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(206) 621-6490

FILE COPY

6 February 1989

ACTION COPY

Mel Miller
Chemical Processors, Inc.
2203 Airport Way South
Suite 400
Seattle, WA 98134

RE: Project No. Pier 91: ARI Project No. 02449

Dear Mel:

Please find enclosed the data for ARI job No. 02449

If you have any questions or require additional information, please do not hesitate to call at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

David R. Mitchell

David R. Mitchell
Project Manager

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WASTE MANAGEMENT BRANCH

DRM/cd

enclosures

cc: file #02449
Jim Bailey: Sweet Edwards

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: Method Blank

Lab Sample ID: 0103MB
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: Brian N. Abbe
Report Prepared: 01/10/89 MACA

Conc Level: Medium
Instrument ID: FINN I
Date Analyzed: 01/03/89

Amount Analyzed: 0.05 gm (Dry Weight)
Percent Moisture: NR
pH: NR
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	380 U	78-87-5	1,2-Dichloropropane	70 U
74-83-9	Bromomethane	310 U	10061-01-5	cis-1,3-Dichloropropene	190 U
75-01-4	Vinyl Chloride	200 U	79-01-6	Trichloroethene	60 U
75-00-3	Chloroethane	330 U	124-48-1	Dibromochloromethane	70 U
75-09-2	Methylene Chloride	350 U	79-00-5	1,1,2-Trichloroethane	70 U
67-64-1	Acetone	690 U	71-43-2	Benzene	100 U
75-15-0	Carbon Disulfide	120 U	10061-02-6	Trans-1,3-Dichloropropene	180 U
75-35-4	1,1-Dichloroethene	70 U	110-75-8	2-Chloroethylvinylether	270 U
75-34-3	1,1-Dichloroethane	60 U	75-25-2	Bromoform	250 U
540-59-0	1,2-Dichloroethene (Total)	80 U	108-10-1	4-Methyl-2-Pentanone	350 U
67-66-3	Chloroform	110 U	591-78-6	2-Hexanone	320 U
107-06-2	1,2-Dichloroethane	50 U	127-18-4	Tetrachloroethene	50 U
78-93-3	2-Butanone	620 U	79-34-5	1,1,2,2-Tetrachloroethane	270 U
71-55-6	1,1,1-Trichloroethane	60 U	108-88-3	Toluene	80 U
56-23-5	Carbon Tetrachloride	90 U	108-90-7	Chlorobenzene	90 U
108-05-4	Vinyl Acetate	310 U	100-41-4	Ethylbenzene	80 U
75-27-4	Bromodichloromethane	30 U	100-42-5	Styrene	110 U
77-69-4	Trichlorofluoromethane	100 U	1330-20-7	Total Xylenes	180 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				100 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.6%
Bromofluorobenzene	94.4%
d4-1,2-Dichloroethane	94.8%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: Method Blank

Lab Sample ID: 0103MB
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: _____
Report Prepared: 01/10/89 MACA

Conc Level: Low
Instrument ID: FINN I
Date Analyzed: 01/03/89

Amount Analyzed: 5.00 gm (Dry Weight)
Percent Moisture: NR
pH: NR
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	3.8 U	78-87-5	1,2-Dichloropropane	0.7 U
74-83-9	Bromomethane	3.1 U	10061-01-5	cis-1,3-Dichloropropene	1.9 U
75-01-4	Vinyl Chloride	2.0 U	79-01-6	Trichloroethene	0.6 U
75-00-3	Chloroethane	3.3 U	124-48-1	Dibromochloromethane	0.7 U
75-09-2	Methylene Chloride	3.5 U	79-00-5	1,1,2-Trichloroethane	0.7 U
67-64-1	Acetone	6.9 U	71-43-2	Benzene	1.0 U
75-15-0	Carbon Disulfide	1.2 U	10061-02-6	Trans-1,3-Dichloropropene	1.8 U
75-35-4	1,1-Dichloroethene	0.7 U	110-75-8	2-Chloroethylvinylether	2.7 U
75-34-3	1,1-Dichloroethane	0.6 U	75-25-2	Bromoform	2.5 U
540-59-0	1,2-Dichloroethene (Total)	0.8 U	108-10-1	4-Methyl-2-Pentanone	3.5 U
67-66-3	Chloroform	1.1 U	591-78-6	2-Hexanone	3.2 U
107-06-2	1,2-Dichloroethane	0.5 U	127-18-4	Tetrachloroethene	0.5 U
78-93-3	2-Butanone	6.2 U	79-34-5	1,1,2,2-Tetrachloroethane	2.7 U
71-55-6	1,1,1-Trichloroethane	0.6 U	108-88-3	Toluene	0.8 U
56-23-5	Carbon Tetrachloride	0.9 U	108-90-7	Chlorobenzene	0.9 U
108-05-4	Vinyl Acetate	3.1 U	100-41-4	Ethylbenzene	0.8 U
75-27-4	Bromodichloromethane	0.3 U	100-42-5	Styrene	1.1 U
77-69-4	Trichlorofluoromethane	1.0 U	1330-20-7	Total Xylenes	1.8 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1.0 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.6%
Bromofluorobenzene	94.4%
d4-1,2-Dichloroethane	94.8%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: Method Blank

Lab Sample ID: 0104MB
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: Brian N. Cohen
Report Prepared: 01/10/89 MACA

Conc Level: Low
Instrument ID: FINN I
Date Analyzed: 01/04/89

Amount Analyzed: 5.00 gm (Dry Weight)
Percent Moisture: NR
pH: NR
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	3.8 U	78-87-5	1,2-Dichloropropane	0.7 U
74-83-9	Bromomethane	3.1 U	10061-01-5	cis-1,3-Dichloropropene	1.9 U
75-01-4	Vinyl Chloride	2.0 U	79-01-6	Trichloroethene	0.6 U
75-00-3	Chloroethane	3.3 U	124-48-1	Dibromochloromethane	0.7 U
75-09-2	**Methylene Chloride**	**5.0**	79-00-5	1,1,2-Trichloroethane	0.7 U
67-64-1	Acetone	6.9 U	71-43-2	Benzene	1.0 U
75-15-0	Carbon Disulfide	1.2 U	10061-02-6	Trans-1,3-Dichloropropene	1.8 U
75-35-4	1,1-Dichloroethene	0.7 U	110-75-8	2-Chloroethylvinylether	2.7 U
75-34-3	1,1-Dichloroethane	0.6 U	75-25-2	Bromoform	2.5 U
540-59-0	1,2-Dichloroethene (Total)	0.8 U	108-10-1	4-Methyl-2-Pentanone	3.5 U
67-66-3	Chloroform	1.1 U	591-78-6	2-Hexanone	3.2 U
107-06-2	1,2-Dichloroethane	0.5 U	127-18-4	Tetrachloroethene	0.5 U
78-93-3	2-Butanone	6.2 U	79-34-5	1,1,2,2-Tetrachloroethane	2.7 U
71-55-6	1,1,1-Trichloroethane	0.6 U	108-88-3	Toluene	0.8 U
56-23-5	Carbon Tetrachloride	0.9 U	108-90-7	Chlorobenzene	0.9 U
108-05-4	Vinyl Acetate	3.1 U	100-41-4	Ethylbenzene	0.8 U
75-27-4	Bromodichloromethane	0.3 U	100-42-5	Styrene	1.1 U
77-69-4	Trichlorofluoromethane	1.0 U	1330-20-7	Total Xylenes	1.8 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1.0 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.5%
Bromofluorobenzene	96.5%
d4-1,2-Dichloroethane	88.8%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: CP107-0-5

