October 15, 1999

Mr. Paul Kozol
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Re: Monthly Monitoring Report for the Oconomowoc Groundwater Treatment Facility

Dear Mr. Kozol:

Attached is the Monthly Monitoring Report for September, 1999 for the above referenced project. Questions regarding these reports should be directed to James Chang of APL, Inc. at (414) 355-5800.

Thank you for your continued cooperation and assistance with this project.

Sincerely,

Dean Groleau

Dean Groleau, Plant Superintendent
APL, Inc.

cc: Steven Brossart, USACE, St. Paul District
Steve Padovani, USEPA
James Chang, APL, Inc.
David Brodzinski, WDNR, Horicon

8222 W. Calumet Road, P. O. Box 23785, Milwaukee, WI 53223 (414) 355-5800 • Fax#: (414) 355-3099
Wisconsin Dept. of Natural Resources Certificate #241340550

MONTHLY MONITORING REPORT
FOR THE
OCONOMOWOC ELECTROPLATING
GROUNDWATER TREATMENT FACILITY

ASHIPPUN, WISCONSIN 53003

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
ST. PAUL DISTRICT
WINONA, MINNESOTA
CONTRACT DACW37-98-C-0009

Prepared by:

APL, Inc.
8222 West Calumet Road
Milwaukee, WI 53223

October 15, 1999

1.0 Introduction

This report summarizes the monthly effluent monitoring results for the Oconomowoc Electroplating Groundwater Treatment Plant (OEGTP) for September, 1999. The OEGTP is located at the site of the former Oconomowoc Electroplating Company, in Ashippun, WI.

Laboratory results of effluent sampling can be found in the Discharge Monitoring Report Form, sent under separate cover. The effluent sampling was conducted by Scott Harrison, Tony Goodman, and Dave Dugan of APL, Inc. Laboratory analysis was provided by APL, Inc., 8222 W. Calumet Road, Milwaukee WI 53223. All sampling and analyses were conducted in accordance with the Oconomowoc Electroplating Groundwater Treatment System's Chemical Data Acquisition Plan (CDAP). The parameters tested for, frequency of testing, sample type, and limits are set forth in the Final Discharge Limits, Table 1 of the Oconomowoc Electroplating Superfund Site Limits and Requirements for Discharge of Treated Groundwater, issued by the Wisconsin Department of Natural Resources (WDNR) on September 24, 1996. This report is submitted in accordance with the reporting requirements of the WDNR permit.

1.1 Site Background Review

The OEGTP is located at 2572 Oak Street in Ashippun, Wisconsin, in the NW 1/4 of the SE 1/4 of Section 30, Township 30 North, Range 17 East. The site consists of approximately 10 acres, which includes approximately 3.5 acres of the former electroplating facility. The site is bounded by Oak Street (Highway 'O') and Eva Street to the North, and Davey Creek and the Town of Ashippun's garage facilities to the South. The property directly across Oak Street is occupied by Thermogas, Inc. A residential area is located across Eva Street, and a wetlands surrounds Davey Creek.

The contact person is Steven Brossart of the U.S. Army Corps of Engineers (USACE). Mr. Brossart's phone number is (507) 454-6150, Fax (507) 454-4963. APL, Inc. is contracted by the USACE to operate and maintain the plant. The contact for the Treatment Plant is Dean Groleau who can be reached at (920) 474-3212, Fax (920) 474-4241. The contact for APL, Inc. is James Chang, who can be reached at (414) 355-5800, Fax (414) 355-3099.

1.2 Project Objectives

The objective of this project is to prevent the spreading of any plume of contamination that may exist at the site. Contaminated groundwater is pumped from five extraction wells, treated for cyanide, metals, suspended solids, and volatile organic compounds (VOC's). The treated water is then transferred to a groundwater effluent gallery, located south of Elm Street, near Davey Creek.

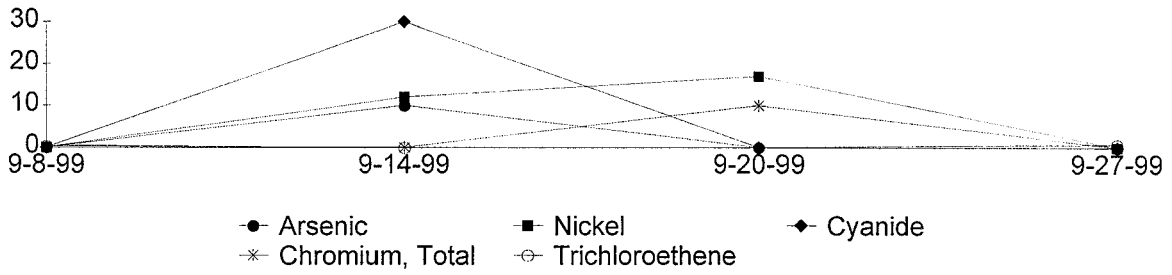
1.3 Effluent Monitoring

Weekly monitoring was conducted on September 8, 14, 20, and 27. The weekly samples for September were tested by APL, Inc. The results of the effluent monitoring tests for the samples taken on September showed exceedences of the WDNR effluent discharge permit for Arsenic on the September 14 sampling and TCE on September 27. The possible cause of the high levels of Arsenic and TCE are discussed in Section 2.0.

1.4 Monitoring Results

Results from weekly effluent monitoring can be found in the *Discharge Monitoring Report Form*, sent under a separate cover. Chart 1, below, shows the results of effluent monitoring for five important indicator parameters listed in the Monitoring Requirements of the *Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96).*

Chart 1 - 5 Important Indicator Parameters



1.5 Extraction Well Monitoring

A third round of Extraction Well sampling was conducted on September 9. The Extraction Well sampling will be conducted on a quarterly basis. The results of the Extraction Wells' analyses are enclosed with this report.

1.6 Monitoring Well Sampling

Another round of Monitoring Well sampling was conducted on September 13, 15, 20, and 23. The Monitoring Well sampling is conducted on a quarterly basis. The results of the Monitoring Wells' analyses are enclosed with this report.

2.0 Plant Permit Exceedences

The high level of Arsenic on the September 14 sampling may be due to the rehabilitation of the Extraction Wells (EW-1, 2, 4, & 5). The flow into the treatment plant has increased and remains more constant than it has since the initial start-up. Evidence that the water table level has dropped can be seen from the Monitoring Well levels and evidence that the contaminated plume has moved can be seen from the Monitoring Well and Extraction Well sampling results. The treatment plant's limit for Arsenic is 0.5 ug/l and the September 14 sampling result was 10.0 ug/l. The sampling conducted on September 20 showed no Arsenic detected.

The high level of TCE may be due to the life span of the activated Carbon being close to it's change out time. Paul Kozol, of the WDNR, authorized continued plant operations until the TCE level is equal to or > 1.5 ug/l. The treatment plant's limit for TCE is 0.5 ug/l and the September 27 sampling result was 0.76 ug/l.

3.0 Treatment Plant Shut Downs

The Treatment Plant was shut down two times for a total of 40.25 hours in September, 1999. The shut downs were due to the Motor Operated Valve Left Closed and Scheduled Maintenance. Table 1 shows the summary of the plant down times for the month of September, 1999.

Table 1 - Plant Down Time Summary

Date(s)	Number Hours Shut Down	Reason
9/12-13	16.25	MOV-711 Left Closed
9/21-22	24	Scheduled Maintenance Shut Down
TOTAL	**40.25**	

3.1 Shut Down Due To MOV-711 Left Closed

The Sunday operator, on September 12, forgot to put the MOV-711 switch back in the Auto mode after performing an effluent backwash on the Tertiary Filter (TF-600). The treatment plant shut down at 1:30 P.M. and was not discovered until the operator arrived for work on September 13. The operator put the MOV-711 switch back in the Auto mode and activated the Effluent Transfer Pump (ETP-710) to speed up the emptying of the Effluent Holding Tank (EHT-700). At 5:45 A.M., the treatment plant restarted after the EHT-700 reached <75%. APL, WDNR, and USACE were notified. The total down time was 16.25 hours. On September 27, James Chang, of APL, Inc., installed a strobe light on the MOV-711 switch that is activated whenever the switch is closed manually. This modification was installed to remind the operators to put the MOV-711 switch back in the Auto mode after performing an effluent backwash on the TF-600.

3.2 Shut Down Due To Scheduled Maintenance

On September 21, the treatment plant was shut down at 10:30 A.M. to perform scheduled maintenance. Equipment worked on and work performed included resealing the Diffused Air Stripper (DAS-500) sump lip, replacing corroded metal piping from the NPDES Monitoring Station and Composite Sampler, acid cleaning the Tertiary Filtration System (TF-600), auguring out the discharge line from the Cyanide Reaction Tank (CRT-211) to the Rapid Mix Tank (RMT-301), cleaning out the entire Metals Package, replacing the auger seal for the Clarifier's Thickener Drive (TD-401), replacing the flexible connector for the Equalization Tank Solids Pump (ESP-120), replacing the discharge valve for the Granulated Activated Carbon Filters Feed Pump (GFP-620), replacing the valve for the Motor Operated Valve (MOV-523), and replacing leaking fittings for Sodium Hypochlorite Pump (SCP-251). Work that is still pending and will need to rescheduled for a later time is replacing the drain valve on the Tertiary Filtration Holding Tank (TFT-601), replacing the back pressure valve on the Sodium Hypochlorite Pump (SCP-251), changing the Carbon in the Granulated Activated Carbon Filters (GAC-650/651),

inspecting the effluent gallery in GAC-651, modifying the discharge line from ESP-120/121, and replacing a gasket on MOV-711. The treatment plant was restarted at 10:30 A.M. on September 22. The total down time was 24 hours.

4.0 Summary

Groundwater Treatment Plant effluent monitoring was conducted on September 8, 14, 20, and 27 of 1999. On September 9, the Extraction Wells were sampled and the Monitoring Wells were sampled on September 13, 15, 20, & 23. The laboratory results of these samples show that all contaminants listed in the Requirements of the *Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96)* comply with the permit except for TCE and Arsenic. See Chart 1, Section 1.4 for *Important Indicator Parameters*.

During the month of September, 1999, the plant was shut down two times for a total of 40.25 hours. See Table 1, Section 3.0 for shut down times. All equipment operation and maintenance related issues are detailed in a separate report, entitled "*Monthly Operation and Maintenance Report for the Oconomowoc Electroplating Groundwater Treatment Facility*". That report will be submitted by October 15, 1999.

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	9-8-99	
Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	6.9	11	N/A	N/A	8.1	Monitor	
TSS	1	NT	NT	NT	ND	Monitor	mg/l
Arsenic	10	ND	NT	NT	ND	5	
Barium	110	20	NT	NT	6	400	
Cadmium	ND	ND	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	ND	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	ND	ND	NT	NT	ND	10	
Copper	ND	ND	NT	NT	ND	Monitor	
Iron	980	180	NT	NT	350	Monitor	
Lead	12	ND	NT	NT	ND	1.5	
Manganese	190	10	NT	NT	4	Monitor	
Mercury	ND	ND	NT	NT	ND	0.2	
Nickel	50	20	NT	NT	ND	20	
Selenium	ND	ND	NT	NT	ND	10	
Silver	ND	ND	NT	NT	ND	10	
Thallium	ND	ND	NT	NT	ND	0.4	
Zinc	ND	20	NT	NT	20	Monitor	
Cyanide	10	ND	NT	NT	ND	40	
Cyanide Free	ND	ND	NT	NT	ND	Monitor	
1,1-Dichloroethane	29	14	ND	NT	ND	85	
1,2-Dichloroethane	ND	ND	ND	NT	ND	0.5	
1,1-Dichloroethene	13	2.6	ND	NT	ND	0.7	
1,2-Dichloroethene Cis	54	24	0.38	NT	ND	7	
1,2-Dichloroethene Trans	20	5.6	ND	NT	ND	20	
Ethylbenzene	ND	ND	ND	NT	ND	140	
Methylene Chloride	ND	ND	ND	NT	ND	0.5	
Tetrachloroethene	8.3	2.1	ND	NT	ND	0.5	
Toluene	ND	ND	ND	NT	ND	68	
1,1,1-Trichloroethane	214	65	0.38	NT	ND	40	
1,1,2-Trichloroethane	ND	ND	ND	NT	ND	0.5	
TCE	573	203	1.7	NT	0.39	0.5	
Vinyl Chloride	2.4	1.1	ND	NT	ND	0.2	
Xylene Total	ND	ND	ND	NT	ND	124	
COD	24	NT	NT	NT	ND	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	ND	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	0.35	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	0.38	Monitor	mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	9-14-99	
Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.3	11	N/A	N/A	8.7	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	14	NT	NT	NT	10	5	
Barium	90	NT	NT	NT	10	400	
Cadmium	ND	NT	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	NT	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	ND	NT	NT	NT	ND	10	
Copper	20	NT	NT	NT	10	Monitor	
Iron	1000	NT	NT	NT	200	Monitor	
Lead	3.9	NT	NT	NT	ND	1.5	
Manganese	100	NT	NT	NT	ND	Monitor	
Mercury	ND	NT	NT	NT	ND	0.2	
Nickel	12	NT	NT	NT	12	20	
Selenium	ND	NT	NT	NT	ND	10	
Silver	ND	NT	NT	NT	ND	10	
Thallium	ND	NT	NT	NT	ND	0.4	
Zinc	ND	NT	NT	NT	20	Monitor	
Cyanide	10	NT	NT	NT	30	40	
Cyanide Free	ND	NT	NT	NT	ND	Monitor	
1,1-Dichloroethane	30	NT	ND	NT	ND	85	
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5	
1,1-Dichloroethene	5.8	NT	ND	NT	ND	0.7	
1,2-Dichloroethene Cis	43	NT	ND	NT	ND	7	
1,2-Dichloroethene Trans	4	NT	ND	NT	ND	20	
Ethylbenzene	ND	NT	ND	NT	ND	140	
Methylene Chloride	ND	NT	ND	NT	ND	0.5	
Tetrachloroethene	ND	NT	ND	NT	ND	0.5	
Toluene	ND	NT	ND	NT	ND	68	
1,1,1-Trichloroethane	100	NT	ND	NT	ND	40	
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5	
TCE	351	NT	0.67	NT	ND	0.5	
Vinyl Chloride	ND	NT	ND	NT	ND	0.2	
Xylene Total	ND	NT	ND	NT	ND	124	
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	9-20-99	
Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.4	11	N/A	N/A	8.6	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	13	NT	NT	NT	ND	5	
Barium	110	NT	NT	NT	20	400	
Cadmium	ND	NT	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	NT	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	ND	NT	NT	NT	10	10	
Copper	ND	NT	NT	NT	ND	Monitor	
Iron	1000	NT	NT	NT	340	Monitor	
Lead	ND	NT	NT	NT	ND	1.5	
Manganese	190	NT	NT	NT	4	Monitor	
Mercury	ND	NT	NT	NT	ND	0.2	
Nickel	40	NT	NT	NT	17	20	
Selenium	18	NT	NT	NT	ND	10	
Silver	ND	NT	NT	NT	ND	10	
Thallium	ND	NT	NT	NT	ND	0.4	
Zinc	ND	NT	NT	NT	20	Monitor	
Cyanide	10	NT	NT	NT	ND	40	
Cyanide Free	ND	NT	NT	NT	ND	Monitor	
1,1-Dichloroethane	29	NT	ND	NT	ND	85	
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5	
1,1-Dichloroethene	19	NT	ND	NT	ND	0.7	
1,2-Dichloroethene Cis	54	NT	ND	NT	ND	7	
1,2-Dichloroethene Trans	18	NT	ND	NT	ND	20	
Ethylbenzene	ND	NT	ND	NT	ND	140	
Methylene Chloride	ND	NT	ND	NT	ND	0.5	
Tetrachloroethene	7.2	NT	ND	NT	ND	0.5	
Toluene	ND	NT	ND	NT	ND	68	
1,1,1-Trichloroethane	267	NT	ND	NT	ND	40	
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5	
TCE	656	NT	0.93	NT	ND	0.5	
Vinyl Chloride	2.9	NT	ND	NT	ND	0.2	
Xylene Total	ND	NT	ND	NT	ND	124	
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	9-27-99	
Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.1	9.8	N/A	N/A	NT	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	ND	NT	NT	NT	ND	5	
Barium	100	NT	NT	NT	20	400	
Cadmium	ND	NT	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	NT	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	ND	NT	NT	NT	ND	10	
Copper	ND	NT	NT	NT	10	Monitor	
Iron	880	NT	NT	NT	180	Monitor	
Lead	ND	NT	NT	NT	ND	1.5	
Manganese	160	NT	NT	NT	ND	Monitor	
Mercury	ND	NT	NT	NT	ND	0.2	
Nickel	30	NT	NT	NT	ND	20	
Selenium	25	NT	NT	NT	ND	10	
Silver	ND	NT	NT	NT	ND	10	
Thallium	ND	NT	NT	NT	ND	0.4	
Zinc	20	NT	NT	NT	20	Monitor	
Cyanide	ND	NT	NT	NT	ND	40	
Cyanide Free	ND	NT	NT	NT	ND	Monitor	
1,1-Dichloroethane	31	NT	ND	NT	ND	85	
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5	
1,1-Dichloroethene	5.4	NT	ND	NT	ND	0.7	
1,2-Dichloroethene Cis	42	NT	ND	NT	ND	7	
1,2-Dichloroethene Trans	4.5	NT	ND	NT	ND	20	
Ethylbenzene	ND	NT	ND	NT	ND	140	
Methylene Chloride	ND	NT	3.8	NT	ND	0.5	
Tetrachloroethene	ND	NT	ND	NT	ND	0.5	
Toluene	ND	NT	ND	NT	ND	68	
1,1,1-Trichloroethane	103	NT	ND	NT	0.29	40	
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5	
TCE	365	NT	ND	NT	0.76	0.5	
Vinyl Chloride	ND	NT	ND	NT	ND	0.2	
Xylene Total	ND	NT	ND	NT	ND	124	
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT

