OhioEPA
State of Ohio Environmental Protection Agency
Central District Office

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2305 Westbrooke Drive, Building C
Columbus, Ohio 43228
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P.O. Box 2198
Columbus, Ohio 43266-2198

George V. Voinovich
Governor
Donald R. Schregardus
Director

75169

December 10, 1993

Kathleen Warren
U.S. EPA, Region 5
77 W. Jackson Blvd, (HSRM-6J)
Chicago, Ill 60604

Kathy:

Enclosed are the laboratory reports for the November 3, 1993 sampling of monitoring wells MW-7, MW-8 and Granville water well #1.

Let me know if you have any questions.

Sincerely,

Fred Myers
Site Coordinator
Division of Emergency and Remedial Response
Central District Office

FM/cjf

Enclosure

cc: CDO File

Printed on recycled paper

RGANIC SAMPLE SUBMISSION FORM

93-11-03-1

Lab Number 06835
Date Received 93-11-03

ample collected by Rizzo / Myers Affiliation
ivision DDAGW/DERR District Other

Report Results to Myers (if other than collector)
Bill to DERR (if other than division indicated above)

Date & Time of Sample YY MM DD HH MM

ample Location Observation Well #8 Begin: 931103 10:00
acility Name Granville Solvents End:

eceiving Stream Outfall No.

ell Owner DEPA Address
ell County / Township Licking

ample Type: Aqueous X Sediment Tissue Oil
Air canister Air filter Other

ther Info: Rush X Approved by
Litigation Complaint Compliance
Survey X Ambient Other

e Use: Industrial Public Private X

ample Volume Submitted: # Vials 2 # Liter Jars Other

nalyses Requested:	Date Analyzed	Date Reported	Analyst
X Volatile Organic Compounds (VOCs)	93-11-12	93-11-30	AJ
Non-Priority Pollutants for VOCs (up to 20 peaks)			
Base-Neutral & Acid Extractables (BNAs)			
Non-Priority Pollutants for BNAs (up to 20 peaks)			
Pesticides			
Polychlorinated biphenyls (PCBs)			
Other			

ractables taken by:
ab X Composite Composite Info (Vol/Freq/Duration)

ples Preserved with: HCL X Sodium Thiosulfate ~~Ascorbic Acid~~

assay Sample Submitted: Yes No X

ments on back: Yes No X

VOLATILE ORGANIC COMPOUND RESULTS

SAMPLE # :	06835 OBSERVATION WELL#8		
DATE COLLECTED:	11/03/93	COLLECTED BY:	RIZZO/MYERS
DATE ANALYZED :	11/12/93	ANALYZED BY :	AKHTAR JAMAL
METHOD :	524.2	MATRIX :	WATER
DILUTION FACTOR:	1 & 5	CONC. UNITS :	ug/L

CAS.NO.	COMPOUND	CONC.	DL
71-43-2	Benzene	<DL	0.5
108-86-1	Bromobenzene	<DL	0.5
74-97-5	Bromochloromethane	<DL	0.5
75-27-4	Bromodichloromethane	<DL	0.5
75-25-2	Bromoform	<DL	0.5
74-83-9	Bromomethane	<DL	0.5
104-51-8	N-Butylbenzene	<DL	0.5
135-98-8	Sec-Butylbenzene	<DL	0.5
98-06-6	Tert-Butylbenzene	<DL	0.5
56-23-5	Carbon Tetrachloride	<DL	0.5
108-90-7	Chlorobenzene	<DL	0.5
75-00-3	Chloroethane	<DL	0.5
67-66-3	Chloroform	<DL	0.5
74-87-3	Chloromethane	<DL	0.5
95-49-8	2-Chlorotoluene	<DL	0.5
106-43-4	4-Chlorotoluene	<DL	0.5
124-48-1	Dibromochloromethane	<DL	0.5
96-12-8	1,2-Dibromo-3-Chloropropane	<DL	0.5
106-93-4	1,2-Dibromoethane	<DL	0.5
74-95-3	Dibromomethane	<DL	0.5
95-50-1	1,2-Dichlorobenzene	<DL	0.5
541-73-1	1,3-Dichlorobenzene	<DL	0.5
106-46-7	1,4-Dichlorobenzene	<DL	0.5
75-71-8	Dichlorodifluoromethane	<DL	1.0
75-34-3	1,1-Dichloroethane	1.8	0.5
107-06-2	1,2-Dichloroethane	<DL	0.5
75-35-4	1,1-Dichloroethene	<DL	0.5
156-59-4	Cis-1,2-Dichloroethene	37.2	2.5
156-60-5	Trans-1,2-Dichloroethene	4.7	0.5
78-87-5	1,2-Dichloropropane	<DL	0.5
142-28-9	1,3-Dichloropropane	<DL	0.5
594-20-7	2,2-Dichloropropane	<DL	0.5
563-58-6	1,1-Dichloropropene	<DL	0.5
10061-1-5	Cis-1,3-Dichloropropene	<DL	0.5
10061-02-6	Trans-1,3-Dichloropropene	<DL	0.5
100-41-4	Ethylbenzene	<DL	0.5
87-68-3	Hexachlorobutadiene	<DL	0.5

