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QUARTERLY MONITORING REPORT
PERIMETER GROUNDWATER CONTAINMENT SYSTEM
GROUNDWATER TREATMENT SYSTEM

AMERICAN CHEMICAL SERVICE NPL SITE
GRIFFITH, INDIANA

Montgomery Watson File No. 1252057

Prepared For:

American Chemical Service
Griffith, Indiana

Prepared By:

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October 1997

MONTGOMERY WATSON

QUARTERLY MONITORING REPORT
GROUNDWATER TREATMENT SYSTEM

AMERICAN CHEMICAL SERVICE NPL SITE
GRIFFITH, INDIANA

Prepared For:

American Chemical Service
Griffith, Indiana

Prepared by: _____ 10/14/97
FOR Srinivas S. N. Devulapalli — Date
Senior Engineer

Approved by: _____ _____
Peter J. Vagt, Ph.D., CPG — Date
Project Manager

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1.0 INTRODUCTION

Montgomery Watson, on behalf of the ACS RD/RA Executive Committee, commenced operation of an on-site groundwater treatment system at the American Chemical Service NPL Site in Griffith, Indiana on March 13, 1997. This treatment system was designed to treat groundwater from the perimeter groundwater containment system (PGCS) and limited volumes of water from the Barrier Wall Extraction System (BWES). The treated effluent from the treatment system is discharged to the nearby wetlands, west of the treatment system in accordance with Agency approvals. The treatment train consists of a phase separator for oil and free product removal, equalization tanks, a UV-oxidation unit for destruction of organic constituents, a chemical precipitation and clarification unit to remove metals, a sand filter to remove suspended solids, and activated carbon vessels for final polishing of the treated groundwater. An air stripper has been added to treat methylene chloride in the groundwater.

Although the majority of the treatment system capacity was originally designed to treat PGCS-associated groundwater only, the system is also used to treat groundwater from the barrier wall extraction system (BWES). The groundwater associated with the BWES typically has higher concentrations than that of the PGCS due to their respective locations on the ACS site. Consequently, efforts are being made to modify the treatment system to accommodate more of the BWES related groundwater.

This is the first quarterly monitoring report for the treatment system, and therefore it summarizes all the analytical data collected between March 13 (when operations commenced) and August 28, 1997. The first quarter of operations was consumed by startup, testing and optimization of the groundwater treatment system. The startup, testing and optimization work for the groundwater treatment system was done in accordance with the PGCS Performance Standard Verification Plan (PSVP) dated April 1997. The treatment system was initially operated in batch mode in which the discharge from the treatment system was stored in temporary collection tanks instead of being directly discharged to the wetlands. Once receipt and review of the analytical data indicated that the effluent was in compliance with discharge standards, temporary tank contents were discharged to the wetlands. The treatment system did not operate between March 13 and 18, 1997, because Montgomery Watson was awaiting analytical results. Montgomery Watson re-started the treatment system on April 8, 1997, which is considered the second day of operation. The effluent from the treatment system was then discharged to the wetlands. April 9, 17, 21, 22 and 24, 1997 were operating days 3, 4, 5, 6 and 7, respectively. The treatment system was shut down during the period of April 25 through May 20, 1997, because Montgomery Watson was awaiting analytical results prior to discharging treated groundwater to the wetlands. The treated groundwater from April 9, 17, 21, 22 and 26, 1997, was stored in temporary storage tanks. Upon receiving analytical data that indicated compliance, the treated groundwater was discharged to the wetlands. Operation of the treatment system resumed on May 21, 1997, on a continuous basis. The following table summarizes the chronology of the system operation.

Table 1.1 Operation Chronology

Day 1	3/13/97	0 - 7 Days
Day 2	4/8/97	
Day 3	4/9/97	
Day 4	4/17/97	
Day 5 6	4/21/97	
Day 6	4/22/97	
Day 7	4/24/97	
Week 1	5/21/97	8 - 30 Days
Week 2	5/29/97	
Week 3	6/5/97	
Month 1	6/13/97	Monthly
Month 2	7/3/97	
Month 3	8/13/97	

Section 2 presents the effluent discharge limitations imposed by the Indiana Department of Environmental Management (IDEM) and the United States Environmental Protection Agency (U.S. EPA) for the wetland discharge. Section 2 also presents details of the analytical methods and summarizes the data collected to date. During process optimization of the treatment system, exceedances of the effluent discharge limitations were observed for a couple of parameters. Appropriate process modifications were immediately implemented to eliminate the exceedance situations, and then samples were collected and analyzed to demonstrate compliance with the limitations. Details of these process modifications are discussed in Section 3 of this report. U.S. EPA was immediately notified of each of these exceedances and measures have been taken to minimize the occurrence of future exceedances.

2.0 COMPLIANCE MONITORING

2.1 INTRODUCTION

Effluent samples were periodically collected from the treatment system to demonstrate compliance with the discharge limitations (Table 2.1) established by IDEM and the U.S. EPA. Effluent samples were collected in accordance with the sampling frequency delineated in the U.S. EPA approved PSVP, which is presented in Table 2.2. Sampling and analyses were performed in accordance with the approved Quality Assurance Project Plan (QAPP) prepared by Montgomery Watson for the ACS RD/RA Executive Committee in April 1997. The following sections present details on sampling and analyses, and also summarize the analytical data collected to date on the treatment system effluent.

2.2 SAMPLING AND ANALYSES

Effluent samples were collected directly from a sample tap on the effluent line just before it exits the groundwater treatment system building. All effluent samples were placed in contaminant-free containers, as specified in the U.S. EPA Specifications and Guidance for Obtaining Contaminant-Free Sample Containers (U.S. EPA, 1992). Appropriate sample containers and preservatives, as specified in the QAPP, were used to collect and preserve the samples. Following sample collection, the sample containers were refrigerated at 4° C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories. The following analytical methods were adopted to analyze samples:

- VOCs (Analytical Method: SW-846 8260A)
- SVOCs (Analytical Method: SW-846 8270B)
- Pentachlorophenol (Analytical Method: SW-846 8270B and SIM)
- Pesticides/PCBs (Analytical Method: EPA 608)
- Metals (Excluding Mercury) (Analytical Method: SW-846 6010)
- General Water Quality Parameters (TSS and BOD-5) (Analytical Method: EPA 160.2 and 405.1)
- Mercury (Analytical Method: SW-846 7470)
- pH (Analytical Method: EPA 150.1)

2.3 ANALYTICAL RESULTS

During the period of March 13, 1997, through August 28, 1997, the treatment system effluent has been in compliance with the discharge limitations in Table 2.1 with a few exceptions. A comparison of the analytical data collected to date with the discharge limitations is presented in Table 2.3. There were two pH, two arsenic, three methylene chloride, two vinyl chloride and one TSS reported by the laboratory that exceeded the

discharge limits during this monitoring period. Two of these exceedances are considered to be laboratory errors. Montgomery Watson suspects one additional exceedance to also be a laboratory error. Section 3 presents details of these exceedances and the measures already adopted to rectify such situations.

In general, the groundwater treatment system effluent pH was in the range of 7.3 to 9.0. The effluent pH exceeded the upper discharge limit of 9.0 on June 27 and July 29, 1997. With the exception of July 29, 1997, total suspended solids (TSS) were not detected for most of the compliance monitoring period. The five-day biochemical oxygen demand (BOD_5) was always below the effluent discharge limit. Barring two arsenic exceedances, metal constituent concentrations were consistently below the effluent discharge limits. Volatile organic constituents, barring three methylene chloride and two vinyl chloride, exceedances were below the effluent limits; typically, non-detect concentrations were observed for a majority of the constituents. All of the regulated semi-volatile constituents were well below the effluent limits of the groundwater treatment system. Detailed analytical reports are appended at the end of this document.

Table 2.1 Groundwater Treatment System Effluent Discharge Limits
American Chemical Service NPL Site
Griffith, Indiana

Groundwater Quality Parameter	Effluent Standard (Limit)
General Water Quality Parameters	
BOD-5	30 mg/L
TSS	30 mg/L
pH	6 - 9 S.U.
Inorganics	
Arsenic	50 µg/L
Beryllium	
Cadmium	4.1 µg/L
Manganese	
Mercury	0.02 µg/L (w/DL = 0.64)
Selenium	8.2 µg/L
Thallium	
Zinc	411 µg/L
Volatile Organics	
Acetone	6,800 µg/L
Benzene	5 µg/L
2-Butanone	210 µg/L
Chloromethane	
1,4 - Dichlorobenzene	
1,1 - Dichloroethane	
1,2 - Dichloroethene - cis	70 µg/L
Ethylbenzene	34 µg/L
Methylene chloride	5 µg/L
Tetrachloroethene	5 µg/L
Trichloroethene	5 µg/L
Vinyl chloride	2 µg/L
4 - Methyl - 2 - pentanone	15 µg/L
Semi-Volatile Organics	
bis(2 - Chloroethyl) ether	9.6 µg/L
bis(2 - Ethylhexyl) phthalate	6 µg/L
Isophorone	50 µg/L
4 - Methylphenol	34 µg/L
Pentachlorophenol	1 µg/L
PCBs	
PCBs	0.00056 µg/L (w/DL = 0.1)

Table 2.2 Sampling Frequency Scheme
Groundwater Treatment System
American Chemical Service NPL Site
Griffith, Indiana

Analytes	Cumulative Time From Startup*	Frequency
Flowrate and pH	–	Continuous
BOD, TSS, SVOCs and Metals	0 to 7 days	Once per day
	8 to 30 days	Once per week
	31 to 180 days	Once per month
	181 days onward	Once per quarter
VOCs	0 to 7 days	Once per day
	8 to 30 days	Once per week
	31 days onward	Once per month
PCBs	0 to 7 days	Once
	8 to 30 days	Once
	31 to 180 days	Twice
	181 days onward	Once per quarter
PCBs in Sediment (one location)	–	Once per year

* *Cumulative time from startup of the groundwater treatment system. Startup refers to the point at which contaminated groundwater from the extraction trench was being introduced into the treatment system. Startup occurred once the initial equipment/system testing with clean water was completed (March 13, 1997).*

3.0 TREATMENT SYSTEM PROCESS MODIFICATIONS

Treatment system modifications were implemented to address all experienced discharge exceedances. During the period of March 1997 through August 1997, the following effluent discharge limit exceedances were observed:

Table 3.1 Groundwater Treatment System Discharge Exceedances

Sample Date	Parameter	Measured Concentration	Discharge Limit
June 11, 1997	Methylene Chloride	110 µg/L	5 µg/L
June 11, 1997	Vinyl Chloride	6.8 µg/L	2 µg/L
June 18, 1997	Methylene Chloride	58 µg/L	5 µg/L
June 18, 1997	Vinyl Chloride	37 µg/L	2 µg/L
June 23, 1997	Methylene Chloride	13 µg/L	5 µg/L
June 27, 1997*	pH	10	6 - 9
June 27, 1997	Arsenic	0.17 mg/L	0.05 mg/L
July 10, 1997	Arsenic	0.061 mg/L	0.05 mg/L
July 29, 1997*	pH	9.9	6 - 9
July 29, 1997*	TSS	96 mg/L	30 mg/L

* *Laboratory error*

The following is a summary of the measures undertaken by Montgomery Watson to verify and prevent the recurrence of the above listed exceedances:

- Montgomery Watson evaluated various options to prevent future occurrences of Vinyl Chloride and Methylene Chloride exceedances, which occurred on the June 11, 18 and 23, 1997, sampling event. These efforts included optimization studies on the UV Oxidizer. On July 9, 1997, a shallow tray air stripper was installed downstream of the sand filter to strip the methylene chloride and vinyl chloride from the sand filter effluent. Following addition of the air stripper, discharge exceedances for these two constituents have not been observed. The addition of the air stripper has successfully eliminated the recurrence of such exceedances.

- The laboratory reported pH exceedance on June 27, 1997, is suspected to be a laboratory error. Montgomery Watson reviewed the continuous effluent pH and the carbon vessels influent pH recordings during the operating period. Unfortunately, the effluent pH probe had malfunctioned on this sampling day. However, it has been Montgomery Watson's experience from operating this treatment system, that there is no significant variation in the influent and effluent pH of the carbon vessels. The carbon vessel influent pH was 8.5; therefore, we believe that the laboratory result for the effluent pH was in error, probably a

matrix interference in the laboratory, or sample container contamination (i.e., presence of a preservative).

- The Arsenic exceedances observed on June 27, 1997, and July 10, 1997, were resolved by lowering the target chemical precipitation pH of the clarifier from 10.0 to 8.5. A lower pH was necessary to precipitate the Arsenic from the groundwater. Following this process modification change, no further Arsenic exceedances have been observed.

- On July 29, 1997, the laboratory reported a pH and TSS exceedance in the treatment system effluent. Montgomery Watson reviewed the sampling observations made during collection of the samples on this day. The samples collected for compliance monitoring on this day were clear (no visual observance of TSS; TSS of 96 mg/L should be fairly visible to the naked eye). The groundwater treatment system has an in-line pH probe and transmitter that sets off a low alarm when the effluent pH drops below 6.0 and a high pH alarm when the effluent pH exceeds 9.0. On July 29, 1997, the operations staff of Montgomery Watson did not receive a high pH alarm from the transmitter. Further, the results of the August 5, 1997, compliance monitoring sample revealed an effluent pH of 7.4 and a non-detect TSS. Therefore, Montgomery Watson believes that the original sample analyses of pH and TSS on July 29, 1997, were in error, possibly due to matrix interference at the laboratory, or sample container contamination (i.e., the presence of a preservative). Montgomery Watson believes that the pH and TSS values in the treatment system effluent were not in exceedance of the effluent discharge limitations. Also, a review of the analytical data summarized in Table 2.3 reveals that TSS concentrations were typically non-detect, suggesting that the TSS concentration on July 29, 1997, was an outlier and probably an error.

4.0 PGCS GAUGING ACTIVITIES

As previously described, the PGCS trenches and groundwater treatment system were initially operated in batch mode; pumping for a day, collecting a sample and turning the system off until analytical results indicating compliance with discharge limits were received. However, on May 19, 1997, operation of the PGCS trenches were turned on and operated in "auto" mode (semi-continuously). Gauging was evaluated on the PGCS piezometers to determine the effect of the pumping system. Water level measurements were taken daily for seven days starting on May 19, and weekly for three weeks thereafter. The dates of the measurements are as follows: May 19 through 25, May 28, June 5 and 11, 1997.

The influence of the PGCS trench on groundwater flow patterns in the upper aquifer is shown in Figures 1 through 5:

- As shown in Figure 1 (May 19), groundwater elevations prior to the operation of the PGCS are from approximately 631.0 feet amsl at piezometer nest P90/P91/P92 to 633.0 feet amsl at nest P81/P82/P83. The direction of groundwater flow is from east to west.

- Figure 2 (May 20) represents the potentiometric surface of the upper aquifer after approximately one day of semi-continuous operation. The groundwater elevations are clearly influenced by the PGCS trench. Upper aquifer groundwater is clearly being drawn into the trench, as water levels dropped approximately 0.5 feet at each PGCS piezometer nest.

- As shown in Figure 3 (May 24), water levels dropped approximately one foot below levels established prior to PGCS operation at piezometer nests P81/P82/P/83 and P90/P91/P92 after six days of semi-continuous operation.