EXTRACTION WELLS					Date:	(ug/l) SEPT.99
Parameter	EW-1	EW-2	EW-3	EW-4	EW-5	WW-1
pH	7.3	7.3	7.2	7.1	7.3	7.5
Arsenic	ND	ND	ND	ND	ND	ND
Barium	80	80	140	140	100	390
Cadmium	ND	ND	ND	ND	ND	ND
Cadmium Total Recoverable	ND	ND	ND	ND	ND	ND
Chromium +6	ND	ND	ND	ND	ND	ND
Chromium Total	ND	ND	ND	ND	ND	ND
Copper	10	20	ND	ND	10	20
Iron	630	1100	2000	440	2000	4500
Lead	3.3	9.3	7.1	1.5	4.7	ND
Manganese	280	110	80	350	80	80
Mercury	ND	ND	ND	ND	ND	ND
Nickel	40	15	ND	120	ND	ND
Selenium	43	49	29	17	33	ND
Silver	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND
Zinc	30	50	50	20	40	60
Cyanide	ND	ND	ND	9	20	ND
Cyanide Free	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	4	21	29	95	ND
1,2-Dichloroethane	ND	ND	ND	ND	6.2	ND
1,1-Dichloroethene	ND	ND	5	39	18	ND
1,2-Dichloroethene Cis	0.89	19	38	114	110	ND
1,2-Dichloroethene Trans	ND	7.6	2.6	79	16	ND
Ethylbenzene	ND	ND	ND	ND	4.2	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	41	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	0.74	10	766	332	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
TCE	0.79	27	181	1600	950	ND
Vinyl Chloride	ND	ND	0.7	8.6	9.4	ND
Methyl-T-Butyl Ether	0.4	0.44	ND	ND	ND	ND
Chlorobenzene	0.56	0.7	0.52	ND	8.8	0.52
Chloroform	ND	0.62	ND	ND	5.8	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	4.8	ND
1,2-Dichloropropane	ND	ND	ND	ND	5.6	ND
1,3-Dichloropropane	ND	ND	ND	ND	5	ND
Benzene	ND	ND	ND	ND	6.2	ND
Dichlorodifluoromethane	ND	ND	ND	ND	8.8	ND
Trichlorodifluoromethane	ND	ND	ND	7.6	11	ND
Xylene Total	ND	ND	ND	ND	ND	ND

OCONOMOWOC GROUNDWATER TREATMENT PLANT

MONITORING WELL					Date:	(ug/l) SEPT.1999	
Parameter	MW02DP	MW03SP	MW05P	MW05DP	MW06P	MW11BP	
pH	7.01	DRY	DRY	7.69	7.37	COVERED	
Conductivity	1057	NT	NT	636	NT	NT	uMHOS/CM
Arsenic	ND	NT	NT		NT	NT	
Barium	60	NT	NT	70	NT	NT	
Cadmium	ND	NT	NT	ND	NT	NT	
Cadmium Total Recoverable	ND	NT	NT	ND	NT	NT	
Chromium +6	ND	NT	NT	ND	NT	NT	
Chromium Total	ND	NT	NT	50	NT	NT	
Copper	ND	NT	NT	10	NT	NT	
Iron	1700	NT	NT	4400	NT	NT	
Lead	ND	NT	NT	ND	NT	NT	
Manganese	50	NT	NT	100	NT	NT	
Mercury	ND	NT	NT	ND	NT	NT	
Nickel	ND	NT	NT	30	NT	NT	
Selenium	ND	NT	NT	ND	NT	NT	
Silver	ND	NT	NT	ND	NT	NT	
Thallium	5.7	NT	NT	ND	NT	NT	
Zinc	30	NT	NT	480	NT	NT	
Cyanide	7	NT	NT	ND	NT	NT	
Cyanide Free	ND	NT	NT	ND	NT	NT	
1,1-Dichloroethane	0.57	NT	NT	48	NT	NT	
1,2-Dichloroethane	ND	NT	NT	2.1	NT	NT	
1,1-Dichloroethene	ND	NT	NT	5	NT	NT	
1,2-Dichloroethene Cis	1	NT	NT	48	NT	NT	
1,2-Dichloroethene Trans	ND	NT	NT	2.5	NT	NT	
Ethylbenzene	ND	NT	NT	ND	NT	NT	
Methylene Chloride	ND	NT	NT	ND	NT	NT	
Tetrachloroethene	ND	NT	NT	ND	NT	NT	
Toluene	ND	NT	NT	ND	NT	NT	
1,1,1-Trichloroethane	ND	NT	NT	ND	NT	NT	
1,1,2-Trichloroethane	ND	NT	NT	ND	NT	NT	
TCE	0.37	NT	NT	530	NT	NT	
Vinyl Chloride	ND	NT	NT	3.5	NT	NT	
Xylene Total	ND	NT	NT	ND	NT	NT	
Temperature (C)	12.3	NT	NT	12.7	16.5	NT	

MW05P, MW06P, & MW03SP Were Too Dry To Sample.

OCONOMOWOC GROUNDWATER TREATMENT PLANT

MONITORING WELL					Date:	(ug/l) SEPT.1999	
Parameter	MW12BP	MW12DP	MW13SP	MW14DP	MW15DP	MW16SP	
pH	7.38	7.5	6.79	6.82	7.39	8.98	
Conductivity	887	1061	939	490	889	1585	uMHOS/CM
Arsenic	ND	ND	ND	ND	ND	ND	
Barium	60	110	140	40	100	190	
Cadmium	ND	ND	ND	ND	ND	5	
Cadmium Total Recoverable	ND	ND	ND	ND	ND	2	
Chromium +6	10	8	10	ND	ND	ND	
Chromium Total	20	50	1600	ND	20	280	
Copper	10	6600	120	ND	30	170	
Iron	740	6600	66000	280	650	115000	
Lead	5.2	2.6	6.5	4.3	2.1	ND	
Manganese	90	100	640	70	300	1800	
Mercury	ND	ND	ND	0.4	0.2	ND	
Nickel	20	130	220	ND	ND	340	
Selenium	ND	7.9	21	18	ND	ND	
Silver	ND	ND	ND	ND	ND	ND	
Thallium	ND	5.2	ND	ND	ND	ND	
Zinc	20	ND	170	10	20	ND	
Cyanide	ND	10	20	ND	ND	ND	
Cyanide Free	ND	ND	20	ND	ND	ND	
1,1-Dichloroethane	ND	0.28	ND	ND	ND	ND	
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.55	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethene Cis	ND	0.42	ND	ND	3.5	197	
1,2-Dichloroethene Trans	ND	ND	ND	ND	0.44	2.9	
Ethylbenzene	ND	ND	ND	ND	ND	ND	
Methylene Chloride	ND	2.5	ND	ND	ND	ND	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	
Toluene	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	ND	0.57	ND	ND	ND	ND	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	
TCE	ND	2.1	0.44	ND	29	0.78	
Vinyl Chloride	ND	ND	ND	ND	ND	ND	
Xylene Total	ND	ND	ND	ND	ND	ND	
Temperature (C)	13.9	12..7	14.7	13.6	14.5	15.9	

MONITOR WELL DEPTHS

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS		WATER LEVEL		FEET		
DATE	MW02DP	MW03SP	MW05P	MW05DP	MW06P	MW11BP
July 31, 1998	6.64	DRY	3.74	4.26	8.00	COVERED
Aug. 31, 1998	7.70	DRY	DRY	5.34	8.70	COVERED
Sept. 17, 1998	7.50	DRY	DRY	5.00	8.66	COVERED
Oct. 7, 1998	6.50	DRY	3.75	4.10	8.34	COVERED
Nov. 23, 1998	6.66	DRY	DRY	4.37	8.17	COVERED
Dec. 15, 1998	5.90	DRY	3.40	3.75	8.20	COVERED
Jan. 18, 1999	6.60	DRY	3.75	4.72	8.25	COVERED
Feb. 3, 1999	5.36	6.10	3.15	2.90	7.15	COVERED
Mar. 3-4, 1999	5.51	DRY	3.20	3.04	7.40	COVERED
Apr. 15, 1999	5.30	6.20	3.25	4.40	6.92	COVERED
May 10, 1999	5.50	6.35	3.35	3.40	7.05	COVERED
June 18, 1999	4.95	6.05	3.00	3.22	6.81	COVERED
July 13, 1999	6.30	DRY	3.80	4.05	7.90	COVERED
August 06, 1999	6.37	DRY	3.58	4.00	7.65	COVERED
Sept. 15, 20, 1999	7.68	DRY	DRY	5.60	DRY	COVERED

MONITOR WELL DEPTHS

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS		WATER LEVEL	FEET			
DATE	MW12BP	MW12DP	MW13SP	MW14DP	MW15DP	MW16SP
July 31, 1998	4.75	3.78	5.75	4.80	10.49	UNACCESS.
Aug. 31, 1998	5.64	4.48	6.38	4.80	11.64	UNACCESS.
Sept. 17, 1998	5.35	3.20	6.31	4.86	11.10	UNACCESS.
Oct. 7, 1998	4.75	3.65	5.79	4.75	10.60	UNACCESS.
Nov. 23, 1998	4.73	3.70	5.82	4.56	10.46	UNACCESS.
Dec. 15, 1998	4.10	3.00	5.85	4.70	9.95	UNACCESS.
Jan. 18, 1999	4.70	3.70	5.70	5.00	10.50	UNACCESS.
Feb. 3, 1999	3.50	2.48	4.85	3.00	9.27	UNACCESS.
Mar. 3-4, & 16, 1999	3.50	2.70	5.15	3.40	9.20	2.95
Apr. 15,1999	3.61	3.20	4.84	2.60	9.25	2.63
May 10, 1999	3.85	3.05	4.95	2.80	9.45	3.80
June 18, 1999	3.71	3.75	4.87	2.49	9.29	2.81
July 13-14, 1999	4.50	3.65	5.74	3.82	10.19	3.05
August 06, 1999	4.62	3.59	5.48	3.26	10.17	3.32
Sept.13,15,20,23,' 99	6.00	4.90	6.51	4.80	10.95	4.17

FLOW FROM EXTRACTION WELLS

YEAR: 1999

MONTH:SEPT. DAY	FE-100 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	803,473.10	26,098.90	0.026	
2	829,572.00	37,824.90	0.038	
3	867,396.90	26,543.90	0.027	
4	893,940.80	31,184.30	0.031	
5	925,125.10	31,427.10	0.031	
6	956,552.20	36,749.90	0.037	
7	993,302.10	33,790.90	0.034	
8	1,027,093.00	30,114.00	0.030	
9	1,057,207.00	24,358.00	0.024	
10	1,081,565.00	25,139.00	0.025	
11	1,106,704.00	31,252.00	0.031	
12	1,137,956.00	11,450.00	0.011	SHUT DOWN
13	1,149,406.00	28,451.00	0.028	SHUT DOWN
14	1,177,857.00	31,268.00	0.031	
15	1,209,125.00	27,651.00	0.028	
16	1,236,776.00	31,662.00	0.032	
17	1,268,438.00	21,063.00	0.021	
18	1,289,501.00	36,472.00	0.036	
19	1,325,973.00	38,793.00	0.039	
20	1,364,766.00	18,751.00	0.019	
21	1,383,517.00	6,099.00	0.006	SHUT DOWN
22	1,389,616.00	31,553.00	0.032	SHUT DOWN
23	1,421,169.00	31,718.00	0.032	
24	1,452,887.00	30,253.00	0.030	
25	1,483,140.00	27,315.00	0.027	
26	1,510,455.00	31,332.00	0.031	
27	1,541,787.00	32,480.00	0.032	
28	1,574,267.00	36,669.00	0.037	
29	1,610,936.00	28,218.00	0.028	
30	1,639,154.00	36,875.00	0.037	
October 01	1,676,029.00			
		TOTAL	0.871	
		AVERAGE	0.029	

FLOW FROM EQT-100

YEAR: 1999

MONTH: SEPT. DAY	FE-112 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	2,763,956.00	30,616.00	0.031	
2	2,794,572.00	44,848.00	0.045	
3	2,839,420.00	31,841.00	0.032	
4	2,871,261.00	37,141.00	0.037	
5	2,908,402.00	37,505.00	0.038	
6	2,945,907.00	44,395.00	0.044	
7	2,990,302.00	42,657.00	0.043	
8	3,032,959.00	41,156.00	0.041	
9	3,074,115.00	44,773.00	0.045	
10	3,118,888.00	27,895.00	0.028	
11	3,146,783.00	34,684.00	0.035	SHUT DOWN
12	3,181,467.00	22,018.00	0.022	SHUT DOWN
13	3,203,485.00	36,064.00	0.036	
14	3,239,549.00	38,359.00	0.038	
15	3,277,908.00	31,269.00	0.031	
16	3,309,177.00	36,478.00	0.036	
17	3,345,655.00	25,868.00	0.026	
18	3,371,523.00	41,604.00	0.042	
19	3,413,127.00	42,345.00	0.042	
20	3,455,472.00	36,396.00	0.036	
21	3,491,868.00	20,114.00	0.020	SHUT DOWN
22	3,511,982.00	30,984.00	0.031	SHUT DOWN
23	3,542,966.00	41,050.00	0.041	
24	3,584,016.00	32,694.00	0.033	
25	3,616,710.00	30,923.00	0.031	
26	3,647,633.00	42,948.00	0.043	
27	3,690,581.00	39,999.00	0.040	
28	3,730,580.00	40,120.00	0.040	
29	3,770,700.00	31,089.00	0.031	
30	3,801,789.00	41,421.00	0.041	
October 01	3,843,210.00			
		TOTAL	1.079	
		AVERAGE	0.036	