CAS.NO.	COMPOUND	CONC.	DL
98-82-8	Isopropylbenzene	<DL	0.5
99-87-6	4-Isopropyltoluene	<DL	0.5
75-09-2	Methylene Chloride	<DL	1.0
91-20-3	Naphthalene	*	0.5
103-65-1	N-Propylbenzene	<DL	0.5
100-42-5	Styrene(Ethenylbenzene)	<DL	0.5
630-20-6	1,1,1,2-Tetrachloroethane	<DL	0.5
79-34-5	1,1,2,2-Tetrachloroethane	<DL	0.5
127-18-4	Tetrachloroethene	<DL	0.5
108-88-3	Toluene	<DL	0.5
87-61-6	1,2,3-Trichlorobenzene	<DL	0.5
120-82-1	1,2,4-Trichlorobenzene	<DL	0.5
71-55-6	1,1,1-Trichloroethane	<DL	0.5
79-00-5	1,1,2-Trichloroethane	<DL	0.5
79-01-6	Trichloroethene	<DL	0.5
75-69-4	Trichlorofluoromethane	<DL	1.0
96-18-4	1,2,3-Trichloropropane	<DL	0.5
95-63-6	1,2,4-Trimethylbenzene	<DL	0.5
108-67-8	1,3,5-Trimethylbenzene	<DL	0.5
75-01-4	Vinyl Chloride	<DL	0.5
95-47-6	O-Xylene	<DL	0.5
108-38-3	M-Xylene &/or	<DL	0.5
106-42-3	P-Xylene		

Explanation of terms:

DL Detection Limit taking into account MDL and sample dilution

CAS.NO. Chemical Abstracts Registry Number corresponding to the particular compound provided by Chemical Abstract Service.

Additional comments: * Napthalene is present but may not be quantified due to poor recovery in QC standard.

REVIEWED BY QA

NOV 29 1993

BY I. Rosario

COMMENT: Approved

^RGANIC SAMPLE SUBMISSION FORM 93-11-03-1

Lab Number 06833
Date Received 93-11-03

Sample collected by Rizzo/Myers Affiliation
Division DDAGW/DERR District Other

Report Results to Myers (if other than collector)
Bill to DERR (if other than division indicated above)

Date & Time of Sample YY MM DD HH MM

Sample Location Granville Municipal Well #1 Begin: 931103 9:30
Facility Name Granville Well Field End:

Receiving Stream Outfall No.

Well Owner Granville Address
Well County / Township Licking

Sample Type: Aqueous X Sediment Tissue Oil
Air canister Air filter Other

Other Info: Rush X Approved by
Litigation Complaint Compliance
Survey Ambient Other

Well Use: Industrial Public X Private

Sample Volume Submitted: # Vials 2 # Liter Jars Other

Analyses Requested:	Date Analyzed	Date Reported	Analyst
X Volatile Organic Compounds (VOCs)	93-11-12	93-11-30	AJ
Non-Priority Pollutants for VOCs (up to 20 peaks)			
Base-Neutral & Acid Extractables (BNAs)			
Non-Priority Pollutants for BNAs (up to 20 peaks)			
Pesticides			
Polychlorinated biphenyls (PCBs)			
Other			

Extractables taken by:
Grab X Composite Composite Info (Vol/Freq/Duration)