- As shown in Figure 4 (June 5), groundwater is clearly being conveyed to the PGCS trench. The groundwater contours to the north of piezometer net P87/P88/P89 indicate a strong gradient toward the trench. Additionally, the potentiometric surface at PGCS piezometer nest P90/P91/P92 dropped approximately 2.0 feet as compared to groundwater elevations prior to PGCS initiation.

- After four idle days (not operating the PGCS trench), the potentiometric surface is shown in Figure 5 (June 11). PGCS piezometer gauging indicated little effect on water levels near the trench and in the surrounding area.

Based on the above analysis, operation of the PGCS clearly draws groundwater toward the trenches.

As shown in Figure 6, the PGCS trench was operated intermittently between June 11 and August 31, 1997. During the periods when the PGCS was not in operation, the influent source to the treatment system was water pumped from the off-site drainage swale to prevent over-topping of the barrier wall and from baker tanks used to collect water from construction dewatering activities. Because the PGCS was not consistently operated, steady-state water levels were not established in the surrounding area. Water level measurements on a monthly basis would not have reflected the true effect of the pumping system due to the intermittent operation of the PGCS. Monthly water level measurements will be collected now that the PGCS trench is operated on a regular schedule.

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METALS
(Water)

Client Name: Montgomery Watson, Inc.
Client ID: EFFLUENT
LAB ID: 125014-0001-2A
Matrix: AQUEOUS
Authorized: 17 MAR 97

Sampled: 13 MAR 97
Prepared: See Below

Received: 17 MAR 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	0.0082	J	1.0	0.010	mg/L	6010A	17 MAR 97	18 MAR 97
Beryllium	0.00030	J	1.0	0.0050	mg/L	6010A	17 MAR 97	18 MAR 97
Cadmium	ND		1.0	0.0020	mg/L	6010A	17 MAR 97	18 MAR 97
Manganese	0.0017	J	1.0	0.015	mg/L	6010A	17 MAR 97	18 MAR 97
Mercury	ND		1.0	0.00020	mg/L	SW7470	19 MAR 97	19 MAR 97
Selenium	ND		1.0	0.0050	mg/L	6010A	17 MAR 97	18 MAR 97
Thallium	ND		1.0	0.010	mg/L	6010A	17 MAR 97	18 MAR 97
Zinc	0.010	JB	1.0	0.020	mg/L	6010A	17 MAR 97	18 MAR 97

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson, Inc.
Client ID: EFFLUENT
LAB ID: 125014-0001-SA
Matrix: AQUEOUS — Sampled: 13 MAR 97 — Received: 17 MAR 97
Authorized: 17 MAR 97 — Prepared: 17 MAR 97 — Analyzed: 17 MAR 97
Instrument: GC/MS-MD — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name:	Montgomery Watson, Inc.		
Client ID:	EFFLUENT		
LAB ID:	125014-0001-SA		
Matrix:	AQUEOUS	Sampled: 13 MAR 97	Received: 17 MAR 97
Authorized:	17 MAR 97	Prepared: 17 MAR 97	Analyzed: 17 MAR 97
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	6.9	J	10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	102	%	80 - 120
Bromofluorobenzene	96	%	80 - 120

Limit is 210

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson, Inc.
Client ID: EFFLUENT
LAB ID: 125014-0001-8A
Matrix: AQUEOUS Sampled: 13 MAR 97 Received: 17 MAR 97
Authorized: 17 MAR 97 Prepared: 17 MAR 97 Analyzed: 18 MAR 97
Instrument: GC/MS-MZ Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson, Inc.
Client ID: EFFLUENT
LAB ID: 125014-0001-SA
Matrix: AQUEOUS Sampled: 13 MAR 97 Received: 17 MAR 97
Authorized: 17 MAR 97 Prepared: 17 MAR 97 Analyzed: 18 MAR 97
Instrument: GC/MS-MM Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	0.76	J	10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson, Inc.
Client ID: EFFLUENT
LAB ID: 125014-0001-SA
Matrix: AQUEOUS Sampled: 13 MAR 97 Received: 17 MAR 97
Authorized: 17 MAR 97 Prepared: 17 MAR 97 Analyzed: 18 MAR 97
Instrument: GC/MS-MB Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	42	%	21 - 100
Phenol-d5	28	%	10 - 94
Nitrobenzene-d5	73	%	34 - 114
2-Fluorobiphenyl	66	%	43 - 116
2,4,6-Tribromophenol	50	%	10 - 123
Terphenyl-d14	50	%	33 - 141

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Category: Phenols
Method: SW-846 8040A
Matrix: Water

Client ID: [redacted]

Sample Date : 03/13/97
Receipt Date : 03/17/97
Report Date : 03/18/97

Quanterra ID : 14020-001

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analysis Date	Result	Unit	Qual.	Detection Limit	Dilution
[redacted]	87-86-5	QCBLK133864-1	03/17/97	03/17/97	[illegible]	UG/L		1.0	1
Fluorophenol	367-12-4	QCBLK133864-1	03/17/97	03/17/97	47	%REC			1
,6-Tribromophenol	118-79-6	QCBLK133864-1	03/17/97	03/17/97	63	%REC			1

To: SRINIVAS

From: Ben

Quanterra Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125399-0001-SA
Matrix: AQUEOUS Sampled: 08 APR 97 Received: 09 APR 97
Authorized: 09 APR 97 Prepared: 09 APR 97 Analyzed: 09 APR 97
Instrument: GC/MS-MC Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	0.42	J	2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125399-0001-SA
Matrix: AQUEOUS Sampled: 08 APR 97 Received: 09 APR 97
Authorized: 09 APR 97 Prepared: 09 APR 97 Analyzed: 09 APR 97
Instrument: GC/MS-MC Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	2.4	J	10	ug/L
2-Butanone	1.8	J	10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	105	%	80 - 120
Toluene-d8	102	%	80 - 120
Bromofluorobenzene	98	%	80 - 120

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125399-0001-SA
Matrix: AQUEOUS | Sampled: 08 APR 97 | Received: 09 APR 97
Authorized: 09 APR 97 | Prepared: 10 APR 97 | Analyzed: 10 APR 97
Instrument: GC/MS-ME | Prep Method: SW3510 | Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125399-0001-SA
Matrix: AQUEOUS — Sampled: 08 APR 97 — Received: 09 APR 97
Authorized: 09 APR 97 — Prepared: 10 APR 97 — Analyzed: 10 APR 97
Instrument: GC/MS-ME — Prep Method: SW3510 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
luoranthene	ND		10	ug/L
yrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
,a-Dimethylphenethyl-amine	ND		50	ug/L
,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

ND = Not Detected

Quanterra Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125399-0001-SA
Matrix: AQUEOUS | Sampled: 08 APR 97 | Received: 09 APR 97
Authorized: 09 APR 97 | Prepared: 10 APR 97 | Analyzed: 10 APR 97
Instrument: GC/MS-ME | Prep Method: SW3510 | Dilution: 1.0

Parameter	Result	Qualifier	RL	Units

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	34	%	21 - 100
Phenol-d5	23	%	10 - 94
Nitrobenzene-d5	56	%	34 - 114
2-Fluorobiphenyl	56	%	43 - 116
2,4,6-Tribromophenol	66	%	10 - 123
Terphenyl-d14	61	%	33 - 141

Quanterra
Environmental Services

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125399-0001-SA
Matrix: AQUEOUS Sampled: 08 APR 97 Received: 09 APR 97
Authorized: 09 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	TOTREC	6010A	09 APR 97	10 APR 97
Beryllium	0.00049	J	1.0	0.0050	mg/L	TOTREC	6010A	09 APR 97	10 APR 97
Cadmium	ND		1.0	0.0020	mg/L	TOTREC	6010A	09 APR 97	10 APR 97
Manganese	0.071		1.0	0.015	mg/L	TOTREC	6010A	09 APR 97	10 APR 97
Mercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	10 APR 97	10 APR 97
Selenium	ND		1.0	0.0050	mg/L	TOTREC	6010A	09 APR 97	10 APR 97
Thallium	0.0054	JB	1.0	0.010	mg/L	TOTREC	6010A	09 APR 97	10 APR 97
Zinc	0.0081	J	1.0	0.020	mg/L	TOTREC	6010A	09 APR 97	10 APR 97

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125399-0001-SA
Matrix: AQUEOUS
Authorized: 09 APR 97

Sampled: 08 APR 97
Prepared: See Below

Received: 09 APR 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	8.6		1.0	NA	units	150.1	NA	09 APR 97
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	10 APR 97

ND = Not Detected

E.S. BABCOCK & SONS, INC.
ESTABLISHED 1906

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana,CA 92705

Client I.D.: 125399
Site: MW/ACS
Description: Effluent

Matrix: wastewater

Lab No.: L28160-001

Date Reported: 04/15/97

Collected By: L.Reed
Date: 04/08/97
Time: 1400
Submitted By: AirEx
Date: 04/10/97
Time: 0925

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	ND	mg/L	EPA 405.1	5.	970410/JKB

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.

Industrial & Environmental Analysts, Inc. (IEA)
PCB IN WATER

IEA Project Number:	2240-037	Date Received:	04/09/97
IEA Sample Number:	9704184-01	Date Sampled:	04/08/97
Client Name:	Montgomery Watson	Date Extracted:	04/09/97
Client Project I.D.:	ACS-#23	Date Analyzed:	04/10/97
Sample Identification:	EFFLUENT	Analysis By:	Briggs
Matrix:	Water	Dilution Factor:	1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.10	BQL
2	Aroclor 1221	0.10	BQL
3	Aroclor 1232	0.10	BQL
4	Aroclor 1242	0.10	BQL
5	Aroclor 1248	0.10	BQL
6	Aroclor 1254	0.10	BQL
7	Aroclor 1260	0.10	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM PCBW Rev. 030293

Quanterra
Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125414-0001-SA
Matrix: AQUEOUS Sampled: 09 APR 97 Received: 10 APR 97
Authorized: 10 APR 97 Prepared: 10 APR 97 Analyzed: 10 APR 97
Instrument: GC/MS-MC Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	0.10	J	1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125414-0001-SA
Matrix: AQUEOUS Sampled: 09 APR 97 Received: 10 APR 97
Authorized: 10 APR 97 Prepared: 10 APR 97 Analyzed: 10 APR 97
Instrument: GC/MS-MC Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	101	%	80 - 120
Toluene-d8	96	%	80 - 120
Bromofluorobenzene	96	%	80 - 120

ND = Not Detected

Quanterra Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125414-0001-SA
Matrix: AQUEOUS — Sampled: 09 APR 97 — Received: 10 APR 97
Authorized: 10 APR 97 — Prepared: 11 APR 97 — Analyzed: 14 APR 97
Instrument: GC/MS-MA — Prep Method: SW3510 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125414-0001-SA
Matrix: AQUEOUS Sampled: 09 APR 97 Received: 10 APR 97
Authorized: 10 APR 97 Prepared: 11 APR 97 Analyzed: 14 APR 97
Instrument: GC/MS-MA Prep Method: SW3510 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
α,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125414-0001-SA
Matrix: AQUEOUS — Sampled: 09 APR 97 — Received: 10 APR 97
Authorized: 10 APR 97 — Prepared: 11 APR 97 — Analyzed: 14 APR 97
Instrument: GC/MS-MA — Prep Method: SW3510 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Surrogate	**Recovery**		**Acceptable Range**	
2-Fluorophenol	35		21 - 100	%
Phenol-d5	23		10 - 94	%
Nitrobenzene-d5	57		34 - 114	%
2-Fluorobiphenyl	61		43 - 116	%
2,4,6-Tribromophenol	57		10 - 123	%
Terphenyl-d14	65		33 - 141	%

Quanterra Environmental Services

METALS
(Water)

lient Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
AB ID: 125414-0001-SA
atrix: AQUEOUS Sampled: 09 APR 97 Received: 10 APR 97
uthorized: 10 APR 97 Prepared: See Below Analyzed: See Below

arameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	0.0033	J	1.0	0.010	mg/L	TOTREC	6010A	10 APR 97	10 APR 97
eryllium	0.00065	JB	1.0	0.0050	mg/L	TOTREC	6010A	10 APR 97	10 APR 97
admium	ND		1.0	0.0020	mg/L	TOTREC	6010A	10 APR 97	10 APR 97
Manganese	0.039		1.0	0.015	mg/L	TOTREC	6010A	10 APR 97	10 APR 97
ercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	14 APR 97	14 APR 97
elenium	ND		1.0	0.0050	mg/L	TOTREC	6010A	10 APR 97	10 APR 97
nallium	0.0064	JB	1.0	0.010	mg/L	TOTREC	6010A	10 APR 97	10 APR 97
Zinc	0.015	J	1.0	0.020	mg/L	TOTREC	6010A	10 APR 97	10 APR 97

B = Compound is also detected in the blank.
= Result is detected below the reporting limit or is an estimated concentration.
) = Not Detected

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125414-0001-SA
Matrix: AQUEOUS
Authorized: 10 APR 97

GENERAL INORGANICS

Quanterra Environmental Services

Sampled: 09 APR 97
Prepared: See Below

Received: 10 APR
Analyzed: See Bel

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyz Date
pH	8.2		1.0	NA	units	150.1	NA	10 APR
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	10 APR

ND = Not Detected

E.S. BABCOCK
& SONS, INC.
ESTABLISHED 1906

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940

Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana,CA 92705

Client I.D.: 125414
Site: MW/ACS#23
Description: Effluent

Matrix: wastewater

Page: 1 of 1
Lab No.: L28190-001

Date Reported: 04/16/97

Collected By: L.Reed
Date: 04/09/97
Time: 1415
Submitted By: Edmund
Date: 04/10/97
Time: 1615

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	5.	mg/L	EPA 405.1	5.	970411/KOS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.

