



FORT ERIE (ROSEHILL) WATER TREATMENT PLANT

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1988

FEBRUARY 1990



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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

FORT ERIE 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 Fort Erie (Rosehill) Water Treatment Plant is a conventional treatment plant which treats water from Lake Erie. The process consists of coagulation, flocculation, sedimentation, filtration and disinfection. This plant has a design capacity of 50 x 1000 m^3 /day and serves a population of approximately 25,000.

Water samples from the raw, treated and two distribution sites were taken on a monthly basis and analyzed for approximately 160 parameters. Parameters were divided into the following groups Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organics (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polynuclear Aromatic Hydrocarbons, Specific Pesticides and Volatiles). Specific Pesticides and Chlorophenols were analysed in June and November only.

A summary of results is shown in Table 1.

Inorganic and Physical parameters (Laboratory Chemistry, Field Chemistry and Metals) were below any applicable health related ODWOs.

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 Fort Erie (Rosehill) Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

DRINKING WATER SURVEILLANCE PROGRAM

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INTRODUCTION

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 partially initiated at the Fort Erie (Rosehill) Water Treatment Plant in February of 1987; the full program began in June.

This report contains information and results for 1988.

PLANT DESCRIPTION

The Fort Erie (Rosehill) Water Treatment Plant is a conventional treatment plant which treats water from Lake Erie. The process consists of coagulation, flocculation, sedimentation, filtration and disinfection; powdered activated carbon is used for taste and odour control when necessary. This plant has a design capacity of $50 \times 1000 \text{ m}^3/\text{day}$ and flows on day of sampling ranging from 12 x

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM SITE LOCATION MAP FORT ERIE WATER TREATMENT PLANT



DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

Fort Erie (Rosehill) WATER SUPPLY SYSTEM

LOCATION:

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ROSEHILL ROAD Fort Erie (Rosehill), ONTARIO (416-871-3551)

SOURCE:

RAW WATER SOURCE - LAKE ERIE

RATED CAPACITY:

50 (1000 M3/DAY)

OPERATION:

MUNICIPAL

PLANT SUPERINTENDENT: MR. H. HODGSON

MINISTRY REGION:

DISTRICT OFFICER:

MR. J. MAYES

WEST CENTRAL

MUNICIPALITY SERVED POPULATION

Fort Erie (Rosehill)

25,000

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 were recorded on the day of sampling and were entered on the DWSP database as submitted.

RESULTS

Water at the Fort Erie (Rosehill) Water Treatment Plant was sampled for approximately 160 parameters. The Specific Pesticides and Chlorophenols scans were sampled in June and November only. Polynuclear Aromatic Hydrocarbons and Phenolics are only analysed 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 and February are not available.

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

Table 4 is a summary break-down of the number of water samples

review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameter Listing System (PALIS) recently initiated 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 and treated water as a result of pollution, many of the compounds detected are naturally occurring or are treatment byproducts.

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 useful 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.

system and the fact that their enumeration is subject to considerable variation. For these reasons, the occasional finding of low numbers of coliform organisms is not unexpected. 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.

There are ODWOs that are set for parameters which are related to the aesthetic quality rather than health.

The aesthetic ODWO of 5 True Colour Units (TCU) was exceeded in the February Site 2 free flow water (10 TCU) and the MArch Site 2 free flow water (5.5 TCU). Colour in drinking water may be due to the presence of natural and synthetic organic substances as well as certain metallic ions.

The ODWO indicate that a hardness level of between 80 and 100 mg/L as calcium carbonate for domestic waters provides an acceptable balance between corrosion and incrustation. Water supplies with a hardness greater than 200 mg/L are considered poor (Table X), and would possess a tendency to form scale deposits and result in

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.

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Elevated levels of Copper, Lead and Zinc were detected in the standing samples from the distribution system as compared to the free flow samples thus, indicating that 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.

The levels of Iron in the Site 2 samples were much higher than those for the treated water at the plant as were both Iron and Manganese values for the Site 1 samples. These elevated levels may be due in part to cast iron distribution mains.

At present, there is no evidence that Aluminum is physiologically harmful and no health limit for drinking water has been specified. The measure of residual Aluminum in the treated water is important to indicate the efficiency of the treatment process. The ODWOs indicate that a useful guideline is to maintain a residual below 100 ug/L as Al in the water leaving the plant to avoid problems in the distribution system. Aluminum values exceeded the ODWO operational guideline eight times in the treated water.

and treated 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 raw water ranging from 1.2 ug/L to 2.0 ug/L and in the treated water ranging from 1.2 ug/L to 2.0 ug/L. Phenolics were also detected at trace levels, four times in the raw water and five times in the treated water. Phenolic compounds are present in the aquatic environment as a result of natural and/or industrial processes.

Polynuclear Aromatic Hydrocarbons (PAH)

Results of the PAH scan showed that no PAHs were detected.

Volatiles

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

> Benzene Toluene

at 0.90 ug/L. These levels are below the United States Environmental Protection Agency's proposed Maximum Contaminant Levels (MCL) for Styrene in drinking water of 140 ug/L.

Ethylbenzene was detected at a trace level, once in the raw water, twice in the treated water and twice in the Site 2 water.

The volatiles listed above 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 Site 2 water.

Tetrachloroethylene (T-Chloroethylene) was detected at a trace level, once in the Site 2 water.

THMs are known 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 most samples of treated water. All Total THM

DRINKING WATER SURVEILLANCE PROGRAM FORT ERIE (ROSEHILL WTP) SAMPLE DAY CONDITIONS FOR 1988

	SAMPLE DAY	CONDITIO	NS		TREATMENT CHEMICAL DOSAGES (MG/L)			
			PRE-CHLORINATION	COAGULATION	POST-CHLORINATION	TASTE & ODOUR		
DATE	RETENTION TIME(HRS)	FLOW (1000M3)	CHLORINE	ALUM LIQUID	CHLORINE	ACTIVATED CARBON POWDER		
JAN 26	24.0	14.3	.75	5.00	.30			
FEB 23		13.0	.80	5.00	.30	•		
MAR 22	.2	13.0	.75	4,50	.35	•		
APR 19	24.0	14.0	.75	4.50	.40	•		
MAY 17	1.0	14.0	1.00	2.50	.45			
JUN 14	.5	30.0	1.00	4.00	.45			
JUL 12	.5	29.0	1.40	5.00	.45	1.50		
AUG 09	.2	24.0	1.90	5.50	.45	1.00		
SEP 07	2.3	14.0	1.70	6.00	.50	1.00		
OCT 03	.3	14.0	1.40	4.00	.38			
NOV 01	.6	14.0	1.20	5.00	.30			
DEC 06	.7	12.0	1.10	6.00	.35	•		

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM FORT ERIE

		SITE											
			RAW		T	REATED			SITE 1			SITE 2	
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
CHEMISTRY (LAB)	CALCIUM	10	10	0	12	12	0	22	22	0	15	15	0
	CYANIDE	10	0	0	12	0	0	11	0	0	8	0	0
	CHLORIDE	10	10	0	12	12	0	22	22	0	16	16	0
	COLOUR	10	2	8	12	0	12	22	6	16	16	16	0
	CONDUCTIVITY	10	10	0	12	12	0	22	22	0	16	16	0
	FLUORIDE	10	10	0	12	12	0	22	22	0	15	15	0
	HARDNESS	10	10	0	12	12	0	22	22	0	15	15	0
	IONCAL	10	6	0	12	. 6	0	22	10	0	16	6	0
	LANGELIERS INDEX	10	10	0	12	12	0	22	22	0	15	15	0
	MAGNESIUM	10	10	0	12	12	0	22	22	0	15	15	0
	SODIUM	10	10	0	12	12	0	22	22	0	15	15	0
	AMMONIUM TOTAL	10	10	0	12	7	5	22	17	5	16	14	2
	NITRITE	10	6	4	12	4	7	22	9	13	16	4	12
	TOTAL NITRATES	10	7	3	12	9	3	22	20	2	16	16	0
	NITROGEN TOT KJELD	10	[`] 10	0	12	12	0	22	22	0	16	16	0
	PH	10	10	0	12	12	0	22	22	0	16	16	0
	PHOSPHORUS FIL REACT	10	4	5	12	. O	10				•		
	PHOSPHORUS TOTAL	10	7	2	12	1	9						•
	SULPHATE	6	6	0	6	6	0	10	10	0	6	6	0
	TURBIDITY	10	10	0	12	10	2	22	22	0	15	15	0
*TOTAL SCAN CHEMISTRY	(LAB)	206	168	22	246	175	48	395	336	36	279	247	14
METALS	SILVER	9	0	 1	12	0	····- 5		0		16	3	6

DRINKING WATER SURVEILLANCE PROGRAM FORT ERIE

SUMMARY TABLE OF RESULTS (1988)

SITE RAW SITE 1 SITE 2 TREATED SCAN PARAMETER TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE CHLOROAROMATICS **HEXACHLOROBUTADIENE** 123 TRICHLOROBENZENE 1234 T-CHLOROBENZENE 1235 T-CHLOROBENZENE 124 TRICHLOROBENZENE 1245 T-CHLOROBENZENE **135 TRICHLOROBENZENE** HCB HEXACHLOROETHANE Ô Ô OCTACHLOROSTYRENE Û PENTACHLOROBENZENE 236 TRICHLOROTOLUENE 245 TRICHLOROTOLUENE Û 26A TRICHLOROTOLUENE ***TOTAL SCAN CHLOROAROMATICS** O - - -234 TRICHLOROPHENOL CHLOROPHENOLS 2345 T-CHLOROPHENOL 2356 T-CHLOROPHENOL 245-TRICHLOROPHENOL 246-TRICHLOROPHENOL Û PENTACHLOROPHENOL ***TOTAL SCAN CHLOROPHENOLS**