Lab Sample ID: 2449AD
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: Brian N. Sahn
Report Prepared: 01/10/89 MACA

Conc Level: Low
Instrument ID: FINN I
Date Analyzed: 01/04/89

Amount Analyzed: 1.04 gm (Dry Weight)
Percent Moisture: 7.65%
pH: NR
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	18 U	78-87-5	1,2-Dichloropropane	3.4 U
74-83-9	Bromomethane	15 U	10061-01-5	cis-1,3-Dichloropropene	9.1 U
75-01-4	Vinyl Chloride	9.6 U	79-01-6	Trichloroethene	2.9 U
75-00-3	Chloroethane	16 U	124-48-1	Dibromochloromethane	3.4 U
75-09-2	**Methylene Chloride**	**48 B**	79-00-5	1,1,2-Trichloroethane	3.4 U
67-64-1	Acetone	33 U	71-43-2	Benzene	4.8 U
75-15-0	Carbon Disulfide	5.8 U	10061-02-6	Trans-1,3-Dichloropropene	8.7 U
75-35-4	1,1-Dichloroethene	3.4 U	110-75-8	2-Chloroethylvinylether	13 U
75-34-3	1,1-Dichloroethane	2.9 U	75-25-2	Bromoform	12 U
540-59-0	1,2-Dichloroethene (Total)	3.8 U	108-10-1	4-Methyl-2-Pentanone	17 U
67-66-3	Chloroform	5.3 U	591-78-6	2-Hexanone	15 U
107-06-2	1,2-Dichloroethane	2.4 U	127-18-4	Tetrachloroethene	2.4 U
78-93-3	2-Butanone	30 U	79-34-5	1,1,2,2-Tetrachloroethane	13 U
71-55-6	1,1,1-Trichloroethane	2.9 U	108-88-3	Toluene	3.8 U
56-23-5	Carbon Tetrachloride	4.3 U	108-90-7	Chlorobenzene	4.3 U
108-05-4	Vinyl Acetate	15 U	**100-41-4**	**Ethylbenzene**	**120**
75-27-4	Bromodichloromethane	1.4 U	100-42-5	Styrene	5.3 U
77-69-4	Trichlorofluoromethane	4.8 U	**1330-20-7**	**Total Xylenes**	**40 M**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				4.8 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	98.8%
Bromofluorobenzene	74.3%
d4-1,2-Dichloroethane	88.5%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: CP107-6-10

Lab Sample ID: 2449EG
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: Brian N. Sahler
Report Prepared: 01/10/89 MACA

Conc Level: Low
Instrument ID: FINN I
Date Analyzed: 01/03/89

Amount Analyzed: 1.18 gm (Dry Weight)
Percent Moisture: 12.25%
pH: NR
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	16 U	78-87-5	1,2-Dichloropropane	3.0 U
74-83-9	Bromomethane	13 U	10061-01-5	cis-1,3-Dichloropropene	8.1 U
75-01-4	Vinyl Chloride	8.5 U	79-01-6	Trichloroethene	2.5 U
75-00-3	Chloroethane	14 U	124-48-1	Dibromochloromethane	3.0 U
75-09-2	**Methylene Chloride**	**7.6 J**	79-00-5	1,1,2-Trichloroethane	3.0 U
67-64-1	Acetone	29 U	**71-43-2**	**Benzene**	**6.9**
75-15-0	Carbon Disulfide	5.1 U	10061-02-6	Trans-1,3-Dichloropropene	7.6 U
75-35-4	1,1-Dichloroethene	3.0 U	110-75-8	2-Chloroethylvinylether	11 U
75-34-3	1,1-Dichloroethane	2.5 U	75-25-2	Bromoform	11 U
540-59-0	1,2-Dichloroethene (Total)	3.4 U	108-10-1	4-Methyl-2-Pentanone	15 U
67-66-3	Chloroform	4.7 U	591-78-6	2-Hexanone	14 U
107-06-2	1,2-Dichloroethane	2.1 U	127-18-4	Tetrachloroethene	2.1 U
78-93-3	2-Butanone	26 U	79-34-5	1,1,2,2-Tetrachloroethane	11 U
71-55-6	1,1,1-Trichloroethane	2.5 U	108-88-3	Toluene	3.4 U
56-23-5	Carbon Tetrachloride	3.8 U	108-90-7	Chlorobenzene	3.8 U
108-05-4	Vinyl Acetate	13 U	**100-41-4**	**Ethylbenzene**	**82**
75-27-4	Bromodichloromethane	1.3 U	100-42-5	Styrene	4.7 U
77-69-4	Trichlorofluoromethane	4.2 U	**1330-20-7**	**Total Xylenes**	**45**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				4.2 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	101%
Bromofluorobenzene	+
d4-1,2-Dichloroethane	102%

*Surrogate recoveries indicate the validity of a given analysis
+Surrogate masked by UNKNOWN Hydrocarbon.

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: CP107-6-10 Rerun

Lab Sample ID: 2449EGR
Sample Matrix: Soil/Sediments

Data Release Authorized: Alan N. Baker
Report Prepared: 01/10/89 MACA

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Conc Level: Low
Instrument ID: FINN I
Date Analyzed: 01/04/89

Amount Analyzed: 0.54 gm (Dry Weight)
Percent Moisture: 12.25%
pH: NR
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	35 U	78-87-5	1,2-Dichloropropane	6.5 U
74-83-9	Bromomethane	29 U	10061-01-5	cis-1,3-Dichloropropene	18 U
75-01-4	Vinyl Chloride	19 U	79-01-6	Trichloroethene	5.6 U
75-00-3	Chloroethane	31 U	124-48-1	Dibromochloromethane	6.5 U
75-09-2	**Methylene Chloride**	**39 B**	79-00-5	1,1,2-Trichloroethane	6.5 U
67-64-1	Acetone	64 U	**71-43-2**	**Benzene**	**14**
75-15-0	Carbon Disulfide	11 U	10061-02-6	Trans-1,3-Dichloropropene	17 U
75-35-4	1,1-Dichloroethene	6.5 U	110-75-8	2-Chloroethylvinylether	25 U
75-34-3	1,1-Dichloroethane	5.6 U	75-25-2	Bromoform	23 U
540-59-0	1,2-Dichloroethene (Total)	7.4 U	108-10-1	4-Methyl-2-Pentanone	32 U
67-66-3	Chloroform	10 U	591-78-6	2-Hexanone	30 U
107-06-2	1,2-Dichloroethane	4.6 U	127-18-4	Tetrachloroethene	4.6 U
78-93-3	2-Butanone	57 U	79-34-5	1,1,2,2-Tetrachloroethane	25 U
71-55-6	1,1,1-Trichloroethane	5.6 U	108-88-3	Toluene	7.4 U
56-23-5	Carbon Tetrachloride	8.3 U	108-90-7	Chlorobenzene	8.3 U
108-05-4	Vinyl Acetate	29 U	**100-41-4**	**Ethylbenzene**	**82**
75-27-4	Bromodichloromethane	2.8 U	100-42-5	Styrene	10 U
77-69-4	Trichlorofluoromethane	9.3 U	**1330-20-7**	**Total Xylenes**	**51 M**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				9.3 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.3%
Bromofluorobenzene	77.1%
d4-1,2-Dichloroethane	89.9%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: CP107-2.5

Lab Sample ID: 2449H
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: Ryan N. Beh
Report Prepared: 01/10/89 MACA