Industrial & Environmental Analysts, Inc. (IEA)
GC SEMIVOLATILE SW-846 METHOD 8081 PCB in WATER

IEA Project Number:	2240-038	Date Received:	04/10/97
IEA Sample Number:	9704216-01	Date Sampled:	04/09/97
Client Name:	Montgomery Watson	Date Extracted:	04/11/97
Client Project ID:	ACS-#23	Date Analyzed:	04/14/97
Sample Identification:	Effluent	Analysis By:	Briggs
Associated QC Blank:	PB421	Dilution Factor:	1.0
QC Batch ID#:	421	Matrix:	Water

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.10	BQL
2	Aroclor 1221	0.10	BQL
3	Aroclor 1232	0.10	BQL
4	Aroclor 1242	0.10	BQL
5	Aroclor 1248	0.10	BQL
6	Aroclor 1254	0.10	BQL
7	Aroclor 1260	0.10	BQL

Surrogate Compounds:	Acceptance Criteria	% Recovery
Tetrachloro-m-xylene	60 - 150	52 *
Decachlorobiphenyl	60 - 150	98

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

FORM RPCBW Rev. 082296

Quanterra
Environmental Services

Penta & Tetrachlorophenol

Method QUANTERRA

Client Name: Montgomery Watson Constructors
Client ID: Effluent
Lab ID: 092642-0001-SA
Matrix: AQUEOUS Sampled: 09 APR 97 Received: 10 APR 97
Authorized: 10 APR 97 Prepared: 11 APR 97 Analyzed: 11 APR 97

Parameter	Result	Units	Reporting Limit
Pentachlorophenol	ND	ug/L	0.50
Surrogate	Recovery		
2,4,6-Tribromophenol	71	%	

ND = Not detected
NA = Not applicable

Reported By: Jon Edmondson Approved By: Kirby Garrett

The cover letter is an integral part of this report.
Rev 230787

Industrial & Environmental Analysts, Inc. (IEA)
GC SEMIVOLATILE SW-846 METHOD 8081 PCB in WATER

IEA Project Number:	2240-039	Date Received:	04/11/97
IEA Sample Number:	9704242-01	Date Sampled:	04/10/97
Client Name:	Montgomery Watson	Date Extracted:	04/11/97
Client Project ID:	ACS-#23	Date Analyzed:	04/14/97
Sample Identification:	Effluent	Analysis By:	Briggs
Associated QC Blank:	PB421	Dilution Factor:	1.0
QC Batch ID#:	421	Matrix:	Water

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.10	BQL
2	Aroclor 1221	0.10	BQL
3	Aroclor 1232	0.10	BQL
4	Aroclor 1242	0.10	BQL
5	Aroclor 1248	0.10	BQL
6	Aroclor 1254	0.10	BQL
7	Aroclor 1260	0.10	BQL

Surrogate Compounds:	Acceptance Criteria	% Recovery
Tetrachloro-m-xylene	60 - 150	58 *
Decachlorobiphenyl	60 - 150	98

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

FORM RPCBW Rev. 082296

Quanterra
Environmental Services

Penta & Tetrachlorophenol

Method QUANTERRA

Client Name: Montgomery Watson Constructors
Client ID: Effluent
Lab ID: 092666-0001-SA
Matrix: AQUEOUS Sampled: 10 APR 97 Received: 11 APR 97
Authorized: 11 APR 97 Prepared: 11 APR 97 Analyzed: 11 APR 97

Parameter	Result	Units	Reporting Limit
Pentachlorophenol	ND	ug/L	0.50
Surrogate	Recovery		
2,4,6-Tribromophenol	74	%	

ND = Not detected
NA = Not applicable

Reported By: Jon Edmondson Approved By: Kirby Garrett

The cover letter is an integral part of this report.
Rev 230787

Quanterra
Environmental Services

Penta & Tetrachlorophenol
Method QUANTERRA

Client Name: Montgomery Watson Constructors
Client ID: Effluent
LAB ID: 092760-0001-SA
Matrix: AQUEOUS Sampled: 17 APR 97 Received: 18 APR 97
Authorized: 18 APR 97 Prepared: 21 APR 97 Analyzed: 22 APR 97

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Pentachlorophenol	ND	ug/L	0.50	

Surrogate	Recovery	Acceptable Range
2,4,6-Tribromophenol	81 %	-

ND = Not Detected

Reported By: Jon Edmondson Approved By: Lisa Stafford

The cover letter is an integral part of this report.
Rev 230787

E.S. BABCOCK
& SONS, INC.
ESTABLISHED 1906

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana,CA 92705

Client I.D.: 125563 EFFLUENT 4/17/97
Site: MW/ACS #23
Description:

Matrix: wastewater

Page: 1 of 1
Lab No.: L28452-001

Date Reported: 04/24/97

Collected By:
Date: 04/17/97
Time: 1345
Submitted By: Courier
Date: 04/18/97
Time: 1305

Constituent	Result		Method	RL	Date Analyst
Biochemical Oxygen Demand	ND	mg/L	EPA 405.1	5.	970418/TF

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc

Quanterra Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/17/97
LAB ID: 125563-0001-SA
Matrix: AQUEOUS Sampled: 17 APR 97 Received: 18 APR 97
Authorized: 18 APR 97 Prepared: 19 APR 97 Analyzed: 19 APR 97
Instrument: GC/MS-MC Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	0.55	J	2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/17/97
LAB ID: 125563-0001-SA
Matrix: AQUEOUS Sampled: 17 APR 97 Received: 18 APR 97
Authorized: 18 APR 97 Prepared: 19 APR 97 Analyzed: 19 APR 97
Instrument: GC/MS-MC Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	4.4	J	10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	98	%	80 - 120
Bromofluorobenzene	93	%	80 - 120

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/17/97
LAB ID: 125563-0001-SA
Matrix: AQUEOUS Sampled: 17 APR 97 Received: 18 APR 97
Authorized: 18 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
pH	7.9		1.0	NA	units	NONE	150.1	NA	18 APR 97
Total Suspended Solids	ND		1.0	10.0	mg/L	NONE	E160.2	NA	18 APR 97

ND = Not Detected

Quanterra Environmental Services

METALS
(Water)

ıent Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/17/97
LAB ID: 125563-0001-SA
Matrix: AQUEOUS Sampled: 17 APR 97 Received: 18 APR 97
Authorized: 18 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	0.0034	J	1.0	0.010	mg/L	TOTREC	6010A	18 APR 97	22 APR 97
Beryllium	ND		1.0	0.0050	mg/L	TOTREC	6010A	18 APR 97	22 APR 97
Cadmium	ND		1.0	0.0020	mg/L	TOTREC	6010A	18 APR 97	22 APR 97
Manganese	0.21		1.0	0.015	mg/L	TOTREC	6010A	18 APR 97	22 APR 97
Mercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	18 APR 97	21 APR 97
Selenium	ND		1.0	0.0050	mg/L	TOTREC	6010A	18 APR 97	22 APR 97
Thallium	0.0091	JB	1.0	0.010	mg/L	TOTREC	6010A	18 APR 97	22 APR 97
Zinc	ND		1.0	0.020	mg/L	TOTREC	6010A	18 APR 97	22 APR 97

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/17/97
LAB ID: 125563-0001-SA
Matrix: AQUEOUS Sampled: 17 APR 97 Received: 18 APR 97
Authorized: 18 APR 97 Prepared: 21 APR 97 Analyzed: 22 APR 97
Instrument: GC/MS-MI Prep Method: SW3510 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Quanterra Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/17/97
LAB ID: 125563-0001-SA
Matrix: AQUEOUS — Sampled: 17 APR 97 — Received: 18 APR 97
Authorized: 18 APR 97 — Prepared: 21 APR 97 — Analyzed: 22 APR 97
Instrument: GC/MS-MI — Prep Method: SW3510 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Flucrene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/17/97
LAB ID: 125563-0001-SA
Matrix: AQUEOUS Sampled: 17 APR 97 Received: 18 APR 97
Authorized: 18 APR 97 Prepared: 21 APR 97 Analyzed: 22 APR 97
Instrument: GC/MS-MI Prep Method: SW3510 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	34	%	21 - 100
Phenol-d5	23	%	10 - 94
Nitrobenzene-d5	61	%	34 - 114
2-Fluorobiphenyl	68	%	43 - 116
2,4,6-Tribromophenol	58	%	10 - 123
Terphenyl-d14	64	%	33 - 141

Industrial & Environmental Analysts, Inc. (IEA)
GC SEMIVOLATILE SW-846 METHOD 8081 PCB in WATER

IEA Project Number:	2240-040	Date Received:	04/18/97
IEA Sample Number:	9704377-01	Date Sampled:	04/17/97
Client Name:	Montgomery Watson	Date Extracted:	04/21/97
Client Project ID:	ACS-#23	Date Analyzed:	04/21/97
Sample Identification:	Effluent 04/17/97	Analysis By:	Briggs
Associated QC Blank:	PB428	Dilution Factor:	1.0
QC Batch ID#:	428	Matrix:	Water

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.10	BQL
2	Aroclor 1221	0.10	BQL
3	Aroclor 1232	0.10	BQL
4	Aroclor 1242	0.10	BQL
5	Aroclor 1248	0.10	BQL
6	Aroclor 1254	0.10	BQL
7	Aroclor 1260	0.10	BQL

Surrogate Compounds:	Acceptance Criteria	% Recovery
Tetrachloro-m-xylene	60 - 150	68
Decachlorobiphenyl	60 - 150	92

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

FORM RPCSW Rev. 082296

Industrial & Environmental Analysts, Inc. (IEA)
GC SEMIVOLATILE SW-846 METHOD 8081 PCB in WATER

IEA Project Number:	2240-041	Date Received:	04/22/97
IEA Sample Number:	9704457-01	Date Sampled:	04/21/97
Client Name:	Montgomery Watson	Date Extracted:	04/23/97
Client Project ID:	ACS-#23	Date Analyzed:	04/23/97
Sample Identification:	Effluent	Analysis By:	Briggs
Associated QC Blank:	PB432	Dilution Factor:	1.0
QC Batch ID#:	432	Matrix:	Water

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.10	BQL
2	Aroclor 1221	0.10	BQL
3	Aroclor 1232	0.10	BQL
4	Aroclor 1242	0.10	BQL
5	Aroclor 1248	0.10	BQL
6	Aroclor 1254	0.10	BQL
7	Aroclor 1260	0.10	BQL

Surrogate Compounds:	Acceptance Criteria	% Recovery
Tetrachloro-m-xylene	60 - 150	85
Decachlorobiphenyl	60 - 150	105

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

FORM RPCBW Rev. 082296

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125601-0001-SA
Matrix: AQUEOUS Sampled: 21 APR 97 Received: 22 APR 97
Authorized: 22 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
pH	7.5		1.0	NA	units	NONE	150.1	NA	22 APR 97
Total Suspended Solids	ND		1.0	10.0	mg/L	NONE	E160.2	NA	22 APR 97

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125601-0001-SA
Matrix: AQUEOUS Sampled: 21 APR 97 Received: 22 APR 97
Authorized: 22 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	TOTREC	6010A	22 APR 97	24 APR 97
Beryllium	ND		1.0	0.0050	mg/L	TOTREC	6010A	22 APR 97	24 APR 97
Cadmium	ND		1.0	0.0020	mg/L	TOTREC	6010A	22 APR 97	24 APR 97
Manganese	0.22		1.0	0.015	mg/L	TOTREC	6010A	22 APR 97	24 APR 97
Mercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	23 APR 97	24 APR 97
Selenium	ND		1.0	0.0050	mg/L	TOTREC	6010A	22 APR 97	24 APR 97
Thallium	0.0075	JB	1.0	0.010	mg/L	TOTREC	6010A	22 APR 97	24 APR 97
Zinc	0.0092	J	1.0	0.020	mg/L	TOTREC	6010A	22 APR 97	24 APR 97

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125601-0001-SA
Matrix: AQUEOUS Sampled: 21 APR 97 Received: 22 APR 97
Authorized: 22 APR 97 Prepared: 26 APR 97 Analyzed: 26 APR 97
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	0.11	J	2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	0.49	J	2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds (cont.)
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125601-0001-SA
Matrix: AQUEOUS Sampled: 21 APR 97 Received: 22 APR 97
Authorized: 22 APR 97 Prepared: 26 APR 97 Analyzed: 26 APR 97
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	15		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	97	%	80 - 120
Bromofluorobenzene	88	%	80 - 120

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125601-0001-SA
Matrix: AQUEOUS — Sampled: 21 APR 97 — Received: 22 APR 97
Authorized: 22 APR 97 — Prepared: 23 APR 97 — Analyzed: 24 APR 97
Instrument: GC/MS-MI — Prep Method: SW3510 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125601-0001-SA
Matrix: AQUEOUS Sampled: 21 APR 97 Received: 22 APR 97
Authorized: 22 APR 97 Prepared: 23 APR 97 Analyzed: 24 APR 97
Instrument: GC/MS-MI Prep Method: SW3510 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT
LAB ID: 125601-0001-SA
Matrix: AQUEOUS Sampled: 21 APR 97 Received: 22 APR 97
Authorized: 22 APR 97 Prepared: 23 APR 97 Analyzed: 24 APR 97
Instrument: GC/MS-MI Prep Method: SW3510 Dilution: 1.0

Parameter	Result	Qualifier	PL	Units

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	42	%	21 - 100
Phenol-d5	29	%	10 - 94
Nitrobenzene-d5	73	%	34 - 114
2-Fluorobiphenyl	75	%	43 - 116
2,4,6-Tribromophenol	67	%	10 - 123
Terphenyl-d14	55	%	33 - 141

E.S. BABCOCK & SONS, INC.
ESTABLISHED 1906

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana, CA 92705

Client I.D.: 125601-001
Site: MW/AVCS#23
Description: Effluent

Matrix: wastewater

Lab No.: L28524-001

Date Reported: 04/29/97

Collected By:
Date: 04/21/97
Time: 1525
Submitted By: Courier
Date: 04/22/97
Time: 1245

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	6.	mg/L	EPA 405.1	5.	970423/KC

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc

Quanterra
Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/22/97
LAB ID: 125628-0001-SA
Matrix: AQUEOUS — Sampled: 22 APR 97 — Received: 23 APR 97
Authorized: 23 APR 97 — Prepared: 23 APR 97 — Analyzed: 23 APR 97
Instrument: GC/MS-MC — Prep Method: SW5030 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	0.16	J	1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	0.13	J	1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/22/97
LAB ID: 125628-0001-SA
Matrix: AQUEOUS — Sampled: 22 APR 97 — Received: 23 APR 97
Authorized: 23 APR 97 — Prepared: 23 APR 97 — Analyzed: 23 APR 97
Instrument: GC/MS-MC — Prep Method: SW5030 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	2.1	J	10	ug/L
2-Butanone	2.6	J	10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	100	%	80 - 120
Toluene-d8	100	%	80 - 120
Bromofluorobenzene	95	%	80 - 120

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 4/22/97		
LAB ID:	125628-0001-SA		
Matrix:	AQUEOUS	Sampled: 22 APR 97	Received: 23 APR 97
Authorized:	23 APR 97	Prepared: 24 APR 97	Analyzed: 24 APR 97
Instrument:	GC/MS-MI	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/22/97
LAB ID: 125628-0001-SA
Matrix: AQUEOUS Sampled: 22 APR 97 Received: 23 APR 97
Authorized: 23 APR 97 Prepared: 24 APR 97 Analyzed: 24 APR 97
Instrument: GC/MS-MI Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 4/22/97		
LAB ID:	125628-0001-SA		
Matrix:	AQUEOUS	Sampled: 22 APR 97	Received: 23 APR 97
Authorized:	23 APR 97	Prepared: 24 APR 97	Analyzed: 24 APR 97
Instrument:	GC/MS-MI	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	36	%	21 - 100
Phenol-d5	25	%	10 - 94
Nitrobenzene-d5	63	%	34 - 114
2-Fluorobiphenyl	66	%	43 - 116
2,4,6-Tribromophenol	60	%	10 - 123
Terphenyl-d14	48	%	33 - 141

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/22/97
LAB ID: 125628-0001-SA
Matrix: AQUEOUS Sampled: 22 APR 97 Received: 23 APR 97
Authorized: 23 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	TOTREC	6010A	23 APR 97	25 APR 97
Beryllium	ND		1.0	0.0050	mg/L	TOTREC	6010A	23 APR 97	25 APR 97
Cadmium	ND		1.0	0.0020	mg/L	TOTREC	6010A	23 APR 97	25 APR 97
Manganese	0.038		1.0	0.015	mg/L	TOTREC	6010A	23 APR 97	25 APR 97
Mercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	24 APR 97	25 APR 97
Selenium	ND		1.0	0.0050	mg/L	TOTREC	6010A	23 APR 97	25 APR 97
Thallium	ND		1.0	0.010	mg/L	TOTREC	6010A	23 APR 97	25 APR 97
Zinc	ND		1.0	0.020	mg/L	TOTREC	6010A	23 APR 97	25 APR 97

