ATTACHMENT 12
EFFLUENT DATA REPORTS

9439743

CITY OF PASADENA

JOHN RAY HARRISON
MAYOR

January 10, 1991

U. S. Environmental Protection Agency
Water Management Division
Enforcement Branch (6W-E)
1445 Ross Avenue
Dallas, Texas 75202-2733

Re: NPDES Testing Requirements for City of Pasadena Wastewater Treatment Plants; Permit Nos. TX0047872, TX0063410, TX0047881

Dear Sir:

Enclosed are copies of test results for toxic pollutants of the influent and effluent from the three City wastewater treatment plants, as required in Appendix D.

These tests were conducted by Aer-Aqua Laboratories, Inc., of Houston, Texas, in compliance with the permit requirements for semi-annual testing.

If there are any questions concerning this, please call Mr. Richard Haynes, Wastewater Plants Supervisor, at (713) 477-5856.

Yours truly,

Jimmie D. Coker, P.E.
Director of Public Works

JDC/REH/ma

ENCLOSURES:

1 - Permit/CD
2 - AO & AO mail
3 - DMR's
4 - Vio. Sum. Log
5 - NCR
6 - Correspondence
7 - CRAS
Date Filed
Clerk's Inits.

P. O. BOX 672 ... 77501

04/24/2013 TCEQ

(713) 941-[illegible]

Ace-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

PO BOX [illegible] PASADENA TEXAS [illegible]

City of Pasadena
Dept. of Public Works
P.O. Box 672
Pasadena, TX 77501
Attn: Mr. Earl Goings

RECEIVED
JAN 1 8 [illegible]
[illegible]-EA

Received 12-7-90
Called [illegible]47
Marked [illegible] Effluent VINCE BAYOU STP - TX0063410

Parameter		Results µg/l	Time/Date/Analyst		APHA #
Antimony	<	50.	10:40 12-14	TR/LC	303A
Arsenic	<	10.	10:00 12-20	LD	307B
Beryllium	<	5.	3:00 12-17	LD	303C
Cadmium	<	2.5	10:15 12-14	TR/LT	303A
Chromium	<	5.	1:30 12-11	JG	303A
Copper		9.	3:00 12-13	LT	303A
Lead	<	5	10:40 12-11	JG	303A
Mercury	<	2.	8:15 12-13	LT	303F
Nickel		6.5	8:30 12-14	TR/LT	303A
Selenium	<	10.	1:30 12-20	LD	303E
Silver	<	2.5	9:30 12-11	JG	303A
Thallium	<	1.	9:00 12-27	JPF	
Zinc		35.	1:30 12-13	LT	303A
Cyanide	<	10.	9:20 12-10	LT	412D
Phenols		16.	1:30 12-10	LT	420 1

< = Less Than, > = Greater Than

* Page reference in APHA Standard Methods, 16th Edition, as specified in 40 CFR, Part 136.

Certification
12-28-90

(713) 741-2033

Aer-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

P.O. BOX 300527 • HOUSTON, TEXAS 77230

Report of Analysis-Volatile Organics

Report #: 17196 **Report Date:** 12/19/90

Sample Name: 61547

Parameter	Result	Units	Date Analyzed	Test Method
1,1,1-trichloroethane	< 5	µg/L	12/13/90	8260
1,1,2,2-tetrachloroethane	< 5	µg/L	12/13/90	8260
1,1,2-trichloroethane	< 5	µg/L	12/13/90	8260
1,1-dichloroethane	< 5	µg/L	12/13/90	8260
1,1-dichloroethene	< 5	µg/L	12/13/90	8260
1,2-dichlorobenzene	< 5	µg/L	12/13/90	8260
1,2-dichloroethane	< 5	µg/L	12/13/90	8260
1,2-dichloropropane	< 5	µg/L	12/13/90	8260
1,3-dichlorobenzene	< 5	µg/L	12/13/90	8260
1,4-dichlorobenzene	< 5	µg/L	12/13/90	8260
2-chloroethyl vinyl ether	< 5	µg/L	12/13/90	8260
Acrolein	< 100	µg/L	12/13/90	8260
Acrylonitrile	< 100	µg/L	12/13/90	8260
Benzene	< 5	µg/L	12/13/90	8260
Bromodichloromethane	< 5	µg/L	12/13/90	8260
Bromoform	< 5	µg/L	12/13/90	8260
Bromomethane	< 10	µg/L	12/13/90	8260
c-1,3-dichloropropene	< 5	µg/L	12/13/90	8260
Carbon tetrachloride	< 5	µg/L	12/13/90	8260
Chlorobenzene	< 5	µg/L	12/13/90	8260
Chloroethane	< 10	µg/L	12/13/90	8260
Chloroform	< 5	µg/L	12/13/90	8260
Chloromethane	< 10	µg/L	12/13/90	8260
Dibromochloromethane	< 5	µg/L	12/13/90	8260
Ethylbenzene	< 5	µg/L	12/13/90	8260
Methylene chloride	< 5	µg/L	12/13/90	8260
t-1,2-dichloroethene	< 5	µg/L	12/13/90	8260
t-1,3-dichloropropene	< 5	µg/L	12/13/90	8260
Tetrachloroethene	< 5	µg/L	12/13/90	8260
Toluene	17	µg/L	12/13/90	8260
Trichloroethene	< 5	µg/L	12/13/90	8260
Vinyl chloride	< 10	µg/L	12/13/90	8260

(713) 741-2033

Aer-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

P.O. BOX 300527 • HOUSTON, TEXAS 77230

Report of Analysis-Extractable Organics

Report #: 17196 **Report Date:** 12/19/90

Sample Name: 61547

Parameter	Result	Units	Date Analyzed	Test Method
1,2,4-trichlorobenzene	< 10	µg/L	12/17/90	8270
1,2-diphenylhydrazine	< 10	µg/L	12/17/90	8270
2,4,6-trichlorophenol	< 10	µg/L	12/17/90	8270
2,4-dichlorophenol	< 10	µg/L	12/17/90	8270
2,4-dimethylphenol	< 10	µg/L	12/17/90	8270
2,4-dinitrophenol	< 50	µg/L	12/17/90	8270
2,4-dinitrotoluene	< 10	µg/L	12/17/90	8270
2,6-dinitrotoluene	< 10	µg/L	12/17/90	8270
2-chloronaphthalene	< 10	µg/L	12/17/90	8270
2-chlorophenol	< 10	µg/L	12/17/90	8270
2-nitrophenol	< 10	µg/L	12/17/90	8270
3,3-dichlorobenzidine	< 20	µg/L	12/17/90	8270
4,4-DDD	< 10	µg/L	12/17/90	8270
4,4-DDE	< 10	µg/L	12/17/90	8270
4,4-DDT	< 10	µg/L	12/17/90	8270
4,6-dinitro-2-methylphenol	< 50	µg/L	12/17/90	8270
4-bromophenyl phenyl ether	< 10	µg/L	12/17/90	8270
4-chloro-3-methylphenol	< 20	µg/L	12/17/90	8270
4-chlorophenyl phenyl ether	< 10	µg/L	12/17/90	8270
4-nitrophenol	< 50	µg/L	12/17/90	8270
Acenaphthene	< 10	µg/L	12/17/90	8270
Acenaphthylene	< 10	µg/L	12/17/90	8270
Aldrin	< 10	µg/L	12/17/90	8270
alpha-BHC	< 10	µg/L	12/17/90	8270
Anthracene	< 10	µg/L	12/17/90	8270
Arochlor 1016	< 20	µg/L	12/17/90	8270
Arochlor 1221	< 20	µg/L	12/17/90	8270
Arochlor 1232	< 20	µg/L	12/17/90	8270
Arochlor 1242	< 20	µg/L	12/17/90	8270
Arochlor 1248	< 20	µg/L	12/17/90	8270
Arochlor 1254	< 20	µg/L	12/17/90	8270

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(713) 741-2033

Aer-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

P.O. BOX 300527 • HOUSTON, TEXAS 77230

Report of Analysis-Extractable Organics

Report #: 17196 **Report Date:** 12/19/90

Sample Name: 61547

Parameter	Result	Units	Date Analyzed	Test Method
Benzidine	< 50	µg/L	12/17/90	8270
Benzo(a)anthracene	< 10	µg/L	12/17/90	8270
Benzo(a)pyrene	< 10	µg/L	12/17/90	8270
Benzo(b)fluoranthene	< 10	µg/L	12/17/90	8270
Benzo(ghi)perylene	< 10	µg/L	12/17/90	8270
Benzo(k)fluoranthene	< 10	µg/L	12/17/90	8270
beta-BHC	< 10	µg/L	12/17/90	8270
bis(2-chloroethoxy)methane	< 10	µg/L	12/17/90	8270
bis(2-chloroethyl)ether	< 10	µg/L	12/17/90	8270
bis(2-chloroisopropyl)ether	< 10	µg/L	12/17/90	8270
bis(2-ethylhexyl)phthalate	< 10	µg/L	12/17/90	8270
Butyl benzyl phthalate	< 10	µg/L	12/17/90	8270
Chlordane	< 50	µg/L	12/17/90	8270
Chrysene	< 10	µg/L	12/17/90	8270
delta-BHC	< 10	µg/L	12/17/90	8270
Dibenz(a,h)anthracene	< 10	µg/L	12/17/90	8270
Dibutylphthalate	< 10	µg/L	12/17/90	8270
Dieldrin	< 10	µg/L	12/17/90	8270
Diethylphthalate	< 10	µg/L	12/17/90	8270
Dimethylphthalate	< 10	µg/L	12/17/90	8270
Dioctylphthalate	< 10	µg/L	12/17/90	8270
Endosulfan I	< 10	µg/L	12/17/90	8270
Endosulfan II	< 10	µg/L	12/17/90	8270
Endosulfan sulfate	< 10	µg/L	12/17/90	8270
Endrin	< 10	µg/L	12/17/90	8270
Endrin aldehyde	< 10	µg/L	12/17/90	8270
Fluoranthene	< 10	µg/L	12/17/90	8270
Fluorene	< 10	µg/L	12/17/90	8270
Heptachlor	< 10	µg/L	12/17/90	8270
Heptachlor epoxide	< 10	µg/L	12/17/90	8270
Hexachlorobenzene	< 10	µg/L	12/17/90	8270
Hexachlorobutadiene	< 10	µg/L	12/17/90	8270
Hexachlorocyclopentadiene	< 10	µg/L	12/17/90	8270
Hexachloroethane	< 10	µg/L	12/17/90	8270