DRINKING WATER SURVEILLANCE PROGRAM FORT ERIE

		SITE												
		•	RAW		Т	REATED		SI	TE 1			SITE 2		
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL P	OSITIVE	TRACE	TOTAL	POSITIVE	TRACE	_
PESTICIDES & PCB	BETA BHC	10	0	0	12	0	0	7	0	0	7	0	0	
	LINDANE	10	0	1	12	0	1	7	0	0	7	0	0	
	ALPHA CHLORDANE	10	0	0	12	0	0	7	0	0	7	0	0	
	GAMMA CHLORDANE	10	0	0	12	0	0	7	0	0	7	0	0	
	DIELDRIN	10	0	0	12	0	0	7	0	0	7	0	0	
	METHOXYCHLOR	10	0	0	12	0	0	7	0	0	7	0	0	
	ENDOSULFAN 1	10	0	0	12	0	0	7	0	0	7	0	0	
	ENDOSULFAN II	10	0	0	12	. 0	0	7	0	0	7	0	O	
	ENDRIN	10	0	0	12	0	0	7	0	0	7	0	0	
	ENDOSULFAN SULPHATE	10	0	0	12	0	0	7	0	0	7	0	0	
	HEPTACHLOR EPOXIDE	10	0	0	12	0	0	7	0	0	7	0	0	
	HEPTACHLOR	10	0	0	12	0	0	7	0	0	7	0	0	
	MIREX	10	0	0	12	0	0	7	0	0	7	0	0	
	OXYCHLORDANE	10	, O	0	12	0	0	7	0	0	7	0	0	
	OPDDT	10	0	0	12	0	0	7	0	0	7	0	0	
	PCB	10	0	0	12	0	0	7	0	0	7	0	0	
	DOD	10	0	0	12	0	0	7	0	0	7	0	0	
	PPDDE	10	0	0	12	0	0	7	0	0	7	0	0	
	PPDDT	10	0	0	12	0	0	7	0	0	7	0	0	
	AMETRINE	10	0	0	12	0	0	11	0	0	8	0	0	
	ATRAZINE	10	0	0	12	0	0	11	0	0	8	0	0	
	ATRATONE	10	0	0	12	0	0	11	0	0	8	0	0	
	CYANAZINE	10	0	0	12	0	0	11	0	0	8	0	0	
	DES ETHYL ATRAZINE	6	0	0	6	0	0	5	0	0	3	0	0	
	DES ETHYL SIMAZINE	6	n	n	6	0	0	5	0	0	3	a	0	

DRINKING WATER SURVEILLANCE PROGRAM FORT ERIE

		SITE											
			RAW		T	REATED		9	SITE 1			SITE 2	
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
SPECIFIC PESTICIDES	DICHLOROVOS	2	0	0	2	0	0	• • • • •	• • • • • • •				••••••••
	CHLORPYRIFOS	2	0	0	2	0	0			-			
	ETHION	2	0	0	2	0	0				•		
	AZINPHOS-METHYL	0	0	0	0	0	0		-				
•	MALATHION	2	0	0	2	0	0						-
	MEVINPHOS	2	0	0	2	0	0						
	METHYL PARATHION	2	0	0	2	0	0						
	METHYLTRITHION	2	0	0	2	0	0						
	PARATHION	2	0	0	2	0	0						
	PHORATE	2	0	0	2	0	0	•					
	RELDAN	2	0	0	2	0	0						•
	RONNEL	2	0	0	2	0	0						
	AMINOCARB	0	0	0	0	0	0						
	BENONYL	2,	0	0	2	0	0	-					•
	BUX	2	0 0	0	2	0	0						
	CARBOFURAN	2	0	0	2	0	0		•				
	CICP	2	0	0	2	0	0		•				
	DIALLATE	. 2	0	0	2	0	0			•		•	•
	EPTAM	2	0	0	2	0	0			-			
	IPC	2	0	0	2	0	0						
	PROPOXUR	2	0	0	2	0	0		. •	-			•
	CARBARYL	2	0	0	2	0	0		•	-			
	BUTYLATE	2	0	0	2	0	0	•		•	•	•	•
*TOTAL SCAN SPECIFIC	PESTICIDES	56	. 0	0	56	0	0	0	0	0	0	0	0

DRINKING WATER SURVEILLANCE PROGRAM FORT ERIE

		SITE											
			RAW		TR	EATED		S I	TE 1		\$I	TE 2	
SCAN	PARAMETER	AMETER TOTAL		TRACE	TOTAL POSITIVE TRACE		TOTAL POSITIVE TRACE			TOTAL POSITIVE TRACE			
VOLATILES	1,3 DICHLOROBENZENE	10	0	0	10	0	0	8	0	0	6	0	0
	1,2 DICHLOROBENZENE	10	0	0	10	0	0	8	0	0	6	0	0
	TRIFLUOROCHLOROTOLUE	4	0	0	4	0	0	3	0	0	. 3	0	0
	ETHLYENE DIBROMIDE	10	0	0	10	0	0	8	0	0	6	0	0
	TOTL TRIHALOMETHANES	10	0	2	10	10	0	8	8	0	6	6	0
*TOTAL SCAN VOLATILES	1	287	3	8	287	42	16	228	33	11	173	24	12
*TOTAL GROUP ORGANIC		990	7	19	1101	46	31	604	33	14	512	24	15
				•••••									******
TOTAL		1480	348	116	1743	421	195	1666	782	216	1257	543	151

LABORATORY RESULTS, REMARK DESCRIPTIONS

No Sample Taken

BDL	Below Minimum Measurable Amount
<t< td=""><td>Greater Than Detection Limit But Not Confident</td></t<>	Greater Than Detection Limit But Not Confident
>	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
! LD	No Data: Test Queued After Sample Discarded
!NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
! NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!QU	No Data: Quality Control Unacceptable
!PE	No Data: Procedural Error - Sample Discarded
! PH	No Data: Sample pH Outside Valid Range
! RO	No Data: See Attached Report (no numeric results)
! SM	No Data: Sample Missing
!ss	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only

		DRII	NKING WATER SU	RVEILLANCE PROGRAM F	ORT ERIE (ROSEHII	L WIP) 1988						
	WATER TREA	ATMENT PLANT		DISTRIBUTION SYSTEM								
	RAW	TREATED	SITE 1		SITE 2							
			STANDING	FREE FLOW	STANDING	FREE FLOW						
	BACTERI	DLOGICAL										
AEROMONAS S	P (O=ABSENT)		DET'N	LIMIT = N/A	GUIDELINE =	0 (A1)						
MAR	•	•	•	•	•	0						
JUL	•	•	•	1	•	•						
AUG	٠	•	•	0	•	•						
E. COLI P/A	(0=ABSENT)	,	DET'N	LIMIT = N/A	GUIDELINE =	N/A						
MAR	٠	•	•	•	•	0						
JUL	•	•	•	0	•	٠						
AUG	•	•	•	0	•	٠						
FECAL COLIF	ORM MF (CT/100)	۲	DET'N	LIMIT = 0	GUIDELINE =	0 (A1)						
MAR	0	•	•	•	•	•						
APR	0	•	•	•	•	•						
MAY	0	•	•	•	•	•						
JUN	0	•	•	•	٠	•						
JUL	2	•	•	•	. •	٠						
AUG	0	•	•	•	•	•						
SEP	4	•	•	a. •	•	•						
OCT	2 T48	•	•	•	•	•						
NOV	1 T24	٠	•	•	•	•						
DEC	50 T48	•		•	•	•						
FECAL COLIF	ORM (O=ABSENT)	DET'N	LIMIT = N/A	GUIDELINE =	0 (A1)						
MAR		•		•	•	0						
JUL	•	•	•	0	•	•						
AUG	•	•	•	0	•	•						

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DETNICTION DESCRIPTION

	WATER TRE	ATMENT PLANT		DISTRIBUTION SYSTEM						
	RAW	TREATED	SITE 1		SITE 2					
			STANDING	FREE FLOW	STANDING	FREE FLOW				
TOTAL COL	FORM MF (CT/100	ML)	DET'N L	IMIT = 0	GUIDELINE = 5	/100ml (A1)				
JAN	•	0	•	0		0				
FEB	•	0		0	•	0				
MAR	8	0	•	0		Ō				
APR	26	0		0		Ō				
MAY	18	0		0	•	•				
JUN	126 A3C	0	•	0	•	0				
JUL	120	0		1	•	•				
AUG	300	0	•	2	•	40 A3C				
SEP	50	0		0	•	•				
OCT	8 A3C	0 T48	•	0 T24	•	•				
NOV	38 A3C	0 т24	•	0 T24	•	0 T24				
DEC	480 A3C	BDL	•	•	•	0 T24				
T COLIFORM	BCKGRD MF (CT/	100ML)	DET'N L	IMIT = 0	GUIDELINE = N	/A				
JAN	•	0	•	0	•	0				
FEB	•	0	•	0	•	0				
MAR	114	` O	•	0	•	0				
APR	156	0	•	0	•	0				
MAY	202	0	•	0	•	•				
JUN	2200	0	•	14	•	0				
JUL	10900	0	•	114	•	٠				
AUG	10400	0	•	204	•	26000				
SEP	28000	0	•	22	•	•				
OCT	4800 >	1 T48	•	2 T24	•	•				
NOV	4800 A3C	0 т24	•	2 T24	•	220 T24				
DEC	7000 A3C	BDL	•	•	•	100 T24				