Conc Level: Low
Instrument ID: FINN I
Date Analyzed: 01/03/89

Amount Analyzed: 5.23 gm (Dry Weight)
Percent Moisture: 5.28%
pH: 7.68
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	3.6 U	78-87-5	1,2-Dichloropropane	0.7 U
74-83-9	Bromomethane	3.0 U	10061-01-5	cis-1,3-Dichloropropene	1.8 U
75-01-4	Vinyl Chloride	1.9 U	79-01-6	Trichloroethene	0.6 U
75-00-3	Chloroethane	3.2 U	124-48-1	Dibromochloromethane	0.7 U
75-09-2	Methylene Chloride	3.3 U	79-00-5	1,1,2-Trichloroethane	0.7 U
67-64-1	Acetone	6.6 U	71-43-2	Benzene	1.0 U
75-15-0	Carbon Disulfide	1.1 U	10061-02-6	Trans-1,3-Dichloropropene	1.7 U
75-35-4	1,1-Dichloroethene	0.7 U	110-75-8	2-Chloroethylvinylether	2.6 U
75-34-3	1,1-Dichloroethane	0.6 U	75-25-2	Bromoform	2.4 U
540-59-0	1,2-Dichloroethene (Total)	0.8 U	108-10-1	4-Methyl-2-Pentanone	3.3 U
67-66-3	Chloroform	1.1 U	591-78-6	2-Hexanone	3.1 U
107-06-2	1,2-Dichloroethane	0.5 U	127-18-4	Tetrachloroethene	0.5 U
78-93-3	2-Butanone	5.9 U	79-34-5	1,1,2,2-Tetrachloroethane	2.6 U
71-55-6	1,1,1-Trichloroethane	0.6 U	108-88-3	Toluene	0.8 U
56-23-5	Carbon Tetrachloride	0.9 U	108-90-7	Chlorobenzene	0.9 U
108-05-4	Vinyl Acetate	3.0 U	100-41-4	Ethylbenzene	0.8 U
75-27-4	Bromodichloromethane	0.3 U	100-42-5	Styrene	1.1 U
77-69-4	Trichlorofluoromethane	1.0 U	1330-20-7	Total Xylenes	1.7 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				1.0 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.0%
Bromofluorobenzene	93.1%
d4-1,2-Dichloroethane	96.5%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: CP107-15

Lab Sample ID: 24491
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: Ryan N. Weber
Report Prepared 01/10/89 MACA

Conc Level: Medium
Instrument ID: FINN I
Date Analyzed: 01/03/89

Amount Analyzed: 0.034 gm (Dry Weight)
Percent Moisture: 15.87%
pH: 7.81
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	560 U	78-87-5	1,2-Dichloropropane	100 U
74-83-9	Bromomethane	460 U	10061-01-5	cis-1,3-Dichloropropene	280 U
75-01-4	Vinyl Chloride	290 U	79-01-6	Trichloroethene	88 U
75-00-3	Chloroethane	490 U	124-48-1	Dibromochloromethane	100 U
75-09-2	Methylene Chloride	510 U	79-00-5	1,1,2-Trichloroethane	100 U
67-64-1	Acetone	1000 U	71-43-2	Benzene	150 U
75-15-0	Carbon Disulfide	180 U	10061-02-6	Trans-1,3-Dichloropropene	260 U
75-35-4	1,1-Dichloroethene	100 U	110-75-8	2-Chloroethylvinylether	400 U
75-34-3	1,1-Dichloroethane	88 U	75-25-2	Bromoform	370 U
540-59-0	1,2-Dichloroethene (Total)	120 U	108-10-1	4-Methyl-2-Pentanone	510 U
67-66-3	Chloroform	160 U	591-78-6	2-Hexanone	470 U
107-06-2	1,2-Dichloroethane	74 U	127-18-4	Tetrachloroethene	74 U
78-93-3	2-Butanone	910 U	79-34-5	1,1,2,2-Tetrachloroethane	400 U
71-55-6	1,1,1-Trichloroethane	88 U	108-88-3	Toluene	120 U
56-23-5	Carbon Tetrachloride	130 U	108-90-7	Chlorobenzene	130 U
108-05-4	Vinyl Acetate	460 U	100-41-4	Ethylbenzene	120 U
75-27-4	Bromodichloromethane	44 U	100-42-5	Styrene	160 U
77-69-4	Trichlorofluoromethane	150 U	1330-20-7	Total Xylenes	260 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				150 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.3%
Bromofluorobenzene	95.1%
d4-1,2-Dichloroethane	97.1%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but [illegible]

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: CP107-15
RERUN

Lab Sample ID: 24491
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: Glen N. Cohen
Report Prepared: 01/10/89 MACA

Conc Level: Low
Instrument ID: FINN I
Date Analyzed: 01/04/89

Amount Analyzed: 0.87 gm (Dry Weight)
Percent Moisture: 15.87%
pH: 7.81
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	22 U	78-87-5	1,2-Dichloropropane	4.0 U
74-83-9	Bromomethane	18 U	10061-01-5	cis-1,3-Dichloropropene	11 U
75-01-4	Vinyl Chloride	12 U	79-01-6	Trichloroethene	3.4 U
75-00-3	Chloroethane	19 U	124-48-1	Dibromochloromethane	4.0 U
75-09-2	**Methylene Chloride**	**69 B**	79-00-5	1,1,2-Trichloroethane	4.0 U
67-64-1	Acetone	40 U	71-43-2	Benzene	5.7 U
75-15-0	Carbon Disulfide	6.9 U	10061-02-6	Trans-1,3-Dichloropropene	10 U
75-35-4	1,1-Dichloroethene	4.0 U	110-75-8	2-Chloroethylvinylether	16 U
75-34-3	1,1-Dichloroethane	3.4 U	75-25-2	Bromoform	14 U
540-59-0	1,2-Dichloroethene (Total)	4.6 U	108-10-1	4-Methyl-2-Pentanone	20 U
67-66-3	Chloroform	6.3 U	591-78-6	2-Hexanone	18 U
107-06-2	1,2-Dichloroethane	2.9 U	127-18-4	Tetrachloroethene	2.9 U
78-93-3	2-Butanone	36 U	79-34-5	1,1,2,2-Tetrachloroethane	16 U
71-55-6	1,1,1-Trichloroethane	3.4 U	108-88-3	Toluene	4.6 U
56-23-5	Carbon Tetrachloride	5.2 U	108-90-7	Chlorobenzene	5.2 U
108-05-4	Vinyl Acetate	18 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	1.7 U	100-42-5	Styrene	6.3 U
77-69-4	Trichlorofluoromethane	5.7 U	1330-20-7	Total Xylenes	10 U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				5.7 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	97.1%
Bromofluorobenzene	96.9%
d4-1,2-Dichloroethane	94.6%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters.

