

SOUTH PEEL (LAKEVIEW)
WATER SUPPLY SYSTEM

DRINKING WATER SURVEILLANCE
PROGRAM

ANNUAL REPORT 1988

FEBRUARY 1990



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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

SOUTH PEEL (LAKEVIEW) WATER TREATMENT PLANT
1988 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. Currently, 52 plants are being monitored.

The South Peel (Lakeview) Water Treatment Plant is a conventional treatment plant which treats water from Lake Ontario. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. This plant has a design capacity of 400 x 1000 m³/day and in conjunction with the Lorne Park Water Supply System serves a population of approximately 600,000.

Water samples from the raw, treated and three distribution sites were taken on a monthly basis. The South Peel (Lakeview) Water Treatment Plant was sampled for approximately 160 parameters monthly. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polynuclear Aromatic Hydrocarbons, Specific Pesticides and Volatiles). Chlorophenols and Specific Pesticides were analysed for in June and November only.

A summary of results is shown in Table 1.

Inorganic and Physical parameters were below any applicable health related ODWOs.

Of a total of approximately 110 Organic parameters tested for on a monthly basis, none exceeded health related guidelines.

During 1988 the DWSP sampling results indicated that the South Peel (Lakeview) Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE BY SCAN

SCAN	RAW			TREATED			SITE 2			SITE 3			SITE 4		
	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE
BACTERIOLOGICAL	43	43	100	43	8	18	36	4	11	16	2	12	48	8	16
CHEMISTRY (FLD)	36	36	100	70	70	100	120	120	100	43	43	100	123	122	99
CHEMISTRY (LAB)	246	212	86	245	174	71	360	296	82	142	118	83	393	326	82
METALS	285	169	59	285	149	52	466	275	59	184	108	58	517	294	56
CHLOROAROMATICS	154	0	0	154	0	0	126	0	0	56	0	0	154	0	0
CHLOROPHENOLS	6	0	0	0	0	0	.	.	.	.	.	.	.	.	.
PAH	204	1	0	204	0	0	.	.	.	.	.	.	.	.	.
PESTICIDES & PCB	375	0	0	375	0	0	309	0	0	128	0	0	351	0	0
PHENOLICS	12	3	25	12	3	25	.	.	.	.	.	.	.	.	.
SPECIFIC PESTICIDES	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLATILES	258	0	0	258	36	13	201	31	15	29	4	13	258	37	14
TOTAL	1647	464		1646	440		1618	726		598	275		1844	787	

NO HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAMSOUTH PEEL (LAKEVIEW) WATER TREATMENT PLANT
1988 ANNUAL REPORTINTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. Currently, 52 plants are being monitored.

The DWSP was initiated at the South Peel (Lakeview) Water Treatment Plant in 1984 as a test plant during the developmental period of DWSP. Annual reports were published for 1986 (ISBN 0-7729-2559-3) and 1987 (ISSN 0839-9069).

This report contains information and results for 1988.

PLANT DESCRIPTION

The South Peel (Lakeview) Water Treatment Plant is a conventional treatment plant which treats water from Lake Ontario. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. Sulphur Dioxide is used as a dechlorinator and ammoniation is used to produce a long-lasting

residual in the distribution system. This plant has a design capacity of $400 \times 1000 \text{ m}^3/\text{day}$ and daily flows for the day of sampling ranged from $118 \times 1000 \text{ m}^3/\text{day}$ to $384 \times 1000 \text{ m}^3/\text{day}$. The Lakeview Water Supply System in conjunction with the Lorne Park Water Supply System serves a population of approximately 600,000.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

METHODS

Water samples were obtained from five DWSP approved locations;

- i) Plant Raw - The water originated from the raw water intake prior to chlorination and was sampled through a copper sample line. The sample tap is located near the lowlift pumps.
- ii) Plant Treated - The water originated from the highlift pump discharge after addition of all treatment chemicals and was sampled through a copper sample line. The sample tap is located in the plant laboratory.
- iii) Distribution System - Site Two - This house is approximately 6.8 kilometers from the plant. Water was sampled through copper plumbing from the kitchen sink tap.

iv) Distribution System - Site Three - This house is approximately 36 kilometers from the plant. Water was sampled through copper plumbing from the kitchen sink tap.

v) Distribution System - Site Four - This house is approximately 31 kilometers from the plant. Water was sampled through copper plumbing from the kitchen sink tap. Sampling was discontinued at this site in April.

Sample lines in the plant were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

At the distribution system location two types of samples were obtained: a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service connection for a minimum of six hours. These samples are used to make an assessment of the amount by which the levels of inorganic compounds and metals may be changed on standing due to leaching from (or deposition on) the plumbing system. The only analyses carried out on standing samples therefore, are General Chemistry and Metals. The free flow sample represented fresh water from the distribution main that had been flowing at the sample tap for five minutes before the sample was taken .

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM

SITE LOCATION MAP

SOUTH PEEL (LAKEVIEW) WATER TREATMENT PLANT

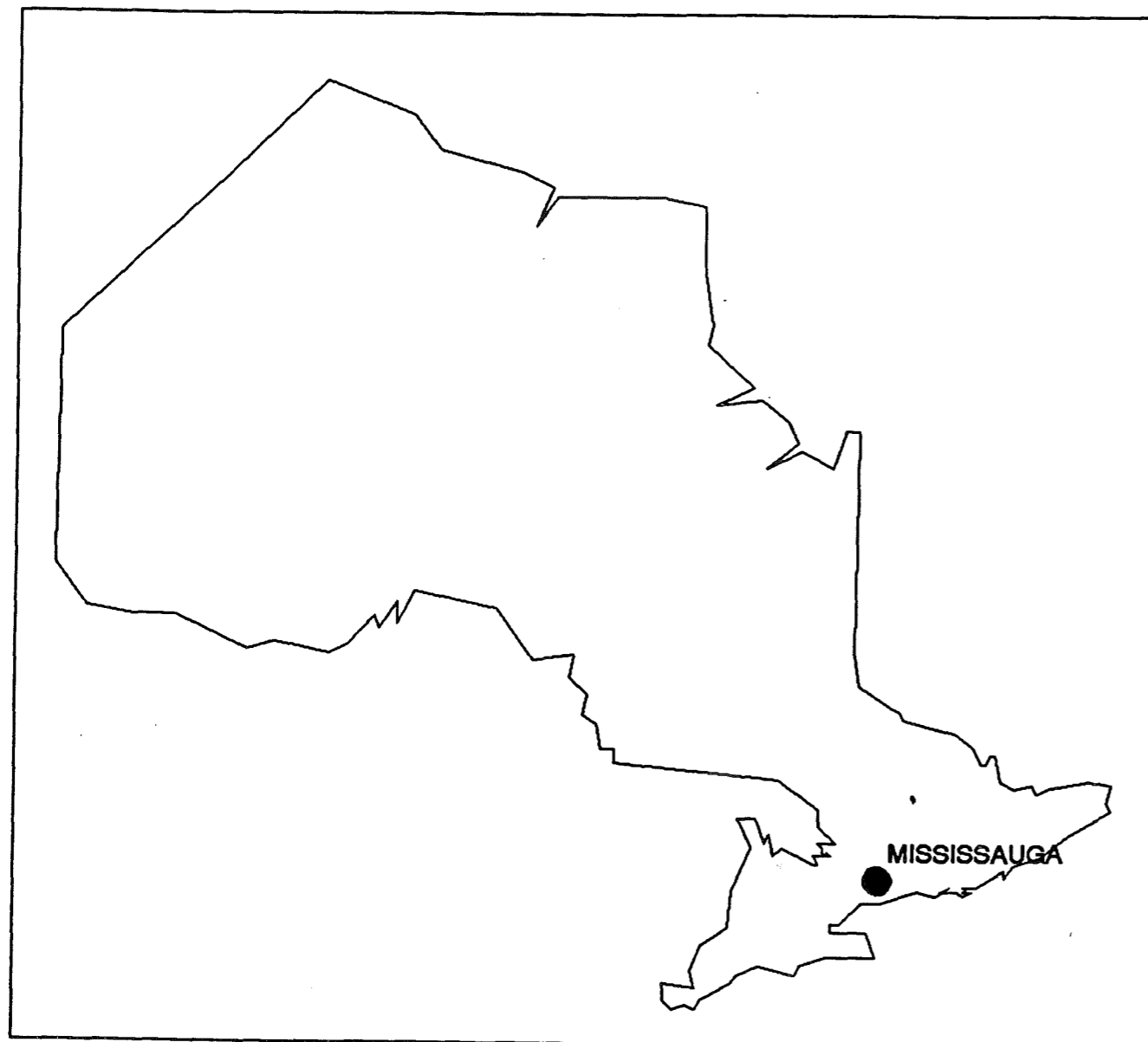


Figure 2
SOUTH PEEL (LAKEVIEW) WATER TREATMENT PLANT

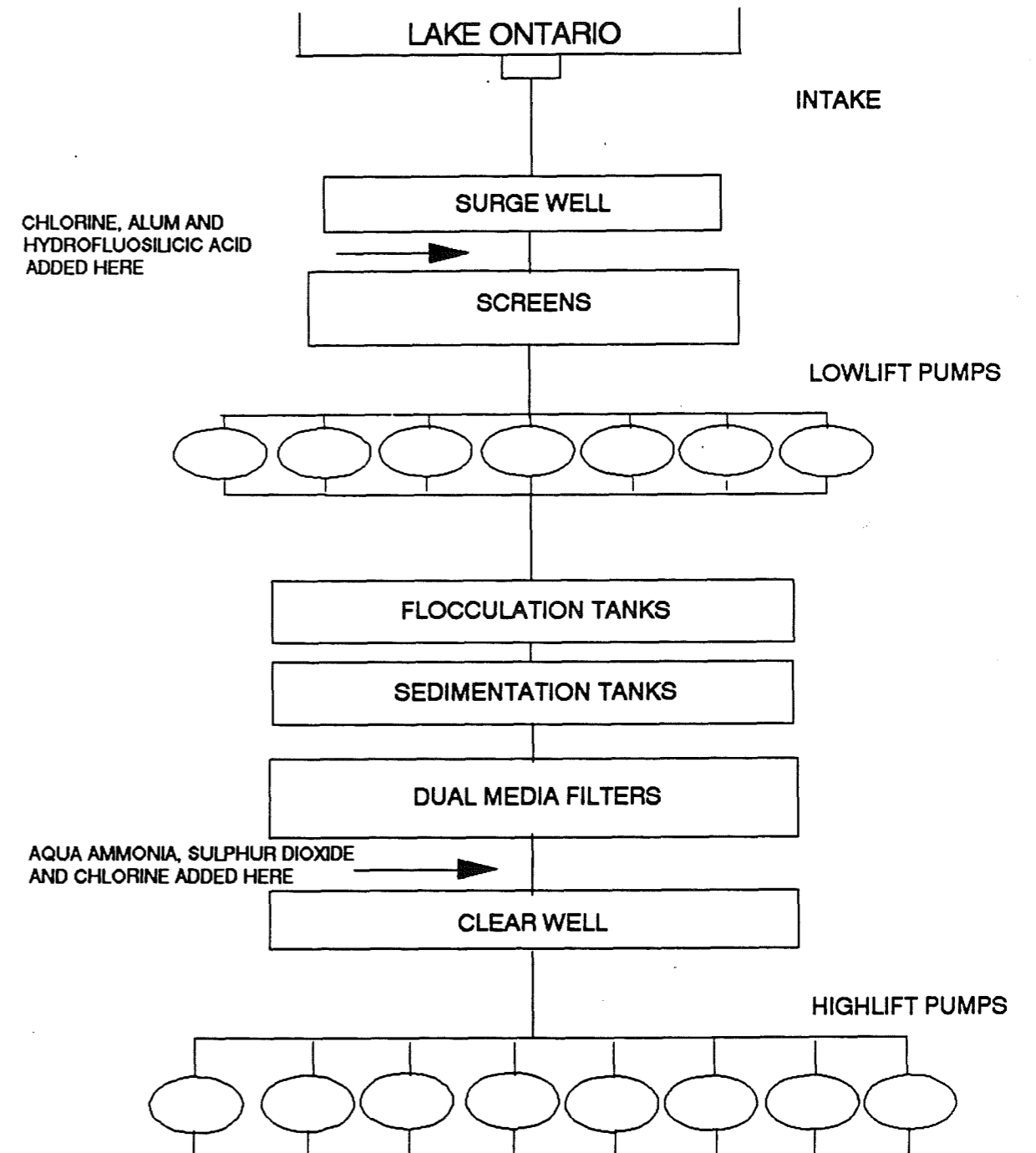


TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

SOUTH PEEL (LAKEVIEW) WATER SUPPLY SYSTEM

LOCATION: 920 EAST AVE
 MISSISSAUGA, ONTARIO
 L5E 1W6
 (416-278-8471)

SOURCE: RAW WATER SOURCE - LAKE ONTARIO

RATED CAPACITY: 400 (1000 M³/DAY)

OPERATION: MINISTRY OF THE ENVIRONMENT (MOE)

PLANT SUPERINTENDENT: R. TUFTS

MINISTRY REGION: CENTRAL

MOE OFFICER: J. TIMKO

<u>MUNICIPALITY SERVED</u>	<u>POPULATION</u>
BRAMPTON	125,000
MISSISSAUGA	325,000

Attempts were made to capture the same block of water at each sampling point by taking the retention time into consideration.

The retention time was calculated by dividing the volume of water between the two sampling points by the sample day flow. For example, if it was determined that the retention time within the plant was five hours then there would be a five hour interval between the raw and treated sampling. Similarly, if it was estimated that it took approximately one day for the water to travel from the plant to the distribution system site, this site would be sampled one day after the treated water from the plant.

Stringent DWSP sampling protocols were followed to ensure that all samples were taken in a uniform manner.

Sample day flow, treatment chemical dosages and Field Chemistry measurements such as Turbidity, Chlorine Residuals, pH and Temperature were recorded on the day of sampling and were entered on the DWSP data base as submitted.

RESULTS

The South Peel (Lakeview) Water Treatment Plant was sampled for approximately 160 parameters on a monthly basis.

The Specific Pesticides and Chlorophenols scans were sampled for

in June and November only. Polynuclear Aromatic Hydrocarbons and Phenolics are only analysed for in the raw and treated water at the plant. As a result of an unforeseen emergency the laboratory capacity was exceeded and analysis for volatiles could not be carried out when the samples were received. Since analysis for volatiles is no longer valid after four weeks of storage, volatile results for January, February or March are not available.

Table 3 contains information on sample day retention time, flow rate, treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analysed for by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analysed in the DWSP.

Associated guidelines and detection limits are also supplied on both tables. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters, these are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameters Listing System (PALIS) recently published (ISBN 0-7729-4461-x) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Although some of the parameters measured on DWSP may be present in the raw or treated water as a result of pollution, many of the compounds detected are naturally occurring or are treatment by-products.