DISTRIBUTION SYSTEM

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
FLD CHLORI	NE (TOTAL) (MG	/L)	DET'N LI	MIT = N/A	GUIDELINE =	N/A
JAN	•		.300	.300	•	.100
FEB	٥	.480	.300	.300	•	.150
MAR	¢	.570	.300	.500	.100	.150
APR	¢	.350	.300	.100	•	.100
MAY	•	.600	.300	.300	•	•
JUN	•	.420	.300	.100	•	•
JUL		.440	.100	.300	•	•
AUG	0	.450	.300	.100	•	.250
SEP	0	.450	.300	.300	•	•
OCT	0	.350	.300	.300	•	٠
NOV	•	.600	.300	.300	•	.100
DEC	0 حد خله هند خله هند خله خله خله هند حد حد حد حد ه	.430	•	•	•	.150
FLD PH (DM	SNLESS)		DET'N LI	MIT = N/A	GUIDELINE =	6.5-8.5(A4)
JAN	٠	, •	7.800	7.800	7.400	7.300
FEB	۰	7.600	7.800	7.400	7.800	7.600
MAR	8.200	7.600	7.600	7.800	7.600	7.800
APR	7.900	7.600	7.800	7.600	7.600	7.600
MAY	8.000	7.600	7.800	7.600	•	•
JUN	7.800	7.600	7.800	7.800	7.800	7.650
JUL	8.000	7.600	7.800	7.600	•	٠
AUG	8.000	7.600	7.800	7.800	7.600	7.800
SEP	7.800	7.500	7.800	7.800	•	•
OCT	7.800	7.500	7.800	7.400	•	•
NOV	7.800	7.600	7.400	7.600	7.600	7.500
DEC	7.800	7.600	•	•	7.600	7.900

DISTRIBUTION SYSTEM

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	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	CHEMIS	STRY (LAR)				
ALKALINITY	(MG/L)		DET'N LI	MIT = .200	GUIDELINE =	30-500 (A4)
JAN	٠	100.600	100.100	100.900	100.300	98.700
FEB	•	102.800	104.300	104.300	106.800	105.000
MAR	104.100	100.200	99.700	100.400	101.400	100.100
APR	99.500	94.800	95.900	96.500	95.700	97.600
MAY	99.700	97.900	98.800	99.000	•	•
JUN	103.500	99.300	99.700	99.600	99.700	100.200
JUL	100.100	89.500	91.300	92.200	•	•
AUG	100.400	96.200	98.800	96.500	98.400	98.700
SEP	98.200	94.200	93.600	94.400	•	•
OCT	102.000	98.800	. 99.400	99.600	•	٠
NOV	103.100	100.900	101.300	101.800	102.300	103.400
DEC	110.000	104.000	•	•	104.300	103.600
CALCIUM (MO	G/L)		DET'N LI	MIT = .100	GUIDELINE =	100 (F2)
JAN	•	37.400	37.000	37.600	38.000	36.800
FEB	•	38.800	40.200	39.000	39.600	40.600
MAR	40.200	40.400	39.000	39.400	39.200	36.400
APR	32.400	34.000	34.000	34.600	35.400	34.400
MAY	36.600	36.800	36.200	37.000	•	•
JUN	36.400	37.000	37.200	37.600	37.400	lis
JUL	37.000	39.000	38.600	38.200	•	•
AUG	35.800	36.700	37.400	36.200	36.800	37.100
SEP	36.200	37.800	37.800	38.400	٠	٠
OCT	37.600	37.400	38.400	39.200	٠	•
NOV	37.400	36.200	36.200	37.000	36.800	36.600
DEC	39.000	38.600	•	•	38.200	38.600

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1			SITE 2	
_ * * *			STANDING	FREE	FLOW	STANDING	FREE FLOW
CONDUCTIVIT	Y (UMHO/CM)		DET ' N	LIMIT = 1		GUIDELINE =	400 (F2)
JAN -	•	302	304		302	304	298
FEB	•	312	316		314	322	313
MAR	294	295	297		295	296	292
APR	279	276	280		279	276	279
MAY	289	291	292		292	•	۵
JUN	292	297	300		297	299	296
JUL	291	297	298		298	•	٠
AUG	288	294	302		294	297	295
SEP	289	295	297		295	٠	٠
OCT	294	298	302		300	•	۵
NOV	294	305	306		306	313	304
DEC	311	311	•		•	306	303
FLUORIDE (M	G/L)	# # _ # # # # # # # # # # # # = =	DET'N	LIMIT = .(D1	GUIDELINE =	2.400 (A1)
JAN	•	.100	.100		.120	.100	.100
FEB	•	.140	.140		.140	.120	.120
MAR	.140	.130	.110		.120	.110	.110
APR	.120	.090	.090		.090	.090	.090
MAY	.120	.110	.110		.110	•	•
JUN	.110	.110	.110		.110	.110	115
JUL	.120	.120	.120		.110	•	٠
AUG	.120	.120	.120		.120	.120	.120
SEP	.100	.100	.100		.120	•	•
OCT	.120	.120	.120		.120	•	٠
NOV	.100	.100	.080	N	.080	.100	.100
DEC	.120	.120	•		•	.120	.120

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
LANGELIERS	INDEX (UG/L)	DET'N LIM	IT = N/A	GUIDELINE = N	/A
JAN	•	.136 NAF	.138 NAF	.139 NAF	.530 NAF	.102 NAF
FEB	•	.168 NAF	.290 NAF	.277 NAF	.283 NAF	.277 NAF
MAR	.445 NAF	.250 NAF	.212 NAF	.250 NAF	.312 NAF	.246 NAF
APR	.308 NAF	.239 NAF	.262 NAF	.273 NAF	.300 NAF	.325 NAF
MAY	.367 NAF	.271 NAF	.318 NAF	.408 NAF	•	•
JUN	.430 NAF	.317 NAF	.290 NAF	.316 NAF	.343 NAF	•
JUL	.463	.185	.289	.189	•	•
AUG	.441	.321	.268	.277	.311	.347
SEP	.346	.204	.261	.242	•	•
OCT	.477	.439	.442	.432	•	٠
NOV	. 439	.332	323	.355	.373	.477
DEC	. 490	.391	٠	•	. 409	. 492
MAGNESIUM	(MG/L)		DET'N LIM	IT = .050	GUIDELINE = 3	0 (F2)
JAN	•	8.500	8.700	8.600	8.500	8.300
FEB	•	8.700	8.900	8.600	8.900	9.000
MAR	9.050	8.950	8.750	8.750	8.650	8.300
APR	7.300	7.800	7.800	7.600	7.700	7.600
MAY	8.100	8.100	7.800	7.800	•	•
JUN	8.300	8.300	8.200	8.300	8.300	!IS
JUL	8.600	8.800	8.600	8.700	•	٠
AUG	8.400	8.500	8.400	8.500	8.300	8.200
SEP	8.400	8.600	8.400	8.300	•	٠
OCT	9.000	8.900	8.700	8.400	٠	•
NOV	8.500	8.700	8.400	8.300	8.400	8.400
DEC	9.900	9.600	•	•	9.200	8.900

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
NITEITE (MC/	·					
MIINIIE (MG/	L)		DEI N LIM.	11 - 0.001	GOIDEDINE - 1	(AI)
JAN	•	.002 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.002 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""></t<></td></t<></td></t<></td></t<>	.002 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""></t<></td></t<></td></t<>	.002 <t< td=""><td>.002 <t< td=""></t<></td></t<>	.002 <t< td=""></t<>
FEB	•	.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<>	.001 <t< td=""><td>.001 <t< td=""></t<></td></t<>	.001 <t< td=""></t<>
MAR	.005	.008	.023	.014	.008	.016
APR	.003 <t< td=""><td>.001 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.002 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<>	.001 <t< td=""><td>.001 <t< td=""></t<></td></t<>	.001 <t< td=""></t<>
MAY	.030	.006	.008	.006	•	•
JUN	.005	.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.002 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.001 <t< td=""><td>.001 <t< td=""><td>.002 <t< td=""></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.001 <t< td=""><td>.002 <t< td=""></t<></td></t<></td></t<>	.001 <t< td=""><td>.002 <t< td=""></t<></td></t<>	.002 <t< td=""></t<>
JUL	.004 <t< td=""><td>.001 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	.002 <t< td=""><td>.002 <t< td=""><td>•</td><td>•</td></t<></td></t<>	.002 <t< td=""><td>•</td><td>•</td></t<>	•	•
AUG	.006	.003 <t< td=""><td>.011</td><td>.003 <t< td=""><td>.003 <t< td=""><td>.004 <t< td=""></t<></td></t<></td></t<></td></t<>	.011	.003 <t< td=""><td>.003 <t< td=""><td>.004 <t< td=""></t<></td></t<></td></t<>	.003 <t< td=""><td>.004 <t< td=""></t<></td></t<>	.004 <t< td=""></t<>
SEP	.002 <t< td=""><td>BDL</td><td>.001 <t< td=""><td>.001 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	BDL	.001 <t< td=""><td>.001 <t< td=""><td>•</td><td>•</td></t<></td></t<>	.001 <t< td=""><td>•</td><td>•</td></t<>	•	•
OCT	.005	.006	.007	.009	•	. •
NOV	.002	.002	.005	.008	.007	.008
DEC	.004 <t< td=""><td>.002 <t< td=""><td>٠</td><td>٠</td><td>.002 <t< td=""><td>.002 <t< td=""></t<></td></t<></td></t<></td></t<>	.002 <t< td=""><td>٠</td><td>٠</td><td>.002 <t< td=""><td>.002 <t< td=""></t<></td></t<></td></t<>	٠	٠	.002 <t< td=""><td>.002 <t< td=""></t<></td></t<>	.002 <t< td=""></t<>
TOTAL NITRAT	ES (MG/L)	DET'N LIM	IT = .020	GUIDELINE = 1	0.000 (A1)
JAN	•	.245	.620	.230	1.280	.300
FEB	•	.275	.435	.270	.695	.275
MAR	.190	.215	.445	.220	.255	.230
APR	.195	.200	.400	.195	.445	.200
MAY	.225	.190	.360	.190	•	•
JUN	.225	.210	.380	.195	.635	.220
JUL	.120	.125	.170	.135	•	٠
AUG	.085 <t< td=""><td>.095 <t< td=""><td>.270</td><td>.105</td><td>.440</td><td>.135</td></t<></td></t<>	.095 <t< td=""><td>.270</td><td>.105</td><td>.440</td><td>.135</td></t<>	.270	.105	.440	.135
SEP	.080 <t< td=""><td>.090 <t< td=""><td>.250</td><td>.095 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	.090 <t< td=""><td>.250</td><td>.095 <t< td=""><td>•</td><td>•</td></t<></td></t<>	.250	.095 <t< td=""><td>•</td><td>•</td></t<>	•	•
OCT	.085 <t< td=""><td>.090 <t< td=""><td>.280</td><td>.090 <t< td=""><td>•</td><td>٩</td></t<></td></t<></td></t<>	.090 <t< td=""><td>.280</td><td>.090 <t< td=""><td>•</td><td>٩</td></t<></td></t<>	.280	.090 <t< td=""><td>•</td><td>٩</td></t<>	•	٩
NOV	.085	.130	.275	.140	1.320	.130
DEC	.305	.285	•	•	.320	.190