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ORGANICS ANALYSIS DATA SHEET - METHOD 8240

Sample No: CP107-6.5

Lab Sample ID: 2449J
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Data Release Authorized: Brian N. Arbe
Report Prepared 01/10/89 MACA

Conc Level: Medium
Instrument ID: FINN I
Date Analyzed: 01/03/89

Amount Analyzed: 0.035 gm (Dry Weight)
Percent Moisture: 13.24%
pH: 7.63
Conc/Dil Factor: 1:1

CAS Number		µg/Kg	CAS Number		µg/Kg
74-87-3	Chloromethane	540 U	78-87-5	1,2-Dichloropropane	100 U
74-83-9	Bromomethane	440 U	10061-01-5	cis-1,3-Dichloropropene	270 U
75-01-4	Vinyl Chloride	290 U	79-01-6	Trichloroethene	86 U
75-00-3	Chloroethane	470 U	124-48-1	Dibromochloromethane	100 U
75-09-2	Methylene Chloride	500 U	79-00-5	1,1,2-Trichloroethane	100 U
67-64-1	Acetone	1000 U	71-43-2	Benzene	140 U
75-15-0	Carbon Disulfide	170 U	10061-02-6	Trans-1,3-Dichloropropene	260 U
75-35-4	1,1-Dichloroethene	100 U	110-75-8	2-Chloroethylvinylether	390 U
75-34-3	1,1-Dichloroethane	86 U	75-25-2	Bromoform	360 U
540-59-0	1,2-Dichloroethene (Total)	110 U	108-10-1	4-Methyl-2-Pentanone	500 U
67-66-3	Chloroform	160 U	591-78-6	2-Hexanone	460 U
107-06-2	1,2-Dichloroethane	71 U	127-18-4	Tetrachloroethene	71 U
78-93-3	2-Butanone	890 U	79-34-5	1,1,2,2-Tetrachloroethane	390 U
71-55-6	1,1,1-Trichloroethane	86 U	108-88-3	Toluene	110 U
56-23-5	Carbon Tetrachloride	130 U	108-90-7	Chlorobenzene	130 U
108-05-4	Vinyl Acetate	440 U	**100-41-4**	**Ethylbenzene**	**400**
75-27-4	Bromodichloromethane	43 U	100-42-5	Styrene	160 U
77-69-4	Trichlorofluoromethane	140 U	**1330-20-7**	**Total Xylenes**	**87 J**
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane				140 U

***Volatile Organic Surrogate Recoveries**

d8-Toluene	96.8%
Bromofluorobenzene	105%
d4-1,2-Dichloroethane	100%

*Surrogate recoveries indicate the validity of a given analysis

Data Reporting Qualifiers

Value	If the result is a value greater than or equal to the detection limit, report the value.
U	Indicates compound was analyzed for but not detected at the given detection limit.
J	Indicates an estimated value when result is less than specified detection limit.
NR	Analysis not required
B	This flag is used when the analyte is found in the blank as well as a sample. Indicates possible/probable blank contamination.
K	This flag is used when quantitated value falls above the limit of the calibration curve and dilution should be run.
M	Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match parameters

ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: CP107-0-5 [Composite]

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Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

Lab Sample ID: 2449AD
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Date Release Authorized: DR Mitchell
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 29.60
Final Volume: 1.0 ml
Percent Moisture: 7.65%
pH: NR
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/04/89
Date Analyzed: 01/10/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	68 U
111-44-4	bis(2-Chloroethyl)Ether	68 U
95-57-8	2-Chlorophenol	68 U
541-73-1	1,3-Dichlorobenzene	68 U
106-46-7	1,4-Dichlorobenzene	68 U
100-51-6	Benzyl Alcohol	340 U
95-50-1	1,2-Dichlorobenzene	68 U
95-48-7	2-Methylphenol	68 U
39638-32-9	bis(2-chloroisopropyl)Ether	68 U
106-44-5	4-Methylphenol	68 U
621-64-7	N-Nitroso-Di-n-Propylamine	68 U
67-72-1	Hexachloroethane	140 U
98-95-3	Nitrobenzene	68 U
78-59-1	Isophorone	68 U
88-75-5	2-Nitrophenol	340 U
105-67-9	2,4-Dimethylphenol	140 U
65-85-0	Benzoic Acid	680 U
111-91-1	bis(2-Chloroethoxy)Methane	68 U
120-83-2	2,4-Dichlorophenol	203 U
120-82-1	1,2,4-Trichlorobenzene	68 U
91-20-3	Naphthalene	68 U
106-47-8	4-Chloroaniline	203 U
87-68-3	Hexachlorobutadiene	140 U
59-50-7	4-Chloro-3-Methylphenol	140 U
91-57-6	**2-Methylnaphthalene**	**9700**
77-47-4	Hexachlorocyclopentadiene	340 U
88-06-2	2,4,6-Trichlorophenol	340 U
95-95-4	2,4,5-Trichlorophenol	340 U
91-58-7	2-Chloronaphthalene	68 U
88-74-4	2-Nitroaniline	340 U
131-11-3	Dimethyl Phthalate	68 U
208-96-8	Acenaphthylene	68 U
99-09-2	3-Nitroaniline	340 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**570**
51-28-5	2,4-Dinitrophenol	680 U
100-02-7	4-Nitrophenol	340 U
132-64-9	**Dibenzofuran**	**1000**
121-14-2	2,4-Dinitrotoluene	340 U
606-20-2	2,6-Dinitrotoluene	340 U
84-66-2	Diethylphthalate	68 U
7005-72-3	4-Chlorophenyl-phenylether	68 U
86-73-7	**Fluorene**	**1900**
100-01-6	4-Nitroaniline	340 U
534-52-1	4,6-Dinitro-2-Methylphenol	680 U
86-30-6	N-Nitrosodiphenylamine(1)	68 U
101-55-3	4-Bromophenyl-phenylether	68 U
118-74-1	Hexachlorobenzene	68 U
87-86-5	Pentachlorophenol	340 U
85-01-8	**Phenanthrene**	**3400**
120-12-7	Anthracene	68 U
84-74-2	Di-n-Butylphthalate	68 U
206-44-0	**Fluoranthene**	**510**
129-00-0	**Pyrene**	**450**
85-68-7	Butylbenzylphthalate	68 U
91-94-1	3,3'-Dichlorobenzidine	340 U
56-55-3	**Benzo(a)Anthracene**	**160**
117-81-7	bis(2-Ethylhexyl)Phthalate	68 U
218-01-9	**Chrysene**	**210**
117-84-0	Di-n-Octyl Phthalate	68 U
205-99-2 **207-08-9**	**Benzo(b)Fluoranthene &** **Benzo(k)Fluoranthene**	**300**
50-32-8	**Benzo(a)Pyrene**	**130**
193-39-5	**Indeno(1,2,3-cd)Pyrene**	**96**
53-70-3	**Dibenz(a,h)Anthracene**	**30 J**
191-24-2	**Benzo(ghi)Perylene**	**69**

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	79.4%
2-Fluorobiphenyl	91.3%
d14-p-Terphenyl	119%

***Acid surrogate recoveries**

d5-Phenol	90.5%
2-Fluorophenol	83.9%
2,4,6-Tribromophenol	83.6%

ORGANICS ANALYSIS DATA SHEET - METHOD 8270 **Sample No: CP-107-6-10 [Composite]**

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Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

Lab Sample ID: 2449EG
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Date Release Authorized: DR Mitchell
Report Revised: 03/21/89 MAC:A