EFFLUENT FLOW FROM PLANT

YEAR: 1999

MONTH: SEPT. DAY	NPDES STATION TOTALIZER	TOTAL DAY'S FLOW (GAL.)	X2	DAILY FLOW MGD	
1	424,246.20	11685.50	23,371.00	0.023	
2	435,931.70	17580.50	35,161.00	0.023	
3	453,512.20	15343.20	30,686.40	0.031	
4	468,855.40	16972.20	33,944.40	0.034	
5	485,827.60	17405.60	34,811.20	0.035	
6	503,233.20	18217.10	36,434.20	0.036	
7	521,450.30	18271.80	36,543.60	0.037	
8	539,722.10	15435.00	30,870.00	0.031	
9	555,157.10	15938.20	31,876.40	0.032	
10	571,095.30	12942.80	25885.60	0.026	
11	584,038.10	15384.60	30769.20	0.031	
12	599,422.70	5638.10	11276.20	0.011	SHUT DOWN
13	605,060.80	15329.50	30659.00	0.031	SHUT DOWN
14	620,390.30	16426.70	32853.40	0.033	
15	636,817.00	13843.10	27686.20	0.028	
16	650,660.10	16113.20	32226.40	0.032	
17	666,773.30	12525.90	25051.80	0.025	
18	679,299.20	17130.40	34260.80	0.034	
19	696,429.60	14894.40	29788.80	0.030	
20	711,324.00	15907.20	31814.40	0.032	
21	727,231.20	812.10	1624.20	0.002	SHUT DOWN
22	728,043.30	17146.70	34293.40	0.034	SHUT DOWN
23	745,190.00	19303.70	38607.40	0.039	
24	764,493.70	15070.70	30141.40	0.030	
25	779,564.40	10170.50	20341.00	0.020	
26	789,734.90	18705.20	37410.40	0.037	
27	808,440.10	18755.60	37511.20	0.038	
28	827,195.70	18797.30	37594.60	0.038	
29	845,993.00	13234.40	26468.80	0.026	
30	859,227.40	16271.00	32542.00	0.033	
October 01	875,498.40				
			TOTAL	0.892	
			AVERAGE	0.030	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **990700**
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 08-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampli
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Nova Sample Number: 16493
Client ID: **990908WA09R**
Collection: 9/8/99 Time: 14:20
Sample Description:

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd/rf	9/14/99	991976	
Barium - ICAP	0.006	mg/l	J RJ	0.002	0.006	200.7	dmd/rf	9/10/99	991943	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	9/10/99	991948	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	9/10/99	991943	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	9/10/99	991943	
Iron - ICAP	0.25	mg/l	RJ	0.078	0.25	200.7	dmd/rf	9/10/99	991943	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd/rf	9/10/99	991944	
Manganese - ICAP	0.004	mg/l	J RJ	0.004	0.01	200.7	dmd/rf	9/10/99	991943	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	9/10/99	991945	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	9/10/99	991943	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	9/13/99	991971	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	9/10/99	991943	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd/rf	9/13/99	991967	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	9/10/99	991943	
COD. Total	<7.3	mg/l		7.3	23	410.4-CT	80535	9/17/99	992029	
Nitrate + Nitrite Nitrogen	0.35	mg/l		0.04	0.13	353.3	srh	9/9/99	991929	
Nitrogen, Ammonia	0.38	mg/l		0.1	0.32	350.1	80535	9/16/99	992031	
Phosphorus, Total	<0.10	mg/l		0.1	0.32	365.2	80535	9/17/99	992033	
Solids, Total Suspended	<0.5	mg/l		0.5	1.6	SM 2540D	rf	9/13/99	991972	

Nova Sample Number: 16494
Client ID: **990908WA01P**
Collection: 9/8/99 Time: 14:05
Sample Description:

Arsenic - Furnace AA	10	ug/l	J RJ	9.9	31	206.2	dmd/rf	9/14/99	991976	
Barium - ICAP	0.11	mg/l	RJ	0.002	0.006	200.7	dmd/rf	9/10/99	991943	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	9/10/99	991948	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	9/10/99	991943	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	9/10/99	991943	
Iron - ICAP	0.98	mg/l	RJ	0.078	0.25	200.7	dmd/rf	9/10/99	991943	
Lead - Furnace AA	12	ug/l	RJ	1.4	4.5	239.2	dmd/rf	9/10/99	991944	
Manganese - ICAP	0.19	mg/l	RJ	0.004	0.01	200.7	dmd/rf	9/10/99	991943	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	9/10/99	991945	
Nickel - ICAP	0.05	mg/l	RJ	0.01	0.03	200.7	dmd/rf	9/10/99	991943	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990700
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampli
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Selenium - Furnace AA	**<7.8**	**ug/l**	**RJ**	7.8	25	270.2	dmd/rf	9/13/99	*991971*	
Silver - ICAP	**<0.009**	**mg/l**	**RJ**	0.009	0.03	200.7	dmd/rf	9/10/99	*991943*	
Thallium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	279.2	dmd/rf	9/13/99	*991967*	
Zinc - ICAP	**<0.01**	**mg/l**	**RJ**	0.01	0.03	200.7	dmd/rf	9/10/99	*991943*	
Chromium, Hexavalent	**<0.0042**	**mg/l**	**HE**	0.004	0.01	SM 3500D	80535	9/10/99	*992028*	
COD. Total	**24**	**mg/l**		7.3	23	410.4-CT	80535	9/23/99	*992101*	
Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/21/99	*992086*	
Cyanide, Total	**0.01**	**mg/l**	***J***	0.006	0.02	335.2	srh	9/16/99	*992004*	
pH (water)	**6.9**	**s.u.**	**#**			150.1	sh	9/9/99	*991933*	
Solids, Total Suspended	**1**	**mg/l**	***J***	0.5	1.6	SM 2540D	rf	9/13/99	*991972*	

Nova Sample Number: 16495
Client ID: **990908WA05P**
Collection: 9/8/99 Time: 14:10
Sample Description:

Arsenic - Furnace AA	**<9.9**	**ug/l**	**RJ**	9.9	31	206.2	dmd/rf	9/14/99	*991976*	
Barium - ICAP	**0.02**	**mg/l**	**RJ**	0.002	0.006	200.7	dmd/rf	9/10/99	*991943*	
Cadmium - Furnace AA	**<0.7**	**ug/l**	**TTR**	0.7	2.2	213.2	dmd/rf	9/10/99	*991948*	
Chromium, Total - ICAP	**<0.012**	**mg/l**	**RJ**	0.012	0.04	200.7	dmd/rf	9/10/99	*991943*	
Copper- ICAP	**<0.01**	**mg/l**	**RJ**	0.01	0.03	200.7	dmd/rf	9/10/99	*991943*	
Iron - ICAP	**0.18**	**mg/l**	***J*** **RJ**	0.078	0.25	200.7	dmd/rf	9/10/99	*991943*	
Lead - Furnace AA	**<1.4**	**ug/l**	**RJ**	1.4	4.5	239.2	dmd/rf	9/10/99	*991944*	
Manganese - ICAP	**0.01**	**mg/l**	***J*** **RJ**	0.004	0.01	200.7	dmd/rf	9/10/99	*991943*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	dmd	9/10/99	*991945*	
Nickel - ICAP	**0.02**	**mg/l**	***J*** **RJ**	0.01	0.03	200.7	dmd/rf	9/10/99	*991943*	
Selenium - Furnace AA	**<7.8**	**ug/l**	**RJ**	7.8	25	270.2	dmd/rf	9/13/99	*991971*	
Silver - ICAP	**<0.009**	**mg/l**	**RJ**	0.009	0.03	200.7	dmd/rf	9/10/99	*991943*	
Thallium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	279.2	dmd/rf	9/13/99	*991967*	
Zinc - ICAP	**0.02**	**mg/l**	***J*** **RJ**	0.01	0.03	200.7	dmd/rf	9/10/99	*991943*	
pH (water)	**7.5**	**s.u.**	**#**			150.1	sh	9/9/99	*991933*	

Nova Sample Number: 16496
Client ID: **990908WA02P**
Collection: 9/8/99 Time: 14:25
Sample Description:

Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/21/99	*992086*
Cyanide, Total	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/16/99	*992004*
pH (water)	**9.9**	**s.u.**	**#**			150.1	sh	9/9/99	*991933*

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER	**990700**
DATE REPORTED:	29-Sep-99
DATE RECEIVED:	09-Sep-99
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	Quarterly Sampli
PROJECT NAME:	OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 16497										
Client ID: **990908WA03P**							Collection: 9/8/99		Time: 14:26	
							Sample Description:			
pH (water)	**11**	**s.u.**	#			150.1	sh	9/9/99	*991933*	
Nova Sample Number: 16499										
Client ID: **990908WA09P**							Collection: 9/8/99		Time: 14:18	
							Sample Description:			
Chromium, Hexavalent	**<0.0042**	**mg/l**	**HE**	0.004	0.01	SM 3500D	80535	9/10/99	*992028*	
Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/21/99	*992086*	
Cyanide, Total	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/16/99	*992004*	
pH (water)	**8.1**	**s.u.**	#			150.1	sh	9/9/99	*991933*	

Approved By: _____ **Date:** 9/29/99
James Chang, Ph.D. , Lab Director

HE *Holding time exceeded.*
RJ *Result expressed as Total.*
TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B "J" = Results between LOD and LOQ "#" = no LOD or LOQ required.
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3699

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990700
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 16494		QC Prep Batch Number: 991973					*Sample analyzed within 5 Day(s) from collection.*			
Client ID: 990908WA01P	Sample Description:						*Collection: 9/8/99 Time: 14:05*			
1,1,1,2-Tetrachloroethane	< 2	ug/l	2	6.4	ns	10		8260	cps	9/13/99
1,1,1-Trichloroethane	214	ug/l	2.3	7.3	40	10		8260	cps	9/13/99
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	0.02	10		8260	cps	9/13/99
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	0.5	10		8260	cps	9/13/99
1,1-Dichloroethane	29	ug/l	1.5	4.8	85	10		8260	cps	9/13/99
1,1-Dichloroethene	13	ug/l	3.6	11	0.7	10		8260	cps	9/13/99
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	ns	10		8260	cps	9/13/99
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7	ns	10		8260	cps	9/13/99
1,2,3-Trichloropropane	< 6	ug/l	6	19	ns	10		8260	cps	9/13/99
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	14	10		8260	cps	9/13/99
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	9/13/99
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	0.005	10		8260	cps	9/13/99
1,2-Dichlorobenzene	< 2	ug/l	2	6.4	60	10		8260	cps	9/13/99
1,2-Dichloroethane	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	9/13/99
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	0.5	10		8260	cps	9/13/99
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	cps	9/13/99
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6	125	10		8260	cps	9/13/99
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	ns	10		8260	cps	9/13/99
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	15	10		8260	cps	9/13/99
12Dibromo-3-chloropropan	< 5.9	ug/l	5.9	19	0.02	10		8260	cps	9/13/99
2,2-Dichloropropane	< 4	ug/l	4	13	ns	10		8260	cps	9/13/99
2-Butanone (MEK)	< 14	ug/l	14	44	90	10		8260	cps	9/13/99
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	9/13/99
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	ns	10		8260	cps	9/13/99
4-Chlorotoluene	< 2.5	ug/l	2.5	8	ns	10		8260	cps	9/13/99
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	50	10		8260	cps	9/13/99
Acetone	< 16	ug/l	16	49	200	10		8260	cps	9/13/99
Benzene	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	9/13/99
Bromobenzene	< 1.9	ug/l	1.9	6	ns	10		8260	cps	9/13/99
Bromochloromethane	< 3.4	ug/l	3.4	11	ns	10		8260	cps	9/13/99
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	0.06	10		8260	cps	9/13/99
Bromoform	< 4.7	ug/l	4.7	15	0.44	10		8260	cps	9/13/99
Bromomethane	< 2.1	ug/l	2.1	6.7	1	10		8260	cps	9/13/99
Carbon tetrachloride	< 2.2	ug/l	2.2	7	0.5	10		8260	cps	9/13/99
Chlorobenzene	< 2	ug/l	2	6.4	20	10		8260	cps	9/13/99
Chloroethane	< 12	ug/l	12	37	80	10		8260	cps	9/13/99
Chloroform	< 2.7	ug/l	2.7	8.6	0.6	10		8260	cps	9/13/99
Chloromethane	< 7.7	ug/l	7.7	24	0.3	10		8260	cps	9/13/99
cis-1,2-Dichloroethene	54	ug/l	2	6.4	7	10		8260	cps	9/13/99
cis-1,3-Dichloropropene	< 2.4	ug/l	2.4	7.6	0.02	10		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990700
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 2.1	ug/l	2.1	6.7	6	10		8260	cps	9/13/99
Dibromomethane	< 3.5	ug/l	3.5	11	ns	10		8260	cps	9/13/99
Dichlorodifluoromethane	< 3.6	ug/l	3.6	11	200	10		8260	cps	9/13/99
Ethylbenzene	< 1.6	ug/l	1.6	5.1	140	10		8260	cps	9/13/99
Hexachlorobutadiene	< 2.2	ug/l	2.2	7	ns	10		8260	cps	9/13/99
Isopropyl Ether	< 3.2	ug/l	3.2	10	ns	10		8260	cps	9/13/99
Isopropylbenzene	< 1.6	ug/l	1.6	5.1	ns	10		8260	cps	9/13/99
m&p-xylene	< 3.6	ug/l	3.6	11	124	10		8260	cps	9/13/99
Methyl-t-butyl ether	< 2.1	ug/l	2.1	6.7	12	10		8260	cps	9/13/99
Methylene chloride	< 7.6	ug/l	7.6	24	0.5	10		8260	cps	9/13/99
n-Butylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	cps	9/13/99
n-Propylbenzene	< 2.5	ug/l	2.5	8	ns	10		8260	cps	9/13/99
Naphthalene	< 4.6	ug/l	4.6	15	8	10		8260	cps	9/13/99
o-xylene	< 1.8	ug/l	1.8	5.7	124	10		8260	cps	9/13/99
p-Isopropyltoluene	< 1.8	ug/l	1.8	5.7	ns	10		8260	cps	9/13/99
sec-Butylbenzene	< 3	ug/l	3	9.5	ns	10		8260	cps	9/13/99
Styrene	< 2.1	ug/l	2.1	6.7	10	10		8260	cps	9/13/99
tert-Butylbenzene	< 2	ug/l	2	6.4	ns	10		8260	cps	9/13/99
Tetrachloroethene	8.3	ug/l	2.9	9.2	0.5	10	J	8260	cps	9/13/99
Toluene	< 3.3	ug/l	3.3	10	68.6	10		8260	cps	9/13/99
trans-1,2-Dichloroethene	20	ug/l	1.6	5.1	20	10		8260	cps	9/13/99
trans-1,3-Dichloropropene	< 2	ug/l	2	6.4	0.02	10		8260	cps	9/13/99
Trichloroethene	573	ug/l	1.6	5.1	0.5	10		8260	cps	9/13/99
Trichlorofluoromethane	< 3.4	ug/l	3.4	11	ns	10		8260	cps	9/13/99
Vinyl chloride	2.4	ug/l	2.1	6.7	0.02	10	J	8260	cps	9/13/99

Sample Number: 16495 QC Prep Batch Number: 991973 *Sample analyzed within 7 Day(s) from collection.*
Client ID: 990908WA05P Sample Description: *Collection: 9/8/99 Time: 14:10*