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
سر من		***	STANDING	FREE FLOW	STANDING	FREE FLOW
PHOSPHORUS	FIL REACT (MG/L)	DET'N LI	MIT = .0005	GUIDELINE = N	1/A
JAN	•	.001 <t< td=""><td>•</td><td>•</td><td>•</td><td>٠</td></t<>	•	•	•	٠
FEB	•	BDL	•	•	•	•
MAR	.001 <t< td=""><td>.001 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<></td></t<>	.001 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
APR	.002 <t< td=""><td>.000 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<></td></t<>	.000 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
MAY	.003	.000 <t< th=""><th>•</th><th>•</th><th>•</th><th>•</th></t<>	•	•	•	•
JUN	.003	.002 <t< th=""><th>•</th><th>٠</th><th>•</th><th>•</th></t<>	•	٠	•	•
JUL	BDL	.000 <t< th=""><th>•</th><th>•</th><th>•</th><th>•</th></t<>	•	•	•	•
AUG	.002 <t< th=""><th>.002 <t< th=""><th>•</th><th>۵</th><th>•</th><th>•</th></t<></th></t<>	.002 <t< th=""><th>•</th><th>۵</th><th>•</th><th>•</th></t<>	•	۵	•	•
SEP	.000 <t< th=""><th>.000 <t< th=""><th>•</th><th>•</th><th>•</th><th>•</th></t<></th></t<>	.000 <t< th=""><th>•</th><th>•</th><th>•</th><th>•</th></t<>	•	•	•	•
OCT	.001 <t< th=""><th>.001 <t< th=""><th>•</th><th>•</th><th>•</th><th>•</th></t<></th></t<>	.001 <t< th=""><th>•</th><th>•</th><th>•</th><th>•</th></t<>	•	•	•	•
NOV	.001	.000	•	•	•	•
DEC	.005	.001 <t< th=""><th>•</th><th>•</th><th>•</th><th>٠</th></t<>	•	•	•	٠
PHOSPHORUS	TOTAL (MG/L)	DET'N LI	MIT = .002	GUIDELINE = .	.40 (F2)
JAN	•	.003 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
FEB	•	.004 <t< td=""><td>•</td><td>٠</td><td>•</td><td>•</td></t<>	•	٠	•	•
MAR	.008 <t< th=""><th>BDL</th><th>•</th><th>٠</th><th>•</th><th>٠</th></t<>	BDL	•	٠	•	٠
APR	.021	.005 <t< th=""><th>•</th><th>•</th><th>٠</th><th>٥</th></t<>	•	•	٠	٥
MAY	.011	.006 <t< th=""><th>•</th><th>•</th><th>•</th><th>٠</th></t<>	•	•	•	٠
JUN	.017	.005 <t< th=""><th>•</th><th>•</th><th>•</th><th>•</th></t<>	•	•	•	•
JUL	.011	.007 <t< th=""><th>•</th><th>•</th><th>•</th><th>٠</th></t<>	•	•	•	٠
AUG	.004 <t< th=""><th>.002 <t< th=""><th>•</th><th>•</th><th>•</th><th>٠</th></t<></th></t<>	.002 <t< th=""><th>•</th><th>•</th><th>•</th><th>٠</th></t<>	•	•	•	٠
SEP	BDL	BDL	•	•	•	٠
OCT	.015	.007 <t< th=""><th>•</th><th>•. •</th><th>•</th><th>•</th></t<>	•	•. •	•	•
NOV	.013	.016	•	•	•	٥
DEC	.047	.002 <t< th=""><th>•</th><th>•</th><th>•</th><th>٥</th></t<>	•	•	•	٥

DISTRIBUTION SYSTEM

DISTRIBUTION SYSTEM

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	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	METALS					
SILVER	(UG/L)		DET'N LIM	IIT = .020	GUIDELINE = 5	0. (A1)
JAN	•	.030 <t< td=""><td>.030 <t< td=""><td>.020 <t< td=""><td>3.100</td><td>.040 <t< td=""></t<></td></t<></td></t<></td></t<>	.030 <t< td=""><td>.020 <t< td=""><td>3.100</td><td>.040 <t< td=""></t<></td></t<></td></t<>	.020 <t< td=""><td>3.100</td><td>.040 <t< td=""></t<></td></t<>	3.100	.040 <t< td=""></t<>
FEB	•	.050 <t< td=""><td>.030 <t< td=""><td>.020 <t< td=""><td>.580</td><td>.040 <t< td=""></t<></td></t<></td></t<></td></t<>	.030 <t< td=""><td>.020 <t< td=""><td>.580</td><td>.040 <t< td=""></t<></td></t<></td></t<>	.020 <t< td=""><td>.580</td><td>.040 <t< td=""></t<></td></t<>	.580	.040 <t< td=""></t<>
MAR	BDL	.100 <t< td=""><td>.060 <t< td=""><td>.030 <t< td=""><td>.040 <t< td=""><td>BDL</td></t<></td></t<></td></t<></td></t<>	.060 <t< td=""><td>.030 <t< td=""><td>.040 <t< td=""><td>BDL</td></t<></td></t<></td></t<>	.030 <t< td=""><td>.040 <t< td=""><td>BDL</td></t<></td></t<>	.040 <t< td=""><td>BDL</td></t<>	BDL
APR	BDL	BDL	BDL	BDL	BDL	.090 <t< td=""></t<>
MAY	IIS	BDL	BDL	BDL	•	•
JUN	BDL	BDL	BDL	BDL	.070 <t< td=""><td>.040 <t< td=""></t<></td></t<>	.040 <t< td=""></t<>
JUL	BDL	BDL	.050 <t< td=""><td>BDL</td><td>٠</td><td>٠</td></t<>	BDL	٠	٠
AUG	BDL	BDL	.030 <t< td=""><td>BDL</td><td>2.600</td><td>BDL</td></t<>	BDL	2.600	BDL
SEP	.030 <t< td=""><td>.030 <t< td=""><td>. BDL</td><td>.070 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	.030 <t< td=""><td>. BDL</td><td>.070 <t< td=""><td>•</td><td>•</td></t<></td></t<>	. BDL	.070 <t< td=""><td>•</td><td>•</td></t<>	•	•
OCT	BDL	BDL	BDL	.040 <t< td=""><td>•</td><td>•</td></t<>	•	•
NOV	BDL	.030 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td></t<>	BDL	BDL	BDL	BDL
DEC	BDL	BDL	•	•	BDL	BDL
ALUMIN	JM (UG/L)		DET'N LIM	IT = .050	GUIDELINE = 1	.00.(A4)
JAN	•	87.000	81.200	64.960	55.680	54.520
FEB	•	88.160	63.800	56.840	47.560	47.560
MAR	38.280	105.560	88.160	84.680	1.972	70.760
APR	93.960	90.480	80.040	76.560	63.800	73.080
MAY	lis	197.200	162.400	150.800	•	•
JUN	45.240	197.200	162.400	162.400	127.600	116.000
JUL	33.640	406.000	278.400	290.000	•	٠
AUG	22.040	406.000	255.200	278.400	232.000	243.600
SEP	22.040	243.600	197.200	220.400	•	•
oct	52.200	266.800	185.600	185.600	•	•
NOV	139.200	111.360	109.040	105.560	96.280	98.600
DEC	197.200	76.560	•	•	62.640	66.120