Dry weight extracted (gm): 27.02
Final Volume: 1.0 ml
Percent Moisture: 12.25%
pH: NR
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/04/89
Date Analyzed: 01/10/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	74 U
111-44-4	bis(2-Chloroethyl)Ether	74 U
95-57-8	2-Chlorophenol	74 U
541-73-1	1,3-Dichlorobenzene	74 U
106-46-7	1,4-Dichlorobenzene	74 U
100-51-6	Benzyl Alcohol	370 U
95-50-1	1,2-Dichlorobenzene	74 U
95-48-7	2-Methylphenol	74 U
39638-32-9	bis(2-chloroisopropyl)Ether	74 U
106-44-5	4-Methylphenol	74 U
621-64-7	N-Nitroso-Di-n-Propylamine	74 U
67-72-1	Hexachloroethane	150 U
98-95-3	Nitrobenzene	74 U
78-59-1	Isophorone	74 U
88-75-5	2-Nitrophenol	370 U
105-67-9	2,4-Dimethylphenol	150 U
65-85-0	Benzoic Acid	740 U
111-91-1	bis(2-Chloroethoxy)Methane	74 U
120-83-2	2,4-Dichlorophenol	222 U
120-82-1	1,2,4-Trichlorobenzene	74 U
91-20-3	Naphthalene	74 U
106-47-8	4-Chloroaniline	222 U
87-68-3	Hexachlorobutadiene	150 U
59-50-7	4-Chloro-3-Methylphenol	150 U
91-57-6	**2-Methylnaphthalene**	**12000**
77-47-4	Hexachlorocyclopentadiene	370 U
88-06-2	2,4,6-Trichlorophenol	370 U
95-95-4	2,4,5-Trichlorophenol	370 U
91-58-7	2-Chloronaphthalene	74 U
88-74-4	2-Nitroaniline	370 U
131-11-3	Dimethyl Phthalate	74 U
208-96-8	Acenaphthylene	74 U
99-09-2	3-Nitroaniline	370 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**850**
51-28-5	2,4-Dinitrophenol	740 U
100-02-7	4-Nitrophenol	370 U
132-64-9	**Dibenzofuran**	**2000**
121-14-2	2,4-Dinitrotoluene	370 U
606-20-2	2,6-Dinitrotoluene	370 U
84-66-2	Diethylphthalate	74 U
7005-72-3	4-Chlorophenyl-phenylether	74 U
86-73-7	**Fluorene**	**4200**
100-01-6	4-Nitroaniline	370 U
534-52-1	4,6-Dinitro-2-Methylphenol	740 U
86-30-6	N-Nitrosodiphenylamine(1)	74 U
101-55-3	4-Bromophenyl-phenylether	74 U
118-74-1	Hexachlorobenzene	74 U
87-86-5	Pentachlorophenol	370 U
85-01-8	**Phenanthrene**	**6100**
120-12-7	**Anthracene**	**290**
84-74-2	Di-n-Butylphthalate	74 U
206-44-0	**Fluoranthene**	**960**
129-00-0	**Pyrene**	**860**
85-68-7	Butylbenzylphthalate	74 U
91-94-1	3,3'-Dichlorobenzidine	370 U
56-55-3	**Benzo(a)Anthracene**	**210**
117-81-7	bis(2-Ethylhexyl)Phthalate	74 U
218-01-9	**Chrysene**	**270**
117-84-0	Di-n-Octyl Phthalate	74 U
205-99-2	**Benzo(b)Fluoranthene &**	
207-08-9	**Benzo(k)Fluoranthene**	**230**
50-32-8	**Benzo(a)Pyrene**	**130**
193-39-5	**Indeno(1,2,3-cd)Pyrene**	**44 J**
53-70-3	Dibenz(a,h)Anthracene	74 U
191-24-2	**Benzo(ghi)Perylene**	**37 J**

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	95.9%
2-Fluorobiphenyl	108%
d14-p-Terphenyl	131%

***Acid surrogate recoveries**

d5-Phenol	93.1%
2-Fluorophenol	88.2%
2,4,6-Tribromophenol	97.2%

ORGANICS ANALYSIS DATA SHEET - METHOD 8270 Sample No: CP107-2.5

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333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

Lab Sample ID: 2449H
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Date Release Authorized: DR Mitchell
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 31.88
Final Volume: 1.0 ml
Percent Moisture: 5.28%
pH: 7.68
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/04/89
Date Analyzed: 01/12/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	63 U
111-44-4	bis(2-Chloroethyl)Ether	63 U
95-57-8	2-Chlorophenol	63 U
541-73-1	1,3-Dichlorobenzene	63 U
106-46-7	1,4-Dichlorobenzene	63 U
100-51-6	Benzyl Alcohol	310 U
95-50-1	1,2-Dichlorobenzene	63 U
95-48-7	2-Methylphenol	63 U
39638-32-9	bis(2-chloroisopropyl)Ether	63 U
106-44-5	4-Methylphenol	63 U
621-64-7	N-Nitroso-Di-n-Propylamine	63 U
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	63 U
78-59-1	Isophorone	63 U
88-75-5	2-Nitrophenol	310 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	630 U
111-91-1	bis(2-Chloroethoxy)Methane	63 U
120-83-2	2,4-Dichlorophenol	188 U
120-82-1	1,2,4-Trichlorobenzene	63 U
91-20-3	Naphthalene	63 U
106-47-8	4-Chloroaniline	188 U
87-68-3	Hexachlorobutadiene	130 U
59-50-7	4-Chloro-3-Methylphenol	130 U
91-57-6	2-Methylnaphthalene	63 U
77-47-4	Hexachlorocyclopentadiene	310 U
88-06-2	2,4,6-Trichlorophenol	310 U
95-95-4	2,4,5-Trichlorophenol	310 U
91-58-7	2-Chloronaphthalene	63 U
88-74-4	2-Nitroaniline	310 U
131-11-3	Dimethyl Phthalate	63 U
208-96-8	Acenaphthylene	63 U
99-09-2	3-Nitroaniline	310 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	63 U
51-28-5	2,4-Dinitrophenol	630 U
100-02-7	4-Nitrophenol	310 U
132-64-9	Dibenzofuran	63 U
121-14-2	2,4-Dinitrotoluene	310 U
606-20-2	2,6-Dinitrotoluene	310 U
84-66-2	Diethylphthalate	63 U
7005-72-3	4-Chlorophenyl-phenylether	63 U
86-73-7	Fluorene	63 U
100-01-6	4-Nitroaniline	310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630 U
86-30-6	N-Nitrosodiphenylamine(1)	63 U
101-55-3	4-Bromophenyl-phenylether	63 U
118-74-1	Hexachlorobenzene	63 U
87-86-5	Pentachlorophenol	310 U
85-01-8	Phenanthrene	63 U
120-12-7	Anthracene	63 U
84-74-2	Di-n-Butylphthalate	63 U
206-44-0	**Fluoranthene**	**49 J**
129-00-0	**Pyrene**	**67**
85-68-7	Butylbenzylphthalate	63 U
91-94-1	3,3'-Dichlorobenzidine	310 U
56-55-3	**Benzo(a)Anthracene**	**110**
117-81-7	bis(2-Ethylhexyl)Phthalate	63 U
218-01-9	**Chrysene**	**170**
117-84-0	Di-n-Octyl Phthalate	63 U
205-99-2	**Benzo(b)Fluoranthene &**	
207-08-9	**Benzo(k)Fluoranthene**	**480**
50-32-8	**Benzo(a)Pyrene**	**200**
193-39-5	**Indeno(1,2,3-cd)Pyrene**	**150**
53-70-3	Dibenz(a,h)Anthracene	63 U
191-24-2	**Benzo(ghi)Perylene**	**78**

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	43.0%
2-Fluorobiphenyl	61.3%
d14-p-Terphenyl	61.1%

***Acid surrogate recoveries**

d5-Phenol	52.7%
2-Fluorophenol	51.7%
2,4,6-Tribromophenol	58.3%

ORGANICS ANALYSIS DATA SHEET - METHOD 8270 **Sample No: CP107-2.5 MS**

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Analytical Chemists & Consultants

