001		EPA 525.2	33213-65-9
Bromacil	Not Detected	07/26/2006	0.002		EPA 525.2	314-40-9
Butachlor	Not Detected	07/26/2006	0.002		EPA 525.2	23184-66-9
Butylate	Not Detected	07/26/2006	0.002		EPA 525.2	2008-41-5
Carboxin	Not Detected	07/26/2006	0.002		EPA 525.2	5234-68-4
Chlorothalonil	Not Detected	07/26/2006	0.001		EPA 525.2	1897-45-6
Cycloate	Not Detected	07/26/2006	0.002		EPA 525.2	1134-23-2
Cyprazine	Not Detected	07/26/2006	0.001		EPA 525.2	22936-86-3
Dieldrin	Not Detected	07/26/2006	0.0005		EPA 525.2	60-57-1
Diphenamid	Not Detected	07/26/2006	0.001		EPA 525.2	957-51-7
Endrin	Not Detected	07/26/2006	0.00005	0.002	EPA 525.2	72-20-8
Endrin aldehyde	Not Detected	07/26/2006	0.002		EPA 525.2	7421-93-4
EPTC	Not Detected	07/26/2006	0.001		EPA 525.2	759-94-4
gamma-Chlordane	Not Detected	07/26/2006	0.0002	0.002	EPA 525.2	5103-74-2
Heptachlor	Not Detected	07/26/2006	0.00008	0.0004	EPA 525.2	76-44-8
Heptachlor epoxide	Not Detected	07/26/2006	0.00004	0.0002	EPA 525.2	1024-57-3
Hexachlorobenzene	Not Detected	07/26/2006	0.0001	0.001	EPA 525.2	118-74-1
Hexachlorocyclohexane (alpha-BHC)	Not Detected	07/26/2006	0.001		EPA 525.2	319-84-6
Hexachlorocyclohexane (beta-BHC)	Not Detected	07/26/2006	0.001		EPA 525.2	319-85-7
Hexachlorocyclohexane (delta-BHC)	Not Detected	07/26/2006	0.001		EPA 525.2	319-86-8
Hexachlorocyclopentadiene	Not Detected	07/26/2006	0.0002	0.05	EPA 525.2	77-47-4

CAS# : Chemical Abstract Service Registry Number
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Laboratory Contacts
Drinking Water Unit Mgr: Sandy Kerns
Systems Mgmt. Unit Mgr: George Krisztian

LABORATORY DETAIL REPORT

Client: *Kalamazoo Water Reclamation Plant*

KAR Project No. : *072424*

Date Reported : *06/29/07*

Project Desc. : *Analysis of 16 drinking water samples.*

Sample ID : *"Station 2, 07-166"*

Sampled By :

Sample Date : *6/15/2007*

Sample Time : *0920*

Date Received : *6/15/2007*

Sample Type : *SDWA*

KAR Sample No. : *072424-14*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep, metals	Completed		EPA 30xx,200.x	06/18/07	DBL	
Antimony, total, low level	<0.005	mg/L	EPA 200.8	06/25/07	PML	MCL*=0.006 mg/L
Arsenic, total, low level	0.001	mg/L	EPA 200.8	06/26/07	PML	MCL*=0.01 mg/L
Beryllium, total, low level	<0.001	mg/L	EPA 200.8	06/25/07	PML	MCL*=0.004 mg/L
Cadmium, total low level	<0.0002	mg/L	EPA 200.8	06/25/07	PML	MCL*=0.005 mg/L
Calcium, total	96.3	mg/L	EPA 200.7	06/21/07	DBL	
Chromium, total	<0.01	mg/L	EPA 200.8	06/25/07	PML	MCL*=0.1 mg/L
Cobalt total	<0.02	mg/L	EPA 200.8	06/25/07	PML	
Copper, total	0.120	mg/L	EPA 200.8	06/25/07	PML	MCL*=1.3 mg/L
Iron, total	0.58	mg/L	EPA 200.7	06/21/07	DBL	MCL*=[0.3 mg/L]
Lead, total	0.003	mg/L	EPA 200.8	06/25/07	PML	MCL*=0.015 mg/L
Magnesium, total	33.8	mg/L	EPA 200.7	06/21/07	DBL	
Manganese, total	0.097	mg/L	EPA 200.8	06/26/07	PML	MCL*=[0.05 mg/L]
Nickel, total	<0.02	mg/L	EPA 200.8	06/25/07	PML	MCL*=0.1 mg/L
Potassium, total	2.7	mg/L	EPA 200.7	06/21/07	DBL	
Selenium, total	<0.005	mg/L	EPA 200.8	06/25/07	PML	MCL*=0.05 mg/L
Silver, total	<0.005	mg/L	EPA 200.8	06/25/07	PML	MCL*=[0.1 mg/L]
Sodium, total	84.0	mg/L	EPA 200.7	06/21/07	DBL	MCL*=[20 mg/L]
Thallium, total, low level	<0.002	mg/L	EPA 200.8	06/25/07	PML	MCL*=0.002 mg/L
Zinc, total	0.081	mg/L	EPA 200.8	06/25/07	PML	MCL*=[5 mg/L]
Fluoride	0.30	mg/L	EPA 300.0A	06/18/07	MTW	MCL*=4 mg/L
Nitrogen, nitrate	<0.1	mg/L	EPA 353.2	06/15/07	MTW	MCL*=10 mg/L
Nitrogen, nitrite	<0.1	mg/L	EPA 353.2	06/15/07	MTW	MCL*=1 mg/L
Silica	13.4	mg/L	SM 4500-Si E	06/20/07	DMC	Result represents molybdate-reactive silica only.
Sulfate	47	mg/L	EPA 300.0A	06/18/07	MTW	MCL*=[250 mg/L]
Regulated/Unregulated VOC's	See below		EPA 524.2	06/20/07	JAR	
Prep, VOA	Completed		EPA 524.2	06/20/07	JAR	
1,1,1,2-Tetrachloroethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,1,1-Trichloroethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=200 ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,1,2-Trichloroethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=5 ug/L
1,1-Dichloroethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,1-Dichloroethene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=7 ug/L
1,1-Dichloropropene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,2,3-Trichlorobenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,2,3-Trichloropropane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,2,4-Trichlorobenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=70 ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,2-Dibromo-3-chloropropane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=0.2 ug/L
1,2-Dichlorobenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=600 ug/L