1,1,1,2-Tetrachloroethane	< 1	ug/l	1	3.2	ns	5		8260	cps	9/15/99
1,1,1-Trichloroethane	65	ug/l	1.2	3.7	40	5		8260	cps	9/15/99
1,1,2,2-Tetrachloroethane	< 1.5	ug/l	1.5	4.6	0.02	5		8260	cps	9/15/99
1,1,2-Trichloroethane	< 1.5	ug/l	1.5	4.6	0.5	5		8260	cps	9/15/99
1,1-Dichloroethane	14	ug/l	0.75	2.4	85	5		8260	cps	9/15/99
1,1-Dichloroethene	2.6	ug/l	1.8	5.7	0.7	5	J	8260	cps	9/15/99
1,1-Dichloropropene	< 2.5	ug/l	2.5	7.8	ns	5		8260	cps	9/15/99
1,2,3-Trichlorobenzene	< 1.1	ug/l	1.1	3.5	ns	5		8260	cps	9/15/99
1,2,3-Trichloropropane	< 3	ug/l	3	9.5	ns	5		8260	cps	9/15/99
1,2,4-Trichlorobenzene	< 0.8	ug/l	0.8	2.5	14	5		8260	cps	9/15/99
1,2,4-Trimethylbenzene	< 1.5	ug/l	1.5	4.6	ns	5		8260	cps	9/15/99
1,2-Dibromoethane	< 1.2	ug/l	1.2	3.8	0.005	5		8260	cps	9/15/99
1,2-Dichlorobenzene	< 1	ug/l	1	3.2	60	5		8260	cps	9/15/99
1,2-Dichloroethane	< 0.95	ug/l	0.95	3	0.5	5		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990700
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 1.2	ug/l	1.2	3.7	0.5	5		8260	cps	9/15/99
1,3,5-Trimethylbenzene	< 1.2	ug/l	1.2	3.7	ns	5		8260	cps	9/15/99
1,3-Dichlorobenzene	< 0.95	ug/l	0.95	3	125	5		8260	cps	9/15/99
1,3-Dichloropropane	< 1.1	ug/l	1.1	3.3	ns	5		8260	cps	9/15/99
1,4-Dichlorobenzene	< 0.75	ug/l	0.75	2.4	15	5		8260	cps	9/15/99
12Dibromo-3-chloropropan	< 3	ug/l	3	9.4	0.02	5		8260	cps	9/15/99
2,2-Dichloropropane	< 2	ug/l	2	6.4	ns	5		8260	cps	9/15/99
2-Butanone (MEK)	< 6.9	ug/l	6.9	22	90	5		8260	cps	9/15/99
2-Chloroethyl Vinyl Ether	< 1.5	ug/l	1.5	4.6	ns	5		8260	cps	9/15/99
2-Chlorotoluene	< 0.75	ug/l	0.75	2.4	ns	5		8260	cps	9/15/99
4-Chlorotoluene	< 1.3	ug/l	1.3	4	ns	5		8260	cps	9/15/99
4-Methyl-2-Pentanone	< 4.2	ug/l	4.2	13	50	5		8260	cps	9/15/99
Acetone	< 7.8	ug/l	7.8	25	200	5		8260	cps	9/15/99
Benzene	< 0.95	ug/l	0.95	3	0.5	5		8260	cps	9/15/99
Bromobenzene	< 0.95	ug/l	0.95	3	ns	5		8260	cps	9/15/99
Bromochloromethane	< 1.7	ug/l	1.7	5.4	ns	5		8260	cps	9/15/99
Bromodichloromethane	8.4	ug/l	1.3	4.1	0.06	5		8260	cps	9/15/99
Bromoform	< 2.4	ug/l	2.4	7.5	0.44	5		8260	cps	9/15/99
Bromomethane	< 1.1	ug/l	1.1	3.3	1	5		8260	cps	9/15/99
Carbon tetrachloride	< 1.1	ug/l	1.1	3.5	0.5	5		8260	cps	9/15/99
Chlorobenzene	1.5	ug/l	1	3.2	20	5	J	8260	cps	9/15/99
Chloroethane	< 5.8	ug/l	5.8	18	80	5		8260	cps	9/15/99
Chloroform	31	ug/l	1.4	4.3	0.6	5		8260	cps	9/15/99
Chloromethane	< 3.9	ug/l	3.9	12	0.3	5		8260	cps	9/15/99
cis-1,2-Dichloroethene	24	ug/l	1	3.2	7	5		8260	cps	9/15/99
cis-1,3-Dichloropropene	< 1.2	ug/l	1.2	3.8	0.02	5		8260	cps	9/15/99
Dibromochloromethane	3	ug/l	1.1	3.3	6	5	J	8260	cps	9/15/99
Dibromomethane	< 1.8	ug/l	1.8	5.6	ns	5		8260	cps	9/15/99
Dichlorodifluoromethane	< 1.8	ug/l	1.8	5.7	200	5		8260	cps	9/15/99
Ethylbenzene	< 0.8	ug/l	0.8	2.5	140	5		8260	cps	9/15/99
Hexachlorobutadiene	< 1.1	ug/l	1.1	3.5	ns	5		8260	cps	9/15/99
Isopropyl Ether	< 1.6	ug/l	1.6	5.1	ns	5		8260	cps	9/15/99
Isopropylbenzene	< 0.8	ug/l	0.8	2.5	ns	5		8260	cps	9/15/99
m&p-xylene	< 1.8	ug/l	1.8	5.7	124	5		8260	cps	9/15/99
Methyl-t-butyl ether	< 1.1	ug/l	1.1	3.3	12	5		8260	cps	9/15/99
Methylene chloride	< 3.8	ug/l	3.8	12	0.5	5		8260	cps	9/15/99
n-Butylbenzene	< 1.2	ug/l	1.2	3.7	ns	5		8260	cps	9/15/99
n-Propylbenzene	< 1.3	ug/l	1.3	4	ns	5		8260	cps	9/15/99
Naphthalene	< 2.3	ug/l	2.3	7.3	8	5		8260	cps	9/15/99
o-xylene	< 0.9	ug/l	0.9	2.9	124	5		8260	cps	9/15/99
p-Isopropyltoluene	< 0.9	ug/l	0.9	2.9	ns	5		8260	cps	9/15/99
sec-Butylbenzene	< 1.5	ug/l	1.5	4.8	ns	5		8260	cps	9/15/99
Styrene	< 1.1	ug/l	1.1	3.3	10	5		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990700
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 1	ug/l	1	3.2	ns	5		8260	cps	9/15/99
Tetrachloroethene	2.1	ug/l	1.5	4.6	0.5	5	J	8260	cps	9/15/99
Toluene	< 1.7	ug/l	1.7	5.2	68.6	5		8260	cps	9/15/99
trans-1,2-Dichloroethene	5.6	ug/l	0.8	2.5	20	5		8260	cps	9/15/99
trans-1,3-Dichloropropene	< 1	ug/l	1	3.2	0.02	5		8260	cps	9/15/99
Trichloroethene	203	ug/l	0.8	2.5	0.5	5		8260	cps	9/15/99
Trichlorofluoromethane	1.8	ug/l	1.7	5.4	ns	5	J	8260	cps	9/15/99
Vinyl chloride	1.1	ug/l	1.1	3.3	0.02	5		8260	cps	9/15/99

Sample Number: 16498 QC Prep Batch Number: 991955 *Sample analyzed within 2 Day(s) from collection.*
Client ID: 990908WA07P Sample Description: *Collection: 9/8/99 Time: 14:12*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/10/99
1,1,1-Trichloroethane	0.38	ug/l	0.23	0.73	40	1	J	8260	cps	9/10/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/10/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/10/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/10/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/10/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/10/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/10/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/10/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/10/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/10/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/10/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/10/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/10/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/10/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/10/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/10/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/10/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/10/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/10/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/10/99
2-Butanone (MEK)	151	ug/l	1.4	4.4	90	1		8260	cps	9/10/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/10/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/10/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/10/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/10/99
Acetone	21	ug/l	1.6	4.9	200	1		8260	cps	9/10/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/10/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/10/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/10/99
Bromodichloromethane	0.38	ug/l	0.26	0.83	0.06	1	J	8260	cps	9/10/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3699

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990700
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/10/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/10/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/10/99
Chlorobenzene	0.83	ug/l	0.2	0.64	20	1		8260	cps	9/10/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/10/99
Chloroform	0.87	ug/l	0.27	0.86	0.6	1		8260	cps	9/10/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/10/99
cis-1,2-Dichloroethene	0.38	ug/l	0.2	0.64	7	1	J	8260	cps	9/10/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/10/99
Dibromochloromethane	0.37	ug/l	0.21	0.67	6	1	J	8260	cps	9/10/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/10/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/10/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/10/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/10/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/10/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/10/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/10/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/10/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/10/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/10/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/10/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/10/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/10/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/10/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/10/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/10/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/10/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/10/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/10/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/10/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/10/99
Trichloroethene	1.7	ug/l	0.16	0.51	0.5	1		8260	cps	9/10/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/10/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/10/99

Sample Number: 16499 QC Prep Batch Number: 991955 *Sample analyzed within 2 Day(s) from collection.*
Client ID: 990908WA09P Sample Description: *Collection: 9/8/99 Time: 14:18*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/10/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/10/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/10/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/10/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/10/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53222
Phone: (414) 355-5800 Fax: (414) 355-3800

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990700
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/10/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/10/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/10/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/10/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/10/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/10/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/10/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/10/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/10/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/10/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/10/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/10/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/10/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/10/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/10/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/10/99
2-Butanone (MEK)	25	ug/l	1.4	4.4	90	1		8260	cps	9/10/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/10/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/10/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/10/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/10/99
Acetone	11	ug/l	1.6	4.9	200	1		8260	cps	9/10/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/10/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/10/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/10/99
Bromodichloromethane	0.41	ug/l	0.26	0.83	0.06	1	J	8260	cps	9/10/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/10/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/10/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/10/99
Chlorobenzene	0.7	ug/l	0.2	0.64	20	1		8260	cps	9/10/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/10/99
Chloroform	2.7	ug/l	0.27	0.86	0.6	1		8260	cps	9/10/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/10/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/10/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/10/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/10/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/10/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/10/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/10/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/10/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/10/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/10/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/10/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990700
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/10/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/10/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/10/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/10/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/10/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/10/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/10/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/10/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/10/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/10/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/10/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/10/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/10/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/10/99
Trichloroethene	0.39	ug/l	0.16	0.51	0.5	1	J	8260	cps	9/10/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/10/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/10/99

Sample Number: 16500 QC Prep Batch Number: 991955 *Sample analyzed within 2 Day(s) from collection.*
Client ID: Trip Blank Sample Description: *Collection: 9/8/99 Time:*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/10/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/10/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/10/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/10/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/10/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/10/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/10/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/10/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/10/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/10/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/10/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/10/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/10/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/10/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/10/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/10/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/10/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/10/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/10/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/10/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/10/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/10/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3890

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990700
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/10/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/10/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/10/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/10/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/10/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/10/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/10/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/10/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/10/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/10/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/10/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/10/99
Chlorobenzene	0.74	ug/l	0.2	0.64	20	1		8260	cps	9/10/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/10/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/10/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/10/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/10/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/10/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/10/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/10/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/10/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/10/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/10/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/10/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/10/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/10/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/10/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/10/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/10/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/10/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/10/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/10/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/10/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/10/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/10/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/10/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/10/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/10/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/10/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/10/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	9/10/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/10/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/10/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3699

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	990700
DATE REPORTED:	16-Sep-99
DATE RECEIVED:	09-Sep-99
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	Quarterly Sampling
PROJECT NAME:	OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal

Approved By: _____ **Date:** 9/20/99
James Chang, Ph.D. , Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"e" = Estimate value, over calibration range .*
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990706
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampli
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Nova Sample Number: 16512
Client ID: **990909WW-01**
Collection: 9/9/99 Time: 09:50
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<9.9	ug/l		RJ	9.9	31	206.2	dmd/rf	9/14/99	991976	
Barium - ICAP	0.39	mg/l		RJ	0.002	0.006	200.7	dmd/rf	9/14/99	991974	
Cadmium - Furnace AA	<0.7	ug/l		TTR	0.7	2.2	213.2	dmd/rf	9/10/99	991948	
Chromium, Total - ICAP	<0.012	mg/l		RJ	0.012	0.04	200.7	dmd/rf	9/14/99	991974	
Copper- ICAP	0.02	mg/l	J	RJ	0.01	0.03	200.7	dmd/rf	9/14/99	991974	
Iron - ICAP	4.5	mg/l		RJ	0.078	0.25	200.7	dmd/rf	9/14/99	991974	
Lead - Furnace AA	<1.4	ug/l		RJ	1.4	4.5	239.2	dmd/rf	9/10/99	991944	
Manganese - ICAP	0.08	mg/l		RJ	0.004	0.01	200.7	dmd/rf	9/14/99	991974	
Mercury CV	<0.0002	mg/l		RJ	0.0002	0.0006	245.1	dmd	9/16/99	991988	
Nickel - ICAP	<0.01	mg/l		RJ	0.01	0.03	200.7	dmd/rf	9/14/99	991974	
Selenium - Furnace AA	<7.8	ug/l		RJ	7.8	25	270.2	dmd/rf	9/13/99	991971	
Silver - ICAP	<0.009	mg/l		RJ	0.009	0.03	200.7	dmd/rf	9/14/99	991974	
Thallium - Furnace AA	<4.8	ug/l		RJ	4.8	15	279.2	dmd/rf	9/13/99	991967	
Zinc - ICAP	0.06	mg/l		RJ	0.01	0.03	200.7	dmd/rf	9/14/99	991974	
Chromium, Hexavalent	<0.042	mg/l			0.004	0.01	SM 3500D	12805	9/10/99	991986	
Cyanide, Amenable	<0.006	mg/l			0.006	0.02	335.2	srh	9/21/99	992086	
Cyanide, Total	<0.006	mg/l			0.006	0.02	335.2	srh	9/16/99	992008	
pH (water)	7.5	s.u.	#				150.1	ag	9/13/99	991970	

Nova Sample Number: 16513
Client ID: **990909EW-01**
Collection: 9/9/99 Time: 10:15
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<9.9	ug/l		RJ	9.9	31	206.2	dmd/rf	9/14/99	991976	
Barium - ICAP	0.08	mg/l		RJ	0.002	0.006	200.7	dmd/rf	9/14/99	991974	
Cadmium - Furnace AA	<0.7	ug/l		TTR	0.7	2.2	213.2	dmd/rf	9/10/99	991948	
Chromium, Total - ICAP	<0.012	mg/l		RJ	0.012	0.04	200.7	dmd/rf	9/14/99	991974	
Copper- ICAP	0.01	mg/l	J	RJ	0.01	0.03	200.7	dmd/rf	9/14/99	991974	
Iron - ICAP	0.63	mg/l		RJ	0.078	0.25	200.7	dmd/rf	9/14/99	991974	
Lead - Furnace AA	3.3	ug/l	J	RJ	1.4	4.5	239.2	dmd/rf	9/10/99	991944	
Manganese - ICAP	0.28	mg/l		RJ	0.004	0.01	200.7	dmd/rf	9/14/99	991974	
Mercury CV	<0.0002	mg/l		RJ	0.0002	0.0006	245.1	dmd	9/16/99	991988	
Nickel - ICAP	0.04	mg/l		RJ	0.01	0.03	200.7	dmd/rf	9/14/99	991974	
Selenium - Furnace AA	43	ug/l		RJ	7.8	25	270.2	dmd/rf	9/13/99	991971	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990706
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampli
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Silver - ICAP	**<0.009**	**mg/l**	**RJ**	0.009	0.03	200.7	dmd/rf	9/14/99	*991974*	
Thallium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	279.2	dmd/rf	9/13/99	*991967*	
Zinc - ICAP	**0.03**	**mg/l**	***J*** **RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Chromium, Hexavalent	**<0.042**	**mg/l**		0.004	0.01	SM 3500D	12805	9/10/99	*991986*	
Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/21/99	*992086*	
Cyanide, Total	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/16/99	*992008*	
pH (water)	**7.3**	**s.u.**	**#**			150.1	ag	9/13/99	*991970*	

Nova Sample Number: 16514
Client ID: **990909EW-02**
Collection: 9/9/99 Time: 10:35
Sample Description:

Arsenic - Furnace AA	**<9.9**	**ug/l**	**RJ**	9.9	31	206.2	dmd/rf	9/14/99	*991976*	
Barium - ICAP	**0.08**	**mg/l**	**RJ**	0.002	0.006	200.7	dmd/rf	9/14/99	*991974*	
Cadmium - Furnace AA	**<0.7**	**ug/l**	**TTR**	0.7	2.2	213.2	dmd/rf	9/10/99	*991948*	
Chromium, Total - ICAP	**<0.012**	**mg/l**	**RJ**	0.012	0.04	200.7	dmd/rf	9/14/99	*991974*	
Copper- ICAP	**0.02**	**mg/l**	***J*** **RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Iron - ICAP	**1.1**	**mg/l**	**RJ**	0.078	0.25	200.7	dmd/rf	9/14/99	*991974*	
Lead - Furnace AA	**9.3**	**ug/l**	**RJ**	1.4	4.5	239.2	dmd/rf	9/10/99	*991944*	
Manganese - ICAP	**0.11**	**mg/l**	**RJ**	0.004	0.01	200.7	dmd/rf	9/14/99	*991974*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	dmd	9/16/99	*991988*	
Nickel - ICAP	**15**	**ug/l**	***J*** **RJ**	10	32	200.7	dmd/rf	9/14/99	*991974*	
Selenium - Furnace AA	**49**	**ug/l**	**RJ**	7.8	25	270.2	dmd/rf	9/13/99	*991971*	
Silver - ICAP	**<0.009**	**mg/l**	**RJ**	0.009	0.03	200.7	dmd/rf	9/14/99	*991974*	
Thallium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	279.2	dmd/rf	9/13/99	*991967*	
Zinc - ICAP	**0.05**	**mg/l**	**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Chromium, Hexavalent	**<0.042**	**mg/l**		0.004	0.01	SM 3500D	12805	9/10/99	*991986*	
Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/21/99	*992086*	
Cyanide, Total	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/16/99	*992008*	
pH (water)	**7.3**	**s.u.**	**#**			150.1	ag	9/13/99	*991970*	