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING F	REE FLOW
BORON (UG/	L)		DET'N	LIMIT = 0.200	GUIDELINE = 5000	. (A1)
JAN	•	23.000	23.000	22.000	23.000	22.000
FEB	•	20.000	27.000	20.000	20.000	19.000 <t< td=""></t<>
MAR	21.000	22.000	22.000	21.000	17.000 <t< td=""><td>20.000</td></t<>	20.000
APR	21.000	20.000 <t< td=""><td>20.000</td><td><t 23.000<="" td=""><td>18.000 <t< td=""><td>22.000</td></t<></td></t></td></t<>	20.000	<t 23.000<="" td=""><td>18.000 <t< td=""><td>22.000</td></t<></td></t>	18.000 <t< td=""><td>22.000</td></t<>	22.000
MAY	IIS	20.000 <t< td=""><td>24.000</td><td>19.000 <t< td=""><td>•</td><td>٠</td></t<></td></t<>	24.000	19.000 <t< td=""><td>•</td><td>٠</td></t<>	•	٠
JUN	24.000	35.000	31.000	37.000	25.000	21.000
JUL	21.000	21.000	20.000	T20.000 <t td=""></t>	•	•
AUG	57.000	24.000	24.000	26.000	24.000	40.000
SEP	22.000	21.000	22.000	24.000	•	٠
OCT	24.800	32.000	40.000	41.000	•	•
NOV	66.000	68.000	37.000	25.000	28.000	77.000
DEC	60.000	57.000	•	•	54.000	52.000
BERYLLIUM	(UG/L)		DET'N	LIMIT = 0.010	GUIDELINE = .20	(H)
JAN	•	BDL	BDL	BDL	BDL	BDL
FEB	•	.020 <t< td=""><td>.010</td><td><t bdl<="" td=""><td>.030 <t< td=""><td>BDL</td></t<></td></t></td></t<>	.010	<t bdl<="" td=""><td>.030 <t< td=""><td>BDL</td></t<></td></t>	.030 <t< td=""><td>BDL</td></t<>	BDL
MAR	.010 <t< td=""><td>.030 <t< td=""><td>.030 <</td><td>T.010 < T</td><td>BDL</td><td>.010 <t< td=""></t<></td></t<></td></t<>	.030 <t< td=""><td>.030 <</td><td>T.010 < T</td><td>BDL</td><td>.010 <t< td=""></t<></td></t<>	.030 <	T.010 < T	BDL	.010 <t< td=""></t<>
APR	BDL	.030 <t< td=""><td>BDL</td><td>.020 <t< td=""><td>.020 <t< td=""><td>.050 <t< td=""></t<></td></t<></td></t<></td></t<>	BDL	.020 <t< td=""><td>.020 <t< td=""><td>.050 <t< td=""></t<></td></t<></td></t<>	.020 <t< td=""><td>.050 <t< td=""></t<></td></t<>	.050 <t< td=""></t<>
MAY	IIS	BDL	BDL	BDL	•	٠
JUN	.030 <t< td=""><td>.040 <t< td=""><td>BDL</td><td>.040 <t< td=""><td>.030 <t< td=""><td>BDL</td></t<></td></t<></td></t<></td></t<>	.040 <t< td=""><td>BDL</td><td>.040 <t< td=""><td>.030 <t< td=""><td>BDL</td></t<></td></t<></td></t<>	BDL	.040 <t< td=""><td>.030 <t< td=""><td>BDL</td></t<></td></t<>	.030 <t< td=""><td>BDL</td></t<>	BDL
JUL	BDL	BDL	BDL	BDL	•	•
AUG	.140 <t< td=""><td>BDL</td><td>BDL</td><td>.020 <t< td=""><td>BDL</td><td>BDL</td></t<></td></t<>	BDL	BDL	.020 <t< td=""><td>BDL</td><td>BDL</td></t<>	BDL	BDL
SEP	.020 <t< td=""><td>.020 <t< td=""><td>BDL</td><td>.020 <t< td=""><td>•</td><td>٠</td></t<></td></t<></td></t<>	.020 <t< td=""><td>BDL</td><td>.020 <t< td=""><td>•</td><td>٠</td></t<></td></t<>	BDL	.020 <t< td=""><td>•</td><td>٠</td></t<>	•	٠
OCT	BDL	.020 <t< td=""><td>.030</td><td><t .110="" <t<="" td=""><td>•</td><td>•</td></t></td></t<>	.030	<t .110="" <t<="" td=""><td>•</td><td>•</td></t>	•	•
NOV	.120 <t< td=""><td>.090 <t< td=""><td>BDL</td><td>.020 <t< td=""><td>.080 <t< td=""><td>.070 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.090 <t< td=""><td>BDL</td><td>.020 <t< td=""><td>.080 <t< td=""><td>.070 <t< td=""></t<></td></t<></td></t<></td></t<>	BDL	.020 <t< td=""><td>.080 <t< td=""><td>.070 <t< td=""></t<></td></t<></td></t<>	.080 <t< td=""><td>.070 <t< td=""></t<></td></t<>	.070 <t< td=""></t<>
DEC	.180 <t< td=""><td>.180 <t< td=""><td>•</td><td>•</td><td>.180 <t< td=""><td>.120 <t< td=""></t<></td></t<></td></t<></td></t<>	.180 <t< td=""><td>•</td><td>•</td><td>.180 <t< td=""><td>.120 <t< td=""></t<></td></t<></td></t<>	•	•	.180 <t< td=""><td>.120 <t< td=""></t<></td></t<>	.120 <t< td=""></t<>

	WATER TH	REATMENT PLANT	DISTRIBUTION SYSTEM				
	RAW	TREATED	SITE 1		SITE 2		
		• • • • • • • • • • • • • • • • • • •	STANDING	FREE FLOW	STANDING	FREE FLOW	
CHROMIUM	(UG/L)		DET'N LIM	IT = 0.100	GUIDELINE = 50). (A1)	
JAN	•	.220 <t< td=""><td>.290 <t< td=""><td>.200 <t< td=""><td>4.800</td><td>.190 <t< td=""></t<></td></t<></td></t<></td></t<>	.290 <t< td=""><td>.200 <t< td=""><td>4.800</td><td>.190 <t< td=""></t<></td></t<></td></t<>	.200 <t< td=""><td>4.800</td><td>.190 <t< td=""></t<></td></t<>	4.800	.190 <t< td=""></t<>	
FEB	•	.140 <t< td=""><td>.770 <t< td=""><td>.190 <t< td=""><td>1.200</td><td>.140 <t< td=""></t<></td></t<></td></t<></td></t<>	.770 <t< td=""><td>.190 <t< td=""><td>1.200</td><td>.140 <t< td=""></t<></td></t<></td></t<>	.190 <t< td=""><td>1.200</td><td>.140 <t< td=""></t<></td></t<>	1.200	.140 <t< td=""></t<>	
MAR	.230 <t< td=""><td>.260 <t< td=""><td>.690 <t< td=""><td>.240 <t< td=""><td>.210 <t< td=""><td>.200 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	.260 <t< td=""><td>.690 <t< td=""><td>.240 <t< td=""><td>.210 <t< td=""><td>.200 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.690 <t< td=""><td>.240 <t< td=""><td>.210 <t< td=""><td>.200 <t< td=""></t<></td></t<></td></t<></td></t<>	.240 <t< td=""><td>.210 <t< td=""><td>.200 <t< td=""></t<></td></t<></td></t<>	.210 <t< td=""><td>.200 <t< td=""></t<></td></t<>	.200 <t< td=""></t<>	
APR	.580 <t< td=""><td>.380 <t< td=""><td>.930 <t< td=""><td>1.200</td><td>7.600</td><td>.110 <t< td=""></t<></td></t<></td></t<></td></t<>	.380 <t< td=""><td>.930 <t< td=""><td>1.200</td><td>7.600</td><td>.110 <t< td=""></t<></td></t<></td></t<>	.930 <t< td=""><td>1.200</td><td>7.600</td><td>.110 <t< td=""></t<></td></t<>	1.200	7.600	.110 <t< td=""></t<>	
MAY	!IS	.550 <t< td=""><td>1.000 <t< td=""><td>.530 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	1.000 <t< td=""><td>.530 <t< td=""><td>•</td><td>•</td></t<></td></t<>	.530 <t< td=""><td>•</td><td>•</td></t<>	•	•	
JUN	.320 <t< td=""><td>1.600</td><td>1.100</td><td>1.600</td><td>2.900</td><td>.210 <t< td=""></t<></td></t<>	1.600	1.100	1.600	2.900	.210 <t< td=""></t<>	
JUL	.240 <t< td=""><td>.890 <t< td=""><td>.260 <t< td=""><td>.250 <t< td=""><td>•</td><td>٠</td></t<></td></t<></td></t<></td></t<>	.890 <t< td=""><td>.260 <t< td=""><td>.250 <t< td=""><td>•</td><td>٠</td></t<></td></t<></td></t<>	.260 <t< td=""><td>.250 <t< td=""><td>•</td><td>٠</td></t<></td></t<>	.250 <t< td=""><td>•</td><td>٠</td></t<>	•	٠	
AUG	2.300	.470 <t< td=""><td>.390 <t< td=""><td>.480 <t< td=""><td>1.000 <t< td=""><td>1.400</td></t<></td></t<></td></t<></td></t<>	.390 <t< td=""><td>.480 <t< td=""><td>1.000 <t< td=""><td>1.400</td></t<></td></t<></td></t<>	.480 <t< td=""><td>1.000 <t< td=""><td>1.400</td></t<></td></t<>	1.000 <t< td=""><td>1.400</td></t<>	1.400	
SEP	.180 <t< td=""><td>.220 <t< td=""><td>.130 <t< td=""><td>.320 <t< td=""><td>•</td><td>٠</td></t<></td></t<></td></t<></td></t<>	.220 <t< td=""><td>.130 <t< td=""><td>.320 <t< td=""><td>•</td><td>٠</td></t<></td></t<></td></t<>	.130 <t< td=""><td>.320 <t< td=""><td>•</td><td>٠</td></t<></td></t<>	.320 <t< td=""><td>•</td><td>٠</td></t<>	•	٠	
OCT	.180 <t< td=""><td>3.500</td><td>5.100</td><td>4.600</td><td>•</td><td>•</td></t<>	3.500	5.100	4.600	•	•	
NOV	6.000	5.900	· 1.900	.360 <t< td=""><td>4.400</td><td>9.500</td></t<>	4.400	9.500	
DEC	7.100	6.300	•	•	5.900	5.100	
COPPER (U	JG/L)		DET'N LIMI	IT = .100	GUIDELINE = 10	00 (A3)	
JAN		1.200	19.000	2.900	35.000	10.000	
FEB	•	.950 <t< td=""><td>17.000</td><td>2.700</td><td>26.000</td><td>5.800</td></t<>	17.000	2.700	26.000	5.800	
MAR	.870 <t< td=""><td>.670 <t< td=""><td>11.000</td><td>2.700</td><td>5.500</td><td>5.300</td></t<></td></t<>	.670 <t< td=""><td>11.000</td><td>2.700</td><td>5.500</td><td>5.300</td></t<>	11.000	2.700	5.500	5.300	
APR	1.100	.880 <t< td=""><td>12.000</td><td>2.700</td><td>35.000</td><td>7.000</td></t<>	12.000	2.700	35.000	7.000	
May	IIS	1.100	14.000	3.200	•	0	
JUN	1.100	.770 <t< td=""><td>15.000</td><td>3.800</td><td>44.000</td><td>8.500</td></t<>	15.000	3.800	44.000	8.500	
JUL	1.100	1.100	14.000	3.500	•	٠	
AUG	1.100	.880 <t< td=""><td>15.000</td><td>3.800</td><td>41.000</td><td>8.500</td></t<>	15.000	3.800	41.000	8.500	
SEP	1.100	2.000	15.000	4.100	•	•	
OCT	1.750	.890 <t< td=""><td>16.000</td><td>5.200</td><td>•</td><td>•</td></t<>	16.000	5.200	•	•	
NOV	1.700	1.000 <t< td=""><td>20.000</td><td>5.800</td><td>46.000</td><td>8.700</td></t<>	20.000	5.800	46.000	8.700	
DEC	2.100	1.100	٠	•	43.000	9.300	