ND = Not Detected

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/22/97
LAB ID: 125628-0001-SA
Matrix: AQUEOUS Sampled: 22 APR 97 Received: 23 APR 97
Authorized: 23 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
pH	7.5		1.0	NA	units	NONE	150.1	NA	23 APR 97
Total Suspended Solids	ND		1.0	10.0	mg/L	NONE	E160.2	NA	24 APR 97

ND = Not Detected

Quanterra Environmental Services

Penta & Tetrachlorophenol
Method QUANTERRA

Client Name: Montgomery Watson Constructors
Client ID: Effluent 4/22/97
LAB ID: 092828-0002-SA
Matrix: AQUEOUS Sampled: 22 APR 97 Received: 23 APR 97
Authorized: 23 APR 97 Prepared: 25 APR 97 Analyzed: 28 APR 97

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Pentachlorophenol	ND	ug/L	0.50	

Surrogate	Recovery	Acceptable Range
2,4,6-Tribromophenol	71 %	-

ND = Not Detected

Reported By: Jon Edmondson Approved By: Emily Uebelhoer

The cover letter is an integral part of this report.
Rev 230787

Industrial & Environmental Analysts, Inc. (IEA)
GC SEMIVOLATILE SW-846 METHOD 8081 PCB in WATER

IEA Project Number:	2240-042	Date Received:	04/23/97
IEA Sample Number:	9704476-01	Date Sampled:	04/22/97
Client Name:	Montgomery Watson	Date Extracted:	04/23/97
Client Project ID:	ACS-#23	Date Analyzed:	04/24/97
Sample Identification:	Effluent 4/22/97	Analysis By:	Briggs
Associated QC Blank:	PB432	Dilution Factor:	1.0
QC Batch ID#:	432	Matrix:	Water

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.10	BQL
2	Aroclor 1221	0.10	BQL
3	Aroclor 1232	0.10	BQL
4	Aroclor 1242	0.10	BQL
5	Aroclor 1248	0.10	BQL
6	Aroclor 1254	0.10	BQL
7	Aroclor 1260	0.10	BQL

Surrogate Compounds:	Acceptance Criteria	% Recovery
Tetrachloro-m-xylene	60 - 150	82
Decachlorobiphenyl	60 - 150	95

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

FORM RPCBW Rev. 082295

E.S. BABCOCK
& SONS, INC.
ESTABLISHED 1904

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana,CA 92705

Client I.D.: 125628-01
Site: MW/ACS#23
Description: Effluent 4/22/97

Matrix: wastewater

Page: 1 of 1
Lab No.: L28571-001

Date Reported: 04/30/97

Collected By:
Date: 04/22/97
Time: 1520
Submitted By: Courier
Date: 04/23/97
Time: 1245

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	ND	mg/L	EPA 405.1	5.	970424/TF

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/24/97
LAB ID: 125676-0001-SA
Matrix: AQUEOUS Sampled: 24 APR 97 Received: 25 APR 97
Authorized: 25 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
pH	7.3		1.0	NA	units	NONE	150.1	NA	25 APR 97
Total Suspended Solids	ND		1.0	10.0	mg/L	NONE	E160.2	NA	29 APR 97

ND = Not Detected

Industrial & Environmental Analysts, Inc. (IEA)
GC SEMIVOLATILE SW-846 METHOD 8081 PCB in WATER

IEA Project Number:	2240-048	Date Received:	04/25/97
IEA Sample Number:	9704556-01	Date Sampled:	04/24/97
Client Name:	Mongomery Watson	Date Extracted:	04/28/97
Client Project ID:	ACS-#23	Date Analyzed:	04/30/97
Sample Identification:	EFFLUENT 4/24/97	Analysis By:	Briggs
Associated QC Blank:	PB436	Dilution Factor:	1.0
QC Batch ID#:	436	Matrix:	Water
		Time of Analysis:	1107

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.10	BQL
2	Aroclor 1221	0.10	BQL
3	Aroclor 1232	0.10	BQL
4	Aroclor 1242	0.10	BQL
5	Aroclor 1248	0.10	BQL
6	Aroclor 1254	0.10	BQL
7	Aroclor 1260	0.10	BQL

Surrogate Compounds:	Acceptance Criteria	% Recovery
Tetrachloro-m-xylene	60 - 150	82
Decachlorobiphenyl	60 - 150	100

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

FORM RPCBW Rev. 082296

Quanterra
Environmental Services

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/24/97
LAB ID: 125676-0001-SA
Matrix: AQUEOUS Sampled: 24 APR 97 Received: 25 APR 97
Authorized: 25 APR 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	TOTREC	6010A	28 APR 97	29 APR 97
Beryllium	ND		1.0	0.0050	mg/L	TOTREC	6010A	28 APR 97	29 APR 97
Cadmium	ND		1.0	0.0020	mg/L	TOTREC	6010A	28 APR 97	29 APR 97
Manganese	0.13		1.0	0.015	mg/L	TOTREC	6010A	28 APR 97	29 APR 97
Mercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	28 APR 97	28 APR 97
Selenium	ND		1.0	0.0050	mg/L	TOTREC	6010A	28 APR 97	29 APR 97
Thallium	ND		1.0	0.010	mg/L	TOTREC	6010A	28 APR 97	29 APR 97
Zinc	ND		1.0	0.020	mg/L	TOTREC	6010A	28 APR 97	29 APR 97

ND = Not Detected

Industrial & Environmental Analysts, Inc. (IEA)
GC SEMIVOLATILE SW-846 METHOD 8080 PCB in WATER

IEA Project Number:	2240-048	Date Received:	04/25/97
IEA Sample Number:	9704556-01	Date Sampled:	04/24/97
Client Name:	Mongomery Watson	Date Extracted:	04/28/97
Client Project ID:	ACS-#23	Date Analyzed:	04/30/97
Sample Identification:	EFFLUENT 4/24/97	Analysis By:	Briggs
Associated QC Blank:	PB436	Dilution Factor:	1.0
QC Batch ID#:	436	Matrix:	Water
		Time of Analysis:	1107

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.10	BQL
2	Aroclor 1221	0.10	BQL
3	Aroclor 1232	0.10	BQL
4	Aroclor 1242	0.10	BQL
5	Aroclor 1248	0.10	BQL
6	Aroclor 1254	0.10	BQL
7	Aroclor 1260	0.10	BQL

Surrogate Compounds:	Acceptance Criteria	% Recovery
Tetrachloro-m-xylene	60 - 150	82
Decachlorobiphenyl	60 - 150	100

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

FORM RPCBW Rev. 082296

E.S. BABCOCK
& SONS, INC.
ESTABLISHED 1906

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana,CA 92705

Client I.D.: 125676-01
Site: MW/ACS#23
Description: Effluent 04/24/97

Matrix: grndwater

Page: 1 of 1
Lab No.: L28686-001

Date Reported: 05/01/97

Collected By:
Date: 04/24/97
Time: 1545
Submitted By: Courier
Date: 04/25/97
Time: 1435

Constituent	Result		Method	RL	Date Analyst
Biochemical Oxygen Demand	ND	mg/L	EPA 405.1	5.	970401/TF

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc

Quanterra
Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/24/97
LAB ID: 125676-0001-SA
Matrix: AQUEOUS Sampled: 24 APR 97 Received: 25 APR 97
Authorized: 25 APR 97 Prepared: 26 APR 97 Analyzed: 26 APR 97
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	0.19	J	1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	g/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds (cont.)
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/24/97
LAB ID: 125676-0001-SA
Matrix: AQUEOUS Sampled: 24 APR 97 Received: 25 APR 97
Authorized: 25 APR 97 Prepared: 26 APR 97 Analyzed: 26 APR 97
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	92	%	80 - 120
Bromofluorobenzene	86	%	80 - 120

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/24/97
LAB ID: 125676-0001-SA
Matrix: AQUEOUS Sampled: 24 APR 97 Received: 25 APR 97
Authorized: 25 APR 97 Prepared: 25 APR 97 Analyzed: 28 APR 97
Instrument: GC/MS-MI Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/24/97
LAB ID: 125676-0001-SA
Matrix: AQUEOUS Sampled: 24 APR 97 Received: 25 APR 97
Authorized: 25 APR 97 Prepared: 25 APR 97 Analyzed: 28 APR 97
Instrument: GC/MS-MI Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	0.61	J	10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 4/24/97
LAB ID: 125676-0001-SA
Matrix: AQUEOUS Sampled: 24 APR 97 Received: 25 APR 97
Authorized: 25 APR 97 Prepared: 25 APR 97 Analyzed: 28 APR 97
Instrument: GC/MS-MI Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	42	%	21 - 100
Phenol-d5	29	%	10 - 94
Nitrobenzene-d5	71	%	34 - 114
2-Fluorobiphenyl	71	%	43 - 116
2,4,6-Tribromophenol	64	%	10 - 123
Terphenyl-d14	60	%	33 - 141

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/21/97
LAB ID: 126058-0001-SA
Matrix: AQUEOUS Sampled: 21 MAY 97 Received: 22 MAY 97
Authorized: 22 MAY 97 Prepared: 23 MAY 97 Analyzed: 23 MAY 97
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	3.7		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	0.61	J	2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	0.15	J	5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/21/97
LAB ID: 126058-0001-SA
Matrix: AQUEOUS Sampled: 21 MAY 97 Received: 22 MAY 97
Authorized: 22 MAY 97 Prepared: 23 MAY 97 Analyzed: 23 MAY 97
Instrument: GC/MS-MC Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	2.7	J	10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	100	%	80 - 120
Toluene-d8	100	%	80 - 120
Bromofluorobenzene	107	%	80 - 120

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/21/97
LAB ID: 126058-0001-SA
Matrix: AQUEOUS Sampled: 21 MAY 97 Received: 22 MAY 97
Authorized: 22 MAY 97 Prepared: 22 MAY 97 Analyzed: 03 JUN 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/21/97
LAB ID: 126058-0001-SA
Matrix: AQUEOUS Sampled: 21 MAY 97 Received: 22 MAY 97
Authorized: 22 MAY 97 Prepared: 22 MAY 97 Analyzed: 03 JUN 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Flucrene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L

ND = Not Detected

Quanterra Environmental Services (cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 5/21/97		
LAB ID:	126058-0001-SA		
Matrix:	AQUEOUS	Sampled: 21 MAY 97	Received: 22 MAY 97
Authorized:	22 MAY 97	Prepared: 22 MAY 97	Analyzed: 03 JUN 97
Instrument:	GC/MS-MA	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	44	%	21 - 100
Phenol-d5	26	%	10 - 94
Nitrobenzene-d5	76	%	34 - 114
2-Fluorobiphenyl	73	%	43 - 116
2,4,6-Tribromophenol	58	%	10 - 123
Terphenyl-d14	72	%	33 - 141

ND = Not Detected

Quanterra Environmental Services

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/21/97
LAB ID: 126058-0001-SA
Matrix: AQUEOUS Sampled: 21 MAY 97 Received: 22 MAY 97
Authorized: 22 MAY 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	6010A	23 MAY 97	28 MAY
Beryllium	0.00067	J	1.0	0.0050	mg/L	6010A	23 MAY 97	28 MAY
Cadmium	ND		1.0	0.0020	mg/L	6010A	23 MAY 97	28 MAY
Manganese	0.058		1.0	0.015	mg/L	6010A	23 MAY 97	28 MAY
Mercury	ND		1.0	0.00020	mg/L	SW7470	27 MAY 97	27 MAY
Selenium	ND		1.0	0.0050	mg/L	6010A	23 MAY 97	28 MAY
Thallium	0.0041	JB	1.0	0.010	mg/L	6010A	23 MAY 97	28 MAY
Zinc	0.010	J	1.0	0.020	mg/L	6010A	23 MAY 97	28 MAY

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/21/97
LAB ID: 126058-0001-SA
Matrix: AQUEOUS — Sampled: 21 MAY 97 — Received: 22 MAY 97
Authorized: 22 MAY 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	7.8		1.0	NA	units	150.1	NA	22 MAY
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	27 MAY

ND = Not Detected

E.S. BABCOCK & SONS, INC.
ESTABLISHED 1906

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana, CA 92705

Client I.D.: 126058-0001
Site: MW/ACS #3
Description: Effluent

Matrix: grndwater

Lab No.: L29513-001

Date Reported: 05/29/97

Collected By:
Date: 05/21/97
Time: 1315
Submitted By: Courier
Date: 05/22/97
Time: 1320

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	5.	mg/L	EPA 405.1	5.	970523/KC

ND = None detected at RL (Reporting Limit). RL units same as result.

Temp. Blank = 3C upon receipt.

cc:

E. S. Babcock & Sons Inc

Laurie J. Chapter

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 5-21-97		
LAB ID:	126106-0001-SA		
Matrix:	AQUEOUS	Sampled: 21 MAY 97	Received: 24 MAY 97
Authorized:	24 MAY 97	Prepared: 28 MAY 97	Analyzed: 30 MAY 97
Instrument:	GC/MS-MA	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

ND = Not Detected

Industrial & Environmental Analysts, Inc. (IEA)
PESTICIDES / PCBs EPA 608 COMPOUND LIST

IEA Project Number:	2240-049	Date Received:	05/22/97
IEA Sample Number:	9705432-01	Date Sampled:	05/21/97
Client Name:	Mongomery Watson	Date Extracted:	05/23/97
Client Project ID:	ACS-#23	Date Analyzed:	05/30/97
Sample Identification:	EFFLUENT 5/21/97	Analysis By:	Briggs
Matrix:	Water	Dilution Factor:	1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.50	BQL
2	Aroclor 1221	0.50	BQL
3	Aroclor 1232	0.50	BQL
4	Aroclor 1242	0.50	BQL
5	Aroclor 1248	0.50	BQL
6	Aroclor 1254	1.0	BQL
7	Aroclor 1260	1.0	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 608 REV. 030293

E.S. BABCOCK & SONS, INC.

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana,CA 92705

Client I.D.: 126058-0001
Site: MW/ACS #3
Description: Effluent

Matrix: grndwater

Page: 1 of 1
Lab No.: L29513-001

Date Reported: 05/29/97

Collected By:
Date: 05/21/97
Time: 1315
Submitted By: Courier
Date: 05/22/97
Time: 1320

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	5.	mg/L	EPA 405.1	5.	970523/KOS

ND = None detected at RL (Reporting Limit). RL units same as result.