Nova Sample Number: 16515
Client ID: **990909EW-03**
Collection: 9/9/99 Time: 10:55
Sample Description:

Arsenic - Furnace AA	**<9.9**	**ug/l**	**RJ**	9.9	31	206.2	dmd/rf	9/14/99	*991976*	
Barium - ICAP	**0.14**	**mg/l**	**RJ**	0.002	0.006	200.7	dmd/rf	9/14/99	*991974*	
Cadmium - Furnace AA	**<0.7**	**ug/l**	**TTR**	0.7	2.2	213.2	dmd/rf	9/10/99	*991948*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990706
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampli
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Chromium, Total - ICAP	**<0.012**	**mg/l**		**RJ**	0.012	0.04	200.7	dmd/rf	9/14/99	*991974*	
Copper- ICAP	**<0.01**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Iron - ICAP	**2**	**mg/l**		**RJ**	0.078	0.25	200.7	dmd/rf	9/14/99	*991974*	
Lead - Furnace AA	**7.1**	**ug/l**		**RJ**	1.4	4.5	239.2	dmd/rf	9/10/99	*991944*	
Manganese - ICAP	**0.08**	**mg/l**		**RJ**	0.004	0.01	200.7	dmd/rf	9/14/99	*991974*	
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	dmd	9/16/99	*991988*	
Nickel - ICAP	**<0.01**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Selenium - Furnace AA	**29**	**ug/l**		**RJ**	7.8	25	270.2	dmd/rf	9/13/99	*991971*	
Silver - ICAP	**<0.009**	**mg/l**		**RJ**	0.009	0.03	200.7	dmd/rf	9/14/99	*991974*	
Thallium - Furnace AA	**<4.8**	**ug/l**		**RJ**	4.8	15	279.2	dmd/rf	9/13/99	*991967*	
Zinc - ICAP	**0.05**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Chromium, Hexavalent	**<0.042**	**mg/l**			0.004	0.01	SM 3500D	12805	9/10/99	*991986*	
Cyanide, Amenable	**<0.006**	**mg/l**			0.006	0.02	335.2	srh	9/21/99	*992086*	
Cyanide, Total	**<0.006**	**mg/l**			0.006	0.02	335.2	srh	9/16/99	*992008*	
pH (water)	**7.2**	**s.u.**	#				150.1	ag	9/13/99	*991970*	

Nova Sample Number: 16516
Client ID: **990909EW-04**

Collection: 9/9/99 Time: 11:15
Sample Description:

Arsenic - Furnace AA	**<9.9**	**ug/l**		**RJ**	9.9	31	206.2	dmd/rf	9/14/99	*991976*	
Barium - ICAP	**0.14**	**mg/l**		**RJ**	0.002	0.006	200.7	dmd/rf	9/14/99	*991974*	
Cadmium - Furnace AA	**<0.7**	**ug/l**		**TTR**	0.7	2.2	213.2	dmd/rf	9/10/99	*991948*	
Chromium, Total - ICAP	**<0.012**	**mg/l**		**RJ**	0.012	0.04	200.7	dmd/rf	9/14/99	*991974*	
Copper- ICAP	**<0.01**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Iron - ICAP	**0.44**	**mg/l**		**RJ**	0.078	0.25	200.7	dmd/rf	9/14/99	*991974*	
Lead - Furnace AA	**1.5**	**ug/l**	*J*	**RJ**	1.4	4.5	239.2	dmd/rf	9/10/99	*991944*	
Manganese - ICAP	**0.35**	**mg/l**		**RJ**	0.004	0.01	200.7	dmd/rf	9/14/99	*991974*	
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	dmd	9/16/99	*991988*	
Nickel - ICAP	**0.12**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Selenium - Furnace AA	**17**	**ug/l**	*J*	**RJ**	7.8	25	270.2	dmd/rf	9/13/99	*991971*	
Silver - ICAP	**<0.009**	**mg/l**		**RJ**	0.009	0.03	200.7	dmd/rf	9/14/99	*991974*	
Thallium - Furnace AA	**<4.8**	**ug/l**		**RJ**	4.8	15	279.2	dmd/rf	9/13/99	*991967*	
Zinc - ICAP	**0.02**	**mg/l**	*J*	**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*	
Chromium, Hexavalent	**<0.042**	**mg/l**			0.004	0.01	SM 3500D	12805	9/10/99	*991986*	
Cyanide, Amenable	**<0.006**	**mg/l**			0.006	0.02	335.2	srh	9/21/99	*992086*	
Cyanide, Total	**0.009**	**mg/l**	*J*		0.006	0.02	335.2	srh	9/16/99	*992008*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990706
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampli
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
pH (water)	**7.1**	**s.u.**	#			150.1	ag	9/13/99	*991970*	

Nova Sample Number: 16517
Client ID: **990909EW-05**
Collection: 9/9/99 Time: 11:35
Sample Description:

Arsenic - Furnace AA	**<9.9**	**ug/l**		**RJ**	9.9	31	206.2	dmd/rf	9/14/99	*991976*
Barium - ICAP	**0.1**	**mg/l**		**RJ**	0.002	0.006	200.7	dmd/rf	9/14/99	*991974*
Cadmium - Furnace AA	**<0.7**	**ug/l**		**TTR**	0.7	2.2	213.2	dmd/rf	9/10/99	*991948*
Chromium, Total - ICAP	**<0.009**	**mg/l**		**RJ**	0.012	0.04	200.7	dmd/rf	9/14/99	*991974*
Copper- ICAP	**0.01**	**mg/l**	*J*	**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*
Iron - ICAP	**2**	**mg/l**		**RJ**	0.078	0.25	200.7	dmd/rf	9/14/99	*991974*
Lead - Furnace AA	**4.7**	**ug/l**		**RJ**	1.4	4.5	239.2	dmd/rf	9/17/99	*992030*
Manganese - ICAP	**0.08**	**mg/l**		**RJ**	0.004	0.01	200.7	dmd/rf	9/14/99	*991974*
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	dmd	9/16/99	*991988*
Nickel - ICAP	**<0.01**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*
Selenium - Furnace AA	**33**	**ug/l**		**RJ**	7.8	25	270.2	dmd/rf	9/13/99	*991971*
Silver - ICAP	**<0.009**	**mg/l**		**RJ**	0.009	0.03	200.7	dmd/rf	9/14/99	*991974*
Thallium - Furnace AA	**<4.8**	**ug/l**		**RJ**	4.8	15	279.2	dmd/rf	9/13/99	*991967*
Zinc - ICAP	**0.04**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/14/99	*991974*
Chromium, Hexavalent	**<0.042**	**mg/l**			0.004	0.01	SM 3500D	12805	9/10/99	*991986*
Cyanide, Amenable	**<0.006**	**mg/l**			0.006	0.02	335.2	srh	9/21/99	*992086*
Cyanide, Total	**0.02**	**mg/l**			0.006	0.02	335.2	srh	9/16/99	*992008*
pH (water)	**7.3**	**s.u.**	#				150.1	ag	9/13/99	*991970*

Approved By: _____ **Date:** 9/29/99
James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*
TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B "J" = Results between LOD and LOQ "#" = no LOD or LOQ required.
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 16512		QC Prep Batch Number: 991973					*Sample analyzed within 4 Day(s) from collection.*			
Client ID: 990909WW-01	Sample Description:						*Collection: 9/9/99*	*Time: 09:50*		
1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/13/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/13/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/13/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/13/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/13/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/13/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/13/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/13/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/13/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/13/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/13/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/13/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/13/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/13/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/13/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/13/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/13/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/13/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/13/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/13/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/13/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/13/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/13/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/13/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/13/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/13/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/13/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/13/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/13/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/13/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/13/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/13/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/13/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/13/99
Chlorobenzene	0.52	ug/l	0.2	0.64	20	1	J	8260	cps	9/13/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/13/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/13/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/13/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/13/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/13/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/13/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/13/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/13/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/13/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/13/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/13/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/13/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/13/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/13/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/13/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/13/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/13/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/13/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/13/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/13/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/13/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/13/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/13/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/13/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/13/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/13/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	9/13/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/13/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/13/99

Sample Number: 16513 QC Prep Batch Number: 991973 *Sample analyzed within 4 Day(s) from collection.*
Client ID: 990909EW-01 Sample Description: *Collection: 9/9/99 Time: 10:15*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/13/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/13/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/13/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/13/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/13/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/13/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/13/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/13/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/13/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/13/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/13/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/13/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/13/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/13/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/13/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/13/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/13/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/13/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/13/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/13/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/13/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/13/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/13/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/13/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/13/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/13/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/13/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/13/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/13/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/13/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/13/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/13/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/13/99
Chlorobenzene	0.56	ug/l	0.2	0.64	20	1	J	8260	cps	9/13/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/13/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/13/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/13/99
cis-1,2-Dichloroethene	0.89	ug/l	0.2	0.64	7	1		8260	cps	9/13/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/13/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/13/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/13/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/13/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/13/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/13/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/13/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/13/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/13/99
Methyl-t-butyl ether	0.4	ug/l	0.21	0.67	12	1	J	8260	cps	9/13/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/13/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/13/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/13/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/13/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/13/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/13/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/13/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/13/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/13/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/13/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/13/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/13/99
Trichloroethene	7.9	ug/l	0.16	0.51	0.5	1		8260	cps	9/13/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/13/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/13/99

Sample Number: 16514 QC Prep Batch Number: 991973 *Sample analyzed within 4 Day(s) from collection.*
Client ID: 990909EW-02 Sample Description: *Collection: 9/9/99 Time: 10:35*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/13/99
1,1,1-Trichloroethane	0.74	ug/l	0.23	0.73	40	1		8260	cps	9/13/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/13/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/13/99
1,1-Dichloroethane	4	ug/l	0.15	0.48	85	1		8260	cps	9/13/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/13/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/13/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/13/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/13/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/13/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/13/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/13/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/13/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/13/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/13/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/13/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/13/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/13/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/13/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/13/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/13/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/13/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/13/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/13/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/13/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/13/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/13/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/13/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/13/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/13/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5888 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/13/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/13/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/13/99
Chlorobenzene	0.7	ug/l	0.2	0.64	20	1		8260	cps	9/13/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/13/99
Chloroform	0.62	ug/l	0.27	0.86	0.6	1	J	8260	cps	9/13/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/13/99
cis-1,2-Dichloroethene	19	ug/l	0.2	0.64	7	1		8260	cps	9/13/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/13/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/13/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/13/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/13/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/13/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/13/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/13/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/13/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/13/99
Methyl-t-butyl ether	0.44	ug/l	0.21	0.67	12	1	J	8260	cps	9/13/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/13/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/13/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/13/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/13/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/13/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/13/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/13/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/13/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/13/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/13/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/13/99
trans-1,2-Dichloroethene	7.6	ug/l	0.16	0.51	20	1		8260	cps	9/13/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/13/99
Trichloroethene	27	ug/l	0.16	0.51	0.5	1		8260	cps	9/13/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/13/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/13/99

Sample Number: 16515 QC Prep Batch Number: 991973 *Sample analyzed within 4 Day(s) from collection.*
Client ID: 990909EW-03 Sample Description: *Collection: 9/9/99 Time: 10:55*

1,1,1,2-Tetrachloroethane	< 0.4	ug/l	0.4	1.3	ns	2		8260	cps	9/13/99
1,1,1-Trichloroethane	10	ug/l	0.46	1.5	40	2		8260	cps	9/13/99
1,1,2,2-Tetrachloroethane	< 0.58	ug/l	0.58	1.8	0.02	2		8260	cps	9/13/99
1,1,2-Trichloroethane	< 0.58	ug/l	0.58	1.8	0.5	2		8260	cps	9/13/99
1,1-Dichloroethane	21	ug/l	0.3	0.95	85	2		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	5	ug/l	0.72	2.3	0.7	2		8260	cps	9/13/99
1,1-Dichloropropene	< 0.98	ug/l	0.98	3.1	ns	2		8260	cps	9/13/99
1,2,3-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	ns	2		8260	cps	9/13/99
1,2,3-Trichloropropane	< 1.2	ug/l	1.2	3.8	ns	2		8260	cps	9/13/99
1,2,4-Trichlorobenzene	< 0.32	ug/l	0.32	1	14	2		8260	cps	9/13/99
1,2,4-Trimethylbenzene	< 0.58	ug/l	0.58	1.8	ns	2		8260	cps	9/13/99
1,2-Dibromoethane	< 0.48	ug/l	0.48	1.5	0.005	2		8260	cps	9/13/99
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.3	60	2		8260	cps	9/13/99
1,2-Dichloroethane	< 0.38	ug/l	0.38	1.2	0.5	2		8260	cps	9/13/99
1,2-Dichloropropane	< 0.46	ug/l	0.46	1.5	0.5	2		8260	cps	9/13/99
1,3,5-Trimethylbenzene	< 0.46	ug/l	0.46	1.5	ns	2		8260	cps	9/13/99
1,3-Dichlorobenzene	< 0.38	ug/l	0.38	1.2	125	2		8260	cps	9/13/99
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	ns	2		8260	cps	9/13/99
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.95	15	2		8260	cps	9/13/99
12Dibromo-3-chloropropan	< 1.2	ug/l	1.2	3.8	0.02	2		8260	cps	9/13/99
2,2-Dichloropropane	< 0.8	ug/l	0.8	2.5	ns	2		8260	cps	9/13/99
2-Butanone (MEK)	< 2.8	ug/l	2.8	8.8	90	2		8260	cps	9/13/99
2-Chloroethyl Vinyl Ether	< 0.58	ug/l	0.58	1.8	ns	2		8260	cps	9/13/99
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	2		8260	cps	9/13/99
4-Chlorotoluene	< 0.5	ug/l	0.5	1.6	ns	2		8260	cps	9/13/99
4-Methyl-2-Pentanone	< 1.7	ug/l	1.7	5.3	50	2		8260	cps	9/13/99
Acetone	< 3.1	ug/l	3.1	9.9	200	2		8260	cps	9/13/99
Benzene	< 0.38	ug/l	0.38	1.2	0.5	2		8260	cps	9/13/99
Bromobenzene	< 0.38	ug/l	0.38	1.2	ns	2		8260	cps	9/13/99
Bromochloromethane	< 0.68	ug/l	0.68	2.2	ns	2		8260	cps	9/13/99
Bromodichloromethane	< 0.52	ug/l	0.52	1.7	0.06	2		8260	cps	9/13/99
Bromoform	< 0.94	ug/l	0.94	3	0.44	2		8260	cps	9/13/99
Bromomethane	< 0.42	ug/l	0.42	1.3	1	2		8260	cps	9/13/99
Carbon tetrachloride	< 0.44	ug/l	0.44	1.4	0.5	2		8260	cps	9/13/99
Chlorobenzene	0.52	ug/l	0.4	1.3	20	2	J	8260	cps	9/13/99
Chloroethane	< 2.3	ug/l	2.3	7.4	80	2		8260	cps	9/13/99
Chloroform	< 0.54	ug/l	0.54	1.7	0.6	2		8260	cps	9/13/99
Chloromethane	< 1.5	ug/l	1.5	4.9	0.3	2		8260	cps	9/13/99
cis-1,2-Dichloroethene	38	ug/l	0.4	1.3	7	2		8260	cps	9/13/99
cis-1,3-Dichloropropene	< 0.48	ug/l	0.48	1.5	0.02	2		8260	cps	9/13/99
Dibromochloromethane	< 0.42	ug/l	0.42	1.3	6	2		8260	cps	9/13/99
Dibromomethane	< 0.7	ug/l	0.7	2.2	ns	2		8260	cps	9/13/99
Dichlorodifluoromethane	< 0.72	ug/l	0.72	2.3	200	2		8260	cps	9/13/99
Ethylbenzene	< 0.32	ug/l	0.32	1	140	2		8260	cps	9/13/99
Hexachlorobutadiene	< 0.44	ug/l	0.44	1.4	ns	2		8260	cps	9/13/99
Isopropyl Ether	< 0.64	ug/l	0.64	2	ns	2		8260	cps	9/13/99
Isopropylbenzene	< 0.32	ug/l	0.32	1	ns	2		8260	cps	9/13/99
m&p-xylene	< 0.72	ug/l	0.72	2.3	124	2		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.42	ug/l	0.42	1.3	12	2		8260	cps	9/13/99
Methylene chloride	< 1.5	ug/l	1.5	4.8	0.5	2		8260	cps	9/13/99
n-Butylbenzene	< 0.46	ug/l	0.46	1.5	ns	2		8260	cps	9/13/99
n-Propylbenzene	< 0.5	ug/l	0.5	1.6	ns	2		8260	cps	9/13/99
Naphthalene	< 0.92	ug/l	0.92	2.9	8	2		8260	cps	9/13/99
o-xylene	< 0.36	ug/l	0.36	1.1	124	2		8260	cps	9/13/99
p-Isopropyltoluene	< 0.36	ug/l	0.36	1.1	ns	2		8260	cps	9/13/99
sec-Butylbenzene	< 0.6	ug/l	0.6	1.9	ns	2		8260	cps	9/13/99
Styrene	< 0.42	ug/l	0.42	1.3	10	2		8260	cps	9/13/99
tert-Butylbenzene	< 0.4	ug/l	0.4	1.3	ns	2		8260	cps	9/13/99
Tetrachloroethene	< 0.58	ug/l	0.58	1.8	0.5	2		8260	cps	9/13/99
Toluene	< 0.66	ug/l	0.66	2.1	68.6	2		8260	cps	9/13/99
trans-1,2-Dichloroethene	2.6	ug/l	0.32	1	20	2		8260	cps	9/13/99
trans-1,3-Dichloropropene	< 0.4	ug/l	0.4	1.3	0.02	2		8260	cps	9/13/99
Trichloroethene	181	ug/l	0.32	1	0.5	2		8260	cps	9/13/99
Trichlorofluoromethane	< 0.68	ug/l	0.68	2.2	ns	2		8260	cps	9/13/99
Vinyl chloride	0.7	ug/l	0.42	1.3	0.02	2	J	8260	cps	9/13/99