Samples Preserved with: HCL X ~~Ascorbic Acid~~ Sodium Thiosulfate

Bioassay Sample Submitted: Yes No X

Comments on back: Yes No X

VOLATILE ORGANIC COMPOUND RESULTS

SAMPLE # : 06833 GRANVILLE WELL #1
DATE COLLECTED: 11/03/93 COLLECTED BY: RIZZO/MYERS
DATE ANALYZED : 11/12/93 ANALYZED BY : AKHTAR JAMAL
METHOD : 524.2 MATRIX : WATER
DILUTION FACTOR: 1.00 CONC. UNITS : ug/L

CAS.NO.	COMPOUND	CONC.	DL
71-43-2	Benzene	<DL	0.5
108-86-1	Bromobenzene	<DL	0.5
74-97-5	Bromochloromethane	<DL	0.5
75-27-4	Bromodichloromethane	<DL	0.5
75-25-2	Bromoform	<DL	0.5
74-83-9	Bromomethane	<DL	0.5
104-51-8	N-Butylbenzene	<DL	0.5
135-98-8	Sec-Butylbenzene	<DL	0.5
98-06-6	Tert-Butylbenzene	<DL	0.5
56-23-5	Carbon Tetrachloride	<DL	0.5
108-90-7	Chlorobenzene	<DL	0.5
75-00-3	Chloroethane	<DL	0.5
67-66-3	Chloroform	<DL	0.5
74-87-3	Chloromethane	<DL	0.5
95-49-8	2-Chlorotoluene	<DL	0.5
106-43-4	4-Chlorotoluene	<DL	0.5
124-48-1	Dibromochloromethane	<DL	0.5
96-12-8	1,2-Dibromo-3-Chloropropane	<DL	0.5
106-93-4	1,2-Dibromoethane	<DL	0.5
74-95-3	Dibromomethane	<DL	0.5
95-50-1	1,2-Dichlorobenzene	<DL	0.5
541-73-1	1,3-Dichlorobenzene	<DL	0.5
106-46-7	1,4-Dichlorobenzene	<DL	0.5
75-71-8	Dichlorodifluoromethane	<DL	1.0
75-34-3	1,1-Dichloroethane	<DL	0.5
107-06-2	1,2-Dichloroethane	<DL	0.5
75-35-4	1,1-Dichloroethene	<DL	0.5
156-59-4	Cis-1,2-Dichloroethene	<DL	0.5
156-60-5	Trans-1,2-Dichloroethene	<DL	0.5
78-87-5	1,2-Dichloropropane	<DL	0.5
142-28-9	1,3-Dichloropropane	<DL	0.5
594-20-7	2,2-Dichloropropane	<DL	0.5
563-58-6	1,1-Dichloropropene	<DL	0.5
10061-1-5	Cis-1,3-Dichloropropene	<DL	0.5
10061-02-6	Trans-1,3-Dichloropropene	<DL	0.5
100-41-4	Ethylbenzene	<DL	0.5
87-68-3	Hexachlorobutadiene	<DL	0.5

CAS.NO.	COMPOUND	CONC.	DL
98-82-8	Isopropylbenzene	<DL	0.5
99-87-6	4-Isopropyltoluene	<DL	0.5
75-09-2	Methylene Chloride	<DL	1.0
91-20-3	Naphthalene	<DL	0.5
103-65-1	N-Propylbenzene	<DL	0.5
100-42-5	Styrene(Ethenylbenzene)	<DL	0.5
630-20-6	1,1,1,2-Tetrachloroethane	<DL	0.5
79-34-5	1,1,2,2-Tetrachloroethane	<DL	0.5
127-18-4	Tetrachloroethene	<DL	0.5
108-88-3	Toluene	<DL	0.5
87-61-6	1,2,3-Trichlorobenzene	<DL	0.5
120-82-1	1,2,4-Trichlorobenzene	<DL	0.5
71-55-6	1,1,1-Trichloroethane	<DL	0.5
79-00-5	1,1,2-Trichloroethane	<DL	0.5
79-01-6	Trichloroethene	<DL	0.5
75-69-4	Trichlorofluoromethane	<DL	1.0
96-18-4	1,2,3-Trichloropropane	<DL	0.5
95-63-6	1,2,4-Trimethylbenzene	<DL	0.5
108-67-8	1,3,5-Trimethylbenzene	<DL	0.5
75-01-4	Vinyl Chloride	<DL	0.5
95-47-6	O-Xylene	<DL	0.5
108-38-3	M-Xylene &/or	<DL	0.5
106-42-3	P-Xylene		

Explanation of terms:

DL Detection Limit taking into account MDL and sample dilution

CAS.NO. Chemical Abstracts Registry Number corresponding to the particular compound provided by Chemical Abstract Service.