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P.O. BOX 300627 • HOUSTON, TEXAS 77230

Report of Analysis-Extractable Organics

Report #: 17196 Report Date: 12/19/90

Sample Name: 61547

Parameter	Result	Units	Date Analyzed	Test Method
Indeno(1,2,3-cd)pyrene	< 10	µg/L	12/17/90	8270
Isophorone	< 10	µg/L	12/17/90	8270
Lindane	< 10	µg/L	12/17/90	8270
N-nitrosodimethylamine	< 10	µg/L	12/17/90	8270
N-nitrosodiphenylamine	< 10	µg/L	12/17/90	8270
N-nitrosodipropylamine	< 10	µg/L	12/17/90	8270
Naphthalene	< 10	µg/L	12/17/90	8270
Nitrobenzene	< 10	µg/L	12/17/90	8270
Pentachlorophenol	< 50	µg/L	12/17/90	8270
Phenanthrene	< 10	µg/L	12/17/90	8270
Phenol	< 10	µg/L	12/17/90	8270
Pyrene	< 10	µg/L	12/17/90	8270
Toxaphene	< 10	µg/L	12/17/90	8270

04/24/2013 TCEQ

Aer-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

P.O. BOX [illegible] HOUSTON TEXAS [illegible]

City of Pasadena
Dept. of Public Works
P.O. Box 672
Pasadena, TX 77501
Attn: Mr. Earl Goings

RECEIVED
JAN 18 [illegible]
6\V-EA

Received: 12-7-90
Coded: 61546
Marked: VB Influent VINCE BAYOU STP - TX0063410

Parameter	Results µg/l	Time/Date/Analyst	APHA # *
Antimony	< 50.	10:40 12-14 TR/Lt	303A
Arsenic	< 10.	10:00 12-20 LD	307B
Beryllium	< 5.	3:00 12-17 LD	303C
Cadmium	< 2.5	10:15 12-14 TR/LT	303A
Chromium	< 5.	1:30 12-11 JG	303A
Copper	14.	3:00 12-13 LT	303A
Lead	< 5.	10:40 12-11 JG	303A
Mercury	< 2.	8:15 12-13 LT	303F
Nickel	8.	8:30 12-14 TR/LT	303A
Selenium	< 10.	1:30 12-20 LD	303E
Silver	< 2.5	9:30 12-11 JG	303A
Thallium	< 1.	9:00 12-27 JPF	
Zinc	65.	1:30 12-13 LT	303A
Cyanide	< 10.	9:20 12-10 LT	412D
Phenols	52.	1:30 12-10 LT	420.1

< = Less Than, > = Greater Than

* Page reference in APHA Standard Methods, 16th Edition, as specified in 40 CFR, Part 136.3.

Certification
12-28-90

04/24/2013 TCEQ

(713) 741-2033

Aer-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

P.O. BOX 300527 • HOUSTON, TEXAS 77230

Report of Analysis-Volatile Organics

Report #: 17195 **Report Date:** 12/19/90

Sample Name: 61546

Parameter	Result	Units	Date Analyzed	Test Method
1,1,1-trichloroethane	< 5	µg/L	12/13/90	8260
1,1,2,2-tetrachloroethane	< 5	µg/L	12/13/90	8260
1,1,2-trichloroethane	< 5	µg/L	12/13/90	8260
1,1-dichloroethane	< 5	µg/L	12/13/90	8260
1,1-dichloroethene	< 5	µg/L	12/13/90	8260
1,2-dichlorobenzene	< 5	µg/L	12/13/90	8260
1,2-dichloroethane	< 5	µg/L	12/13/90	8260
1,2-dichloropropane	< 5	µg/L	12/13/90	8260
1,3-dichlorobenzene	7.0	µg/L	12/13/90	8260
1,4-dichlorobenzene	< 5	µg/L	12/13/90	8260
2-chloroethyl vinyl ether	< 5	µg/L	12/13/90	8260
Acrolein	< 100	µg/L	12/13/90	8260
Acrylonitrile	< 100	µg/L	12/13/90	8260
Benzene	< 5	µg/L	12/13/90	8260
Bromodichloromethane	< 5	µg/L	12/13/90	8260
Bromoform	< 5	µg/L	12/13/90	8260
Bromomethane	< 10	µg/L	12/13/90	8260
c-1,3-dichloropropene	< 5	µg/L	12/13/90	8260
Carbon tetrachloride	< 5	µg/L	12/13/90	8260
Chlorobenzene	< 5	µg/L	12/13/90	8260
Chloroethane	< 10	µg/L	12/13/90	8260
Chloroform	< 5	µg/L	12/13/90	8260
Chloromethane	< 10	µg/L	12/13/90	8260
Dibromochloromethane	< 5	µg/L	12/13/90	8260
Ethylbenzene	< 5	µg/L	12/13/90	8260
Methylene chloride	< 5	µg/L	12/13/90	8260
t-1,2-dichloroethene	< 5	µg/L	12/13/90	8260
t-1,3-dichloropropene	< 5	µg/L	12/13/90	8260
Tetrachloroethene	< 5	µg/L	12/13/90	8260
Toluene	17	µg/L	12/13/90	8260
Trichloroethene	< 5	µg/L	12/13/90	8260
Vinyl chloride	< 10	µg/L	12/13/90	8260

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(713) 741-2033

Aer-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

P.O. BOX 300527 • HOUSTON, TEXAS 77230

Report of Analysis-Extractable Organics

Report #: 17195 **Report Date:** 12/19/90

Sample Name: 61546

Parameter	Result	Units	Date Analyzed	Test Method
1,2,4-trichlorobenzene	< 10	µg/L	12/17/90	8270
1,2-diphenylhydrazine	< 10	µg/L	12/17/90	8270
2,4,6-trichlorophenol	< 10	µg/L	12/17/90	8270
2,4-dichlorophenol	< 10	µg/L	12/17/90	8270
2,4-dimethylphenol	< 10	µg/L	12/17/90	8270
2,4-dinitrophenol	< 50	µg/L	12/17/90	8270
2,4-dinitrotoluene	< 10	µg/L	12/17/90	8270
2,6-dinitrotoluene	< 10	µg/L	12/17/90	8270
2-chloronaphthalene	< 10	µg/L	12/17/90	8270
2-chlorophenol	< 10	µg/L	12/17/90	8270
2-nitrophenol	< 10	µg/L	12/17/90	8270
3,3-dichlorobenzidine	< 20	µg/L	12/17/90	8270
4,4-DDD	< 10	µg/L	12/17/90	8270
4,4-DDE	< 10	µg/L	12/17/90	8270
4,4-DDT	< 10	µg/L	12/17/90	8270
4,6-dinitro-2-methylphenol	< 50	µg/L	12/17/90	8270
4-bromophenyl phenyl ether	< 10	µg/L	12/17/90	8270
4-chloro-3-methylphenol	< 20	µg/L	12/17/90	8270
4-chlorophenyl phenyl ether	< 10	µg/L	12/17/90	8270
4-nitrophenol	< 50	µg/L	12/17/90	8270
Acenaphthene	< 10	µg/L	12/17/90	8270
Acenaphthylene	< 10	µg/L	12/17/90	8270
Aldrin	< 10	µg/L	12/17/90	8270
alpha-BHC	< 10	µg/L	12/17/90	8270
Anthracene	< 10	µg/L	12/17/90	8270
Arochlor 1016	< 20	µg/L	12/17/90	8270
Arochlor 1221	< 20	µg/L	12/17/90	8270
Arochlor 1232	< 20	µg/L	12/17/90	8270
Arochlor 1242	< 20	µg/L	12/17/90	8270
Arochlor 1248	< 20	µg/L	12/17/90	8270
Arochlor 1254	< 20	µg/L	12/17/90	8270
Arochlor 1260	< 20	µg/L	12/17/90	8270