Plant operational personnel address occurrences of taste and odour or biological water quality parameters. The DWSP does not assess these aspects of the water supply.

As stated under Results, traces do not indicate quantifiable values, as defined by established MOE Laboratory analytical reporting protocols. While they can be used in trend analysis or confirmation of the presence of a specific contaminant that is repeatedly detected at these levels, the occasional finding of a trace level of a contaminant is not considered to be significant.

DISCUSSION OF GUIDELINES AND LIMITS THEREFORE, IS ONLY CONDUCTED ON POSITIVE RESULTS.

Bacteriology

Positive results for the Bacteriology scan were present eight times in the treated water, eight times in the site 2 water, four times in the site 3 water and twice in the site 4 water. The positive parameters were Standard Plate Count, Total Coliform and/or Total Coliform Background.

Guidelines for bacteriological sampling and testing of a supply are developed to maintain a proper supervision of its bacteriological quality; the routine monitoring program usually requires the taking of multiple samples in a given system. Full interpretation of bacteriological quality cannot be made on the basis of single samples. Further, bacteriological limits were developed in acknowledgement that the presence of coliforms may be detected due to their non-uniform distribution throughout the distribution

system and the fact that their enumeration is subject to considerable variation. Routine bacteriological monitoring, as outlined in the ODWOs is carried out by the operating authority.

Inorganic and Physical Parameters

Laboratory and Field Chemistry

The results for Laboratory and Field Chemistry scans were below any applicable health related ODWOs.

The results for calcium, magnesium, hardness and sodium for the May Site 2 standing and free flow samples do not reflect the distribution system water quality. This location has a water softener and at the time of sampling the water was not diverted past the softener.

The Total Ammonium levels are high, not as a result of naturally occurring ammonia (eg. from sewage pollution) but from the ammonia added in the treatment process. The ammonia is added after filtration to combine with the chlorine added during post-chlorination to provide a long lasting combined chlorine residual in the distribution system. While the European Economic Community has an aesthetic guideline of .05 mg/L, the Maximum Admissible Concentration is .50 mg/L and is set as a result of the concern for potential sewage pollution and its detection.

The Langelier Index is used extensively in estimating the corrosion potential of water. An increasingly negative index indicates the increasing possibility of corrosion. It is considered sound engineering practice to maintain a slightly positive Langelier Index. The Langelier Index for Lakeview is consistently positive.

It is desirable that the Temperature of drinking water be less than 15°C; the palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of the delivered water may increase in the distribution system due to the warming effect of the soil in late summer and fall and/or as a result of higher temperatures in the source water. The desired ODWO was exceeded six times in the treated water and free flow distributed water.

As part of the treatment plant process, Hydrofluosilicic acid is added to the treated water (Table 3). Where fluoridation is practised, the fluoride concentration recommended in the ODWO is 1.2 mg/L, plus or minus 0.2 mg/L. Results indicate that the plant was not always successful in maintaining this level in the treated and distributed water.

Metals

The results reported for the Metal scan were below any applicable

health related ODWOs.

The levels of Copper and Iron are lower in the treated water than in the raw. This is a result of the treatment process, the addition of alum as a coagulant to the raw water and the resulting coagulation/settling process has been shown to reduce the levels of most metals. The levels for both metals increased slightly on passage through the distribution system.

Elevated levels of Copper and Zinc and minimal increases in the levels of Lead were detected in the standing samples as compared to the free flow samples from all distribution system locations. This occurred for Nickel only in the Site 2 sample and could reflect the presence of different plumbing components. This indicates that small quantities of these metals were leached from the household plumbing as the water stood overnight, although the Langelier Index indicates minimal potential for corrosion some metals will be leached in standing samples in most supplies.

At present there is no evidence that Aluminum is physiologically harmful and no health limit has been specified. The measure of residual Aluminum in the treated water is important to indicate efficiency of the treatment process. The ODWOs indicate that a useful guideline is to maintain a residual below 0.1 mg/L as Al in water leaving the plant to avoid problems in the distribution system. Aluminum values exceeded the ODWO operational guideline

five times in the treated waters.

Organic Parameters

Chloroaromatics

The results of the Chloroaromatics scan showed that no chloroaromatics were detected.

Chlorophenols

The results of the Chlorophenol scan showed that no Chlorophenols were detected.

Pesticides and PCB (Polychlorinated Biphenyl)

Results of the Pesticides and PCB scan showed that no PCBs were detected and that three pesticides were detected:

Alpha BHC

Lindane

Atrazine

There are several isomers of BHC (Benzene Hexachloride); gamma BHC is the active ingredient of the pesticide Lindane, while alpha BHC is the isomer predominantly found in surface waters in the Great Lakes basin.

Alpha BHC was detected at trace levels, eight times in the raw water, eight times in the treated water, nine times in the Site 2

water, five times in the Site 3 water and twice in the Site 4 water.

Lindane was detected at trace levels, twice in the raw water, six times in the treated water, six times in the Site 2 and twice in the Site 3 waters.

Atrazine was detected once at a trace level, in the Site 2 water.

Specific Pesticides

Results of the Specific Pesticide scan showed that no Specific Pesticides were detected.

Phenolics

The maximum desirable concentration of phenolic substances in drinking water is 2.0 ug/L. This limit has been set primarily to prevent the occurrence of undesirable tastes and odours, particularly in chlorinated water. Phenolics were detected in the May raw and treated water samples at 2.6 and 1.8 ug/L, the values could not be confirmed by reanalysis. 2.0 ug/L and 1.0 ug/L were detected in the November and December raw water samples and 1.2 ug/L and 1.0 ug/L were detected in the October and December treated water samples. Phenolics were detected at trace levels, four times in the raw water and the treated water. Phenolic compounds are present in the aquatic environment as a result of natural and/or industrial processes.

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Polynuclear Aromatic Hydrocarbons (PAH)

Results of the PAH scan show that two PAHs were detected:

Fluoranthene

Benzo(K)Fluoranthene

Fluoranthene was detected at a trace level, once in a raw water sample.

Benzo(K)fluoranthene was detected at 1.0 ng/L in the January raw water sample, subsequent development and confirmation of detection limits according to standard analytical protocol showed that the levels found were at or below the detection limit. It was also detected at a trace level in the April raw water.

Volatiles

Results of the Volatile scan show that ten parameters, other than Trihalomethanes (THMs), were detected:

Benzene

Toluene

Ethylbenzene

Meta and Para-Xylene

Ortho-Xylene

Styrene

Carbon Tetrachloride

Trichloroethylene

Tetrachloroethylene

1,4-Dichlorobenzene

Benzene was detected at trace levels, once in the treated water, twice in the Site 2 water and three times in the Site 3 water.

Toluene was detected at .55 ug/L in the November Site 2 water and at .80 ug/L in the August distribution system Site 3 water. These are below Health and Welfare Canada's aesthetic drinking water objective (AO) of 24.0 ug/L. Toluene was detected at trace levels, once in the raw water, twice in the treated water, four times at Site 2, six times at Site 3 and once at Site 4. The detection of toluene at low, trace levels is a laboratory artifact derived from the analytical methodology. The purge-and-trap analytical technique depends on the purging of the volatile organics in the water sample with helium gas onto a Tenax trapping column. The volatile materials are subsequently thermally desorbed, separated and quantified. Tenax, a toluene-like polymeric material, tends to decompose sporadically upon heating into toluene and other aromatic components (ethylbenzene and xylene) giving instrument blanks in the order of 0.05 ug/L.

The detected trace levels of Styrene are also considered to be laboratory artifacts due to the outgassing of monomeric styrene from the polystyrene shipping containers. The sporadic background levels from this source are in the order of 0.05 ug/L.

Ethylbenzene was detected at trace levels, twice in the raw water, four times in the treated water, six times in the Site 2 water and five times in the Site 3 water.

Meta and Para-Xylene are reported as one compound, M-Xylene. It was detected at trace levels, once in the treated water, three times in the Site 2 water and twice in the Site 3 water.

Ortho-Xylene (O-Xylene) was detected at trace levels, once in the raw water and treated water, four times in the Site 2 water and twice in the Site 3 water.

These volatiles are typically found on an occasional basis at other water supplies included on the DWSP usually at trace levels.

Carbon tetrachloride was detected at a trace level, once in the treated water.

Trichloroethylene was detected at trace levels, once in both the raw and treated water.

Tetrachloroethylene was detected at trace levels, once in the raw water, treated water and the Site 3 water and three times in the Site 2 water.

1,4-Dichlorobenzene was detected at 1.1 ug/L and 1.2 ug/L in the July and August samples of the distribution system Site 3 water respectively. Health and Welfare Canada's Maximum Acceptable Concentration (MAC) is 5.0 ug/L and the Aesthetic Objective (AO) is 1 ug/L. It was also detected at trace levels, five times in the Site 2 water and four times in the Site 3 water.

THMs are acknowledged to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs.

Chloroform, Chlorodibromomethane, Dichlorobromomethane and Total THMs were detected in all treated waters. Bromoform was detected at trace levels in all of the treated water samples, in seven distribution system Site 2 and Site 3 waters and in one Site 4 water. All Total THM occurrences, ranging from 16.1 to 35.3 ug/L were well below the ODWO of 350 ug/L.

THMs were detected at trace levels in several raw water samples.

Comparison with the DWSP analyses reported in the 1986 and 1987 annual reports show that raw and treated water quality has remained consistent. It has been noted that 1,4-Dichlorobenzene has been detected in the distribution system samples. Although most

occurrences have been at trace levels the consistent frequency may be significant. Ministry personnel are investigating.

CONCLUSIONS

The South Peel (Lakeview) Water Treatment Plant for the sample year of 1988 produced good quality water at the plant and this was maintained in the distribution system.

No health related guidelines, for organic or inorganic parameters were exceeded during 1986, 1987 or 1988.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS SAMPLE DAY CONDITIONS FOR 1988

SAMPLE DAY CONDITIONS			TREATMENT CHEMICAL DOSAGES (MG/L)				
DATE	RETENTION TIME(HRS)	FLOW (1000 M3)	PRE-CHLORINATION	COAGULATION	FLUORIDATION	TASTE & ODOUR	DECHLORINATION
			CHLORINE	ALUM LIQUID	HYDROFLUOSILICIC ACID	AMMONIUM ANHYDROUS	SULPHUR DIOXIDE
JAN 05	5.3	159.0	3.10	5.00	1.40	.17	.80
FEB 03	4.4	191.0	2.60	5.00	1.78	.23	.80
MAR 09	5.3	159.0	2.70	5.00	1.00	.21	.63
APR 07	4.4	191.0	3.00	10.00	1.07	.17	.92
MAY 03	5.3	159.0	4.10	5.00	1.15	.15	.94
JUN 08	3.2	320.0	2.90	5.00	1.00	.12	.44
JUL 06	2.4	341.0	3.50	5.00	1.06	.16	.39
AUG 04	6.7	127.0	3.90	5.00	.72	.22	.40
SEP 08	5.3	159.0	3.10	5.00	1.00	.20	.62
OCT 05	6.6	127.0	1.77	5.00	1.06	.15	.
NOV 09	7.1	118.0	2.30	10.00	1.25	.15	.51
DEC 07	5.3	159.1	2.20	3.00	1.01	.12	.45

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	RAW		TREATED		SITE2		SITE3		SITE4						
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE					
BACTERIOLOGICAL	AEROMONAS SP	.	.	.	.	2	0	0	.	.	.	.	.	.
	E. COLI P/A	.	.	.	.	2	0	0	.	.	.	.	.	.
	FECAL COLIFORM MF	12	12	0	.	.	.	.	.	.	.	.	.	.
	FECAL COLIFORM	.	.	.	.	2	0	0	.	.	.	.	.	.
	STANDRD PLATE CNT MF	7	7	0	12	6	0	9	5	0	9	4	0	4	2	0
	P/A BOTTLE	.	.	.	7	0	0	7	2	0	7	0	0	4	0	0
	STAPH AUREUS	.	.	.	.	.	.	2	0	0	.	.	.	.	.	.
	COLIFORM	.	.	.	.	.	.	2	0	0	.	.	.	.	.	.
	TOTAL COLIFORM MF	12	12	0	12	0	0	11	0	0	10	0	0	4	0	0
	T COLIFORM BCKGRD MF	12	12	0	12	2	0	11	1	0	10	0	0	4	0	0
*TOTAL SCAN BACTERIOLOGICAL		43	43	0	43	8	0	48	8	0	36	4	0	16	2	0
*TOTAL GROUP BACTERIOLOGICAL		43	43	0	43	8	0	48	8	0	36	4	0	16	2	0
CHEMISTRY (FLD)	FLD CHLORINE (COMB)	.	.	.	12	12	0	17	17	0	20	20	0	6	6	0
	FLD CHLORINE FREE	.	.	.	10	10	0	20	20	0	20	20	0	6	6	0
	FLD CHLORINE (TOTAL)	.	.	.	12	12	0	20	20	0	20	20	0	7	7	0
	FLD PH	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	FLD TEMPERATURE	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	FLD TURBIDITY	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
*TOTAL SCAN CHEMISTRY (FLD)		36	36	0	70	70	0	123	123	0	120	120	0	43	43	0
CHEMISTRY (LAB)	ALKALINITY	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE		RAW		TREATED		SITE2		SITE3		SITE4				
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE					
CHEMISTRY (LAB)	CALCIUM	12	12	0	12	12	0	22	20	0	20	20	0	8	8	0
	CYANIDE	12	0	0	12	0	0	11	0	0	10	0	0	4	0	1
	CHLORIDE	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	COLOUR	12	7	5	12	0	12	22	0	20	20	0	18	8	0	7
	CONDUCTIVITY	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	FLUORIDE	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	HARDNESS	12	12	0	12	12	0	22	20	0	20	20	0	8	8	0
	IONCAL	12	5	0	12	5	0	22	10	0	20	8	0	8	0	0
	LANGELIERS INDEX	12	12	0	11	11	0	20	20	0	20	20	0	8	8	0
	MAGNESIUM	12	12	0	12	12	0	22	20	0	20	20	0	8	8	0
	SODIUM	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	AMMONIUM TOTAL	12	10	2	12	12	0	22	22	0	20	17	3	8	8	0
	NITRITE	12	8	4	12	0	11	22	7	15	20	3	17	8	5	3
	TOTAL NITRATES	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	NITROGEN TOT KJELD	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	PH	12	12	0	12	12	0	22	22	0	20	20	0	8	8	0
	PHOSPHORUS FIL REACT	12	9	3	12	0	12	.	.	.	.	.	.	.	.	.
	PHOSPHORUS TOTAL	12	11	1	12	0	9	.	.	.	.	.	.	.	.	.
	TOTAL SOLIDS	1	1	0	1	1	0	.	.	.	2	2	0	2	2	0
	SULPHATE	5	5	0	5	5	0	10	10	0	8	8	0	.	.	.
	TURBIDITY	12	12	0	12	8	4	22	21	1	20	18	2	8	7	1
*TOTAL SCAN CHEMISTRY (LAB)		246	212	15	245	174	48	393	326	36	360	296	40	142	118	12
METALS	SILVER	12	0	7	12	0	7	22	0	12	20	0	9	8	0	4