Additional comments:

REVIEWED BY QA

NOV 29 1993

BY T. Rosario

COMMENT: Approved

^RGANIC SAMPLE SUBMISSION FORM

93-11-03-1

Lab Number 06836
Date Received 93-11-03

Sample collected by Rizzo/Myers Affiliation
Division DDAGW/DERR District Other

Report Results to Myers (if other than collector)
Bill to DERR (if other than division indicated above)

Date & Time of Sample YY MM DD HH MM

Sample Location TRIP BLANK Begin: 93 11 03
Facility Name End:

Receiving Stream Outfall No.

Well Owner Address
Well County / Township

Sample Type: Aqueous X Sediment Tissue Oil
Air canister Air filter Other

Other Info: Rush X Approved by
Litigation Complaint Compliance
Survey X Ambient Other

Well Use: Industrial Public Private

Sample Volume Submitted: # Vials 1 # Liter Jars Other

Analyses Requested:	Date Analyzed	Date Reported	Analyst
X Volatile Organic Compounds (VOCs)	93-11-12	93-11-30	AJ
__ Non-Priority Pollutants for VOCs (up to 20 peaks)			
__ Base-Neutral & Acid Extractables (BNAs)			
__ Non-Priority Pollutants for BNAs (up to 20 peaks)			
__ Pesticides			
__ Polychlorinated biphenyls (PCBs)			
__ Other			

Extractables taken by:
Grab X Composite Composite Info (Vol/Freq/Duration)

Samples Preserved with: HCL X ~~Ascorbic Acid~~ Sodium Thiosulfate

Bioassay Sample Submitted: Yes No X

Comments on back: Yes No X

VOLATILE ORGANIC COMPOUND RESULTS

SAMPLE # : 06836 TRIP BLANK .....
DATE COLLECTED: 11/03/93 COLLECTED BY: RIZZO/MYERS
DATE ANALYZED : 11/12/93 ANALYZED BY : AKHTAR JAMAL
METHOD : 524.2 MATRIX : WATER
DILUTION FACTOR: 1.00 CONC. UNITS : ug/L

CAS.NO.	COMPOUND	CONC.	DL
71-43-2	Benzene	<DL	0.5
108-86-1	Bromobenzene	<DL	0.5
74-97-5	Bromochloromethane	<DL	0.5
75-27-4	Bromodichloromethane	<DL	0.5
75-25-2	Bromoform	<DL	0.5
74-83-9	Bromomethane	<DL	0.5
104-51-8	N-Butylbenzene	<DL	0.5
135-98-8	Sec-Butylbenzene	<DL	0.5
98-06-6	Tert-Butylbenzene	<DL	0.5
56-23-5	Carbon Tetrachloride	<DL	0.5
108-90-7	Chlorobenzene	<DL	0.5
75-00-3	Chloroethane	<DL	0.5
67-66-3	Chloroform	<DL	0.5
74-87-3	Chloromethane	<DL	0.5
95-49-8	2-Calorotoluene	<DL	0.5
106-43-4	4-Chlorotoluene	<DL	0.5
124-48-1	Dibromochloromethane	<DL	0.5
96-12-8	1,2-Dibromo-3-Chloropropane	<DL	0.5
106-93-4	1,2-Dibromoethane	<DL	0.5
74-95-3	Dibromomethane	<DL	0.5
95-50-1	1,2-Dichlorobenzene	<DL	0.5
541-73-1	1,3-Dichlorobenzene	<DL	0.5
106-46-7	1,4-Dichlorobenzene	<DL	0.5
75-71-8	Dichlorodifluoromethane	<DL	1.0
75-34-3	1,1-Dichloroethane	<DL	0.5
107-06-2	1,2-Dichloroethane	<DL	0.5
75-35-4	1,1-Dichloroethene	<DL	0.5
156-59-4	Cis-1,2-Dichloroethene	<DL	0.5
156-60-5	Trans-1,2-Dichloroethene	<DL	0.5
78-87-5	1,2-Dichloropropane	<DL	0.5
142-28-9	1,3-Dichloropropane	<DL	0.5
594-20-7	2,2-Dichloropropane	<DL	0.5
563-58-6	1,1-Dichloropropene	<DL	0.5
10061-1-5	Cis-1,3-Dichloropropene	<DL	0.5
10061-02-6	Trans-1,3-Dichloropropene	<DL	0.5
100-41-4	Ethylbenzene	<DL	0.5
87-68-3	Hexachlorobutadiene	<DL	0.5