333 Ninth Ave. North
Seattle, Wa 98109-5187
(206) 621-6490

Lab Sample ID: 2449HMS
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Date Release Authorized: DR Mitchell
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 31.21
Final Volume: 1.0 ml
Percent Moisture: 5.28%
pH: 7.68
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/04/89
Date Analyzed: 01/12/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	-
111-44-4	bis(2-Chloroethyl)Ether	64 U
95-57-8	2-Chlorophenol	-
541-73-1	1,3-Dichlorobenzene	64 U
106-46-7	1,4-Dichlorobenzene	-
100-51-6	Benzyl Alcohol	320 U
95-50-1	1,2-Dichlorobenzene	64 U
95-48-7	2-Methylphenol	64 U
39638-32-9	bis(2-chloroisopropyl)Ether	64 U
106-44-5	4-Methylphenol	64 U
621-64-7	N-Nitroso-Di-n-Propylamine	-
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	64 U
78-59-1	Isophorone	64 U
88-75-5	2-Nitrophenol	320 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	640 U
111-91-1	bis(2-Chloroethoxy)Methane	64 U
120-83-2	2,4-Dichlorophenol	190 U
120-82-1	1,2,4-Trichlorobenzene	-
91-20-3	Naphthalene	64 U
106-47-8	4-Chloroaniline	190 U
87-68-3	Hexachlorobutadiene	130 U
59-50-7	4-Chloro-3-Methylphenol	-
91-57-6	2-Methylnaphthalene	64 U
77-47-4	Hexachlorocyclopentadiene	320 U
88-06-2	2,4,6-Trichlorophenol	320 U
95-95-4	2,4,5-Trichlorophenol	320 U
91-58-7	2-Chloronaphthalene	64 U
88-74-4	2-Nitroaniline	320 U
131-11-3	Dimethyl Phthalate	64 U
208-96-8	Acenaphthylene	64 U
99-09-2	3-Nitroaniline	320 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	-
51-28-5	2,4-Dinitrophenol	640 U
100-02-7	4-Nitrophenol	-
132-64-9	Dibenzofuran	64 U
121-14-2	2,4-Dinitrotoluene	-
606-20-2	2,6-Dinitrotoluene	320 U
84-66-2	Diethylphthalate	64 U
7005-72-3	4-Chlorophenyl-phenylether	64 U
86-73-7	Fluorene	64 U
100-01-6	4-Nitroaniline	320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640 U
86-30-6	N-Nitrosodiphenylamine(1)	64 U
101-55-3	4-Bromophenyl-phenylether	64 U
118-74-1	Hexachlorobenzene	64 U
87-86-5	Pentachlorophenol	-
85-01-8	Phenanthrene	64 U
120-12-7	Anthracene	64 U
84-74-2	Di-n-Butylphthalate	64 U
206-44-0	**Fluoranthene**	**51 J**
129-00-0	Pyrene	-
85-68-7	Butylbenzylphthalate	64 U
91-94-1	3,3'-Dichlorobenzidine	320 U
56-55-3	**Benzo(a)Anthracene**	**48 J**
117-81-7	bis(2-Ethylhexyl)Phthalate	64 U
218-01-9	**Chrysene**	**82**
117-84-0	Di-n-Octyl Phthalate	64 U
205-99-2	**Benzo(b)Fluoranthene &**	
207-08-9	**Benzo(k)Fluoranthene**	**250**
50-32-8	**Benzo(a)Pyrene**	**110**
193-39-5	**Indeno(1,2,3-cd)Pyrene**	**69 M**
53-70-3	Dibenz(a,h)Anthracene	64 U
191-24-2	**Benzo(ghi)Perylene**	**42 M**

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	52.4%
2-Fluorobiphenyl	70.2%
d14-p-Terphenyl	105%

***Acid surrogate recoveries**

d5-Phenol	73.6%
2-Fluorophenol	53.7%
2,4,6-Tribromophenol	74.3%

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

333 Ninth Ave. North
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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: CP107-2.5 MSD

Lab Sample ID: 2449HMSD
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Date Release Authorized: DR Mitchell
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 30.43
Final Volume: 1.0 ml
Percent Moisture: 5.28%
pH: 7.68
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/04/89
Date Analyzed: 01/12/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	-
111-44-4	bis(2-Chloroethyl)Ether	66 U
95-57-8	2-Chlorophenol	-
541-73-1	1,3-Dichlorobenzene	66 U
106-46-7	1,4-Dichlorobenzene	-
100-51-6	Benzyl Alcohol	330 U
95-50-1	1,2-Dichlorobenzene	66 U
95-48-7	2-Methylphenol	66 U
39638-32-9	bis(2-chloroisopropyl)Ether	66 U
106-44-5	4-Methylphenol	66 U
621-64-7	N-Nitroso-Di-n-Propylamine	-
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	66 U
78-59-1	Isophorone	66 U
88-75-5	2-Nitrophenol	330 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	660 U
111-91-1	bis(2-Chloroethoxy)Methane	66 U
120-83-2	2,4-Dichlorophenol	197 U
120-82-1	1,2,4-Trichlorobenzene	-
91-20-3	Naphthalene	66 U
106-47-8	4-Chloroaniline	197 U
87-68-3	Hexachlorobutadiene	130 U
59-50-7	4-Chloro-3-Methylphenol	-
91-57-6	2-Methylnaphthalene	66 U
77-47-4	Hexachlorocyclopentadiene	330 U
88-06-2	2,4,6-Trichlorophenol	330 U
95-95-4	2,4,5-Trichlorophenol	330 U
91-58-7	2-Chloronaphthalene	66 U
88-74-4	2-Nitroaniline	330 U
131-11-3	Dimethyl Phthalate	66 U
208-96-8	Acenaphthylene	66 U
99-09-2	3-Nitroaniline	330 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	-
51-28-5	2,4-Dinitrophenol	660 U
100-02-7	4-Nitrophenol	-
132-64-9	Dibenzofuran	66 U
121-14-2	2,4-Dinitrotoluene	-
606-20-2	2,6-Dinitrotoluene	330 U
84-66-2	Diethylphthalate	66 U
7005-72-3	4-Chlorophenyl-phenylether	66 U
86-73-7	Fluorene	66 U
100-01-6	4-Nitroaniline	330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660 U
86-30-6	N-Nitrosodiphenylamine(1)	66 U
101-55-3	4-Bromophenyl-phenylether	66 U
118-74-1	Hexachlorobenzene	66 U
87-86-5	Pentachlorophenol	-
85-01-8	Phenanthrene	66 U
120-12-7	Anthracene	66 U
84-74-2	Di-n-Butylphthalate	66 U
206-44-0	**Fluoranthene**	**45 J**
129-00-0	Pyrene	-
85-68-7	Butylbenzylphthalate	66 U
91-94-1	3,3'-Dichlorobenzidine	330 U
56-55-3	**Benzo(a)Anthracene**	**49 J**
117-81-7	bis(2-Ethylhexyl)Phthalate	66 U
218-01-9	**Chrysene**	**85**
117-84-0	Di-n-Octyl Phthalate	66 U
205-99-2	**Benzo(b)Fluoranthene &**	
207-08-9	**Benzo(k)Fluoranthene**	**230**
50-32-8	**Benzo(a)Pyrene**	**100**
193-39-5	**Indeno(1,2,3-cd)Pyrene**	**65 J**
53-70-3	Dibenz(a,h)Anthracene	66 U
191-24-2	**Benzo(ghi)Perylene**	**35 J**

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	52.3%
2-Fluorobiphenyl	71.5%
d14-p-Terphenyl	79.9%

***Acid surrogate recoveries**

d5-Phenol	71.8%
2-Fluorophenol	56.0%
2,4,6-Tribromophenol	73.6%

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Seattle, Wa 98109-5187
(206) 621-6490