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE		RAW		TREATED		SITE2		SITE3		SITE4				
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE			
PAH	PHENANTHRENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	ANTHRACENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	FLUORANTHENE	12	0	1	12	0	0	.	.	.	.	.	.	.	.
	PYRENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	BENZO(A)ANTHRACENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	CHRYSENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	DIMETH. BENZ(A)ANTHR	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	BENZO(E) PYRENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	BENZO(J) FLUORANTHEN	0	0	0	0	0	0	.	.	.	.	.	.	.	.
	BENZO(B) FLUORANTHEN	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	PERYLENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	BENZO(K) FLUORANTHEN	12	1	1	12	0	0	.	.	.	.	.	.	.	.
	BENZO(A) PYRENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	BENZO(G,H,I) PERYLEN	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	DIBENZO(A,H) ANTHRAC	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	INDENO(1,2,3-C,D) PY	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	BENZO(B) CHRYSENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	ANTHANTHRENE	0	0	0	0	0	0	.	.	.	.	.	.	.	.
	CORONENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.
	*TOTAL SCAN PAH		204	1	2	204	0	0	0	0	0	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	ALPHA BHC	11	0	8	11	0	8	11	0	9	9	0	5	4	0	2

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE		RAW		TREATED		SITE2		SITE3		SITE4				
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE			
PESTICIDES & PCB	BETA BHC	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	LINDANE	11	0	2	11	0	6	11	0	6	9	0	2	4	0	0
	ALPHA CHLORDANE	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	GAMMA CHLORDANE	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	DIELDRIN	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	METHOXYCHLOR	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	ENDOSULFAN I	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	ENDOSULFAN II	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	ENDRIN	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	ENDOSULFAN SULPHATE	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	HEPTACHLOR EPOXIDE	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	HEPTACHLOR	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	MIREX	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	OXYCHLORDANE	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	OPDDT	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	PCB	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	DDD	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	PPDDE	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	PPDDT	11	0	0	11	0	0	11	0	0	9	0	0	4	0	0
	AMETRINE	12	0	0	12	0	0	10	0	0	10	0	0	4	0	0
	ATRAZINE	12	0	0	12	0	0	10	0	1	10	0	0	4	0	0
	ATRATONE	12	0	0	12	0	0	10	0	0	10	0	0	4	0	0
	CYANAZINE	12	0	0	12	0	0	10	0	0	10	0	0	4	0	0
	DES ETHYL ATRAZINE	6	0	0	6	0	0	5	0	0	5	0	0	.	.	.
	DES ETHYL SIMAZINE	6	0	0	6	0	0	5	0	0	5	0	0	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE		RAW		TREATED		SITE2		SITE3		SITE4	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
VOLATILES	BENZENE	9	0 0	9	0 1	9	0 2	9	0 7	7	0 3	1	0 0
	TOLUENE	9	0 1	9	0 2	9	1 4	7	1 6	1	0 1	0 1	
	ETHYLBENZENE	9	0 2	9	0 4	9	0 6	7	0 5	1	0 0	0 0	
	P-XYLENE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	M-XYLENE	9	0 0	9	0 1	9	0 3	7	0 2		0 0	0 0	
	O-XYLENE	9	0 1	9	0 1	9	0 4	7	0 2		0 0	0 0	
	STYRENE	3	0 2	3	0 3	3	0 3	3	0 2				
	1,1 DICHLOROETHYLENE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	METHYLENE CHLORIDE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	T1,2DICHLOROETHYLENE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	1,1 DICHLOROETHANE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	CHLOROFORM	9	0 3	9	9 0	9	9 0	7	7 0	1	1 0	0 0	
	111, TRICHLOROETHANE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	1,2 DICHLOROETHANE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	CARBON TETRACHLORIDE	9	0 0	9	0 1	9	0 0	7	0 0	1	0 0	0 0	
	1,2 DICHLOROPROPANE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	TRICHLOROETHYLENE	9	0 1	9	0 1	9	0 0	7	0 0	1	0 0	0 0	
	DICHLOROBROMOMETHANE	9	0 2	9	9 0	9	9 0	7	7 0	1	1 0	0 0	
	112 TRICHLOROETHANE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	CHLORODIBROMOMETHANE	9	0 0	9	9 0	9	9 0	7	7 0	1	1 0	0 0	
	T-CHLOROETHYLENE	9	0 1	9	0 1	9	0 3	7	0 1	1	0 0	0 0	
	BROMOFORM	9	0 0	9	0 9	9	0 7	7	0 7	1	0 1	0 1	
	1122 T-CHLOROETHANE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	CHLOROBENZENE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	1,4 DICHLOROBENZENE	9	0 0	9	0 0	9	0 5	7	2 4	1	0 0	0 0	

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE		RAW		TREATED		SITE2		SITE3		SITE4	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
VOLATILES	1,3 DICHLOROBENZENE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	1,2 DICHLOROBENZENE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	TRIFLUOROCHLOROTOLUE	3	0 0	3	0 0	3	0 0	2	0 0	1	0 0	0 0	
	ETHYLENE DIBROMIDE	9	0 0	9	0 0	9	0 0	7	0 0	1	0 0	0 0	
	TOTL TRIHALOMETHANES	9	0 0	9	9 0	9	9 0	7	7 0	1	1 0	0 0	
	*TOTAL SCAN VOLATILES	258	0 13	258	36 24	258	37 37	201	31 32	4	2	0 0	
	*TOTAL GROUP ORGANIC	1037	4 29	1003	39 42	763	37 53	636	31 39	213	4 4	0 0	
TOTAL		1647	464 127	1646	440 191	1844	788 251	1618	726 206	598	275 68		

KEY TO TABLE 5 and 6

- A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
 - 1+. MAC for Total Trihalomethanes
 - 1*. MAC for Bacteriological Analyses
Poor water quality is indicated when :
 - total coliform counts > 0 < 5
 - P/A Bottle Test is present after 48 hours
 - Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
 - Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
 - Standard Plate Count should not exceed 500 organisms per ml at 35 °C within 48 hours
 2. Interim Maximum Acceptable Concentration (IMAC)
 3. Maximum Desirable Concentration (MDC)
 4. Aesthetic or Recommended Operational Guideline
 - hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.
- B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
 2. Proposed MAC
 3. Interim MAC
 4. Aesthetic Objective (AO) (for xylenes, the AO is a total)
- C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
 2. Tentative GV
 3. Aesthetic GV
- D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
 2. Suggested No-Adverse Effect Level (SNAEL)
 3. Lifetime Health Advisory
 4. EPA Ambient Water Quality Criteria
- F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
 2. Aesthetic Guideline Level
 3. Maximum Admissible Concentration (MADC)
- G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE
- H USSR MAXIMUM PERMISSIBLE CONCENTRATION
- I NEW YORK STATE AMBIENT WATER GUIDELINE
- N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:

1. Exclude the low-level data because of this uncertainty factor. However, studies of long-term environmental trends and modelling may be adversely affected by exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported qualified by the code "<T". Results quantified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. However the average of such data is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurable Amount
<T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!AW	No Data: Analysis Withdrawn
!CR	No Data: Could Not Confirm By Reanalysis
!CS	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IS	No Data: Insufficient Sample
!LA	No Data: Laboratory Accident

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JUL	.	.	.	.	.	.	.	0
STANDRD PLATE CNT MF (CT/ML)		DET'N LIMIT = 0		GUIDELINE = 500/ML (A1)				
JAN	410	0	.	1	.	0	.	.
FEB	10P	3	.	0	.	0	.	1AW
MAR	410	7	.	2	.	2	.	0
APR	460	11	.	6	.	2	.	78
MAY	280	0	.	.	.	.	.	5
JUN	58	3	.	4	.	.	.	0
JUL	98	0	.	0	.	.	.	27
AUG	460	19	.	1AW	.	.	.	5
SEP	.	2	.	.	.	.	.	1AW
OCT	.	1 <=>	.	0 <=>	.	.	.	13 T06
NOV	.	0 <=>	.	2 <=>	.	.	.	0 <=>
DEC	.	1 <=>	.	6 <=>	.	.	.	0 <=>
P/A BOTTLE ()		DET'N LIMIT = 0		GUIDELINE = 0 (A1*)				
JAN	.	0	.	0	.	0	.	.
FEB	.	.	.	0	.	0	.	0
MAR	.	0	.	0	.	0	.	0
APR	.	0	.	0	.	0	.	1
MAY	.	0	.	.	.	.	.	0
JUN	.	0	.	0	.	.	.	0
JUL	.	0	.	0	.	.	.	1
AUG	.	0	.	0	.	.	.	0

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
STAPH AUREUS ()		DET'N LIMIT = N/A		GUIDELINE = 0 (A1)				
APR	.	.	.	.	.	.	.	0
JUL	.	.	.	.	.	.	.	0
COLIFORM ()		DET'N LIMIT = N/A		GUIDELINE = 0 (A1)				
APR	.	.	.	.	.	.	.	0
JUL	.	.	.	.	.	.	.	0
TOTAL COLIFORM MF (CT/100ML)		DET'N LIMIT = 0		GUIDELINE = 5/100ML(A1)				
JAN	900	0	.	0	.	0	.	.
FEB	54	0	.	0	.	0	.	0
MAR	62 A3C	0	.	0	.	0	.	0
APR	212 A3C	0	.	0	.	0	.	0
MAY	28	0	.	.	.	.	.	0
JUN	4	0	.	0	.	.	.	0
JUL	54	0	.	0	.	.	.	0
AUG	168 A3C	0	.	0	.	.	.	0
SEP	1200	0	.	.	.	.	.	0
OCT	1280 A3C	0 T24	.	0 T24	.	.	.	0 T06
NOV	417 A3C	0 T24	.	0 T24	.	.	.	0 T24
DEC	72 T24	0 T24	.	0 T06	.	.	.	0 T24
T COLIFORM BCKGRD MF (CT/100ML)		DET'N LIMIT = 0		GUIDELINE = N/A				
JAN	2600	0	.	0	.	0	.	.
FEB	172	0	.	0	.	0	.	0

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
			MAR	2000	0	.	0	.
APR	1120	1	.	0	.	0	.	22
MAY	480	0	.	.	.	.	.	0
JUN	320	0	.	0	.	.	.	0
JUL	118	0	.	0	.	.	.	0
AUG	1800	2	.	0	.	.	.	0
SEP	4800	0	.	.	.	.	.	0
OCT	13000 A3C	0 T24	.	0 T24	.	.	.	0
NOV	7450 A3C	0 T24	.	0 T24	.	.	.	0 T06
DEC	280 T24	0 T24	.	0 T06	.	.	.	0 T24

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
			CHEMISTRY (FLD)					
FLD CHLORINE (COMB) ()		DET'N LIMIT = N/A		GUIDELINE = N/A				
JAN	.	1.200	.150	.500	.	.300	.	.
FEB	.	1.280	.500	.700	.	.400	.600	.600
MAR	.	.800	.300	.300	.400	.400	.100	.500
APR	.	1.050	.500	.400	.200	.400	.200	.200
MAY	.	.700	.	.	.	.	.100	.350
JUN	.	1.270	.600	.700	.	.	.200	.600
JUL	.	.950	.200	.400	.	.	.	.300
AUG	.	.900	.200	.200	.	.	.050	.050
SEP	.	1.090	.	.	.	.	.	.
OCT	.	.850	.150	.200	.	.	.	.100
NOV	.	1.000	.200	.400	.	.	.300	.300
DEC	.	1.000	.200	.500	.	.	.	.100
FLD CHLORINE FREE ()								
		DET'N LIMIT = N/A		GUIDELINE = N/A				
JAN	.	.050	.500	.100	.100	.200	.	.
FEB	.	.040	.100	.100	.	.200	.200	.400
MAR	.	.050	.100	.200	.	.200	.450	.350
APR	.	.100	.100	.400	.100	.300	.200	.400
MAY	.	.100	.	.	.	.	.100	.350
JUN	.	.080	.100	.100	.	.	.400	.100
JUL	.	.150	.300	.300	.	.	.200	.100
AUG	.	.	.300	.300	.	.	.	.150
SEP	.	.050	.	.	.	.	.000	.
OCT	.	.	.100	.200	.	.	.100	.100
NOV	.	.200	.100	.100	.	.	.200	.400

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	.	.100	.100	.100	.	.	.100	.100
FLD CHLORINE (TOTAL) ()		DET'N LIMIT = N/A		GUIDELINE = N/A				
JAN	.	1.250	.650	.600	.100	.500	.	.
FEB	.	1.320	.600	.800	.	.600	.800	1.000
MAR	.	.950	.400	.500	.400	.600	.600	.850
APR	.	1.150	.600	.800	.300	.700	.400	.600
MAY	.	.800	.	.	.	.	.200	.700
JUN	.	1.350	.700	.800	.	.	.600	.700
JUL	.	1.100	.500	.700	.	.	.200	.400
AUG	.	.900	.500	.500	.	.	.050	.200
SEP	.	1.140	.	.	.	.	.	.
OCT	.	.850	.250	.400	.	.	.100	.200
NOV	.	1.200	.300	.500	.	.	.500	.700
DEC	.	1.100	.300	.600	.	.	.100	.200
FLD PH (DMNSLESS)		DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)				
JAN	7.800	7.700	7.450	7.450	7.400	7.400	.	.
FEB	7.700	7.040	7.400	7.400	7.000	7.200	7.500	7.500
MAR	8.040	7.010	7.600	7.600	7.800	7.600	7.400	7.700
APR	8.040	7.100	7.400	7.400	7.600	7.600	7.500	7.500
MAY	7.900	7.000	.	.	.	.	7.300	7.300
JUN	8.100	7.190	7.500	7.600	.	.	7.200	7.200
JUL	8.200	7.350	7.400	7.400	.	.	7.600	7.400
AUG	8.100	7.200	7.400	7.400	.	.	7.400	7.500
SEP	7.730	7.100	.	.	.	.	7.030	6.870