Sample Number: 16516 QC Prep Batch Number: 991973 *Sample analyzed within 4 Day(s) from collection.*
Client ID: 990909EW-04 Sample Description: *Collection: 9/9/99 Time: 11:15*

1,1,1,2-Tetrachloroethane	< 4	ug/l	4	13	ns	20		8260	cps	9/13/99
1,1,1-Trichloroethane	766	ug/l	4.6	15	40	20		8260	cps	9/13/99
1,1,2,2-Tetrachloroethane	< 5.8	ug/l	5.8	18	0.02	20		8260	cps	9/13/99
1,1,2-Trichloroethane	< 5.8	ug/l	5.8	18	0.5	20		8260	cps	9/13/99
1,1-Dichloroethane	29	ug/l	3	9.5	85	20		8260	cps	9/13/99
1,1-Dichloroethene	39	ug/l	7.2	23	0.7	20		8260	cps	9/13/99
1,1-Dichloropropene	< 9.8	ug/l	9.8	31	ns	20		8260	cps	9/13/99
1,2,3-Trichlorobenzene	< 4.4	ug/l	4.4	14	ns	20		8260	cps	9/13/99
1,2,3-Trichloropropane	< 12	ug/l	12	38	ns	20		8260	cps	9/13/99
1,2,4-Trichlorobenzene	< 3.2	ug/l	3.2	10	14	20		8260	cps	9/13/99
1,2,4-Trimethylbenzene	< 5.8	ug/l	5.8	18	ns	20		8260	cps	9/13/99
1,2-Dibromoethane	< 4.8	ug/l	4.8	15	0.005	20		8260	cps	9/13/99
1,2-Dichlorobenzene	< 4	ug/l	4	13	60	20		8260	cps	9/13/99
1,2-Dichloroethane	< 3.8	ug/l	3.8	12	0.5	20		8260	cps	9/13/99
1,2-Dichloropropane	< 4.6	ug/l	4.6	15	0.5	20		8260	cps	9/13/99
1,3,5-Trimethylbenzene	< 4.6	ug/l	4.6	15	ns	20		8260	cps	9/13/99
1,3-Dichlorobenzene	< 3.8	ug/l	3.8	12	125	20		8260	cps	9/13/99
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	ns	20		8260	cps	9/13/99
1,4-Dichlorobenzene	< 3	ug/l	3	9.5	15	20		8260	cps	9/13/99
12Dibromo-3-chloropropan	< 12	ug/l	12	38	0.02	20		8260	cps	9/13/99
2,2-Dichloropropane	< 8	ug/l	8	25	ns	20		8260	cps	9/13/99
2-Butanone (MEK)	< 28	ug/l	28	88	90	20		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3699

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
2-Chloroethyl Vinyl Ether	< 5.8	ug/l	5.8	18	ns	20		8260	cps	9/13/99
2-Chlorotoluene	< 3	ug/l	3	9.5	ns	20		8260	cps	9/13/99
4-Chlorotoluene	< 5	ug/l	5	16	ns	20		8260	cps	9/13/99
4-Methyl-2-Pentanone	< 17	ug/l	17	53	50	20		8260	cps	9/13/99
Acetone	< 31	ug/l	31	99	200	20		8260	cps	9/13/99
Benzene	< 3.8	ug/l	3.8	12	0.5	20		8260	cps	9/13/99
Bromobenzene	< 3.8	ug/l	3.8	12	ns	20		8260	cps	9/13/99
Bromochloromethane	< 6.8	ug/l	6.8	22	ns	20		8260	cps	9/13/99
Bromodichloromethane	< 5.2	ug/l	5.2	17	0.06	20		8260	cps	9/13/99
Bromoform	< 9.4	ug/l	9.4	30	0.44	20		8260	cps	9/13/99
Bromomethane	< 4.2	ug/l	4.2	13	1	20		8260	cps	9/13/99
Carbon tetrachloride	< 4.4	ug/l	4.4	14	0.5	20		8260	cps	9/13/99
Chlorobenzene	< 4	ug/l	4	13	20	20		8260	cps	9/13/99
Chloroethane	< 23	ug/l	23	74	80	20		8260	cps	9/13/99
Chloroform	< 5.4	ug/l	5.4	17	0.6	20		8260	cps	9/13/99
Chloromethane	< 15	ug/l	15	49	0.3	20		8260	cps	9/13/99
cis-1,2-Dichloroethene	114	ug/l	4	13	7	20		8260	cps	9/13/99
cis-1,3-Dichloropropene	< 4.8	ug/l	4.8	15	0.02	20		8260	cps	9/13/99
Dibromochloromethane	< 4.2	ug/l	4.2	13	6	20		8260	cps	9/13/99
Dibromomethane	< 7	ug/l	7	22	ns	20		8260	cps	9/13/99
Dichlorodifluoromethane	< 7.2	ug/l	7.2	23	200	20		8260	cps	9/13/99
Ethylbenzene	< 3.2	ug/l	3.2	10	140	20		8260	cps	9/13/99
Hexachlorobutadiene	< 4.4	ug/l	4.4	14	ns	20		8260	cps	9/13/99
Isopropyl Ether	< 6.4	ug/l	6.4	20	ns	20		8260	cps	9/13/99
Isopropylbenzene	< 3.2	ug/l	3.2	10	ns	20		8260	cps	9/13/99
m&p-xylene	< 7.2	ug/l	7.2	23	124	20		8260	cps	9/13/99
Methyl-t-butyl ether	< 4.2	ug/l	4.2	13	12	20		8260	cps	9/13/99
Methylene chloride	< 15	ug/l	15	48	0.5	20		8260	cps	9/13/99
n-Butylbenzene	< 4.6	ug/l	4.6	15	ns	20		8260	cps	9/13/99
n-Propylbenzene	< 5	ug/l	5	16	ns	20		8260	cps	9/13/99
Naphthalene	< 9.2	ug/l	9.2	29	8	20		8260	cps	9/13/99
o-xylene	< 3.6	ug/l	3.6	11	124	20		8260	cps	9/13/99
p-Isopropyltoluene	< 3.6	ug/l	3.6	11	ns	20		8260	cps	9/13/99
sec-Butylbenzene	< 6	ug/l	6	19	ns	20		8260	cps	9/13/99
Styrene	< 4.2	ug/l	4.2	13	10	20		8260	cps	9/13/99
tert-Butylbenzene	< 4	ug/l	4	13	ns	20		8260	cps	9/13/99
Tetrachloroethene	41	ug/l	5.8	18	0.5	20		8260	cps	9/13/99
Toluene	< 6.6	ug/l	6.6	21	68.6	20		8260	cps	9/13/99
trans-1,2-Dichloroethene	79	ug/l	3.2	10	20	20		8260	cps	9/13/99
trans-1,3-Dichloropropene	< 4	ug/l	4	13	0.02	20		8260	cps	9/13/99
Trichloroethene	1600	ug/l	3.2	10	0.5	20		8260	cps	9/13/99
Trichlorofluoromethane	7.6	ug/l	6.8	22	ns	20	J	8260	cps	9/13/99
Vinyl chloride	8.6	ug/l	4.2	13	0.02	20	J	8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5888 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 16517		QC Prep Batch Number: 991973					*Sample analyzed within 4 Day(s) from collection.*			
Client ID: 990909EW-05	Sample Description:						*Collection: 9/9/99*	*Time: 11:35*		
1,1,1,2-Tetrachloroethane	< 4	ug/l	4	13	ns	20		8260	cps	9/13/99
1,1,1-Trichloroethane	332	ug/l	4.6	15	40	20		8260	cps	9/13/99
1,1,2,2-Tetrachloroethane	< 5.8	ug/l	5.8	18	0.02	20		8260	cps	9/13/99
1,1,2-Trichloroethane	< 5.8	ug/l	5.8	18	0.5	20		8260	cps	9/13/99
1,1-Dichloroethane	95	ug/l	3	9.5	85	20		8260	cps	9/13/99
1,1-Dichloroethene	18	ug/l	7.2	23	0.7	20	J	8260	cps	9/13/99
1,1-Dichloropropene	< 9.8	ug/l	9.8	31	ns	20		8260	cps	9/13/99
1,2,3-Trichlorobenzene	< 4.4	ug/l	4.4	14	ns	20		8260	cps	9/13/99
1,2,3-Trichloropropane	< 12	ug/l	12	38	ns	20		8260	cps	9/13/99
1,2,4-Trichlorobenzene	< 3.2	ug/l	3.2	10	14	20		8260	cps	9/13/99
1,2,4-Trimethylbenzene	< 5.8	ug/l	5.8	18	ns	20		8260	cps	9/13/99
1,2-Dibromoethane	< 4.8	ug/l	4.8	15	0.005	20		8260	cps	9/13/99
1,2-Dichlorobenzene	4.8	ug/l	4	13	60	20	J	8260	cps	9/13/99
1,2-Dichloroethane	6.2	ug/l	3.8	12	0.5	20	J	8260	cps	9/13/99
1,2-Dichloropropane	5.6	ug/l	4.6	15	0.5	20	J	8260	cps	9/13/99
1,3,5-Trimethylbenzene	< 4.6	ug/l	4.6	15	ns	20		8260	cps	9/13/99
1,3-Dichlorobenzene	< 3.8	ug/l	3.8	12	125	20		8260	cps	9/13/99
1,3-Dichloropropane	5	ug/l	4.2	13	ns	20	J	8260	cps	9/13/99
1,4-Dichlorobenzene	< 3	ug/l	3	9.5	15	20		8260	cps	9/13/99
12Dibromo-3-chloropropan	< 12	ug/l	12	38	0.02	20		8260	cps	9/13/99
2,2-Dichloropropane	< 8	ug/l	8	25	ns	20		8260	cps	9/13/99
2-Butanone (MEK)	< 28	ug/l	28	88	90	20		8260	cps	9/13/99
2-Chloroethyl Vinyl Ether	< 5.8	ug/l	5.8	18	ns	20		8260	cps	9/13/99
2-Chlorotoluene	< 3	ug/l	3	9.5	ns	20		8260	cps	9/13/99
4-Chlorotoluene	< 5	ug/l	5	16	ns	20		8260	cps	9/13/99
4-Methyl-2-Pentanone	< 17	ug/l	17	53	50	20		8260	cps	9/13/99
Acetone	< 31	ug/l	31	99	200	20		8260	cps	9/13/99
Benzene	6.2	ug/l	3.8	12	0.5	20	J	8260	cps	9/13/99
Bromobenzene	< 3.8	ug/l	3.8	12	ns	20		8260	cps	9/13/99
Bromochloromethane	< 6.8	ug/l	6.8	22	ns	20		8260	cps	9/13/99
Bromodichloromethane	< 5.2	ug/l	5.2	17	0.06	20		8260	cps	9/13/99
Bromoform	< 9.4	ug/l	9.4	30	0.44	20		8260	cps	9/13/99
Bromomethane	< 4.2	ug/l	4.2	13	1	20		8260	cps	9/13/99
Carbon tetrachloride	< 4.4	ug/l	4.4	14	0.5	20		8260	cps	9/13/99
Chlorobenzene	8.8	ug/l	4	13	20	20	J	8260	cps	9/13/99
Chloroethane	< 23	ug/l	23	74	80	20		8260	cps	9/13/99
Chloroform	5.8	ug/l	5.4	17	0.6	20	J	8260	cps	9/13/99
Chloromethane	< 15	ug/l	15	49	0.3	20		8260	cps	9/13/99
cis-1,2-Dichloroethene	110	ug/l	4	13	7	20		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3090

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Ext Well Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
cis-1,3-Dichloropropene	< 4.8	ug/l	4.8	15	0.02	20		8260	cps	9/13/99
Dibromochloromethane	< 4.2	ug/l	4.2	13	6	20		8260	cps	9/13/99
Dibromomethane	< 7	ug/l	7	22	ns	20		8260	cps	9/13/99
Dichlorodifluoromethane	8.8	ug/l	7.2	23	200	20	J	8260	cps	9/13/99
Ethylbenzene	4.2	ug/l	3.2	10	140	20	J	8260	cps	9/13/99
Hexachlorobutadiene	< 4.4	ug/l	4.4	14	ns	20		8260	cps	9/13/99
Isopropyl Ether	< 6.4	ug/l	6.4	20	ns	20		8260	cps	9/13/99
Isopropylbenzene	< 3.2	ug/l	3.2	10	ns	20		8260	cps	9/13/99
m&p-xylene	< 7.2	ug/l	7.2	23	124	20		8260	cps	9/13/99
Methyl-t-butyl ether	< 4.2	ug/l	4.2	13	12	20		8260	cps	9/13/99
Methylene chloride	< 15	ug/l	15	48	0.5	20		8260	cps	9/13/99
n-Butylbenzene	< 4.6	ug/l	4.6	15	ns	20		8260	cps	9/13/99
n-Propylbenzene	< 5	ug/l	5	16	ns	20		8260	cps	9/13/99
Naphthalene	< 9.2	ug/l	9.2	29	8	20		8260	cps	9/13/99
o-xylene	< 3.6	ug/l	3.6	11	124	20		8260	cps	9/13/99
p-Isopropyltoluene	< 3.6	ug/l	3.6	11	ns	20		8260	cps	9/13/99
sec-Butylbenzene	< 6	ug/l	6	19	ns	20		8260	cps	9/13/99
Styrene	< 4.2	ug/l	4.2	13	10	20		8260	cps	9/13/99
tert-Butylbenzene	< 4	ug/l	4	13	ns	20		8260	cps	9/13/99
Tetrachloroethene	< 5.8	ug/l	5.8	18	0.5	20		8260	cps	9/13/99
Toluene	< 6.6	ug/l	6.6	21	68.6	20		8260	cps	9/13/99
trans-1,2-Dichloroethene	16	ug/l	3.2	10	20	20		8260	cps	9/13/99
trans-1,3-Dichloropropene	< 4	ug/l	4	13	0.02	20		8260	cps	9/13/99
Trichloroethene	950	ug/l	3.2	10	0.5	20		8260	cps	9/13/99
Trichlorofluoromethane	11	ug/l	6.8	22	ns	20	J	8260	cps	9/13/99
Vinyl chloride	9.4	ug/l	4.2	13	0.02	20	J	8260	cps	9/13/99

Sample Number: 16518 QC Prep Batch Number: 991973 *Sample analyzed within 4 Day(s) from collection.*
Client ID: TRIP BLANK Sample Description: *Collection: 9/9/99 Time:*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/13/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/13/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/13/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/13/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/13/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/13/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/13/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/13/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/13/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/13/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/13/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/13/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C):
PROJECT ID:
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/13/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/13/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/13/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/13/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/13/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/13/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/13/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/13/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/13/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/13/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/13/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/13/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/13/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/13/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/13/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/13/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/13/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/13/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/13/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/13/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/13/99
Chlorobenzene	1.2	ug/l	0.2	0.64	20	1		8260	cps	9/13/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/13/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/13/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/13/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/13/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/13/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/13/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/13/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/13/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/13/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/13/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/13/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/13/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/13/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/13/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/13/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/13/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/13/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/13/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/13/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/13/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/13/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5888 Fax: (414) 355-3899

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990706
DATE REPORTED: 14-Sep-99
DATE RECEIVED: 09-Sep-99
SAMPLE TEMP (C):
PROJECT ID:
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

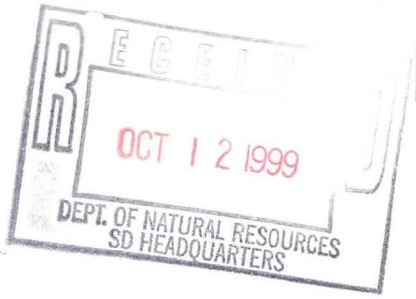
Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/13/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/13/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/13/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/13/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/13/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/13/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	9/13/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/13/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/13/99

Approved By: _____ Date: 9/20/99
James Chang, Ph.D. , Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"e" = Estimate value, over calibration range .*
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.



INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **990726**
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 16-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Nova Sample Number: 16595
Client ID: **990915MW02D**
Collection: 9/15/99 Time: 14:50
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	**<9.9**	**ug/l**		**RJ**	9.9	31	206.2	dmd/rf	9/20/99	*992043*	
Barium - ICAP	**0.06**	**mg/l**		**RJ**	0.002	0.006	200.7	dmd/rf	9/20/99	*992021*	
Cadmium - Furnace AA	**<0.7**	**ug/l**		**TTR**	0.7	2.2	213.2	dmd/rf	9/17/99	*992037*	
Chromium, Total - ICAP	**<0.012**	**mg/l**		**RJ**	0.012	0.04	200.7	dmd/rf	9/20/99	*992021*	
Copper- ICAP	**<0.01**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/20/99	*992021*	
Iron - ICAP	**1.7**	**mg/l**		**RJ**	0.078	0.25	200.7	dmd/rf	9/20/99	*992021*	
Lead - Furnace AA	**<1.4**	**ug/l**		**RJ**	1.4	4.5	239.2	dmd/rf	9/16/99	*992032*	
Manganese - ICAP	**0.05**	**mg/l**		**RJ**	0.004	0.01	200.7	dmd/rf	9/20/99	*992021*	
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	dmd	9/24/99	*992091*	
Nickel - ICAP	**<0.01**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/20/99	*992021*	
Selenium - Furnace AA	**<7.8**	**ug/l**		**RJ**	7.8	25	270.2	dmd/rf	9/22/99	*992058*	
Silver - ICAP	**<0.009**	**mg/l**		**RJ**	0.009	0.03	200.7	dmd/rf	9/20/99	*992021*	
Thallium - Furnace AA	**5.7**	**ug/l**	*J*	**RJ**	4.8	15	279.2	dmd/rf	9/17/99	*992027*	
Zinc - ICAP	**0.03**	**mg/l**	*J*	**RJ**	0.01	0.03	200.7	dmd/rf	9/20/99	*992021*	
Chromium, Hexavalent	**<0.0042**	**mg/l**			0.004	0.01	SM 3500D	80535	9/16/99	*992079*	
Conductivity	**1060**	**umhos/cm**	#				120.1	sh	9/17/99	*992015*	
Cyanide, Amenable	**<0.006**	**mg/l**			0.006	0.02	335.2	srh	9/28/99	*992136*	
Cyanide, Total	**0.007**	**mg/l**	*J*		0.006	0.02	335.2	srh	9/21/99	*992088*	
pH (water)	**7**	**s.u.**	#				150.1	sh	9/17/99	*992014*	

Nova Sample Number: 16596
Client ID: **990915MW13SP**
Collection: 9/15/99 Time:
Sample Description:

Arsenic - Furnace AA	**<9.9**	**ug/l**		**RJ**	9.9	31	206.2	dmd/rf	9/20/99	*992043*	
Barium - ICAP	**0.14**	**mg/l**		**RJ**	0.002	0.006	200.7	dmd/rf	9/20/99	*992021*	
Cadmium - Furnace AA	**<0.7**	**ug/l**		**TTR**	0.7	2.2	213.2	dmd/rf	9/17/99	*992037*	
Chromium, Total - ICAP	**1.6**	**mg/l**		**RJ**	0.012	0.04	200.7	dmd/rf	9/20/99	*992021*	
Copper- ICAP	**0.12**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/20/99	*992021*	
Iron - ICAP	**66**	**mg/l**		**RJ**	0.078	0.25	200.7	dmd/rf	9/20/99	*992021*	
Lead - Furnace AA	**6.5**	**ug/l**		**RJ**	1.4	4.5	239.2	dmd/rf	9/16/99	*992034*	
Manganese - ICAP	**0.64**	**mg/l**		**RJ**	0.004	0.01	200.7	dmd/rf	9/20/99	*992021*	
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	dmd	9/24/99	*992091*	
Nickel - ICAP	**0.22**	**mg/l**		**RJ**	0.01	0.03	200.7	dmd/rf	9/20/99	*992021*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990726
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 16-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Selenium - Furnace AA	**21**	**ug/l**	*J* **RJ**	7.8	25	270.2	dmd/rf	9/22/99	*992058*	
Silver - ICAP	**<0.009**	**mg/l**	**RJ**	0.009	0.03	200.7	dmd/rf	9/20/99	*992021*	
Thallium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	279.2	dmd/rf	9/17/99	*992027*	
Zinc - ICAP	**0.17**	**mg/l**	**RJ**	0.01	0.03	200.7	dmd/rf	9/20/99	*992021*	
Chromium, Hexavalent	**0.01**	**mg/l**	*J*	0.004	0.01	SM 3500D	80535	9/16/99	*992079*	
Conductivity	**939**	**umhos/cm**	#			120.1	sh	9/17/99	*992015*	
Cyanide, Amenable	**0.02**	**mg/l**		0.006	0.02	335.2	srh	9/28/99	*992136*	
Cyanide, Total	**0.02**	**mg/l**		0.006	0.02	335.2	srh	9/21/99	*992088*	
pH (water)	**6.8**	**s.u.**	#			150.1	sh	9/17/99	*992014*	

Approved By: _____ **Date:** 9 29 99
James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*
TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B "J" = Results between LOD and LOQ "#" = no LOD or LOQ required.
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990726
DATE REPORTED: 23-Sep-99
DATE RECEIVED: 16-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 16595		QC Prep Batch Number: 992087					*Sample analyzed within 7 Day(s) from collection.*			
Client ID: 990915MW02D	Sample Description:						*Collection: 9/15/99*	*Time: 14:50*		
1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/22/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/22/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/22/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/22/99
1,1-Dichloroethane	0.57	ug/l	0.15	0.48	85	1		8260	cps	9/22/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/22/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/22/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/22/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/22/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/22/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/22/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/22/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/22/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/22/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/22/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/22/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/22/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/22/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/22/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/22/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/22/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/22/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/22/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/22/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/22/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/22/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/22/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/22/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/22/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/22/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/22/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/22/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/22/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/22/99
Chlorobenzene	0.66	ug/l	0.2	0.64	20	1		8260	cps	9/22/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/22/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/22/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/22/99
cis-1,2-Dichloroethene	1	ug/l	0.2	0.64	7	1		8260	cps	9/22/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/22/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990726
DATE REPORTED: 23-Sep-99
DATE RECEIVED: 16-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/22/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/22/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/22/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/22/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/22/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/22/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/22/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/22/99
Methyl-t-butyl ether	0.6	ug/l	0.21	0.67	12	1	J	8260	cps	9/22/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/22/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/22/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/22/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/22/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/22/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/22/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/22/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/22/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/22/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/22/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/22/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/22/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/22/99
Trichloroethene	0.37	ug/l	0.16	0.51	0.5	1	J	8260	cps	9/22/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/22/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/22/99

Sample Number: 16596 QC Prep Batch Number: 992087 *Sample analyzed within 7 Day(s) from collection.*
Client ID: 990915MW13S Sample Description: *Collection: 9/15/99 Time:*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/22/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/22/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/22/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/22/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/22/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/22/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/22/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/22/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/22/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/22/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/22/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/22/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/22/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/22/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990726
DATE REPORTED: 23-Sep-99
DATE RECEIVED: 16-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/22/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/22/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/22/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/22/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/22/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/22/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/22/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/22/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/22/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/22/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/22/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/22/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/22/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/22/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/22/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/22/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/22/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/22/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/22/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/22/99
Chlorobenzene	0.48	ug/l	0.2	0.64	20	1	J	8260	cps	9/22/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/22/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/22/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/22/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/22/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/22/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/22/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/22/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/22/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/22/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/22/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/22/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/22/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/22/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/22/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/22/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/22/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/22/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/22/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/22/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/22/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/22/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/22/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990726
DATE REPORTED: 23-Sep-99
DATE RECEIVED: 16-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/22/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/22/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/22/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/22/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/22/99
Trichloroethene	0.44	ug/l	0.16	0.51	0.5	1	J	8260	cps	9/22/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/22/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/22/99

Sample Number: 16597 QC Prep Batch Number: 992084 *Sample analyzed within 6 Day(s) from collection.*
Client ID: Trip Blank Sample Description: *Collection: 9/15/99 Time:*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/21/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/21/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/21/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/21/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/21/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/21/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/21/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/21/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/21/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/21/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/21/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/21/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/21/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/21/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/21/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/21/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/21/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/21/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/21/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/21/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/21/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/21/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/21/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/21/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/21/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/21/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/21/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/21/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/21/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/21/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/21/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990726
DATE REPORTED: 23-Sep-99
DATE RECEIVED: 16-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: ogtp

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/21/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/21/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/21/99
Chlorobenzene	1	ug/l	0.2	0.64	20	1		8260	cps	9/21/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/21/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/21/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/21/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/21/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/21/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/21/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/21/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/21/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/21/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/21/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/21/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/21/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/21/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/21/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/21/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/21/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/21/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/21/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/21/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/21/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/21/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/21/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/21/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/21/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/21/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/21/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/21/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	9/21/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/21/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/21/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990726
DATE REPORTED: 23-Sep-99
DATE RECEIVED: 16-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: ogtp

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal

Approved By: _____ Date: 9/29/99
James Chang, Ph.D. , Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"e" = Estimate value, over calibration range .*
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990717
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Nova Sample Number: 16554
Client ID: **990914WA01P**
Collection: 9/14/99 Time: 14:20
Sample Description:

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#
Arsenic - Furnace AA	14	ug/l	J RJ	9.9	31	206.2	dmd/rf	9/20/99	992042
Barium - ICAP	0.09	mg/l	RJ	0.002	0.006	200.7	dmd/rf	9/17/99	992019
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	9/17/99	992036
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	9/17/99	992019
Copper- ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	9/17/99	992019
Iron - ICAP	1	mg/l	RJ	0.078	0.25	200.7	dmd/rf	9/17/99	992019
Lead - Furnace AA	3.9	ug/l	J RJ	1.4	4.5	239.2	dmd/rf	9/17/99	992030
Manganese - ICAP	0.1	mg/l	RJ	0.004	0.01	200.7	dmd/rf	9/17/99	992019
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	9/16/99	991988
Nickel - ICAP	12	ug/l	J RJ	10	32	200.7	dmd/rf	9/17/99	992019
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	9/22/99	992056
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	9/17/99	992019
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd/rf	9/17/99	992027
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	9/17/99	992019
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500D	80535	9/15/99	992079
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	9/28/99	992136
Cyanide, Total	0.01	mg/l	J	0.006	0.02	335.2	srh	9/21/99	992088
pH (water)	7.3	s.u.	#			150.1	ag	9/15/99	991992

Nova Sample Number: 16555
Client ID: **990914WA09R**
Collection: 9/14/99 Time: 14:50
Sample Description:

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#
Arsenic - Furnace AA	10	ug/l	J RJ	9.9	31	206.2	dmd/rf	9/20/99	992042
Barium - ICAP	0.01	mg/l	RJ	0.002	0.006	200.7	dmd/rf	9/17/99	992019
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	9/17/99	992036
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	9/17/99	992019
Copper- ICAP	0.01	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	9/17/99	992019
Iron - ICAP	0.2	mg/l	J RJ	0.078	0.25	200.7	dmd/rf	9/17/99	992019
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd/rf	9/17/99	992030
Manganese - ICAP	<0.004	mg/l	RJ	0.004	0.01	200.7	dmd/rf	9/17/99	992019
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	9/16/99	991988
Nickel - ICAP	12	ug/l	J RJ	10	32	200.7	dmd/rf	9/17/99	992019
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	9/22/99	992056

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER	990717
DATE REPORTED:	29-Sep-99
DATE RECEIVED:	14-Sep-99
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	Weekly Samplin
PROJECT NAME:	OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Silver - ICAP	**<0.009**	**mg/l**	**RJ**	0.009	0.03	200.7	dmd/rf	9/17/99	*992019*	
Thallium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	279.2	dmd/rf	9/17/99	*992027*	
Zinc - ICAP	**0.02**	**mg/l**	***J*** **RJ**	0.01	0.03	200.7	dmd/rf	9/17/99	*992019*	
Nova Sample Number: 16556										
Client ID: **990914WA02P**								Collection: 9/14/99		Time: 14:25
								Sample Description:		
pH (water)	**10**	**s.u.**	**#**			150.1	ag	9/15/99	*991992*	
Nova Sample Number: 16557										
Client ID: **990914WA03P**								Collection: 9/14/99		Time: 14:30
								Sample Description:		
pH (water)	**11**	**s.u.**	**#**			150.1	ag	9/15/99	*991992*	
Nova Sample Number: 16558										
Client ID: **990914WA05P**								Collection: 9/14/99		Time: 14:35
								Sample Description:		
pH (water)	**9.4**	**s.u.**	**#**			150.1	ag	9/15/99	*991992*	
Nova Sample Number: 16560										
Client ID: **990914WA09P**								Collection: 9/14/99		Time: 14:45
								Sample Description:		
Chromium, Hexavalent	**<0.0042**	**mg/l**		0.004	0.01	SM 3500D	80535	9/15/99	*992079*	
Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/28/99	*992136*	
Cyanide, Total	**0.03**	**mg/l**		0.006	0.02	335.2	srh	9/21/99	*992088*	
pH (water)	**8.7**	**s.u.**	**#**			150.1	ag	9/15/99	*991992*	

Approved By: _____ **Date:** 9/29/99
James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*
TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"J" = Results between LOD and LOQ* *"#" = no LOD or LOQ required.*
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5888 Fax: (414) 355-3699