04/24/2013 TCEQ

(713) 741-2033

Aer-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

P.O. BOX 300527 • HOUSTON, TEXAS 77230

Report of Analysis-Extractable Organics

Report #: 17195 **Report Date:** 12/19/90

Sample Name: 61546

Parameter	Result	Units	Date Analyzed	Test Method
Benzidine	< 50	µg/L	12/17/90	8270
Benzo(a)anthracene	< 10	µg/L	12/17/90	8270
Benzo(a)pyrene	< 10	µg/L	12/17/90	8270
Benzo(b)fluoranthene	< 10	µg/L	12/17/90	8270
Benzo(ghi)perylene	< 10	µg/L	12/17/90	8270
Benzo(k)fluoranthene	< 10	µg/L	12/17/90	8270
beta-BHC	< 10	µg/L	12/17/90	8270
bis(2-chloroethoxy)methane	< 10	µg/L	12/17/90	8270
bis(2-chloroethyl)ether	< 10	µg/L	12/17/90	8270
bis(2-chloroisopropyl)ether	< 10	µg/L	12/17/90	8270
bis(2-ethylhexyl)phthalate	< 10	µg/L	12/17/90	8270
Butyl benzyl phthalate	< 10	µg/L	12/17/90	8270
Chlordane	< 50	µg/L	12/17/90	8270
Chrysene	< 10	µg/L	12/17/90	8270
delta-BHC	< 10	µg/L	12/17/90	8270
Dibenz(a,h)anthracene	< 10	µg/L	12/17/90	8270
Dibutylphthalate	< 10	µg/L	12/17/90	8270
Dieldrin	< 10	µg/L	12/17/90	8270
Diethylphthalate	< 10	µg/L	12/17/90	8270
Dimethylphthalate	< 10	µg/L	12/17/90	8270
Dioctylphthalate	< 10	µg/L	12/17/90	8270
Endosulfan I	< 10	µg/L	12/17/90	8270
Endosulfan II	< 10	µg/L	12/17/90	8270
Endosulfan sulfate	< 10	µg/L	12/17/90	8270
Endrin	< 10	µg/L	12/17/90	8270
Endrin aldehyde	< 10	µg/L	12/17/90	8270
Fluoranthene	< 10	µg/L	12/17/90	8270
Fluorene	< 10	µg/L	12/17/90	8270
Heptachlor	< 10	µg/L	12/17/90	8270
Heptachlor epoxide	< 10	µg/L	12/17/90	8270
Hexachlorobenzene	< 10	µg/L	12/17/90	8270
Hexachlorobutadiene	< 10	µg/L	12/17/90	8270
Hexachlorocyclopentadiene	< 10	µg/L	12/17/90	8270
Hexachloroethane	< 10	µg/L	12/17/90	8270

04/24/2013 TCEQ

(713) 741-2033

Aer-Aqua Laboratories, Inc.

ACCREDITED INDUSTRIAL HYGIENISTS

P.O. BOX 30597 • HOUSTON, TEXAS 77230

Report of Analysis-Extractable Organics

Report #: 17195 **Report Date:** 12/19/90

Sample Name: 61546

Parameter	Result	Units	Date Analyzed	Test Method
Indeno(1,2,3-cd)pyrene	< 10	µg/L	12/17/90	8270
Isophorone	< 10	µg/L	12/17/90	8270
Lindane	< 10	µg/L	12/17/90	8270
N-nitrosodimethylamine	< 10	µg/L	12/17/90	8270
N-nitrosodiphenylamine	< 10	µg/L	12/17/90	8270
N-nitrosodipropylamine	< 10	µg/L	12/17/90	8270
Naphthalene	< 10	µg/L	12/17/90	8270
Nitrobenzene	< 10	µg/L	12/17/90	8270
Pentachlorophenol	< 50	µg/L	12/17/90	8270
Phenanthrene	< 10	µg/L	12/17/90	8270
Phenol	< 10	µg/L	12/17/90	8270
Pyrene	< 10	µg/L	12/17/90	8270
Toxaphene	< 10	µg/L	12/17/90	8270

04/24/2013 TCEQ

ST Environmental Services, Inc.

[illegible] PASADENA FREEWAY
PASADENA
TEXAS [illegible]

TELEPHONE [illegible]
TELEFAX [illegible]

Feb 10, 1998

Executive Director
TNRCC
Watershed Management Division
Wastewater Permits Section
Applications Team (MC 148)
P.O. Box 13087
Austin, TX 78711-3087

RE: Permit Renewal Application
City of Pasadena - Vince Bayou WWTP
TNRCC No. 10053-005

Enclosed is the completed application for the renewal of the above referenced TNRCC permit.

Please contact me at (713) 477-5856 if you have any questions.

Sincerely,

ST ENVIRONMENTAL SERVICES

Richard Neely
QA/QC Coordinator
Pasadena Project

xc: Bert Simmons - Director of Public Works
Lee Clark - City Attorney

RECEIVED
FEB 17 1998

Mar review

EXECUTIVE DIRECTOR
TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
ATTN: Agriculture & Watershed Management Division
Wastewater Permits Section (MC 148)
Applications Team
P.O. Box 13087
Austin, Texas 78711-3087
(512)239-4433
(512)239-4430 FAX

(Revised February 1996)

FOR COMMISSION USE ONLY

Admin Review Staff _____
Application Fee Receipt No. _____
Admin Complete Date _____
County Harris
Region 12
Segment 1007
Expiration Date 3/25/98
Proposed/Current Permit # 10053-005

APPLICATION FOR PERMIT TO DISCHARGE, DEPOSIT OR DISPOSE OF WASTE(S) INTO OR ADJACENT TO WATER IN THE STATE

1. Applicant(s): City of Pasadena - Vince Bayou WWTP (WQ0010053-005)
   * Corporation or Other Legal Entity
   **Individual

   Address: P.O. Box 672
   (Permanent Mailing Address to be used on Permit)

   City: Pasadena State: Texas Zip: 77501

   Telephone Number: (713) 477-1511

*Corporation or Other Legal Entity: If the application is submitted on behalf of a corporation, identify the charter number or certificate of authority registration number on file with the Texas Secretary of State. Identify the Tax Identification Number as recorded with the State Comptroller of Texas.

N/A	N/A
Charter Number (on file with the Texas Secretary of State)	Tax Identification Number or Social Security Identification Number

If the application is submitted on behalf of an entity other than an individual and is not registered or chartered with the Texas Secretary of State, include a copy of the agreement which forms the entity.

**Individual: Pursuant to the Texas Water Code 26.027(b), please supply the following information when the applicant is an individual:

Applicant(s): N/A
(Full Legal Name)

Business: _____
(Assumed Business or Professional name - Chapter 36, Business & Commerce Code)

Physical Address of Individual: _____
(Street Address of Place of residence)

City: _____ State: _____ Zip: _____

Sex: _____ State Identification No.: _____ Date of Birth: _____
(Driver's License or Personal ID Certificate)

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m. Do you plan to install ground water monitoring wells or lysimeters around the land application site?

_____ Yes _____ No.

If yes, submit a map indicating the location, designation, and depth of each monitor well.

n. Provide the dimensions (water surface area, water depth and freeboard) of any effluent storage/holding ponds.

o. Describe the effluent storage/holding pond liner (e.g., compacted clay, synthetic liner, other).

p. For waste disposal activities subject to 30 TAC Chapter 313, Edwards Aquifer Rules, provide a report that describes the surface geologic units present in the proposed land application site and that identifies the location and extent of any significant recharge areas in the land application site.

IF ANY OF THE EXISTING AND/OR PROPOSED PHASES OF THE FACILITY ARE DESIGNED FOR A FLOW GREATER THAN 1 (ONE) MILLION GALLONS PER DAY, OR THE FACILITY HAS AN APPROVED PRETREATMENT PROGRAM, COMPLETE ITEMS 9, 10, AND 11; IF NOT, GO DIRECTLY TO ITEM 12.

9. Analyze for the listed constituents as indicated below. Print the results in the following table. Attach copies of all laboratory sheets for all tests.

All sampling and laboratory testing methods should be performed in accordance with 30 TAC Chapter 319, General Regulations Incorporated into Permits. Test methods shall be sensitive enough to detect the above constituents at the Minimum Analytical Level (MAL). These values are subject to change and you may wish to contact the TNRCC Municipal Permitting Team at (512) 239-4433 before requesting these tests. Failure to use tests capable of meeting the MAL may compromise the analyses and retesting may be required.

All testing shall conform to EPA approved methodologies for sample collection, preservation, analysis and detection levels. See ATTACHMENT 4 for MAL and suggested method of analyses information for these pollutants.

(ATTACHMENT A)	CONCENTRATION (ug/l)*		NUMBER OF	MAL
POLLUTANT	AVG.	MAX.	SAMPLES	(ug/l)
Aldrin	< 0.04		1	0.05
α-hexachlorocyclohexane	< 0.02		1	0.05
Aluminum	101.00		1	30
Arsenic	< 4.00		1	10
Barium	22.00		1	10
Benzene	< 5.00		1	10
Benzidine	<50.00		1	50
β-hexachlorocyclohexane	< 0.04		1	0.05
Benzo(a)anthracene	<10.00		1	10
Benzo(a)pyrene	<10.00		1	10
Cadmium	< 0.50		1	1
Carbon Tetrachloride	< 5.00		1	10
Carbaryl	< 5.00		1	5
Chlordane	< 0.10		1	0.15
Chlorobenzene	< 5.00		1	10
Chloroform	< 5.00		1	10
Chlorpyrifos	< 0.02		1	0.05