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	7.960	7.320	7.600	7.400	.	.	7.400	7.400
NOV	7.700	7.000	7.400	7.400	.	.	7.500	7.400
DEC	7.800	7.400	7.600	7.600	.	.	7.400	7.800
FLD TEMPERATURE (DEG.C)		DET'N LIMIT = N/A		GUIDELINE = 15 (A1)				
JAN	15.000	14.000	14.500	6.000	18.000	12.000	.	.
FEB	5.000	4.000	14.000	7.500	18.000	10.000	8.500	6.500
MAR	6.000	6.000	13.000	4.500	18.000	14.000	18.000	5.500
APR	7.000	7.000	13.000	6.000	19.000	14.000	12.000	8.000
MAY	8.000	8.000	.	.	.	.	18.000	12.000
JUN	9.500	8.000	15.000	18.000	.	.	16.000	12.000
JUL	11.000	11.000	16.000	13.000	.	.	20.000	14.000
AUG	15.500	13.000	18.000	16.500	.	.	24.000	17.500
SEP	16.000	16.000	.	.	.	.	21.000	18.000
OCT	14.000	13.500	17.000	14.000	.	.	21.000	20.000
NOV	9.000	7.000	18.000	10.000	.	.	19.000	13.000
DEC	8.000	6.000	16.000	8.000	.	.	18.000	11.000
FLD TURBIDITY (FTU)		DET'N LIMIT = N/A		GUIDELINE = 1.0 (A1)				
JAN	4.100	.210	.260	.160	.110	.120	.	.
FEB	1.500	.170	.210	.200	.180	.200	.190	.280
MAR	2.700	.170	2.000	2.600	.200	.170	.190	.280
APR	34.000	.270	.280	.210	.190	.170	.140	.250
MAY	2.700	.270	.	.	.	.	.220	.250
JUN	3.200	.230	.270	.250	.	.	.360	.280
JUL	2.800	.210	.440	.370	.	.	.320	.390

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
AUG	3.600	.400	.340	.420	.	.	.360	.380
SEP	5.000	.210	.	.	.	.	.270	.270
OCT	2.800	.190	.300	.320	.	.	.480	.420
NOV	3.500	.250	.250	.300	.	.	.200	.210
DEC	1.900	.150	.350	.250	.	.	.280	.420

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
CHEMISTRY (LAB)								
ALKALINITY (MG/L)								
			DET'N LIMIT = .200		GUIDELINE = 30-500 (A4)			
JAN	106.000	93.400	96.500	98.500	97.400	95.900	.	.
FEB	102.800	93.400	93.500	94.400	96.300	96.600	94.200	94.400
MAR	104.200	96.300	96.700	95.700	96.700	97.100	96.100	94.900
APR	105.100	93.700	95.100	95.200	95.600	96.400	93.400	93.300
MAY	105.000	92.000	.	.	.	.	95.200	93.700
JUN	103.300	92.400	94.900	96.800	.	.	95.700	93.900
JUL	102.900	93.100	95.600	96.500	.	.	94.200	94.100
AUG	101.500	91.400	92.800	94.200	.	.	94.100	93.700
SEP	99.400	88.800	.	.	.	.	91.800	92.200
OCT	100.700	93.100	94.100	94.800	.	.	92.400	93.300
NOV	103.900	90.800	94.500	94.300	.	.	93.900	95.200
DEC	107.400	97.900	96.500	96.600	.	.	94.600	97.100
CALCIUM (MG/L)								
			DET'N LIMIT = .100		GUIDELINE = 100 (F2)			
JAN	44.600	44.200	44.000	43.200	47.600	45.800	.	.
FEB	41.200	41.200	43.400	41.200	43.000	42.200	42.600	41.800
MAR	42.000	42.800	38.200	38.400	44.200	42.800	33.000	40.000
APR	42.000	44.400	42.400	42.000	43.400	44.000	40.800	43.000
MAY	40.000	40.600	.	.	.	.	BDL	BDL
JUN	41.800	40.000	40.400	40.000	.	.	40.000	39.600
JUL	41.000	41.600	39.600	39.800	.	.	39.000	41.200
AUG	38.900	38.800	39.200	39.300	.	.	41.500	40.200
SEP	40.800	40.000	.	.	.	.	40.400	41.600
OCT	40.400	41.600	41.400	41.200	.	.	40.400	43.000
NOV	40.800	40.600	40.800	41.800	.	.	41.200	41.600

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	42.000	42.200	39.600	41.800	.	.	38.600	40.600
CYANIDE (MG/L)		DET'N LIMIT = 0.001		GUIDELINE = .200 (A1)				
JAN	BDL	BDL	.	BDL	.	BDL	.	.
FEB	BDL	BDL	.	BDL	.	.003 <T	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	.	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	BDL	.	.	.	BDL
AUG	BDL	BDL	.	BDL	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	BDL	.	.	.	BDL
NOV	BDL	BDL	.	BDL	.	.	.	BDL
DEC	BDL	BDL	.	BDL	.	.	.	BDL
CHLORIDE (MG/L)		DET'N LIMIT = .200		GUIDELINE = 250 (A3)				
JAN	27.200	30.300	29.000	28.800	30.700	30.000	.	.
FEB	25.700	28.500	27.300	27.000	29.200	28.800	28.800	29.200
MAR	32.600	35.100	30.100	29.300	32.600	31.300	31.800	30.900
APR	30.800	32.500	32.800	33.200	32.100	32.900	33.200	33.200
MAY	28.300	31.700	.	.	.	.	32.400	31.400
JUN	23.800	26.300	27.000	26.400	.	.	27.000	25.900
JUL	24.700	27.900	27.400	27.100	.	.	27.600	27.600
AUG	23.900	25.500	26.300	26.400	.	.	26.400	25.900
SEP	22.800	26.000	.	.	.	.	25.400	25.100

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	23.200	24.500	25.600	25.400	.	.	26.500	26.900
NOV	24.100	26.700	26.500	26.400	.	.	26.300	26.300
DEC	24.400	26.500	25.700	25.300	.	.	26.000	26.400
COLOUR (HZU)		DET'N LIMIT = .5		GUIDELINE = 5.0 (A3)				
JAN	3.000	.500 <T	1.000 <T	1.000 <T	1.500 <T	1.000 <T	.	.
FEB	2.500	.500 <T	BDL	BDL	.500 <T	BDL	BDL	BDL
MAR	3.000	1.000 <T	1.500 <T	1.000 <T	1.000 <T	1.000 <T	1.000 <T	1.000 <T
APR	1.000 <T	.500 <T	1.000 <T	1.000 <T	1.500 <T	1.000 <T	1.000 <T	1.500 <T
MAY	3.000	1.000 <T	.	.	.	.	2.000 <T	1.000 <T
JUN	2.500	1.500 <T	2.000 <T	1.500 <T	.	.	2.000 <T	1.500 <T
JUL	2.500	1.000 <T	1.000 <T	1.000 <T	.	.	1.000 <T	1.000 <T
AUG	3.000	1.000 <T	1.000 <T	1.000 <T	.	.	1.000 <T	1.500 <T
SEP	2.000 <T	1.000 <T	.	.	.	.	1.000 <T	1.000 <T
OCT	2.000 <T	1.000 <T	1.000 <T	1.000 <T	.	.	1.000 <T	1.000 <T
NOV	2.000 <T	.500 <T	.500 <T	.500 <T	.	.	.500 <T	.500 <T
DEC	2.000 <T	1.000 <T	1.000 <T	.500 <T	.	.	1.000 <T	1.000 <T
CONDUCTIVITY (UMHO/CM)		DET'N LIMIT = 1		GUIDELINE = 400 (F2)				
JAN	351	361	359	365	371	366	.	.
FEB	343	367	341	341	361	360	353	352
MAR	367	376	356	349	365	363	362	353
APR	355	365	361	363	362	362	359	365
MAY	356	363	.	.	.	.	382	378
JUN	332	337	341	346	.	.	348	346
JUL	330	337	338	337	.	.	334	335

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
AUG	330	336	337	340	.	.	336	336
SEP	327	334	.	.	.	.	333	335
OCT	331	332	335	334	.	.	335	340
NOV	337	347	345	344	.	.	343	345
DEC	349	355	342	341	.	.	337	345

FLUORIDE (MG/L)	DET'N LIMIT = .01				GUIDELINE = 2.400 (A1)			
JAN	.120	.940	.900	.900	1.160	1.100	.	.
FEB	.140	1.140	.960	.900	1.260	1.200	.920	.820
MAR	.130	.940	1.000	1.000	.950	.930	.940	.940
APR	.140	.990	.940	.930	1.050	1.010	.940	.950
MAY	.150	1.090	.	.	.	.	1.020	.850
JUN	.130	.830	.730	.700	.	.	.740	.710
JUL	.140	.990	.980	.980	.	.	.970	.970
AUG	.130	1.010	1.110	1.100	.	.	.850	.970
SEP	.120	1.140	.	.	.	.	.960	1.020
OCT	.140	1.160	1.040	1.040	.	.	.980	1.040
NOV	.140	1.160	1.080	1.080	.	.	1.040	1.060
DEC	.140	1.180	1.120	1.080	.	.	1.020	1.100

HARDNESS (MG/L)	DET'N LIMIT = .500				GUIDELINE = 80-100 (A4)			
JAN	151.000	149.000	148.000	145.000	157.000	153.000	.	.
FEB	140.000	140.000	145.000	138.000	144.000	142.000	143.000	140.000
MAR	142.000	143.000	131.000	131.000	146.000	142.000	110.000	135.000
APR	140.000	147.000	142.000	141.000	143.000	145.000	136.000	143.000
MAY	134.000	135.000	.	.	.	.	BDL	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	138.000	134.000	134.000	134.000	.	.	134.000	133.000
JUL	137.000	139.000	134.000	134.000	.	.	132.000	138.000
AUG	131.300	131.000	132.000	133.000	.	.	136.500	134.500
SEP	136.000	133.000	.	.	.	.	135.000	138.000
OCT	138.000	140.000	140.000	139.000	.	.	137.000	144.000
NOV	141.000	139.000	139.000	142.000	.	.	140.000	141.000
DEC	140.000	140.000	134.000	141.000	.	.	133.000	138.000

IONCAL (DMNSLESS)	DET'N LIMIT = N/A				GUIDELINE = N/A			
JAN	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.
FEB	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF
MAR	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF
APR	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.000 NAF
MAY	.000 NAF	.000 NAF	.	.	.	.	.000 NAF	.000 NAF
JUN	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.	.000 NAF	.000 NAF
JUL	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.	.000 NAF	.000 NAF
AUG	5.778	3.524	3.940	3.115	.	.	1.070	2.102
SEP	1.302	1.836	.	.	.	.	2.350	3.485
OCT	.941	3.737	3.570	3.170	.	.	2.485	5.836
NOV	.663	1.498	1.354	3.009	.	.	2.873	1.947
DEC	4.255	2.143	3.523	.058	.	.	2.036	2.271

LANGELIERS INDEX (DMNSLESS)	DET'N LIMIT = N/A				GUIDELINE = N/A			
JAN	.448 NAF	-.121 NAF	.481 NAF	.461 NAF	.468 NAF	.505 NAF	.	.
FEB	.401 NAF	.107 NAF	.373 NAF	.375 NAF	.280 NAF	.233 NAF	.317 NAF	.360 NAF
MAR	.383 NAF	.236 NAF	.181 NAF	.299 NAF	.283 NAF	.221 NAF	.114 NAF	.213 NAF

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
APR	.498 NAF	.381 NAF	.418 NAF	.394 NAF	.431 NAF	.450 NAF	.324 NAF	.286 NAF
MAY	.476 NAF	.225 NAF	.	.	.	.	.	.
JUN	.551 NAF	.403 NAF	.368 NAF	.442 NAF	.	.	.437 NAF	.425 NAF
JUL	.421 NAF	.143 NAF	.223 NAF	.229 NAF	.	.	.150 NAF	.214 NAF
AUG	.442	.335	.356	.433	.	.	.377	.361
SEP	.294	.146	.	.	.	.	.235	.239
OCT	.405	.374	.406	.407	.	.	.357	.398
NOV	.512	.021	.070	.140	.	.	.202	.232
DEC	.508	.389	.367	.381	.	.	.388	.410

MAGNESIUM (MG/L)		DET'N LIMIT = .050		GUIDELINE = 30 (F2)				
JAN	9.500	9.300	9.300	9.100	9.300	9.400	.	.
FEB	8.900	9.100	8.800	8.600	8.900	8.900	9.000	8.700
MAR	8.900	8.900	8.700	8.600	8.700	8.600	6.600	8.500
APR	8.600	8.900	8.700	8.800	8.500	8.500	8.400	8.600
MAY	8.200	8.200	.	.	.	.	BDL	BDL
JUN	8.100	8.200	8.200	8.200	.	.	8.200	8.200
JUL	8.400	8.600	8.400	8.500	.	.	8.500	8.500
AUG	8.330	8.200	8.200	8.400	.	.	8.000	8.300
SEP	8.300	8.100	.	.	.	.	8.300	8.100
OCT	8.900	8.700	8.900	8.800	.	.	8.700	8.900
NOV	9.400	9.300	9.100	9.100	.	.	9.000	9.000
DEC	8.600	8.400	8.600	8.800	.	.	8.700	9.000

SODIUM (MG/L)		DET'N LIMIT = .200		GUIDELINE = 200 (C3)				
JAN	15.200	15.000	15.200	15.000	15.800	15.000	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
FEB	14.800	14.200	14.400	13.200	14.400	14.200	13.600	13.600
MAR	17.600	17.600	14.800	14.600	16.000	15.800	27.200	15.000
APR	16.000	17.400	17.000	16.800	16.800	16.800	18.200	17.400
MAY	15.000	15.000	.	.	.	.	83.200 ARW	82.000 ARW
JUN	12.200	12.200	12.800	12.800	.	.	13.200	13.000
JUL	13.200	13.400	13.600	13.800	.	.	14.000	13.200
AUG	12.000	12.200	12.400	13.000	.	.	13.800	12.200
SEP	12.200	12.600	.	.	.	.	12.800	12.600
OCT	12.600	12.400	13.400	13.400	.	.	13.800	14.000
NOV	12.600	12.600	13.000	12.800	.	.	13.200	12.800
DEC	13.000	12.600	13.600	13.200	.	.	13.800	13.600

AMMONIUM TOTAL (MG/L)		DET'N LIMIT = 0.002		GUIDELINE = .05 (F2)				
JAN	.040	.134	.126	.128	.066	.068	.	.
FEB	.012	.158	.100	.104	.136	.110	.140	.138
MAR	.052	.204	.044	.024	.158	.144	.218	.220
APR	.016	.160	.096	.106	.114	.094	.116	.170
MAY	.158	.246	.	.	.	.	.060	.084
JUN	.044	.062	.116	.108	.	.	.174	.128
JUL	.142	.010	.052	.010	.	.	.054	.046
AUG	.006 <T	.090	.078	.058	.	.	.022	.036
SEP	.016	.158	.	.	.	.	.146	.126
OCT	.026	.138	.020	.006 <T	.	.	.010	.012
NOV	.004 <T	.094	.004 <T	.008 <T	.	.	.078	.084
DEC	.012	.062	.038	.028	.	.	.052	.034

NITRITE (MG/L)		DET'N LIMIT = 0.001		GUIDELINE = 1.000 (A1)				