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DISTRIBUTION SYSTEM

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	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MANGANESE	(UG/L)		DET'N LI	MIT = .050	GUIDELINE =	50.0 (A3)
JAN	•	.700	33.000	34.000	4.300	4.200
FEB	•	.690	16.000	19.000	3.000	3.300
MAR	2.100	1.000	21.000	21.000	.060 <t< td=""><td>4.700</td></t<>	4.700
APR	4.600	1.000	31.000	27.000	2.800	2.900
MAY	115	1.800	30.000	27.000	. •	•
JUN	5.600	.450 <t< td=""><td>8.300</td><td>8.400</td><td>3.200</td><td>2.900</td></t<>	8.300	8.400	3.200	2.900
JUL	4.500	2.500	7.500	9.700	an an an an an an an tha tha 👫 an an an a	anna Caelarta Caelara 1940 - Starta Caelara
AUG	6.400	1.300	11.000	12.000	2.600	3.200
SEP	4.200	.600	11.000	16.000		•
OCT	11.000	1.500	12.000	14.000		
NOV	16.000	.620	12.000	12.000	2.200	1.900
DEC	30.000	.690	「お宿費」を見 す。主義時、と思		1.900	1.700
MOLYBDENUN	1 (UG/L)		DET'N LI	MIT = 0.020	GUIDELINE = !	500 (H)
JAN	•	1.200	1.200	1.200	1.100	1.100
FEB	•	1.100	1.100	1.000	1.000	.950
MAR	1.100	1.200	1.100	1.100	.870	1.000
APR	.920	.970	1.000	.990	.850	1.100
MAY	lis	1.100	1.200	1.100	•	•
JUN	1.000	1.200	1.100	1.000	1.100	1.100
JUL	1.200	1.200	1.200	1.200	. •	٠
AUG	1.200	1.200	1.300	1.100	1.000	1.100
SEP	1.200	1.300	1.100	1.200	•	٠
OCT	1.100	1.200	1.000	1.200	•	٠
NOV	1.000	1.200	1.100	1.100	1.100	1.100
DEC	.730	1.200	•	•	.940	1.100

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
***	ه خد خد خد چه چه چه خه چې در خد خد چه چې چې د		STANDING	FREE FLOW	STANDING	FREE FLOW
ANTIMONY	(UG/L)		DET'N LII	4IT = .050	GUIDELINE = 14	6. (D4)
JAN	•	.160 <t< td=""><td>. 310</td><td>.430</td><td>.160 <t< td=""><td>.140 <t< td=""></t<></td></t<></td></t<>	. 310	.430	.160 <t< td=""><td>.140 <t< td=""></t<></td></t<>	.140 <t< td=""></t<>
FEB	•	.190 <t< td=""><td>.280</td><td>.280</td><td>.170 <t< td=""><td>.190 <t< td=""></t<></td></t<></td></t<>	.280	.280	.170 <t< td=""><td>.190 <t< td=""></t<></td></t<>	.190 <t< td=""></t<>
MAR	.200	.230	.270	.260	.120 <t< td=""><td>.160 <t< td=""></t<></td></t<>	.160 <t< td=""></t<>
APR	.180 <t< td=""><td>.180 <t< td=""><td>.280</td><td>.230</td><td>.180 <t< td=""><td>.220</td></t<></td></t<></td></t<>	.180 <t< td=""><td>.280</td><td>.230</td><td>.180 <t< td=""><td>.220</td></t<></td></t<>	.280	.230	.180 <t< td=""><td>.220</td></t<>	.220
May	IIS	.220	.360	.290	٠	•
JUN	.180 <t< td=""><td>.200 <t< td=""><td>.240</td><td>.200 <t< td=""><td>.200 <t< td=""><td>.240</td></t<></td></t<></td></t<></td></t<>	.200 <t< td=""><td>.240</td><td>.200 <t< td=""><td>.200 <t< td=""><td>.240</td></t<></td></t<></td></t<>	.240	.200 <t< td=""><td>.200 <t< td=""><td>.240</td></t<></td></t<>	.200 <t< td=""><td>.240</td></t<>	.240
JUL	.210	.220	.250	.200 <t< td=""><td>٠</td><td>•</td></t<>	٠	•
AUG	.770	.740	.750	.730	.750	.650
SEP	.590	.590	.540	.600	٠	•
OCT	.610	.550	.690	.590	٠	٠
NOV	.600	.810	.710	.580	.600	.600
DEC	.260	. 420	•	٠	.380	.380
SELENIUM	(UG/L)	ب هر بن بن هر بنا ها بن بن بن بن بن بن بن	DET'N LIN	4IT = 0.200	GUIDELINE = 10	. (A1)
JAN	•	1.200 <t< td=""><td>.940 <t< td=""><td>1.600 <t< td=""><td>1.100 <t< td=""><td>.770 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.940 <t< td=""><td>1.600 <t< td=""><td>1.100 <t< td=""><td>.770 <t< td=""></t<></td></t<></td></t<></td></t<>	1.600 <t< td=""><td>1.100 <t< td=""><td>.770 <t< td=""></t<></td></t<></td></t<>	1.100 <t< td=""><td>.770 <t< td=""></t<></td></t<>	.770 <t< td=""></t<>
FEB	•	.670 <t< td=""><td>1.100 <t< td=""><td>.920 <t< td=""><td>1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.100 <t< td=""><td>.920 <t< td=""><td>1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<></td></t<>	.920 <t< td=""><td>1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<>	1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<>	1.100 <t< td=""></t<>
MAR	.470 <t< td=""><td>1.000 <t< td=""><td>.850 <t< td=""><td>.970 <t< td=""><td>.380 <t< td=""><td>.220 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>.850 <t< td=""><td>.970 <t< td=""><td>.380 <t< td=""><td>.220 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.850 <t< td=""><td>.970 <t< td=""><td>.380 <t< td=""><td>.220 <t< td=""></t<></td></t<></td></t<></td></t<>	.970 <t< td=""><td>.380 <t< td=""><td>.220 <t< td=""></t<></td></t<></td></t<>	.380 <t< td=""><td>.220 <t< td=""></t<></td></t<>	.220 <t< td=""></t<>
APR	.410 <t< td=""><td>1.100 <t< td=""><td>1.700 <t< td=""><td>2.400 <t< td=""><td>1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	1.100 <t< td=""><td>1.700 <t< td=""><td>2.400 <t< td=""><td>1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.700 <t< td=""><td>2.400 <t< td=""><td>1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<></td></t<>	2.400 <t< td=""><td>1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<></td></t<>	1.100 <t< td=""><td>1.100 <t< td=""></t<></td></t<>	1.100 <t< td=""></t<>
MAY	IIS	2.400 <t< td=""><td>3.400 <t< td=""><td>2.300 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	3.400 <t< td=""><td>2.300 <t< td=""><td>•</td><td>•</td></t<></td></t<>	2.300 <t< td=""><td>•</td><td>•</td></t<>	•	•
JUN	.730 <t< td=""><td>.920 <t< td=""><td>1.200 <t< td=""><td>BDL</td><td>1.400 <t< td=""><td>BDL</td></t<></td></t<></td></t<></td></t<>	.920 <t< td=""><td>1.200 <t< td=""><td>BDL</td><td>1.400 <t< td=""><td>BDL</td></t<></td></t<></td></t<>	1.200 <t< td=""><td>BDL</td><td>1.400 <t< td=""><td>BDL</td></t<></td></t<>	BDL	1.400 <t< td=""><td>BDL</td></t<>	BDL
JUL	1.100 <t< td=""><td>1.800 <t< td=""><td>2.300 <t< td=""><td>2.400 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<></td></t<>	1.800 <t< td=""><td>2.300 <t< td=""><td>2.400 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	2.300 <t< td=""><td>2.400 <t< td=""><td>•</td><td>•</td></t<></td></t<>	2.400 <t< td=""><td>•</td><td>•</td></t<>	•	•
AUG	BDL	BDL	BDL	.890 <t< td=""><td>BDL</td><td>1.500 <t< td=""></t<></td></t<>	BDL	1.500 <t< td=""></t<>
SEP	BDL	.240 <t< td=""><td>.290 <t< td=""><td>2.100 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	.290 <t< td=""><td>2.100 <t< td=""><td>•</td><td>•</td></t<></td></t<>	2.100 <t< td=""><td>•</td><td>•</td></t<>	•	•
OCT	BDL	2.800 <t< td=""><td>5.100 <t< td=""><td>3.000 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	5.100 <t< td=""><td>3.000 <t< td=""><td>•</td><td>•</td></t<></td></t<>	3.000 <t< td=""><td>•</td><td>•</td></t<>	•	•
NOV	.390 <t< td=""><td>2.600 <t< td=""><td>1.900 <t< td=""><td>2.300 <t< td=""><td>1.500 <t< td=""><td>4.900 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	2.600 <t< td=""><td>1.900 <t< td=""><td>2.300 <t< td=""><td>1.500 <t< td=""><td>4.900 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.900 <t< td=""><td>2.300 <t< td=""><td>1.500 <t< td=""><td>4.900 <t< td=""></t<></td></t<></td></t<></td></t<>	2.300 <t< td=""><td>1.500 <t< td=""><td>4.900 <t< td=""></t<></td></t<></td></t<>	1.500 <t< td=""><td>4.900 <t< td=""></t<></td></t<>	4.900 <t< td=""></t<>
DEC	BDL	2.900 <t< td=""><td>•</td><td>•</td><td>1.000 <t< td=""><td>2.300 <t< td=""></t<></td></t<></td></t<>	•	•	1.000 <t< td=""><td>2.300 <t< td=""></t<></td></t<>	2.300 <t< td=""></t<>