CAS.NO.	COMPOUND	CONC.	DL
98-82-8	Isopropylbenzene	<DL	0.5
99-87-6	4-Isopropyltoluene	<DL	0.5
75-09-2	Methylene Chloride	<DL	1.0
91-20-3	Naphthalene	<DL	0.5
103-65-1	N-Propylbenzene	<DL	0.5
100-42-5	Styrene(Ethenylbenzene)	<DL	0.5
630-20-6	1,1,1,2-Tetrachloroethane	<DL	0.5
79-34-5	1,1,2,2-Tetrachloroethane	<DL	0.5
127-18-4	Tetrachloroethene	<DL	0.5
108-88-3	Toluene	<DL	0.5
87-61-6	1,2,3-Trichlorobenzene	<DL	0.5
120-82-1	1,2,4-Trichlorobenzene	<DL	0.5
71-55-6	1,1,1-Trichloroethane	<DL	0.5
79-00-5	1,1,2-Trichloroethane	<DL	0.5
79-01-6	Trichloroethene	<DL	0.5
75-69-4	Trichlorofluoromethane	<DL	1.0
96-18-4	1,2,3-Trichloropropane	<DL	0.5
95-63-6	1,2,4-Trimethylbenzene	<DL	0.5
108-67-8	1,3,5-Trimethylbenzene	<DL	0.5
75-01-4	Vinyl Chloride	<DL	0.5
95-47-6	O-Xylene	<DL	0.5
108-38-3	M-Xylene &/or	<DL	0.5
106-42-3	P-Xylene		

Explanation of terms:

DL Detection Limit taking into account MDL and sample dilution

CAS.NO. Chemical Abstracts Registry Number corresponding to the particular compound provided by Chemical Abstract Service.

Additional comments:

REVIEWED BY QA

NOV 29 1993

BY T. Kearns

COMMENT: approved

ORGANIC SAMPLE SUBMISSION FORM

93-11-03-1

Lab Number 068834
Date Received 93-11-03

Sample collected by Rizzo/Myers Affiliation
Division DDAGW / DERR District Other

Report Results to Myers (if other than collector)
Bill to DERR (if other than division indicated above)

Date & Time of Sample YY MM DD HH MM

Sample Location Observation Well 7 Begin: 93 11 03 9:45
Facility Name Granville Solvents End:

Receiving Stream Outfall No.

Well Owner OEPA Address
Well County / Township Licking

Sample Type: Aqueous X Sediment Tissue Oil
Air canister Air filter Other

Other Info: Rush X Approved by
Litigation Complaint Compliance
Survey X Ambient Other

Use: Industrial Public Private X

Sample Volume Submitted: # Vials 2 # Liter Jars Other

Analyses Requested:	Date Analyzed	Date Reported	Analyst
X Volatile Organic Compounds (VOCs)	93-11-12	93-11-30	AJ
Non-Priority Pollutants for VOCs (up to 20 peaks)			
Base-Neutral & Acid Extractables (BNAs)			
Non-Priority Pollutants for BNAs (up to 20 peaks)			
Pesticides			
Polychlorinated biphenyls (PCBs)			
Other			

Extractables taken by:
Grab X Composite Composite Info (Vol/Freq/Duration)

Vials Preserved with: HCL X Sodium Thiosulfate ~~Ascorbic Acid~~

Bioassay Sample Submitted: Yes No X

Comments on back: Yes No X

VOLATILE ORGANIC COMPOUND RESULTS

SAMPLE # : 06834 OBSERVATION WELL#7
DATE COLLECTED: 11/03/93 COLLECTED BY: RIZZO/MYERS
DATE ANALYZED : 11/12/93 ANALYZED BY : AKHTAR JAMAL
METHOD : 524.2 MATRIX : WATER
DILUTION FACTOR: 1.00 CONC. UNITS : ug/L