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JAN	.005	.001 <T	.004 <T	.002 <T	.020	.005	.	.
FEB	.004 <T	.001 <T	.005	.003 <T	.029	.001 <T	.003 <T	.004 <T
MAR	.007	.001 <T	.002 <T	.001 <T	.010	.003 <T	.009	.003 <T
APR	.056	.001 <T	.005	.002 <T	.009	.002 <T	.005	.003 <T
MAY	.069	.001 <T	.	.	.	.	.009	.004 <T
JUN	.003 <T	.001 <T	.002 <T	.001 <T	.	.	.004 <T	.002 <T
JUL	.017	.001 <T	.003 <T	.001 <T	.	.	.004 <T	.002 <T
AUG	.001 <T	.002 <T	.004 <T	.001 <T	.	.	.004 <T	.002 <T
SEP	.008	BDL	.	.	.	.	.007	.002 <T
OCT	.006	.003 <T	.004 <T	.003 <T	.	.	.004 <T	.003 <T
NOV	.005	.001 <T	.001 <T	.007	.	.	.015	.007
DEC	.002 <T	.001 <T	.003 <T	.002 <T	.	.	.006	.002 <T

TOTAL NITRATES (MG/L)		DET'N LIMIT = .020		GUIDELINE = 10.000 (A1)				
JAN	.590	.600	.565	.550	.635	.590	.	.
FEB	.445	.465	.430	.415	.480	.435	.525	.430
MAR	.470	.460	.430	.420	.450	.425	.505	.420
APR	.565	.500	.515	.510	.460	.460	.505	.495
MAY	.510	.455	.	.	.	.	.485	.455
JUN	.365	.355	.365	.360	.	.	.390	.390
JUL	.410	.390	.395	.360	.	.	.390	.380
AUG	.390	.305	.290	.270	.	.	.290	.285
SEP	.310	.290	.	.	.	.	.310	.330
OCT	.285	.280	.315	.290	.	.	.330	.325
NOV	.470	.470	.445	.435	.	.	.465	.460
DEC	.440	.455	.430	.430	.	.	.430	.445

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
NITROGEN TOT KJELD (MG/L)		DET'N LIMIT = .020		GUIDELINE = N/A				
JAN	.260	.270	.380	.340	.240	.300	.	.
FEB	.220	.300	.260	.250	.380	.300	.370	.290
MAR	.300	.330	.240	.220	.360	.280	.560	.450
APR	.360	.400	.340	.340	.390	.360	.320	.510
MAY	.390	.460	.	.	.	.	.490	.380
JUN	.270	.230	.300	.320	.	.	.480	.310
JUL	.450	.190	.260	.190	.	.	.390	.260
AUG	.260	.250	.240	.230	.	.	.190	.210
SEP	.300	.340	.	.	.	.	.380	.310
OCT	.220	.270	.180	.170	.	.	.170	.190
NOV	.280	.250	.160	.150	.	.	.250	.270
DEC	.230	.230	.220	.190	.	.	.230	.200

PH (DMNSLESS)		DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)				
JAN	8.220	7.710	8.300	8.280	8.250	8.310	.	.
FEB	8.220	7.970	8.210	8.230	8.110	8.070	8.160	8.210
MAR	8.190	8.070	8.060	8.180	8.100	8.050	8.060	8.080
APR	8.300	8.210	8.260	8.240	8.260	8.270	8.190	8.130
MAY	8.300	8.100	.	.	.	.	8.200	8.190
JUN	8.360	8.280	8.230	8.300	.	.	8.300	8.300
JUL	8.240	8.000	8.090	8.090	.	.	8.030	8.070
AUG	8.290	8.230	8.240	8.310	.	.	8.230	8.230
SEP	8.130	8.040	.	.	.	.	8.110	8.100
OCT	8.240	8.230	8.260	8.260	.	.	8.230	8.240
NOV	8.330	7.900	7.930	7.990	.	.	8.060	8.080
DEC	8.300	8.220	8.230	8.220	.	.	8.270	8.260

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PHOSPHORUS FIL REACT (MG/L)								
			DET'N LIMIT = .0005		GUIDELINE = N/A			
JAN	.006	.002 <T	.	.	.	.	.	.
FEB	.003	.002 <T	.	.	.	.	.	.
MAR	.006	.000 <T	.	.	.	.	.	.
APR	.011	.001 <T	.	.	.	.	.	.
MAY	.008	.000 <T	.	.	.	.	.	.
JUN	.002	.000 <T	.	.	.	.	.	.
JUL	.006	.001 <T	.	.	.	.	.	.
AUG	.008	.001 <T	.	.	.	.	.	.
SEP	.001 <T	.001 <T	.	.	.	.	.	.
OCT	.004	.002 <T	.	.	.	.	.	.
NOV	.001 <T	.001 <T	.	.	.	.	.	.
DEC	.001 <T	.001 <T	.	.	.	.	.	.
PHOSPHORUS TOTAL (MG/L)								
			DET'N LIMIT = .002		GUIDELINE = .40 (F2)			
JAN	.017	BDL	.	.	.	.	.	.
FEB	.011	.002 <T	.	.	.	.	.	.
MAR	.018	.004 <T	.	.	.	.	.	.
APR	.059	.002 <T	.	.	.	.	.	.
MAY	.021	.002 <T	.	.	.	.	.	.
JUN	.013	.003 <T	.	.	.	.	.	.
JUL	.022	.005 <T	.	.	.	.	.	.
AUG	.018	.004 <T	.	.	.	.	.	.
SEP	.014	BDL	.	.	.	.	.	.
OCT	.014	.005 <T	.	.	.	.	.	.
NOV	.013	BDL	.	.	.	.	.	.
DEC	.007 <T	.002 <T	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
TOTAL SOLIDS (MG/L)								
			DET'N LIMIT = 1.		GUIDELINE = 500 (A3)			
JAN	227 CRO	242 CRO	233 CRO	237 CRO	241 CRO	238 CRO	.	.
SULPHATE ()								
			DET'N LIMIT = .200		GUIDELINE = 500. (A3)			
AUG	28.760	33.130	32.770	32.370	.	.	31.140	31.940
SEP	26.710	30.460	.	.	.	.	29.630	29.450
OCT	27.800	31.100	30.700	30.100	.	.	30.400	31.100
NOV	26.130	33.370	30.610	30.350	.	.	30.230	30.570
DEC	31.000	26.000	34.000	34.000	.	.	31.500	34.500
TURBIDITY (FTU)								
			DET'N LIMIT = .02		GUIDELINE = 1.00 (A1)			
JAN	4.000	.120	.200	.100	.180	.090 <T	.	.
FEB	1.350	.050 <T	.900	.360	.550	.130	.200	.060
MAR	2.600	.060	.160	.090	.140	.080	.210	.120
APR	34.000	.140	.510	.180	.280	.120	.130	.250
MAY	1.540	.090 <T	.	.	.	.	.140	.210
JUN	1.390	.150	.240	.330	.	.	.240	.210
JUL	2.400	.160	.790	.440	.	.	.650	.440
AUG	1.860	.150	.370	.290	.	.	.500	.260
SEP	4.800	.600	.	.	.	.	.430	.300
OCT	2.300	.290	.470	.310	.	.	.410	.450
NOV	4.200	.220 <T	.190 <T	.200 <T	.	.	.310	.300
DEC	1.900	.220 <T	.360	.290	.	.	.240 <T	.310

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
METALS								
SILVER (UG/L)	DET'N LIMIT = .020			GUIDELINE = 50. (A1)				
JAN	.030 <T	.030 <T	.070 <T	.020 <T	.030 <T	.020 <T	.	.
FEB	.110 <T	.040 <T	.020 <T	BDL	BDL	BDL	BDL	BDL
MAR	.070 <T	.100 <T	.070 <T	.060 <T	.040 <T	.050 <T	.050 <T	.040 <T
APR	BDL	BDL	BDL	BDL	BDL	BDL	.060 <T	BDL
MAY	.030 <T	.040 <T	.	.	.	.	BDL	.030 <T
JUN	.030 <T	.050 <T	.050 <T	.040 <T	.	.	.040 <T	.030 <T
JUL	.030 <T	BDL	BDL	BDL	.	.	BDL	.100 <T
AUG	BDL	BDL	BDL	BDL	.	.	BDL	BDL
SEP	BDL	.190 <T	.	.	.	.	.060 <T	.080 <T
OCT	BDL	BDL	BDL	BDL	.	.	BDL	BDL
NOV	BDL	BDL	BDL	.110 <T	.	.	.070 <T	.100 <T
DEC	.030 <T	.040 <T	.030 <T	BDL	.	.	BDL	.050 <T
ALUMINUM (UG/L)	DET'N LIMIT = .050			GUIDELINE = 100.(A4)				
JAN	63.000	42.000	54.000	50.000	46.000	43.000	.	.
FEB	31.000	53.000	53.000	55.000	52.000	52.000	53.000	52.000
MAR	67.000	48.000	53.000	54.000	44.000	44.000	41.000	46.000
APR	370.000	48.000	68.000	59.000	54.000	52.000	46.000	58.000
MAY	48.000	65.000	.	.	.	.	22.000	26.000
JUN	31.000	74.000	98.000	95.000	.	.	67.000	62.000
JUL	47.000	80.000	140.000	150.000	.	.	94.000	110.000
AUG	56.000	66.000	100.000	110.000	.	.	92.000	72.000
SEP	81.000	240.000	.	.	.	.	77.000	79.000
OCT	32.000	79.000	110.000	130.000	.	.	69.000	89.000
NOV	60.000	57.000	68.000	57.000	.	.	56.000	53.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	24.000	54.000	73.000	78.000	.	.	51.000	67.000
ARSENIC (UG/L)								
DET'N LIMIT = 0.050			GUIDELINE = 50.0 (A1)					
JAN	1AW	1AW	1AW	1AW	1AW	1AW	.	.
FEB	.880 <T	.320 <T	.320 <T	.350 <T	.370 <T	.370 <T	.270 <T	.270 <T
MAR	.800 <T	.470 <T	.470 <T	.510 <T	.340 <T	.420 <T	.280 <T	.340 <T
APR	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MAY	.880 <T	.350 <T	.	.	.	.	.350 <T	.200 <T
JUN	.740 <T	.370 <T	.420 <T	.390 <T	.	.	.310 <T	.280 <T
JUL	1.600	1.000 <T	1.100	1.300	.	.	1.100	1.200
AUG	.810 <T	.460 <T	.620 <T	.570 <T	.	.	.430 <T	.520 <T
SEP	.860 <T	1.100	.	.	.	.	.800 <T	.840 <T
OCT	.990 <T	1.000 <T	1.200	1.000 <T	.	.	.710 <T	.900 <T
NOV	1.600	.370 <T	1.200	.310 <T	.	.	.320 <T	.240 <T
DEC	.490 <T	.150 <T	.320 <T	.400 <T	.	.	.060 <T	.950 <T
BARIUM (UG/L)	DET'N LIMIT = 0.020			GUIDELINE = 1000. (A1)				
JAN	27.000	25.000	24.000	25.000	25.000	24.000	.	.
FEB	24.000	22.000	22.000	22.000	23.000	24.000	22.000	23.000
MAR	24.000	23.000	22.000	22.000	23.000	21.000	17.000	22.000
APR	24.000	21.000	21.000	21.000	23.000	21.000	21.000	22.000
MAY	25.000	23.000	.	.	.	.	.230	.080 <T
JUN	24.000	23.000	23.000	23.000	.	.	23.000	24.000
JUL	25.000	25.000	25.000	25.000	.	.	25.000	25.000
AUG	23.000	23.000	24.000	24.000	.	.	22.000	22.000
SEP	24.000	24.000	21.000	24.000

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DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	25.000	26.000	26.000	26.000	.	.	23.000	27.000
NOV	27.000	25.000	25.000	23.000	.	.	21.000	23.000
DEC	24.000	23.000	24.000	24.000	.	.	21.000	25.000

BORON (UG/L)								
			DET'N LIMIT = 0.200		GUIDELINE = 5000. (A1)			
JAN	25.000	IAW	26.000	26.000	26.000	26.000	.	.
FEB	23.000	26.000	25.000	23.000	23.000	26.000	29.000	31.000
MAR	27.000	26.000	25.000	25.000	28.000	26.000	27.000	26.000
APR	26.000	27.000	26.000	26.000	27.000	26.000	28.000	26.000
MAY	30.000	30.000	.	.	.	.	31.000	26.000
JUN	27.000	27.000	26.000	29.000	.	.	25.000	28.000
JUL	27.000	27.000	32.000	29.000	.	.	27.000	30.000
AUG	25.000	27.000	25.000	25.000	.	.	25.000	39.000
SEP	26.000	28.000	.	.	.	.	31.000	30.000
OCT	31.000	52.000	54.000	56.000	.	.	34.000	45.000
NOV	30.000	30.000	30.000	27.000	.	.	27.000	33.000
DEC	26.000	27.000	30.000	43.000	.	.	30.000	31.000

BERYLLIUM (UG/L)								
			DET'N LIMIT = 0.010		GUIDELINE = .20 (H)			
JAN	BDL	BDL	BDL	BDL	BDL	BDL	.	.
FEB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MAR	.020 <T	.020 <T	.030 <T	.020 <T	BDL	.010 <T	.010 <T	BDL
APR	.050 <T	.030 <T	BDL	BDL	.020 <T	BDL	.030 <T	.030 <T
MAY	BDL	BDL	BDL	BDL
JUN	BDL	BDL	BDL	BDL	.	.	.030 <T	BDL
JUL	.060 <T	.050 <T	.020 <T	.040 <T	.	.	.060 <T	.070 <T

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DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
AUG	BDL	BDL	BDL	BDL	.	.	BDL	BDL
SEP	BDL	.090 <T	.	.	.	.	.050 <T	.020 <T
OCT	.040 <T	.050 <T	.140 <T	.100 <T	.	.	.030 <T	.030 <T
NOV	.030 <T	.050 <T	.100 <T	.080 <T	.	.	.060 <T	.020 <T
DEC	.080 <T	BDL	BDL	BDL	.	.	BDL	BDL

CADMIUM (UG/L)								
			DET'N LIMIT = 0.050		GUIDELINE = 5.000 (A1)			
JAN	BDL	BDL	.070 <T	.130 <T	BDL	BDL	.	.
FEB	BDL	BDL	BDL	BDL	.200 <T	BDL	BDL	BDL
MAR	.060 <T	.050 <T	BDL	BDL	.070 <T	BDL	.070 <T	.080 <T
APR	.060 <T	.080 <T	.110 <T	BDL	.080 <T	BDL	.190 <T	.180 <T
MAY	.070 <T	BDL	.	.	.	.	.100 <T	BDL
JUN	BDL	BDL	BDL	BDL	.	.	BDL	BDL
JUL	BDL	.070 <T	.100 <T	BDL	.	.	.130 <T	.210 <T
AUG	BDL	BDL	BDL	BDL	.	.	BDL	.160 <T
SEP	BDL	.130 <T	.	.	.	.	.070 <T	.060 <T
OCT	.060 <T	BDL	BDL	BDL	.	.	.090 <T	.060 <T
NOV	BDL	BDL	BDL	BDL	.	.	.090 <T	BDL
DEC	.110 <T	BDL	BDL	BDL	.	.	.060 <T	BDL