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
	***		STANDING	FREE FLOW	STANDING	FREE FLOW
THALLIUM	(UG/L)		DET ' N	LIMIT = .010	GUIDELINE	= 13. (D4)
JAN	•	.020 <t< td=""><td>.010</td><td><t .01<="" td=""><td>0 <t bdl<="" td=""><td>BDL</td></t></td></t></td></t<>	.010	<t .01<="" td=""><td>0 <t bdl<="" td=""><td>BDL</td></t></td></t>	0 <t bdl<="" td=""><td>BDL</td></t>	BDL
FEB	•	.020 <t< td=""><td>.030</td><td><t .010<="" td=""><td><t .020="" <<="" td=""><td>г .010 <т</td></t></td></t></td></t<>	.030	<t .010<="" td=""><td><t .020="" <<="" td=""><td>г .010 <т</td></t></td></t>	<t .020="" <<="" td=""><td>г .010 <т</td></t>	г .010 <т
MAR	.020 <	T .010 <t< td=""><td>.020</td><td><t .02<="" td=""><td>0 <t bdl<="" td=""><td>BDL</td></t></td></t></td></t<>	.020	<t .02<="" td=""><td>0 <t bdl<="" td=""><td>BDL</td></t></td></t>	0 <t bdl<="" td=""><td>BDL</td></t>	BDL
APR	BDL	BDL	BDL	BD	L BDL	BDL
MAY	IIS	BDL	BDL	BD	L.	•
JUN	BDL	BDL	.020	T BDL	BDL	.020 <t< td=""></t<>
JUL	.020 <	T BDL	BDL	.02	0 <t .<="" td=""><td>٠</td></t>	٠
AUG	.020 <	T BDL	.020	<t bd<="" td=""><td>L BDL</td><td>BDL</td></t>	L BDL	BDL
SEP	.020 <	T BDL	BDL	.03	0 <t .<="" td=""><td>•</td></t>	•
OCT	BDL	BDL	BDL	BD	L .	•
NOV	BDL	BDL	BDL	BD	L BDL	BDL
DEC	BDL	BDL	•		- BDL	BDL
URANIUM	(UG/L)		DET'N	LIMIT = .020	GUIDELINE	= 20. (A2)
JAN	•	.340	.360	.34	0.310	. 340
FEB	•	.400	.360	.38	0.360	.350
MAR	.320	.360	.340	.35	.090	<t .290<="" td=""></t>
APR	.310	. 320	.290	.32	0.260	.360
MAY	!IS	.380	.360	.38	ο.	•
JUN	.370	.460	.340	.39	0.330	.400
JUL	.350	. 370	.360	.38	ο.	•
AUG	.380	. 430	.370	.33	0 .380	.360
SEP	.350	.320	.310	.36	ο.	•
OCT	.390	.310	.360	.37	ο.	•
NOV	.320	.300	.290	.33	0.280	.290
DEC	.360	.320	•		290	.280

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	PESTI	CIDES & PCB				
ALPHA BHC	C (NG/L)		DET'N	LIMIT = 1.000	GUIDELINE = 1	700 (G)
JAN	•	2.000 <t< td=""><td></td><td>BDL</td><td></td><td>2.000 <t< td=""></t<></td></t<>		BDL		2.000 <t< td=""></t<>
FEB	•	1.000 <t< td=""><td>•</td><td>2.000 <t< td=""><td>•</td><td>1.000 <t< td=""></t<></td></t<></td></t<>	•	2.000 <t< td=""><td>•</td><td>1.000 <t< td=""></t<></td></t<>	•	1.000 <t< td=""></t<>
MAR	BDL	1.000 <t< td=""><td>•</td><td>INR</td><td>•</td><td>BDL</td></t<>	•	INR	•	BDL
APR	1.000 <t< td=""><td>1.000 <t< td=""><td></td><td>ISM</td><td></td><td>BDL</td></t<></td></t<>	1.000 <t< td=""><td></td><td>ISM</td><td></td><td>BDL</td></t<>		ISM		BDL
MAY	2.000 <t< td=""><td>1.000 <t< td=""><td>•</td><td>2.000 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	1.000 <t< td=""><td>•</td><td>2.000 <t< td=""><td>•</td><td>•</td></t<></td></t<>	•	2.000 <t< td=""><td>•</td><td>•</td></t<>	•	•
JUN	2.000 <t< td=""><td>1.000 <t< td=""><td>•</td><td>1.000 <t< td=""><td>•</td><td>BDL</td></t<></td></t<></td></t<>	1.000 <t< td=""><td>•</td><td>1.000 <t< td=""><td>•</td><td>BDL</td></t<></td></t<>	•	1.000 <t< td=""><td>•</td><td>BDL</td></t<>	•	BDL
JUL	BDL	3.000 <t< td=""><td>•</td><td>BDL</td><td>•</td><td>•</td></t<>	•	BDL	•	•
AUG	1.000 <t< td=""><td>BDL</td><td>•</td><td>ILA</td><td>•</td><td>ILA</td></t<>	BDL	•	ILA	•	ILA
SEP	1.000 <t< td=""><td>BDL</td><td>•</td><td>IRE</td><td>•</td><td>•</td></t<>	BDL	•	IRE	•	•
OCT	BDL	BDL	•	BDL	•	•
NOV	BDL	1.000 <t< td=""><td>•</td><td>BDL</td><td>•</td><td>BDL</td></t<>	•	BDL	•	BDL
DEC	2.000 <t< td=""><td>2.000 <t< td=""><td>•</td><td>•</td><td>•</td><td>1.000 <t< td=""></t<></td></t<></td></t<>	2.000 <t< td=""><td>•</td><td>•</td><td>•</td><td>1.000 <t< td=""></t<></td></t<>	•	•	•	1.000 <t< td=""></t<>
LINDANE (NG/L)	ی ہے جا ہے ہے کر حال ہے جا کر ان کر ان کا ان	DET'N	LIMIT = 1.000	GUIDELINE = 4	4000 (A1)
JAN	•	BDL	•	BDL	•	BDL
FEB	•	BDL	•	BDL	•	BDL
MAR	BDL	BDL	•	INR	•	BDL
APR	BDL	BDL	•	i sm	•	BDL
MAY	BDL	BDL	•	BDL	•	•
JUN	BDL	BDL	•	BDL	•	BDL
JUL	BDL	BDL	•	BDL	•	•
AUG	BDL	BDL	•	!LA	•	!LA
SEP	BDL	BDL	•	IRE	•	•
OCT	BDL	BDL	•	BDL	•	•
NOV	BDL	BDL	•	BDL	•	BDL
DEC	1.000 <t< td=""><td>1.000 <t< td=""><td>•</td><td>•</td><td>•</td><td>BDL</td></t<></td></t<>	1.000 <t< td=""><td>•</td><td>•</td><td>•</td><td>BDL</td></t<>	•	•	•	BDL