*MCL = Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

LABORATORY DETAIL REPORT

Client: *Kalamazoo Water Reclamation Plant*

KAR Project No. : *072424*

Date Reported : *06/29/07*

Project Desc. : *Analysis of 16 drinking water samples.*

Sample ID : *"Station 2, 07-166"*

Sampled By :

Sample Date : *6/15/2007*

Sample Time : *0920*

Date Received : *6/15/2007*

Sample Type : *SDWA*

KAR Sample No. : *072424-14*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
1,2-Dichlorobenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=600 ug/L
1,2-Dichloroethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=5 ug/L
1,2-Dichloropropane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=5 ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,3-Dichlorobenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,3-Dichloropropane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
1,4-Dichlorobenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=75 [5] ug/L
2,2-Dichloropropane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
2-Chlorotoluene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
4-Chlorotoluene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Benzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=5 ug/L
Bromobenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Bromochloromethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Bromodichloromethane	0.5	ug/L	EPA 524.2	06/20/07	JAR	
Bromoform	0.9	ug/L	EPA 524.2	06/20/07	JAR	
Bromomethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Carbon tetrachloride	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=5 ug/L
Chlorobenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=100 ug/L
Chloroethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Chloroform	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Chloromethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Cis-1,2-Dichloroethene	0.8	ug/L	EPA 524.2	06/20/07	JAR	MCL*=70 ug/L
Cis-1,3-Dichloropropene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Dibromochloromethane	1.1	ug/L	EPA 524.2	06/20/07	JAR	
Dibromomethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Dichlorodifluoromethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Ethylbenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=700 ug/L
Ethylene dibromide	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=0.05 ug/L
Hexachlorobutadiene by 524.2	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Isopropylbenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
M-and/or p-xylene	<1	ug/L	EPA 524.2	06/20/07	JAR	
Methylene chloride	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=5 ug/L
N-Butylbenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
N-Propylbenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Naphthalene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
O-Xylene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
P-Isopropyltoluene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Sec-Butylbenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Styrene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=100 ug/L
Tert-Butylbenzene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	

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LABORATORY DETAIL REPORT

Client: *Kalamazoo Water Reclamation Plant*

KAR Project No. : *072424*

Date Reported : *06/29/07*

Project Desc. : *Analysis of 16 drinking water samples.*

Sample ID : *"Station 2, 07-166"*

Sampled By :

Sample Date : *6/15/2007*

Sample Time : *0920*

Date Received : *6/15/2007*

Sample Type : *SDWA*

KAR Sample No. : *072424-14*

Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Tetrachloroethene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=5 ug/L
Toluene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=1000 ug/L
Trans-1,2-Dichloroethene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=100 ug/L
Trans-1,3-Dichloropropene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Trichloroethene	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=5 ug/L
Trichlorofluoromethane	<0.5	ug/L	EPA 524.2	06/20/07	JAR	
Vinyl chloride	<0.5	ug/L	EPA 524.2	06/20/07	JAR	MCL*=2 ug/L

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