COBALT (UG/L)								
			DET'N LIMIT = 0.020		GUIDELINE = 1000 (H)			
JAN	.110 <T	.060 <T	.070 <T	.060 <T	.060 <T	.030 <T	.	.
FEB	.080 <T	.030 <T	.070 <T	.060 <T	.100 <T	.040 <T	.430 <T	.050 <T
MAR	.180 <T	.120 <T	.130 <T	.090 <T	.130 <T	.140 <T	.200 <T	.080 <T
APR	.520 <T	.170 <T	.090 <T	.070 <T	.110 <T	.110 <T	.080 <T	.110 <T
MAY	.120 <T	.090 <T110 <T	.080 <T

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DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	.090 <T	.110 <T	.100 <T	.080 <T	.	.	.080 <T	.110 <T
JUL	.150 <T	.110 <T	.090 <T	.080 <T	.	.	.120 <T	.140 <T
AUG	.240 <T	.110 <T	.160 <T	.180 <T	.	.	.120 <T	.180 <T
SEP	.250 <T	.190 <T	.	.	.	.	.120 <T	.140 <T
OCT	.250 <T	.240 <T	.210 <T	.220 <T	.	.	.210 <T	.200 <T
NOV	BDL	BDL	BDL	BDL	.	.	BDL	BDL
DEC	.140 <T	.100 <T	.140 <T	.120 <T	.	.	.090	.270 <T
CHROMIUM (UG/L)		DET'N LIMIT = 0.100		GUIDELINE = 50. (A1)				
JAN	.620 <T	.680 <T	.620 <T	.680 <T	.660 <T	.640 <T	.	.
FEB	.580 <T	.620 <T	.770 <T	.640 <T	9.200	.690 <T	.740 <T	.700 <T
MAR	.700 <T	.590 <T	.660 <T	.620 <T	.700 <T	.640 <T	.670 <T	.730 <T
APR	1.200	.680 <T	.680 <T	.730 <T	.690 <T	.650 <T	.800 <T	.780 <T
MAY	1.200	.960 <T	.	.	.	.	1.400	.650 <T
JUN	.930 <T	.780 <T	.750 <T	.700 <T	.	.	.770 <T	.890 <T
JUL	.820 <T	.810 <T	1.300	.800 <T	.	.	.830 <T	.850 <T
AUG	.540 <T	.480 <T	.520 <T	.560 <T	.	.	.540 <T	2.400
SEP	.610 <T	.680 <T	.	.	.	.	.910 <T	.670 <T
OCT	.850 <T	5.600	6.300	6.600	.	.	4.500	3.800
NOV	5.600	4.300	7.200	.730 <T	.	.	.680 <T	4.000
DEC	.760 <T	.720 <T	1.200	4.800	.	.	1.300	.590 <T
COPPER (UG/L)		DET'N LIMIT = .100		GUIDELINE = 1000 (A3)				
JAN	28.000	2.000	12.000	5.800	25.000	13.000	.	.
FEB	42.000	2.100	15.000	4.100	52.000	7.000	22.000	13.000
MAR	70.000	2.400	24.000	3.400	48.000	6.400	100.000	13.000

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DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
APR	27.000	1.800	24.000	2.900	38.000	4.600	88.000	22.000
MAY	43.000	3.100	.	.	.	.	110.000	20.000
JUN	62.000	1.600	14.000	2.900	.	.	37.000	12.000
JUL	37.000	2.100	32.000	6.200	.	.	92.000	22.000
AUG	36.000	1.200	15.000	3.700	.	.	14.000	120.000
SEP	46.000	2.600	.	.	.	.	56.000	12.000
OCT	58.000	1.200	29.000	4.100	.	.	94.000	14.000
NOV	54.000	1.700	17.000	2.600	.	.	71.000	11.000
DEC	47.000	4.100	15.000	3.100	.	.	90.000	41.000
IRON (UG/L)		DET'N LIMIT = 4.000		GUIDELINE = 300. (A3)				
JAN	130.000	8.400 <T	19.000 <T	16.000 <T	13.000 <T	13.000 <T	.	.
FEB	55.000	26.000 <T	26.000 <T	28.000 <T	35.000 <T	33.000 <T	30.000 <T	29.000 <T
MAR	89.000	4.100 <T	7.100 <T	5.700 <T	12.000 <T	11.000 <T	4.700 <T	5.500 <T
APR	890.000	7.700 <T	16.000 <T	12.000 <T	15.000 <T	15.000 <T	5.100 <T	10.000 <T
MAY	74.000	7.400 <T	.	.	.	.	12.000 <T	8.200 <T
JUN	53.000	20.000 <T	27.000 <T	25.000 <T	.	.	23.000 <T	25.000 <T
JUL	110.000	13.000 <T	21.000 <T	17.000 <T	.	.	13.000 <T	8.400 <T
AUG	97.000	BDL	BDL	BDL	.	.	BDL	BDL
SEP	180.000	42.000 <T	.	.	.	.	5.900 <T	BDL
OCT	69.000	BDL	BDL	5.500 <T	.	.	BDL	BDL
NOV	90.000	10.000 <T	BDL	BDL	.	.	7.200 <T	BDL
DEC	42.000 <T	15.000 <T	12.000 <T	16.000 <T	.	.	11.000 <T	BDL
MERCURY (UG/L)		DET'N LIMIT = 0.010		GUIDELINE = 1.000 (A1)				
JAN	.020	.010	.	.020	.	.020	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM				
	RAW	TREATED	SITE 2		SITE 3		SITE 4		
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
FEB	.010	BDL	.	.010	.	.010	.	BDL	
MAR	.020	BDL	.	.010	.	.010	.	.010	
APR	.010	BDL	.	BDL	.	BDL	.	BDL	
MAY	BDL	BDL	.	.	.	.	.	.020
JUN	BDL	.020 <T	.	.020 <T	.	.	.	BDL	
JUL	.040 <T	BDL	.	.020 <T	.	.	.	.020 <T
AUG	.020 <T	.020 <T	.	.040 <T	.	.	.	.060
SEP	.040 <T	.040 <T	.	.	.	.	.	.060
OCT	.050 <T	.	.	.090	.	.	.	.120
NOV	.040 <T	.060	.	.090	.	.	.	.050 <T
DEC	.040 <T	.030 <T	.	.060	.	.	.	.090

MANGANESE (UG/L)									
DET'N LIMIT = .050 GUIDELINE = 50.0 (A3)									
JAN	6.600	.730	1.100	.940	.690	.740	.	.	
FEB	3.000	.670	.740	.610	1.300	.990	.900	.850	
MAR	6.300	.980	.710	.750	1.400	.980	.690	.770	
APR	27.000	1.000	1.300	1.100	2.000	1.200	.940	1.200	
MAY	7.100	1.300	.	.	.	.	.590	.320 <T
JUN	3.900	1.000	1.500	1.100	.	.	1.000	1.100	
JUL	9.200	2.300	2.700	1.800	.	.	1.900	1.800	
AUG	6.900	.510	.760	.580	.	.	.820	2.500	
SEP	9.100	2.400	.	.	.	.	.660	.560
OCT	5.700	.690	.750	.590	.	.	1.000	.770	
NOV	5.900	1.200	1.200	.650	.	.	.720	.600	
DEC	3.900	.700	.800	.670	.	.	.600	.640	

MOLYBDENUM (UG/L)									
DET'N LIMIT = 0.020 GUIDELINE = 500 (H)									

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DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM				
	RAW	TREATED	SITE 2		SITE 3		SITE 4		
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
JAN	1.100	1.300	1.300	1.200	1.200	1.200	.	.	
FEB	1.200	1.200	1.200	1.200	1.300	1.300	1.300	1.300	
MAR	1.100	1.300	1.200	1.200	1.200	1.200	1.200	1.200	
APR	.640	1.200	1.200	1.200	1.300	1.200	1.300	1.200	
MAY	1.400	1.300	.	.	.	.	1.400	1.300
JUN	1.300	1.300	1.300	1.200	.	.	1.300	1.400	
JUL	1.300	1.400	1.400	1.300	.	.	1.300	1.500	
AUG	1.000	1.200	1.300	1.300	.	.	1.200	1.100	
SEP	1.000	1.300	.	.	.	.	1.200	1.300
OCT	1.300	1.400	1.400	1.300	.	.	1.300	1.400	
NOV	1.200	1.300	1.500	1.300	.	.	1.200	1.200	
DEC	1.500	1.400	1.300	1.200	.	.	1.100	1.400	

NICKEL (UG/L)									
DET'N LIMIT = 0.100 GUIDELINE = 50. (F3)									
JAN	.940 <T	.970 <T	2.700	1.500	1.200 <T	.950 <T	.	.	
FEB	1.100 <T	.300 <T	.890 <T	.750 <T	1.300 <T	.700 <T	220.000	11.000	
MAR	1.300 <T	1.000 <T	.730 <T	.960 <T	2.000	.920 <T	94.000	4.400	
APR	2.300	1.600	1.500	1.400	3.400	2.100	1.800	4.800	
MAY	3.700	3.300	.	.	.	.	12.000	3.300
JUN	.820 <T	.850 <T	1.200 <T	.770 <T	.	.	2.700	1.400 <T	
JUL	2.500	2.400	2.500	1.600 <T	.	.	3.500	4.200	
AUG	1.500 <T	.880 <T	1.500 <T	1.200 <T	.	.	.840 <T	2.900	
SEP	BDL	.960 <T	.	.	.	.	.690 <T	.770 <T
OCT	1.800 <T	1.800 <T	2.700	2.100	.	.	3.300	2.400	
NOV	BDL	BDL	BDL	BDL	.	.	.540 <T	BDL	
DEC	1.600 <T	1.500 <T	2.000 <T	1.500 <T	.	.	3.000	2.000 <T	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW

LEAD (UG/L)	DET'N LIMIT = 0.050				GUIDELINE = 50. (A1)			
JAN	.620	.110 <T	1.900	.600	1.600	.510	.	.
FEB	.470	.130 <T	1.700	.200	3.100	.380	.690	.390
MAR	.490	.070 <T	2.000	.190 <T	2.300	.290	3.500	.610
APR	.930	.090 <T	2.000	.170 <T	1.800	.260	2.700	.870
MAY	.520	.160 <T	.	.	.	.	4.000	.580
JUN	.310	.180 <T	2.400	.310	.	.	1.500	.410
JUL	.360	.110 <T	2.800	.630	.	.	5.100	1.800
AUG	.300	.080 <T	2.200	.380	.	.	.640	7.700
SEP	.700	1.100	.	.	.	.	2.800	.610
OCT	.560	.090 <T	2.800	.440	.	.	5.700	.680
NOV	.500	.160 <T	2.000	.240	.	.	2.900	.430
DEC	.670	.160 <T	1.400	.290	.	.	4.300	1.600

ANTIMONY ()	DET'N LIMIT = .050				GUIDELINE = 146. (D4)			
JAN	.	.270	.260	.250	.290	.210	.	.
FEB	.190 <T	.190 <T	.200	.210	.240	.220	.210	.220
MAR	.260	.250	.220	.200	.240	.170 <T	.190 <T	.240
APR	.200	.230	.220	.210	.250	.210	.270	.200
MAY	.350	.280	.	.	.	.	.380	.300
JUN	.270	.280	.270	.250	.	.	.260	.260
JUL	.320	.330	.300	.260	.	.	.300	.330
AUG	.610	.570	.720	.700	.	.	.610	.780
SEP	.480	.610	.	.	.	.	.600	.600
OCT	.590	.770	.660	.740	.	.	.660	.720
NOV	.580	.660	.720	.660	.	.	.600	.640
DEC	.560	.470	.510	.530	.	.	.480	.700

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW

SELENIUM (UG/L)	DET'N LIMIT = 0.200				GUIDELINE = 10. (A1)			
JAN	!AW	!AW	!AW	!AW	!AW	!AW	.	.
FEB	1.100 <T	1.200 <T	1.300 <T	1.000 <T	1.600 <T	1.300 <T	1.500 <T	1.500 <T
MAR	.770 <T	1.200 <T	.980 <T	1.000 <T	.660 <T	1.100 <T	.620 <T	.580 <T
APR	BDL	.440 <T	.660 <T	.880 <T	1.000 <T	1.200 <T	.980 <T	1.300 <T
MAY	BDL	.630 <T	.	.	.	.	.940 <T	.750 <T
JUN	.470 <T	1.100 <T	.970 <T	1.200 <T	.	.	.950 <T	1.300 <T
JUL	2.000 <T	1.800 <T	4.500 <T	1.800 <T	.	.	2.700 <T	1.700 <T
AUG	.520 <T	.930 <T	1.600 <T	1.600 <T	.	.	1.300 <T	2.500 <T
SEP	BDL	2.600 <T	.	.	.	.	1.700 <T	2.200 <T
OCT	.400 <T	3.200 <T	2.800 <T	3.400 <T	.	.	3.800 <T	3.900 <T
NOV	2.800 <T	4.200 <T	5.600 <T	.780 <T	.	.	BDL	BDL
DEC	.270 <T	1.400 <T	1.900 <T	1.400 <T	.	.	2.100 <T	3.800 <T