POLLUTANT	CONCENTRATION (ug/l)* AVG.	MAX.	NUMBER OF SAMPLES	MAL (ug/l)
Chromium (Total)	≤ 5.00		1	10
Chromium (Hex)	≤10.00		1	10
Chromium (Tri)	≤10.00		1	(**)
Copper	≤10.00		1	10
Chrysene	≤10.00		1	10
Cresols	≤10.00		1	(***)
Cyanide	≤10.00		1	20
4,4'-DDD	≤ 0.10		1	0.1
4,4'-DDE	≤ 0.04		1	0.1
4,4'-DDT	≤ 0.04		1	0.1
2,4-D	≤ 5.00		1	10
Demeton (O and S)	≤ 0.02		1	0.2
Diazinon	≤ 0.02		1	0.5
Dibromochloromethane	≤ 5.00		1	10
1,2-Dibromoethane	≤ 2.00		1	2
Dieldrin	≤ 0.02		1	0.1
1,4-Dichlorobenzene (p-Dichlorobenzene)	≤10.00		1	10
1,2-Dichloroethane	≤ 5.00		1	10
1,1-Dichloroethylene	≤ 5.00		1	10
Dicofol	≤ 0.10		1	20
Endosulfan I (alpha)	≤ 0.04		1	0.1
Endosulfan II (beta)	≤ 0.10		1	0.1
Endosulfan Sulfate	≤ 0.10		1	0.1
Endrin	≤ 0.04		1	0.1
Fluoride	700.00		1	500
Guthion	≤ 0.02		1	0.1
Heptachlor	≤ 0.03		1	0.05
Heptachlor Epoxide	≤ 0.04		1	1
γ-Hexachlorocyclohexane (Lindane)	≤ 0.05		1	0.05
Hexachlorobenzene	≤10.00		1	10
Hexachlorobutadiene	≤10.00		1	10
Hexachloroethane	≤10.00		1	20
Hexachlorophene	≤10.00		1	10
Lead	≤ 5.00		1	5
Malathion	≤ 0.02		1	0.1
Mercury	≤ 2.00		1	0.2
Methoxychlor	≤ 0.06		1	2
Methyl Ethyl Ketone	≤50.00		1	50
Mirex	≤ 0.10		1	0.2
Nickel	≤ 5.00		1	10
Nitrate-Nitrogen	11.200		1	1000
Nitrobenzene	≤10.00		1	10
n-Nitrosodiethylamine	≤10.00		1	20
n-Nitroso-di-n-Butylamine	≤10.00		1	20
Parathion (ethyl)	≤ 0.02		1	0.1
Pentachlorobenzene	≤10.00		1	20
Pentachlorophenol	≤50.00		1	50
Phenanthrene	≤10.00		1	10

POLLUTANT	CONCENTRATION (µg/l)* AVG.	MAX.	NUMBER OF SAMPLES	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*****)	< 0.05		1	1
Pyridine	<10.00		1	20
Selenium	< 5.00		1	10
Silver	< 2.00		1	2
1,2,4,5-Tetrachlorobenzene	<10.00		1	20
Tetrachloroethylene	< 5.00		1	10
Toxaphene	< 1.00		1	5
2,4,5-TP (Silvex)	< 1.00		1	2
Tributyltin	N/A			0.010
Trichloroethylene	< 5.00		1	10
1,1,1-Trichloroethane	< 5.00		1	10
2,4,5-Trichlorophenol	<10.00		1	50
TTHM (Total Trihalomethanes)			1	10
Vinyl Chloride	<10.00		1	10
Zinc	28.00		1	5

(*) **Indicate units if different from µg/l. Test methods must be sensitive enough to quantify the constituents at the Minimum Analytical Level (MAL) specified in µg/l.**

(**) Trivalent Chromium (Cr) determined by subtracting Hexavalent Cr from Total Cr.

(***) MAL's for Cresols:
- p-Chloro-m-Cresol - 10 µg/l
- 4,6-Dinitro-o-Cresol - 50 ug/l
- p-Cresol - 10 µg/l

(****) Cyanide, Amenable to Chlorination or Weak-Acid Dissociable

(*****) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

10. For applicants discharging into waters of the state, the Toxicity Testing Section in ATTACHMENT 3 shall be completed by the following: (ATTACHMENT B)

    a. Dischargers with a design flow of 1.0 MGD or greater, or

    b. For phased facilities, dischargers that anticipate operation of a phase with a design flow of 1.0 MGD or greater during the next five years of operation, or

    c. Dischargers that have an approved pretreatment program.

    NOTE: Applicants which dispose of all of their effluent using land disposal are not required to complete ATTACHMENTS 2 & 3.

11. All Publicly Owned Treatment Works (POTWs) with an approved pretreatment program shall provide a written evaluation of the need to revise the POTW's local limits. See 40 CFR Section 122.21(j)(4). N/A

Report Summary

ST Environmental Laboratory, Inc.

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Tel 281-578-5688
Fax 281-578-5686

Mr. Earl Goings, Manager
Pasadena-Vince Bayou

3512 East Pasadena Freeway

Psadena, TX 77503

Attachment A
(item 9, page 9, Tech Rep)

Report Number : 12843

Number of Samples included in report	1	Job Received	10/21/97
Number of test results included in report	154	Analysis Commenced:	10/21/97

Signed: [illegible] Name Date: 12/18/97

The instruments used during the analyses were calibrated using traceable standards, and the instruments were operated within acceptable limits on the dates of analyses, unless otherwise stated

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Sample Source : Pasadena-Vince Bayou Sample Date : 10/21/97 Sampler ID : BY

Sample	Description	Date	Time	Analyte	Result	Method	Analyst	Start Date/Time
120164	Pasadena-VB Plant Effluent	10/21/97	700	Vinyl Chloride ug/l	<10	624	MAX	1997/10/22 00:00
		10/21/97	700	Phenol ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Methyl Chloride ug/l	<10	624	MAX	1997/10/22 00:00
		10/21/97	700	2-dinitrophenol ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	4,6-Dinitro-o-Cresol ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	2,4-dinitrophenol ug/l	<50	625	MAX	1997/10/31 00:00
		10/21/97	700	2,4-dichlorophenol ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Methyl Bromide ug/l	<10	624	MAX	1997/10/22 00:00
		10/21/97	700	2-chlorophenol ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Pentachlorophenol ug/l	<50	625	MAX	1997/10/31 00:00
		10/21/97	700	Trichloroethylene ug/l	<5	6241	MAX	1997/10/22 00:00
		10/21/97	700	1,1,2-trichloroethane ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	1,1,1-trichloroethane ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	1, 2-trans-dichloroethylene ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	Toluene ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	Tetrachloroethylene ug/l	<5	624	MAX	1997/10/31 00:00
		10/21/97	700	1,1 2,2-tetrachloroethane ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	2,4,5-trichlorophenol ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	4-chloro-3-methylphenol ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Heptachlor Epoxide ug/l	<0.04	608	MAX	1997/10/24 00:00
		10/21/97	700	Toxaphene ug/l	<1.00	608	MAX	1997/10/24 00:00
		10/21/97	700	Pick Up Charge Each	1		PF	1997/10/21 07:25
		10/21/97	700	PCB 1260 ug/l	<0.05	608	MAX	1997/10/24 00:00
		10/21/97	700	PCB 1248 ug/l	<0.05	608	MAX	1997/10/24 00:00
		10/21/97	700	PCB 1232 ug/l	<0.05	608	MAX	1997/10/24 00:00
		10/21/97	700	PCB 1221 ug/l	<0.05	608	MAX	1997/10/24 00:00
		10/21/97	700	4-nitrophenol ug/l	<50		MAX	1997/10/31 00:00
		10/21/97	700	PCB 1242 ug/l	<0.05	608	MAX	1997/10/24 00:00
		10/21/97	700	2,4,6-Trichlorophenol ug/l	<10		MAX	1997/10/31 00:00

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ple Source : Pasadena-Vince Bayou Sample Date : 10/21/97 Sampler ID : BY

mple	Description	Date	Time	Analyte	Result	Method	Analyst	Start Date/Time
20164	Pasadena-VB Plant Effluent	10/21/97	700	Heptachlor ug/l	<0.03	608	MAX	1997/10/24 00:00
		10/21/97	700	Endrin ug/l	<0.04	608	MAX	1997/10/24 00:00
		10/21/97	700	Endosulfan Sulfate ug/l	<0.10	608	MAX	1997/10/24 00:00
		10/21/97	700	Endosulfan II (Beta) ug/l	<0.10	608	MAX	1997/10/24 00:00
		10/21/97	700	Endosulfan I (Alpha) ug/l	<0.04	608	MAX	1997/10/24 00:00
		10/21/97	700	Dieldrin ug/l	<0.02	608	MAX	1997/10/24 00:00
		10/21/97	700	Chlordane ug/l	<0.10	608	MAX	1997/10/24 00:00
		10/21/97	700	Aldrin ug/l	<0.04	608	MAX	1997/10/24 00:00
		10/21/97	700	PCB 1254 ug/l	<0.05	608	MAX	1997/10/24 00:00
		10/21/97	700	Chromium, total as Cr ug/l	<5	218.2	MAX	1997/10/31 00:00
		10/21/97	700	Methylene Chloride ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	Chromium, trivalent as Cr ug/l	<10	Calc	MAX	1997/10/21 00:00
		10/21/97	700	Chromium, hexavalent as Cr ug/l	<10	3500-CrD	MAX	1997/10/21 00:00
		10/21/97	700	Cadmium, total as Cd ug/l	<0.5	213.2	MAX	1997/10/31 00:00
		10/21/97	700	Antimony, total as Sb ug/l	<4	204.2	MAX	1997/10/31 00:00
		10/21/97	700	Zinc, total as Zn ug/l	28	289.2	MAX	1997/10/31 00:00
		10/21/97	700	Trivalent Chromium ug/l	<5		MAX	1997/10/16 00:00
		10/21/97	700	Copper, total as Cu ug/l	<10	220.2	MAX	1997/10/31 00:00
		10/21/97	700	Cyanide, Total ug/l	<10	335.2	MAX	1997/10/29 00:00
		10/21/97	700	Lead, total as Pb ug/l	<5	239.2	MAX	1997/10/31 00:00
		10/21/97	700	Thallium, total as Tl ug/l	<2	279.2	MAX	1997/10/31 00:00
		10/21/97	700	Beryllium, total as Be ug/l	<0.25	210.2	MAX	1997/10/31 00:00
		10/21/97	700	Barium, total as Ba ug/l	22.9	208.1	MAX	1997/10/31 00:00
		10/21/97	700	Selenium, total as Se ug/l	<5	270.2	MAX	1997/11/07 00:00
		10/21/97	700	Silver, total as Ag ug/l	<2	272.2	MAX	1997/10/31 00:00
		10/21/97	700	Arsenic, total as As ug/l	<4	206.2	MAX	1997/11/07 00:00
		10/21/97	700	Aluminum, total as Al ug/l	101	202.1	MAX	1997/10/31 00:00
		10/21/97	700	Nickel, total as Ni ug/l	<5	249.2	MAX	1997/10/31 00:00
		10/21/97	700	2-chloroethyl Vinyl Ether ug/l	<10	624	MAX	1997/10/22 00:00