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ARI Job No: 2449

Client: Sweet Edwards
Project: S940702
Pier 91

Sample No: CP107-2.5

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC	QC LIMITS REC
Phenol	13000	0.0	8800	67.7	26-90
2-Chlorophenol	13000	0.0	9400	72.3	25-102
1,4-Dichlorobenzene	6500	0.0	3400	52.3	28-104
N-Nitroso-Di-n-Propylamine	6500	0.0	3700	56.9	41-126
1,2,4-Trichlorobenzene	6500	0.0	4200	64.6	38-107
4-Chloro-3-Methylphenol	13000	0.0	11000	84.6	26-103
Acenaphthene	6500	0.0	4300	66.2	31-137
4-Nitrophenol	13000	0.0	9100	70.0	11-114
2,4-Dinitrotoluene	6500	0.0	5500	84.6	28-89
Pentachlorophenol	13000	0.0	9300	71.5	17-109
Pyrene	6500	67	5800	88.2	35-142

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC
Phenol	13000	8400	64.6	4.7	35	26-90
2-Chlorophenol	13000	9500	73.1	-1.1	50	25-102
1,4-Dichlorobenzene	6500	3800	58.5	-11	27	28-104
N-Nitroso-Di-n-Propylamine	6500	3700	56.9	0.0	38	41-126
1,2,4-Trichlorobenzene	6500	4100	63.1	2.3	23	38-107
4-Chloro-3-Methylphenol	13000	10000	76.9	9.5	33	26-103
Acenaphthene	6500	4700	72.3	-8.8	19	31-137
4-Nitrophenol	13000	9500	73.1	-4.3	50	11-114
2,4-Dinitrotoluene	6500	5800	89.2	-5.3	47	28-89
Pentachlorophenol	13000	8900	68.5	4.3	47	17-109
Pyrene	6500	4200	63.6	32	36	35-142

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

Asterisked values outside QC Limits

Comments: 30.82 gram dry weight sample size.

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(206) 621-6490

ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: CP107-6.5

Lab Sample ID: 2449J
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Date Release Authorized: DR Mitchell
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 21.86
Final Volume: 5.0 ml
Percent Moisture: 13.24%
pH: 7.63
Conc/Dilution Factor: 1 to 5
Total Dilution: 1 to 10

Date Extracted: 01/04/89
Date Analyzed: 01/13/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	460 U
111-44-4	bis(2-Chloroethyl)Ether	460 U
95-57-8	2-Chlorophenol	460 U
541-73-1	1,3-Dichlorobenzene	460 U
106-46-7	1,4-Dichlorobenzene	460 U
100-51-6	Benzyl Alcohol	2300 U
95-50-1	1,2-Dichlorobenzene	460 U
95-48-7	2-Methylphenol	460 U
39638-32-9	bis(2-chloroisopropyl)Ether	460 U
106-44-5	4-Methylphenol	460 U
621-64-7	N-Nitroso-Di-n-Propylamine	460 U
67-72-1	Hexachloroethane	910 U
98-95-3	Nitrobenzene	460 U
78-59-1	Isophorone	460 U
88-75-5	2-Nitrophenol	2300 U
105-67-9	2,4-Dimethylphenol	910 U
65-85-0	Benzoic Acid	4600 U
111-91-1	bis(2-Chloroethoxy)Methane	460 U
120-83-2	2,4-Dichlorophenol	1400 U
120-82-1	1,2,4-Trichlorobenzene	460 U
91-20-3	Naphthalene	460 U
106-47-8	4-Chloroaniline	1400 U
87-68-3	Hexachlorobutadiene	910 U
59-50-7	4-Chloro-3-Methylphenol	910 U
91-57-6	**2-Methylnaphthalene**	**29000**
77-47-4	Hexachlorocyclopentadiene	2300 U
88-06-2	2,4,6-Trichlorophenol	2300 U
95-95-4	2,4,5-Trichlorophenol	2300 U
91-58-7	2-Chloronaphthalene	460 U
88-74-4	2-Nitroaniline	2300 U
131-11-3	Dimethyl Phthalate	460 U
208-96-8	Acenaphthylene	460 U
99-09-2	3-Nitroaniline	2300 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**700**
51-28-5	2,4-Dinitrophenol	4600 U
100-02-7	4-Nitrophenol	2300 U
132-64-9	**Dibenzofuran**	**2500**
121-14-2	2,4-Dinitrotoluene	2300 U
606-20-2	2,6-Dinitrotoluene	2300 U
84-66-2	Diethylphthalate	460 U
7005-72-3	4-Chlorophenyl-phenylether	460 U
86-73-7	**Fluorene**	**6100**
100-01-6	4-Nitroaniline	2300 U
534-52-1	4,6-Dinitro-2-Methylphenol	4600 U
86-30-6	N-Nitrosodiphenylamine(1)	460 U
101-55-3	4-Bromophenyl-phenylether	460 U
118-74-1	Hexachlorobenzene	460 U
87-86-5	Pentachlorophenol	2300 U
85-01-8	**Phenanthrene**	**9000**
120-12-7	**Anthracene**	**260 M**
84-74-2	Di-n-Butylphthalate	460 U
206-44-0	**Fluoranthene**	**1000**
129-00-0	**Pyrene**	**640**
85-68-7	Butylbenzylphthalate	460 U
91-94-1	3,3'-Dichlorobenzidine	2300 U
56-55-3	**Benzo(a)Anthracene**	**320 J**
117-81-7	bis(2-Ethylhexyl)Phthalate	460 U
218-01-9	**Chrysene**	**320 J**
117-84-0	Di-n-Octyl Phthalate	460 U
205-99-2	**Benzo(b)Fluoranthene &**	
207-08-9	**Benzo(k)Fluoranthene**	**480**
50-32-8	Benzo(a)Pyrene	460 U
193-39-5	**Indeno(1,2,3-cd)Pyrene**	**140 M**
53-70-3	**Dibenz(a,h)Anthracene**	**420 M**
191-24-2	**Benzo(ghi)Perylene**	**390 M**

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	40.9%
2-Fluorobiphenyl	129%
d14-p-Terphenyl	76.5%

***Acid surrogate recoveries**

d5-Phenol	78.5%
2-Fluorophenol	77.6%
2,4,6-Tribromophenol	57.7%

ANALYTICAL RESOURCES INCORPORATED

Analytical Chemists & Consultants

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: CP107-15

Lab Sample ID: 24491
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Date Release Authorized: Brian N. Sabe
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 31.76
Final Volume: 1.0 ml
Percent Moisture: 15.87%
pH: 7.81
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/04/89
Date Analyzed: 01/10/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN IV

CAS Number		µg/Kg
108-95-2	Phenol	63 U
111-44-4	bis(2-Chloroethyl)Ether	63 U
95-57-8	2-Chlorophenol	63 U
541-73-1	1,3-Dichlorobenzene	63 U
106-46-7	1,4-Dichlorobenzene	63 U
100-51-6	Benzyl Alcohol	310 U
95-50-1	1,2-Dichlorobenzene	63 U
95-48-7	2-Methylphenol	63 U
39638-32-9	bis(2-chloroisopropyl)Ether	63 U
106-44-5	4-Methylphenol	63 U
621-64-7	N-Nitroso-Di-n-Propylamine	63 U
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	63 U
78-59-1	Isophorone	63 U
88-75-5	2-Nitrophenol	310 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	630 U
111-91-1	bis(2-Chloroethoxy)Methane	63 U
120-83-2	2,4-Dichlorophenol	189 U
120-82-1	1,2,4-Trichlorobenzene	63 U
91-20-3	Naphthalene	63 U
106-47-8	4-Chloroaniline	189 U
87-68-3	Hexachlorobutadiene	130 U
59-50-7	4-Chloro-3-Methylphenol	130 U
91-57-6	**2-Methylnaphthalene**	**200**
77-47-4	Hexachlorocyclopentadiene	310 U
88-06-2	2,4,6-Trichlorophenol	310 U
95-95-4	2,4,5-Trichlorophenol	310 U
91-58-7	2-Chloronaphthalene	63 U
88-74-4	2-Nitroaniline	310 U
131-11-3	Dimethyl Phthalate	63 U
208-96-8	Acenaphthylene	63 U
99-09-2	3-Nitroaniline	310 U