Temp. Blank = 3C upon receipt.

cc:

E. S. Babcock & Sons Inc.

Lawrence J. Chastel

Quanterra Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/29/97
LAB ID: 126172-0001-SA
Matrix: AQUEOUS Sampled: 29 MAY 97 Received: 30 MAY 97
Authorized: 30 MAY 97 Prepared: 03 JUN 97 Analyzed: 03 JUN 97
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	Units
Benzene	ND		10	ug/L
Bromobenzene	ND		10	ug/L
Bromochloromethane	ND		10	ug/L
Bromodichloromethane	ND		10	ug/L
Bromoform	ND		10	ug/L
Bromomethane	ND		20	ug/L
n-Butylbenzene	ND		10	ug/L
sec-Butylbenzene	ND		10	ug/L
Carbon tetrachloride	ND		10	ug/L
Chlorobenzene	ND		10	ug/L
Chloroethane	120		20	ug/L
Chloroform	ND		10	ug/L
Chloromethane	ND		20	ug/L
2-Chlorotoluene	ND		10	ug/L
Dibromochloromethane	ND		10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		20	ug/L
1,2-Dibromoethane (EDB)	ND		10	ug/L
Dibromomethane	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Dichlorodifluoromethane	ND		20	ug/L
1,1-Dichloroethane	ND		10	ug/L
1,2-Dichloroethane	ND		10	ug/L
1,1-Dichloroethene	ND		50	ug/L
cis-1,2-Dichloroethene	ND		10	ug/L
trans-1,2-Dichloroethene	ND		10	ug/L
1,2-Dichloropropane	ND		10	ug/L
1,3-Dichloropropane	ND		10	ug/L
2,2-Dichloropropane	ND		10	ug/L
1,1-Dichloropropene	ND		10	ug/L
Ethylbenzene	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
Isopropylbenzene	ND		10	ug/L
Isopropyltoluene	ND		10	ug/L
Methylene chloride	4.3	J	50	ug/L
Naphthalene	ND		10	ug/L
n-Propylbenzene	ND		10	ug/L
Styrene	ND		10	ug/L
1,1,1,2-Tetrachloroethane	ND		10	ug/L
1,1,2,2-Tetrachloroethane	ND		10	ug/L
Tetrachloroethene	ND		10	ug/L
Toluene	ND		10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 5/29/97		
LAB ID:	126172-0001-SA		
Matrix:	AQUEOUS	Sampled: 29 MAY 97	Received: 30 MAY 97
Authorized:	30 MAY 97	Prepared: 03 JUN 97	Analyzed: 03 JUN 97
Instrument:	GC/MS-MD	Dilution: 10	

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
1,1,1-Trichloroethane	ND		10	ug/L
1,1,2-Trichloroethane	ND		10	ug/L
Trichloroethene	ND		10	ug/L
Trichlorofluoromethane	ND		20	ug/L
1,2,3-Trichloropropane	ND		10	ug/L
1,2,4-Trimethylbenzene	ND		10	ug/L
1,3,5-Trimethylbenzene	ND		10	ug/L
Vinyl chloride	ND		20	ug/L
m- & p-Xylenes	ND		10	ug/L
o-Xylene	ND		10	ug/L
Acetone	430		100	ug/L
2-Butanone	ND		100	ug/L
4-Methyl-2-pentanone	ND		100	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	92	%	80 - 120
Toluene-d8	87	%	80 - 120
Bromofluorobenzene	86	%	80 - 120

ND = Not Detected

Quanterra Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 5/29/97		
LAB ID:	126172-0001-SA		
Matrix:	AQUEOUS	Sampled: 29 MAY 97	Received: 30 MAY 97
Authorized:	30 MAY 97	Prepared: 02 JUN 97	Analyzed: 03 JUN 97
Instrument:	GC/MS-MA	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Quanterra Environmental Services (cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/29/97
LAB ID: 126172-0001-SA
Matrix: AQUEOUS Sampled: 29 MAY 97 Received: 30 MAY 97
Authorized: 30 MAY 97 Prepared: 02 JUN 97 Analyzed: 03 JUN 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L

ND = Not Detected

Quanterra Environmental Services

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 5/29/97		
LAB ID:	126172-0001-SA		
Matrix:	AQUEOUS	Sampled: 29 MAY 97	Received: 30 MAY 97
Authorized:	30 MAY 97	Prepared: 02 JUN 97	Analyzed: 03 JUN 97
Instrument:	GC/MS-MA	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	47	%	21 - 100
Phenol-d5	28	%	10 - 94
Nitrobenzene-d5	72	%	34 - 114
2-Fluorobiphenyl	73	%	43 - 116
2,4,6-Tribromophenol	78	%	10 - 123
Terphenyl-d14	81	%	33 - 141

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 5/29/97		
LAB ID:	126172-0001-SA		
Matrix:	AQUEOUS	Sampled: 29 MAY 97	Received: 30 MAY 97
Authorized:	30 MAY 97	Prepared: 02 JUN 97	Analyzed: 10 JUN 97
Instrument:	GC/MS-MA	Prep Method: P-8270	Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/29/97
LAB ID: 126172-0001-SA
Matrix: AQUEOUS Sampled: 29 MAY 97 Received: 30 MAY 97
Authorized: 30 MAY 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	6010A	04 JUN 97	06 JUN 9
Beryllium	ND		1.0	0.0050	mg/L	6010A	04 JUN 97	06 JUN 9
Cadmium	ND		1.0	0.0020	mg/L	6010A	04 JUN 97	06 JUN 9
Manganese	0.021		1.0	0.015	mg/L	6010A	04 JUN 97	06 JUN 9
Mercury	ND		1.0	0.00020	mg/L	SW7470	03 JUN 97	05 JUN 9
Selenium	ND		1.0	0.0050	mg/L	6010A	04 JUN 97	06 JUN 9
Thallium	ND		1.0	0.010	mg/L	6010A	04 JUN 97	06 JUN 9
Zinc	ND		1.0	0.020	mg/L	6010A	04 JUN 97	06 JUN 9

ND = Not Detected

Quanterra Environmental Services

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 5/29/97
LAB ID: 126172-0001-SA
Matrix: AQUEOUS — Sampled: 29 MAY 97 — Received: 30 MAY 97
Authorized: 30 MAY 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	7.8		1.0	NA	units	150.1	NA	30 MAY 97
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	04 JUN 97

ND = Not Detected

E.S. BABCOCK & SONS, INC.
ESTABLISHED 1908

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-285940
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana, CA 92705

Page: 1 of 1
Lab No.: L29995-001

Date Reported: 06/12/97

Collected By:
Date: 06/05/97
Time: 1000
Submitted By: PBautista
Date: 06/06/97
Time: 1615

Client I.D.: LAB#126295-0001
Site: MW/ACS
Description: Effluent 06/05/97

Matrix: wastewater

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	7.	mg/L	EPA 405.1	5.	970606/TF

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.
Lawrence J. Chrystal

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/5/97
LAB ID: 126295-0001-SA
Matrix: AQUEOUS
Authorized: 12 JUN 97

Sampled: 05 JUN 97
Prepared: See Below

Received: 06 JUN 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	TOTREC	6010A	12 JUN 97	13 JUN 97
Beryllium	ND		1.0	0.0050	mg/L	TOTREC	6010A	12 JUN 97	13 JUN 97
Cadmium	ND		1.0	0.0020	mg/L	TOTREC	6010A	12 JUN 97	13 JUN 97
Manganese	0.056		1.0	0.015	mg/L	TOTREC	6010A	12 JUN 97	13 JUN 97
Mercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	12 JUN 97	13 JUN 97
Selenium	ND		1.0	0.0050	mg/L	TOTREC	6010A	12 JUN 97	13 JUN 97
Thallium	0.0031	JB	1.0	0.010	mg/L	TOTREC	6010A	12 JUN 97	13 JUN 97
Zinc	ND		1.0	0.020	mg/L	TOTREC	6010A	12 JUN 97	13 JUN 97

B = Compound is also detected in the blank
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC FINAL REVIEW AND APPROVAL

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/5/97
LAB ID: 126295-0001-SA
Matrix: AQUEOUS
Authorized: 12 JUN 97

Sampled: 05 JUN 97
Prepared: See Below

Received: 06 JUN 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
pH	8.0		1.0	NA	units	NONE	150.1	NA	06 JUN 97

Sp'd 6/5 @ 10:00 AM

Rec'd 6/6 @ 10:30 AM

Analyzed 6/6 @ 13:15

HT exceeded by 3hr 15 min.

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/11/97
LAB ID: 126295-0004-SA
Matrix: AQUEOUS Sampled: 11 JUN 97 Received: 12 JUN 97
Authorized: 12 JUN 97 Prepared: 13 JUN 97 Analyzed: 13 JUN 97
Instrument: GC/MS-MC Dilution: 10

Parameter	Result	Qualifier	RL	Units
Benzene	ND		10	ug/L
Bromobenzene	ND		10	ug/L
Bromochloromethane	ND		10	ug/L
Bromodichloromethane	ND		10	ug/L
Bromoform	ND		10	ug/L
Bromomethane	ND		20	ug/L
n-Butylbenzene	ND		10	ug/L
sec-Butylbenzene	ND		10	ug/L
Carbon tetrachloride	ND		10	ug/L
Chlorobenzene	ND		10	ug/L
Chloroethane	450		20	ug/L
Chloroform	ND		10	ug/L
Chloromethane	ND		20	ug/L
2-Chlorotoluene	ND		10	ug/L
Dibromochloromethane	ND		10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		20	ug/L
1,2-Dibromoethane (EDB)	ND		10	ug/L
Dibromomethane	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Dichlorodifluoromethane	ND		20	ug/L
1,1-Dichloroethane	ND		10	ug/L
1,2-Dichloroethane	ND		10	ug/L
1,1-Dichloroethene	ND		50	ug/L
cis-1,2-Dichloroethene	ND		10	ug/L
trans-1,2-Dichloroethene	ND		10	ug/L
1,2-Dichloropropane	ND		10	ug/L
1,3-Dichloropropane	ND		10	ug/L
2,2-Dichloropropane	ND		10	ug/L
1,1-Dichloropropene	ND		10	ug/L
Ethylbenzene	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
Isopropylbenzene	ND		10	ug/L
Isopropyltoluene	ND		10	ug/L
Methylene chloride	110		50	ug/L
Naphthalene	ND		10	ug/L
n-Propylbenzene	ND		10	ug/L
Styrene	ND		10	ug/L
1,1,1,2-Tetrachloroethane	ND		10	ug/L
1,1,2,2-Tetrachloroethane	ND		10	ug/L
Tetrachloroethene	ND		10	ug/L
Toluene	ND		10	ug/L
1,2,3-Trichlorobenzene	ND		10	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/11/97
LAB ID: 126295-0004-SA
Matrix: AQUEOUS — Sampled: 11 JUN 97 — Received: 12 JUN 97
Authorized: 12 JUN 97 — Prepared: 13 JUN 97 — Analyzed: 13 JUN 97
Instrument: GC/MS-MC — Dilution: 10

Parameter	Result	Qualifier	RL	Units
1,2,4-Trichlorobenzene	ND		10	ug/L
1,1,1-Trichloroethane	ND		10	ug/L
1,1,2-Trichloroethane	ND		10	ug/L
Trichloroethene	ND		10	ug/L
Trichlorofluoromethane	ND		20	ug/L
1,2,3-Trichloropropane	ND		10	ug/L
1,2,4-Trimethylbenzene	ND		10	ug/L
1,3,5-Trimethylbenzene	ND		10	ug/L
Vinyl chloride	6.8	J	20	ug/L
m- & p-Xylenes	ND		10	ug/L
o-Xylene	ND		10	ug/L
Acetone	190		100	ug/L
2-Butanone	ND		100	ug/L
4-Methyl-2-pentanone	ND		100	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	106	%	80 - 120
Toluene-d8	101	%	80 - 120
Bromofluorobenzene	98	%	80 - 120

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/11/97
LAB ID: 126295-0004-SA
Matrix: AQUEOUS Sampled: 11 JUN 97 Received: 12 JUN 97
Authorized: 12 JUN 97 Prepared: 13 JUN 97 Analyzed: 17 JUN 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	2.9	J	10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/11/97
LAB ID: 126295-0004-SA
Matrix: AQUEOUS Sampled: 11 JUN 97 Received: 12 JUN 97
Authorized: 12 JUN 97 Prepared: 13 JUN 97 Analyzed: 17 JUN 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
4-Chlorophenyl phenyl ether	ND		10	ug/L
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/11/97
LAB ID: 126295-0004-SA
Matrix: AQUEOUS Sampled: 11 JUN 97 Received: 12 JUN 97
Authorized: 12 JUN 97 Prepared: 13 JUN 97 Analyzed: 17 JUN 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	43	%	21 - 100
Phenol-d5	26	%	10 - 94
Nitrobenzene-d5	66	%	34 - 114
2-Fluorobiphenyl	71	%	43 - 116
2,4,6-Tribromophenol	64	%	10 - 123
Terphenyl-d14	79	%	33 - 141

PRELIMINARY DATA
PENDING QC FINAL REVIEW AND APPROVAL

ND = Not Detected

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/11/97
LAB ID: 126295-0004-SA
Matrix: AQUEOUS Sampled: 11 JUN 97 Received: 12 JUN 97
Authorized: 12 JUN 97 Prepared: 13 JUN 97 Analyzed: 17 JUN 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

ND = Not Detected

** TOTAL PAGE.005 **

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/11/97
LAB ID: 126295-0004-SA
Matrix: AQUEOUS
Authorized: 12 JUN 97

Sampled: 11 JUN 97
Prepared: See Below

Received: 12 JUN 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Total Suspended Solids	ND		1.0	10.0	mg/L	NONE	E160.2	NA	13 JUN 97

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/18/97
LAB ID: 126510-0001-SA
Matrix: AQUEOUS
Authorized: 19 JUN 97

Sampled: 18 JUN 97
Prepared: See Below

Received: 19 JUN 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	8.2		1.0	NA	units	150.1	NA	19 JUN 9
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	20 JUN 9

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/18/97
LAB ID: 126510-0001-SA
Matrix: AQUEOUS
Authorized: 19 JUN 97
Instrument: GC/MS-MA

Sampled: 18 JUN 97
Prepared: 20 JUN 97
Dilution: 1.0

Received: 19 JUN 97
Analyzed: 24 JUN 97

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L
Hexachlorobenzene	ND		1.0	ug/L
Benzo(a)pyrene	ND		0.20	ug/L

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

ND = Not Detected

** TOTAL PAGE.023 **

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/18/97
LAB ID: 126510-0001-SA
Matrix: AQUEOUS
Authorized: 19 JUN 97

Sampled: 18 JUN 97
Prepared: See Below

Received: 19 JUN 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	6010A	19 JUN 97	20 JUN 97
Beryllium	0.00051	J	1.0	0.0050	mg/L	6010A	19 JUN 97	20 JUN 97
Cadmium	ND		1.0	0.0020	mg/L	6010A	19 JUN 97	20 JUN 97
Manganese	0.051		1.0	0.015	mg/L	6010A	19 JUN 97	20 JUN 97
Mercury	ND		1.0	0.00020	mg/L	SW7470	20 JUN 97	20 JUN 97
Selenium	ND		1.0	0.0050	mg/L	6010A	19 JUN 97	20 JUN 97
Thallium	ND		1.0	0.010	mg/L	6010A	19 JUN 97	20 JUN 97
Zinc	0.0064	J	1.0	0.020	mg/L	6010A	19 JUN 97	20 JUN 97

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

E.S. BABCOCK & SONS, INC.