STRONTIUM (UG/L)	DET'N LIMIT = .050				GUIDELINE = 2000.(H)			
JAN	210.000	200.000	200.000	200.000	200.000	200.000	.	.
FEB	200.000	190.000	190.000	190.000	200.000	220.000	200.000	200.000
MAR	200.000	190.000	190.000	190.000	190.000	190.000	150.000	190.000
APR	190.000	190.000	180.000	180.000	190.000	180.000	180.000	180.000
MAY	190.000	180.000	.	.	.	.	.860 <T	.410 <T
JUN	200.000	190.000	200.000	200.000	.	.	210.000	200.000
JUL	190.000	190.000	190.000	180.000	.	.	180.000	180.000
AUG	190.000	180.000	180.000	190.000	.	.	180.000	170.000
SEP	180.000	170.000	.	.	.	.	160.000	170.000
OCT	190.000	190.000	200.000	190.000	.	.	190.000	190.000
NOV	200.000	190.000	200.000	170.000	.	.	170.000	170.000
DEC	170.000	180.000	180.000	190.000	.	.	180.000	190.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM				
	RAW	TREATED	SITE 2		SITE 3		SITE 4		
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
TITANIUM (UG/L)		DET'N LIMIT = .050				GUIDELINE = N/A			
JAN	4.000	2.700	2.800	2.900	3.000	3.000	.	.	
FEB	4.800	4.000	4.000	4.100	4.400	4.600	4.800	5.100	
MAR	9.900	7.600	7.500	7.500	7.700	7.700	6.600	7.500	
APR	8.800	4.900	5.100	5.100	5.200	5.200	5.400	5.700	
MAY	4.500	1.700 <T	.	.	.	.	.620 <T	.240 <T
JUN	3.800	3.000	3.000	2.900	.	.	3.100	2.800	
JUL	4.200	3.300	3.600	3.600	.	.	3.200	3.400	
AUG	9.300	7.900	7.000	8.100	.	.	8.000	7.600	
SEP	6.300	6.100	.	.	.	.	5.900	5.500
OCT	6.500	4.300	4.000	5.100	.	.	4.000	4.500	
NOV	4.800	3.400	3.200	2.400	.	.	2.600	2.600	
DEC	4.700	4.600	4.900	4.900	.	.	4.200	5.000	
THALLIUM (UG/L)		DET'N LIMIT = .010				GUIDELINE = 13. (D4)			
JAN	.020 <T	.010 <T	.010 <T	.020 <T	.010 <T	BDL	.	.	
FEB	.010 <T	.020 <T	BDL	BDL	BDL	.010 <T	BDL	BDL	
MAR	.020 <T	.030 <T	.020 <T	BDL	BDL	BDL	.010 <T	.010 <T	
APR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
MAY	BDL	BDL	.	.	.	.	BDL	BDL
JUN	BDL	BDL	.020 <T	BDL	.	.	BDL	BDL	
JUL	.030 <T	.020 <T	.020 <T	BDL	.	.	BDL	.030 <T	
AUG	BDL	BDL	BDL	BDL	.	.	BDL	BDL	
SEP	BDL	.020 <T	.	.	.	.	.020 <T	BDL
OCT	BDL	BDL	BDL	.020 <T	.	.	BDL	BDL	
NOV	BDL	BDL	BDL	BDL	.	.	.020 <T	BDL	
DEC	.360	.060 <T	.040 <T	BDL	.	.	.020 <T	BDL	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM				
	RAW	TREATED	SITE 2		SITE 3		SITE 4		
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW	
URANIUM (UG/L)		DET'N LIMIT = .020				GUIDELINE = 20. (A2)			
JAN	.400	.300	.390	.410	.360	.380	.	.	
FEB	.390	.310	.290	.290	.300	.310	.280	.290	
MAR	.410	.380	.330	.390	.320	.350	.420	.340	
APR	.400	.260	.300	.260	.350	.290	.500	.290	
MAY	.360	.290	.	.	.	.	.180	.180 <T
JUN	.370	.360	.380	.350	.	.	.410	.360	
JUL	.320	.320	.330	.410	.	.	.480	.420	
AUG	.300	.300	.330	.290	.	.	.340	.750	
SEP	.350	.380	.	.	.	.	.460	.360
OCT	.360	.410	.380	.360	.	.	.450	.380	
NOV	.370	.230	.300	.320	.	.	.410	.380	
DEC	.390	.340	.390	.360	.	.	.420	.430	
VANADIUM (UG/L)		DET'N LIMIT = .050				GUIDELINE = 100 (H)			
JAN	.440	.690	.590	.580	.680	.600	.	.	
FEB	.270 <T	.390 <T	.370 <T	.330 <T	.370 <T	.310 <T	.340 <T	.320 <T	
MAR	.470	.460	.380 <T	.400	.440	.400	.430	.400	
APR	1.200	.530	.480	.480	.500	.430	.500	.480	
MAY	.350 <T	.520	.	.	.	.	.550	.440 <T
JUN	.310 <T	.430 <T	.460 <T	.420 <T	.	.	.430 <T	.440 <T	
JUL	.390 <T	.560	.540	.530	.	.	.490 <T	.540	
AUG	.380 <T	.560	.540	.540	.	.	.510	.500 <T	
SEP	.430 <T	.570	.	.	.	.	.440 <T	.430 <T
OCT	.430 <T	.720	.650	.630	.	.	.600	.590	
NOV	.340 <T	.770	.710	.500 <T	.	.	.400 <T	.480 <T	
DEC	.490 <T	.620	.600	.560	.	.	.550	.480 <T	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
			DET'N LIMIT = .001		GUIDELINE = 5000. (A3)			
ZINC (UG/L)								
JAN	2.600	1.500	23.000	4.100	6.300	2.600	.	.
FEB	1.900	1.200	38.000	1.700	54.000	2.200	5.700	2.000
MAR	3.400	2.200	31.000	2.200	68.000	3.400	19.000	4.200
APR	5.400	2.100	30.000	2.600	33.000	2.400	11.000	10.000
MAY	3.900	2.800	.	.	.	.	33.000	2.600
JUN	2.500	1.500	34.000	2.100	.	.	4.200	1.600
JUL	4.300	3.900	29.000	3.500	.	.	22.000	17.000
AUG	2.100	1.400	25.000	4.800	.	.	2.200	38.000
SEP	4.000	3.700	.	.	.	.	5.700	2.100
OCT	2.900	1.600	30.000	3.000	.	.	21.000	1.900
NOV	3.300	1.900	30.000	1.800	.	.	6.300	1.700
DEC	3.000	1.500	13.000	1.900	.	.	14.000	3.400

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
			DET'N LIMIT = 20.000		GUIDELINE = 42000 (D4)			
PAH FLUORANTHENE (NG/L)								
JAN	BDL	BDL	.	.	.	.	.	.
FEB	BDL	BDL	.	.	.	.	.	.
MAR	BDL	BDL	.	.	.	.	.	.
APR	20.000 <T	BDL	.	.	.	.	.	.
MAY	BDL	BDL	.	.	.	.	.	.
JUN	BDL	BDL	.	.	.	.	.	.
JUL	BDL	BDL	.	.	.	.	.	.
AUG	BDL	BDL	.	.	.	.	.	.
SEP	BDL	BDL	.	.	.	.	.	.
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	BDL	.	.	.	.	.	.
DEC	BDL	BDL	.	.	.	.	.	.
BENZO(K) FLUORANTHEN (NG/L)								
			DET'N LIMIT = N/A		GUIDELINE = 2.8 (D4T)			
JAN	1.000	BDL	.	.	.	.	.	.
FEB	BDL	BDL	.	.	.	.	.	.
MAR	BDL	BDL	.	.	.	.	.	.
APR	2.000 <T	BDL	.	.	.	.	.	.
MAY	BDL	BDL	.	.	.	.	.	.
JUN	BDL	BDL	.	.	.	.	.	.
JUL	BDL	BDL	.	.	.	.	.	.
AUG	BDL	BDL	.	.	.	.	.	.
SEP	BDL	BDL	.	.	.	.	.	.
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	BDL	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW

DEC	BDL	BDL
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TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

SITE TYPE	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW

PESTICIDES & PCB

ALPHA BHC (NG/L)	DET'N LIMIT = 1.000		GUIDELINE = 700 (G)					
JAN	2.000 <T	2.000 <T	.	BDL	.	2.000 <T	.	.
FEB	2.000 <T	2.000 <T	.	2.000 <T	.	2.000 <T	.	3.000 <T
MAR	BDL	BDL	.	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	4.000 <T	.	BDL	.	2.000 <T
MAY	INF	INF	.	.	.	.	.	2.000 <T
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	3.000 <T	3.000 <T	.	BDL	.	.	.	4.000 <T
AUG	2.000 <T	2.000 <T	.	2.000 <T	.	.	.	2.000 <T
SEP	2.000 <T	3.000 <T	.	.	.	.	.	2.000 <T
OCT	1.000 <T	2.000 <T	.	2.000 <T	.	.	.	2.000 <T
NOV	1.000 <T	3.000 <T	.	3.000 <T	.	.	.	3.000 <T
DEC	2.000 <T	3.000 <T	.	!LA	.	.	.	3.000 <T

LINDANE (NG/L)

DET'N LIMIT = 1.000

GUIDELINE = 4000 (A1)

JAN	BDL	BDL	.	BDL	.	BDL	.	.
FEB	BDL	1.000 <T	.	BDL	.	BDL	.	1.000 <T
MAR	BDL	BDL	.	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL	.	BDL
MAY	INF	INF	.	.	.	.	.	1.000 <T
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	2.000 <T	2.000 <T	.	BDL	.	.	.	3.000 <T
AUG	BDL	1.000 <T	.	1.000 <T	.	.	.	BDL
SEP	BDL	2.000 <T	.	.	.	.	.	BDL
OCT	BDL	BDL	.	BDL	.	.	.	1.000 <T
NOV	BDL	2.000 <T	.	1.000 <T	.	.	.	2.000 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	1.000 <T	1.000 <T	.	!LA	.	.	.	1.000 <T
ATRAZINE (NG/L)		DET'N LIMIT = 50.00		GUIDELINE = 60000 (B3)				
JAN	BDL	BDL	.	BDL	.	BDL	.	.
FEB	BDL	BDL	.	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL	.	120.000 <T
MAY	BDL	BDL	.	.	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	BDL	.	.	.	BDL
AUG	BDL	BDL	.	BDL	.	.	.	!NR
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	BDL	.	.	.	BDL
NOV	BDL	BDL	.	BDL	.	.	.	BDL
DEC	BDL	BDL	.	BDL	.	.	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PHENOLICS		DET'N LIMIT = 0.2		GUIDELINE = 2.00 (A3)				
JAN	BDL	BDL	.	.	.	.	.	.
FEB	BDL	.600 <T	.	.	.	.	.	.
MAR	BDL	BDL	.	.	.	.	.	.
APR	BDL	BDL	.	.	.	.	.	.
MAY	2.600 UCR	1.800 UCR	.	.	.	.	.	.
JUN	.800 <T	.600 <T	.	.	.	.	.	.
JUL	.400 <T	.400 <T	.	.	.	.	.	.
AUG	.200 <T	BDL	.	.	.	.	.	.
SEP	BDL	BDL	.	.	.	.	.	.
OCT	.800 <T	1.200	.	.	.	.	.	.
NOV	2.000	.800 <T	.	.	.	.	.	.
DEC	1.000	1.000	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
VOLATILES								
BENZENE (UG/L)								
			DET'N LIMIT = .050		GUIDELINE = 5.0 (B1)			
APR	BDL	BDL	.	BDL	.	BDL	.	BDL
MAY	BDL	.050 <T	.	.	.	.	.	BDL
JUN	BDL	BDL	.	.050 <T	.	.	.	.050 <T
JUL	BDL	BDL	.	.050 <T	.	.	.	.100 <T
AUG	BDL	BDL	.	.100 <T	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	BDL	.	.	.	BDL
NOV	BDL	BDL	.	BDL	.	.	.	BDL
DEC	BDL	BDL	.	BDL	.	.	.	BDL
TOLUENE (UG/L)								
			DET'N LIMIT = .050		GUIDELINE = 24.0 (B4)			
APR	BDL	BDL	.	.100 <T	.	.050 <T	.	BDL
MAY	BDL	.150 <T	.	.	.	.	.	.150 <T
JUN	BDL	BDL	.	.100 <T	.	.	.	.100 <T
JUL	BDL	.050 <T	.	.200 <T	.	.	.	.300 <T
AUG	.050 <T	BDL	.	.800	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	.050 <T	.	.	.	.050 <T
NOV	BDL	BDL	.	.050 <T	.	.	.	.550
DEC	BDL	BDL	.	.050 <T	.	.	.	BDL
ETHYLBENZENE (UG/L)								
			DET'N LIMIT = .050		GUIDELINE = 2.4 (B4)			
APR	BDL	.050 <T	.	BDL	.	BDL	.	.050 <T
MAY	BDL	BDL	.	.	.	.	.	.050 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	.050 <T	.050 <T	.	.100 <T	.	.	.	.050 <T
JUL	.050 <T	.100 <T	.	.150 <T	.	.	.	.100 <T
AUG	BDL	.100 <T	.	.150 <T	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	.050 <T	.	.	.	.050 <T
NOV	BDL	BDL	.	BDL	.	.	.	BDL
DEC	BDL	BDL	.	.050 <T	.	.	.	.050 <T
M-XYLENE (UG/L)								
			DET'N LIMIT = .100		GUIDELINE = 300 (B4)			
APR	BDL	BDL	.	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	.	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	.100 <T
JUL	BDL	.100 <T	.	.100 <T	.	.	.	.200 <T
AUG	BDL	BDL	.	.300 <T	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	BDL	.	.	.	BDL
NOV	BDL	BDL	.	BDL	.	.	.	.100 <T
DEC	BDL	BDL	.	BDL	.	.	.	BDL
O-XYLENE (UG/L)								
			DET'N LIMIT = .050		GUIDELINE = 300 (B4)			
APR	BDL	BDL	.	BDL	.	BDL	.	BDL
MAY	BDL	.050 <T	.	.	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	.050 <T
JUL	BDL	BDL	.	.050 <T	.	.	.	.100 <T
AUG	BDL	BDL	.	.150 <T	.	.	.	.050 <T
SEP	BDL	BDL	.	.	.	.	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	.050 <T	BDL	.	BDL	.	.	.	BDL
NOV	BDL	BDL	.	BDL	.	.	.	.050 <T
DEC	BDL	BDL	.	BDL	.	.	.	BDL
STYRENE (UG/L)		DET'N LIMIT = .050		GUIDELINE = 46.5 (D2)				
OCT	.300 <T	.200 <T	.	.300 <T	.	.	.	.250 <T
NOV	.200 <T	.100 <T	.	BDL	.	.	.	.150 <T
DEC	BDL	.050 <T	.	.150 <T	.	.	.	.250 <T
CHLOROFORM (UG/L)		DET'N LIMIT = .100		GUIDELINE = 350 (A1+)				
APR	BDL	14.900	.	15.700	.	15.800	.	12.200
MAY	.300 <T	11.900	.	.	.	.	.	14.500
JUN	BDL	9.200	.	10.500	.	.	.	8.000
JUL	BDL	8.700	.	11.400	.	.	.	9.700
AUG	.300 <T	13.600	.	15.900	.	.	.	10.800
SEP	BDL	11.900	.	.	.	.	.	13.700
OCT	.400 <T	9.300	.	13.300	.	.	.	14.400
NOV	BDL	7.100	.	8.000	.	.	.	7.200
DEC	BDL	9.000	.	8.300	.	.	.	7.300
CARBON TETRACHLORIDE (UG/L)		DET'N LIMIT = .200		GUIDELINE = 5.0 (D1)				
APR	BDL	BDL	.	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	.	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	.200 <T	.	BDL	.	.	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
AUG	BDL	BDL	.	BDL	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	BDL	.	.	.	BDL
NOV	BDL	BDL	.	BDL	.	.	.	BDL
DEC	BDL	BDL	.	BDL	.	.	.	BDL
TRICHLOROETHYLENE (UG/L)		DET'N LIMIT = .100		GUIDELINE = 5.0 (D1)				
APR	BDL	BDL	.	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	.	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	BDL	.	.	.	BDL
AUG	BDL	BDL	.	BDL	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	.100 <T	.100 <T	.	BDL	.	.	.	BDL
NOV	BDL	BDL	.	BDL	.	.	.	BDL
DEC	BDL	BDL	.	BDL	.	.	.	BDL
DICHLOROBROMOMETHANE (UG/L)		DET'N LIMIT = .050		GUIDELINE = 350 (A1+)				
APR	BDL	10.000	.	11.500	.	11.800	.	7.800
MAY	.150 <T	8.050	.	.	.	.	.	3.800
JUN	BDL	5.900	.	5.600	.	.	.	5.200
JUL	BDL	7.400	.	9.800	.	.	.	8.100
AUG	.050 <T	10.250	.	11.050	.	.	.	9.450
SEP	BDL	8.950	.	.	.	.	.	10.400
OCT	BDL	7.700	.	9.800	.	.	.	9.950
NOV	BDL	7.600	.	8.200	.	.	.	7.100