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Sample Source : Pasadena-Vince Bayou **Sample Date :** 10/21/97 **Sampler ID :** BY

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Sample	Description	Date	Time	Analyte	Result	Method	Analyst	Start Date/Time
120164	Pasadena-VB Plant Effluent	10/21/97	700	Ethyl Benzene ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	1,3-dichloropropene ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	1,2-dichloropropane ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	1,1-Dichloroethylene ug/L	<5	624	MAX	1997/10/31 00:00
		10/21/97	700	1,2-Dichloroethane mg/l	<5		MAX	1997/10/31 00:00
		10/21/97	700	1,1-dichloroethane ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	Permit Renewal Text	1		MAX	1997/11/18 00:00
		10/21/97	700	Chloroform ug/l	[illegible]	624	MAX	1997/10/22 00:00
		10/21/97	700	DDD ug/l	<0.10	608	MAX	1997/10/29 00:00
		10/21/97	700	Chloroethane ug/l	<10	624	MAX	1997/10/22 00:00
		10/21/97	700	Chlorobenzene ug/l	<5	624	MAX	1997/10/31 00:00
		10/21/97	700	Carbon Tetrachloride ug/l	<5	624	MAX	1997/10/31 00:00
		10/21/97	700	Bromoform ug/l	<5	624	MAX	1997/10/22 00:00
		10/21/97	700	Benzene ug/l	<5	624	MAX	1997/10/31 00:00
		10/21/97	700	Acrylonitrile ug/l	<50	624	MAX	1997/10/22 00:00
		10/21/97	700	Acrolein ug/l	<50	624	MAX	1997/10/22 00:00
		10/21/97	700	Total Phenols ug/l	<5	420.1	MAX	1997/10/28 00:00
		10/21/97	700	Mercury, total as Hg ug/l	<2	245.2	MAX	1997/10/24 00:00
		10/21/97	700	Dibromochloromethane ug/l	<5	624	MAX	1997/10/28 00:00
		10/21/97	700	Hexachlorobenzene mg/l	<10		MAX	1997/10/31 00:00
		10/21/97	700	Dicofol ug/l	<0.10		MAX	1997/10/24 00:00
		10/21/97	700	N-Nitrosodi-n-propylamine ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Diazinon ug/l	<0.02	1657	MAX	1997/10/28 00:00
		10/21/97	700	Carbaryl ug/l	<5	632	MAX	1997/10/31 00:00
		10/21/97	700	Phenanthrene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Nitrobenzene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	N-Nitrosodiphenylamine ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Hexachlorobutadiene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Guthion ug/l	<0.02	1657	MAX	1997/10/24 00:00

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Sample Source : Pasadena-Vince Bayou **Sample Date :** 10/21/97 **Sampler ID :** BY

Sample	Description	Date	Time	Analyte	Result	Method	Analyst	Start Date/Time
20164	Pasadena-VB Plant Effluent	10/21/97	700	1,4-Dichlorobenzene mg/l	<10		MAX	1997/10/31 00:00
		10/21/97	700	Chrysene ug/l	<10	625	MAX	1997/10/29 00:00
		10/21/97	700	Bis (chloromethyl) ether ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Benzo (a) pyrene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Benzo (a) anthracene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Benzidine ug/l	<50	625	MAX	1997/10/31 00:00
		10/21/97	700	1,2,4-trichlorobenzene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	PCB 1016 ug/l	<0.05	608	MAX	1997/10/24 00:00
		10/21/97	700	Hexachloroethane ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Hexachlorophene ug/l	<10	604.1	MAX	1997/10/24 00:00
		10/21/97	700	1,2,4,5-tetrachlorobenzene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Pyridine ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Pentachlorobenzene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	N-Nitroso-di-n-Butylamine ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	N-Nitrosodiethylamine ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Nitrate-Nitrite ug/l	11200	352.1	MAX	1997/10/28 00:00
		10/21/97	700	2,4-D mg/l	<5		MAX	1997/10/28 00:00
		10/21/97	700	Methyl Ethyl Ketone ug/L	<50	624	MAX	1997/10/31 00:00
		10/21/97	700	Malathion mg/kg	<0.02		MAX	1997/11/03 00:00
		10/21/97	700	Fluoride ug/l	700	340.3	MAX	1997/10/28 00:00
		10/21/97	700	1,2-dibromoethane ug/l	<2	618	MAX	1997/10/28 00:00
		10/21/97	700	Demeton ug/L	<0.02	EPA 1657	MAX	1997/10/24 00:00
		10/21/97	700	Cresols ug/l	<10	625	MAX	1997/11/03 00:00
		10/21/97	700	Chlorpyriphos ug/l	<0.02	1657	MAX	1997/11/03 00:00
		10/21/97	700	2,4,5-TP (Silvex) ug/l	<1	615	MAX	1997/10/28 00:00
		10/21/97	700	Parathion ug/l	<0.02	1657	MAX	1997/10/31 00:00
		10/21/97	700	Methoxychlor ug/l	<0.06	617	MAX	1997/10/24 00:00
		10/21/97	700	Mirex ug/l	<0.10	617	MAX	1997/10/24 00:00
		10/21/97	700	Anthracene ug/l	<10	625	MAX	1997/10/31 00:00

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Sample	Description	Date	Time	Analyte	Result	Method	Analyst	Start Date/Time
120164	Pasadena-VB Plant Effluent	10/21/97	700	Pyrene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Bis (2-Chloroisopropyl) Ether ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Bis (2-Ethylexyl) Phthalate ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Bis (2-chloroethoxy) methane ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Benzyl Butyl Phthalate ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Benzo (ghi) perylene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	2-chloronaphthalene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	3,4-benzofluoranthene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	4-Chloro Phenyl Ether ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Acenaphthylene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Acenaphthene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Hexachlorocyclohexane-gamma ug/l	<0.05	608	MAX	1997/10/29 00:00
		10/21/97	700	Hexachlorocyclohexane -delta ug/l	<0.04	608	MAX	1997/10/29 00:00
		10/21/97	700	Hexachlorocyclohexane-beta ug/l	<0.04	608	MAX	1997/10/29 00:00
		10/21/97	700	Hexachlorocyclohexane-alpha ug/l	<0.02	608	MAX	1997/10/29 00:00
		10/21/97	700	Endrin Aldehyde ug/l	<0.10	608	MAX	1997/10/29 00:00
		10/21/97	700	DDT ug/l	<0.04	608	MAX	1997/10/29 00:00
		10/21/97	700	Benzo (k) Fluoranthene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Di-n-oct Phthalate	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	N-Nitrosodimethylamine ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Naphthalene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Isophorone ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Indeno (1,2,3-cd) pyrene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Hexachlorocyclopentadiene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Fluorene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	4-Bromophenyl Phenyl Ether ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	1,2-diphenylhydrazine ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	DDE ug/l	<0.04	608	MAX	1997/10/29 00:00
		10/21/97	700	2,6-dinitrotoluene ug/l	<10	625	MAX	1997/10/31 00:00

a part of
Severn Trent Pl

ST Environmental Laboratory, Inc.

ST Environmental Laboratory, Inc.
16203 Park Row, Suite 110
Houston, Texas 77084
Tel. 281-578-5688
Fax 281-578-5086

Sample Source : Pasadena-Vince Bayou **Sample Date :** 10/21/97 **Sampler ID :** BY

Sample	Description	Date	Time	Analyte	Result	Method	Analyst	Start Date/Time
120164	Pasadena-VB Plant Effluent	10/21/97	700	2,4-Dinitrotoluene mg/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Dimethyl Phthalate ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Diethyl Phthalate ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	3,3-dichlorobenzidine ug/l	<20	625	MAX	1997/10/31 00:00
		10/21/97	700	1,3-dichlorobenzene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	1,2-dichlorobenzene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Di-n-Butyl Phthalate ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Dibenz (ah) anthracene ug/l	<10	625	MAX	1997/10/31 00:00
		10/21/97	700	Fluoranthene ug/l	<10	625	MAX	1997/10/31 00:00

FEB 1 1 1998

DOMESTIC WORKSHEET 4.0 - POLLUTANT ANALYSES REQUIREMENTS

THE FOLLOWING IS REQUIRED FOR RENEWAL AND AMENDMENT APPLICATION WITH A PERMITTED FLOW OF 1.0 MGD OR GREATER, FACILITIES WITH AN AUTHORIZED OR PROPOSED FLOW OF 1.0 MGD OR GREATER, OR FACILITIES WITH AN APPROVED PRETREATMENT PROGRAM.