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-1
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana, CA 92705

Client I.D.: 126510-0001
Site: MW/ACS#23
Description: Effluent

Matrix: wastewater

Page 1 of 1
Lab No: L30424-001

Date Reported: 06/27/97

Collected By:
Date: 06/18/97
Time: 1530
Submitted By: NC
Date: 06/19/97
Time: 1500

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	8.	mg/L	EPA 405.1	5.	970620/KOS

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

S. S. Babcock & Sons Inc.

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/18/97
LAB ID: 126510-0001-SA
Matrix: AQUEOUS Sampled: 18 JUN 97 Received: 19 JUN 97
Authorized: 19 JUN 97 Prepared: 19 JUN 97 Analyzed: 19 JUN 97
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	Units
Benzene	ND		10	ug/L
Bromobenzene	ND		10	ug/L
Bromochloromethane	ND		10	ug/L
Bromodichloromethane	ND		10	ug/L
Bromoform	ND		10	ug/L
Bromomethane	ND		20	ug/L
n-Butylbenzene	ND		10	ug/L
sec-Butylbenzene	ND		10	ug/L
Carbon tetrachloride	ND		10	ug/L
Chlorobenzene	ND		10	ug/L
Chloroethane	580		20	ug/L
Chloroform	ND		10	ug/L
Chloromethane-	ND		20	ug/L
2-Chlorotoluene	ND		10	ug/L
Dibromochloromethane	ND		10	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		20	ug/L
1,2-Dibromoethane (EDB)	ND		10	ug/L
Dibromomethane	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Dichlorodifluoromethane	ND		20	ug/L
1,1-Dichloroethane	4.1	J	10	ug/L
1,2-Dichloroethane	ND		10	ug/L
1,1-Dichloroethene	ND		50	ug/L
cis-1,2-Dichloroethene	3.3	J	10	ug/L
trans-1,2-Dichloroethene	ND		10	ug/L
1,2-Dichloropropane	ND		10	ug/L
1,3-Dichloropropane	ND		10	ug/L
2,2-Dichloropropane	ND		10	ug/L
1,1-Dichloropropene	ND		10	ug/L
Ethylbenzene	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
Isopropylbenzene	ND		10	ug/L
Isopropyltoluene	ND		10	ug/L
Methylene chloride	58		50	ug/L
Naphthalene	ND		10	ug/L
n-Propylbenzene	ND		10	ug/L
Styrene	ND		10	ug/L
1,1,1,2-Tetrachloroethane	ND		10	ug/L
1,1,2,2-Tetrachloroethane	ND		10	ug/L
Tetrachloroethene	ND		10	ug/L
Toluene	ND		10	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Volatile Organic Compounds (cont.)
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/18/97
LAB ID: 126510-0001-SA
Matrix: AQUEOUS Sampled: 18 JUN 97 Received: 19 JUN 97
Authorized: 19 JUN 97 Prepared: 19 JUN 97 Analyzed: 19 JUN 97
Instrument: GC/MS-MD Dilution: 10

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
1,1,1-Trichloroethane	ND		10	ug/L
1,1,2-Trichloroethane	ND		10	ug/L
Trichloroethene	ND		10	ug/L
Trichlorofluoromethane	ND		20	ug/L
1,2,3-Trichloropropane	ND		10	ug/L
1,2,4-Trimethylbenzene	ND		10	ug/L
1,3,5-Trimethylbenzene	ND		10	ug/L
Vinyl chloride	37		20	ug/L
m- & p-Xylenes	ND		10	ug/L
o-Xylene	ND		10	ug/L
Acetone	70	J	100	ug/L
2-Butanone	ND		100	ug/L
4-Methyl-2-pentanone	ND		100	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	83	%	80 - 120
Toluene-d8	100	%	80 - 120
Bromofluorobenzene	93	%	80 - 120

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/18/97
LAB ID: 126510-0001-SA
Matrix: AQUEOUS Sampled: 18 JUN 97 Received: 19 JUN 97
Authorized: 19 JUN 97 Prepared: 20 JUN 97 Analyzed: 20 JUN 97
Instrument: GC/MS-MI Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	9.3	J	10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds
Appendix IX List
Method 8270

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/18/97
LAB ID: 126510-0001-SA
Matrix: AQUEOUS Sampled: 18 JUN 97 Received: 19 JUN 97
Authorized: 19 JUN 97 Prepared: 20 JUN 97 Analyzed: 20 JUN 97
Instrument: GC/MS-MI Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
4-Chlorophenyl phenyl ether	ND		10	ug/L
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/18/97
LAB ID: 126510-0001-SA
Matrix: AQUEOUS Sampled: 18 JUN 97 Received: 19 JUN 97
Authorized: 19 JUN 97 Prepared: 20 JUN 97 Analyzed: 20 JUN 97
Instrument: GC/MS-MI Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	36	%	21 - 100
Phenol-d5	26	%	10 - 94
Nitrobenzene-d5	58	%	34 - 114
2-Fluorobiphenyl	62	%	43 - 116
2,4,6-Tribromophenol	53	%	10 - 123
Terphenyl-d14	67	%	33 - 141

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/23/97
LAB ID: 126580-0002-SA
Matrix: AQUEOUS — Sampled: 23 JUN 97 — Received: 24 JUN 97
Authorized: 24 JUN 97 — Prepared: 26 JUN 97 — Analyzed: 26 JUN 97
Instrument: GC/MS-MD — Prep Method: SW5030 — Dilution: 2.5

Parameter	Result	Qualifier	RL	Units
Benzene	1.7	J	2.5	ug/L
Bromobenzene	ND		2.5	ug/L
Bromochloromethane	ND		2.5	ug/L
Bromodichloromethane	ND		2.5	ug/L
Bromoform	ND		2.5	ug/L
Bromomethane	ND		5.0	ug/L
n-Butylbenzene	ND		2.5	ug/L
sec-Butylbenzene	ND		2.5	ug/L
Carbon tetrachloride	ND		2.5	ug/L
Chlorobenzene	ND		2.5	ug/L
Chloroethane	130		5.0	ug/L
Chloroform	ND		2.5	ug/L
Chloromethane	0.78	J	5.0	ug/L
2-Chlorotoluene	ND		2.5	ug/L
Dibromochloromethane	ND		2.5	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		5.0	ug/L
1,2-Dibromoethane (EDB)	ND		2.5	ug/L
Dibromomethane	ND		2.5	ug/L
1,2-Dichlorobenzene	ND		2.5	ug/L
1,3-Dichlorobenzene	ND		2.5	ug/L
1,4-Dichlorobenzene	ND		2.5	ug/L
Dichlorodifluoromethane	ND		5.0	ug/L
1,1-Dichloroethane	ND		2.5	ug/L
1,2-Dichloroethane	ND		2.5	ug/L
1,1-Dichloroethene	ND		12	ug/L
cis-1,2-Dichloroethene	ND		2.5	ug/L
trans-1,2-Dichloroethene	ND		2.5	ug/L
1,2-Dichloropropane	ND		2.5	ug/L
1,3-Dichloropropane	ND		2.5	ug/L
2,2-Dichloropropane	ND		2.5	ug/L
1,1-Dichloropropene	ND		2.5	ug/L
Ethylbenzene	ND		2.5	ug/L
Hexachlorobutadiene	ND		2.5	ug/L
Isopropylbenzene	ND		2.5	ug/L
Isopropyltoluene	ND		2.5	ug/L
Methylene chloride	13		12	ug/L
Naphthalene	ND		2.5	ug/L
n-Propylbenzene	ND		2.5	ug/L
Styrene	ND		2.5	ug/L
1,1,1,2-Tetrachloroethane	ND		2.5	ug/L
1,1,2,2-Tetrachloroethane	ND		2.5	ug/L
Tetrachloroethene	ND		2.5	ug/L
Toluene	ND		2.5	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Volatile Organic Compounds (cont.)
Method SW826CA

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/23/97
LAB ID: 126580-0002-SA
Matrix: AQUEOUS Sampled: 23 JUN 97 Received: 24 JUN 97
Authorized: 24 JUN 97 Prepared: 26 JUN 97 Analyzed: 26 JUN 97
Instrument: GC/MS-MD Prep Method: SW5030 Dilution: 2.5

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		2.5	ug/L
1,2,4-Trichlorobenzene	ND		2.5	ug/L
1,1,1-Trichloroethane	ND		2.5	ug/L
1,1,2-Trichloroethane	ND		2.5	ug/L
Trichloroethene	ND		2.5	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,2,3-Trichloropropane	ND		2.5	ug/L
1,2,4-Trimethylbenzene	ND		2.5	ug/L
1,3,5-Trimethylbenzene	ND		2.5	ug/L
Vinyl chloride	1.6	J	5.0	ug/L
m- & p-Xylenes	ND		2.5	ug/L
o-Xylene	ND		2.5	ug/L
Acetone	ND		25	ug/L
2-Butanone	ND		25	ug/L
4-Methyl-2-pentanone	ND		25	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	92	%	80 - 120
Toluene-d8	104	%	80 - 120
Bromofluorobenzene	96	%	80 - 120

PRELIMINARY DATA
PENDING QC FINAL REVIEW AND APPROVAL

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/27/97
LAB ID: 126667-0001-SA
Matrix: AQUEOUS
Authorized: 28 JUN 97
Instrument: GC/MS-MD

Sampled: 27 JUN 97
Prepared: 30 JUN 97
Dilution: 1.0

Received: 28 JUN 97
Analyzed: 30 JUN 97

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	0.72	J	2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/27/97
LAB ID: 126667-0001-SA
Matrix: AQUEOUS
Authorized: 28 JUN 97
Instrument: GC/MS-MD

Sampled: 27 JUN 97
Prepared: 30 JUN 97
Dilution: 1.0

Received: 28 JUN 97
Analyzed: 30 JUN 97

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	9.3	J	10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	108	%	80 - 120
Bromofluorobenzene	104	%	80 - 120

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/27/97
LAB ID: 126567-0001-SA
Matrix: AQUEOUS
Authorized: 28 JUN 97

Sampled: 27 JUN 97
Prepared: See Below

Received: 28 JUN 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	0.17		1.0	0.010	mg/L	6010A	30 JUN 97	01 JUL 9
Beryllium	0.00085	J	1.0	0.0050	mg/L	6010A	30 JUN 97	01 JUL 9
Cadmium	ND		1.0	0.0020	mg/L	6010A	30 JUN 97	01 JUL 9
Manganese	0.0066	J	1.0	0.015	mg/L	6010A	30 JUN 97	01 JUL 9
Mercury	ND		1.0	0.00020	mg/L	SW7470	30 JUN 97	30 JUN 9
Selenium	ND		1.0	0.0050	mg/L	6010A	30 JUN 97	01 JUL 9
Thallium	0.0071	JB	1.0	0.010	mg/L	6010A	30 JUN 97	01 JUL 9
Zinc	0.0073	JB	1.0	0.020	mg/L	6010A	30 JUN 97	01 JUL 9

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/27/97
LAB ID: 126667-0001-SA
Matrix: AQUEOUS Sampled: 27 JUN 97 Received: 28 JUN 97
Authorized: 28 JUN 97 Prepared: 30 JUN 97 Analyzed: 01 JUL 97
Instrument: GC/MS-MZ Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/27/97
LAB ID: 126667-0001-SA
Matrix: AQUEOUS Sampled: 27 JUN 97 Received: 28 JUN 97
Authorized: 28 JUN 97 Prepared: 30 JUN 97 Analyzed: 01 JUL 97
Instrument: GC/MS-ME Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/27/97
LAB ID: 126667-0001-SA
Matrix: AQUEOUS Sampled: 27 JUN 97 Received: 28 JUN 97
Authorized: 28 JUN 97 Prepared: 30 JUN 97 Analyzed: 01 JUL 97
Instrument: GC/MS-ME Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	34	%	21 - 100
Phenol-d5	20	%	10 - 94
Nitrobenzene-d5	50	%	34 - 114
2-Fluorobiphenyl	65	%	43 - 116
2,4,6-Tribromophenol	70	%	10 - 123
Terphenyl-d14	57	%	33 - 141

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

ND = Not Detected

** TOTAL PAGE.006 **

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 6/27/97
LAB ID: 126667-0001-SA
Matrix: AQUEOUS
Authorized: 28 JUN 97

Sampled: 27 JUN 97
Prepared: See Below

Received: 28 JUN 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	10.0		1.0	NA	units	150.1	NA	28 JUN 9
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	30 JUN 9

ND = Not Detected

** TOTAL PAGE.002 **

Industrial & Environmental Analysts, Inc. (IEA)
GC SEMIVOLATILE SW-846 METHOD 8080 PCB in WATER

IEA Project Number:	2240-061	Date Received:	06/28/97
IEA Sample Number:	9706575-01	Date Sampled:	06/27/97
Client Name:	Montgomery Watson	Date Extracted:	07/02/97
Client Project ID:	ACS-#89	Date Analyzed:	07/02/97
Sample Identification:	EFFLUENT 6/27/97	Analysis By:	Briggs
Associated QC Blank:	PB510	Dilution Factor:	1.0
QC Batch ID#:	510	Matrix:	Water

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.50	BQL
2	Aroclor 1221	0.50	BQL
3	Aroclor 1232	0.50	BQL
4	Aroclor 1242	0.50	BQL
5	Aroclor 1248	0.50	BQL
6	Aroclor 1254	1.0	BQL
7	Aroclor 1260	1.0	BQL

Surrogate Compounds:	Acceptance Criteria	% Recovery
Tetrachloro-m-xylene	60 - 150	88
Decachlorobiphenyl	60 - 150	104

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

FORM RPCBW Rev. 082296

Quanterra
Environmental Services

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7-10-97
LAB ID: 126843-0001-SA
Matrix: AQUEOUS
Sampled: 10 JUL 97
Received: 11 JUL 97
Authorized: 11 JUL 97
Prepared: See Below
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	9.0		1.0	NA	units	150.1	NA	11 JUL 97
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	11 JUL 97

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7-10-97
LAB ID: 126843-0001-SA
Matrix: AQUEOUS — Sampled: 10 JUL 97 — Received: 11 JUL 97
Authorized: 11 JUL 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	0.061		1.0	0.010	mg/L	6010A	14 JUL 97	14 JUL 97
Beryllium	0.00043	J	1.0	0.0050	mg/L	6010A	14 JUL 97	14 JUL 97
Cadmium	ND		1.0	0.0020	mg/L	6010A	14 JUL 97	14 JUL 97
Manganese	0.015		1.0	0.015	mg/L	6010A	14 JUL 97	14 JUL 97
Mercury	ND		1.0	0.00020	mg/L	SW7470	14 JUL 97	14 JUL 97
Selenium	ND		1.0	0.0050	mg/L	6010A	14 JUL 97	14 JUL 97
Thallium	0.0038	JB	1.0	0.010	mg/L	6010A	14 JUL 97	14 JUL 97
Zinc	0.019	J	1.0	0.020	mg/L	6010A	14 JUL 97	14 JUL 97

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Quanterra Environmental Services

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7-10-97
LAB ID: 126843-0001-SA
Matrix: AQUEOUS
Authorized: 11 JUL 97
Instrument: GC/MS-MA

Sampled: 10 JUL 97
Prepared: 11 JUL 97
Dilution: 1.0

Received: 11 JUL 97
Analyzed: 14 JUL 97

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method SW8260A

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 7-10-97		
LAB ID:	126843-0001-SA		
Matrix:	AQUEOUS	Sampled: 10 JUL 97	Received: 11 JUL 97
Authorized:	11 JUL 97	Prepared: 14 JUL 97	Analyzed: 14 JUL 97
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7-10-97
LAB ID: 126843-0001-SA
Matrix: AQUEOUS Sampled: 10 JUL 97 Received: 11 JUL 97
Authorized: 11 JUL 97 Prepared: 14 JUL 97 Analyzed: 14 JUL 97
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	104	%	80 - 120
Toluene-d8	99	%	80 - 120
Bromofluorobenzene	109	%	80 - 120