CAS.NO.	COMPOUND	CONC.	DL
71-43-2	Benzene	<DL	0.5
108-86-1	Bromobenzene	<DL	0.5
74-97-5	Bromochloromethane	<DL	0.5
75-27-4	Bromodichloromethane	<DL	0.5
75-25-2	Bromoform	<DL	0.5
74-83-9	Bromomethane	<DL	0.5
104-51-8	N-Butylbenzene	<DL	0.5
135-98-8	Sec-Butylbenzene	<DL	0.5
98-06-6	Tert-Butylbenzene	<DL	0.5
56-23-5	Carbon Tetrachloride	<DL	0.5
108-90-7	Chlorobenzene	<DL	0.5
75-00-3	Chloroethane	<DL	0.5
67-66-3	Chloroform	<DL	0.5
74-87-3	Chloromethane	<DL	0.5
95-49-8	2-Chlorotoluene	<DL	0.5
106-43-4	4-Chlorotoluene	<DL	0.5
124-48-1	Dibromochloromethane	<DL	0.5
96-12-8	1,2-Dibromo-3-Chloropropane	<DL	0.5
106-93-4	1,2-Dibromoethane	<DL	0.5
74-95-3	Dibromomethane	<DL	0.5
95-50-1	1,2-Dichlorobenzene	<DL	0.5
541-73-1	1,3-Dichlorobenzene	<DL	0.5
106-46-7	1,4-Dichlorobenzene	<DL	0.5
75-71-8	Dichlorodifluoromethane	<DL	1.0
75-34-3	1,1-Dichloroethane	<DL	0.5
107-06-2	1,2-Dichloroethane	<DL	0.5
75-35-4	1,1-Dichloroethene	<DL	0.5
156-59-4	Cis-1,2-Dichloroethene	<DL	0.5
156-60-5	Trans-1,2-Dichloroethene	<DL	0.5
78-87-5	1,2-Dichloropropane	<DL	0.5
142-28-9	1,3-Dichloropropane	<DL	0.5
594-20-7	2,2-Dichloropropane	<DL	0.5
563-58-6	1,1-Dichloropropene	<DL	0.5
10061-1-5	Cis-1,3-Dichloropropene	<DL	0.5
10061-02-6	Trans-1,3-Dichloropropene	<DL	0.5
100-41-4	Ethylbenzene	<DL	0.5
87-68-3	Hexachlorobutadiene	<DL	0.5

Sample No. 06834 OBSEVOLATILE ORGANIC COMPOUND RESULTS

CAS.NO.	COMPOUND	CONC.	DL
98-82-8	Isopropylbenzene	<DL	0.5
99-87-6	4-Isopropyltoluene	<DL	0.5
75-09-2	Methylene Chloride	<DL	1.0
91-20-3	Naphthalene	<DL	0.5
103-65-1	N-Propylbenzene	<DL	0.5
100-42-5	Styrene(Ethenylbenzene)	<DL	0.5
630-20-6	1,1,1,2-Tetrachloroethane	<DL	0.5
79-34-5	1,1,2,2-Tetrachloroethane	<DL	0.5
127-18-4	Tetrachloroethene	<DL	0.5
108-88-3	Toluene	<DL	0.5
87-61-6	1,2,3-Trichlorobenzene	<DL	0.5
120-82-1	1,2,4-Trichlorobenzene	<DL	0.5
71-55-6	1,1,1-Trichloroethane	<DL	0.5
79-00-5	1,1,2-Trichloroethane	<DL	0.5
79-01-6	Trichloroethene	<DL	0.5
75-69-4	Trichlorofluoromethane	<DL	1.0
96-18-4	1,2,3-Trichloropropane	<DL	0.5
95-63-6	1,2,4-Trimethylbenzene	<DL	0.5
108-67-8	1,3,5-Trimethylbenzene	<DL	0.5
75-01-4	Vinyl Chloride	<DL	0.5
95-47-6	O-Xylene	<DL	0.5
108-38-3	M-Xylene &/or	<DL	0.5
106-42-3	P-Xylene		

Explanation of terms:

DL Detection Limit taking into account MDL and sample dilution

CAS.NO. Chemical Abstracts Registry Number corresponding to the particular compound provided by Chemical Abstract Service.

Additional comments:

REVIEWED BY QA

NOV 29 1993

BY T. Reserve

COMMENT: Approved