1. TABLE 1 (Instructions, Pages 38-43)

POLLUTANT	CONCENTRATION(ug/l) AVG.	MAX.	NUMBER OF SAMPLES	MAL (ug/l)
Aldrin	<0.05		1	0.05
o-hexachlorocyclohexane	-		-	0.05
Aluminum	65.0		1	30
Arsenic	<0.05		1	10
Barium	20.0		1	10
Benzene	<0.40		1	10
Benzidine	<0.20		1	50
B-hexachlorocyclohexane	-		-	0.05
Benzo(a)anthracene	<0.80		1	10
Benzo(a)pyrene	<0.50		1	10
Cadmium	<1.00		1	1
Carbon Tetrachloride	<0.80		1	10
Carbaryl	<1.00		1	5
Chlordane	<0.50		1	0.15
Chlorobenzene	<0.30		1	10
Chloroform	8.41		1	10
Chlorpyrifos	<0.05		1	0.05
Chromium (Total)	<10.0		1	10
Chromium (Tri)	<10.0		1	(*1)
Chromium (Hex)	<10.0		1	10
Copper	<10.0		1	10
Chrysene	<0.50		1	10
Cresols	<2.00		1	(*3)
Cyanide (*3)	<0.02		1	20
4,4'- DDD	<0.06		1	0.1
4,4'- DDE	<0.05		1	0.1
4,4'- DDT	<0.05		1	0.1
2,4-D	<0.01		1	10
Demeton (O and S)	<0.20		1	0.20
Diazinon	<0.50		1	0.5
Dibromochloromethane	<0.40		1	10
1,2-Dibromoethane	<0.50		1	2
Dieldrin	<0.10		1	0.1
1,4-Dichlorobenzene (p-Dichlorobenzene)	4.98		1	10
1,2-Dichloroethane	<0.50		1	10
1,1-Dichloroethylene	-		-	10
Dicofol	<0.06		1	20
Endosulfan I (alpha)	<0.05		1	0.1
Endosulfan II (beta)	<0.06		1	0.1

*3 - See page 38 of the instructions for an explanation

See Attachment – Item 1

POLLUTANT	CONCENTRATION(ug/l) AVG.	MAX.	NUMBER OF SAMPLES	MAL (ug/l)
Endosulfan Sulfate	<0.04		1	0.1
Endrin	<0.05		1	0.1
Fluoride	0.42		1	500
Guthion	<0.10		1	0.1
Heptachlor	<0.05		1	0.05
Heptachlor Epoxide	<0.05		1	1
y-Hexachlorocyclohexane (Lindane)	-		-	0.05
Hexachlorobenzene	-		-	10
Hexachlorobutadiene	<1.10		1	10
Hexachloroethane	<0.80		1	20
Hexachlorophene	<10.0		1	10
Lead	<5.0		1	5
Malathion	<0.10		1	0.1
Mercury	<0.20		1	0.2
Methoxychlor	<0.06		1	2
Methyl Ethyl Ketone	<50.0		1	50
Mirex	<0.20		1	0.2
Nickel	<10.0		1	10
Nitrate-Nitrogen	-		-	1000
Nitrobenzene	<0.90		1	10
n-Nitrosodiethylamine	<5.0		1	20
n-Nitroso-di-n-Butylamine	<20.0		1	20
Parathion (ethyl)	<0.10		1	0.1
Pentachlorobenzene	<20.0		1	20
Pentachlorophenol	<1.10		1	50
Phenanthrene	<0.80		1	10
Polychlorinated Biphenyls (PCB's)(*4)	-		-	1
Pyridine	<5.00		1	20
Selenium	<5.00		1	10
Silver	<2.00		1	2
1,2,4,5-Tetrachlorobenzene	<20.0		1	20
Tetrachloroethylene	-		-	10
Toxaphene	<3.00		1	5
2,4,5-TP (Silvex)	<0.002		1	2
Tributyltin (*5)	-		-	0.010
Trichloroethylene	-		-	10
1,1,1-Trichloroethane	<0.30		1	10
2,4,5-Trichlorophenol	<0.70		1	50
TTHM (Total Trihalomethanes)	<10.0		1	10
Vinyl Chloride	<0.70		1	10
Zinc	18.0		1	5

*4, *5 - See page 38 of the instructions for an explanation

Table 1 sample information: Indicate type of sample: . ✔ . Grab . . Composite

Date and time sample(s) collected: 11/01/01 VB Effluent

2. TABLE 2 (Instructions, Pages 37-42)

POLLUTANT	CONCENTRATION(ug/l) AVG.	MAX.	NUMBER OF SAMPLES	MAL (ug/l)
METALS, CYANIDE AND PHENOLS				
Antimony	<60.0		1	60
Arsenic	<5.00		1	10
Beryllium	<2.00		1	5
Cadmium	<1.00		1	1
Chromium (Total)	<10.0		1	10
Chromium (Hex)	<10.0		1	10
Chromium (Tri)	<10.0		1	(*1)
Copper	<10.0		1	10
Lead	<5.00		1	5
Mercury	<0.20		1	0.2
Nickel	<10.0		1	10
Selenium	<5.00		1	10
Silver	<2.00		1	2
Thallium	<10.0		1	10
Zinc	18.0		1	5
Cyanide (*3)	<0.002		1	20
Phenols, Total	0.03		1	10
VOLATILE COMPOUNDS				
Acrolein	<50.0		1	50
Acrylonitrile	<50.0		1	50
Benzene	<0.40		1	10
Bromoform	<1.30		1	10
Carbon Tetrachloride	<0.80		1	10
Chlorobenzene	<0.30		1	10
Chlorodibromomethane	-		-	10
Chloroethane	<1.10		1	50
2-Chloroethylvinyl Ether	<8.70		1	10
Chloroform	8.41		1	10
Dichlorobromomethane	-		-	10
1,1-Dichloroethane	<1.80		1	10
1,2,-Dichloroethane	<0.50		1	10
1,1-Dichloroethylene	-		-	10
1,2-Dichloropropane	<0.50		1	10
1,3-Dichloropropylene	<10.0		1	10
Ethylbenzene	<0.30		1	10
Methyl Bromide	-		-	20
Methyl Chloride	-		-	50
Methylene Chloride	<1.30		1	20
1,1,2,2-Tetrachloroethane	<1.30		1	10
Tetrachloroethylene	-		-	50
Toluene	<0.30		1	10
1,2-Trans-Dichloroethylene	-		-	10
1,1,1-Trichloroethane	<0.30		1	10
1,1,2-Trichloroethane	<1.10		1	10
Trichloroethylene	-		-	10
Vinyl Chloride	<0.70		1	10

*3 - See page 38 of the instructions for an explanation

POLLUTANT	CONCENTRATION(ug/l) AVG.	MAX.	NUMBER OF SAMPLES	MAL (ug/l)
ACID COMPOUNDS				
2-Chlorophenol	<0.70		1	
10 2,4-Dichlorophenol	<0.70		1	10
2,4-Dimethylphenol	<10.0		1	10
4,6-Dinitro-o-Cresol	<50.0		1	50
2,4-Dinitrophenol	<0.70		1	50
2-Nitrophenol	<0.05		1	20
4-Nitrophenol	<2.00		1	50
P-Chloro-m-Cresol	-		-	10
Pentachlorophenol	<1.10		1	50
Phenol	0.03		1	10
2,4,6-Trichlorophenol	<0.70		1	10
BASE/NEUTRAL COMPOUNDS				
Acenaphthene	<1.10		1	10
Acenaphthylene	<0.80		1	10
Anthracene	<0.50		1	10
Benzidine	<0.20		1	50
Benzo(a)Anthracene	<2.00		1	10
Benzo(a)Pyrene	<0.50		1	10
3,4-Benzofluoranthene	<10.0		1	10
Benzo(ghi)Perylene	<0.10		1	20
Benzo(k)Fluoranthene	<0.10		1	10
Bis(2-Chloroethoxy)Methane	<0.70		1	10
Bis(2-Chloroethyl)Ether	<0.70		1	10
Bis(2-Chloroisopropyl)Ether	<0.80		1	10
Bis(2-Ethylhexyl)Phthalate	<5.00		1	10
4-Bromophenyl Phenyl Ether	<1.00		1	10
Chrysene	<0.50		1	10
Dibenzo(a,h)Anthracene	<0.50		1	20
1,2-Dichlorobenzene	<0.80		1	10
1,3-Dichlorobenzene	<0.70		1	10
1,4-Dichlorobenzene	<1.00		1	10
3,3-Dichlorobenzidine	<2.00		1	50
Diethyl Phthalate	<1.10		1	10
Dimethyl Phthalate	<0.60		1	10
Di-n-Butyl Phthalate	<2.10		1	10
2,4-Dinitrotoluene	<0.70		1	10
2,6-Dinitrotoluene	<0.60		1	10
Di-n-Octyl Phthalate	<0.70		1	10
1,2-Diphenyl Hydrazine (as Azobenzene)	-		-	20
Fluoranthene	<0.50		1	10
Fluorene	<0.80		1	10
Hexachlorobenzene	<1.00		1	10
Hexachlorobutadiene	<1.10		1	10
Hexachlorocyclopentadiene	<0.60		1	10
Hexachloroethane	<0.80		1	20
Indeno(1,2,3-cd)pyrene	<0.30		1	20
Isophorone	<0.70		1	10
Naphthalene	<0.30		1	10
Nitrobenzene	<0.90		1	10

Pollutant	Concentration (ug/l) AVG	MAX	Number of SAMPLES	MAL (ug/l)
N-Nitrosodimethylamine	<50.0		1	50
N-Nitrosodi-n-Propylamine	<1.80		1	20
N-Nitrosodiphenylamine	<50.0		1	20
Phenanthrene	<0.80		1	10
Pyrene	<0.50		1	10
1,2,4-Trichlorobenzene	<1.10		1	10
PESTICIDES				
Aldrin	<0.05		1	0.05
alpha-BHC	<0.04		1	0.05
beta-BHC	<0.04		1	0.05
gamma-BHC	<0.03		1	0.05
delta-BHC	<0.02		1	0.05
Chlordane	<0.05		1	0.15
4,4,-DDT	<0.05		1	0.1
4,4,-DDE	<0.05		1	0.1
4,4,-DDE	<0.05		1	0.1
Dieldrin	<0.10		1	0.1
alpha-Endosulfan	-		-	0.1
beta-Endosulfan	-		-	0.1
Endosulfan Sulfate	<0.04		1	0.1
Endrin	<0.05		1	0.1
Endrin Aldehyde	<0.06		1	0.1
Heptachlor	<0.05		1	0.05
Heptachlor Epoxide	<0.05		1	1.0
PCB-1242	<1.00		1	1.0
PCB-1254	<1.00		1	1.0
PCB-1221	<1.00		1	1.0
PCB-1232	<1.00		1	1.0
PCB-1248	<1.00		1	1.0
PCB-1260	<1.00		1	1.0
PCB-1016	<1.00		1	1.0
Toxaphene	<3.00		1	5.0