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	BDL	8.050	.	7.700	.	.	.	7.850
CHLORODIBROMOMETHANE (UG/L)		DET'N LIMIT = .100		GUIDELINE = 350 (A1+)				
APR	BDL	4.000	.	6.600	.	7.300	.	2.800
MAY	BDL	2.600	.	.	.	.	.	4.800
JUN	BDL	3.100	.	3.400	.	.	.	2.900
JUL	BDL	3.600	.	4.400	.	.	.	3.400
AUG	BDL	4.800	.	4.400	.	.	.	5.900
SEP	BDL	4.200	.	.	.	.	.	5.000
OCT	BDL	4.300	.	5.100	.	.	.	5.400
NOV	BDL	3.900	.	4.900	.	.	.	3.900
DEC	BDL	4.300	.	4.400	.	.	.	4.200
T-CHLOROETHYLENE (UG/L)		DET'N LIMIT = .050		GUIDELINE = 10.0 (C2)				
APR	BDL	BDL	.	BDL	.	BDL	.	BDL
MAY	.050 <T	.050 <T	.	.	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	.050 <T	.	.	.	BDL
AUG	BDL	BDL	.	BDL	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	BDL	.	.	.	.050 <T
NOV	BDL	BDL	.	BDL	.	.	.	.050 <T
DEC	BDL	BDL	.	BDL	.	.	.	.100 <T
BROMOFORM (UG/L)		DET'N LIMIT = .200		GUIDELINE = 350 (A1+)				
APR	BDL	.400 <T	.	.400 <T	.	.400 <T	.	.200 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 2		SITE 3		SITE 4	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	BDL	.200 <T	.	.	.	.	.	BDL
JUN	BDL	.200 <T	.	.200 <T	.	.	.	BDL
JUL	BDL	.400 <T	.	.400 <T	.	.	.	.400 <T
AUG	BDL	.200 <T	.	.400 <T	.	.	.	.400 <T
SEP	BDL	.400 <T	.	.	.	.	.	.600 <T
OCT	BDL	.600 <T	.	.400 <T	.	.	.	.400 <T
NOV	BDL	.400 <T	.	.400 <T	.	.	.	.600 <T
DEC	BDL	.600 <T	.	.600 <T	.	.	.	.600 <T
1,4 DICHLOROBENZENE (UG/L)		DET'N LIMIT = .100		GUIDELINE = 5.0 (B1)				
APR	BDL	BDL	.	BDL	.	BDL	.	.100 <T
MAY	BDL	BDL	.	.	.	.	.	BDL
JUN	BDL	BDL	.	.900 <T	.	.	.	BDL
JUL	BDL	BDL	.	1.100	.	.	.	.300 <T
AUG	BDL	BDL	.	1.200	.	.	.	.400 <T
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	.300 <T	.	.	.	BDL
NOV	BDL	BDL	.	.200 <T	.	.	.	.300 <T
DEC	BDL	BDL	.	.400 <T	.	.	.	.100 <T
TOTL TRIHALOMETHANES (UG/L)		DET'N LIMIT = .500		GUIDELINE = 350 (A1)				
APR	BDL	29.300	.	34.200	.	35.300	.	23.000
MAY	BDL	22.750	.	.	.	.	.	23.100
JUN	BDL	18.400	.	19.700	.	.	.	16.100
JUL	BDL	20.300	.	26.000	.	.	.	21.600
AUG	BDL	28.850	.	31.750	.	.	.	26.550

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1988

SITE TYPE	WATER TREATMENT PLANT				DISTRIBUTION SYSTEM				
	RAW	TREATED	SITE 2	SITE 3	SITE 4	STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	BDL	25.450	.	.	.	.	29.700	.	29.700
OCT	BDL	21.900	.	.	.	.	30.150	.	30.150
NOV	BDL	19.000	.	.	.	.	18.800	.	18.800
DEC	BDL	21.950	.	.	.	.	19.950	.	19.950

Table 6

SCAN/PARAMETER	UNIT	DETECTION	
		LIMIT	GUIDELINE
BACTERIOLOGICAL			
STANDARD PLATE COUNT MEMBRANE FILTRATION P/A BOTTLE	CT/ML	0	500/ML (A1)
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0 (A1*)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	5/100mL (A1)
CHLOROAROMATICS			
HEXACHLOROBUTADIENE	NG/L	1.000	450. (D4)
1,2,3-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000 (D4)
HEXACHLOROBENZENE	NG/L	1.0	10. (C1)
HEXACHLOROETHANE	NG/L	1.000	1900. (D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A
PENTACHLOROBENZENE	NG/L	1.000	74000 (D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	N/A
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A
2,4,5-TRICHLOROPHENOL	NG/L	50.	2600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	5000. (B1)
PENTACHLOROPHENOL	NG/L	50.	60000. (B1)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD PH	DMSNLESS	N/A	6.5-8.5 (A4)
FIELD TEMPERATURE	°C	N/A	<15 °C (A1)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	MG/L	.200	30-500 (A4)
CALCIUM	MG/L	.100	100. (F2)
CYANIDE	MG/L	.001	.20 (A1)
CHLORIDE	MG/L	.200	250. (A3)
COLOUR	TCU	.5	5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.	400. (F2)
FLUORIDE	MG/L	.01	2.4 (A1)
HARDNESS	MG/L	.50	80-100 (A4)
MAGNESIUM	MG/L	.05	30. (F2)

SCAN/PARAMETER	UNIT	DETECTION	
		LIMIT	GUIDELINE
NITRITE	MG/L	.001	1.0 (A1)
TOTAL NITRATES	MG/L	.02	10. (A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A
PH	DMSNLESS	N/A	6.5-8.5 (A4)
PHOSPHORUS FIL REACT	MG/L	.0005	N/A
PHOSPHORUS TOTAL	MG/L	.002	.40 (F2)
TOTAL SOLIDS	MG/L	1.	500. (A3)
TURBIDITY	FTU	.02	1.0 (A1)

METALS

ALUMINUM	UG/L	.050	100. (A4)
ANTIMONY	UG/L	.050	146. (D4)
ARSENIC	UG/L	.050	50. (A1)
BARIUM	UG/L	.020	1000. (A1)
BORON	UG/L	.200	5000. (A1)
BERYLLIUM	UG/L	.010	0.20 (H)
CADMIUM	UG/L	.050	5.0 (A1)
COBALT	UG/L	.020	1000. (H)
CHROMIUM	UG/L	.100	50. (A1)
COPPER	UG/L	.100	1000. (A3)
IRON	UG/L	5.0	300. (A3)
MERCURY	UG/L	.01	1.0 (A1)
MANGANESE	UG/L	.050	50. (A3)
MOLYBDENUM	UG/L	.020	500. (H)
NICKEL	UG/L	.100	50. (F3)
LEAD	UG/L	.020	50. (A1)
SELENIUM	UG/L	.200	10. (A1)
SILVER	UG/L	.020	50. (A1)
STRONTIUM	UG/L	.100	2000. (H)
THALLIUM	UG/L	.010	13. (D4)
TITANIUM	UG/L	.100	N/A
URANIUM	UG/L	.020	20. (A2)
VANADIUM	UG/L	.020	100. (H)
ZINC	UG/L	.020	5000. (A3)

PHENOLICS

PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0 (A3)
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PESTICIDES & PCB

ALDRIN	NG/L	1.0	700. (A1)
AMETRINE	NG/L	50.	300000. (D3)
ATRAZINE	NG/L	50.	60000. (B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700. (G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300. (G)
GAMMA HEXACHLOROCYCLOHEXANE (LINDANE)	NG/L	1.0	4000. (A1)
ALPHA CHLORDANE	NG/L	2.0	7000. (A1)
GAMMA CHLORDANE	NG/L	2.0	7000. (A1)
BLADEX	NG/L	100.	10000. (B3)
DIELDRIN	NG/L	2.0	700. (A1)
METHOXYCHLOR	NG/L	5.0	100000. (A1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000. (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000. (D4)
ENDRIN	NG/L	4.0	200. (A1)
ENDOSULFAN SULPHATE (THIODAN SULPHATE)	NG/L	4.0	N/A
HEPTACHLOR EPOXIDE	NG/L	1.0	3000. (A1)

SCAN/PARAMETER	UNIT	DETECTION	
		LIMIT	GUIDELINE
HEPTACHLOR	NG/L	1.0	3000. (A1)
METOLACHLOR	NG/L	500.	50000. (B3)
MIREX	NG/L	5.0	N/A
OXYCHLORDANE	NG/L	2.0	N/A
O,P-DDT	NG/L	5.0	30000. (A1)
PCB	NG/L	20.0	3000. (A2)
O,P-DDD	NG/L	5.0	N/A
PPDDE	NG/L	1.0	30000. (A1)
PPDDT	NG/L	5.0	30000. (A1)
ATRATONE	NG/L	50.	N/A
ALACHLOR	NG/L	500.	35000. (D2)
PROMETONE	NG/L	50.	52500. (D3)
PROPazine	NG/L	50.	16000. (D2)
PROMETRYNE	NG/L	50.	1000. (B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000. (B2)
SIMAZINE	NG/L	50.	10000. (B3)

POLYAROMATIC HYDROCARBONS

PHENANTHRENE	NG/L	10.0	N/A
ANTHRACENE	NG/L	1.0	N/A
FLUORANTHENE	NG/L	20.0	42000. (D4)
PYRENE	NG/L	20.0	N/A
BENZO (A) ANTHRACENE	NG/L	20.0	N/A
CHRYSENE	NG/L	50.0	N/A
DIMETHYL BENZO (A) ANTHRACENE	NG/L	5.0	N/A
BENZO (E) PYRENE	NG/L	50.0	N/A
BENZO (B) FLUORANTHENE	NG/L	10.0	N/A
PERYLENE	NG/L	10.0	N/A
BENZO (K) FLUORANTHENE	NG/L	1.0	N/A
BENZO (A) PYRENE	NG/L	5.0	10. (B1)
BENZO (G, H, I) PERYLENE	NG/L	20.0	N/A
DIBENZO (A, H) ANTHRACENE	NG/L	10.0	N/A
INDENO (1, 2, 3-C, D) PYRENE	NG/L	20.0	N/A
BENZO (B) CHRYSENE	NG/L	2.0	N/A
CORONENE	NG/L	10.0	N/A

SPECIFIC PESTICIDES

TOXAPHENE	NG/L	N/A	5000. (A1)
2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T)	NG/L	50.	280000. (B1)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000. (A1)
2,4-DICHLOROPHENOXYBUTYRIC ACID	NG/L	200.	18000. (B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A
DICAMBA	NG/L	100.	87000. (B3)
PICHLORAM	NG/L	100.	2450000. (D3)
SILVEX (2,4,5-TP)	NG/L	50.	10000. (A1)
DIAZINON	NG/L	20.	14000. (A1)
DICHLOROVOS	NG/L	20.	N/A
DURSBAN	NG/L	20.	N/A
ETHION	NG/L	20.	35000. (G)
GUTHION	NG/L	N/A	N/A
MALATHION	NG/L	20.	160000. (G)
MEVINPHOS	NG/L	20.	N/A
METHYL PARATHION	NG/L	50.	7000. (B3)
METHYLTRITHION	NG/L	20.	N/A
PARATHION	NG/L	20.	35000. (B1)

SCAN/PARAMETER	DETECTION		
	UNIT	LIMIT	GUIDELINE
PHORATE (THIMET)	NG/L	20.	35. (D2)
RELDAN	NG/L	20.	N/A
RONNEL	NG/L	20.	N/A
AMINOCARB	NG/L	N/A	N/A
BENONYL	NG/L	N/A	N/A
BUX (METALKAMATE)	NG/L	2000.	N/A
CARBOFURAN	NG/L	2000.	18000. (D3)
CICP (CHLORPROPHAM)	NG/L	2000.	350000. (G)
DIALLATE	NG/L	2000.	30000. (H)
EPTAM	NG/L	2000.	N/A
IPC	NG/L	2000.	N/A
PROPOXUR (BAYGON)	NG/L	2000.	90000. (G)
SEVIN (CARBARYL)	NG/L	200.	70000. (A1)
SUTAN (BUTYLATE)	NG/L	2000.	245000. (D3)

VOLATILES

BENZENE	UG/L	.050	5.0 (B1)
TOLUENE	UG/L	.050	24.0 (B4)
ETHYLBENZENE	UG/L	.050	2.4 (B4)
PARA-XYLENE	UG/L	.100	300. (B4)
META-XYLENE	UG/L	.100	300. (B4)
ORTHO-XYLENE	UG/L	.050	300. (B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0 (D1)
ETHYLENE DIBROMIDE	UG/L	.05	50. (G)
METHYLENE CHLORIDE	UG/L	.500	1750. (D3)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	350. (D3)
1,1-DICHLOROETHANE	UG/L	.100	N/A
CHLOROFORM	UG/L	.100	350. (A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200. (D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0 (D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0 (D1)
1,2-DICHLOROPROPANE	UG/L	.050	10.0 (G)
TRICHLOROETHYLENE	UG/L	.100	5.0 (D1)
DICHLOROBROMOMETHANE	UG/L	.050	350. (A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050	.60 (D4)
CHLORODIBROMOMETHANE	UG/L	.100	350. (A1+)
TETRACHLOROETHYLENE	UG/L	.050	10.0 (C2)
BROMOFORM	UG/L	.200	350. (A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050	0.17 (D4)
CHLOROBENZENE	UG/L	.100	1510. (D3)
1,4-DICHLOROBENZENE	UG/L	.100	5.0 (B1)
1,3-DICHLOROBENZENE	UG/L	.100	130. (G)
1,2-DICHLOROBENZENE	UG/L	.050	200. (B1)
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A
TOTAL TRIHALOMETHANES	UG/L	.500	350. (A1)
STYRENE	UG/L	.05	46.5 (D2)