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7-10-97
LAB ID: 126843-0001-SA
Matrix: AQUEOUS Sampled: 10 JUL 97 Received: 11 JUL 97
Authorized: 11 JUL 97 Prepared: 11 JUL 97 Analyzed: 11 JUL 97
Instrument: GC/MS-ME Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7-10-97
LAB ID: 126843-0001-SA
Matrix: AQUEOUS Sampled: 10 JUL 97 Received: 11 JUL 97
Authorized: 11 JUL 97 Prepared: 11 JUL 97 Analyzed: 11 JUL 97
Instrument: GC/MS-ME Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L

ND = Not Detected

Quanterra
Environmental Services

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 7-10-97		
LAB ID:	126843-0001-SA		
Matrix:	AQUEOUS	Sampled: 10 JUL 97	Received: 11 JUL 97
Authorized:	11 JUL 97	Prepared: 11 JUL 97	Analyzed: 11 JUL 97
Instrument:	GC/MS-ME	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	32	%	21 - 100
Phenol-d5	20	%	10 - 94
Nitrobenzene-d5	54	%	34 - 114
2-Fluorobiphenyl	62	%	43 - 116
2,4,6-Tribromophenol	67	%	10 - 123
Terphenyl-d14	56	%	33 - 141

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7/16/97
LAB ID: 126944-0001-SA
Matrix: AQUEOUS
Sampled: 16 JUL 97
Received: 17 JUL 97
Authorized: 17 JUL 97
Prepared: See Below
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	0.024		1.0	0.010	mg/L	6010A	17 JUL 97	22 JUL 97

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7/29/97
LAB ID: 127191-0001-SA
Matrix: AQUEOUS Sampled: 29 JUL 97 Received: 30 JUL 97
Authorized: 30 JUL 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	FLDFLT	6010A	31 JUL 97	31 JUL 97
Beryllium	ND		1.0	0.0050	mg/L	FLDFLT	6010A	31 JUL 97	31 JUL 97
Cadmium	ND		1.0	0.0020	mg/L	FLDFLT	6010A	31 JUL 97	31 JUL 97
Manganese	0.21		1.0	0.015	mg/L	FLDFLT	6010A	31 JUL 97	31 JUL 97
Mercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	31 JUL 97	31 JUL 97
Selenium	ND		1.0	0.0050	mg/L	FLDFLT	6010A	31 JUL 97	31 JUL 97
Thallium	0.0046	J	1.0	0.010	mg/L	FLDFLT	6010A	31 JUL 97	31 JUL 97
Zinc	0.017	JB	1.0	0.020	mg/L	FLDFLT	6010A	31 JUL 97	31 JUL 97

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7/29/97
LAB ID: 127191-0001-SA
Matrix: AQUEOUS Sampled: 29 JUL 97 Received: 30 JUL 97
Authorized: 30 JUL 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
pH	9.9		1.0	NA	units	NONE	150.1	NA	30 JUL 97
Total Suspended Solids	96.0		1.0	10.0	mg/L	NONE	E160.2	NA	31 JUL 97

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7/29/97
LAB ID: 127191-0001-SA
Matrix: AQUEOUS — Sampled: 29 JUL 97 — Received: 30 JUL 97
Authorized: 30 JUL 97 — Prepared: 31 JUL 97 — Analyzed: 31 JUL 97
Instrument: GC/MS-MD — Prep Method: SW5030 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L

ND = Not Detected

Volatile Organic Compounds (cont.)
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7/29/97
LAB ID: 127191-0001-SA
Matrix: AQUEOUS Sampled: 29 JUL 97 Received: 30 JUL 97
Authorized: 30 JUL 97 Prepared: 31 JUL 97 Analyzed: 31 JUL 97
Instrument: GC/MS-MD Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	106	%	80 - 120
Toluene-d8	107	%	80 - 120
Bromofluorobenzene	102	%	80 - 120

ND = Not Detected

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7/29/97
LAB ID: 127191-0001-SA
Matrix: AQUEOUS Sampled: 29 JUL 97 Received: 30 JUL 97
Authorized: 30 JUL 97 Prepared: 30 JUL 97 Analyzed: 07 AUG 97
Instrument: GC/MS-ME Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L
4-Chlorophenyl phenyl ether	ND		10	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7/29/97
LAB ID: 127191-0001-SA
Matrix: AQUEOUS Sampled: 29 JUL 97 Received: 30 JUL 97
Authorized: 30 JUL 97 Prepared: 30 JUL 97 Analyzed: 07 AUG 97
Instrument: GC/MS-ME Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	0.94	J	10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

(cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 7/29/97
LAB ID: 127191-0001-SA
Matrix: AQUEOUS
Authorized: 30 JUL 97
Instrument: GC/MS-ME

Sampled: 29 JUL 97
Prepared: 30 JUL 97
Dilution: 1.0

Received: 30 JUL 97
Analyzed: 07 AUG 97

Parameter	Result	Qualifier	RL	Units
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	27	%	21 - 100
Phenol-d5	17	%	10 - 94
Nitrobenzene-d5	48	%	34 - 114
2-Fluorobiphenyl	56	%	43 - 116
2,4,6-Tribromophenol	67	%	10 - 123
Terphenyl-d14	58	%	33 - 141

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 7/29/97		
LAB ID:	127191-0001-SA		
Matrix:	AQUEOUS	Sampled: 29 JUL 97	Received: 30 JUL 97
Authorized:	30 JUL 97	Prepared: 30 JUL 97	Analyzed: 01 AUG 97
Instrument:	GC/MS-MA	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

E.S. BABCOCK & SONS, INC.

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-1
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana, CA 92705

Client I.D.: 127342-0001 SA
Site: MW/ACS 89
Description: Effluent 8/7/97 - 8-4-97

Matrix: wastewater

Page: 1 of 1
Lab No.: L31819-001

Date Reported: 08/12/97

Collected By:
Date: 08/04/97
Time: 1400
Submitted By: Courier
Date: 08/05/97
Time: 1530

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	ND	mg/L	EPA 405.1	5.	970806/JB

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

E. S. Babcock & Sons Inc.

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8/5/97
LAB ID: 127361-0003-SA
Matrix: AQUEOUS
Authorized: 06 AUG 97

Sampled: 05 AUG 97
Prepared: See Below

Received: 06 AUG 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	7.4		1.0	NA	units	150.1	NA	06 AUG 97
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	07 AUG 97

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8/4/97
LAB ID: 127342-0001-SA
Matrix: AQUEOUS Sampled: 04 AUG 97 Received: 05 AUG 97
Authorized: 05 AUG 97 Prepared: See Below Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	FLDFLT	6010A	05 AUG 97	05 AUG 97
Beryllium	ND		1.0	0.0050	mg/L	FLDFLT	6010A	05 AUG 97	05 AUG 97
Cadmium	ND		1.0	0.0020	mg/L	FLDFLT	6010A	05 AUG 97	05 AUG 97
Manganese	0.12		1.0	0.015	mg/L	FLDFLT	6010A	05 AUG 97	05 AUG 97
Mercury	ND		1.0	0.00020	mg/L	METHOD	SW7470	05 AUG 97	06 AUG 97
Selenium	ND		1.0	0.0050	mg/L	FLDFLT	6010A	05 AUG 97	05 AUG 97
Thallium	ND		1.0	0.010	mg/L	FLDFLT	6010A	05 AUG 97	05 AUG 97
Zinc	0.038		1.0	0.020	mg/L	FLDFLT	6010A	05 AUG 97	05 AUG 97

ND = Not Detected

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8/4/97
LAB ID: 127342-0001-SA
Matrix: AQUEOUS Sampled: 04 AUG 97 Received: 05 AUG 97
Authorized: 05 AUG 97 Prepared: 08 AUG 97 Analyzed: 08 AUG 97
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L

— = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

(cont.)

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8/4/97
LAB ID: 127342-0001-SA
Matrix: AQUEOUS Sampled: 04 AUG 97 Received: 05 AUG 97
Authorized: 05 AUG 97 Prepared: 08 AUG 97 Analyzed: 08 AUG 97
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	107	%	80 - 120
Toluene-d8	102	%	80 - 120
Bromofluorobenzene	98	%	80 - 120

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8/4/97
LAB ID: 127342-0001-SA
Matrix: AQUEOUS Sampled: 04 AUG 97 Received: 05 AUG 97
Authorized: 05 AUG 97 Prepared: 05 AUG 97 Analyzed: 07 AUG 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
4-Chlorophenyl phenyl ether	ND		10	ug/L
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	0.56	J	10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	3.3	J	50	ug/L
Benzo(a)anthracene	0.82	J	10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	0.71	J	10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	4.0	J	50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
D = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8/4/97
LAB ID: 127342-0001-SA
Matrix: AQUEOUS Sampled: 04 AUG 97 Received: 05 AUG 97
Authorized: 05 AUG 97 Prepared: 05 AUG 97 Analyzed: 07 AUG 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	9.7	J	10	ug/L
Phenol	ND		10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	7.1	J	10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L

= Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8/4/97
LAB ID: 127342-0001-SA
Matrix: AQUEOUS Sampled: 04 AUG 97 Received: 05 AUG 97
Authorized: 05 AUG 97 Prepared: 05 AUG 97 Analyzed: 07 AUG 97
Instrument: GC/MS-MA Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	36	%	21 - 100
Phenol-d5	21	%	10 - 94
Nitrobenzene-d5	66	%	34 - 114
2-Fluorobiphenyl	78	%	43 - 116
2,4,6-Tribromophenol	61	%	10 - 123
Terphenyl-d14	69	%	33 - 141

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

D = Not Detected

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 8/4/97		
LAB ID:	127342-0001-SA		
Matrix:	AQUEOUS	Sampled: 04 AUG 97	Received: 05 AUG 97
Authorized:	05 AUG 97	Prepared: 05 AUG 97	Analyzed: 08 AUG 97
Instrument:	GC/MS-MA	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

ND = Not Detected

Industrial & Environmental Analysts, Inc. (IEA)
PCB IN WATER

IEA Project Number:	2240-074	Date Received:	08/05/97
IEA Sample Number:	9708089-01	Date Sampled:	08/04/97
Client Name:	Montgomery Watson	Date Extracted:	08/05/97
Client Project I.D.:	ACS #89 (Superfund)	Date Analyzed:	08/06/97
Sample Identification:	EFFLUENT	Analysis By:	Briggs
Matrix:	Water	Dilution Factor:	1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Aroclor 1016	0.50	BQL
2	Aroclor 1221	0.50	BQL
3	Aroclor 1232	0.50	BQL
4	Aroclor 1242	0.50	BQL
5	Aroclor 1248	0.50	BQL
6	Aroclor 1254	1.0	BQL
7	Aroclor 1260	1.0	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL - Below Quantitation Limit

FORM PCBW Rev. 030293

E.S. BABCOCK & SONS, INC.

8100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1158

3466-1
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana, CA 92705

Client I.D.: 127482-0001 SA
Site: MW/ACS
Description: Effluent 8-11-97

Matrix: wastewater

Date Reported: 08/20/97

Collected By:
Date: 08/11/97
Time: 0800
Submitted By: Courier
Date: 08/12/97
Time: 1545

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	ND	mg/L	EPA 405.1	5.	970813/JB

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

Postal Fax Note 7671

To [illegible]	Date 8-20 [illegible]
Co./Dept. [illegible]	From Babcock Lab
Phone #	Co.
Fax # 714 258-3618	Phone #
	Fax #

E. S. Babcock & Sons Inc.
[signature]

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-11-97
LAB ID: 127482-0001-SA
Matrix: AQUEOUS — Sampled: 11 AUG 97 — Received: 12 AUG 97
Authorized: 12 AUG 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Prep Method	Test Method	Prepared Date	Analyzed Date
pH	7.8		1.0	NA	units	NONE	150.1	NA	12 AUG 97
Total Suspended Solids	ND		1.0	10.0	mg/L	NONE	E160.2	NA	13 AUG 97

ND = Not Detected

Reviewed by [illegible]
8-25-97
RL - ok except for Hg
In Compliance

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-11-97
LAB ID: 127482-0001-SA
Matrix: AQUEOUS — Sampled: 11 AUG 97 — Received: 12 AUG 97
Authorized: 12 AUG 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	ND		1.0	0.010	mg/L	6010A	12 AUG 97	14 AUG 97
Beryllium	0.00032	J	1.0	0.0050	mg/L	6010A	12 AUG 97	14 AUG 97
Cadmium	ND		1.0	0.0020	mg/L	6010A	12 AUG 97	14 AUG 97
Manganese	0.096		1.0	0.015	mg/L	6010A	12 AUG 97	14 AUG 97
Mercury	ND		1.0	0.00020	mg/L	SW7470	13 AUG 97	14 AUG 97
Selenium	ND		1.0	0.0050	mg/L	6010A	12 AUG 97	14 AUG 97
Thallium	0.0054	J	1.0	0.010	mg/L	6010A	12 AUG 97	14 AUG 97
Zinc	0.025		1.0	0.020	mg/L	6010A	12 AUG 97	14 AUG 97

Need 0.00002

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Reviewed [illegible] 8-05 [illegible]
RL - OK
IN COMPLIANCE

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-11-97
LAB ID: 127482-0001-SA
Matrix: AQUEOUS — Sampled: 11 AUG 97 — Received: 12 AUG 97
Authorized: 12 AUG 97 — Prepared: 14 AUG 97 — Analyzed: 14 AUG 97
Instrument: GC/MS-MC — Prep Method: SW5030 — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L

ND = Not Detected

Volatile Organic Compounds (cont.)
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-11-97
LAB ID: 127482-0001-SA
Matrix: AQUEOUS Sampled: 11 AUG 97 Received: 12 AUG 97
Authorized: 12 AUG 97 Prepared: 14 AUG 97 Analyzed: 14 AUG 97
Instrument: GC/MS-MC Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	113	%	80 - 120
Toluene-d8	103	%	80 - 120
Bromofluorobenzene	98	%	80 - 120

ND = Not Detected

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: 1ST GAC EFFLUENT
LAB ID: 127482-0002-SA
Matrix: AQUEOUS Sampled: 11 AUG 97 Received: 12 AUG 97
Authorized: 12 AUG 97 Prepared: 14 AUG 97 Analyzed: 14 AUG 97
Instrument: GC/MS-MC Prep Method: SW5030 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Benzene	0.46	J	1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: 1ST GAC EFFLUENT
LAB ID: 127482-0002-SA
Matrix: AQUEOUS | Sampled: 11 AUG 97 | Received: 12 AUG 97
Authorized: 12 AUG 97 | Prepared: 14 AUG 97 | Analyzed: 14 AUG 97
Instrument: GC/MS-MC | Prep Method: SW5030 | Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	1.7	J	10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	112	%	80 - 120
Toluene-d8	102	%	80 - 120
Bromofluorobenzene	96	%	80 - 120

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-11-97
LAB ID: 127482-0001-SA
Matrix: AQUEOUS
Authorized: 12 AUG 97
Instrument: GC/MS-MK

Sampled: 11 AUG 97
Prepared: 12 AUG 97
Prep Method: SW3510

Received: 12 AUG 97
Analyzed: 13 AUG 97
Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	0.85	J	10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
Bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

(cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-11-97
LAB ID: 127462-0001-SA
Matrix: AQUEOUS
Authorized: 12 AUG 97
Instrument: GC/MS-MX

Sampled: 11 AUG 97
Prepared: 12 AUG 97
Prep Method: SW3510

Received: 12 AUG 97
Analyzed: 13 AUG 97
Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
4-Chlorophenyl phenyl ether	ND		10	ug/L
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	ND		10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L

ND = Not Detected

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-11-97
LAB ID: 127462-0001-SA
Matrix: AQUEOUS
Authorized: 12 AUG 97
Instrument: GC/MS-MS

Sampled: 11 AUG 97
Prepared: 12 AUG 97
Prep Method: SW3510

Received: 12 AUG 97
Analyzed: 13 AUG 97
Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	37	%	21 - 100
Phenol-d5	24	%	10 - 94
Nitrobenzene-d5	69	%	34 - 114
2-Fluorobiphenyl	69	%	43 - 116
2,4,6-Tribromophenol	70	%	10 - 123
Terphenyl-d14	59	%	33 - 141

ND = Not Detected

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 8-11-97		
LAB ID:	127482-0001-SA		
Matrix:	AQUEOUS	Sampled: 11 AUG 97	Received: 12 AUG 97
Authorized:	12 AUG 97	Prepared: 12 AUG 97	Analyzed: 28 AUG 97
Instrument:	GC/MS-MA	Prep Method: SW3510	Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

ND = Not Detected

E.S. BABCOCK & SONS, INC.