Table 2 sample information: Indicate type of sample: ✔ Grab ____ Composite

Date and time sample(s) collected: 11/01/01 VB Effluent

Anacon, Inc.
730 FM 1959
Houston, TX 77034
Phone: (281) 922-7000
Fax: (281) 481-0089

City of Pasadena
P.O. Box 672
Pasadena, TX 77501
ATTN: Jimmy Gilbert

ANACON NUMBER	18325
DATE COLLECTED	11/01/01
DATE RECEIVED	11/01/01
DATE OF REPORT	11/16/01

LAB ID: 18325-02
SAMPLE ID: Vince Bayou EFF
SAMPLE MATRIX: Aqueous liquid

MISCELLANEOUS CHEMICAL ANALYSIS

PARAMETER	METHOD	DATE ANALYZED	REPORTING LIMIT (mg/L)	RESULT (mg/L)
Chloride	300.0	11/08/01	0.08	88.6
Cyanide, Total	335.2	11/13/01	0.02	<0.02
Fluoride	300.0	11/08/01	0.20	0.42
Nitrate as N	300.0	11/08/01	0.15	0.73
Phenols, Total	420.1	11/16/01	0.01	0.03
Sulfate	300.0	11/08/01	0.20	58.1
Total Dissolved Solids (TDS)	160.1	11/08/01	2.20	450

Analyzed by: LC, KC, MK

DOMESTIC WORKSHEET 4.0 – ITEM 1

Lab Manager

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Reported results represent only the sample tested.

Anacon, Inc.
730 FM 1959
Houston, TX 77034
Phone: (281) 922-7000
Fax: (281) 481-0089

City of Pasadena		ANACON NUMBER	18325
P.O. Box 672		DATE COLLECTED	11/01/01
Pasadena, TX 77501		DATE RECEIVED	11/01/01
ATTN: Jimmy Gilbert		DATE OF REPORT	11/07/01

LAB ID: 18325-02 SAMPLE MATRIX: Aqueous liquid
SAMPLE ID: Vince Bayou EFF

VOLATILE ORGANIC COMPOUNDS (VOC) ANALYSIS

	PARAMETER	CAS #	REPORTING LIMIT (ug/L)	RESULT (ug/L)
1	Acrolein	107-02-8	50.0	<50.0
2	Chloromethane	74-87-3	1.20	<1.20
3	Vinyl chloride	75-01-4	0.70	<0.70
4	Bromomethane	74-83-9	2.10	<2.10
5	Chloroethane	75-00-3	1.10	<1.10
6	Acrylonitrile	107-13-1	50.0	<50.0
7	1,1-Dichloroethene	75-35-4	1.90	<1.90
8	Methylene chloride	75-09-2	1.30	<1.30
9	trans-1,2-Dichloroethene	156-60-5	2.70	<2.70
10	1,1-Dichloroethane	75-34-3	1.90	<1.90
11	2-Butenone-MEK	78-93-3	50.0	<50.0
12	Chloroform	67-66-3	0.70	8.41
13	1,2-Dichloroethane	107-06-2	0.50	<0.50
14	1,1,1-Trichloroethane	71-55-6	0.30	<0.30
15	Carbon tetrachloride	56-23-5	0.80	<0.80
16	Benzene	71-43-2	0.40	<0.40
17	Dibromomethane	74-95-3	1.00	<1.00
18	1,2-Dichloropropane	78-87-5	0.50	<0.50
19	Trichloroethene	79-01-6	0.60	<0.60
20	Bromodichloromethane	75-27-4	0.30	<0.30
21	2-Chloroethyl vinyl ether	110-75-8	8.70	<8.70

Lab Manager _____

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Reported results represent only the sample tested.

Anacon, Inc.
730 FM 1959
Houston, TX 77034
Phone: (281) 922-7000
Fax: (281) 481-0089

LAB ID: 18325-02
SAMPLE ID: Vince Bayou EFF **SAMPLE MATRIX:** Aqueous liquid

	PARAMETER	CAS #	REPORTING LIMIT (ug/L)	RESULT (ug/L)
22	1,1,2-Trichloroethane	79-00-5	1.10	<1.10
23	Toluene	108-88-3	0.30	<0.30
24	Dibromochloromethane	124-48-1	0.40	<0.40
25	1,2-Dibromo ethane	106-93-4	0.50	<0.50
26	Tetrachloroethene	127-18-4	0.50	<0.50
27	Chlorobenzene	108-90-7	0.30	<0.30
28	Ethylbenzene	100-41-4	0.30	<0.30
29	Bromoform	75-25-2	1.30	<1.30
30	1,1,2,2-Tetrachloroethane	79-34-5	1.30	<1.30
31	1,4-Dichlorobenzene	106-46-7	0.50	4.98
32	Hexachlorobutadiene	87-68-3	0.80	<0.80
33	Total Trihalomethanes	-	10.0	<10.0
34	1,3-Dichloropropylene	542-75-6	10.0	<10.0

	SURROGATES	Added	Recovered	% Recovery
1	Dibromofluoromethane	50.0	45.9	91.8%
2	1,2-Dichloroethane-d4	50.0	45.4	90.9%
3	Toluene-d8	50.0	52.2	104%
4	4-Bromofluorobenzene	50.0	52.6	105%

Method: 5030A / 8260B
Date Analyzed: 11/02/01
Analyst: HL

Lab Manager _____

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Reported results represent only the sample tested

Anacon, Inc.
730 FM 1959
Houston, TX 77034
Phone: (281) 922-7000
Fax: (281) 481-0089

City of Pasadena		ANACON NUMBER	18325
P.O. Box 672		DATE COLLECTED	11/01/01
Pasadena, TX 77501		DATE RECEIVED	11/01/01
ATTN: Jimmy Gilbert		DATE OF REPORT	11/14/01

LAB ID: 18325-02 **SAMPLE MATRIX:** Aqueous liquid
SAMPLE ID: Vinco Bayou EFF

SEMIVOLATILE ORGANICS ANALYSIS

	PARAMETER	CAS #	REPORTING LIMIT (ug/L)	RESULT (ug/L)
1	Pyridine	110-86-1	5.00	<5.00
2	n-Nitrosodimethylamine	62-75-9	5.00	<5.00
3	bis(2-Chloroethyl)ether	111-44-4	0.70	<0.70
4	Aniline	62-53-3	1.60	<1.60
5	Pentachlorobenzene	608-93-5	20.0	<20.0
6	2-Chlorophenol	95-57-8	0.70	<0.70
7	1,3-Dichlorobenzene	541-73-1	0.70	<0.70
8	1,4-Dichlorobenzene	106-46-7	1.00	<1.00
9	1,2-Dichlorobenzene	95-50-1	0.80	<0.80
10	bis(2-Chloroisopropyl)ether	108-60-1	0.80	<0.80
11	Hexachloroethane	67-72-1	0.80	<0.80
12	n-Nitroso-di-n-propylamine	621-64-7	1.80	<1.80
13	Nitrobenzene	98-95-3	0.90	<0.90
14	Isophorone	78-59-1	0.70	<0.70
15	2-Nitrophenol	88-75-5	1.10	<0.05
16	bis(2-Chloroethoxy)methane	111-91-1	0.70	<0.70
17	2,4-Dichlorophenol	120-83-2	0.70	<0.70
18	1,2,4-Trichlorobenzene	120-82-1	1.10	<1.10
19	Naphthalene	91-20-3	0.30	<0.30
20	Hexachlorobutadiene	87-68-3	1.10	<1.10
21	4-Chloro-3-methylphenol	59-50-7	0.80	<0.80
22	Hexachlorocyclopentadiene	77-47-4	0.60	<0.60
23	2,4,6-Trichlorophenol	88-06-2	0.70	<0.70
24	2,4,5-Trichlorophenol	933-78-8	0.70	<0.70
25	2,4-Dimethylphenol	105-67-9	10.0	<10.0
26	3,4-Benzofluoranthene	205-99-2	10.0	<10.0
27	Acenaphthylene	208-96-8	0.80	<0.80
28	Cresols	1319-77-3	2.00	<2.00
29	n-Nitrosodimethylamine	55-18-5	50.0	<50.0
30	n-Nitroso-di-n-Butylamine	924-16-3	20.0	<20.0
31	4,6-Dinitro-o-cresol	534-52-1	50.0	<50.0
32	Hexachlorophene	70-30-4	10.0	<10.0

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730 FM 1959
Houston, TX 77034
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Fax: (281) 481-0089