DISTRIBUTION SYSTEM

		RAW	TREATED	SITE 1		SITE 2	
				0110	-		
				STANDING	FREE FLOW	STANDING	FREE FLOW
						و و به و و به ه جو و و و و و و و ه	
		VOLATILES					
BENZENE	(UG/L)		DET'N	LIMIT = .050	GUIDELINE = 5	.O (B1)
MAR		BDL	BDL	•	INR	•	BDL
APR		BDL	BDL		BDL	•	BDL
MAY		BDL	BDL	0	BDL	•	•
JUN		BDL	BDL	•	BDL	•	BDL
JUL		BDL	.050 <t< td=""><td>•</td><td>BDL</td><td>•</td><td>•</td></t<>	•	BDL	•	•
AUG		BDL	BDL	۰	BDL	•	BDL
SEP		BDL	BDL	•	BDL	•	
OCT		BDL	BDL	•	BDL	na da series de la composición de la c Composición de la composición de la comp	
NOV		BDL	BDL	•	BDL		BDL
DEC		BDL	BDL.	•	ar an 🍨 an	•	BDL
TOLUENE	(UG/L)	ن چه هه چه ها هه نته صر چه به که هه چه	DET ' N	LIMIT = .050	GUIDELINE = 2	4.0 (B4)
		•					
MAR		BDL	BDL		INR		BDL
APR		BDL	.050 UCS		.050 UCS	2월 - 18월 27 🖡 👘	BDL
MAY		BDL	BDL	•	BDL	•	•
JUN		BDL	BDL		.050 <t< td=""><td>•</td><td>BDL</td></t<>	•	BDL
JUL		BDL	.100 <t< td=""><td>. •</td><td>BDL</td><td>•</td><td>. •</td></t<>	. •	BDL	•	. •
AUG		BDL	BDL		BDL	•	BDL
SEP		BDL	BDL	•	BDL	•	•
OCT		BDL	BDL	•	BDL	•	•
NOV		BDL	BDL	•	BDL	•	BDL
DEC		BDL	.050 <t< td=""><td>•</td><td>•</td><td>•</td><td>.050 <t< td=""></t<></td></t<>	•	•	•	.050 <t< td=""></t<>

DISTRIBUTION SYSTEM

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DISTRIBUTION SYSTEM

	RAW	TREATED	SITE	1	SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
CARBON	TETRACHLORIDE	(UG/L)	DET'I	N LIMIT = .200	GUIDELINE	= 5.0 (D1)
MAR	BDL	BDL		. INR	•	BDL
APR	BDL	BDL		BDL	*	BDL
MAY	BDL	BDL		. BDL	•	•
JUN	BDL	BDL		. BDL	•	BDL
JUL	BDL	BDL		. BDL	•	٥
AUG	BDL	BDL		. BDL	•	BDL
SEP	BDL	BDL		. BDL	•	٥
OCT	BDL	BDL		BDL	•	۵
NOV	BDL	BDL	•	, BDL	•	BDL
DEC	BDL	BDL.	•	•	•	.400 <t< td=""></t<>
DICHLO	ROBROMOMETHANE	(UG/L)	DET'I	N LIMIT = .050	GUIDELINE	= 350 (A1+)
MAR	BDL	14.200		. INR		10.600
APR	BDL	11.850		9.550	•	8.050
MAY	BDL	11.350		. 9.900	•	•
JUN	BDL	12.550		9.500	•	8.400
JUL	BDL	18.100		. 13.650	٠	٠
AUG	BDL	15.900		. 13.800	٠	11.300
SEP	BDL	13.500		. 11.350	•	•
OCT	.800	13.150	•	. 12.400	•	٠
NOV	.100 <	т 11.500		9.450	•	8.700
DEC	BDL	12.650			•	6.800

DISTRIBUTION SYSTEM

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1	SITE 1		
			STANDING	FREE FLOW	STANDING	FREE FLOW
TOTL TRI	HALOMETHANES (UG/L)	DET'N L	IMIT = .500	GUIDELINE = 3	150 (A1)
MAR	BDL	44.300	٠	INR	•	33.200
APR	BDL	37.850	•	30.350	•	24.750
MAY	BDL	33.550	٠	29.600	٠	٥
JUN	BDL	41.150	•	29.800	٠	27.800
JUL	BDL	56.600	•	39.050	٠	٥
AUG	BDL	55.600	•	45.200	•	42.100
SEP	BDL	42.800	•	35.750	•	٠
OCT	2.700 <t< td=""><td>42.850</td><td>•</td><td>38.900</td><td>.•</td><td>٠</td></t<>	42.850	•	38.900	.•	٠
NOV	.500 <t< td=""><td>34.100</td><td>n an Caracteria and an an</td><td>27.350</td><td></td><td>27.000</td></t<>	34.100	n an Caracteria and an	27.350		27.000
DEC	BDL	38.850	•	•	•	21.600

	D	etection	1	
<u>SCAN/PARAMETER</u>	UNIT	<u>LIMIT</u>	GUIDE	LINE
NITRITE	MG/L	.001	1.0	(A1)
TOTAL NITRATES	MG/L	.02	10.	(A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A	()
	DMSNLESS	N/A	6 5-8	5/24)
FH Duachuanus bii delam		···/ A	$\frac{0.3-0}{N}$	J(N4)
PHOSPHORUS FIL REACT	MG/L	.000) S N/M S A	0 (m 0)
PHOSPHORUS TOTAL	MG/L	.004	.4	U(F2)
TOTAL SOLIDS	MG/L	1.	500.	(AJ)
TURBIDITY	FTU	.02	1.0	(A1)
netals				
	•-			
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) 0.2	0 (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		.050	50.	(A3)
MOLYBDENUM		.020	500.	(H)
NTCKEL		100	50	(173)
T.RAD		020	50.	(23)
SFLENTIM		200	10	(21)
		.200	50	(A⊥) />1\
SILVER		1020	, 2000 , 2000	(41)
		.100	2000.	(1)
		.010	· · · · · ·	(04)
	UG/L	.100	N/A	
URANIUM	UG/L	.020	20.	(A2)
VANADIUM	UG/L	.020	100.	(H)
ZINC	UG/L	.020	5000.	(A3)
PHENOLICS				
DUPNATIAS (INPET MEDED DESAMTION)		2	2 0	1321
PHENOLICS (UNFILIERED REACIIVE)	0G/L	• 4	Z .U	(AS)
DECUTOTORS & DOD				
PESTICIDES & PCB				
NT NDTN	NG /T	1 0	700	/ * 1 *
	NG/L	1.0	/00.	(A1)
AMETRING	NG/L	50. 3		(03)
	NG/L	50.	60000.	(83)
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.	(Al)
Alpha Chlordane	NG/L	2.0	7000.	(A1)
GAMMA CHLORDANE	NG/L	2.0	7000.	(Al)
BLADEX	NG/L	100.	10000.	(B3)
DIELDRIN	NG/L	2.0	700.	(A1)
METHOXYCHLOR	NG/L	5.0 1	.00000.	(Al)
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)
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	DETECTION				
SCAN/PARAMETER	UNIT	LIMIT	GUIDE	LINE	
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. 1	.0008	(D3)	
CICP (CHLORPROPHAM)	NG/L	2000. 35	50000.	(G)	
DIALLATE	NG/L	2000. 3	30000.	(H)	
EPTAM	NG/L	2000.	N/A	\/	
IPC	NG/L	2000.	N/A		
PROPOXUR (BAYGON)	NG/L	2000. 9	90000	(G)	
SEVIN (CARBARYL)	NG/L	200. 7	70000.	(21)	
SUTAN (BUTYLATE)	NG/L	2000. 24	15000.	(D3)	
borna (borrana)		2000. 24		(55)	
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.	(84)	
ORTHO-XYLENE		.050	300.	(B4)	
1.1-DICHLOROETHYLENE		. 100	7.0	(D1)	
ETHLYENE DIBROWIDE		.05	50.	(6)	
METHYLENE CHLORIDE		.500	1750.	(03)	
TRANS-1.2-DICHLOPORTHYLENE		.100	350.	(03)	
1.1-DICHLOPOETHANE		. 100	N/A	(55)	
CHLOBORODK		100	350	/A1+\	
		020	200		
		.020	200.		
		200	5.0		
		.200	10.0		
		100	E 0		
DICULOROBONONEMUNE		.100	350		
		.050	350. 2		
CUI ODODI PROVOVETUNIE		.050	250	(04)	
		.100	350.	$(A \perp T)$	
TETRACHLORUEINILENE RRONDRODW		.050	250	(02)	
	UG/L	.200	350.	$(A \perp \tau)$	
1, 1, 2, 2-TETRACHLORUETHANE	UG/L 100/1	.050	1510	(D4) (D2)	
	UG/L	.100	1210.	(03)	
1,9-DICHLOROBSNZENS	UG/L	.100	120	(81)	
1, J-DICHLOKOBENZENE	UG/L	.100	130.	(G)	
1,2-D1CHLOROBENZENE	UG/L	.050	200.	(BI)	
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A		
TOTAL TRIHALOMETHANES	UG/L	.500	350.	(A1)	
STYRENE	UG/L	.05	46.5	(D2)	

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