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990717
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 16554		QC Prep Batch Number: 992010			*Sample analyzed within*	*1*	*Day(s) from collection.*			
Client ID: 990914WA01P	Sample Description:				*Collection:*	*9/14/99*	*Time:*	*14:20*		
1,1,1,2-Tetrachloroethane	< 2	ug/l	2	6.4	ns	10		8260	cps	9/15/99
1,1,1-Trichloroethane	100	ug/l	2.3	7.3	40	10		8260	cps	9/15/99
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	0.02	10		8260	cps	9/15/99
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	0.5	10		8260	cps	9/15/99
1,1-Dichloroethane	30	ug/l	1.5	4.8	85	10		8260	cps	9/15/99
1,1-Dichloroethene	5.8	ug/l	3.6	11	0.7	10	J	8260	cps	9/15/99
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	ns	10		8260	cps	9/15/99
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7	ns	10		8260	cps	9/15/99
1,2,3-Trichloropropane	< 6	ug/l	6	19	ns	10		8260	cps	9/15/99
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	14	10		8260	cps	9/15/99
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	9/15/99
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	0.005	10		8260	cps	9/15/99
1,2-Dichlorobenzene	< 2	ug/l	2	6.4	60	10		8260	cps	9/15/99
1,2-Dichloroethane	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	9/15/99
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	0.5	10		8260	cps	9/15/99
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	cps	9/15/99
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6	125	10		8260	cps	9/15/99
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	ns	10		8260	cps	9/15/99
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	15	10		8260	cps	9/15/99
12Dibromo-3-chloropropan	< 5.9	ug/l	5.9	19	0.02	10		8260	cps	9/15/99
2,2-Dichloropropane	< 4	ug/l	4	13	ns	10		8260	cps	9/15/99
2-Butanone (MEK)	< 14	ug/l	14	44	90	10		8260	cps	9/15/99
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	9/15/99
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	ns	10		8260	cps	9/15/99
4-Chlorotoluene	< 2.5	ug/l	2.5	8	ns	10		8260	cps	9/15/99
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	50	10		8260	cps	9/15/99
Acetone	< 16	ug/l	16	49	200	10		8260	cps	9/15/99
Benzene	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	9/15/99
Bromobenzene	< 1.9	ug/l	1.9	6	ns	10		8260	cps	9/15/99
Bromochloromethane	< 3.4	ug/l	3.4	11	ns	10		8260	cps	9/15/99
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	0.06	10		8260	cps	9/15/99
Bromoform	< 4.7	ug/l	4.7	15	0.44	10		8260	cps	9/15/99
Bromomethane	< 2.1	ug/l	2.1	6.7	1	10		8260	cps	9/15/99
Carbon tetrachloride	< 2.2	ug/l	2.2	7	0.5	10		8260	cps	9/15/99
Chlorobenzene	2.4	ug/l	2	6.4	20	10	J	8260	cps	9/15/99
Chloroethane	< 12	ug/l	12	37	80	10		8260	cps	9/15/99
Chloroform	< 2.7	ug/l	2.7	8.6	0.6	10		8260	cps	9/15/99
Chloromethane	< 7.7	ug/l	7.7	24	0.3	10		8260	cps	9/15/99
cis-1,2-Dichloroethene	43	ug/l	2	6.4	7	10		8260	cps	9/15/99
cis-1,3-Dichloropropene	< 2.4	ug/l	2.4	7.6	0.02	10		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990717
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 2.1	ug/l	2.1	6.7	6	10		8260	cps	9/15/99
Dibromomethane	< 3.5	ug/l	3.5	11	ns	10		8260	cps	9/15/99
Dichlorodifluoromethane	< 3.6	ug/l	3.6	11	200	10		8260	cps	9/15/99
Ethylbenzene	< 1.6	ug/l	1.6	5.1	140	10		8260	cps	9/15/99
Hexachlorobutadiene	< 2.2	ug/l	2.2	7	ns	10		8260	cps	9/15/99
Isopropyl Ether	< 3.2	ug/l	3.2	10	ns	10		8260	cps	9/15/99
Isopropylbenzene	< 1.6	ug/l	1.6	5.1	ns	10		8260	cps	9/15/99
m&p-xylene	< 3.6	ug/l	3.6	11	124	10		8260	cps	9/15/99
Methyl-t-butyl ether	< 2.1	ug/l	2.1	6.7	12	10		8260	cps	9/15/99
Methylene chloride	< 7.6	ug/l	7.6	24	0.5	10		8260	cps	9/15/99
n-Butylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	cps	9/15/99
n-Propylbenzene	< 2.5	ug/l	2.5	8	ns	10		8260	cps	9/15/99
Naphthalene	< 4.6	ug/l	4.6	15	8	10		8260	cps	9/15/99
o-xylene	< 1.8	ug/l	1.8	5.7	124	10		8260	cps	9/15/99
p-Isopropyltoluene	< 1.8	ug/l	1.8	5.7	ns	10		8260	cps	9/15/99
sec-Butylbenzene	< 3	ug/l	3	9.5	ns	10		8260	cps	9/15/99
Styrene	< 2.1	ug/l	2.1	6.7	10	10		8260	cps	9/15/99
tert-Butylbenzene	< 2	ug/l	2	6.4	ns	10		8260	cps	9/15/99
Tetrachloroethene	< 2.9	ug/l	2.9	9.2	0.5	10		8260	cps	9/15/99
Toluene	< 3.3	ug/l	3.3	10	68.6	10		8260	cps	9/15/99
trans-1,2-Dichloroethene	4	ug/l	1.6	5.1	20	10	J	8260	cps	9/15/99
trans-1,3-Dichloropropene	< 2	ug/l	2	6.4	0.02	10		8260	cps	9/15/99
Trichloroethene	351	ug/l	1.6	5.1	0.5	10		8260	cps	9/15/99
Trichlorofluoromethane	< 3.4	ug/l	3.4	11	ns	10		8260	cps	9/15/99
Vinyl chloride	< 2.1	ug/l	2.1	6.7	0.02	10		8260	cps	9/15/99

Sample Number: 16559 QC Prep Batch Number: 992010 *Sample analyzed within 1 Day(s) from collection.*
Client ID: 990914WA07P Sample Description: *Collection: 9/14/99 Time: 14:40*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/15/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/15/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/15/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/15/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/15/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/15/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/15/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/15/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/15/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5888 Fax: (414) 355-3899

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990717
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/15/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/15/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/15/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/15/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/15/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/15/99
2-Butanone (MEK)	11	ug/l	1.4	4.4	90	1		8260	cps	9/15/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/15/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/15/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/15/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/15/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/15/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/15/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/15/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/15/99
Chlorobenzene	0.37	ug/l	0.2	0.64	20	1	J	8260	cps	9/15/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/15/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/15/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/15/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/15/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/15/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/15/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/15/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/15/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/15/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/15/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/15/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/15/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/15/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/15/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/15/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/15/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/15/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/15/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3093

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990717
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/15/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/15/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/15/99
Trichloroethene	0.67	ug/l	0.16	0.51	0.5	1		8260	cps	9/15/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/15/99

Sample Number: 16560 QC Prep Batch Number: 992010 *Sample analyzed within 1 Day(s) from collection.*
Client ID: 990914WA09P Sample Description: *Collection: 9/14/99 Time: 14:45*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/15/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/15/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/15/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/15/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/15/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/15/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/15/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/15/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/15/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/15/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/15/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/15/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/15/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/15/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/15/99
2-Butanone (MEK)	5.2	ug/l	1.4	4.4	90	1		8260	cps	9/15/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/15/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/15/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/15/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/15/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Bromodichloromethane	0.42	ug/l	0.26	0.83	0.06	1	J	8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990717
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/15/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/15/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/15/99
Chlorobenzene	0.7	ug/l	0.2	0.64	20	1		8260	cps	9/15/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/15/99
Chloroform	2.9	ug/l	0.27	0.86	0.6	1		8260	cps	9/15/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/15/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/15/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/15/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/15/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/15/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/15/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/15/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/15/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/15/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/15/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/15/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/15/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/15/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/15/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/15/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/15/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/15/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/15/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/15/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/15/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	9/15/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/15/99

Sample Number: 16561 QC Prep Batch Number: 992010 *Sample analyzed within 1 Day(s) from collection.*
Client ID: Trip Blank Sample Description: *Collection: 9/14/99 Time:*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/15/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/15/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990717
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/15/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/15/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/15/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/15/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/15/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/15/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/15/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/15/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/15/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/15/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/15/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/15/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/15/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/15/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/15/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/15/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/15/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/15/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/15/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/15/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/15/99
Chlorobenzene	0.9	ug/l	0.2	0.64	20	1		8260	cps	9/15/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/15/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/15/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/15/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/15/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/15/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/15/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/15/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/15/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/15/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/15/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/15/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990717
DATE REPORTED: 16-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Sampling
PROJECT NAME: OGTP

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/15/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/15/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/15/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/15/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/15/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/15/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/15/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/15/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/15/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/15/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	9/15/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/15/99

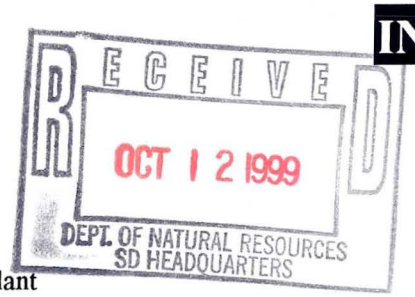
Approved By: _____ **Date:** 9/20/99
James Chang, Ph.D., Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"e" = Estimate value, over calibration range .*
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.

INORGANIC REPORT



WDNR# 241340550

INVOICE NUMBER **990712**
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

Anthony Goodman
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Nova Sample Number: 16536
Client ID: **990913MW14DP**

Collection: 9/13/99 Time: 14:00
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<9.9	ug/l		RJ	9.9	31	206.2	dmd/rf	9/14/99	991976	
Barium - ICAP	0.04	mg/l		RJ	0.002	0.006	200.7	dmd/rf	9/17/99	992019	
Cadmium - Furnace AA	<0.7	ug/l		TTR	0.7	2.2	213.2	dmd/rf	9/17/99	992036	
Chromium, Total - ICAP	<0.012	mg/l		RJ	0.012	0.04	200.7	dmd/rf	9/17/99	992019	
Copper- ICAP	<0.01	mg/l		RJ	0.01	0.03	200.7	dmd/rf	9/17/99	992019	
Iron - ICAP	0.28	mg/l		RJ	0.078	0.25	200.7	dmd/rf	9/17/99	992019	
Lead - Furnace AA	4.3	ug/l	J	RJ	1.4	4.5	239.2	dmd/rf	9/17/99	992030	
Manganese - ICAP	0.07	mg/l		RJ	0.004	0.01	200.7	dmd/rf	9/17/99	992019	
Mercury CV	0.0004	mg/l	J	RJ	0.0002	0.0006	245.1	dmd	9/16/99	991988	
Nickel - ICAP	<0.01	mg/l		RJ	0.01	0.03	200.7	dmd/rf	9/17/99	992019	
Selenium - Furnace AA	18	ug/l	J	RJ	7.8	25	270.2	dmd/rf	9/22/99	992056	
Silver - ICAP	<0.009	mg/l		RJ	0.009	0.03	200.7	dmd/rf	9/17/99	992019	
Thallium - Furnace AA	<4.8	ug/l		RJ	4.8	15	279.2	dmd/rf	9/17/99	992027	
Zinc - ICAP	0.01	mg/l	J	RJ	0.01	0.03	200.7	dmd/rf	9/17/99	992019	
Chromium, Hexavalent	<0.042	mg/l			0.004	0.01	SM 3500D	12805	9/14/99	991986	
Conductivity	490	umhos/cm	#				120.1	sh	9/15/99	991990	
Cyanide, Amenable	<0.006	mg/l			0.006	0.02	335.2	srh	9/28/99	992136	
Cyanide, Total	<0.006	mg/l			0.006	0.02	335.2	srh	9/21/99	992088	
pH (water)	6.8	s.u.	#				150.1	sh	9/15/99	991992	

Nova Sample Number: 16537
Client ID: **990913MW15DP**

Collection: 9/13/99 Time: 14:40
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<9.9	ug/l		RJ	9.9	31	206.2	dmd/rf	9/20/99	992042	
Barium - ICAP	0.1	mg/l		RJ	0.002	0.006	200.7	dmd/rf	9/17/99	992019	
Cadmium - Furnace AA	<0.7	ug/l		TTR	0.7	2.2	213.2	dmd/rf	9/17/99	992036	
Chromium, Total - ICAP	0.02	mg/l	J	RJ	0.012	0.04	200.7	dmd/rf	9/17/99	992019	
Copper- ICAP	0.03	mg/l	J	RJ	0.01	0.03	200.7	dmd/rf	9/17/99	992019	
Iron - ICAP	0.65	mg/l		RJ	0.078	0.25	200.7	dmd/rf	9/17/99	992019	
Lead - Furnace AA	2.1	ug/l	J	RJ	1.4	4.5	239.2	dmd/rf	9/17/99	992030	
Manganese - ICAP	0.2	mg/l		RJ	0.004	0.01	200.7	dmd/rf	9/17/99	992019	
Mercury CV	0.0002	mg/l	J	RJ	0.0002	0.0006	245.1	dmd	9/16/99	991988	
Nickel - ICAP	<0.01	mg/l		RJ	0.01	0.03	200.7	dmd/rf	9/17/99	992019	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990712
DATE REPORTED: 29-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

Anthony Goodman
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Selenium - Furnace AA	**<7.8**	**ug/l**	**RJ**	7.8	25	270.2	dmd/rf	9/22/99	*992056*	
Silver - ICAP	**<0.009**	**mg/l**	**RJ**	0.009	0.03	200.7	dmd/rf	9/17/99	*992019*	
Thallium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	279.2	dmd/rf	9/17/99	*992027*	
Zinc - ICAP	**0.02**	**mg/l**	*J* **RJ**	0.01	0.03	200.7	dmd/rf	9/17/99	*992019*	
Chromium, Hexavalent	**<0.042**	**mg/l**		0.004	0.01	SM 3500D	12805	9/14/99	*991986*	
Conductivity	**889**	**umhos/cm**	#			120.1	sh	9/15/99	*991990*	
Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/28/99	*992136*	
Cyanide, Total	**<0.006**	**mg/l**		0.006	0.02	335.2	srh	9/21/99	*992088*	
pH (water)	**7.4**	**s.u.**	#			150.1	sh	9/15/99	*991992*	

Approved By: _____ **Date:** 9/27/99

James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*
TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"J" = Results between LOD and LOQ* *"#" = no LOD or LOQ required.*
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990712
DATE REPORTED: 17-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

Anthony Goodman
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 16536		QC Prep Batch Number: 992010			*Sample analyzed within*	2	*Day(s) from collection.*			
Client ID: 990913MW14D	Sample Description:				*Collection:*	9/13/99	*Time:* 14:00			
1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/15/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/15/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/15/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/15/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/15/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/15/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/15/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/15/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/15/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/15/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/15/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/15/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/15/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/15/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/15/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/15/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/15/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/15/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/15/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/15/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/15/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/15/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/15/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/15/99
Chlorobenzene	0.54	ug/l	0.2	0.64	20	1	J	8260	cps	9/15/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/15/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/15/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/15/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	9/15/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990712
DATE REPORTED: 17-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

Anthony Goodman
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/15/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/15/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/15/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/15/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/15/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/15/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/15/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	9/15/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/15/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/15/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/15/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/15/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/15/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/15/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/15/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	9/15/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/15/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	9/15/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/15/99

Sample Number: 16537 QC Prep Batch Number: 992010 *Sample analyzed within 2 Day(s) from collection.*
Client ID: 990913MW15D Sample Description: *Collection: 9/13/99 Time: 14:40*

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	9/15/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	9/15/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	9/15/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	9/15/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	9/15/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	9/15/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	9/15/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	9/15/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	9/15/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5888 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990712
DATE REPORTED: 17-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

Anthony Goodman
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	9/15/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	9/15/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	9/15/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	9/15/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	9/15/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	9/15/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	9/15/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	9/15/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	9/15/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	9/15/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	9/15/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	9/15/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	9/15/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	9/15/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	9/15/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	9/15/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	9/15/99
Chlorobenzene	5.6	ug/l	0.2	0.64	20	1		8260	cps	9/15/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	9/15/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	9/15/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	9/15/99
cis-1,2-Dichloroethene	3.5	ug/l	0.2	0.64	7	1		8260	cps	9/15/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	9/15/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	9/15/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	9/15/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	9/15/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	9/15/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	9/15/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	9/15/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	9/15/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	9/15/99
Methyl-t-butyl ether	0.85	ug/l	0.21	0.67	12	1		8260	cps	9/15/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	9/15/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	9/15/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	9/15/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	9/15/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	9/15/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	9/15/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	9/15/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	9/15/99

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990712
DATE REPORTED: 17-Sep-99
DATE RECEIVED: 14-Sep-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling
PROJECT NAME: OGTP

Anthony Goodman
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	9/15/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	9/15/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	9/15/99
trans-1,2-Dichloroethene	0.44	ug/l	0.16	0.51	20	1	J	8260	cps	9/15/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	9/15/99
Trichloroethene	29	ug/l	0.16	0.51	0.5	1		8260	cps	9/15/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	9/15/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	9/15/99

Approved By: _____ Date: 9/20/99
James Chang, Ph.D., Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"e" = Estimate value, over calibration range.*
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.