LAB ID: 18325-02 **SAMPLE MATRIX:** Aqueous liquid

SAMPLE ID: Vince Bayou EFF

33	Dimethylphthalate	131-11-3	0.60	<0.60
34	2,6-Dinitrotoluene	606-20-2	0.60	<0.60
35	Acenaphthene	83-32-9	1.10	<1.10
36	1,2,4,5-Tetrachlorobenzene	95-94-3	20.0	<20.0
37	2,4-Dinitrophenol	51-28-5	0.70	<0.70
38	2,4-Dinitrotoluene	121-14-2	0.70	<0.70
39	4-Nitrophenol	100-02-7	2.00	<2.00
40	Fluorene	86-73-7	0.80	<0.80
41	4-Chlorophenyl-phenylether	7005-72-3	0.60	<0.60
42	Diethylphthalate	84-66-2	1.10	<1.10
43	n-Nitrosodiphenylamine	86-30-6	0.60	<0.60
44	Azobenzene	103-33-3	1.70	<1.70
45	4-Bromophenyl-phenylether	101-55-3	1.00	<1.00
46	Hexachlorobenzene	118-74-1	1.00	<1.00
47	Pentachlorophenol	87-86-5	1.10	<1.10
48	Phenanthrene	85-01-8	0.80	<0.80
49	Anthracene	120-12-7	0.50	<0.50
50	Di-n-butylphthalate	84-74-2	2.10	<2.10
51	Fluoranthene	206-44-0	0.50	<0.50
52	Benzidine	92-87-5	0.20	<0.20
53	Pyrene	129-00-0	0.50	<0.50
54	3-3'-Dichlorbenzidine	91-94-1	2.00	<2.00
55	Benzo[a]anthracene	56-55-3	0.80	<0.80
56	Chrysene	218-01-9	0.50	<0.50
57	bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00
58	Di-n-octylphthalate	117-84-0	0.70	<0.70
59	Benzo[k]fluoranthene	207-08-9	0.10	<0.10
60	Benzo[a]pyrene	50-32-8	0.50	<0.50
61	Indeno[1,2,3-cd]pyrene	193-39-5	0.30	<0.30
62	Diben[a,h]anthracene	53-70-3	0.50	<0.50
63	Benzo[g,h,i]perylene	191-24-2	0.10	<0.10

Surrogates	Added	Recovered	% Recovery
2-Fluorophenol	20.0	8.65	43.3%
Phenol-d6	20.0	7.51	37.6%
Nitrobenzene-d5	20.0	14.5	72.4%
2-Fluorobiphenyl	20.0	15.3	76.6%
2,4,6-Tribromophenol	20.0	15.7	78.3%
Terphenyl-d14	20.0	15.6	77.9%

Method: 3510C / 8270C

Date Extracted: 11/08/01

Date Analyzed: 11/09/01

Analyst: MB

Lab Manager _____

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City of Pasadena		ANACON NUMBER	18325
P.O. Box 672		DATE COLLECTED	11/01/01
Pasadena, TX 77501		DATE RECEIVED	11/01/01
ATTN: Jimmy Gilbert		DATE OF REPORT	11/15/01

LAB ID: 18325-02 **SAMPLE MATRIX:** Aqueous liquid
SAMPLE ID: Vince Bayou EFF

PESTICIDES / PCB ANALYSIS

	PARAMETER	CAS #	REPORTING LIMIT (ug/l)	RESULT (ug/l)
1	alpha-BHC	91-20-3	0.04	<0.04
2	Lindane (gamma-BHC)	86-73-7	0.03	<0.03
3	beta-BHC	85-01-8	0.04	<0.04
4	delta-BHC	53-70-3	0.02	<0.02
5	Heptachlor	120-12-7	0.05	<0.05
6	Aldrin	129-00-0	0.05	<0.05
7	Heptachlor epoxide	56-55-3	0.05	<0.05
8	gamma-Chlordane	5103-74-2	0.05	<0.05
9	alpha-Chlordane	5103-71-9	0.05	<0.05
10	Endosulfan I	218-01-9	0.05	<0.05
11	4,4'-DDE	72-55-9	0.05	<0.05
12	Dieldrin	207-08-9	0.10	<0.10
13	Endrin	50-32-8	0.05	<0.05
14	4,4'-DDD	72-54-8	0.06	<0.06
15	Endosulfan II	53-70-3	0.08	<0.08
16	4,4'-DDT	50-29-3	0.05	<0.05
17	Endosulfan sulfate	207-08-9	0.04	<0.04
18	Methoxychlor	50-32-8	0.06	<0.06
19	Endrin aldehyde	193-39-5	0.06	<0.06
20	Dicofol	115-32-2	20.0	<0.08
21	Toxaphene	8001-35-2	3.00	<3.00
22	Mirex	2385-85-5	0.20	<0.20
23	Arochlor 1016	12674-11-2	1.00	<1.00
24	Arochlor 1221	11104-28-2	1.00	<1.00
25	Arochlor 1232	11141-16-5	1.00	<1.00
26	Arochlor 1242	53469-21-9	1.00	<1.00
27	Arochlor 1248	12672-29-6	1.00	<1.00
28	Arochlor 1254	11097-69-1	1.00	<1.00
29	Arochlor 1260	11096-82-5	1.00	<1.00

	Surrogates	Added	Recovered	% Recovery
1	Tetrachloro-m-xylene	0.50	0.26	51.0%
2	Decachlorobiphenyl	0.50	0.28	56.8%

Method: 3510C / 8081A / 8082
Date Extracted: 11/07/01
Date Analyzed: 11/12/01
Analyst: MD

Lab Manager: _____

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City of Pasadena		ANACON NUMBER	18325
P.O. Box 672		DATE COLLECTED	11/01/01
Pasadena, TX 77501		DATE RECEIVED	11/01/01
ATTN: Jimmy Gilbert		DATE OF REPORT	11/09/01

LAB ID: 18325-02
SAMPLE ID: Vince Bayou EFF
SAMPLE MATRIX: Aqueous liquid

ORGANO-PHOSPHORUS PESTICIDES - Method 8140

	PARAMETER	CAS #	MAL (ug/L)	RESULT (ug/L)
1	Chloropyrifos	2921-88-2	0.05	<0.05
2	Demeton -O + Demeton -S	298-03-3,126-75-0	0.20	<0.20
3	Diazinon	333-41-5	0.50	<0.50
4	Guthion	86-50-0	0.10	<0.10
5	Malathion	121-75-5	0.10	<0.10
6	Parathion ethyl	56-38-2	0.10	<0.10

Analyst: HL
Date Analyzed: 11/07/01

Laboratory Manager: [signature]

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P.O. Box 672		DATE COLLECTED	11/01/01
Pasadena, TX 77501		DATE RECEIVED	11/01/01
ATTN: Jimmy Gilbert		DATE OF REPORT	11/15/01

LAB ID: 18325-02 SAMPLE MATRIX: Aqueous liquid
SAMPLE ID: Vince Bayou EFF

HERBICIDES - METHOD 8151B

	PARAMETER	CAS #	REPORTING LIMIT (mg/L)	RESULT (mg/L)
1	2,4-D	94-75-7	0.010	<0.010
2	2,4,5-TP(Silvex)	93-72-1	0.002	<0.002

	Surrogates	Added	Recovered	% Recovery
1	2,4-Dichlorophenyl acetic acid	10.0	8.86	88.6%

Date Extracted: 11/08/01
Date Analyzed: 11/13/01
Analyst: JL

Lab Manager

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City of Pasadena		ANACON NUMBER	18325
P.O. Box 672		DATE COLLECTED	11/01/01
Pasadena, TX 77501		DATE RECEIVED	11/01/01
ATTN: Jimmy Gilbert		DATE OF REPORT	11/21/01

LAB ID: 18325-02 SAMPLE MATRIX: Aqueous liquid
SAMPLE ID: Vince Bayou EFF

CARBAMATES ANALYSIS

	PARAMETER	CAS #	REPORTING LIMIT (ug/L)	RESULT (ug/L)
1	Carbaryl	63-25-2	1.00	<1.00

Method: 632
Date Extracted: 11/08/01
Date Analyzed: 11/19/01
Analyst: JL

Lab Manager

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City of Pasadena		ANACON NUMBER	18325
P.O. Box 672		DATE COLLECTED	11/01/01
Pasadena, TX 77501		DATE RECEIVED	11/01/01
ATTN: Jimmy Gilbert		DATE OF REPORT	11/21/01

LAB ID: 18325-02 SAMPLE MATRIX: Aqueous liquid
SAMPLE ID: Vince Bayou EFF

TOTAL METALS ANALYSIS

PARAMETER	METHOD	DATE ANALYZED	REPORTING LIMIT (ug/L)	RESULT (ug/L)
Aluminum	200.2 / 200.7	11/05/01	30.0	85.0
Antimony	200.2 / 204.2	11/02/01	60.0	<60.0
Arsenic	200.2 / 206.2	11/02/01	5.00	<5.00
Barium	200.2 / 200.7	11/05/01	5.00	20.0
Beryllium	200.2 / 200.7	11/05/01	2.00	<2.00
Cadmium	200.2 / 213.2	11/02/01	1.00	<1.00
Chromium, Total	200.2 / 200.7	11/05/01	10.0	<10.0
Chromium, Hexavalent	200.2 / 218.4	11/05/01	10.0	<10.0
Chromium, Trivalent	200.2 / 200.7	11/05/01	10.0	<10.0
Copper	200.2 / 200.7	11/05/01	10.0	<10.0
Lead	200.2 / 239.2	11/02/01	5.00	<5.00
Mercury	245.1	11/09/01	0.20	<0.20
Nickel	200.2 / 200.7	11/05/01	10.0	<10.0
Selenium	200.2 / 270.2	11/02/01	5.00	<5.00
Silver	200.2 / 200.7	11/05/01	2.00	<2.00
Thallium	200.2 / 279.2	11/02/01	10.0	<10.0
Zinc	200.2 / 200.7	11/05/01	5.00	18.0

Analyzed by: HN, KC

Lab Manager

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