6100 Quail Valley Court Riverside, CA 92507
P.O. Box 432 Riverside, CA 92502
PH (909) 653-3351 FAX (909) 653-1662
Environmental Laboratory Certification #1156

2466-1
Client:
Quanterra Environmental Services
Manny Valasquez
1721 S. Grand Avenue

Santa Ana, CA 92705

Page 1 of 1
Lab No.: L32590-001

Date Reported: 08/28/97

Collected By:
Date: 08/18/97
Time: 0800
Submitted By: EDimalanta
Date: 08/21/97
Time: 0850

Client I.D.: LAB#127629-0001 SA
Site: MW/ACS
Description: Effluent Grab

Matrix: wastewater

Constituent	Result		Method	RL	Date / Analyst
Biochemical Oxygen Demand	12.	mg/L	EPA 405.1	5.	970821/TF

ND = None detected at RL (Reporting Limit). RL units same as result.

cc:

Post-it® Fax Note 7671

To Sharon Meves	Date 8-28 # of pages ▸ 2
Co./Dept. Quanterra	From
Phone #	Co. Babcock Lab
Fax # 714 258-8618	Phone #
	Fax #

E. S. Babcock & Sons Inc.
Lauren J Chapel

Reviewed by I. Tutsin
8-25-97
RL- ok except Hg
In compliance

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-18-97
LAB ID: 127629-0001-SA
Matrix: AQUEOUS — Sampled: 18 AUG 97 — Received: 20 AUG 97
Authorized: 20 AUG 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	0.0043	J	1.0	0.010	mg/L	6010A	20 AUG 97	20 AUG 97
Beryllium	ND		1.0	0.0050	mg/L	6010A	20 AUG 97	20 AUG 97
Cadmium	ND		1.0	0.0020	mg/L	6010A	20 AUG 97	20 AUG 97
Manganese	0.42		1.0	0.015	mg/L	6010A	20 AUG 97	20 AUG 97
Mercury	ND		1.0	0.00020	mg/L	SW7470	20 AUG 97	20 AUG 97
Selenium	ND		1.0	0.0050	mg/L	6010A	20 AUG 97	20 AUG 97
Thallium	0.0038	JB	1.0	0.010	mg/L	6010A	20 AUG 97	20 AUG 97
Zinc	0.014	J	1.0	0.020	mg/L	6010A	20 AUG 97	20 AUG 97

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

OK
T. Tufein
8-25-97

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-18-97
LAB ID: 127629-0001-SA
Matrix: AQUEOUS
Authorized: 20 AUG 97

Sampled: 18 AUG 97
Prepared: See Below

Received: 20 AUG 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	8.2		1.0	NA	units	150.1	NA	20 AUG 97
Total Suspended Solids	13.0		1.0	10.0	mg/L	E160.2	NA	20 AUG 97

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Volatile Organic Compounds
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-18-97
LAB ID: 127629-0001-SA
Matrix: AQUEOUS
Authorized: 20 AUG 97
Instrument: GC/MS-MD

Sampled: 18 AUG 97
Prepared: 21 AUG 97
Dilution: 1.0

Received: 20 AUG 97
Analysed: 21 AUG 97

Parameter	Result	Qualifier	RL	Units
Benzene	0.73	J	1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	ND		2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon Tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	ND		2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	ND		5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Volatile Organic Compounds
Method SW8260A

(cont.)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-18-97
LAB ID: 127629-0001-8A
Matrix: AQUEOUS
Authorized: 20 AUG 97
Instrument: GC/MS-MD

Sampled: 18 AUG 97
Prepared: 21 AUG 97
Dilution: 1.0

Received: 20 AUG 97
Analyzed: 21 AUG 97

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	109	%	80 - 120
Toluene-d8	109	%	80 - 120
Bromofluorobenzene	104	%	80 - 120

ND = Not Detected

~~[illegible]~~
IN COMPLIANCE
T. TUYEIN 8-25-97

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 8-18-97		
LAB ID:	127629-0001-SA		
Matrix:	AQUEOUS	Sampled: 18 AUG 97	Received: 20 AUG 97
Authorized:	20 AUG 97	Prepared: 21 AUG 97	Analyzed: 21 AUG 97
Instrument:	GC/MS-ME	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
N-Nitrosodimethylamine	ND		10	ug/L
Aniline	ND		10	ug/L
Phenol	5.1	J	10	ug/L
bis(2-Chloroethyl) ether	ND		10	ug/L
2-Chlorophenol	ND		10	ug/L
1,3-Dichlorobenzene	ND		10	ug/L
1,4-Dichlorobenzene	ND		10	ug/L
Benzyl alcohol	ND		10	ug/L
1,2-Dichlorobenzene	ND		10	ug/L
2-Methylphenol	ND		10	ug/L
bis(2-Chloroisopropyl)-ether	ND		10	ug/L
3/4-Methylphenol	ND		10	ug/L
N-Nitroso-di-n-propylamine	ND		10	ug/L
Hexachloroethane	ND		10	ug/L
Nitrobenzene	ND		10	ug/L
Isophorone	ND		10	ug/L
2-Nitrophenol	ND		10	ug/L
2,4-Dimethylphenol	ND		10	ug/L
Benzoic acid	ND		50	ug/L
bis(2-Chloroethoxy)-methane	ND		10	ug/L
2,4-Dichlorophenol	ND		10	ug/L
1,2,4-Trichlorobenzene	ND		10	ug/L
Naphthalene	ND		10	ug/L
4-Chloroaniline	ND		10	ug/L
Hexachlorobutadiene	ND		10	ug/L
4-Chloro-3-methylphenol	ND		10	ug/L
2-Methylnaphthalene	ND		10	ug/L
Hexachlorocyclopentadiene	ND		50	ug/L
2,4,6-Trichlorophenol	ND		10	ug/L
2,4,5-Trichlorophenol	ND		50	ug/L
2-Chloronaphthalene	ND		10	ug/L
2-Nitroaniline	ND		50	ug/L
Dimethyl phthalate	ND		10	ug/L
Acenaphthylene	ND		10	ug/L
3-Nitroaniline	ND		50	ug/L
Acenaphthene	ND		10	ug/L
2,4-Dinitrophenol	ND		50	ug/L
4-Nitrophenol	ND		50	ug/L
Dibenzofuran	ND		10	ug/L
2,4-Dinitrotoluene	ND		10	ug/L
2,6-Dinitrotoluene	ND		10	ug/L
Diethyl phthalate	ND		10	ug/L
1,2-Diphenylhydrazine	ND		50	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organic Compounds (cont.)
Appendix IX List
Method 8270

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-18-97
LAB ID: 127629-0001-SA
Matrix: AQUEOUS Sampled: 18 AUG 97 Received: 20 AUG 97
Authorized: 20 AUG 97 Prepared: 21 AUG 97 Analyzed: 21 AUG 97
Instrument: GC/MS-ME Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
4-Chlorophenyl phenyl ether	ND		10	ug/L
Fluorene	ND		10	ug/L
4-Nitroaniline	ND		50	ug/L
4,6-Dinitro-2-methylphenol	ND		50	ug/L
N-Nitrosodiphenylamine	ND		10	ug/L
4-Bromophenyl phenyl ether	ND		10	ug/L
Hexachlorobenzene	ND		10	ug/L
Phenanthrene	ND		10	ug/L
Anthracene	ND		10	ug/L
Di-n-butyl phthalate	ND		10	ug/L
Fluoranthene	ND		10	ug/L
Pyrene	ND		10	ug/L
Butyl benzyl phthalate	ND		10	ug/L
3,3'-Dichlorobenzidine	ND		50	ug/L
Benzo(a)anthracene	ND		10	ug/L
bis(2-Ethylhexyl)-phthalate	0.84	J	10	ug/L
Chrysene	ND		10	ug/L
Di-n-octyl phthalate	ND		10	ug/L
Benzo(b)fluoranthene	ND		10	ug/L
Benzo(k)fluoranthene	ND		10	ug/L
Benzo(a)pyrene	ND		10	ug/L
Indeno(1,2,3-c,d)pyrene	ND		10	ug/L
Dibenz(a,h)anthracene	ND		10	ug/L
Benzo(g,h,i)perylene	ND		10	ug/L
2-Picoline	ND		20	ug/L
Ethyl methanesulfonate	ND		10	ug/L
Acetophenone	ND		10	ug/L
N-Nitrosopiperidine	ND		10	ug/L
a,a-Dimethylphenethyl-amine	ND		50	ug/L
2,6-Dichlorophenol	ND		10	ug/L
N-Nitroso-di-n-butylamine	ND		10	ug/L
1,2,4,5-Tetrachloro-benzene	ND		10	ug/L
Pentachlorobenzene	ND		10	ug/L
1-Naphthylamine	ND		10	ug/L
2-Naphthylamine	ND		10	ug/L
2,3,4,6-Tetrachlorophenol	ND		50	ug/L
Phenacetin	ND		20	ug/L
4-Aminobiphenyl	ND		50	ug/L
Pronamide	ND		20	ug/L
Pentachloronitrobenzene	ND		50	ug/L
p-Dimethylaminoazobenzene	ND		20	ug/L
7,12-Dimethylbenz(a)-anthracene	ND		20	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

(cont.)

Semivolatile Organic Compounds
Appendix IX List
Method 8270

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 8-18-97		
LAB ID:	127629-0001-SA		
Matrix:	AQUEOUS	Sampled: 18 AUG 97	Received: 20 AUG 97
Authorized:	20 AUG 97	Prepared: 21 AUG 97	Analyzed: 21 AUG 97
Instrument:	GC/MS-ME	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Benzidine	ND		100	ug/L
1-Chloronaphthalene	ND		10	ug/L
Dibenz(a,j)acridine	ND		20	ug/L

Surrogate	Recovery		Acceptable Range
2-Fluorophenol	39	%	21 - 100
Phenol-d5	22	%	10 - 94
Nitrobenzene-d5	64	%	34 - 114
2-Fluorobiphenyl	60	%	43 - 116
2,4,6-Tribromophenol	70	%	10 - 123
Terphenyl-d14	53	%	33 - 141

ND = Not Detected

PRELIMINARY DATA
PENDING QC, FINAL REVIEW AND APPROVAL

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-18-97
LAB ID: 127629-0001-SA
Matrix: AQUEOUS
Authorized: 20 AUG 97
Instrument: GC/MS-MA

Sampled: 18 AUG 97
Prepared: 21 AUG 97
Prep Method: SW3510

Received: 20 AUG 97
Analyzed: 28 AUG 97
Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

= Not Detected

METALS
(Water)

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-28-97
LAB ID: 127823-0001-SA
Matrix: AQUEOUS — Sampled: 28 AUG 97 — Received: 29 AUG 97
Authorized: 29 AUG 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	0.0044	J	1.0	0.010	mg/L	6010A	02 SEP 97	02 SEP 97
Beryllium	0.0013	JB	1.0	0.0050	mg/L	6010A	02 SEP 97	02 SEP 97
Cadmium	ND		1.0	0.0020	mg/L	6010A	02 SEP 97	02 SEP 97
Manganese	0.27		1.0	0.015	mg/L	6010A	02 SEP 97	02 SEP 97
Mercury	ND		1.0	0.00020	mg/L	SW7470	02 SEP 97	02 SEP 97
Selenium	ND		1.0	0.0050	mg/L	6010A	02 SEP 97	02 SEP 97
Thallium	ND		1.0	0.010	mg/L	6010A	02 SEP 97	02 SEP 97
Zinc	0.021	B	1.0	0.020	mg/L	6010A	02 SEP 97	02 SEP 97

B = Compound is also detected in the blank.
J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

GENERAL INORGANICS

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-28-97
LAB ID: 127823-0001-SA
Matrix: AQUEOUS — Sampled: 28 AUG 97 — Received: 29 AUG 97
Authorized: 29 AUG 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
pH	8.1		1.0	NA	units	150.1	NA	29 AUG 97
Total Suspended Solids	ND		1.0	10.0	mg/L	E160.2	NA	29 AUG 97

ND = Not Detected

Volatile Organic Compounds
Method SW8260A

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 8-28-97		
LAB ID:	127823-0001-SA		
Matrix:	AQUEOUS	Sampled: 28 AUG 97	Received: 29 AUG 97
Authorized:	29 AUG 97	Prepared: 29 AUG 97	Analyzed: 29 AUG 97
Instrument:	GC/MS-MF	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Benzene	0.75	J	1.0	ug/L
Bromobenzene	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Bromomethane	0.11	J	2.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
Chloroethane	ND		2.0	ug/L
Chloroform	ND		1.0	ug/L
Chloromethane	0.33	J	2.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
Dichlorodifluoromethane	ND		2.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Isopropylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
Methylene chloride	0.24	J	5.0	ug/L
Naphthalene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Toluene	ND		1.0	ug/L

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Volatile Organic Compounds (cont.)
Method SW8260A

Client Name: Montgomery Watson Constructors, Inc.
Client ID: EFFLUENT 8-28-97
LAB ID: 127823-0001-SA
Matrix: AQUEOUS Sampled: 28 AUG 97 Received: 29 AUG 97
Authorized: 29 AUG 97 Prepared: 29 AUG 97 Analyzed: 29 AUG 97
Instrument: GC/MS-MF Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
1,2,3-Trichlorobenzene	0.20	J	1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Trichloroethene	0.54	J	1.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
Vinyl chloride	ND		2.0	ug/L
m- & p-Xylenes	ND		1.0	ug/L
o-Xylene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	97	%	80 - 120
Bromofluorobenzene	110	%	80 - 120

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

Semivolatile Organics
Selected Ion Monitoring
Method SW8270-SIM

Client Name:	Montgomery Watson Constructors, Inc.		
Client ID:	EFFLUENT 8-28-97		
LAB ID:	127823-0001-SA		
Matrix:	AQUEOUS	Sampled: 28 AUG 97	Received: 29 AUG 97
Authorized:	29 AUG 97	Prepared: 29 AUG 97	Analyzed: 04 SEP 97
Instrument:	GC/MS-MA	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Pentachlorophenol	ND		1.0	ug/L

ND = Not Detected