CAS Number		µg/Kg
83-32-9	**Acenaphthene**	**66**
51-28-5	2,4-Dinitrophenol	630 U
100-02-7	4-Nitrophenol	310 U
132-64-9	**Dibenzofuran**	**84**
121-14-2	2,4-Dinitrotoluene	310 U
606-20-2	2,6-Dinitrotoluene	310 U
84-66-2	Diethylphthalate	63 U
7005-72-3	4-Chlorophenyl-phenylether	63 U
86-73-7	**Fluorene**	**170**
100-01-6	4-Nitroaniline	310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630 U
86-30-6	N-Nitrosodiphenylamine(1)	63 U
101-55-3	4-Bromophenyl-phenylether	63 U
118-74-1	Hexachlorobenzene	63 U
87-86-5	Pentachlorophenol	310 U
85-01-8	**Phenanthrene**	**180**
120-12-7	Anthracene	63 U
84-74-2	Di-n-Butylphthalate	63 U
206-44-0	**Fluoranthene**	**39 J**
129-00-0	**Pyrene**	**47 J**
85-68-7	Butylbenzylphthalate	63 U
91-94-1	3,3'-Dichlorobenzidine	310 U
56-55-3	**Benzo(a)Anthracene**	**16 M**
117-81-7	bis(2-Ethylhexyl)Phthalate	63 U
218-01-9	**Chrysene**	**17 M**
117-84-0	Di-n-Octyl Phthalate	63 U
205-99-2	Benzo(b)Fluoranthene	63 U
207-08-9	Benzo(k)Fluoranthene	63 U
50-32-8	Benzo(a)Pyrene	63 U
193-39-5	Indeno(1,2,3-cd)Pyrene	63 U
53-70-3	Dibenz(a,h)Anthracene	63 U
191-24-2	Benzo(ghi)Perylene	63 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	73.2%
2-Fluorobiphenyl	90.4%
d14-p-Terphenyl	122%

***Acid surrogate recoveries**

d5-Phenol	77.4%
2-Fluorophenol	76.1%
2,4,6-Tribromophenol	86.2%

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ORGANICS ANALYSIS DATA SHEET - METHOD 8270

Sample No: Method Blank

Lab Sample ID: 2449MB
Sample Matrix: Soil/Sediments

QC Report No: 2449 - Sweet Edwards
Project: S940702
Pier 91
Date Received: 12/29/88

Date Release Authorized: DR Mitchell
Report Revised: 03/21/89 MAC: A

Dry weight extracted (gm): 30.00
Final Volume: 1.0 ml
Percent Moisture: NR
pH: NR
Conc/Dilution Factor: 1 to 1
Total Dilution: 1 to 2

Date Extracted: 01/04/89
Date Analyzed: 01/13/89
GPC Clean-up: YES (1 of 2)
Instrument ID: FINN II

CAS Number		µg/Kg
108-95-2	Phenol	67 U
111-44-4	bis(2-Chloroethyl)Ether	67 U
95-57-8	2-Chlorophenol	67 U
541-73-1	1,3-Dichlorobenzene	67 U
106-46-7	1,4-Dichlorobenzene	67 U
100-51-6	Benzyl Alcohol	330 U
95-50-1	1,2-Dichlorobenzene	67 U
95-48-7	2-Methylphenol	67 U
39638-32-9	bis(2-chloroisopropyl)Ether	67 U
106-44-5	4-Methylphenol	67 U
621-64-7	N-Nitroso-Di-n-Propylamine	67 U
67-72-1	Hexachloroethane	130 U
98-95-3	Nitrobenzene	67 U
78-59-1	Isophorone	67 U
88-75-5	2-Nitrophenol	330 U
105-67-9	2,4-Dimethylphenol	130 U
65-85-0	Benzoic Acid	670 U
111-91-1	bis(2-Chloroethoxy)Methane	67 U
120-83-2	2,4-Dichlorophenol	200 U
120-82-1	1,2,4-Trichlorobenzene	67 U
91-20-3	Naphthalene	67 U
106-47-8	4-Chloroaniline	200 U
87-68-3	Hexachlorobutadiene	130 U
59-50-7	4-Chloro-3-Methylphenol	130 U
91-57-6	2-Methylnaphthalene	67 U
77-47-4	Hexachlorocyclopentadiene	330 U
88-06-2	2,4,6-Trichlorophenol	330 U
95-95-4	2,4,5-Trichlorophenol	330 U
91-58-7	2-Chloronaphthalene	67 U
88-74-4	2-Nitroaniline	330 U
131-11-3	Dimethyl Phthalate	67 U
208-96-8	Acenaphthylene	67 U
99-09-2	3-Nitroaniline	330 U

CAS Number		µg/Kg
83-32-9	Acenaphthene	67 U
51-28-5	2,4-Dinitrophenol	670 U
100-02-7	4-Nitrophenol	330 U
132-64-9	Dibenzofuran	67 U
121-14-2	2,4-Dinitrotoluene	330 U
606-20-2	2,6-Dinitrotoluene	330 U
84-66-2	Diethylphthalate	67 U
7005-72-3	4-Chlorophenyl-phenylether	67 U
86-73-7	Fluorene	67 U
100-01-6	4-Nitroaniline	330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670 U
86-30-6	N-Nitrosodiphenylamine(1)	67 U
101-55-3	4-Bromophenyl-phenylether	67 U
118-74-1	Hexachlorobenzene	67 U
87-86-5	Pentachlorophenol	330 U
85-01-8	Phenanthrene	67 U
120-12-7	Anthracene	67 U
84-74-2	Di-n-Butylphthalate	67 U
206-44-0	Fluoranthene	67 U
129-00-0	Pyrene	67 U
85-68-7	Butylbenzylphthalate	67 U
91-94-1	3,3'-Dichlorobenzidine	330 U
56-55-3	Benzo(a)Anthracene	67 U
117-81-7	bis(2-Ethylhexyl)Phthalate	67 U
218-01-9	Chrysene	67 U
117-84-0	Di-n-Octyl Phthalate	67 U
205-99-2	Benzo(b)Fluoranthene	67 U
207-08-9	Benzo(k)Fluoranthene	67 U
50-32-8	Benzo(a)Pyrene	67 U
193-39-5	Indeno(1,2,3-cd)Pyrene	67 U
53-70-3	Dibenz(a,h)Anthracene	67 U
191-24-2	Benzo(ghi)Perylene	67 U

(1) Cannot be separated from diphenylamine

***Base/neutral surrogate recoveries**

d5-Nitrobenzene	74.4%
2-Fluorobiphenyl	87.8%
d14-p-Terphenyl	74.7%

***Acid surrogate recoveries**

d5-Phenol	84.4%
2-Fluorophenol	81.8%
2,4,6-Tribromophenol	71.1%